Fac/Perm/Co ID #	Date	Doc ID#
95-02	11/21/11	DIN 15619

Draper Aden Associates
Engineering • Surveying • Environmental Services

Letter of Transmittal

To: Ms. Elizabeth Werner
NC DENR
217 W. Jones St.
Raleigh, NC 27603

Date: 10/26/11
Project Number: 6520-39
Project Name: Watauga Landfill
Phone No.

cc: JV Potter, Watauga County (enc.); Deron Geouque, Watauga County (enc. - CD-ROM)

We are sending you via: **UPS Ground** ☒ Attached ☐ Under separate cover

☐ Shop Drawings ☐ Prints ☐ Plans ☐ Specifications ☐ Samples
☐ Copy of letter ☐ Plats ☐ Proposal ☐ Change Order ☐ Report
☐ Other: _____

Copies	Date	No.	Description
1			Groundwater & Surface Water Assessment Monitoring Report

These are transmitted as checked below:

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REMARKS:

RECEIVED OCT 27 2011 SOLID WASTE SECTION

DRAPER ADEN ASSOCIATES

Printed Name: Cassie Monteverde **Signature:** Cassie Monteverde
Title: Administrative Assistant

P:\06\500\06520\06520-39\Corresp\2011\LOT - 11 1026 - Werner - GW SW Monitoring Report - DRM.docx

DENR USE ONLY: ☐ Paper Report ☐ Electronic Data - Email CD (data loaded: Yes / No) Doc/Event #:

NC DENR
Division of Waste Management - Solid Waste

Environmental Monitoring Reporting Form

Notice: This form and any information attached to it are "Public Records" as defined in NC General Statute 132-1. As such, these documents are available for inspection and examination by any person upon request (NC General Statute 132-6).

Instructions:

- **Prepare one form for each individually monitored unit.**
- **Please type or print legibly.**
- Attach a notification table with values that attain or exceed NC 2L groundwater standards or NC 2B surface water standards. The notification must include a preliminary analysis of the cause and significance of each value. (e.g. naturally occurring, off-site source, pre-existing condition, etc.).
- Attach a notification table of any groundwater or surface water values that equal or exceed the reporting limits.
- Attach a notification table of any methane gas values that attain or exceed explosive gas levels. This includes any structures on or nearby the facility (NCAC 13B .1629 (4)(a)(l).
- Send the original signed and sealed form, any tables, and Electronic Data Deliverable to: Compliance Unit, NCDENR-DWM, Solid Waste Section, 1646 Mail Service Center, Raleigh, NC 27699-1646.

Solid Waste Monitoring Data Submittal Information

Name of entity submitting data (laboratory, consultant, facility owner):

Draper Aden Associates

Contact for questions about data formatting. Include data preparer's name, telephone number and E-mail address:

Name: Karen Weber Phone: 540-552-0444

E-mail: kweber@daa.com

OCT 27 2011 WASTE SECTION

Facility name:	Facility Address:	Facility Permit #	NC Landfill Rule: (.0500 or .1600)	Actual sampling dates (e.g., October 20-24, 2006)
Watauga County Landfill	336 Landfill Road Boone, NC 28607	95-02	.0500	March 16-17, 2011

Environmental Status: (Check all that apply)

☐ Initial/Background Monitoring ☐ Detection Monitoring ☒ Assessment Monitoring ☐ Corrective Action

Type of data submitted: (Check all that apply)

☒ Groundwater monitoring data from monitoring wells
☒ Groundwater monitoring data from private water supply wells
☐ Leachate monitoring data
☒ Surface water monitoring data
☐ Methane gas monitoring data
☐ Corrective action data (specify) _____
☐ Other(specify) _____

Notification attached?

☐ No. No groundwater or surface water standards were exceeded.
☒ Yes, a notification of values exceeding a groundwater or surface water standard is attached. It includes a list of groundwater and surface water monitoring points, dates, analytical values, NC 2L groundwater standard, NC 2B surface water standard or NC Solid Waste GWPS and preliminary analysis of the cause and significance of any concentration.
☐ Yes, a notification of values exceeding an explosive methane gas limit is attached. It includes the methane monitoring points, dates, sample values and explosive methane gas limits.

Certification

To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. Furthermore, I have attached complete notification of any sampling values meeting or exceeding groundwater standards or explosive gas levels, and a preliminary analysis of the cause and significance of concentrations exceeding groundwater standards. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.

Karen Weber, P.G. | Project Geologist | (540) 552-0444

Facility Representative Name (Print) | Title | (Area Code) Telephone Number

Karen Weber 10-25-11

Signature | Date

Affix NC Licensed/Professional Geologist Seal

NORTH CAROLINA LICENSED SEAL 2155 GEOLOGIST KAREN M. WEBER

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Facility Representative Address

C-0861

NC PE Firm License Number (if applicable effective May 1, 2009)

Revised 6/2009

GROUNDWATER AND SURFACE WATER ASSESSMENT MONITORING REPORT

March 16-17, 2011 Event

Watauga County Landfill
Watauga County, North Carolina
NCDENR Permit No. 95-02

Prepared For:

Watauga County Board of Commissioners

And

North Carolina Department of Environment and Natural Resources
Division of Solid Waste Management
Solid Waste Section

October 25, 2011

Prepared By:

Draper Aden Associates
Engineering • Surveying • Environmental Services

DAA Project Number: 6520-39

Draper Aden Associates prepared this document (which may include drawings, specifications, reports, studies and attachments) in accordance with the agreement between Draper Aden Associates and Watauga County

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1.0 INTRODUCTION

This report summarizes the results of the March 2011 Assessment groundwater and surface water sampling event at the Watauga County Landfill, North Carolina Department of Environment and Natural Resources (NCDENR) Permit No. 95-02 (facility). Assessment monitoring was conducted in accordance with the *Watauga County Landfill Assessment Plan* (Draper Aden Associates, 1993) and subsequent monitoring program revisions as approved by NCDENR. This monitoring event represents the first semiannual Assessment monitoring event for 2011.

A remedial cap was installed at the facility in the fall of 1996. The remedial cap constitutes source containment as an intermediate remedial action, as established by the EPA's presumptive remedy directive (EPA 540-F-93-035, 1993). Source containment, institutional controls, monitored natural attenuation, and continued assessment monitoring comprise the broad package of corrective measures currently being conducted at the site.

1.1 Data Transmittal Guidelines

Notification tables are included with this submittal (CD-ROM) including: 1) Concentrations that exceed North Carolina 2L Groundwater Standards and 2B Surface Water Standards, and 2) Concentrations that Exceed Reporting Limits as outlined in the NCDENR Guidance, dated October 27, 2006, and updated October 16, 2007 for electronic submittal of monitoring data. The Guidance also encourages the electronic submittal of additional reports (including narrative text, additional tables, and figures), and laboratory data (Appendix E, CD-ROM) conforming to the format required by NCDENR electronic submittal guidelines. Note that the laboratory data files provide un-validated results; the validation process is discussed in data validation summary reports presented with the laboratory data and the results presented within this report narrative are based on the validated results.

1.2 Site Description

The facility is located approximately 2.75 miles east of the City of Boone, Watauga County, North Carolina south of U.S. Route 421. Development in the vicinity of the landfill is mixed use including residential, commercial, an active quarry, and undeveloped woodland (Figure 1).

The facility is located within the Blue Ridge Belt geologic province in northwestern North Carolina. Geology underlying the site includes an assemblage of metamorphic and plutonic rocks primarily consisting of amphibolite interlayered with granitic gneiss, porphyroclastic biotite-hornblende-plagioclase schist and gneiss, hornblende-biotite gneiss, and hornblende gneiss (Batholemew and Lewis, 1984; Bryant, 1963).

Two aquifer systems exist beneath the facility: an unconfined soil aquifer and a semi-confined fractured bedrock aquifer. A portion of the groundwater from the fracture controlled aquifer is discharged to the soil at lower elevations where it eventually migrates to the South Fork of the New River and its tributaries. A similar potentiometric surface inferred from elevation data in groundwater monitoring wells and local private wells installed in both aquifer systems indicate the soil and fracture controlled aquifers are somewhat interconnected by hydraulically conducive fractures, joints, and/or shear zones. Groundwater flow direction is likely influenced by fracture orientation. Figure 2 illustrates groundwater flow direction at the facility inferred from groundwater elevation data obtained from monitoring wells during the March 2011 monitoring event. Groundwater elevation data are provided on Tables 1A and 1B (Appendix A).

The facility resides within the South Fork of the New River watershed. Three primary drainages are identified at the site (Figure 2): an unnamed tributary of Rocky Branch located directly below the surficial drainage of the fill area (referred to as the North Drainage); an unnamed drainage located below the Bolick Site (referred to as the West Drainage); and an unnamed tributary of Mutton Creek located within the nearby Rock Mountain Heights subdivision (referred to as the Southern Saddle). The North Drainage is the only drainage directly influenced by surface flow from the fill area. Rocky Knob, a topographic knoll located east of the facility and a smaller knoll located southwest are the primary recharge areas at the site.

Along the base of Rocky Knob, discharge is expressed by the presence of surface springs along a northwest trending geologic contact. A series of previously documented springs subsequently covered by landfilling also follow this trend. A spring capture outfall system was installed prior to waste disposal, monitored as surface water sample location S2 (discussed further in Section 1.4).

1.3 Groundwater Monitoring Well Network

Nineteen groundwater monitoring wells (MW-1 through MW-19) were installed at the Watauga County Landfill. Monitoring well locations are shown on the Groundwater and Surface Water Monitoring Program Site Map (Figure 2). As noted on Figure 2, MW-6 and MW-16 were abandoned in April 1996 due to their proximity to construction of the landfill cap and Route 421 bypass, respectively. Additionally, MW-7 was abandoned in October 2002 to permit the extension of the transfer station access routes at the site.

In order to maximize the effectiveness and efficiency of the groundwater monitoring program, the assessment well network is defined as "core" wells or "boundary" wells. Core wells were selected based on each well's ability to monitor and characterize migration of potential impacts. Boundary wells were selected based on each well's ability to monitor and characterize the horizontal and vertical extent of impact. Core wells include MW-1, MW-2, MW-3, MW-8, MW-9, MW-10, MW-11, MW-12, MW-15, MW-17, and MW-19 (Figure 2). Boundary wells include MW-4 MW-5, MW-13, MW-14, and MW-18 (Figure 2).

The soil aquifer is absent upgradient of the fill area. Compliance monitoring wells were primarily completed in the fracture controlled aquifer. Monitoring wells MW-3 (paired with deep well MW-17) and MW-11 (paired with deep well MW-12) were completed in the shallow soil aquifer within the West Drainage. Depth to groundwater observed in March 2011 ranges from approximately 5 to 65 ft. below the ground surface, consistent with historical depth to water measurements.

1.4 Surface Water Sampling Network

The goal of the surface water monitoring system at the Watauga County Landfill is to provide representative surface water samples for assessing the water quality downgradient of the waste disposal area. Six surface water monitoring points serve to meet this objective, as illustrated on Figure 2 and outlined below:

- S-1 Sampled to assess the surface water originating from the landfill before the water discharges into the stream.

- S-2 Sampled to assess the surface water originating from the spring capture system located beneath the fill area.
- S-3 Sampled to assess the surface water of the stream below the waste disposal area. (No sampling location is available upstream of the waste disposal area since the stream originates immediately below and adjacent to the disposal area.)
- S-4 Sampled to assess the surface water beneath the Bolick site. (This sampling location was chosen instead of the sediment pond located on the Bolick site to provide a sample that is more representative of the potential influence of groundwater from the shallow soil aquifer.)
- S-5 Sampled to assess a seep located below the waste disposal area observed in June 1994.
- S-6 Sampled to assess the persistence of surface water impacts observed at S-4 further downgradient along this drainage.

During each sampling event, a reconnaissance of the landfill is conducted to identify the presence or absence of leachate production. No leachate production has been observed during the sampling events since the initiation of monitoring in 1994.

1.5 Sampling and Analysis Schedule

Background monitoring began in 1993 at the Watauga County Landfill. The results of background sampling were provided in the facility's Assessment Plan (Draper Aden Associates, 1993). Based on the results of background sampling and successive assessment sampling events the following inorganic and organic parameters are currently included on the facility's target parameter lists:

- Inorganic Parameters – Barium, chromium, cobalt, iron, nickel, and vanadium.
- Organic Parameters – Benzene, chloroethane, dichlorodifluoromethane, 1,1-dichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, tetrachloroethelene, trichloroethelene, methylene chloride, vinyl chloride, 1,1,1-trichloroethane, chlorobenzene, 1,4-dichlorobenzene, 1,2-dichloroethane, and 1,2-dichloropropane.

As approved by NCDENR, monitoring of additional parameters outlined in 40CFR Part 258 Appendix II – List of Hazardous Organic and Inorganic Constituents that have not been confirmed in monitoring wells to date is no longer required.

In 1998 NCDENR approved a subset of wells to reduce sampling parameters within the core network. As noted below, boundary wells are not included in the current monitoring program; however, these wells are maintained at the site and used to collect periodic water level measurements. Groundwater monitoring wells and surface water locations are currently sampled as follows:

Sample Locations	Sample Frequency	Sample Parameters
Core Well Subset (MW-2, MW-3, MW-8, MW-9, MW-12, MW-17)	Semiannual	Organic Target Parameters
	Annual (Spring Event)	Inorganic Target Parameters
Remaining Core Well (MW-1, MW-10, MW-11, MW-15, MW-19)	Annual (Fall Event)	Organic Target Parameters
Boundary Wells (MW-4 MW-5, MW-13, MW-14, MW-18)	n/a	n/a
Surface Sample Locations (S-1, S-2, S-3, S-4, S-5, S-6)	Semiannual	Organic Target Parameters

The March 2011 event included semiannual sampling and analysis of organic target parameters for the core well subset and the surface water sampling locations and annual sampling and analysis of inorganic target parameters in the core well subset.

2.0 FIELD SAMPLING PROCEDURES

Groundwater and surface water samples were collected in accordance with the facility's Assessment Plan (Draper Aden Associates, 1993). Field procedures conducted during the sampling event are presented in the following sections. Field sample collection procedures also generally conform to current USEPA guidance. Copies of field notes recorded during the March 2011 event are included in Appendix C.

2.1 Well Purging and Sample Collection

Prior to conducting field activities, field personnel donned disposable powder-free nitrile gloves and applicable personal protection equipment. New gloves were donned prior to conducting each purging and sample collection activity. Prior to the start of groundwater sample collection activities, a water level indicator was used to measure the depth to water in each monitoring well. Monitoring wells are generally purged and sampled using a dedicated submersible electric pump. All non-dedicated equipment (i.e., water level indicator) was decontaminated between sampling of each monitoring well.

The volume of water residing in each well was calculated from depth to water measurements and a minimum of three well casing volumes of water was purged from each well or until the well was purged dry prior to sample collection. During well purging, indicator parameters pH, specific conductance (SC), and temperature were measured to evaluate physicochemical groundwater quality prior to sample collection. Each monitoring well was purged until the field parameters approached general steady state conditions. Approximate stabilization of field measurements of pH, SC, and temperature suggested that groundwater being sampled was representative of the near-aquifer. The field measurements were recorded in the field notes included in Appendix C.

Within 24 hours of purging, groundwater samples were collected from each monitoring well in order of decreasing volatility: volatile organic compounds (method 8260B) and total metals (6000 and 7000 series methods). All groundwater samples were containerized and preserved in accordance with USEPA protocols, labeled and immediately placed on ice in a cooler.

Additionally, six residential/commercial use private wells are sampled semiannually for 59 volatile organic compounds by USEPA method 524.2 (see Chain-of-Custody documentation with laboratory data for a list of compounds analyzed by 524.2, CD-ROM). These are sampled from exterior spigots at each location.

2.2 Field Meter Equipment and Calibration

Field measurements of pH, SC, oxidation-reduction potential (ORP), dissolved oxygen (DO), and temperature were analyzed at each well by completing multiple measurements throughout the purge. A YSl model 650 pH/SC/ORP/DO/temperature meter was used for the field measurements of these parameters. The meter was calibrated in the field using laboratory-grade buffers for pH and KCl solution for SC. Field calibration and measurements are documented in the field notes taken for this event and are presented in Appendix C.

2.3 Quality Control Samples

Quality control (QC) field samples consisted of trip blanks for all required analyses. The trip blanks were prepared and supplied by the analytical laboratories and utilized sample containers identical in physical and chemical integrity to the containers used for actual sample collection. The trip blanks were filled with a water matrix, preserved, and sealed by the analytical laboratories. The trip blanks accompanied the actual field samples throughout the sample collection event and served to evaluate potential extraneous sample contamination associated with sample kit preparation, field activities, and/or transportation. Field blanks were not collected, due to the use of dedicated purging/sampling equipment. Additional quality control samples were prepared and analyzed by the laboratory, such as method blanks, reagent blanks, and matrix spikes.

2.4 Sample Containers and Shipment

Groundwater samples were collected in USEPA approved containers prepared and supplied by the analyzing laboratory. The types and volumes of sample containers used, as well as the respective methods of preservation, were recorded on chain-of-custody (COC) documentation (included with the laboratory data on CD-ROM). Groundwater samples were containerized and preserved in accordance with USEPA protocols, labeled, and immediately placed on ice in a cooler. A custody

seal was placed on each sample cooler prior to shipping to verify samples were not disturbed during transport. Each cooler containing groundwater samples was transported via overnight carrier to the analytical laboratory with appropriate COC documentation.

2.5 Chain of Custody Documentation

Standardized COC forms were used to document custody of the samples from the time they were collected in the field to the time the samples were relinquished to the analytical laboratory. COC documentation includes site location information, sample collection locations, numbers and types of sample containers, sample preservation methods, filtration procedures, MS/MSD samples, blank samples, dates and times of sample collections, names of sample collectors, and dates and times of each custody change. COC documentation was transported with the samples to the respective analytical laboratories. COC documentation is included with the analytical laboratory reports (on CD-ROM, Appendix E).

3.0 PRESENTATION OF VALIDATED RESULTS

As required under NCDENR Memorandum for *Environmental Monitoring Data for North Carolina Solid Waste Management Facilities* dated October 16, 2007, the following additional information is presented on CD-ROM under the folder Electronic Data Deliverables (EDD):

- NCDENR Environmental Monitoring Data Form,
- Original Laboratory Analytical Reports, and
- Analytical Results based on NCDENR EDD templates.

Please note the data on EDD are presented as received from the laboratory (i.e., unvalidated data). The following sections discuss results after Draper Aden Associates completed third party validation of the data. Validated results are presented on Table 2A Organic Results – Core Wells, Table 2B Organic Results – Surface Water Samples, and Table 2C Inorganic Results, Appendix B. Historic Data Tables are presented in Appendix D.

3.1 Laboratory Analysis

Commercial analytical laboratories were contracted to provide identification and quantitation of target parameters. Analysis for VOCs by Methods 8260B (groundwater samples) and EPA CLP-SOMO 1.2 volatile target compounds (surface water samples) were performed by CompuChem Environmental Corporation, a division of Liberty Analytical Corporation of Cary, North Carolina. CompuChem also performed analysis of the six inorganic target parameters per USEPA CLP ICP Method ILMO 5.4. Analysis for VOCs by EPA Method 524.2 for private well samples was performed by Lancaster Laboratories of Lancaster, Pennsylvania (NC state-certified lab for Method 524.2). Quality assurance and quality control objectives were established to ensure the groundwater monitoring data were of adequate quality for the intended use. The objectives include: precision, accuracy, representativeness, completeness and comparability along with internal quality control methods for field procedures. The use of these quality control measures help to validate the findings of the March 2011 monitoring event.

Analytical methods were performed in accordance with the procedures outlined in the USEPA document *Test Methods for Evaluating Solid Waste – Physical/Chemical Methods, SW-846, 3rd*

ed., Final Update I, II/IIA and III (USEPA, 1996) (commonly referred to as SW-846), or for CLP analytical techniques in accordance with the procedures listed in the CLP-SOW Organics SOMO 1.2 and CLP-SOW Inorganics ILMO 5.4. The analytical methods used for this project were the most appropriate methods available within the framework of the program and SW-846. The laboratory analytical reports and associated data validation documentation are presented in Appendix E on CD-ROM.

Draper Aden Associates validated the data set in general accordance with SW-846, the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999),* and *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008),* where applicable and the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004),* and *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review (January 2010),* where applicable.. In addition, the analytical laboratory QA/QC data were evaluated for conformance with and adherence to prescribed data quality objectives (DQOs). Predefined standardized data validation qualifiers were used to communicate unique characteristics of the data identified in the review process.

3.2 Analytical Results - Target Organic Parameters and Regulatory Exceedances

Analytical results of target organic parameters are presented on Table 2A (Appendix B). Figure 3 illustrates the location of wells where target organic parameters were detected at a concentration that exceeded the NC2L standard during this event. The following list identifies the target organic parameters that exceed the NC2L standards on the March 2011 monitoring events, and the monitoring well(s) in which the parameters were observed.

- Benzene was reported at a concentration above the current NC2L standard in monitoring well MW-9.
- 1,1-Dichloroethane was reported at a concentration above the current NC2L standard in wells MW-2, MW-3, MW-9, and MW-12.

- 1,1-Dichloroethene was reported at a concentration above the current NC2L standard and the USEPA MCL in MW-2.

- Tetrachloroethene was reported at a concentration above the current NC2L standard in wells MW-2 and MW-12.

- Trichloroethene was reported at a concentration above the current NC2L standard in well MW-12.

- Vinyl Chloride was reported at a concentration above the current NC2L standard in wells MW-9 and MW-12.

Target organic parameters were detected in surface water samples collected from S-1, S-2, S-4, and S-5 (Table 2B); however no detections were observed above the USEPA MCL or current NC 15A NCAC 2B Surface Water Quality Standard (Human Health).

3.3 Analytical Results - Target Inorganic Parameters and Regulatory Exceedances

Analytical results of target inorganic parameters are presented on Table 2C (Appendix B). Detections of iron, a common naturally occurring element, exceeded the NC 2L standard in wells MW-3 and MW-17 (west drainage), MW-8 (north drainage), and MW-9 (southern saddle), which are all located near the facility boundary. Iron was not detected or was below the NC 2L standard in wells MW-2 and MW-12 further from the property boundary. Detections of cobalt and vanadium were observed at values exceeding the interim 2L standard. However, all results were less than NCDENR's posted Solid Waste Section Limits (SWSL) of 10 μg/l and 25 μg/l for cobalt and vanadium respectively.

3.4 Analytical Results - Non-target Organic Parameters

Though not part of the routine target parameter list, additional volatile organic compounds are analyzed and reported by Method 8260B. Of these additional compounds, chloroform was detected at estimated concentrations below the QL in MW-3 and MW-12 (Table 3, Appendix B). Chloroform was historically detected in well MW-2, MW-12 and MW-17 at very low levels below the laboratory quantitation limit that do not exceed NC2L or SWSL standards. These

additional non-target organic parameters will continue to be monitored semiannually by Method 8260B.

3.5 Private Well Sampling Results

Private well sampling began in 1993. Sampling between 1994 and 2000 was jointly conducted by the Appalachian District Health Department (ADHD) and the NC State Laboratory of Public Health. Private well sampling between 2001 and the present were conducted by Draper Aden Associates at the direction of Watauga County with oversight by State officials. The objective of the private well sampling and analysis program is to investigate and evaluate the potential influence and associated risks from the landfill on neighboring groundwater resources.

As noted previously, six residential/commercial private wells are sampled semiannually for volatile organic compounds by USEPA method 524.2 as follows (see Figure 2 for approximate well locations):

- 2239 Hwy 421 South (Well Reference No. 1) – Not In Use
- 2347 Hwy 421 South (Well Reference No. 2) – Non-potable Use Only
- BREMCO, 2491 Hwy 421 South (Well Reference No. 5) – Not In Use
- Hollar and Greene Produce, 230 Cabbage Row (Well reference No. 6) – In Use
- 2711 Hwy 421 South (Well Reference No. 15) – Non-potable Use Only
- 2737 Hwy 421 South (Well Reference No. 16) – Non-potable Use Only

All locations, except Hollar and Greene Produce were apparently connected to the City of Boone public drinking water supply. Analytical results from the March 2011 sampling of these wells are discussed below. Target analytes that were detected on the March 2011 sampling event are presented on Table 4 (Appendix B); historical private well results are provided in Appendix D. Note, no analytes were detected in wells No. 1 and No. 6; therefore, these are not included on Table 4.

Draper Aden Associates reviewed the data prior to submitting results to the individual property owners; however, a formal validation of the data was not conducted. The following NC2L or MCL exceedances were identified in samples collected during the March 2011 sampling event:

- 1,1-Dichloroethane concentrations reported for the BREMCO well and Well No. 2 exceed the NC2L standard. Both locations are connected to the public water system, no immediate action is planned at this time.

- The organic parameter sec-butylbenzene was detected in the BREMCO well on the September 2010 event, but has not been reported during previous sampling events. This parameter was not observed during the March 2011 event and the September 2010 detection is considered suspect.

The March 2011 target parameter results observed in the six private well samples are consistent with historical results from these wells. The Hollar & Greene Produce well (Well Reference No. 6) is the only private well sampled that is apparently still in use as a potable water source. No target organic parameters were detected in Hollar & Greene Produce well, which is consistent with historical monitoring.

Given that the remaining private wells are either not in use (BREMCO, Well Reference No. 1), or are non-potable water sources (Well References No. 2, 15 and 16), no further immediate action is proposed. Semiannual monitoring of the six residential/commercial private wells will continue.

Historically, 61 wells that are adjacent to the landfill were sampled at least once for potential impact from the landfill. Residences primarily in the southern saddle and western drainage were connected to public water as noted on Figure 2. Eighteen of the remaining wells are periodically sampled as part of the private well sampling program. These were last sampled in March 2008 with no indication of landfill-derived impact.

4.0 SUMMARY OF MONITORING PROGRAM

Source containment, implemented through a remedial cap, institutional controls, monitored natural attenuation, and continuing monitoring comprise the broad package of corrective action implemented at the site as discussed in the following sections. A risk assessment to support the corrective action was completed for the landfill and documented in 1993 and 1996 (Draper Aden Associates 1993, 1996) and updated in 2000 (Draper Aden Associates, 2000). The following discussion highlights the primary corrective measures in-place.

4.1 Engineering and Institutional Controls

Engineering controls at this facility include facility closure, followed by installation of a landfill remedial cap in 1996. Closure and capping of the landfill mitigates water infiltration through the waste thereby reducing leachate formation and preventing direct exposure of human and ecological receptors to solid waste.

Institutional controls include the extension of public water along the Route 421 alignment north of the facility and to select residences located south of the facility. Additionally, facility personnel manage the site and control access during operating hours (transfer station, animal shelter) and access is restricted to authorized personnel during non-operating hours. Additionally, development at the site will be restricted in perpetuity as a result of the landfill.

4.2 Monitored Natural Attenuation for Groundwater Remedy

Site specific sampling provides historical data for evidence that natural attenuation processes occur in groundwater to reduce solid waste constituent mass and concentration. The core monitoring wells are located at upgradient, cross-gradient, and downgradient locations relative to the groundwater plume and waste unit. Historical data tables are provided in Appendix D, showing decreasing concentrations over time, and changing relative ratios of parent-daughter chlorinated organic compounds. The results tabulated in Appendix D are the result of intrinsic bioremediation, which is the primary means by which natural attenuation processes reduce constituent mass. Although NC2L groundwater protection standards continue to be exceeded at the site, natural attenuation processes are successfully reducing the concentration, extent, and total mass of impact.

Field measurements of oxidation-reduction potential (ORP) and dissolved oxygen (DO) are recorded during well purging and immediately before sample collection and documented in the field notes (Appendix C). Field measurements of ORP and DO during the March 2011 event were consistent with historical observations in the same wells. While field-measured parameters are useful indicators, intrinsic biodegradation susceptibility and progress toward target organic parameter degradation via MNA processes are reflected by the ratios of parent (source) to daughter (product) analyte concentrations. For example, mass degradation of trichloroethene (parent) is interpreted from the presence of daughter product 1,1-dichloroethane in groundwater. The following discussion summarizes the observed parent-daughter relationships that suggest MNA processes are progressing toward diminishing the mass and concentration of target organic parameters in groundwater.

Following the parent-daughter discussion below, an assessment of the overall temporal trend in parent target organic parameters is presented, further reflecting the progress of MNA in reducing groundwater concentrations.

4.2.1 Chlorinated Hydrocarbon Parent-Daughter Compounds

Both parent and daughter compounds are observed in each of the three flow paths: western drainage, northern drainage, and southern saddle. The biotic degradation (microbially mediated oxidation-reduction reactions that degrade contaminants) of tetrachloroethene(PCE)→trichloroethene(TCE)→cis-1,2-dichloroethene(cis-1,2-DCE)→vinyl chloride (VC) is observed in all three drainage areas and the degradation of 1,1,1-trichloroethane (1,1,1-TCA)→1,1-dichloroethane(1,1-DCA)→Chloroethane is observed in the northern drainage area and to a lesser degree in the southern saddle. Additional abiotic degradation (chemical transformation that degrades without microbial facilitation) of 1,1,1-trichloroethane→1,1-dichloroethene (1,1-DCE) and ultimately to vinyl chloride is also evident in the northern drainage. These are discussed further in the following section.

The private well associated with the BREMCO facility has historically detected a suite of target organic parameters. Increasing 1,1-dichloroethane and chloroethane are observed at this location where historically only trace or undetected amounts of 1,1,1-trichloroethane are observed

(source). The analytical data from this well and parent-daughter compounds present help define the extent of plume migration in the northern drainage.

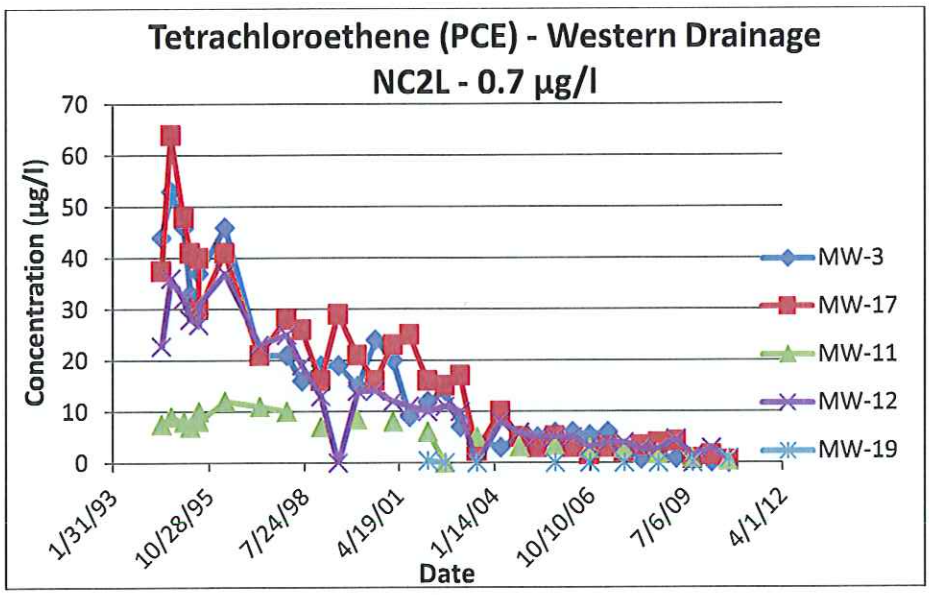
4.2.2 Temporal Trend Evaluation

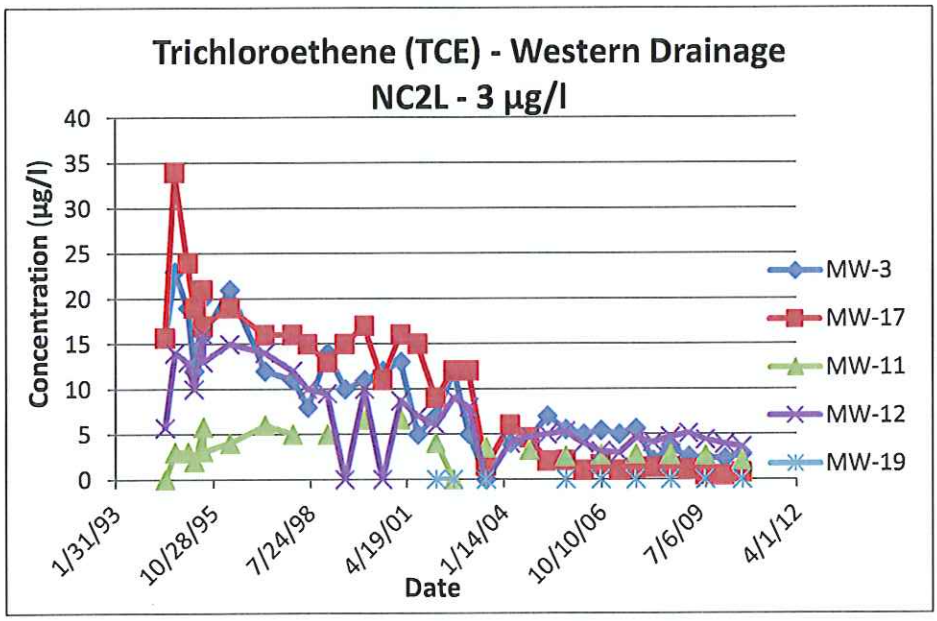
Monitoring results indicate reductions in the extent and concentration of impact to groundwater have occurred across the site. Although target constituents continue to be observed in off-site locations, reductions of concentrations and extent are observed. Analytical data collected from the core monitoring wells are used to evaluate groundwater quality in the western drainage, northern drainage, and southern saddle and provide continuous data for evaluation of plume degradation as presented below in the following graphs, which illustrate historic detections of target organic parameters in each of the drainage areas. The following sections (4.2.2.1 – 4.2.2.3) were excerpted from the September 2010 semiannual monitoring report when all core monitoring wells were sampled (only a subset of wells were sampled during the March 2011 event). A review of March 2011 data indicated similar concentrations of organic parameters in the core subset compared to results from data collected from the same wells in September 2010. The presentation will be updated after the September 2011 monitoring results are received. The presentation is primarily based on those constituents in which a NC2L standard was exceeded during recent groundwater monitoring events or if the constituent applies to the parent-daughter compound discussion above.

4.2.2.1 Western Drainage

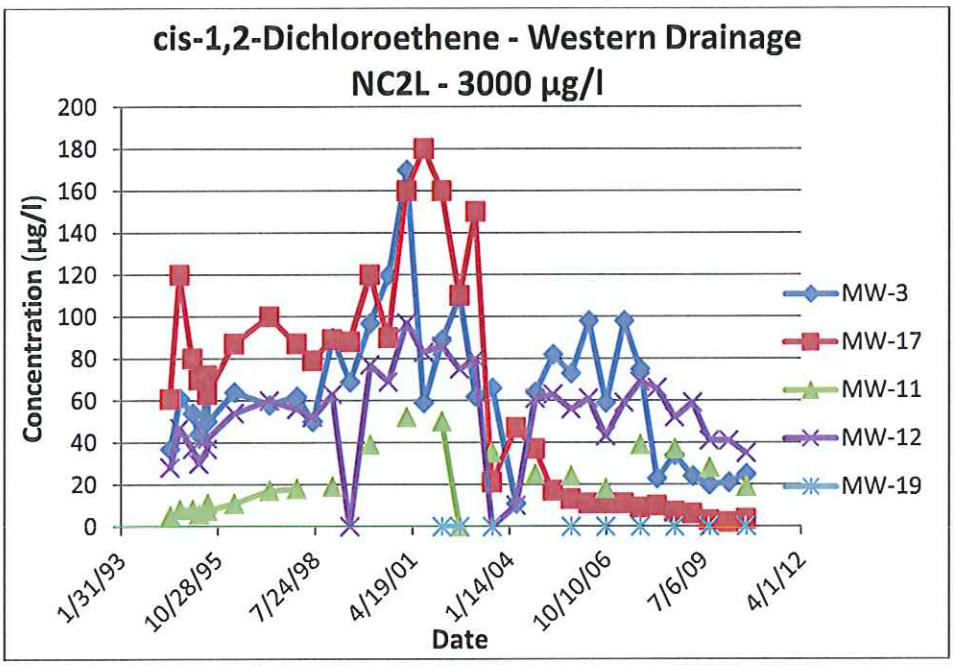
Western Drainage – Degradation of PCE→TCE→cis-1,2-DCE→VC

The downward trend in concentrations of tetrachloroethene and trichloroethene in wells along the western drainage is apparent in the graphs below indicating that natural attenuation processes are effectively reducing solid waste constituent mass and concentration in the groundwater plume.

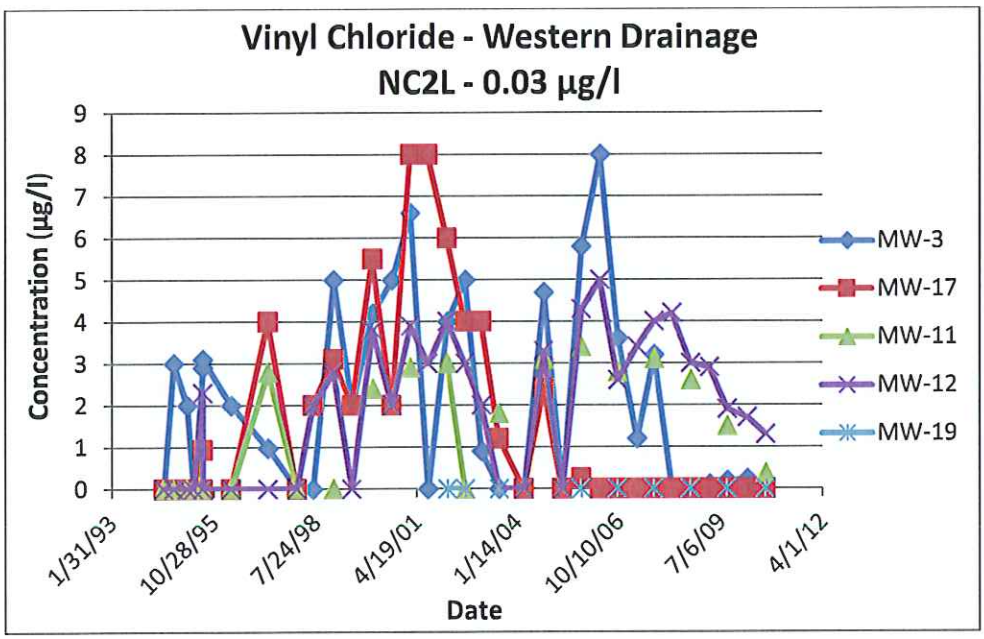




As tetrachloroethene and trichloroethene concentrations degrade, cis-1,2-dichloroethene concentrations generally increase starting in the late 1990s, degradation of cis-1,2-dichloroethene can be inferred by a reduction in concentration first in MW-17 (deep pair with MW-3), followed by MW-3 (shallow), MW-11(shallow pair with MW-12), and MW-12 (deep). Where daughter concentrations also show an indication of degradation it is likely due to reduced parent compounds in groundwater due to intrinsic biodegradation (see below).



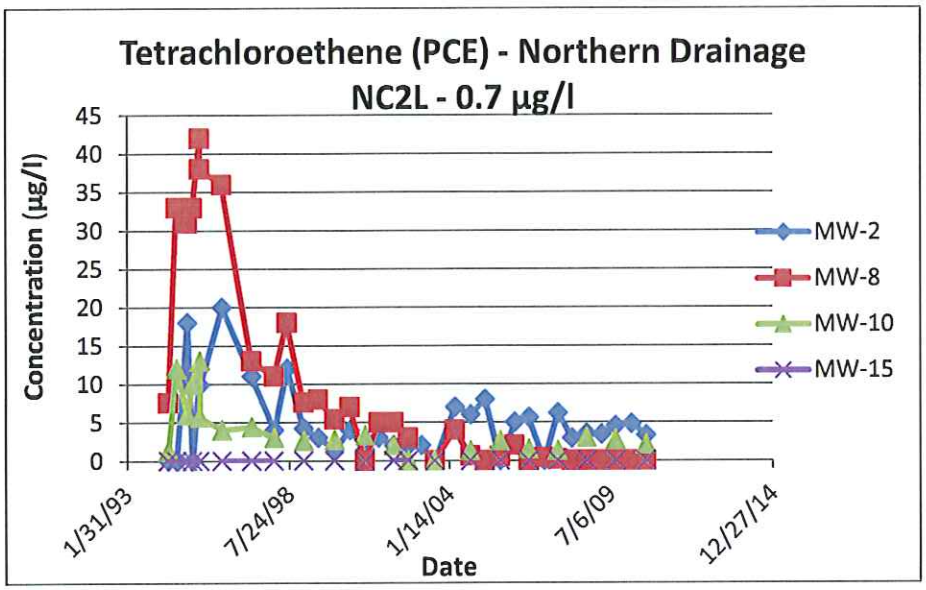
There is evidence of a downward trend in concentration of vinyl chloride in wells MW-3 (shallow) and MW-17 (deep) closest to the waste unit and a slight upward trend in concentration of vinyl chloride in wells MW-11 (shallow) and MW-12 (deep) farther from the waste unit as degradation of parent products continues throughout the plume. Production of cis-1,2-dichloroethane and vinyl chloride is evidence of dechlorination reactions driven by intrinsic bioremediation in the western drainage and a reduction of parent compounds in groundwater.

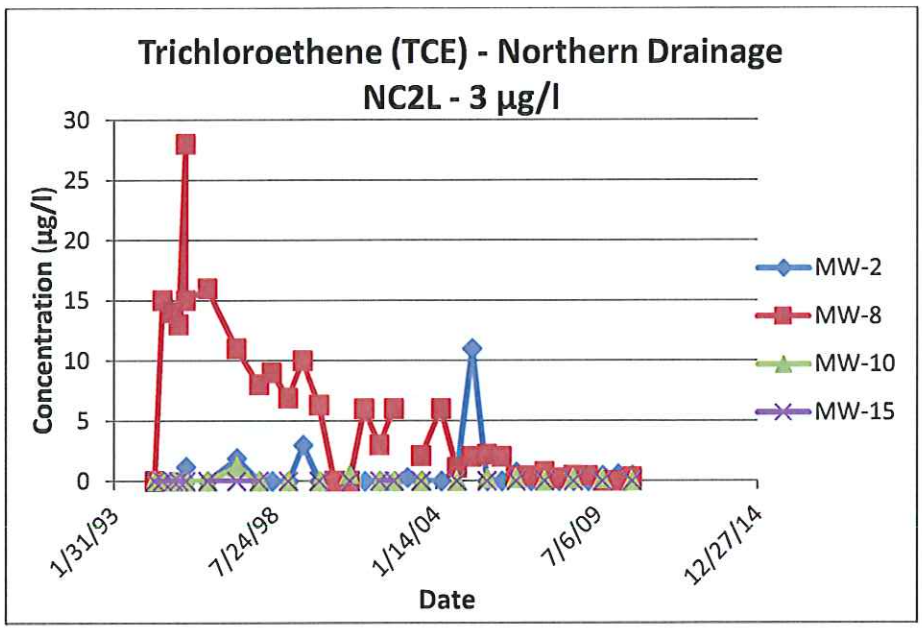


4.2.2.2 Northern Drainage

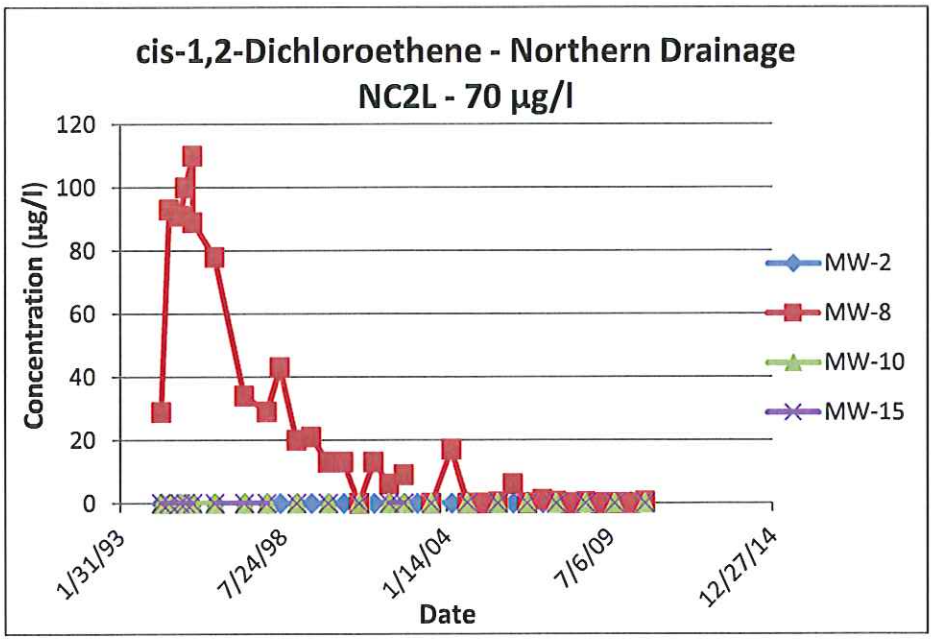
Northern Drainage - Degradation of PCE→TCE→cis-1,2-DCE→VC

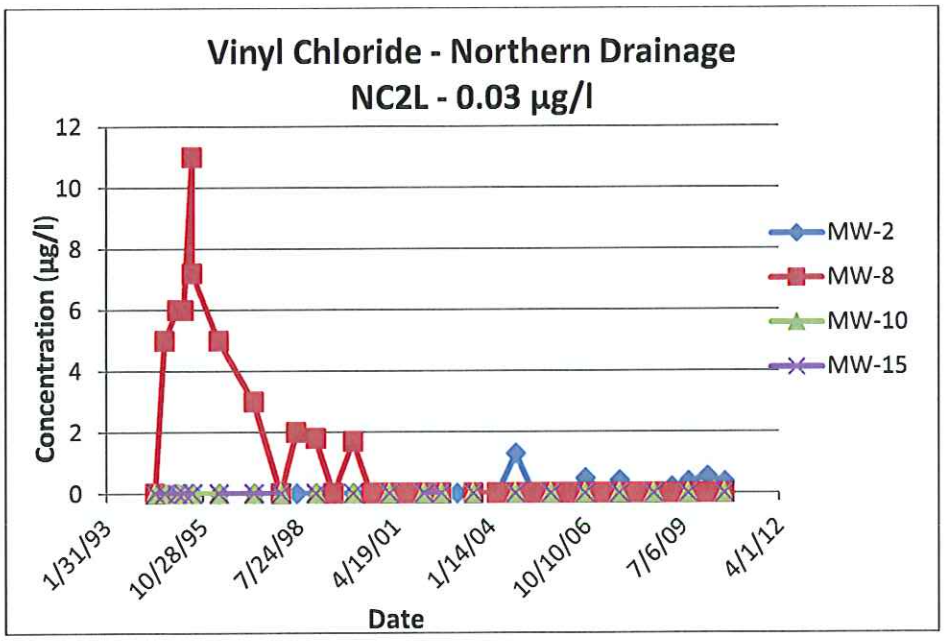
The downward trend in concentrations of tetrachloroethene and trichloroethene in wells along the northern drainage indicates that natural attenuation processes are reducing solid waste constituent mass and concentration in the groundwater plume.





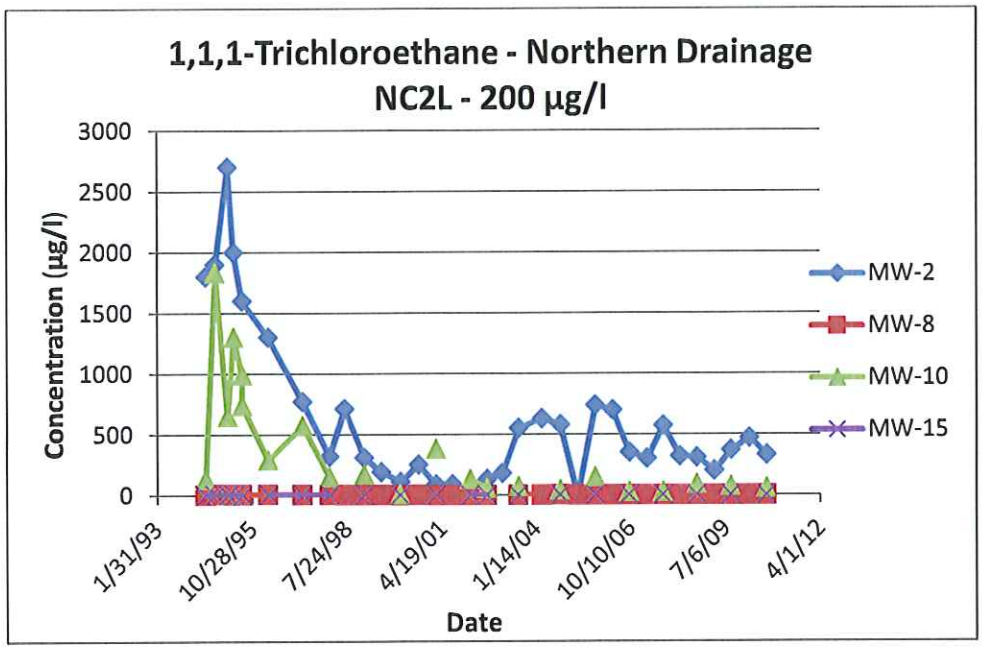
Despite the absence of an increase and subsequent reduction of cis-1,2-dichloroethene and vinyl chloride concentrations, the decline in concentrations of all four compounds (tetrachloroethene, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride) in MW-8, is evidence that microbial mitigated degradation is occurring. MW-8 lies west of the waste as opposed to MW-10 and MW-2, which lie east and north respectively. Detections of these same compounds in MW-2 and MW-10 have historically been observed at lesser concentrations than at MW-8.





Northern Drainage - Degradation of 1,1,1-TCA→1,1-DCA→Chloroethane

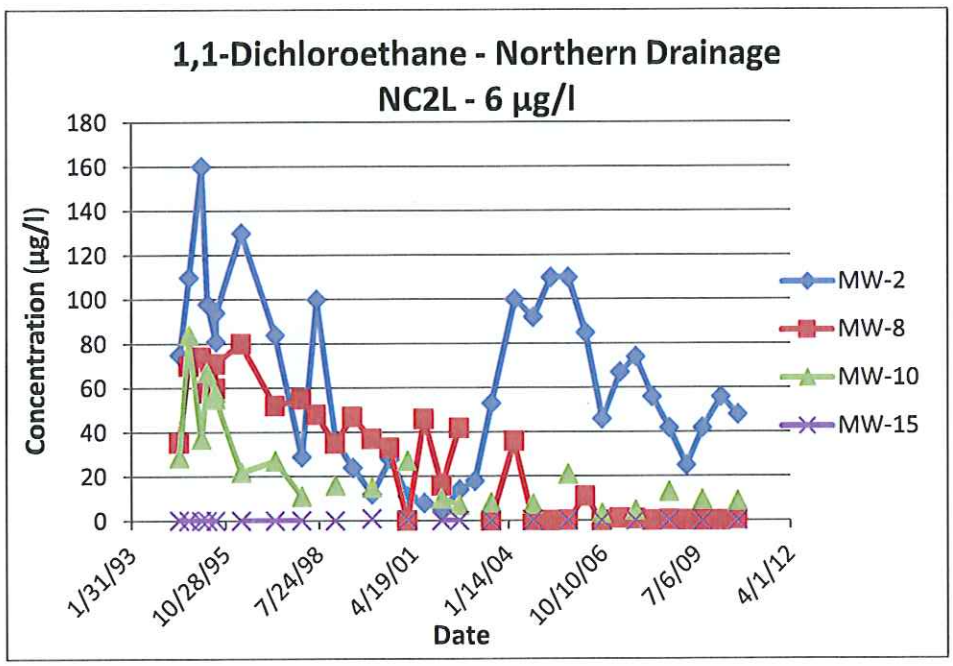
Note the concentrations of 1,1,1-trichloroethane in the mid-1990s were often observed at levels exceeding 1,000 µg/l in wells MW-10, which lies approximately 100 feet and slightly cross-gradient to the waste with respect to groundwater flow and MW-2, which lies approximately 440 feet downgradient from the waste with respect to groundwater flow.

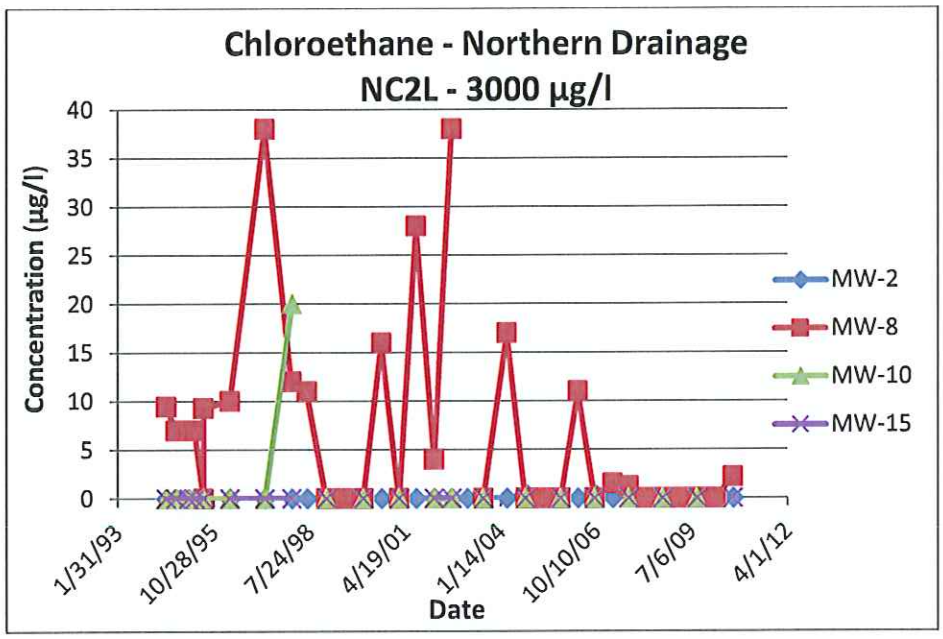


Biotic degradation of 1,1,1-trichloroethane to 1,1-dichloroethane and ultimately to chloroethane appears incomplete in wells MW-2 and MW-10 based on variable observations of 1,1-dichloroethane and the lack of observation of chloroethane at these locations.

1,1-dichloroethane is reported as a fairly recalcitrant compound, with a relatively low degradation rate under anaerobic conditions and an even lower degradation rate in aerobic conditions. The relatively slow reaction kinetics leads to persistence of 1,1-dichloroethane in groundwater.

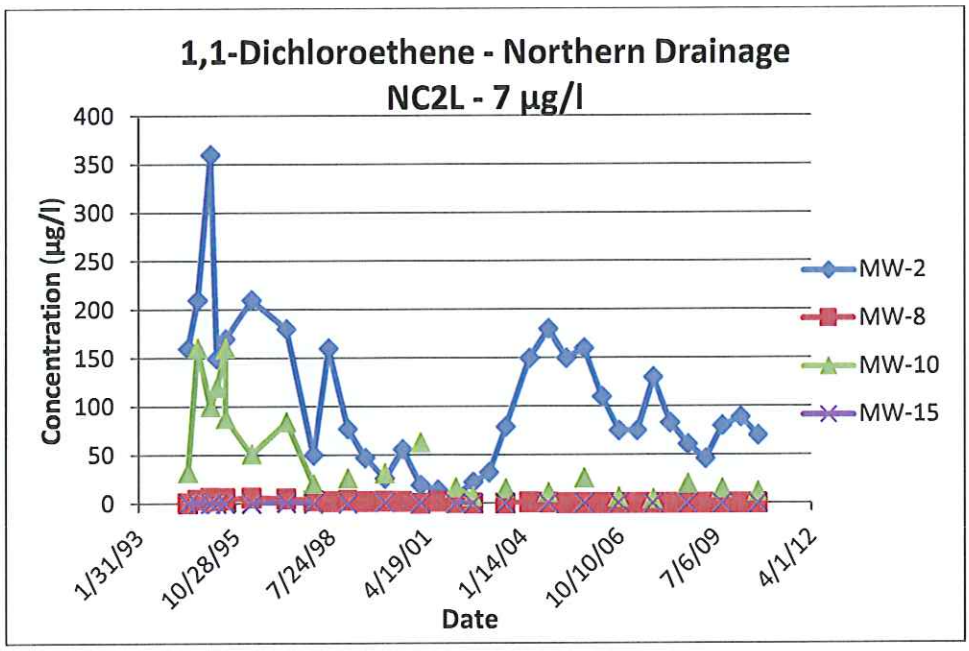
The presence of 1,1-dichloroethane and chloroethane in MW-8 indicate that intrinsic biodegradation of 1,1,1-trichloroethane was likely completed prior to initiating groundwater monitoring at these locations. Degradation of tetrachloroethene and trichloroethene were also observed in MW-8, as discussed previously.





Northern Drainage - Degradation of 1,1,1-TCA→1,1-DCE→VC

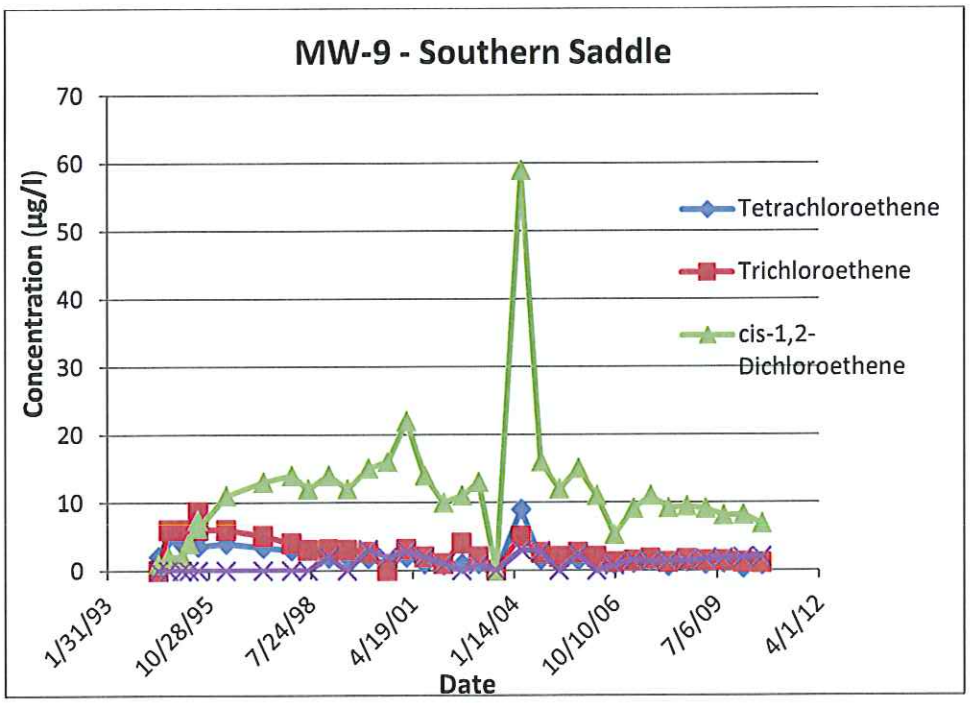
Referring back to the graph of 1,1,1-trichloroethane in the northern drainage, the presence of 1,1-dichloroethene (1,1,1-trichloroethane→1,1-dichloroethene→vinyl chloride) indicates that both abiotic and biotic degradation play a role in the breakdown of 1,1,1-trichloroethane. However, degradation of 1,1-dichloroethene to vinyl chloride is not complete as vinyl chloride has not been observed at significant concentrations in wells MW-2 and MW-10 or further from the waste in MW-15.



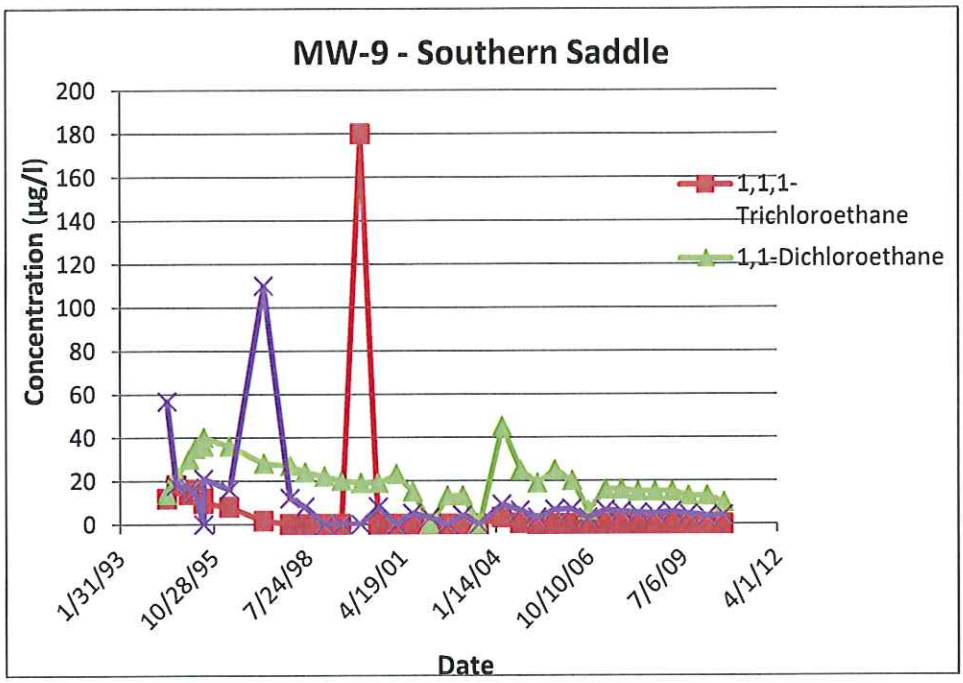
4.2.2.3 Southern Saddle

Two core wells MW-1 and MW-9 monitor groundwater quality in the southern saddle:. Historically, analytical data from groundwater collected at MW-1 indicate there is no impact from the landfill (Appendix D). Data from MW-9 indicate a variety of organic target analytes are detected in the local groundwater.

Similar to the northern and western drainages, the degradation sequence of tetrachloroethene→trichloroethene→cis-1,2-dichloroethene→vinyl chloride appears evident in MW-9. Both tetrachloroethene and trichloroethene show slight downward concentration trends. Despite the elevated detection of cis-1,2-dichloroethene in 2004, which was not greater than the NC2L standard, this compound appears to demonstrate a downward trend beginning in late 2005. Vinyl chloride demonstrates a slightly increasing trend with consistent detections since late 2006 to the present and variable, yet slight, NC2L exceedances since monitoring began. The linear trends observed over time supports the fact that biotic degradation of these compounds is occurring at this location.



The degradation sequence of 1,1,1-trichloroethane→1,1-dichloroethane→chloroethane is also observed in MW-9, with all compounds currently demonstrating decreasing trends and only 1,1-dichloroethane exceeding the current NC2L standard.



Benzene has also been detected in MW-9 at concentrations that exceed the NC2L standard. However, benzene has not historically been detected above the EPA MCL (5 μg/l) and is not illustrated herein.

No residential wells in the southern saddle were sampled in 2011. Eighteen residential wells located south of the southern saddle were sampled in September 2008 and ten residential wells located outside the area currently served by public water were sampled in March 2005. No constituents were verified as detected in any well located south of the southern saddle in 2005 and 2008. Historically, organic constituents were detected at trace levels in wells located south of the southern saddle in 1992 and 1993 that have diminished to non-detect levels. One well, Well Reference No. 24 indicated trace levels of chloroform, bromodichloromethane, and dibromochloromethane; these compounds have not been detected in groundwater samples at the landfill and are a known byproduct of well chlorination. Nonetheless, this well was connected to public water.

5.0 CONCLUSIONS

Assessment data collected to date provides evidence of plume attenuation. Ongoing monitoring will provide temporal data necessary to continue assessing constituent transport, migration, and fate. As plume attenuation continues, source controls (cap) will reduce leachate production. Natural attenuation processes will continue to reduce plume mass and concentrations and provide for a continuously diminished plume boundary.

Ongoing natural attenuation indicator monitoring is expected to enable the identification of conditions affecting reductive dechlorination and aerobic degradation processes existing at impacted locations across the site. The identification of favorable and/or unfavorable site conditions that can either promote or limit active natural attenuation processes may enable the relaxation of factors impeding intrinsic reduction and oxidation reactions at the site.

Private well sampling will continue at the site to evaluate potential risk to these water sources. Environmental receptors, such as surface streams, have been identified and impact is not anticipated based on surface and groundwater data collected to date.

5.1 Recommended Actions

The second semiannual assessment monitoring event was conducted in September 2011. The monitoring event was conducted in accordance with the following monitoring program schedule:

- Semiannual monitoring of the core monitoring wells (organic parameters);
- Semiannual surface water monitoring; and
- Semiannual private well sampling.

Semiannual monitoring will continue with the next event currently scheduled for March 2012.

6.0 REFERENCES

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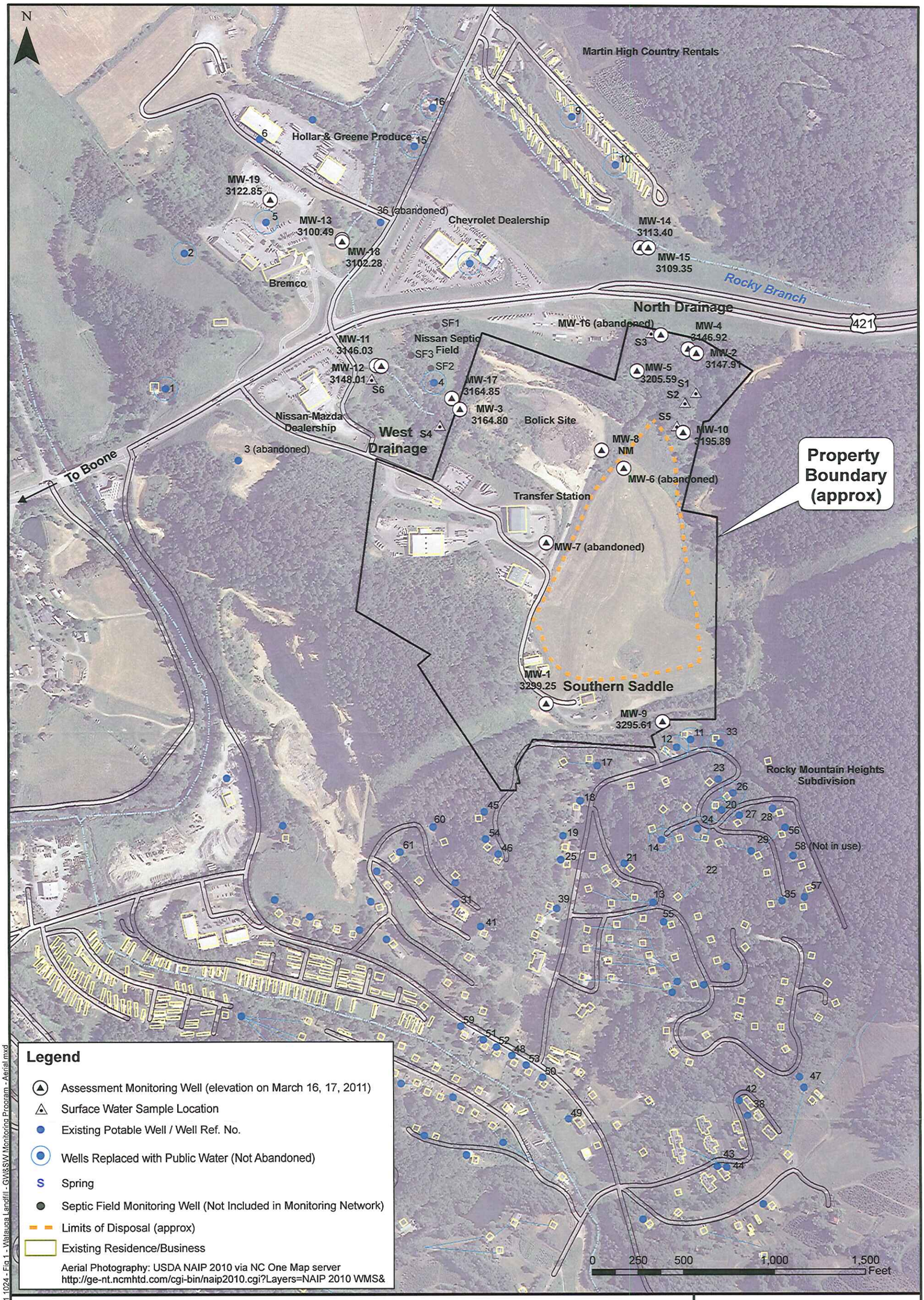


Groundwater & Surface Water Monitoring Program Site Map

Watauga County Landfill
Watauga County, North Carolina

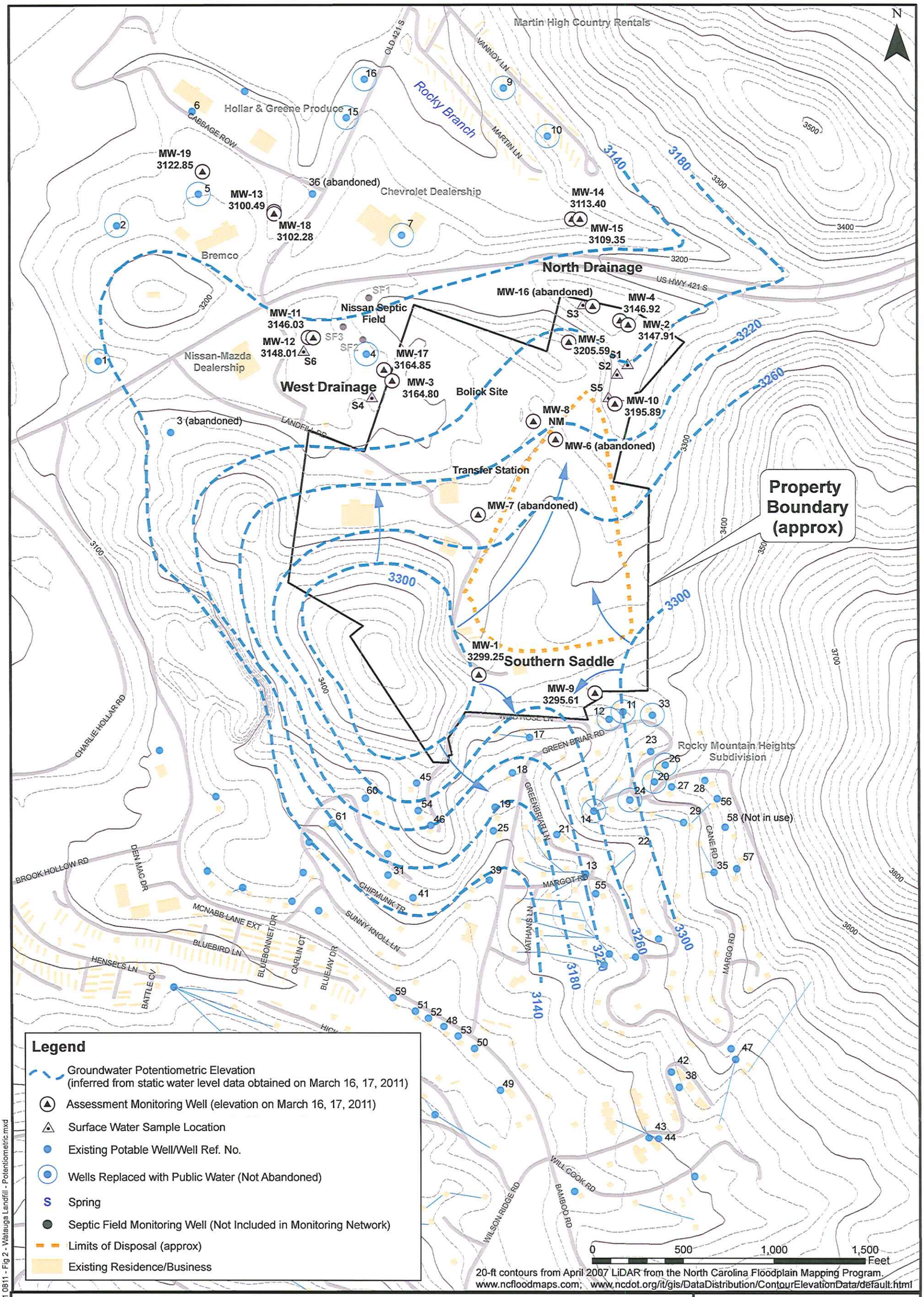
SCALE	1" = 500'
PLAN NO.	6520-39

Draper Aden Associates
Engineering • Surveying • Environmental Services
2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

DESIGNED	KMW
DRAWN	SMF
CHECKED	WDN
DATE	10-24-11

FIGURE
1

Path: P:\06500\06520\06520-39\GIS\MAP - 11 1024 - Fig 1 - Watauga Landfill - GW&SW Monitoring Program - Aerial.mxd



Potentiometric Surface Map

March 16, 17, 2011 Groundwater Monitoring Event

Watauga County Landfill
Watauga County, North Carolina

SCALE 1" = 500'

PLAN NO. 6520-39

Draper Aden Associates
Engineering • Surveying • Environmental Services
2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

DESIGNED KMW
DRAWN SMF
CHECKED WDN
DATE 08-11-11

FIGURE 2

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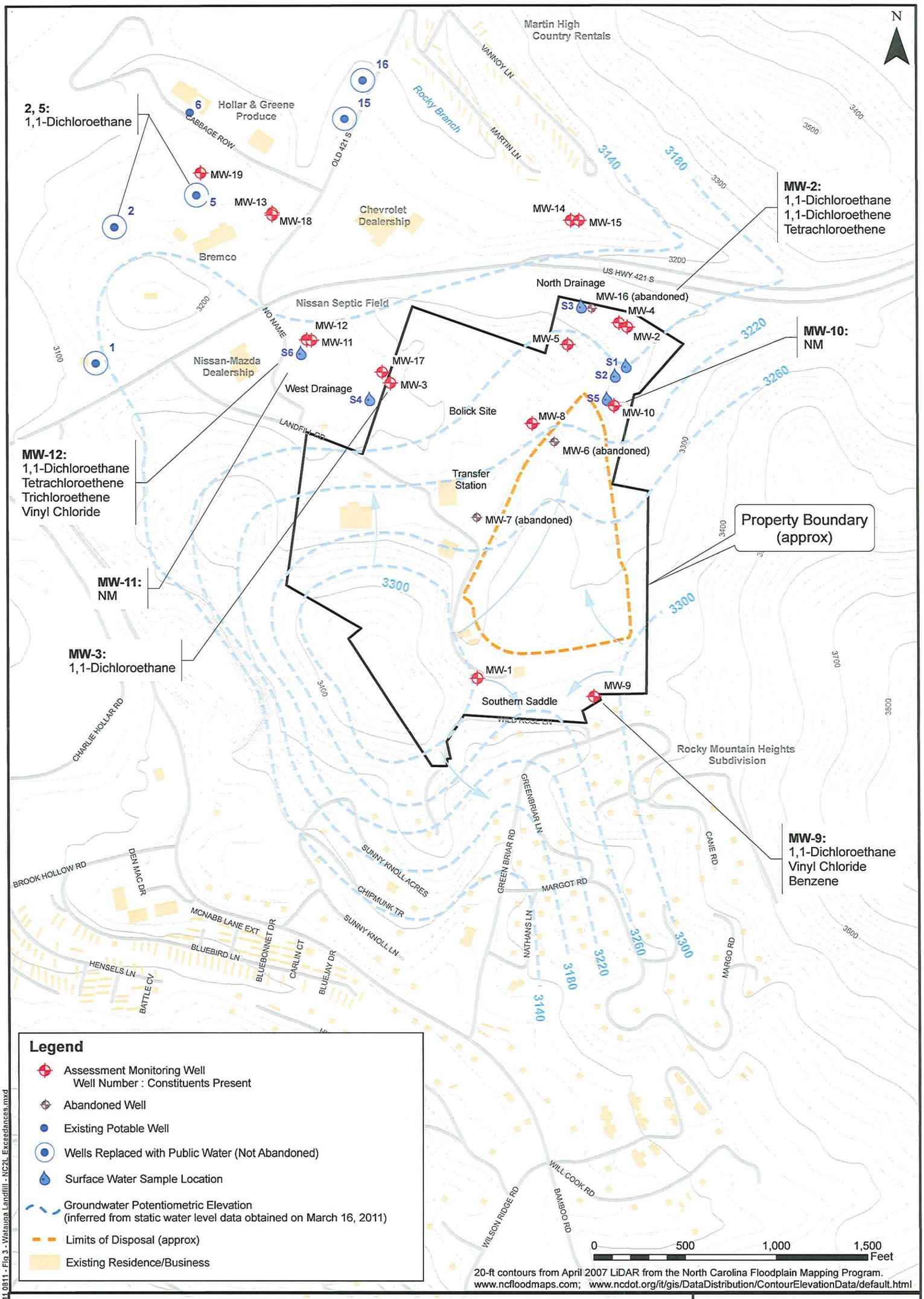

NC2L Exceedances

March 16, 17, 2011 Groundwater Monitoring Event

Watauga County Landfill
Watauga County, North Carolina

SCALE 1" = 500'

PLAN NO. 6520-39

Draper Aden Associates
Engineering • Surveying • Environmental Services
2206 South Main Street
Blacksburg, VA 24060
540-552-0444 Fax: 540-552-0291
Richmond, VA
Charlottesville, VA
Hampton Roads, VA

DESIGNED KMW
DRAWN SMF
CHECKED WDN
DATE 08-11-11

FIGURE 3

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APPENDIX A

Groundwater Elevation Data

Table 1A. Groundwater Elevation Data

Watauga County Landfill, Facility ID No. 95-02

Well ID	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8*	MW-9	MW-10
GS Elevation	3339.03	3151.24	3182.25	3150.06	3263.81	3262.55	3270.56	3235.39	3356.65	3202.18
MP Elevation	3341.80	3152.94	3183.12	3152.52	3267.69	3266.04	3273.53	3239.77	3359.23	3203.87
DATE	GROUNDWATER ELEVATION									
6/20/94	3303.80	3145.06	3164.69	3139.04	NM	3221.92	3250.50	3222.09	3299.88	3195.69
9/27/94	3302.11	3145.43	3165.70	3142.07	NM	3222.05	3242.80	3222.39	3301.44	3195.78
2/6/95	3304.23	3147.36	3166.92	3144.34	3217.30	3223.19	3227.65	3224.36	3299.69	3196.14
4/11/95	3303.86	3146.48	3166.27	3143.30	3218.74	3223.23	3224.42	3223.72	3299.93	3195.97
7/10/95	3300.60	3146.34	3165.69	3143.58	NM	3222.31	3224.55	3222.35	3279.06	3195.96
4/9/96	3303.09	3147.09	3176.11	3144.12	3217.82	3223.17	3229.21	3222.97	3297.95	3196.2
4/8/97	3303.50	3147.35	3166.77	NM	NM	AB	3233.03	3222.34	3296.76	3196.2
1/13/98	3298.09	3145.94	3165.61	3143.98	3212.23	AB	3229.35	3219.45	3295.67	3195.62
6/23/98	3304.96	3147.00	3169.11	NM	NM	AB	3230.46	3222.85	3297.08	3196.55
1/11/99	3297.24	3145.28	3164.25	3143.67	3212.58	AB	3235.64	3216.94	3294.84	3195.19
7/12/99	3298.93	3146.16	3167.96	NM	NM	AB	3227.74	3219.85	3295.18	3195.62
2/1/00	3297.70	3145.32	3166.07	3143.40	3211.61	AB	3232.28	3218.37	3294.82	3195.46
8/8/00	3299.43	3145.52	3165.84	NM	NM	AB	3227.88	3218.52	3295.53	3195.33
2/12/01	3295.00	3144.89	3164.20	3143.42	3209.02	AB	3230.81	3215.50	3294.63	3194.74
8/7/01	NM	3145.78	3168.47	NM	NM	AB	NM	3220.24	3295.29	NM
2/11/02	3297.01	3146.02	3166.87	3144.52	3209.28	AB	3229.42	3217.02	3295.24	3195.22
8/12/02	3297.14	3143.80	3164.49	NM	NM	AB	3226.19	NM	3294.99	3194.51
1/21/03	NM	3146.22	3168.52	NM	NM	AB	AB	NM	3294.99	NM
7/14/03	3302.39	3147.69	3169.23	NM	NM	AB	AB	NM	3296.84	3196.4
3/16/04	3301.23	3148.28	3168.11	NM	3216.32	AB	AB	NM	3296.19	3196.21
9/30/04	NM	3149.83	3169.62	NM	NM	AB	AB	NM	3296.79	3196.38
3/30/05	3302.06	3149.09	3168.89	NM	NM	AB	AB	NM	3296.24	3196.57
10/03/05	NM	3146.81	3165.31	NM	NM	AB	AB	NM	3294.74	3196.02
4/3/06	NM	3147.74	3166.32	NM	NM	AB	AB	NM	3295.10	3196.18
9/27/06	3300.67	3147.49	3167.52	NM	NM	AB	AB	NM	3294.85	3195.85
4/3/07	NM	3148.25	3167.58	NM	NM	AB	AB	NM	3295.41	NM
9/18/07	NM	3145.90	3162.22	NM	NM	AB	AB	NM	3293.98	3195.06
3/10/08	NM	3147.54	3167.15	NM	NM	AB	AB	3230.95	3294.67	NM
9/8/08	NM	3146.05	3163.29	NM	NM	AB	AB	3210.28	3294.62	3195.16
3/11/09	NM	3147.11	3164.29	NM	NM	AB	AB	3214.63	3294.81	NM
9/1/09	NM	3147.34	3165.14	NM	NM	AB	AB	3215.32	3295.72	3196.09
3/17/10	NM	3149.62	3168.37	NM	NM	AB	AB	3225.45	3297.28	NM
9/13/10	NM	3146.86	3162.43	NM	NM	AB	AB	NM	3294.89	3195.97
3/16/11	3299.25	3147.91	3164.80	3146.92	3205.59	AB	AB	NM	3295.61	3195.89

* MW-8 was damaged and the steel casing bent afecting the ability to accurately measure depth to groundwater.

1) All measurements in feet above mean sea level.

2) GS = Ground Surface.

3) MP = Measuring Point (Top of PVC).

4)NM = Not measured.

5) AB = Well Abandoned.

Table 1B. Groundwater Elevation Data

Watauga County Landfill, Facility ID No. 95-02

Well ID	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	MW-19
GS Elevation	3156.44	3156.82	3117.39	3117.00	3117.15	3141.42	3181.14	3117.12	312S.00
MP Elevation	3159.60	3159.15	3119.72	3120.00	3120.65	3142.72	3183.62	3119.63	3140.00
DATE	GROUNDWATER ELEVATION								
6/20/94	3146.25	3148.11	3100.06	3112.06	3108.73	3137.40	3165.69	3101.70	-
9/27/94	3146.38	3148.37	3100.15	3112.11	3108.83	3137.04	3165.79	3101.77	-
2/6/95	3146.38	3148.54	3100.33	3112.48	3109.10	3138.11	3166.57	3102.05	-
4/11/95	3146.60	3148.57	3100.19	3112.25	3108.78	3137.61	3166.14	3101.98	-
7/10/95	3147.07	3148.67	3100.10	3112.26	3108.69	3138.18	3165.51	3101.69	-
4/9/96	3146.87	3148.77	3100.16	3112.41	3108.80	3138.05	3165.84	3101.82	-
4/8/97	3147.32	3149.67	NM	NM	3108.74	AB	3166.45	NM	3135.15
1/13/98	3147.12	3149.50	3099.97	3112.56	3108.91	AB	3165.02	3101.31	3129.79
6/23/98	3147.78	3150.04	NM	NM	3108.86	AB	3168.79	NM	NM
1/11/99	3147.19	3149.69	3099.67	3112.81	3108.86	AB	3163.78	3101.07	NM
7/12/99	3148.23	3150.40	NM	NM	NM	AB	3166.54	NM	NM
2/1/00	3147.22	3149.97	3099.41	3112.28	3108.47	AB	3165.85	3100.86	NM
8/8/00	3147.81	3150.21	NM	NM	NM	AB	3165.76	NM	NM
2/12/01	3147.20	3149.92	3099.69	3112.32	3108.56	AB	3164.41	3101.40	NM
8/7/01	NM	3150.38	NM	NM	NM	AB	3168.15	NM	NM
2/11/02	3147.57	3150.29	3099.91	3112.58	3108.80	AB	3166.52	3101.58	3115.35
8/12/02	3147.44	3149.98	NM	NM	NM	AB	3163.58	NM	NM
1/21/03	NM	3150.50	NM	NM	NM	AB	3168.18	NM	NM
7/14/03	3148.51	3150.88	NM	NM	NM	AB	3168.76	NM	NM
3/16/04	3146.78	3149.91	NM	NM	NM	AB	3167.83	NM	NM
9/30/04	3147.54	3150.50	NM	NM	NM	AB	3168.35	NM	NM
3/30/05	3146.38	3149.13	NM	NM	NM	AB	3168.50	NM	NM
10/03/05	3145.09	3148.21	NM	NM	NM	AB	3165.09	NM	NM
4/3/06	3145.59	3148.50	NM	NM	NM	AB	3166.07	NM	3125.58
9/27/06	3145.77	3148.61	NM	NM	NM	AB	3167.21	NM	NM
4/3/07	NM	3148.65	NM	NM	NM	AB	3167.39	NM	NM
9/18/07	3144.83	3147.65	NM	NM	NM	AB	3163.46	NM	NM
3/10/08	NM	3148.52	NM	NM	NM	AB	3167.07	NM	NM
9/8/08	3145.45	3147.94	NM	NM	NM	AB	3163.49	NM	NM
3/11/09	NM	3148.25	NM	NM	NM	AB	3164.37	NM	NM
9/1/09	3146.12	3148.47	NM	NM	NM	AB	3165.28	NM	NM
3/17/10	NM	3149.14	NM	NM	NM	AB	3167.74	NM	NM
9/13/10	3145.02	3147.54	NM	NM	NM	AB	3163.74	NM	NM
3/16/11	3146.03	3148.01	3100.49	3113.40	3109.35	AB	3164.85	3102.28	3122.85

1) All measurements in feet above mean sea level.
2) GS = Ground Surface.
3) MP = Measuring Point (Top of PVC).
4)NM = Not measured.
5) AB = Well Abandoned.

APPENEDIX B

Analytical Data Tables

Table 2A. Summary of Analytical Results for Groundwater Samples-Organic Parameters (2010 -present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

Upgradient Well = MW-1
All Results in ug/L.

Date	MW-1	Q	MW-2	Q	MW-3	Q	MW-8	Q	MW-9	Q	MW-10	Q	MW-11	Q	MW-12	Q	MW-15	Q	MW-17	Q	MW19	Q	LOQ	Method	MCL	GPS	NC 2L	SWSL
BENZENE																									CAS# 71-43-2			
3/16/2011	-		U		U		U		2		-		-		0.15	J	-		U		-		0.5	8260B	5	-	1	1
9/14/2010	U		U		U		U		2.8		U		U		-	J	U		U		U		0.5	8260B				
9/14/2010	-		-		-		-		-		-		-		0.16	J	-		-		-		0.84	8260B				
3/18/2010	-		U		U		U		3		-		-		0.23	J	-		U		-		0.5	8260B				
CHLOROBENZENE																									CAS# 108-90-7			
3/16/2011	-		U		U		U		0.37	J	-		-		0.21	J	-		U		-		0.5	8260B	100	-	50	3
9/14/2010	-		-		-		-		-	J	-		-		U		-		-		-		0.84	8260B				
9/14/2010	U		U		U		U		0.42	J	U		U		-		U		U		U		0.5	8260B				
3/18/2010	-		U		U		U		0.41	J	-		-		0.23	J	-		U		-		0.5	8260B				
CHLOROETHANE																									CAS# 75-00-3			
3/16/2011	-		U		1.9		U		1.9		-		-		6.4		-		U		-		0.5	8260B	-	-	3000	10
9/14/2010	-		-		-	J	-	J	-	J	-		-	J	7	J	-		-		-		0.84	8260B				
9/14/2010	U		U		5.1	J	2.2	J	4.2	J	U		2.1	J	-	J	U		U		U		0.5	8260B				
3/18/2010	-		U		2.6		U		3.8		-		-		6.5		-		U		-		0.5	8260B				
1,4-DICHLOROBENZENE																									CAS# 106-46-7			
3/16/2011	-		U		U		U		1.7		-		-		1.7		-		U		-		0.5	8260B	75	-	6	1
9/14/2010	-		-		-		-		-		-		-		1.4		-		-		-		0.84	8260B				
9/14/2010	U		U		U		U		1.6		U		U		-		U		U		U		0.5	8260B				
3/18/2010	-		U		U		U		1.2		-		-		1.5		-		U		-		0.5	8260B				
DICHLORODIFLUOROMETHANE																									CAS# 75-71-8			
3/16/2011	-		U		U		U		0.49	J	-		-		U		-		U		-		0.5	8260B	-	-	1000	5
9/14/2010	-		-		-		-		-		-		-		U		-		-		-		0.84	8260B				
9/14/2010	U		U		U		U		0.55		U		U		-		U		U		U		0.5	8260B				
3/18/2010	-		U	J	U	J	U	J	0.43	J	-		-		0.14	J	-		0.038	J	-		0.5	8260B				
1,1-DICHLOROETHANE																									CAS# 75-34-3			
3/16/2011	-		21		7.5		0.12	J	7.7		-		-		17		-		2		-		0.5	8260B	-	NE	8	5
9/14/2010	-		-		-		-		-		-		-		17		-	J	-		-		0.84	8260B				
9/14/2010	U		-		10		0.71		10		8.9		11		-		0.1	J	2.2		1.4		0.5	8260B				
9/14/2010	-		48		-		-		-		-		-		-		-	J	-		-		8.3	8260B				
3/18/2010	-		56		7.8		0.057	J	13		-		-		19		-		1		-		0.5	8260B				

See last page of this report for definitions.

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Table 2A. Summary of Analytical Results for Groundwater Samples-Organic Parameters (2010 -present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

Upgradient Well = MW-1
All Results in ug/L.

Date	MW-1	Q	MW-2	Q	MW-3	Q	MW-8	Q	MW-9	Q	MW-10	Q	MW-11	Q	MW-12	Q	MW-15	Q	MW-17	Q	MW19	Q	LOQ	Method	MCL	GPS	NC 2L	SWSL
1,2-DICHLOROETHANE																									CAS# 107-06-2			
3/16/2011	-		U		U		U		U		-		-		0.32	J	-		U		-		0.5	8260B	5	-	0.4	1
9/14/2010	-		-		-	J	-		-		-		-	J	0.34	J	-		-		-		0.84	8260B				
9/14/2010	U		U		0.18	J	U		U		U		0.12	J	-	J	U		U		U		0.5	8260B				
3/18/2010	-		U		0.11	J	U		0.065	J	-		-		0.4	J	-		U		-		0.5	8260B				
1,1-DICHLOROETHENE																									CAS# 75-35-4			
3/16/2011	-		39		U		U		U		-		-		0.25	J	-		U		-		0.5	8260B	7	-	7	5
9/14/2010	-		-		-		-		-		-		-	J	0.23	J	-		-		-		0.84	8260B				
9/14/2010	U		-		U		U		U		12		0.083	J	-	J	U		U		U		0.5	8260B				
9/14/2010	-		70		-		-		-		-		-	J	-	J	-		-		-		8.3	8260B				
3/18/2010	-		69		0.072	J	U		U		-		-		0.27	J	-		U		-		0.5	8260B				
CIS-1,2-DICHLOROETHENE																									CAS# 156-59-2			
3/16/2011	-		U		17		0.042	J	5.2		-		-		35		-		3.5		-		0.5	8260B	70	-	70	5
9/14/2010	U		0.2	J	25		0.51		6.9		U		19		-		U		3.5		0.17	J	0.5	8260B				
9/14/2010	-		-	J	-		-		-		-		-		35		-		-		-	J	0.84	8260B				
3/18/2010	-		0.26	J	21		U		8.2		-		-		41		-		1.9		-		0.5	8260B				
TRANS-1,2-DICHLOROETHENE																									CAS# 156-60-5			
3/16/2011	-		U		0.26	J	U		0.24	J	-		-		0.44	J	-		0.059	J	-		0.5	8260B	100	-	100	5
9/14/2010	-		-		-	J	-		-	J	-		-	J	0.49	J	-		-	J	-		0.84	8260B				
9/14/2010	U		U		0.35	J	U		0.32	J	U		0.24	J	-	J	U		0.082	J	U		0.5	8260B				
3/18/2010	-		U		0.29	J	U		0.34	J	-		-		0.54		-		U		-		0.5	8260B				
1,2-DICHLOROPROPANE																									CAS# 78-87-5			
3/16/2011	-		U		0.21	J	U		0.15	J	-		-		0.54		-		U		-		0.5	8260B	5	-	0.6	1
9/14/2010	-		-		-	J	-		-	J	-		-	J	0.56	J	-		-		-		0.84	8260B				
9/14/2010	U		U		0.37	J	U		0.24	J	U		0.41	J	-	J	U		U		U		0.5	8260B				
3/18/2010	-		U		0.31	J	U		0.28	J	-		-		0.77		-		U		-		0.5	8260B				
METHYLENE CHLORIDE																									CAS# 75-09-2			
3/16/2011	-		U		U		U		U		-		-		U	A	-		U		-		0.5	8260B	5	-	5	1
9/14/2010	U		U		U		U		U		U		U		-		U		U		U		0.5	8260B				
9/14/2010	-		-		-		-		-		-		-		U		-		-		-		0.84	8260B				
3/18/2010	-		U		U		U		U		-		-		U		-		U		-		0.5	8260B				

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Table 2A. Summary of Analytical Results for Groundwater Samples-Organic Parameters (2010 -present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

Upgradient Well = MW-1
All Results in ug/L.

Date	MW-1	Q	MW-2	Q	MW-3	Q	MW-8	Q	MW-9	Q	MW-10	Q	MW-11	Q	MW-12	Q	MW-15	Q	MW-17	Q	MW19	Q	LOQ	Method	MCL	GPS	NC 2L	SWSL
TETRACHLOROETHENE																									CAS# 127-18-4			
3/16/2011	-		1.3	J	0.19	J	U	J	0.56	J	-		-		1.7	J	-		0.53	J	-		0.5	8260B	5	-	0.7	1
9/14/2010	U		3.3		U		U		0.83		2.1		0.39	J	-	J	U		0.43	J	0.84		0.5	8260B				
9/14/2010	-		-		-		-		-		-		-	J	0.82	J	-		-	J	-		0.84	8260B				
3/18/2010	-		4.8		0.13	J	U		0.36	J	-		-		2.8		-		1.5		-		0.5	8260B				
1,1,1-TRICHLOROETHANE																									CAS# 71-55-6			
3/16/2011	-		160		U		U		U		-		-		U		-		U		-		0.5	8260B	200	NE	200	1
9/14/2010	-		-		-		-		-		-		-		U		-	J	-		-		0.84	8260B				
9/14/2010	-		-		-		-		-		58		-		-		-	J	-		-		1	8260B				
9/14/2010	U		-		U		U		U		-		U		-		0.35	J	U		U		0.5	8260B				
9/14/2010	-		330		-		-		-		-		-		-		-	J	-		-		8.3	8260B				
3/18/2010	-		470		U		0.1	J	U		-		-		0.062	J	-		U		-		0.5	8260B				
TRICHLOROETHENE																									CAS# 79-01-6			
3/16/2011	-		0.22	J	2.1		U		0.83		-		-		3.4		-		0.66		-		0.5	8260B	5	-	3	1
9/14/2010	-		-	J	-		-	J	-		-		-		3.6		-		-		-		0.84	8260B				
9/14/2010	U		0.44	J	2.8		0.29	J	1.1		U		2.1		-		U		0.73		U		0.5	8260B				
3/18/2010	-		0.54		2.3		U		1.2		-		-		3.9		-		0.43	J	-		0.5	8260B				
VINYL CHLORIDE																									CAS# 75-01-4			
3/16/2011	-		U		U		U		1.2		-		-		1.2		-		U		-		0.5	8260B	2	-	0.03	1
9/14/2010	-		-	J	-		-		-	J	-		-	J	1.3	J	-		-		-		0.84	8260B				
9/14/2010	U		0.37	J	U		U		2	J	U		0.37	J	-	J	U		U		U		0.5	8260B				
3/18/2010	-		0.55	J	0.23	J	U		1.9	J	-		-		1.7	J	-		U		-		0.5	8260B				

Definitions: Q Denotes qualifier. LOQ Denotes limit of quantitation. U Denotes paraameter not detected above LOQ. J Denotes parameter reported above LOQ and associated result is estimated. When used with a "U" (i.e., "UJ"), denotes LOQ is estimated. UA Denotes parameter not detected above adjusted sample LOQ. R Denotes result rejected. MCL - EPA Maximum Contaminant Limit. GPS - NC Groundwater Protection Standards. NC 2L - North Caroline Graundwater Quality Standard (T15A: 02L.0200). SWSL - NCDENR Solid Waste Section Limit.

See last page of this report for definitions.

Table 2B. Summary of Analytical Results for Surface Water Samples-Organic Parameters (2010-present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

All Results in ug/L.

Date	S-1	Q	S-2	Q	S-3	Q	S-4	Q	S-5	Q	S-6	Q	LOQ	Method	MCL	GPS	NC 2B
BENZENE															CAS# 71-43-2		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		1.1	J	U		U		U		U		5	SOM01.2			
CHLOROBENZENE															CAS# 108-90-7		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	100	-	3
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		0.58	J	U		U		U		U		5	SOM01.2			
CHLOROETHANE															CAS# 75-00-3		
3/16/2011	U		27		U		U		U		U		5	SOM01.2 VOA LOW	-	-	10
9/14/2010	U		25		U		2.4	J	U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		16		U		U		U		U		5	SOM01.2			
1,4-DICHLOROBENZENE															CAS# 106-46-7		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	75	-	1
9/14/2010	U		2.5	J	U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		2.2	J	U		U		U		U		5	SOM01.2			
DICHLORODIFLUOROMETHANE															CAS# 75-71-8		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	-	-	5
9/14/2010	U		U		U		U		3.3	J	U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		0.43	J	U		5	SOM01.2			
1,1-DICHLOROETHANE															CAS# 75-34-3		
3/16/2011	U		1.5	J	U		1.5	J	U		U		5	SOM01.2 VOA LOW	-	NE	5
9/14/2010	0.59	J	2.5	J	U		3.9	J	U		U	J	5	SOM01.2 VOA LOW			
3/18/2010	U		2	J	U		1.4	J	U		U		5	SOM01.2			
1,2-DICHLOROETHANE															CAS# 107-06-2		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			
1,1-DICHLOROETHENE															CAS# 75-35-4		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	7	-	5
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			

See last page of this report for definitions.

Table 2B. Summary of Analytical Results for Surface Water Samples-Organic Parameters (2010-present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

All Results in ug/L.

Date	S-1	Q	S-2	Q	S-3	Q	S-4	Q	S-5	Q	S-6	Q	LOQ	Method	MCL	GPS	NC 2B
CIS-1,2-DICHLOROETHENE															CAS# 156-59-2		
3/16/2011	U		0.65	J	U		2.9	J	U		U		5	SOM01.2 VOA LOW	70	-	5
9/14/2010	U		0.79	J	U		8.3		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		0.96	J	U		3.4	J	U		U		5	SOM01.2			
TRANS-1,2-DICHLOROETHENE															CAS# 156-60-5		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	100	-	5
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			
1,2-DICHLOROPROPANE															CAS# 78-87-5		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		U		U		U	J	5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			
METHYLENE CHLORIDE															CAS# 75-09-2		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			
TETRACHLOROETHENE															CAS# 127-18-4		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			
1,1,1-TRICHLOROETHANE															CAS# 71-55-6		
3/16/2011	U		U		U		U		1.6	J	U		5	SOM01.2 VOA LOW	200	NE	1
9/14/2010	U		U		U		U		0.89	J	U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		0.71	J	U		5	SOM01.2			
TRICHLOROETHENE															CAS# 79-01-6		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	5	-	1
9/14/2010	U		U		U		1.5	J	U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		0.52	J	U		U		5	SOM01.2			
VINYL CHLORIDE															CAS# 75-01-4		
3/16/2011	U		U		U		U		U		U		5	SOM01.2 VOA LOW	2	-	1
9/14/2010	U		U		U		U		U		U		5	SOM01.2 VOA LOW			
3/18/2010	U		U		U		U		U		U		5	SOM01.2			

Definitions: Q Denotes qualifier. LOQ Denotes limit nf quantitation. U Denotes porameter not detected above LOQ. J Denotes parameter reported above LOQ and associated result is estimated. When used with a "U" (i.e., "UJ"), denotes LOQ is estimated. UA Denotes parameter not detected above adjusted sample LOQ. R Denotes result rejected. MCL - EPA Maximum Contaminant Limit. GPS - NC Groundwater Protection Standards. NC 2L - North Carnline Groundwater Quality Standard (T15A: 02L.0200).

See last page of this report for definitions.

Table 2C. Summary of Analytical Results for Groundwater Samples-Inorganic Parameters (2010 -present)
Core Groundwater Monitoring Wells
Watauga Landfill, Facility ID 95-02

Upgradient Well = MW-1
All Results in ug/L.

Date	MW-2	Q	MW-3	Q	MW-8	Q	MW-9	Q	MW-12	Q	MW-17	Q	LOQ	Method	MCL	GPS	NC 2L	SWSL
Barium															CAS# 7440-39-3			
3/16/2011	214		156	J	48.5	J	612		303		355		200	ILM05.4	2000	-	700	100
3/18/2010	304	J	128	J	232	J	604	J	330	J	521	J	200	ILM05.4				
Chromium															CAS# 7440-47-3			
3/16/2011	U		7.4	J	8.7	J	U		U		U		10	ILM05.4	100	-	10	10
3/18/2010	U		U		30		U		U		U		10	ILM05.4				
Cobalt															CAS# 7440-48-4			
3/16/2011	U		U		U		U		U		U		50	ILM05.4	-	1	NE	10
3/18/2010	U		U		9.3	J	6.8	J	U		3.7	J	50	ILM05.4				
Iron															CAS# 7439-89-6			
3/16/2011	U		3040		3200		545		95.9	J	249		100	ILM05.4		-	300	300
3/18/2010	1600	J	1860	J	9620	J	67.8	J	U	J	455	J	100	ILM05.4				
Nickel															CAS# 7440-02-0			
3/16/2011	U		U		U		U		U		U		40	ILM05.4	-	-	100	50
3/18/2010	2.8	J	3.3	J	14.1	J	U		3.4	J	4.1	J	40	ILM05.4				
Vanadium															CAS# 7440-62-2			
3/16/2011	U		U		U		U		U		U		50	ILM05.4	-	0.3	NE	25
3/18/2010	3.9	J	4.6	J	19.5	J	U		0.9	J	1.1	J	50	ILM05.4				

Definitions: Q Denotes qualifier. LOQ Denotes limit of quantitation. U Denotes parameter not detected above LOQ. J Denotes parameter reported above LOQ and associated result is estimated. When used with a "U" (i.e., "UJ"), denotes LOQ is estimated. UA Denotes parameter not detected above adjusted sample LOQ. R Denotes result rejected. MCL - EPA Maximum Contaminant Limit. GPS - NC Groundwater Protection Standards. NC 2L - North Caroline Groundwater Quality Standard (T15A: 02L.0200). SWSL - NCDENR Solid Waste Section Limit.

See last page of this report for definitions.

Table 3. Detected Non-Target Organic Parameters - March 2011

Watauga County Landfill, Facility ID 95-02

Sample ID	MW-3		MW-12	
Parameter	Results (µg/L)			
Chloroform	0.18	J	0.31	J

Notes:

J Denotes an estimated value.

U Denotes not detected (the associated numerical value is the laboratory Limit of Quantitation).

Organic parameters were analyzed in accordance with EPA SW-846 Method 8260 (25 ml purge).

Table 4. Summary of Private Well Sampling Results - March 2011
Watauga County Landfill, Facility ID No. 95-02

Analyte	Result (µg/l)	QL/CRQL (µg/l)	MCL(µg/l)	NC 2L(µg/l)
Well Reference No. 2 - Residential 2347 Hwy. 421 S. (Bolick Rental)				
Chloroethane	0.8	0.5	n/a	3,000
1,4-Dichlorobenzene	0.2 J	0.5	n/a	6
Dichlorodifluoromethane	0.3 J	0.5	n/a	1,000
1,1-Dichloroethane	6.6	0.5	n/a	6
1,1-Dichloroethene	0.2 J	0.5	7	7
cis-1,2-Dichloroethene	1	0.5	70	70
Trichloroethene	0.2 J	0.5	5	3
Well Reference No. 5 (BREMCO) - Commercial 2491 Hwy 421 S.				
Benzene	0.3 J	0.5	5	1
Chlorobenzene	0.2 J	0.5	100	50
Chloroethane	6.3	0.5	n/a	3,000
1,4-Dichlorobenzene	1.8	0.5	n/a	6
Dichlorodifluoromethane	0.7	0.5	n/a	1,000
1,1-Dichloroethane	22	2.5*	n/a	6
1,2-Dichloroethane	0.2 J	0.5	5	0.4
1,1-Dichloroethene	1.1	0.5	7	7
cis-1,2-Dichloroethene	4.4	0.5	70	70
trans-1,2-Dichloroethene	0.2 J	0.5	100	100
1,2-Dichloropropane	0.2 J	0.5	5	0.6
Methylene Chloride	0.9	0.5	5	5
Tetrachloroethene	0.3 J	0.5	5	0.7
Trichloroethene	0.7	0.5	5	3
Vinyl Chloride	0.2 J	0.5	2	0.3
Well Reference No. 15 - Residential 2711 Hwy. 421 S. (Greer Residence)				
Chloromethane	0.2 J	0.5	n/a	3
Well Reference No. 16 - Residential 2737 Hwy 421 S. (Williamson Residence)				
cis-1,2-Dichloroethene	0.2 J	0.5	70	70
Tetrachloroethene	0.2 J	0.5	5	0.7
Well Reference H+G Produce - Commercial 230 Cabbage Row				
Tetrachloroethene	0.1 J	0.5	5	0.7

Definitions:

QL - Laboratory quantitation limit.

CRQL - Laboratory contract required quantitation limit.

J - Analyte is estimated; analyte detected between the laboratory detection limit and QL/CRQL.

Notes:

1. All samples were analyzed by EPA Method 524.2 at Lancaster Laboratories of Lancaster, PA.
2. Lancaster Laboratories NC Certification Number 42705.
3. Target analytes not listed above were not detected at or above the laboratory detection limit; see laboratory analytical data package for full analyte reporting list.
4. For method reference CLP SOW - use CRQL.

* Sample dillution - 5X.

FB#2

03/16/11

Watauga Co LF
6520-39
DAS/CJB

FB#2

General Notes

Weather - Overcast 40's
PPE - Eye Protection, Nitrile gloves
Calibrations - YSI 650 MDS
- pH: 4.00=4.00, 7.00=7.00, 10.00=9.98
- Conductivity reads 1,413 µS in 1,413 standard
- DO% at 760 mmHg pressure read 100%

Static Water Level Table

Well	DTW	Notes
MW-1	42.55	
MW-2	5.03	
MW-3	18.32	
MW-8	Band in casing, unable to read.	
MW-9	63.62	
MW-10	7.98	
MW-11	13.57	
MW-12	11.14	
MW-15	11.30	
MW-17	18.77	
MW-19	17.15	
~~MW-4~~		

Well		
MW-4	5.60	
MW-5	62.10	No Cap
MW-13	19.23	Rusty Lock
MW-14	6.60	Rusty Lock Key 0444
MW-18	17.35	Rusty Lock

MW-9

TD: 86.40
DTW: 63.62
22.78 × 0.163 × 3 = 11.14 gallons

Begin Purge: (1200)
Initial Purge: Clear

Time	Temp(°C)	Cond(µS)	DO(mg/L)	pH	ORP(mV)	Purge R(gpm)	Vol(gal)	Desc
(12:01)	12.63	287	3.69	5.86	200.7	0.5	0.5	Clear
(12:08)	12.89	311	3.99	5.88	185.0	"	4.0	"
(12:16)	12.88	311	3.79	5.89	182.4	"	8.0	"
(12:24)	13.12	323	3.61	5.91	170.4	"	12.0	"

(12:24) Well purge complete @ ~12.0 gallons

(gal) Desc
0 Clear
0 Clear
0 Clear
0 Clear

(gal) Desc
0 Clear
0 Clear
0 Clear
0 Clear

3/16/11 Watauga Co LF FB#2
6528-39
CSB/DAS

MW-9 (Cont. from p. 87)
Sample Time: (12:30)
Samples Collected: (3)8260, (1) TM CLP

MW-2
TD: 177.50 Begin Purge: (13:30)
DTW: 5.03 Initial Purge: Clear
172.47 x 0.65 x 3 = 336.32 gallons

Time	Temp(°C)	Cond(µs)	DO(mg/L)	pH	ORP(mV)	Purge K (gpm)	Vol(gal)	Desc
(13:32)	11.45	261	3.03	7.27	208.7	4.0	8.0	Clear
(13:58)	11.63	259	1.57	7.53	217.6	"	112.0	"
(14:26)	11.67	248	1.31	7.52	214.0	"	224.0	"
(14:54)	11.57	248	1.24	7.56	205.0	"	336.0	"

(14:54) Well purge complete @ 336 gallons.

Sample Time: (15:00)
Samples Collected: (3)8260, (1) TM CLP

MW-8
TD: 67.00 Begin Purge: (15:30)
DTW: — Unable to read, Bend in casing Initial Purge: Clear
x 0.163 x 3 = gallons

Time	Temp(°C)	Cond(µs)	DO(mg/L)	pH	ORP(mV)	Purge K (gpm)	Vol(gal)	Desc.
(15:31)	11.20	373	7.70	6.83	135.9	0.5	0.5	Cloudy
(15:36)	12.60	191	4.45	6.53	74.6	"	3.0	Cloudy
(15:42)	12.71	92	5.52	6.52	91.4	"	6.0	Cloudy
(15:54)	12.93	72	5.39	6.46	106.9	"	12.0	Cloudy

(15:54) Well purged DRY @ 12.0 gallons. Collect samples tomorrow.

FB#2

3/16/11

Watauga Co LF

6520-39
CJB/DAS

MW-17

TD - 94.54
DTW - 18.77

Begin Purge: (16:20)
Initial Purge: Clear

75.77 × 0.163 × 3 = 37.05 gallons

Time	Temp(°C)	Cond(µs)	DO(mg/L)	pH	ORP(mV)	Purge K (gpm)	Vol(gal)	Desc
(16:21)	11.95	244	2.75	5.90	154.3	1.0	1.0	Clear
(16:32)	12.90	245	2.89	5.88	161.6	12.0	1.0	Clear
(16:~~44~~ 33) CJB 3/16/11	13.01	254	1.78	5.90	166.0	~~24.0~~ 13.0 CJB 3/16/11	1.0	Clear
(~~14:3~~)							~~1.0~~	~~Clear~~

(16:33) Well purged DRY @ ~13.0 gallons, collect samples tomorrow.

MW-3

TD: 39.60
DTW: 18.32

Begin Purge: (16:45)
Initial Purge: Clear

21.28 × 0.163 × 3 = 10.40 gallons

Time	Temp(°C)	Cond(µs)	DO(mg/L)	pH	ORP(mV)	Purge K (gpm)	Vol(gal)	Desc
(16:46)	12.00	343	2.18	5.88	176.8	0.5	0.5	Cloudy
(16:51)	12.87	344	2.16	5.88	176.1	"	3.0	Cloudy
(16:57)	13.01	344	2.14	5.89	180.1	"	6.0	Cloudy
(17:05)	13.00	344	2.18	5.88	184.0	"	11.0	Cloudy

(17:05) Well purged @ ~11.0 gallons, collect samples tomorrow.

MW-12

TD: 72.75
DTW: 11.14

Begin Purge: (17:25)
Initial Purge: Clear

61.61 × 0.163 × 3 = 30.13 gallons

Time	Temp(°C)	Cond(µs)	DO(mg/L)	pH	ORP(mV)	Purge K (gpm)	Vol(gal)	Desc
(17:26)	12.10	444	0.68	6.03	180.6	1.0	1.0	Clear
(17:36)	12.72	445	0.71	6.02	184.7	1.0	11.0	"
(17:47)	12.79	445	0.73	6.01	186.6	1.0	22.0	"
(17:58)	12.89	444	0.75	6.02	188.9	1.0	33.0	"

(17:58) Well purged @ 33.0 gallons, collect sample tomorrow.

Vol(gal)	Desc
8.0	Clear
12.0	"
24.0	"
36.0	"

Vol(gal)	Desc.
0.5	Cloudy
3.0	Cloudy
6.0	Cloudy
12.0	Cloudy

t samples

3/17/11 Watauga Co LF FB#2

6520-39

CJB/DAS

General Notes

Weather:

PPE: Nitrile gloves, eye protection

Calibrations: YSI 650 MDS

- pH: 4.00=4.00, 7.00=7.00, 10.00=10.00
- Conductivity reads 1,413 µS in 1,413 µS standard
- DO% at 760 mmHg pressure reads 100% DO.

Notes: Collected remaining groundwater samples, stream samples, residential samples, and DTW at additional wells.

Spring Sample Collection Table - sample date for all springs 3/17/11

Spring	Temp(°C)	Cond(µS)	DO(mg/L)	pH	ORP(mV)	Time	Samples Collected
S-1	7.36	192	10.70	7.40	71.6	(0810)	(3) CLP Volatiles
S-2	13.64	727	1.40	6.23	25.0	(0820)	" " "
S-3	8.73	293	10.54	7.60	131.0	(0835)	" " "
S-4	8.66	239	8.52	6.14	159.9	(0850)	" " "
S-5	10.11	239	3.16	6.70	58.6	(0800)	" " "
S-6	6.31	91	10.36	7.12	80.0	(0905)	" " "

Residence Sample Collection Table - sample date for all residence 3/17/11

Residence	Time	Samples Collected	Notes
Res-1	(1055)	(3) Volatiles 524.2	
Res-2	(1040)	" " "	Fenced out, WALK
Res-15	(1010)	" " "	
Res-16	(1000)	" " "	
H+G Produce	(0945)	" " "	
Bremco	(1110)	" " "	Sampled @ 326' w/ hydrosleeve

3/17/11 Watauga Co LF FB#2

6520-39
CJB/DAS

MW-8

Sample Time: (1215)
Samples Collected: (3) 8260, (1) CLP TM

MW-17

Sample Time: (1240)
Samples Collected: (3) 8260, (1) CLP TM

MW-3

Sample Time: (1145)
Samples Collected: (9) 8260, (3) CLP TM

MW-12

Sample Time: (1300)
Samples Collected: (3) 8260, (1) CLP TM

COMPLETED
3/24/11 EBC

PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF ANALYSIS

CONSTITUENT	3/23/93**	2/19/01**	8/7/01***	11/02***	3/14/02****	11/22/03****	7/15/03****	3/16/04****	9/29/04****	3/30/05^^	10/05/05^^	4/05/05^^	9/27/06^^	4/3/07^^	9/18/07^^	3/11/08^^	9/9/08^^	3/12/09^^	9/2/09^^	3/18/10^^	NCS	MCL
2737 Hwy 421 S (Well Ref. No.16) Connected to public water in 2004.																						
Methyl-t-butyl-ether	ND	<1.0	ND	ND	1.2	1.2	ND	1.5	1.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	---
cis-1,2-Dichloroethene	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5	ND	0,5(J)	0.3 (J)	70	70
Tetrachloroethene	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	0.2(J)	0.1(J)	0.7	5

CONSTITUENT	3/18/93*	5/11/93**	9/21/93**	11/2/99**	9/6/00**	3/30/05^^	3/11/08^^	NCS	MCL
139,152,163,166 Margot Rd; 151,180 Greenbriar Ln; 306, 344 Greenbriar Rd. Shared Well #1 (8 Houses) (Well Ref. No.13)									
sec-Butylbenzene	0.2	ND	ND	ND	ND	ND	ND	70	---
Carbon Tetrachloride	0.1	ND	ND	ND	ND	ND	ND	0.3	5
Methylene Chloride	1.5	ND	ND	ND	ND	ND	ND	5	5
alpha-Chlordane	0.4	ND	ND	ND	ND	ND	ND	-	2
gamma-Chlordane	0.3	ND	ND	ND	ND	ND	ND	-	2
1,4-Dichlorobenzene	ND	ND	ND	trace	ND	ND	ND	6	75
2-Butanone	ND	ND	ND	ND	2.3J	ND	ND	4000	---
Chloroform	ND	ND	ND	trace	ND	ND	ND	70	80

CONSTITUENT	3/5/93**	4/26/95**	4/9/96**	2/10/98**	NCS	MCL
Mack Brown Chevrolet dealership, 2704/2705 Hwy 421 S (Well Ref. No.7) Public water in 2000.						
Chloroform	ND	ND	ND	39.7	70	80
Bromodichloromethane	ND	ND	ND	5	0.6	80
Methyl-t-butyl-ether	ND	24.4	2.5	ND	20	---

CONSTITUENT	3/18/93*	3/30/94**	11/12/95**	10/24/95*	4/9/96**	10/9/96**	6/12/97**	2/10/98**	6/9/99**	NCS	MCL
118, 132, 138, 191 Grapevine Circle, Shared Well #2 (4 Houses) (Well Ref. No.14) Connected to public water in 2000.											
1,4-Dichlorobenzene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	6	75
1,1-Dichloroethane	ND	ND	ND	<1.0	<1.0	<1.0	ND	ND	ND	6	---
1,1-Dichloroethene	ND	<1.0	<1.0	ND	ND	ND	ND	ND	ND	7	7
Tetrachloroethene	ND	ND	ND	trace	ND	trace	ND	ND	ND	0.7	5
1,1,1-Trichoroethane	ND	<1.0	ND	trace	ND	ND	ND	ND	ND	200	200
Chloroform	ND	trace	ND	9.0	ND	ND	ND	ND	ND	70	80
Bromodichloromethane	ND	ND	ND	1.4	ND	ND	ND	ND	ND	0.6	80
Dibromochloromethane	ND	ND	ND	<1.0	ND	ND	ND	ND	ND	0.4	80
2-Chlorotoluene	ND	ND	ND	1.2	ND	ND	ND	ND	ND	100	---
4-Chlorotoluene	ND	ND	ND	1.0	ND	ND	ND	ND	ND	---	---
Methyl Ethyl Ketone	ND	ND	ND	24.6	ND	ND	ND	ND	ND	4000	---
Tetrahydrofuran	ND	ND	ND	13.4	ND	ND	ND	ND	ND	---	---

CONSTITUENT	3/23/93**	5/20/96**	10/9/96**	6/12/97**	6/9/99**	NCS	MCL
601 Green Briar Rd (Well Ref. No.20) Connected to public water in 2000.							
1,1,1-Trichloroethane	trace	trace	trace	trace	ND	200	200
Methyl-t-butyl-ether	ND	ND	ND	ND	<1.0	20	---
Chloroform	<1.0	<1.0	NDT	ND	<1.0	70	80

CONSTITUENT	10/20/93**	2/21/96**	8/19/98**	2/18/99**	9/6/00**	NCS	MCL
Meadowridge condominiums, Complex 9 (Well Ref. No.38)							
Chloroform	<1.0	ND	ND	ND	ND	70	80
trans-1,2-Dichloroethene	<1.0	ND	ND	ND	ND	100	100
1,1,1-Trichloroethane	trace	ND	ND	ND	ND	200	200
Trichloroethene	trace	ND	ND	ND	ND	3	5

CONSTITUENT	5/11/93**	5/20/96**	6/12/97**	2/10/98**	11/2/99**	5/22/00**	2/14/02***	3/11/08^^	NCS	MCL
604 Green Briar Rd (Well Ref. No.23)										
Chloroform	trace	<1.0	<1.0	ND	trace	trace	ND	ND	70	80
Methyl-t-butyl-ether	ND	ND	ND	ND	ND	trace	ND	ND	20	---
Toluene	ND	ND	ND	ND	trace	ND	ND	ND	600	1000
Ethyl Benzene	ND	ND	ND	ND	trace	ND	ND	ND	600	700
Xylenes	ND	ND	ND	ND	trace	ND	ND	ND	500	10000
1,4-Dichlorobenzene	ND	ND	ND	ND	trace	ND	ND	ND	6	75

CONSTITUENT	5/11/93**	11/2/99**	2/11/02***	3/11/08^^	NCS	MCL
313 Green Briar Rd (Well Ref. No.25)						
Tetrahydrofuran	ND	1.2 J	ND	ND	---	---

CONSTITUENT	8/9/93**	10/20/93**	9/21/94**	NCS	MCL
535 Green Briar Rd (Well Ref. No.33) Connected to public water in 2000.					
1,2-Dichloroethane	<1.0	<1.0	ND	0.4	5
Chloroform	<1.0	ND	<1.0	70	80

NOTE: All Concentrations are in ppb (ug/L)

PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF ANALYSIS

CONSTITUENT	3/93*	4/94**	10/95**	4/96**	10/96**	6/97**	2/98**	2/99**	5/00**	8/01***	2/02***	8/02****	1/03****	7/03****	4/07^^	9/07^^	3/11/08^^	9/9/08^^	3/12/09^^	9/2/09^^	3/18/10^^	NCS	MCL
2347 Hwy 421 S (Well Ref. No. 2) Connected to public water in 20																							
tert-Butylbenzene	1.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	---
Isopropylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	---
Trichloroethene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2(J)	ND	ND	0.2(J)	ND	0.2(J)	ND	3	5
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	ND	0.7	5
1,3,5-Trimethylbenzene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	400	---
1,1-Dichloroethane	ND	trace	<1.0	trace	<1.0	trace	ND	<1.0	0.6	ND	0.7	0.99	0.53	0.77	3.3	3.7	4.5	4.8	4.2	6.4	1.0	6	---
1,1-Dichloroethene	ND	trace	trace	ND	trace	ND	ND	ND	trace	ND	ND	ND	ND	ND	0.3(J)	0.3(J)	0.2(J)	0.3(J)	ND	0.3(J)	ND	7	7
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	trace	ND	ND	ND	ND	ND	0.5	0.2(J)	0.6	0.8	0.1J	0.9	ND	70	70
Dichlorodifluoromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	0.3(J)	0.3(J)	0. 4(J)	0.3(J)	0.3(J)	ND	1000	---
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	0.5(J)	0.5	0.7	0.5(J)	0.9	ND	3000	---
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	ND	ND	0.03	2
Methyl Ethyl Ketone	ND	trace	35.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4000	---
Tetrahydrofuran	ND	ND	42.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---
Benezene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0. 4(J)	ND	1	5
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	ND	ND	1.0	ND	ND	600	1000
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.5(J)	ND	ND	ND	ND	ND	5	5

CONSTITUENT	5/93**	6/23/93**	3/94**	8/94**	12/94**	4/95**	10/95**	5/96**	10/96**	2/98**	8/98**	6/99**	9/00**	5/01**	2/02***	8/02****	1/03****	7/03****	3/04****	9/04****	NCS	MCL
648 Green Briar Rd (Well Ref. No. 24) Declined connection to public water in 2000; unoccuppied in 2005, connected in 2008.																						
Methylene Chloride	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	5
1,1,1-Trichloroethane	<1.0	<1.0	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200	200
Trichloroethene	trace	trace	<1.0	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	5
Tetrachloroethene	ND	trace	<1.0	ND	trace	trace	<1.0	<1.0	trace	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	5
Carbon Tetrachloride	ND	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3	5
1,1-Dichloroethane	ND	ND	<1.0	ND	<1.0	<1.0	trace	<1.0	ND	ND	trace	trace	ND	trace	ND	ND	ND	ND	ND	ND	6	---
Chloroform	ND	ND	trace	ND	ND	trace	trace	ND	ND	ND	trace	ND	ND	ND	37	38	ND	ND	ND	ND	70	80
Bromodichloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.8	8.0	ND	ND	ND	ND	0.6	80
Dibromochloromethane				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.81	1.6	ND	ND	ND	ND	0.4	80
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.05

CONSTITUENT	3/93*	4/94**	12/94**	2/01**	8/01***	2/02***	8/02****	1/03****	7/03****	3/04****	9/04****	3/05^^	10/05^^	4/06^^	9/06^^	4/07^^	9/07^^	3/11/08^^	9/9/08^^	3/12/09^^	9/2/09^^	3/18/10^^	NCS	MCL
2711 Hwy 421 S (Well Ref. No. 15) Declined connection to public water in 2002, connected in 2006.																								
Benzene	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	5
Toluene	ND	6.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	1000
Tetrachloroethene	ND	trace	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1(J)	0.2(J)	02(J)	0.7	5
Ethylbenzene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	600	700
p and m - Xylene	ND	<1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	10,000
Styrene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	70	100
cis-1,2-Dichloroethene	ND	trace	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.3(J)	ND	ND	ND	ND	ND	ND	70	70

	3/93*	2/96**	2/02***	8/02****	1/03****	3/04****	10/05^^	4/06^^	4/07^^	9/07^^	3/08^^	9/08^^	3/09^^	9/09^^	3/09^^	9/09^^	3/10^^	NCS	MCL
2239 Hwy 421 S (Well Ref. No. 1)																			
Total Xylenes	ND	ND	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	500	10000

CONSTITUENT	3/93*	6/93**	3/94**	10/96**	NCS	MCL
513 Green Briar Rd (Well Ref. No. 11) Connected to public water in 2000.						
Dichlorodifluoromethane	2.5	ND	ND	ND	1000	---
Naphthalene	0.7	ND	ND	ND	6	---
Chloromethane	<9	ND	ND	ND	3	---
Methylene Chloride	<0.6	ND	ND	ND	5	5
Chloroform		ND	<1.0	NDT	70	80

NOTE: All Concentrations are in ppb (ug/L)

PRIVATE WELL TESTING - WATAUGA COUNTY, NC
WELLS SHOWING NO DETECTED ORGANIC COMPOUNDS

SAMPLING LOCATION	SAMPLING DATES
Mack Brown rental residence (Well Ref. No.3) **REMOVED**	March 5, 1993*, July 3, 1994** and Feb. 19, 2001
BREMCO residence (36) **REMOVED**	September 21, 1993**
Hollar and Green Produce, 230 Cabbage Rd (Well Ref. No.6)	3/93*,9/98&5/01**, 7/03***,3/05,4/06,4/07,9/07,3/08.9/08,3/09,9/09,3/10^^
497/513 Old Hwy 421 S (Well Ref. No.8)	March 5, 1993*
Martin High Country Rentals #1 (9)	March 5, 1993* connected to public water.
Martin High Country Rentals #2 (10)	March 5, 1993* connected to public water.
190 Green Briar Rd (Well Ref. No.30)	August 3, 1993**
253 Green Briar Rd (Well Ref. No.39)	November 16, 1994** and August 7, 2001***
331 Green Briar Rd (Well Ref. No.19)	March 1993*, Oct. 1999**, Feb. 2002***
378 Green Briar Rd (Well Ref. No.18)	March 1993*, Oct. 1996**, Nov. 1999*, 3/05&3/08^^
425 Green Briar Rd (Well Ref. No.17)	3/1993*, 9/1993**, 7/1994**, 10/1999**, 3/05&3/11/08^^
662 Green Briar Rd (Well Ref. No.27)	June 23, 1993**, March 30, 2005 and March 11, 2008^^
690 Green Briar Rd (Well Ref. No.29)	June 23, 1993**, March 30, 2005 and March 11, 2008^^
699 Green Briar Rd (Well Ref. No.26)	June 23, 1993**
732 Green Briar Rd (Well Ref. No.28)	June 23, 1993**
142 Greenbriar Ln (Well Ref. No.21)	3/18/1993*, 5/22/2000**, 3/30/2005^^, 10/5/2005^^ , and 9/9/08^^
110 Greenbriar Ln (Well Ref. No.22)	March 23, 1993* and October 12, 1999**
330 Wild Rose Ln (Well Ref. No.45)	Oct. 1999**, Aug. 2001***, Feb. 2002***, and March 2005^^
378 Wild Rose Ln (Well Ref. No.46)	Feb. 2001**, Aug. 2001***, Feb. 2002***, and March 2005^^
356 Wild Rose Ln (Well Ref. No.54)	February 14, 2002*** and March 30, 2005^^
171 Chipmunk Tr (Well Ref. No.31)	August 3, 1993**
Animal Control Office, 411 Landfill Rd (Well Ref. No.32)	August 3, 1993**
Brook Hollow Trailer Park (Well Ref. No.37)	October 11, 1993**
860 Green Briar Rd (Well Ref. No.34)	October 20, 1993**
182/216 Cane Rd, Shared well #3 (Well Ref. No.35)	October 20, 1993** and March 11, 2008^^
221/219Cane Rd, Shared well #3 (Well Ref. No.57)	March 11, 2008^^
177 Cane Rd, Shared well #3 (Well Ref. No.56)	March 11, 2008^^
220 Margot Rd (Well Ref. No.55)	March 30, 2005^^
191 Sunny Knoll Ln (Well Ref. No.40)	January 12, 1995**
200 Sunny Knoll Ln (Well Ref. No.61)	March 11, 2008^^
315 Sunny Knoll Ln (Well Ref. No.60)	March 11, 2008^^
233 Chipmunk Tr (Well Ref. No.41)	January 12, 1995**
Meadowridge Condominiums (42)	February 16&17, 1998**
Meadowridge Condominiums (43)	February 16&17, 1998**
Meadowridge Condominiums (44)	August 19, 1998**
214/252 Will Cook Rd (Well Ref. No.47)	May 24, 2001**
5259 Bamboo Rd (Well Ref. No.59)	March 2005^^
5233 Bamboo Rd (Well Ref. No.51)	August 7, 2001***
5229 Bamboo Rd (Well Ref. No.52)	August 7, 2001***
5195 Bamboo Rd (Well Ref. No.48)	August 7, 2001***
5177 Bamboo Rd (Well Ref. No.53)	August 7, 2001***
5147 and 5145 Bamboo Rd (Well Ref. No.50)	August 7, 2001***
5111 Bamboo Rd (Well Ref. No. 49)	August 7, 2001***

TABLE NOTES:

The sampled well reference number as presented on the Vicinity Map (Figure 1) is denoted in parentheses following the sampling locations name.
* Laboratory analysis performed by Central Virginia Laboratories and Consultants (CVLC) utilizing EPA Methods 502.2 (Volatiles) and 525.1 (Semi-Volatiles).
** Laboratory Analysis performed by NCDENR Division of Laboratory Services utilizing EPA Method 502.2 (Volatiles).
*** Laboratory Analysis performed by Severn Trent Services utilizing EPA Method 524.2 (Volatiles).
**** Laboratory Analysis performed by Toxikon utilizing EPA Method 524.2 (Volatiles)
^^ Laboratory Analysis performed by Lancaster Lanoratories utilizing EPA Method 524.2 (Volatiles)
NSC - North Carolina Water Quality Standard (DEHNR-15A NCAC 2L.0202) - as last updated 2/5/2010
MCL - EPA Primary Drinking Water Standard Maximum Contaminant Level
ND denotes no compounds detected for entire analytical scan.
NDT denotes compound detected in trip blank at same concentration as well sample.
NS denotes not sampled on that date.
NA denotes compound not analyzed on that date.
(J) denotes estimated result. # denotes compound co-elutes.
(T) denotes found in Trip Blank. trace = < 0.5 ppb (ug/l)

Note that chloroform was detected in the residential wells 17, 18, 19, 22, 26, 30, 40, 45 and 46.
Chloroform has not been detected in any of the landfill assessment monitoring wells to date, and is likely a transformation product resulting from the chlorination of the well systems.
Martin High Country Rentals (9 and 10) was connected to public water in 2000.

PRIVATE WELL TESTING
WATAUGA COUNTY, NC
RESULTS OF BREMCO WELL ANALYSIS

CONSTITUENT	3/5/93*	4/6/94**	8/2/94**	12/7/94**	4/26/95**	10/24/95**	4/9/96**	10/9/96**	6/4/97**	2/10/98**	8/17/98**	2/18/99**	5/22/00**	NCS	MCL
Blue Ridge Electric Membership Company (BREMCO), 2491 Hwy 421 S (Well Ref. No. 5) Connected to public water in 2003.															
Benzene	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	3.2 (J)	trace	trace	trace	1	5
1.1-Dichloroethane	0.7	<1.0	1.4	1.0	1.2	1.8	1.5	1.5	2.0	3.2 (J)	1.6	1.5	5.0	6	---
1,1,1-Trichlorothane	0.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	trace	trace	trace	trace	200	200
Trichloroethene	0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2 (J)	0.5	trace	0.6	3	5
1,1-Dichloroethene	**ND**	1.0	1.9	<1.0	1.1	1.7	1.0	<1.0	1.7	3.9 (J)	2.6	**ND**	2.7	7	7
cis-1,2-Dichloroethene	**ND**	<1.0	**ND**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.5 (J)	trace	trace	0.5	70	70
Tetrachloroethene	**ND**	<1.0	<1.0	trace	<1.0	<1.0	<1.0	<1.0	<1.0	trace	trace	trace	trace	0.7	5
Cloroform	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	trace	**ND**	70	80
Methylene Chloride	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.8	5	5
Methyl-t-butyl-ether	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	trace	20	---
Tetrahydrofuran	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.5 (J)	**ND**	**ND**	---	---
Chloroethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	3000	---
Dichlorodifluoromethane	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	1000	---

CONSTITUENT	8/7/01***	2/11/02***	8/14/02****	1/22/03****	7/15/03****	3/16/04****	9/29/04****	3/30/05^^	10/5/05^^	4/05/06^^	9/27/06^^	4/3/07^^	9/18/07^^	3/11/08^^	9/9/08^^	3/12/09^^	9/2/09^^	3/18/10^^	NCS	MCL
Blue Ridge Electric Membership Company (BREMCO), 2491 Hwy 421 S (Well Ref. No. 5) Connected to public water in 2003.																				
Benzene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.1	0.6	0.5	0.5	0.6	0.4(J)	0.5(J)	1	5
sec-Butylbenzene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.01(J)	**ND**	0.01(J)	0.2(J)	70	---
1,4-Dichlorobenzene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.3	0.8	1	1.3	1.4	1.6	2.3	6	75
1.1-Dichloroethane	6	6	7.7		8.8	5,7	4.1	**ND**	4.7	0.5	1.6	11	29	38	30	33	36	28	6	---
1,1,1-Trichlorothane	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	200	200
Trichloroethene	0.8	0.6	0.72		0.69	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	1	1	1	1	0.9	1	3	5
1,1-Dichloroethene	2	**ND**	1.6		1.4	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.8	1.8	1.7	1.5	1.5	1.3	1.4	7	7
cis-1,2-Dichloroethene	0.9	1	1.4		1.6	**ND**	**ND**	**ND**	0.7	**ND**	**ND**	1.9	5.3	6	6	6.5	5.5	6.2	70	70
trans-1,2-Dichloroethene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.2(J)	0.2(J)	0.2(J)	0.2(J)	0.2(J)	100	70
Tetrachloroethene	**ND**	**ND**	**ND**	NS	0.53	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.4 (J)	0.5 (J)	0.4 (J)	0.4 (J)	0.4 (J)	0.4 (J)	0.7	5
Cloroform	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	70	80
Methylene Chloride	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.4	1.6	1.7	1.4	1.7	0.8	1.5	5	5
Methyl-t-butyl-ether	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	200	---
Tetrahydrofuran	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	---	---
Chloroethane	0.5	1	1.3		1.3	1.1	0.52	**ND**	1.1	**ND**	**ND**	2.2	8.1	12	11	11	9	11	3000	---
Dichlorodifluoromethane	1	1	1.6		0.94	0.59	0.58	**ND**	**ND**	**ND**	**ND**	0.6	1.2	1.2	1	1	0.9	0.9	1000	---
Chlorobenzene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.1 (J)	0.2 (J)	0.2 (J)	0.2 (J)	0.3 (J)	0.3 (J)	50	100
1,2-Dichloroethane	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.2 (J)	0.2 (J)	**ND**	**ND**	**ND**	0.2 (J)	0.4	---
1,2-Dichloropropane	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.2 (J)	0.3 (J)	0.2 (J)	0.2 (J)	0.2 (J)	0.2 (J)	0.6	5
Toluene	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	1.1	**ND**	**ND**	**ND**	**ND**	**ND**	600	1000
Vinyl Chloride	**ND**	**ND**	**ND**		**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	**ND**	0.4 (J)	0.5	0.5(J)	0.4(J)	0.4(J)	0.5(J)	0.03	2

NOTE: All Concentrations are in ppb (ug/L)

PRIVATE WELL TESTING - WATAUGA COUNTY, NC
RESULTS OF VOLATILE AND SEMIVOLATILE ANALYSIS

CONSTITUENT	MARCH 5, 1993*	MARCH 18, 1993*	MARCH 24, 1993*	JUNE 23, 1993**	JULY 13, 1994**	NCS	MCL
Carroll residence, 491 Green Briar Rd (Well Ref. No. 12) WELL ABANDONED IN 1995							
Benzene	2.1	1.7		1.9		1	5
Chloroethane	173.4	74.5		**ND**		3000	---
Chloromethane	**ND**	14.8		**ND**		3	---
Dichlorodifluoromethane	30.6	**ND**		**ND**		1000	---
1,1-Dichloroethane	20.9	17.4		**ND**		6	---
1,1-Dichloroethene	4.1	1.5		**ND**		7	7
cis-1,2-Dichloroethene#	1.2	0.9		<1.0		70	70
2,2-Dichloropropane#	1.2	0.9		**ND**		---	---
4-Isopropyltoluene	**ND**	0.2	NS	**ND**	NS	---	---
Isopropylbenzene	0.6	**ND**		**ND**		70	---
Methylene Chloride	**ND**	43.0 (T)		138.2		5	5
Styrene	2.8	0.5		**ND**		70	100
Tert-Butyl Methyl Ether	**ND**	**ND**		2.4		20	---
Tetrachloroethene	5.4	4.7		4.2		0.7	5
Toluene	**ND**	0.6 (T)		**ND**		600	1000
1,1,1-Trichloroethane	19.7	15.7		29.4		200	200
Trichloroethene	7	5.5		7.0		3	5
Trichlorofluoromethane	37.1	20.2		**ND**		2000	---
Vinyl Chloride	1.7 (T)	**ND**		**ND**		0.03	2
p and m-Xylene	**ND**	**ND**		<1.0		500	10,000
o-Xylene	**ND**	3.4		2.9		500	10,000
Nissan-Mazda Dealership, 2464 Hwy 421 S (Well Ref. No. 4) WELL ABANDONED IN 1995							
Carbon Tetrachloride	0.2		**ND**		**ND**	0.3	5
Chloroethane	19.1		**ND**		**ND**	3000	---
Dichlorodifluoromethane	8.2		8.7		**ND**	1000	---
1,1-Dichloroethane	98.5		63.1		104.3	6	---
1,2-Dichloroethane	**ND**		0.5		**ND**	0.4	---
1,1-Dichloroethene	5.4		3.7		4.7	7	7
cis-1,2-Dichloroethene#	22.2		13.0		23.7	70	70
1,2-Dichloropropane	0.5		0.3		**ND**	0.6	5
2,2-Dichloropropane#	22.2	NS	13.0	NS	**ND**	---	---
Tetrachloroethene	21.8		28.1		30.9	0.7	5
Toluene	**ND**		0.8(T)		**ND**	600	1000
1,1,1-Trichloroethane	14.7		19.3		22.9	200	200
Trichloroethene	11.2		9.1		12.6	3	5
Trichlorofluoromethane	0.4		**ND**		**ND**	2000	---
o-Xylene	0.4		0.5(T)		**ND**	500	10,000

NOTE: All Concentrations are in ppb (ug/L).

Table 2A. Assessment Target Parameter Analytical Results - September 2010

Watauga County Landfill, Facility ID 95-02

Core Groundwater Monitoring Wells

Well ID	MW-1		MW-2		MW-3		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		NC2L	MCL
Parameter	**Results** (µg/L)																						(µg/L)	(µg/L)
Benzene	0.5	U	0.5	U	0.5	U	0.5	U	2.8		0.5	U	0.5	U	0.2	J	0.5	u	0.5	U	0.5	U	1	5
Chlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	0.4	J	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	50	100
1,4-Dichlorobenzene	0.5	U	0.5	U	0.5	U	0.5	U	1.6		0.5	U	0.5	U	1.4		0.5	U	0.5	U	0.5	U	6	100
Chloroethane	0.5	U	0.5	U	5.1		2.2		4.2		0.5	U	2.1	J	7	J	0.5	U	0.5	U	0.5	U	3000	-
Dichlorodifluoromethane	0.5	U	0.5	U	0.5	U	0.5	U	0.6		0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	1000	-
1,1-Dichloroethane	0.5	U	48		10		0.7		10		8.9		11		17		0.1	J	1.0		1.4		6	-
1,1-Dichloroethene	0.5	U	70		0.5	U	0.5	U	0.5	U	12		0.08	J	0.2	J	0.5	U	0.5	U	0.5	U	7	7
1,2-Dichloroethane	0.5	U	0.5	U	0.2	J	0.5	U	0.5	U	0.5	U	0.12	J	0.3	J	0.5	U	0.5	U	0.5	U	0.4	-
1,2-Dichloropropane	0.5	U	0.5	U	0.4	J	0.5	U	0.2	J	0.5	U	0.41	J	0.6	J	0.5	U	0.5	U	0.5	U	0.6	5
cis-1,2-Dichloroethene	0.5	U	0.2	J	25		0.5		6.9		0.5	U	19		35		0.5	U	0.2	J	0.17	J	70	70
trans-1,2-Dichloroethene	0.5	U	0.5	U	0.4	J	0.5	U	0.3	J	0.5	U	0.24	J	0.5	J	0.5	U	0.5	U	0.5	U	100	100
Methylene Chloride	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	5	5
Tetrachloroethene	0.5	U	3.3		0.5	U	0.5	U	0.8	J	2.1		0.39	J	0.8	J	0.5	U	0.8		0.84		0.7	5
Trichloroethene	0.5	U	0.4		2.8		0.5	U	1.1		0.5	U	2.1		3.6		0.5	U	0.4	J	0.5	U	3	5
1,1,1-Trichloroethane	0.5	U	330		0.5	U	0.1	J	0.5	U	58		0.5	U	0.5	U	0.35	J	0.5	U	0.5	U	200	200
Vinyl Chloride	0.5	U	0.4	J	0.5	U	0.5	U	2.0	J	0.5	U	0.37	J	1.3	J	0.5	U	0.5	U	0.5	U	0.03	2

Notes:
NC2L Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)
MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)
U Denotes not detected (the associated numerical value is the laboratory Limit of Quantitation).
J Denotes an estimated value.
- Denotes Not Established.
Organic parameters were analyzed in accordance with USEPA SW-846 Method 8260B (25 ml purge).

P:\06\500\06520\06520-39\Reports\2010 tables\September 2010 Tables\[XLS - 10 1222 - Target Parameters - Organic - TABLE2A - KMW.xls]Core Wells

Table 2B. Suface Water Monitoring - September 2010

Watauga County Landfill, Facility ID 95-02

Sample ID	S-1		S-2		S-3		S-4		S-5		S-6		WQS	MCL
Parameter	Results (µg/L)												(µg/L)	(µg/L)
Benzene	5	U	5	U	5	U	5	U	5	U	5	U	51	5
Chlorobenzene	5	U	5.0	U	5	U	5	U	5	U	5	U	140*	100
1,4-Dichlorobenzene	5	U	2.5	J	5	U	5	U	5	U	5	U	190	100
Chloroethane	5	U	25		5	U	2.4	J	5	U	5	U	550	-
Dichlorodifluoromethane	5	U	5	U	5	U	5	U	3.3	J	5	U	77000	-
1,1-Dichloroethane	0.59	J	2.5	J	5	U	3.9	J	5	U	5	U	170000	-
1,1-Dichloroethene	5	U	5	U	5	U	10	U	5	U	5	U	7100	7
1,2-Dichloroethane	5	U	5	U	5	U	5	U	5	U	5	U	37	-
1,2-Dichloropropane	5	U	5	U	5	U	5	U	5	U	5	U	15	5
cis-1,2-Dichloroethene	5	U	1	J	5	U	8.3		5	U	5	U	4900	70
trans-1,2-Dichloroethene	5	U	5	U	5	U	5	U	5	U	5	U	10000	100
Methylene Chloride	5	U	5	U	5	U	5	U	5	U	5	U	590	5
Tetrachloroethene	5	U	5	U	5	U	5	U	5	U	5	U	3.3	5
Trichloroethene	5	U	5	U	5	U	5	U	5	U	5	U	30	5
1,1,1-Trichloroethane	5	U	5	U	5	U	5	U	0.9	J	5	U	2500*	200
Vinyl Chloride	5	U	5	U	5	U	5	U	5	U	5	U	2.4	2

Notes:

WQS Denotes North Carolina 15A NCAC 2B Surface Water Quality Standard (Human Health) or National Criteria per EPA, current 2/5/2010
* freshwater aquatic life standard (no human health standard available).

MCL Denotes EPA Maximum Contaminant Level for drinking water.

U Denotes not detected (the associated numerical value is the Contract Required Quantitation Limit).

J Denotes an estimated value.

\- Denotes Not Established.

Organic parameters were analyzed in accordance with EPA CLP Statement of Work SOMO1.2.

P:\06\500\06520\06520-39\Reports\2010 tables\September 2010 Tables\[XLS - 10 1222 - Surface Water Results - Oraganic - TABLE2B - KMW.xls]Surface Water

Table 3. Detected Non-Target Organic Parameters - September 2010
Watauga County Landfill, Facility ID 95-02

Sample ID	**MW-19**	
Parameter	**Results** (µg/L)	
Chloroform	0.20	J
Carbon Disulfide	0.03	J

Notes:

J Denotes an estimated value.

U Denotes not detected (the associated numerical value is the laboratory Limit of Quantitation).

Organic parameters were analyzed in accordance with EPA SW-846 Method 8260(25 ml purge).

Table 4. Summary of Private Well Sampling Results - September 2010
Watauga County Landfill, Facility ID No. 95-02

Analyte	Result (µg/l)	QL/CRQL (µg/l)	MCL(µg/l)	NC 2L(µg/l)
Well Reference No. 2 - Residential 2347 Hwy. 421 S. (Bolick Rental)				
Benzene	0.1 J	0.5	5	1
Chloroethane	1	0.5	n/a	3,000
1,4-Dichlorobenzene	0.1 J	0.5	n/a	6
Dichlorodifluoromethane	0.5	0.5	n/a	1,000
1,1-Dichloroethane	7.1	0.5	n/a	6
1,1-Dichloroethene	0.3 J	0.5	7	7
cis-1,2-Dichloroethene	1	0.5	70	70
Tetrachloroethene	0.1 J	0.5	5	0.7
Trichloroethene	0.2 J	0.5	5	3
Well Reference No. 5 (BREMCO) - Commercial 2491 Hwy 421 S.				
Benzene	0.5	0.5	5	1
sec-Butylbenzene	0.1 J	0.5	n/a	70
Chlorobenzene	0.3 J	0.5	100	50
Chloroethane	11	0.5	n/a	3,000
1,4-Dichlorobenzene	1.9	0.5	n/a	6
Dichlorodifluoromethane	1.1	0.5	n/a	1,000
1,1-Dichloroethane	30	5*	n/a	6
1,2-Dichloroethane	0.2 J	0.5	5	0.4
1,1-Dichloroethene	1.3	0.5	7	7
cis-1,2-Dichloroethene	6.1	0.5	70	70
trans-1,2-Dichloroethene	0.2 J	0.5	100	100
1,2-Dichloropropane	0.2 J	0.5	5	0.6
Methylene Chloride	1.3	0.5	5	5
Tetrachloroethene	0.3 J	0.5	5	0.7
Trichloroethene	0.9	0.5	5	3
Vinyl Chloride	0.4 J	0.5	2	0.3
Well Reference No. 15 - Residential 2711 Hwy. 421 S. (Greer Residence)				
cis-1,2-Dichloroethene	0.2 J	0.5	70	70
Tetrachloroethene	0.3 J	0.5	5	0.7
Well Reference No. 16 - Residential 2737 Hwy 421 S. (Williamson Residence)				
cis-1,2-Dichloroethene	0.4 J	0.5	70	70
Tetrachloroethene	0.2 J	0.5	5	0.7

Definitions:

QL - Laboratory quantitation limit.

CRQL - Laboratory contract required quantitation limit.

J - Analyte is estimated; analyte detected between the laboratory detection limit and QL/CRQL.

Notes:

1. All samples were analyzed by EPA Method 524.2 at Lancaster Laboratories of Lancaster, PA.
2. Lancaster Laboratories NC Certification Number 42705.
3. Target analytes not listed above were not detected at or above the laboratory detection limit; see laboratory analytical data package for full analyte reporting list.
4. For method reference CLP SOW - use CRQL.

* Sample dillution - 10X.

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																										
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Organics																												
Benzene	6/20/94	10	U	120	U	10	U	9	J	0.42	J	0.72	J	0.4	J	5.3	U	5.3	U	5.3	U	5.3	U	5.3	U			CLP/8021
	9/27/94	10	U	9	J	2	J	12	J	3	J	5	J	4	J	10	U	10	U	10	U	10	U	2	J			CLP
MCL= 5 ug/l	2/06/95	10	U	150	U	2	J	12	J	3.6		5	J	2	J	50	U	10	U	10	U	1	U	10	U			CLP
NCS = 1 ug/l	4/11/95	10	U	200	U	1	J	10	J	3	J	6	J	3	J	71	U	10	U	10	U	10	U	10	U			CLP
	7/10/95	2	U	2	U	2.3		14		2.2		6.2		4		2	U	2	U	2	U	10	U	2	U			8021
	7/10/95	5	U	5	U	2.6	J	13		2.7	J	5.5		3.8	J	5	U	5	U	5	U	-		5	U			8260
	4/10/96	1	J	91	U	2	J	11	J	5	J	5		4	J	23	U	10	U	1	J	10	U	10	U			CLP
	4/8/97	1	U	100	U	2		-		4.8		2.3		3.9		100	U	1	U	1.4		1	U	1				8021
	1/15/98	10	U	20	U	3	J	-		2	J	2	J	3	J	14	U	10	U	2	J	10	U	2	J			CLP
	6/23/98	-		25	UJ	1	J	-		-		3	J	3	J	-		-		2	J	-		2	J			CLP
	1/12/99	1	U	1	U	3.6		-		2.4		2		3.2		1	U	1	U	2.5		1	U	1.4				8021B
	7/12/99	-		10	U	2	J	-		-		1	J	2	J	-		-		10	U	-		2	J			CLP
	2/1/00	1	U	1	U	2.5		-		2.3		1.6		3.2		1	U	1.4		2.2		1	U	2.4				8021B
	8/8/00	-		10	U	4	J	-		-		2	J	4	J	-		-		2	J	-		1	J			CLP
	2/12-14/01	1	U	1	U	3.9		-		2.3		1.3		4.3		1	U	1.8		2.8		1	U	5				8021B
	8/7-8/01	-		10	U	1	J	-		-		1	J	2	J	-		-		2	J	-		4	J			CLP
	2/11-14/02	0.5	U	0.5	U	3	U	-		1		0.5	U	2		0.5	U	1		2		0.5	U	3		0.5	U	8260B
	8/12-14/02	0.5	U	10	U	3	J	-		1	U	10	U	10	U	1	U	0.5	U	10	U	0.5	U	2	J	0.5	U	CLP/8260B
	1/21-22/03	-		10	U	0.8	J	-		-		-		3	J	-		-		2	J	-		3	J			CLP
	7/14-15/03	1	U	17	U	4	U	-		-		1	U	1	U	4.2	U	1	UJ	1	U	1	UJ	1	U	1	J	8260B
	3/16-17/04	-		10	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	9/29-30/04	0.5	U	0.5	U	0.46	J	-		-		0.5	U	3.8	J	0.84	U	0.33	J	0.68		0.5	U	0.22	J			8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		25	U	0.62		-		-		0.5	U	4.1		0.5	U	0.29	J	0.61		0.5	U	0.5	U	0.5	U	8260B
	4/4-5/06	-		10	U	10	U	-		-		10	U	3	J	-		-		10	U	-		10	U	-		CLP
	9/27-28/06	0.50	U	0.50	U	2.5	U	-		-		0.50	U	1.6		0.50	U	0.27	J	0.36	J	0.50	U	0.50	U	0.50	U	8260B
	4/2-3/07	-		13	U	10	U	-		-		0.50	U	2.8		-		-		2,5	U	-		0.50	U	-		8260B
	9/18-19/07	0.50	U	0.50	U	0.34	J	-		-		0.50	U	3.1		0.50	U	0.31	J	0.38	J	0.50	U	0.50	U	0.50	U	8260B
	3/11/08	-		10	UJ	0.50	UJ	-		-		0.50	UJ	2.5	J	-		-		0.50	UJ	-		0.50	UJ	-		8260B
	9/8-9/08	0.50	U	8.3	U	0.50	U	-		-		0.50	U	3.1		0.50	U	0.29	J	0.36	J	0.50	U	0.50	U	0.50	U	8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	2.9		-		-		0.4	J	-		0.50	U	-		8260B
	9/1-2/09	0.50	U	0.50	U	0.50	U	-		-		0.50	U	3.1		0.50	U	.18	J	0.26	J	0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-		0.50	U	0.50	U	-		-		0.50	U	3		-	-	-		0.23	J	-		0.50	U	-		8260B
	9/13-14/10	0.50	U	0.50	U	0.50	U	-		-		0.50	U	2.8		0.50	U	0.50	U	0.16	J	0.50	U	0.50	U	0.50	U	8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Chloroethane	6/20/94	10	U	120	U	6	J	8	J	7.33	J	9.44		56.78	J	9.29	U	1.16	J	20.23		9.29	U	28.21				CLP/8021
	9/27/94	10	U	170	U	8	J	10	J	16		7	J	18		10	U	10	U	5	J	10	U	7	J			CLP
no MCL established	2/06/95	10	U	150	U	7	J	11	J	28		7	J	17		50	U	10	U	4	J	1	U	5	J			CLP
NCS = 3000 ug/l	4/11/95	10	U	200	U	6	J	8	J	16		7	J	15		71	U	10	U	2	J	10	U	4	J			CLP
	7/10/95	2	U	2	U	10	U	15	U	9.2		10	U	20	U	2	U	2	U	5	U	10	U	5	U			8021
	7/10/95	5	U	5	U	8.7		16		22		9.3		21		5	U	5	U	6.4		-		4.9	J			8260
	4/10/96	10	U	91	U	8	J	14	J	41		10	J	16		23	U	10	U	5	J	10	U	5	J			CLP
	4/8/97	1	U	1	U	46		-		58		38		110		1	U	12		40		1	U	30				8021
	1/15/98	10	U	20	U	10		-		19		12		12		20		10	U	5	J	10	U	9	J			CLP
	6/23/98	-		25	UJ	5	J	-		-		11	J	8	J	-		-		5	J	-		6	J			CLP
	1/12/99	2	U	2	U	100	U	-		43		40	U	60	U	2	U	25		50	U	2	U	40	U			8021B
	7/12/99	-		10	U	8	J	-		-		10	U	10	U	-		-		10	U	-		7	J			CLP
	2/1/00	2	U	2	U	40	U	-		34	J	40	U	40	U	2	U	28	J	50	U	2	U	40	U			8021B
	8/8/00	-		10	U	13		-		-		16		8	J	-		-		7	J	-		7	J			CLP
	2/12-14/01	2	U	2	U	60	U	-		44	J	40	U	40	U	2	U	34	J	40	U	2	U	60	U			8021B
	8/7-8/01	-		10	UJ	6	J	-		-		28	J	5	J	-		-		8	J	-		14	J			CLP
	2/11-14/02	0.5	U	0.5	U	8		-		23		4		3		0.5	U	7		8		0.5	U	10		0.5	U	8260B
	8/12-14/02	0.5	U	10	U	21		-		18		38		10	U	1	U	0.5	U	17		0.5	U	17		0.5	U	CLP/8260B
	1/21-22/03	-		10	U	4	J	-		-		-		4	J	-		-		4	J	-		7	J			CLP
	7/14-15/03	1	U	17	U	4		-		-		1	U	1	U	4.2	U	5.6	J	1	U	1	UJ	2.9	J	1	J	8260B
	3/16-17/04	-		10	U	20		-		-		17		9	J	-		-		10	U	-		10	U			CLP
	9/29-30/04	0.5	U	0.44	J	7.8	J	-		-		0.5	U	6.3	J	0.84	U	6.6	J	6.2		0.5	U	5.3	J			8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	3	J	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		25	U	10		-		-		0.5	U	6.6		0.5	U	7		9.7		0.5	U	0.89	J	0.5	U	8260B
	4/4-5/06	-		10	U	11		-		-		11		7	J	-		-		12		-		10	U	-		CLP
	9/27-28/06	0.50	U	0.39	J	8.7		-		-		0.50	U	2.9		0.50	U	7.5	J	4.9		0.50	U	0.71		0.50	U	8260B
	4/2-3/07	-		13	U	11		-		-		1.5		6.5		-		-		12		-		0.50	U	-		8260B
	9/18-19/07	0.50	U	0.39	J	7.8		-		-		1.2		5.8		0.50	U	8.7		9.4		0.50	U	0.7		0.50	U	8260B
	3/11/08	-		10	U	1.5		-		-		0.50	U	5.1		-		-		11		-		0.9		-		8260B
	9/8-9/08	0.50	U	8.3	U	1.2	J	-		-		0.50	U	4.9		0.50	U	7.3		9.4		0.50	U	0.9		0.50	J	8260B
	3/11-12/09	-		0.5	U	2.4		-		-		0.50	U	5.8		-		-		9.9		-		0.50	U	-		8260B
	9/1-2/09	0.50	U	0.5	U	2.3		-		-		0.50	U	4.7		0.50	U	5.5		7		0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-	-	0.5	U	2.6		-		-		0.50	U	3.8		-	-	-		6.5		-		0.50	U	-		
	9/13-14/10	0.50	U	0.50	U	5.1	J	-		-		2.2	J	4.2	J	0.50	U	2.1	J	7	J	0.50	U	0.50	U	0.50	U	8260B

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Dichlorodifluoromethane	6/20/94	10	U	120	U	7	J	25	U	46.64	U	2.26	J	13.92	J	46.64	U	1.88	J	9.83	J	46.64	U	1.44	J			CLP/8021
	9/27/94	10	U	10	J	4	J	25	U	10	U	2	J	9	J	10	U	10	U	4	J	10	U	4	J			CLP
no MCL established	2/06/95	10	U	150	U	10	U	25	U	1	U	14		27		50	U	2	J	10	U	1	U	12				CLP
NCS = 1000 ug/l	4/11/95	10	U	200	U	10	U	25	U	10	U	7	J	9	J	71	U	10	U	4	J	10	UJ	3	J			CLP
	7/10/95	2	UJ	2	UJ	6.9	J	2	UJ	2	UJ	16	J	2	UJ	2	UJ	2	UJ	5.7	J	10	U	5.3	J			8021
	7/10/95	5	U	5	U	7.2		2.2	J	5	U	6.7		2.8	J	5	U	1.7	J	4	J	-		4.2	J			8260
	4/10/96	10	U	91	U	10	U	25	U	10	U	10	U	10	U	23	U	10	U	10	U	10	U	10	U			CLP
	4/8/97	1	U	1	U	6.4		-		1	U	17		11		1	U	3		10		1	U	1	U			8021
	1/15/98	10	U	20	U	11		-		10	U	12		10	U	14	U	10	U	10	U	10	U	10	U			CLP
	6/23/98	-		25	UJ	3	J	-		-		10	UJ	10	UJ	-		-		3	J	-		10	UJ			CLP
	1/12/99	1	U	1	U	1	U	-		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U			8021B
	7/12/99	-		10	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	2/1/00	1	U	1	U	3		-		1.3		8.1		3.7		1	U	3		4.8		1	U	3.9				8021B
	8/8/00	-		10	U	3	J	-		-		2	J	1	J	-		-		3	J	-		1	J			CLP
	2/12-14/01	1	U	1	U	3.9		-		1	U	1	U	6.6		1	U	3		2.8		1	U	2.5				8021B
	8/7-8/01	-		10	UJ	3	J	-		-		8	J	4	J	-		-		7	J	-		9	J			CLP
	2/11-14/02	0.5	U	0.5	U	4		-		2		0.5	U	1		0.5	U	3		4		0.5	U	6		0.5	U	8260B
	8/12-14/02	0.5	UJ	10	U	10	U	-		1	U	10	U	10	U	1	U	0.5	UJ	10	U	0.5	UJ	10	U	0.50	J	CLP/8260B
	1/21-22/03	-		10	U	10	U	-		-		-		0.5	J	-		-		0.9	J	-		0.9	J			CLP
	7/14-15/03	1	U	17	U	4	U	-		-		1	U	1	U	4.2	U	1	UJ	1	U	1	UJ	1	U	1	J	8260B
	3/16-17/04	-		10	U	10	U	-		-		10	U	3	J	-		-		10	U	-		3	J			CLP
	9/29-30/04	0.5	U	0.15	J	0.5	U	-		-		0.5	U	3.3	J	0.84	U	0.76	J	1.1		0.5	U	0.6	J			8260B
	3/30-31/05	-		67	UJ	10	UJ	-		-		10	UJ	0.8	J	-		-		10	UJ	-		10	U			CLP
	10/3-4/05	-		25	U	3.2		-		-		0.5	UJ	1.2	J	0.5	UJ	1	UJ	0.31	J	0.5	UJ	0.18	J	0.50	J	8260B
	4/4-5/06	-		10	U	10	U	-		-		10	U	2	J	-		-		10	U	-		10	U	-		CLP
	9/27-28/06	0.50	U	0.50	U	2.5	U	-		-		0.50	U	0.44	J	0.50	U	0.50	U	1.6	U	0.50	U	0.50	U	0.50	U	8260B
	4/2-3/07	-		13	U	10	U	-		-		0.50	U	0.7	J	-		-		2,5	U	-		0.50	U	-		8260B
	9/18-19/07	0.50	U	0.50	U	2.5	U	-		-		0.50	U	0.73		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B
	3/11/08	-		10	U	0.50	U	-		-		0.50	U	0.5	J	-		-		2.5	U	-		0.50	U	-		8260B
	9/8-9/08	0.50	U	8.3	U	0.50	U	-		-		0.50	U	0.58		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	0.4	J	-		-		0.50	U	-		0.50	U	-		8260B
	9/1-2/09	0.50	U	8.3	U	0.50	U	-		-		0.50	U	0.66		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-		0.5	UJ	0.50	UJ	-		-		0.50	UJ	0.43	J	-	-	-		0.14	J	-		0.038	J	-		
	9/13-14/10	0.50	U	0.50	U	0.50	U	-		-		0.50	U	0.55		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
1,1-Dichloroethane	6/20/94	10	U	75	J	160		97		10.42	J	35.33	J	13.63	J	28.62	J	25.23	J	82.77	J	0.26	J	105.03	J			CLP/8021
	9/27/94	10	U	110	J	200		110		1	J	70		23		84		27		130		10	U	230				CLP
no MCL established	2/06/95	10	U	160		180		140		2.9		74		30		37	J	28		120		1	U	170				CLP
NCS = 6 ug/l	4/11/95	10	U	98	J	130		94		4	J	58		35		67	J	18		77		10	U	130				CLP
	7/10/95	2	U	81		130		100	J	4.8		60	J	36		58	J	22		100		10	U	102	J			8021
	7/10/95	5	U	94		160		130		6.8		71		40		55		26		120		-		130				8260
	4/10/96	10	U	130		150		120		5	J	80		36		22	J	26		120		10	U	130				CLP
	4/8/97	1	U	84		90		-		9.4		52		28		27		26		82		1	U	76				8021
	1/15/98	10	U	29		97		-		13		55		27		11	J	30		82		10	U	88				CLP
	6/23/98	-		100	J	67	J	-		-		48	J	24	J	-		-		66	J	-		10	UJ			CLP
	1/12/99	1	U	36		92		-		13		35		22		16		27		70		1	U	65				8021B
	7/12/99	-		24		72		-		-		47		20		-		-		10	U	-		71				CLP
	2/1/00	1	U	12		78		-		14		37		19		15		37		74		0.86	J	90				8021B
	8/8/00	-		28		73		-		-		33		19		-		-		58		-		59				CLP
	2/12-14/01	1	U	11		100		-		12		1	U	23		27		34		70		0.56	J	95				8021B
	8/7-8/01	-		8	J	32		-		-		46		15		-		-		47		-		81				CLP
	2/11-14/02	0.5	U	5		51		-		12		16		0.5	U	10		38		61		0.5	U	85		0.5	U	8260B
	8/12-14/02	0.5	U	14		58		-		16		42		13		7		0.5	U	47		0.5	U	53		0.5	U	CLP/8260B
	1/21-22/03	-		18		29		-		-		-		13		-		-		42		-		59				CLP
	7/14-15/03	1	U	53		28		-		-		1	U	1	U	8.2		30	J	1	U	1	UJ	11		1	J	8260B
	3/16-17/04	-		100		33		-		-		36		45		-		-		18		-		21				CLP
	9/29-30/04	0.5	U	92	J	29	J	-		-		0.17	J	25	J	7.4	J	24	J	34	J	0.32	J	15	J			8260B
	3/30-31/05	-		110		28		-		-		10	U	19		-		-		32		-		7	J			CLP
	10/3-4/05	-		110		30		-		-		0.21	J	25		21		21		33		0.19	J	6.4	J	0.5	U	8260B
	4/4-5/06	-		85		38		-		-		11		20		-		-		34		-		5	J	-		CLP
	9/27-28/06	0.50	U	46		17		-		-		0.50	U	6.3		3.3		21		20		0.50	U	3.2		0.50	U	8260B
	4/2-3/07	-		67	J	38		-		-		1.1	J	16	J	-		-		33	J	-		5	J	-		8260B
	9/18-19/07	0.50	U	74		24		-		-		0.76		16		4.5		28		32		0.11	J	3.8		0.12	J	8260B
	3/11/08	-		56		8.5		-		-		0.50	U	15		-		-		30		-		3.7		-		8260B
	9/8-9/08	0.50	U	42		12		-		-		0.39	J	15		13		21		24		0.26	J	2.9		0.50	U	8260B
	3/11-12/09	-		25		8.1		-		-		0.20	J	15		-		-		25		-		3.7		-		8260B
	9/1-2/09	0.50	U	42		7.9		-		-		0.50	U	13		9.5		18		20		0.10	J	1.5		0.15	J	8260B
	3/17-18/10	-		56		7.8		-		-		0.057	J	13		-		-		19		-		1		-		
	9/13-14/10	0.50	U	48		10		-		-		0.71		10		8.9		11		17		0.1	J	2.2		1.4		8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																										
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
1,1-Dichloroethene	6/20/94	10	U	160		5	J	25	U	9.75	U	0.3	J	9.75	U	32.29		9.75	U	1.15	J	9.75	U	1.09	J			CLP/8021
	9/27/94	10	U	210		6	J	25	U	10	U	4	J	10	U	160		10	U	5	J	10	U	3	J			CLP
MCL= 7 ug/l	2/06/95	10	U	360		6	J	25	U	1	U	6	J	10	U	100		10	U	4	J	1	U	3	J			CLP
NCS = 7 ug/l	4/11/95	10	U	150	J	3	J	25	U	10	U	3	J	10	U	120		10	U	2	J	10	U	1	J			CLP
	7/10/95	2	U	170		4		2	U	2	U	5.7		2	U	160	J	0.86	J	3.9		10	U	1.8	J			8021
	7/10/95	5	U	170	J	3.7	J	1.3	J	5	U	4.1	J	5	U	88		5	U	3.6	J	-		1.6	J			8260
	4/10/96	10	U	210		3	J	25	U	10	U	6	J	10	U	51		10	U	3	J	10	U	2	J			CLP
	4/8/97	1	U	180		1.9		-		1	U	4.9		0.54	J	84		1.1		2.7		0.77	J	1.2				8021
	1/15/98	10	U	50		2	J	-		10	U	3	J	10	U	20		10	U	2	J	10	U	1	J			CLP
	6/23/98	-		160	J	10	UJ	-		-		2	J	10	UJ	-		-		2	J	-		1	J			CLP
	1/12/99	1	U	77		1.9		-		1	U	3.2		1	U	26		1.2		1.9		1	U	1	U			8021B
	7/12/99	-		47		1	J	-		-		2	J	10	U	-		-		10	U	-		10	U			CLP
	2/1/00	1	U	26		1.2		-		1	U	2.4		1	U	31		1.4		1.6		0.96	J	1.2				8021B
	8/8/00	-		56		1	J	-		-		2	J	10	U	-		-		1	J	-		10	U			CLP
	2/12-14/01	1	U	19		1.3		-		1	U	1	U	1	U	63		1.2		1.3		0.61	J	1.4				8021B
	8/7-8/01	-		14		10	U	-		-		2	J	10	U	-		-		10	U	-		0.8	J			CLP
	2/11-14/02	0.5	U	9		3	U	-		0.8		0.8		12		16		0.8		0.9		0.5	U	0.8		0.5	U	8260B
	8/12-14/02	0.5	U	22		10	U	-		1	U	10	U	10	U	7		0.5	U	10	U	0.5	U	10	U	0.5	U	CLP/8260B
	1/21-22/03	-		32		0.3	J	-		-		-		10	U	-		-		0.8	J	-		0.8	J			CLP
	7/14-15/03	1	U	79		4	U	-		-		1	U	1	U	15		1	UJ	1	U	1	UJ	1	UJ	1	U	8260B
	3/16-17/04	-		150		10	U	-		-		1	J	10	U	-		-		10	U	-		10	U			CLP
	9/29-30/04	0.5	U	180	J	0.5	U	-		-		0.48	J	0.28	J	11		0.86	J	1.4		0.43	J	0.32	J			8260B
	3/30-31/05	-		150		10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		160		0.52		-		-		0.5	U	0.5	U	26		0.6	J	0.7		0.2	J	0.5	U	0.5	U	8260B
	4/4-5/06	-		110		10	U	-		-		10	U	10	U	-		-		10	U	-		10	U	-		CLP
	9/27-28/06	0.50	U	75		2.5	U	-		-		0.50	U	0.50	U	5.9		0.45	J	0.36	J	0.27	J	0.50	U	0.50	U	8260B
	4/2-3/07	-		75		10	U	-		-		0.50	U	0.50	U	-		-		2,5	U	-		0.50	U	-		8260B
	9/18-19/07	0.50	U	130		0.26	J	-		-		0.50	U	0.50	U	4.2		0.46	J	0.52		0.50	U	0.50	U	0.50	U	8260B
	3/11/08	-		83		0.50	U	-		-		0.50	U	0.50	U	-		-		J	J	-		0.50	U	-		8260B
	9/8-9/08	0.50	U	61		0.50	U	-		-		0.50	U	0.50	U	20		0.30	J	0.35	J	0.50	U	0.50	U	0.50	U	8260B
	3/11-12/09	-		46		0.50	U	-		-		0.50	U	0.50	U	-		-		0.30	J	-		0.50	U	-		8260B
	9/1-2/09	0.50	U	80		0.10	J	-		-		0.50	U	0.50	U	15		0.19	J	0.26	J	0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-		89		0.072	J	-		-		0.50	U	0.50	U	-		-		0.27	J	-		0.50	U	-		
	9/13-14/10	0.50	U	70		0.50	U	-		-		0.50	U	0.50	U	12		0.83	J	0.23	J	0.50	U	0.50	U	0.50	U	8260B

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
cis 1,2-Dichloroethene(2)	6/20/94	10	U	120	U	37		330		0.97	J	28.9		0.95	J	9.49	U	5.05	J	28.13		9.49	U	60.79	J			CLP/8021
	9/27/94	10	U	170	U	61		380		3	J	93		2	J	10	U	8	J	47		10	U	120				CLP
MCL= 70 ug/l	2/06/95	10	U	150	U	54		370		7.2		91		2	J	50	U	8	J	37		1	U	80				CLP
NCS = 70 ug/l	4/11/95	10	U	200	U	44		330		9	J	100		4	J	71	U	6	J	30		10	U	70				CLP
	7/10/95	2	U	2	U	65		440	J	4.4		110	J	7.4		2	U	11		37		10	U	72	J			8021
	7/10/95	5	U	5	U	50		430		7.9		89		6.2		5	U	7.6		42		-		63				8260
	4/10/96	10	U	91	U	64		420		6	J	78		11		23	U	11		54		10	U	87				CLP
	4/8/97	1	U	1	U	58		-		4.4		34		13		1	U	17		60		1	U	100				8021
	1/15/98	10	U	20	U	62		-		11		29		14		14	U	18		56		10	U	87				CLP
	6/23/98	-		25	UJ	50	J	-		-		43	J	12	J	-		-		52	J	-		79	J			CLP
	1/12/99	1	U	1	U	90		-		7.1		20		14		1	U	19		63		1	U	89				8021B
	7/12/99	-		10	U	69		-		-		21		12		-		-		10	U	-		88				CLP
	2/1/00	1	U	1	U	97		-		5.6		13		15		1	U	39		77		1	U	120				8021B
	8/8/00	-		10	U	120		-		-		13		16		-		-		69		-		90				CLP
	2/12-14/01	1	U	1	U	170		-		3.8		1	U	22		1	U	52		97		1	U	160				8021B
	8/7-8/01	-		10	U	59		-		-		13		14		-		-		83		-		180				CLP
	2/11-14/02	0.5	U	0.5	U	89		-		6		6		10		0.5	U	50		86		0.5	U	160		0.5	U	8260B
	8/12-14/02	0.5	U	10	U	110		-		5		9	J	11		1	U	0.5	U	75		0.5	U	110		0.5	U	CLP/8260B
	1/21-22/03	-		10	U	62		-		-		-		13		-		-		80		-		150				CLP
	7/14-15/03	1	U	17	U	66		-		-		1	U	1	U	4.2	U	35	J	1	U	0.5	UJ	21		0.5	J	8260B
	3/16-17/04	-		10	U	11		-		-		17		59		-		-		10		-		48				CLP
	9/29-30/04	0.16	J	0.37	J	64	J	-		-		0.5	U	16	J	0.84	U	25	J	61	J	0.16	J	37				8260B
	3/30-31/05	-		67	U	82		-		-		10	U	12		-		-		63		-		17				CLP
	10/3-4/05	-		25	U	73		-		-		0.27	J	15		0.5	U	24		56		0.5	U	13	J	0.5	U	8260B
	4/4-5/06	-		10	U	98		-		-		6	J	11		-		-		61		-		11		-		CLP
	9/27-28/06	0.50	U	0.25	J	59		-		-		0.50	U	5.3		0.50	U	18		43		0.50	U	11		0.50	U	8260B
	4/2-3/07	-		13	U	98		-		-		1.1		9.1		-		-		59		-		11		-		8260B
	9/18-19/07	0.50	U	0.25	J	75		-		-		0.47	J	11		0.50	U	39		69		0.50	U	9		0.50	U	8260B
	3/11/08	-		10	U	23		-		-		0.50	U	9.2		-		-		66		-		9.9		-		8260B
	9/8-9/08	0.50	U	8.3	U	34		-		-		0.22	J	9.4		0.50	U	37		52		0.50	U	7		0.50	U	8260B
	3/11-12/09	-		0.50	U	24		-		-		0.50	U	9.1		-		-		59		-		6.1		-		8260B
	9/1-2/09	0.50	U	0.20	J	20		-		-		0.50	U	8.1		0.50	U	28		41		0.50	U	2.9		0.50	U	8260B
	3/17-18/10	-		0.26	J	21		-		-		0.50	U	8.2		-		-		41		-		1.9		-		
	9/13-14/10	0.50	U	0.2	J	25		-		-		0.51		6.9		0.50	U	19		35		0.50	U	3.5		0.17	J	

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Methylene Chloride	6/20/94	8	J	120	U	6	J	11	J	36.2	UJ	36.2	UJ	140.1	J	36.2	UJ	36.2	UJ	8.58	J	36.2	UJ	36.2	UJ			CLP/8021
	9/27/94	10	U	490		14	U	25	U	10	U	4	J	73		180		10	U	28	U	10	U	58	U			CLP
MCL= 5 ug/l	2/06/95	10	U	150	U	10	U	25	U	1.5		10	U	93		50	U	10	U	10	U	1	U	10	U			CLP
NCS = 5 ug/l	4/11/95	10	U	200	U	10	U	25	U	10	U	10	U	120		71	U	10	U	10	U	10	U	10	U			CLP
	7/10/95	2	U	2	U	2.4		1.2	J	2	U	4.7		89		2	U	2.9		3.3		10	U	2.2				8021
	7/10/95	5	U	5	U	5	U	5	U	5	U	5	U	160		5	U	5	U	5.9	U	-		5	U			8260
	4/10/96	10	U	91	U	10	U	25	U	10	U	10	U	120		23	U	10	U	10	U	10	U	10	U			CLP
	4/8/97	1	U	1	U	0.71	J	-		1.4		1.6		100		1	U	0.7	J	1.1		0.656	J	0.63	J			8021
	1/15/98	1	J	20	U	2	J	-		2	J	3	J	90		4	J	1	J	2	J	1	J	2	J			CLP
	6/23/98	-		25	UJ	10	UJ	-		-		10	UJ	10	UJ	-		-		10	UJ	-		10	UJ			CLP
	1/12/99	1	U	1	U	1	U	-		1	U	1.8		2.3		1	U	1	U	1	U	1	U	1	U			8021B
	7/12/99	-		10	UJ	10	UJ	-		-		10	UJ	10	UJ	-		-		10	UJ	-		10	UJ			CLP
	2/1/00	1	J	1	U	0.76	J	-		0.7	J	1.5		1	U	1	U	1		0.82	J	1	U	0.98	J			8021B
	8/8/00	-		10	UJ	10	UJ	-		-		10	UJ	10	UJ	-		-		10	UJ	-		10	UJ			CLP
	2/12-14/01	1	J	1	U	0.71	J	-		0.7	J	1	U	1	U	1	U	0.93	J	0.54	J	1	U	1.4				8021B
	8/7-8/01	-		2	J	2	J	-		-		3	J	10	U	-		-		10	U	-		10	U			CLP
	2/11-14/02	0.5	U	0.5	U	3	U	-		0.5	U	0.5	U	0.5	U	0.5	U	0.7	J	0.5	J	0.5	U	0.8	J	0.50	U	8260B
	8/12-14/02	0.5	UJ	10	U	10	U	-		1	UJ	10	U	10	U	1	UJ	0.5	UJ	10	U	0.5	UJ	10	U	0.50	J	CLP/8260B
	1/21-22/03	-		10	U	10	U	-		-		-		10	U	-		-		10	U	-		10	U			CLP
	7/14-15/03	1	U	17	U	4	U	-		-		1	U	1	U	4.2	U	1	UJ	1	U	1	UJ	1	U	0.50	J	8260B
	3/16-17/04	-		10	U	10	U	-		-		-		10	U	-		-		10	U	-		10	U			CLP
	9/29-30/04	0.5	U	0.65	U	0.88	U	-		-		0.5	U	0.5	U	0.5	U	0.55	U	0.5	U	0.5	U	0.5	U			8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		25	U	0.66		-		-		0.5	U	0.31	J	0.5	U	0.38	J	0.76		0.5	U	0.5	U	0.50	U	8260B
	4/4-5/06	-		10	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U	-		CLP
	9/27-28/06	0.50	U	0.43	J	0.68	J	-		-		0.50	U	0.31	J	0.50	U	0.39	J	0.53	J	0.50	U	0.50	U	0.50	U	8260B
	4/2-3/07	-		3.3	J	10	U	-		-		0.50	U	0.3	J	-		-		1.3	J	-		0.50	U	-		8260B
	9/18-19/07	0.50	U	0.49	J	0.48	J	-		-		0.50	U	0.50	U	0.1	J	0.49	J	0.64		0.50	U	0.1	J	0.50	U	8260B
	3/11/08	-		10	UJ	0.50	UJ	-		-		0.50	UJ	0.5	J	-		-		0.50	UJ	-		0.50	UJ	-		8260B
	9/8-9/08	0.50	U	8.3	U	0.50	U	-		-		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	J	8260B
	3/11-12/09	-		0.50	U	0.50	U	-		-		0.50	U	0.50	U	-		-		0.50	U	-		0.50	U	-		8260B
	9/1-2/09	0.50	U	0.50	U	0.50	U	-		-		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-		0.50	U	0.21	J	-		-		0.50	U	0.50	U	-		-		0.34	J	-		0.50	U	-		
	9/13-14/10	0.50	U	0.50	U	0.50	U	-		-		0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	0.50	U	

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
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Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Tetrachloroethene	6/20/94	10	U	120	U	44		6	J	0.88	J	7.55	J	2.15	J	1.3	J	7.47	J	22.78		7.84	U	37.43				CLP/8021
	9/27/94	10	U	170	U	53		26		10	U	33		5	J	12	J	9	J	36		10	U	64				CLP
MCL= 5 ug/l	2/06/95	10	U	18	J	46		33		1	U	31		4	J	6	J	8	J	32		1	U	48				CLP
NCS = 0.7 ug/l	4/11/95	10	U	200	U	33		13	J	10	U	33		5	J	10	J	7	J	28		10	U	41				CLP
	7/10/95	2	U	12		31		13		2	U	42	J	5		13		10		27		10	U	40				8021
	7/10/95	5	U	9.9		37		14		5	U	38		3.6	J	5.7		8.1		31		-		30				8260
	4/10/96	10	U	20	J	46		10	J	10	U	36		4	J	4	J	12		37		10	U	41				CLP
	4/8/97	1	U	11		21		-		1	U	13		3.4		4.4		11		23		1	U	21				8021
	1/15/98	10	U	4	J	21		-		10	U	11		3	J	3	J	10		25		10	U	28				CLP
	6/23/98	-		12	J	16	J	-		-		18	J	3	J	-		-		19	J	-		26	J			CLP
	1/12/99	1	U	4.2		19		-		1	U	7.6		1.9		2.6		7		13		1	U	16				8021B
	7/12/99	-		3	J	19		-		-		8	J	2	J	-		-		10	U	-		29	J			CLP
	2/1/00	1	U	1.5		15		-		1	U	5.4		1.8		2.7		8.4		14		1	U	21				8021B
	8/8/00	-		4	J	24		-		-		7	J	1	J	-		-		14		-		16				CLP
	2/12-14/01	1	U	1.4		20		-		1	U	1	U	2		3.3		8		12		1	U	23				8021B
	8/7-8/01	-		3	J	9	J	-		-		5	J	1	J	-		-		11		-		25				CLP
	2/11-14/02	0.5	U	2		12		-		0.5	U	5		0.8		2		6		10		0.5	U	16		0.4	J	8260B
	8/12-14/02	0.5	U	2	J	14		-		1	U	3	J	1	J	1	U	0.5	U	11		0.5	U	15		0.50	U	CLP/8260B
	1/21-22/03	-		2	J	7	J	-		-		-		1	J	-		-		10		-		17				CLP
	7/14-15/03	1	U	17	U	4.4		-		-		1	U	1	U	4.2	U	5	J	1	U	1	UJ	2.3		U	U	8260B
	3/16-17/04	-		7	J	3	J	-		-		4	J	9	J	-		-		8	J	-		10				CLP
	9/29-30/04	0.5	U	6	J	5.2	J	-		-		0.65	J	1.6	J	1.3		3.1	J	5.9		0.5	U	5	J			8260B
	3/30-31/05	-		8	J	5	J	-		-		10	U	1	J	-		-		5	J	-		3	J			CLP
	10/3-4/05	-		25	U	5.9		-		-		0.53		1.5		2.6		3.4		5		0.5	U	5.1	J	0.50	U	8260B
	4/4-5/06	-		5	J	6	J	-		-		2	J	1	J	-		-		5	J	-		3	J	-		CLP
	9/27-28/06	0.50	U	5.6	J	5.4		-		-		0.50	U	0.85		1.5		2.7		3.1		0.50	U	1.6		0.50	J	8260B
	4/2-3/07	-		13	U	6	J	-		-		0.4	J	1.1	J	-		-		4.0	J	-		3	J	-		8260B
	9/18-19/07	0.50	U	6.2		2.7		-		-		0.19	J	1.4		1.3		2.7		3.9		0.50	U	2.2		0.50	U	8260B
	3/11/08	-		2.9	J	0.7	J	-		-		0.5	UJ	0.6	J	-		-		2.7	J	-		3.3	J	-		8260B
	9/8-9/08	0.50	U	3.5	J	1.2	J	-		-		0.50	U	1.3		3		1.7		2.7		0.50	U	3.9		0.50	U	8260B
	3/11-12/09	-		3.4	J	0.9	J	-		-		0.5	UJ	0.9	J	-		-		4.6	J	-		4.2	J	-		8260B
	9/1-2/09	0.50	U	4.5		0.43	J	-		-		0.50	U	1.1		2.7		0.89		1.4		0.50	U	0.80		0.50	U	8260B
	3/17-18/10	-		4.8		0.13	J	-		-		0.50	U	0.36	J	-		-		2.8		-		1.5		-		
	9/13-14/10	0.50	U	3.3		0.50	U	-		-		0.50	U	0.83		2.1		0.39	J	0.82	J	0.50	U	0.43	J	0.84		

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Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Trichloroethene	6/20/94	10	U	120	U	16		21	J	21.2	U	21.2	U	21.2	U	21.2	U	21.2	U	5.74	J	21.2	U	15.7	J			CLP/8021
	9/27/94	10	U	170	U	23		71		10	U	15		6	J	10	U	3	J	14		10	U	34				CLP
MCL= 5 ug/l	2/06/95	10	U	150	U	19		88		2.5	U	14		6	J	50	U	3	J	13		2.5	U	24				CLP
NCS = 3 ug/l	4/11/95	10	U	200	U	12		53		1	J	13		6	J	71	U	2	J	10		10	U	19				CLP
	7/10/95	2	U	1.2	J	20		67	J	1.6	J	28		8.6		2	U	5.8		16		10	U	21	J			8021
	7/10/95	5	U	5	U	16		47		1.2	J	15		6		5	U	3.1	J	13		-		17				8260
	4/10/96	10	U	91	U	21		28		10	U	16		6	J	23	U	4	J	15		10	U	19				CLP
	4/8/97	1	U	1.9		12		-		53	U	11		5.1		1.2		6		14		1	U	16				8021
	1/15/98	10	U	20	U	11		-		1	J	8	J	4	J	14	U	5	J	12		10	U	16				CLP
	6/23/98	-		25	UJ	8	J	-		-		9	J	3	J	-		-		10	J	-		15	J			CLP
	1/12/99	1	U	1	U	14		-		1	U	6.9		3.1		1	U	5		9.5		1	U	13				8021B
	7/12/99	-		3	J	10		-		-		10		3	J	-		-		10	U	-		15				CLP
	2/1/00	1	U	1	U	11		-		1	J	6.3		2.7		1	U	6.6		10		1	U	17				8021B
	8/8/00	-		10	U	12	J	-		-		10	U	10	U	-		-		10	U	-		11	J			CLP
	2/12-14/01	1	U	1	U	13		-		0.8	J	1	U	3.1		0.59	J	6.6		8.7		1	U	16				8021B
	8/7-8/01	-		10	U	5	J	-		-		6	J	2	J	-		-		7	J	-		15				CLP
	2/11-14/02	0.5	U	0.5	U	7		-		0.6		3		1		0.5	U	4		6		0.5	U	9		0.50	U	8260B
	8/12-14/02	0.5	U	10	U	12		-		1	U	6	J	4	J	1	U	0.5	U	9	J	0.5	U	12		0.50	U	CLP/8260B
	1/21-22/03	-		0.3	J	5	J	-		-		-		2	J	-		-		8	J	-		12				CLP
	7/14-15/03	1	U	17	U	4	U	-		-		2.1	J	1	U	4.2	U	3.5	J	1	U	1	UJ	1.5		0.50	J	8260B
	3/16-17/04	-		10	U	4	J	-		-		6	J	5	J	-		-		4	J	-		6	J			CLP
	9/29-30/04	0.5	U	0.97	J	4.6	J	-		-		1.1	J	2.6	J	0.84	U	3.2	J	4.7		0.5	U	4.6	J			8260B
	3/30-31/05	-		11	J	7	J	-		-		2	J	2	J	-		-		5	J	-		2	J			CLP
	10/3-4/05	-		25	U	5.5		-		-		2.2		2.6		0.21	J	2.5		5.3		0.5	U	2.1	J	0.50	U	8260B
	4/4-5/06	-		10	U	5	J	-		-		2	J	2	J	-		-		4	J	-		1	J	-		CLP
	9/27-28/06	0.50	U	0.73	J	5.4	J	-		-		0.39	J	1.2	J	0.21	J	2.7	J	3.1	J	0.50	U	1.6	J	0.50	J	8260B
	4/2-3/07	-		13	U	5	J	-		-		0.4	J	1.4		-		-		2.9		-		1	J	-		8260B
	9/18-19/07	0.50	U	0.63	J	5.6	J	-		-		0.73		1.7		0.50	U	2.8		4.6		0.50	U	1.2	J	0.50	U	8260B
	3/11/08	-		10	U	2.1		-		-		0.2	J	1.2		-		-		4.1		-		1.3		-		8260B
	9/8-9/08	0.50	U	8.3	U	3.4		-		-		0.41	J	1.6		0.19	J	2.7		4.7		0.50	U	1.3		0.50	U	8260B
	3/11-12/09	-		0.50	U	2.5		-		-		0.4	J	1.4		-		-		5.1		-		1.1		-		8260B
	9/1-2/09	0.50	U	0.44	J	2.3		-		-		0.50	U	1.4		0.16	J	2.6		4.4		0.50	U	0.47	J	0.50	U	8260B
	3/17-18/10	-		0.54		2.3		-		-		0.50	U	1.2		-		-		3.9		-		0.43	J	-		
	9/13-14/10	0.50	U	0.44	J	2.8		-		-		0.29	J	1.1		0.50	U	2.1		3.6		0.50	U	0.73		0.50	U	

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																											
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
1,1,1-Trichloroethane	6/20/94	10	U	1800		31		25	U	30.11	U	2.42	J	11.89	J	130.14	J	4.83	J	16.79	J	0.08	J	13.39	J			CLP/8021
	9/27/94	10	U	1900		35		25	U	10	U	6	J	18		1830		5	J	24		5	J	16				CLP
MCL= 200 ug/l	2/06/95	10	U	2700		31		25	U	1	U	6	J	14		650		5	J	18		2.5		14				CLP
NCS = 200 ug/l	4/11/95	10	U	2000		21		25	U	10	U	5	J	16		1300		5	J	17		3	J	10				CLP
	7/10/95	2	U	1600		26		2	U	2	U	6		12		990		5.9		17		10	U	7.8				8021
	7/10/95	5	U	1600		21		5	U	5	U	4.9	J	9.8		740		4.8	J	16		-		7				8260
	4/10/96	10	U	1300		21		25	U	10	U	8	J	8	J	290		6	J	15		4	J	7	J			CLP
	4/8/97	1	U	770		8.2		-		1	U	4.5		1.5		570		6.1		11		4.1		2.9				8021
	1/15/98	10	U	320		7	J	-		10	U	4	J	10	U	150		7	J	9	J	5	J	3	J			CLP
	6/23/98	-		710	J	3	J	-		-		3	J	10	UJ	-		-		6	J	-		3	J			CLP
	1/12/99	1	U	310		4.7		-		1	U	2.5		1	U	170		6.3		5.4		3.4		1.2				8021B
	7/12/99	-		190		3	J	-		-		2	J	10	U	-		-		10	U	-		1	J			CLP
	2/1/00	1	U	110		2.8		-		1.7		1	U	180	J	6		3.9		3.9		1.7		1.7				8021B
	8/8/00	-		250	J	3	J	-		-		2	J	10	U	-		-		10	U	-		1	J			CLP
	2/12-14/01	1	U	89		3.4		-		1	U	1	U	1	U	380		1	U	2.5		2.4		2.8				8021B
	8/7-8/01	-		89		1	J	-		-		10	U	10	U	-		-		2	J	-		2	J			CLP
	2/11-14/02	0.5	U	41		3	U	-		0.5	U	0.5	U	0.5	U	130		3		2		1		2		0.50	U	8260B
	8/12-14/02	0.5	U	130		10	U	-		1	U	10	U	10	U	58		0.5	U	10	U	0.5	U	10	U	0.50	U	CLP/8260B
	1/21-22/03	-		180		1	J	-		-		-		10	U	-		-		2	J	-		1	J			CLP
	7/14-15/03	1	U	550		4	U	-		-		1	U	1	U	70		3.3	J	1	U	1.1	J	1	U	0.50	J	8260B
	3/16-17/04	-		630		10	U	-		-		10	U	3	J	-		-		10	U	-		10	U			CLP
	9/29-30/04	0.5	U	580	J	0.5	U	-		-		0.95	J	0.37	J	40		3.2	J	2.1		1.2		0.33	J			8260B
	3/30-31/05	-		760	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U			CLP
	10/3-4/05	-		740		0.5	U	-		-		0.5	U	0.5	U	150		1	U	1.4		0.86		0.5	U	0.50	U	8260B
	4/4-5/06	-		700		10	U	-		-		10	U	10	U	-		-		1	J	-		10	U	-		CLP
	9/27-28/06	0.50	U	350	J	2.5	U	-		-		0.50	U	0.50	U	25	J	1.2		1.4		0.59	J	0.50	U	0.50	J	8260B
	4/2-3/07	-		300		10	U	-		-		0.50	U	0.50	U	-		-		2.5	U	-		0.50	U	-		8260B
	9/18-19/07	0.50	U	570		0.50	U	-		-		0.50	U	0.50	U	25		0.56		1.4		0.64		0.50	U	0.50	U	8260B
	3/11/08	-		320		0.50	U	-		-		0.50	U	0.50	U	-		-		2.5	U	-		0.50	U	-		8260B
	9/8-9/08	0.50	U	310	J	0.50	U	-		-		0.50	U	0.50	U	91		0.50	U	0.50	U	0.93		0.50	U	0.50	U	8260B
	3/11-12/09	-		200		0.50	U	-		-		0.50	U	0.50	U	-		-		0.50	U	-		0.50	U	-		8260B
	9/1-2/09	0.50	U	370		0.50	U	-		-		0.50	U	0.50	U	72		0.12	J	0.50	U	0.43	J	0.50	U	0.50	U	8260B
	3/17-18/10	-		470		0.50	U	-		-		0.1	J	0.50	U	-		-		0.082	J	-		0.50	U	-		
	9/13-14/10	0.50	U	330		0.50	U	-		-		0.50	U	0.50	U	58		0.50	U	0.50	U	0.35	J	0.50	U	0.50	U	8260B

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																										
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type
Vinyl Chloride	6/20/94	10	U	120	U	10	U	10	J	6.6	UJ	6.6	UJ	6.6	UJ	6.6	UJ	6.6	UJ	6.6	UJ	6.6	UJ	6.6	UJ			CLP/8021
	9/27/94	10	U	170	U	3	J	10	J	10	U	5	J	10	U	10	U	10	U	10	U	10	U	14	U			CLP
MCL= 2 ug/l	2/06/95	10	U	150	U	2	J	20	J	3.6		6	J	10	U	50	U	10	U	10	U	1	U	10	U			CLP
NCS = 0.03 ug/l	4/11/95	10	U	200	U	10	U	10	J	2	J	6	J	10	UJ	71	U	10	U	10	UJ	10	UJ	10	U			CLP
	7/10/95	2	U	2	U	2.9	J	12	J	2	U	11	J	2	U	2	U	2	U	2.3		10	U	0.94	J			8021
	7/10/95	5	U	5	U	3.1	J	23		5	U	7.2		5	U	5	U	5	U	5	U	-		5	U			8260
	4/10/96	10	U	91	U	2	J	14	J	10	U	5	J	10	U	23	U	10	U	10	U	10	U	10	U			CLP
	4/8/97	1	U	1	U	0.98		-		1	U	3	J	1	U	1	U	2.8	J	1	U	1	U	4	J			8021
	1/15/98	10	U	20	U	10	U	-		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U			CLP
	6/23/98	-		25	UJ	10	UJ	-		-		2	J	10	UJ	-		-		2	J	-		2	J			CLP
	1/12/99	1	U	1	U	5		-		1	U	1.8		2		1	U	1	U	2.8		1	U	3.1				8021B
	7/12/99	-		10	U	2	J	-		-		10	U	10	U	-		-		10	U	-		2	J			CLP
	2/1/00	1	U	1	U	4.2		-		0.75	J	1.7		3.1		1	U	2.4		3.8		1	U	5.5				8021B
	8/8/00	-		10	U	5	J	-		-		10	U	2	J	-		-		2	J	-		2	J			CLP
	2/12-14/01	1	U	1	U	6.6	J	-		1	U	1	U	2.8	J	1	U	2.9	J	3.9	J	1	U	8	J			8021B
	8/7-8/01	-		10	U	10	U	-		-		10	U	2	J	-		-		3	J	-		8	J			CLP
	2/11-14/02	0.5	U	0.5	U	4		-		2		0.5	U	1		0.5	U	3		4		0.5	U	6		0.50	U	8060B
	8/12-14/02	0.5	U	10	U	5	J	-		2	J	10	U	10	U	1	U	0.5	U	3	J	0.5	U	4	J	0.50	U	CLP/8260B
	1/21-22/03	-		10	U	0.9	J	-		-		-		0.9	J	-		-		2	J	-		4	J	-		CLP
	7/14-15/03	1	U	17	U	4	U	-		-		1	U	1	U	4.2	U	1.8	J	1	U	1	UJ	1.2		0.50	J	8060B
	3/16-17/04	-		10	U	10	U	-		-		10	U	3	J	-		-		10	U	-		10	U	-		CLP
	9/29-30/04	0.5	U	1.3	J	4.7	J	-		-		0.5	U	2.9	J	0.84	U	3.1	J	3.3		0.5	U	2.4	J	-		8260B
	3/30-31/05	-		67	U	10	U	-		-		10	U	10	U	-		-		10	U	-		10	U	-		CLP
	10/3-4/05	-		25	UJ	5.8	J	-		-		0.5	UJ	2.4	J	0.5	UJ	3.4	J	4.3	J	0.5	UJ	0.25	J	0.50	J	8260B
	4/4-5/06	-		10	U	8	J	-		-		10	U	10	U	-		-		5	J	-		10	U	-		CLP
	9/27-28/06	0.50	U	0.48	J	3.6		-		-		0.50	U	0.76		0.50	U	2.8		2.6		0.50	U	0.50	U	0.50	U	8260B
	4/2-3/07	-		13	U	1.2	J	-		-		0.50	U	1.5		-		-		3.4		-		0.50	U	-		8260B
	9/18-19/07	0.50	U	0.41	J	3.2		-		-		0.50	U	1.3		0.50	U	3.1		4		0.50	U	0.50	U	0.50	U	8260B
	3/11/08	-		10	U	0.50	U	-		-		0.50	U	1.4		-		-		4.2		-		0.50	U	-		8260B
	9/8-9/08	0.50	U	8.3	U	0.50	U	-		-		0.50	U	1.4		0.50	U	2.6		3		0.50	U	0.50	U	0.50	U	8260B
	3/11-12/09	-		0.2	J	0.1	J	-		-		0.50	U	1.7		-		-		2.9		-		0.50	U	-		8260B
	9/1-2/09	0.50	U	0.38	J	0.18	J	-		-		0.50	U	1.8		0.50	U	1.5		1.9		0.50	U	0.50	U	0.50	U	8260B
	3/17-18/10	-		0.55	J	0.23	J	-		-		0.50	U	1.9	J	-		-		1.7	J	-		0.50	U	-		
	9/13-14/10	0.50	U	0.37	J	0.50	U	-		-		0.50	U	2	J	0.50	U	0.37	J	1.3		0.50	U	0.50	U	0.50	U	8260B

Watauga County Landfill
Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5A
Assessment Organic Target Parameter Analytical Results
1994-2010
Core Groundwater Monitoring Wells

Parameter	Event	Results ug/l(ppb)																													
		MW-1		MW-2		MW-3		MW-6		MW-7		MW-8		MW-9		MW-10		MW-11		MW-12		MW-15		MW-17		MW-19		Analysis Type

TABLE 5A NOTES:

U Denotes not detected (the associated numerical value is the CRQL/LOQ).
J Denotes an estimated value
CRQL Contract Required Quantification Limit (CLP Methods)
LOQ Limit of Quantitation (SW-846 Methods)
- Denotes Not Avaliable or Not Sampled
Shading - denotes Parameter results that exceed U.S. EPA Maximum Contaminant Levels.

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)
MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)

ANALYSIS TYPE:
1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO1.9(3/90), SW-846 Method #8260 and/or #8021, as noted.
2) For the 6/94 event, monitoring wells MW-8, MW-9, MW-10, MW-11, MW-12, MW-15 and MW-17, SW-846 anlytical method #8021 analysis was performed.
For the 8//02 event, monitoring wells MW-1, MW-10, MW-11, and MW-15, SW-846 analytical method #8260b, 25 ml purge analysis was performed.
Other monitoring locations were analyzed using CLP analytical methods.

j:\6520-21\CORRESP\REPORTS\TABLE5A3.XLS

Table 5B

Watauga County, North Carolina — Assessment Organic Target Parameter Analytical Results (1994-2006)

Upgradient Well: MW-1 — Boundary Groundwater Monitoring Wells

Parameter Results ug/l(ppb)	Event	MW-4		MW-5		MW-13		MW-14		MW-15		MW-16		MW-18		Analysis Type	NCS (ug/L)	MCL (ug/L)
Benzene	6/20/94	10	U	-		5.3	U	5.3	U	5.3	U	5.3	U	5.3	U	8021	1	5
	9/27/94	2	J	-		10	U	10	U	10	U	2	J	1	J	CLP	1	5
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	1	5
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	1	5
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	1	5
	4/10/96	-		-		-		-		10	U	-		-		CLP	1	5
	4/8/97	-		-		-		-		1	U	-		-		8021	1	5
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	1	5
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	1	5
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	1	5
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	1	5
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	1	5
Chloroethane	6/20/94	10	U	-		9.29	U	9.29	U	9.29	U	9.29	U	9.29	U	8021	3000	-
	9/27/94	18		-		10	U	10	U	10	U	10	U	10	U	CLP	3000	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	3000	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	3000	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	3000	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	3000	-
	4/8/97	-		-		-		-		1	U	-		-		8021	3000	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	3000	-
	2/12-14/01	2	U	2	U	2	U	2	U	2	U	-		2	U	8021	3000	-
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	3000	-
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	3000	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	3000	-
Dichlorodifluoromethane	6/20/94	10	U	-		46.64	U	46.64	U	46.64	U	46.64	U	46.64	U	8021	1000	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	1000	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	1000	-
	4/11/95	10	U	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ	CLP	1000	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	1000	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	1000	-
	4/8/97	-		-		-		-		1	U	-		-		8021	1000	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	1000	-
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	1000	-
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	1000	-
	8/12-14/02	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	8260B	1000	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	1000	-
1,1-Dichloroethane	6/20/94	10	U	-		0.99	J	43.1	U	0.26	J	43.1	U	43.1	U	8021	6	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	6	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	6	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	6	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	6	-
	4/10/96	-		-		-		-		10	U	-		-		CLP	6	-
	4/8/97	-		-		-		-		1	U	-		-		8021	6	-
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	6	-
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	6	-
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	6	-
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	6	-
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	6	-

Table 5B

Watauga County, North Carolina — Assessment Organic Target Parameter Analytical Results (1994-2006)

Upgradient Well: MW-1 — Boundary Groundwater Monitoring Wells

Parameter Results ug/l(ppb)	Event	MW-4		MW-5		MW-13		MW-14		MW-15		MW-16		MW-18		Analysis Type	NCS (ug/L)	MCL (ug/L)
1,1-Dichloroethene	6/20/94	10	U	-		9.75	U	9.75	U	9.75	U	9.75	U	9.75	U	8021	7	7
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	7	7
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	7	7
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	7	7
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	7	7
	4/10/96	-		-		-		-		10	U	-		-		CLP	7	7
	4/8/97	-		-		-		-		0.77	J	-		-		8021	7	7
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	7	7
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	7	7
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	7	7
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	7	7
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	7	7
cis-1,2-Dichloroethene(3)	6/20/94	10	U	-		9.49	U	9.49	U	9.49	U	9.49	U	9.49	U	8021	70	70
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	70	70
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	70	70
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	70	70
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	70	70
	4/10/96	-		-		-		-		10	U	-		-		CLP	70	70
	4/8/97	-		-		-		-		1	U	-		-		8021	70	70
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	70	70
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	70	70
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	70	70
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	70	70
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	70	70
trans-1,3-Dichloropropene	6/20/94	10	U	-		24.49	U	24.49	U	24.49	U	24.49	U	24.49	U	8021	100	-
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	100	-
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	100	-
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	100	-
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	100	-
Methylene Chloride	6/20/94	10	U	-		36.2	UJ	36.2	UJ	36.2	UJ	36.2	UJ	36.2	U	8021	5	5
	9/27/94	13	U	-		10	U	10	U	10	U	33		27		CLP	5	5
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	5	5
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	5	5
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	5	5
	4/10/96	-		-		-		-		10	U	-		-		CLP	5	5
	4/8/97	-		-		-		-		0.656	J	-		-		8021	5	5
	1/15/98	-		-		-		-		1	J	-		-		CLP	5	5
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	5	5
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	5	5
	8/12-14/02	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	0.5	UJ	8260B	5	5
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	5	5
Tetrachloroethene	6/20/94	10	U	-		7.84	U	0.24	J	7.84	U	7.84	U	7.84	U	8021	0.7	5
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	0.7	5
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	0.7	5
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	0.7	5
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	0.7	5
	4/10/96	-		-		-		-		10	U	-		-		CLP	0.7	5
	4/8/97	-		-		-		-		1	U	-		-		8021	0.7	5
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	0.7	5
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	0.7	5
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	0.7	5
	8/12-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	0.7	5
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	0.7	5

Table 5B

Watauga County, North Carolina — Assessment Organic Target Parameter Analytical Results (1994-2006)

Upgradient Well: MW-1 — Boundary Groundwater Monitoring Wells

Parameter Results ug/l(ppb)	Event	MW-4		MW-5		MW-13		MW-14		MW-15		MW-16		MW-18		Analysis Type	NCS (ug/L)	MCL (ug/L)
Trichloroethene	6/20/94	10	U	-		21.2	U	21.2	U	21.2	U	21.2	U	21.2	U	8021	3	5
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	3	5
	2/06/95	10	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	2.5	U	8021	3	5
	4/11/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	CLP	3	5
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	3	5
	4/10/96	-		-		-		-		10	U	-		-		CLP	3	5
	4/8/97	-		-		-		-		1	U	-		-		8021	3	5
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	3	5
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	3	5
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	3	5
	8/12-14/02	0.5	U	0.5	U	0.5	U	1	J	0.5	U	0.5	U	0.5	U	8260B	3	5
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	3	5
1,1,1-Trichloroethane	6/20/94	10	U	-		30.11	U	30.11	U	0.08	J	30.11	U	30.11	U	8021	200	200
	9/27/94	10	U	-		10	U	10	U	5	J	10	U	10	U	CLP	200	200
	2/06/95	10	U	1	U	1	U	1	U	2.5		1	U	1	U	8021	200	200
	4/11/95	10	U	10	U	10	U	1	J	3	J	10	U	10	U	CLP	200	200
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	200	200
	4/10/96	-		-		-		-		4	J	-		-		CLP	200	200
	4/8/97	-		-		-		-		4.1		-		-		8021	200	200
	1/15/98	10	U	10	U	10	U	10	U	5	J	-		10	U	CLP	200	200
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	200	200
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	200	200
	8/12-14/02	0.5	U	0.5	U	0.5	U	1		0.5	U	0.5	U	0.5	U	8260B	200	200
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	200	200
Vinyl Chloride	6/20/94	10	U	-		6.6	UJ	6.6		6.6	UJ	6.6	UJ	6.6	U	8021	0.03	2
	9/27/94	10	U	-		10	U	10	U	10	U	10	U	10	U	CLP	0.03	2
	2/06/95	10	U	1	U	1	U	1	U	1	U	1	U	1	U	8021	0.03	2
	4/11/95	10	UJ	10	U	10	U	10	UJ	10	UJ	10	UJ	10	UJ	CLP	0.03	2
	7/10/95	10	U	10	U	10	U	10	U	10	U	10	U	10	U	8021	0.03	2
	4/10/96	-		-		-		-		10	U	-		-		CLP	0.03	2
	4/8/97	-		-		-		-		1	U	-		-		8021	0.03	2
	1/15/98	10	U	10	U	10	U	10	U	10	U	-		10	U	CLP	0.03	2
	2/12-14/01	1	U	1	U	1	U	1	U	1	U	-		1	U	8021	0.03	2
	2/11-14/02	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U	8260B	0.03	2
	8/12-14/02	0.5	U	0.5	U	0.5	U	1	U	0.5	U	0.5	U	0.5	U	8260B	0.03	2
	9/27-28/06	0.5	U	0.5	U	0.5	U	0.5	U	-		-		0.5	U	8260B	0.03	2

TABLE 5B NOTES:

U Denotes not detected above Instrument Detection Level (IDL) for Inorganics and not detected above CRQL/LOQ for Organics.

J Denotes an estimated value

CRQL Contract Required Quantification Limit (CLP Methods)

LOQ Limit of Quantitation (SW-846 Methods)

\- Denotes Not Avaliable or Not Sampled

NCS Denotes North Carolina Groundwater Quality Standard (T15A: 02L .0200)

MCL Denotes EPA Maximum Contaminant Level (EPA 822-R-94-001)

Shading - denotes parameter results that exceed U.S. EPA Maximum Contaminant Levels.

ANALYSIS TYPE NOTES:

1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO3.2, SW-846 Method #8260B and/or #8021, as noted.

2) For CLP, 1,2-Dichloroethene was reported as total concentration; for 8021/8260B concentration was reported for cis-isomer.

P:\06\500\06520\06520-39\Reports\2010 tables\September 2010 Tables\[XLS - 10 1223 - NCDENR - TABLE5BC - JES.xls]SURFACE WATER

Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
ORGANICS																	
Benzene	6/20/94	10	U	3	J	10	U	1	J	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 51 ug/l	2/06/95	10	U	10	U	10	U	10	U	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	10	U	10	U	10	U	10	U	-		-		-	
	4/10/96	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	4/8/97	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	1/15/98	10	U	3	J	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	1	J	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	8/8/00	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	2/12-14/01	10	U	2	J	10	U	10	U	10	U	10	UJ	-		-	
	8/7-8/01	10	U	10	U	10	U	10	U	2	J	10	U	-		-	
	2/11-14/02	10	U	2	J	10	U	10	U	10	U	10	UJ	-		-	
	8/12-14/02	DRY		4	J	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	2	J	10	U	10	U	10	U	10	UJ	-		-	
	7/14-15/03	10	U	2	J	10	U	10	U	10	U	10	UJ	-		-	
	3/16-17/04	10	U	10	J	10	U	10	U	10	U	10	UJ	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	1	J	10	U	10	U	10	U	NS	U	-		-	
	9/27-28/06	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	1	J	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
	3/17-18/10	5	U	1.1	J	5	U	5	U	5	U	5	U	-		-	
Chloroethane	6/20/94	10	U	56		10	U	10	U	11		-		-		-	
	9/27/94	-		-		-		-		-		-		13		10	U
WQS = 550 ug/l	2/06/95	10	U	26		10	U	2	J	7	J	-		6	J	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	15		10	U	10	U	4	J	10	U	-		-		-	
	4/10/96	8	J	46		10	U	3	J	5	J	10	U	-		-	
	4/8/97	10	U	50		10	U	1	J	23		10	U	-		-	
	1/15/98	10	U	56		10	U	10	U	10	U	10	U	-		-	
	6/23/98	2	J	26	J	10	UJ	1	J	4	J	10	UJ	-		-	
	1/12/99	10	U	71		10	U	3	J	10	U	10	U	-		-	
	7/12/99	10	U	58		10	U	10	U	10	U	10	U	-		-	
	2/1/00	1	J	70		10	U	2	J	10	U	10	U	-		-	
	8/8/00	5	J	44		10	U	2	J	10	U	10	UJ	-		-	
	2/12-14/01	10	U	110		23		10	U	4	J	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	10	U	72		10	U	-		-	
	2/11-14/02	10	U	55		23		10	U	10	U	10	U	-		-	
	8/12-14/02	DRY		150	J	10	UJ	10	UJ	DRY		10	UJ	-		-	
	1/21-22/03	10	U	57		10	U	2	J	10	U	10	U	-		-	
	7/14-15/03	10	U	47		10	U	10	U	10	U	10	U	-		-	
	3/16-17/04	10	U	9	J	10	U	10	U	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	31		10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	44		10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	39		10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	3	J	10	U	-		-	
	4/2-3/07	10	U	29		10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	18		10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	26		10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	6	J	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	6	J	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	4.6	J	5	U	5	U	5	U	5	U	-		-	
	3/17-18/10	5	U	16		5	U	5	U	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
Dichlorodifluoromethane	6/20/94	10	U	4	J	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 77000 ug/l	2/06/95	10	U	10	U	10	U	10	U	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-		-	
	4/10/96	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/8/97	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	1/15/98	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	10	U	10	UJ	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/12-14/01	10	U	14		10	U	10	U	10	U	10	U	-		-	
	8/7-8/01	10	UJ	10	UJ	10	UJ	10	UJ	3	J	10	UJ	-		-	
	2/11-14/02	10	UJ	10	UJ	10	UJ	10	UJ	10	U	10	UJ	-		-	
	8/12-14/02	DRY		10	UJ	10	UJ	10	UJ	DRY		10	UJ	-		-	
	1/21-22/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/14-15/03	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	3/16-17/04	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	10/3-4/05	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	4/4-5/06	10	U	10	J	10	J	10	J	4	J	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	4	J	10	U	-		-	
	4/2-3/07	10	U	0.4	J	10	U	10	U	1	J	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	2	J	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	2.5	J	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	5	U	0.4	J	5	U	-		-	
1,1-Dichloroethane	6/20/94	1	J	23		10	U	59		2	J	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 170000 ug/l	2/06/95	10	U	10	U	10	U	45		10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	6	J	20		10	U	41		2	J	-		-		-	
	4/10/96	3	J	15		10	U	30		2	J	14		-		-	
	4/8/97	10	U	14		10	U	12		10	U	14		-		-	
	1/15/98	10	U	15		10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	8	J	10	UJ	15	J	10	UJ	10	UJ	-		-	
	1/12/99	10	U	12		10	U	14		10	U	1	J	-		-	
	7/12/99	10	U	11	J	10	U	5	J	10	U	10	U	-		-	
	2/1/00	10	U	9	J	10	U	12		10	U	1	J	-		-	
	8/8/00	3	J	7	J	10	U	13		10	U	1	J	-		-	
	2/12-14/01	10	U	10	U	2	J	10	U	14		1	J	-		-	
	8/7-8/01	10	U	10	U	10	U	7	J	10	J	10	U	-		-	
	2/11-14/02	10	U	11		10	U	9	J	10	U	10	U	-		-	
	8/12-14/02	DRY		17		10	U	10		DRY		10	U	-		-	
	1/21-22/03	10	U	9	J	10	U	7	J	10	U	10	U	-		-	
	7/14-15/03	10	U	12		10	U	8	J	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	6	J	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	1	J	10	U	DRY		-		-	
	3/30-31/05	10	U	8	J	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	9	J	10	U	3	J	10	U	10	U	-		-	
	4/4-5/06	10	U	7	J	10	U	3	J	10	U	NS		-		-	
	9/27-28/06	10	U	6	J	10	U	2	J	10	U	10	U	-		-	
	4/2-3/07	10	U	5	J	10	U	2	J	10	U	10	U	-		-	
	9/18-19/07	10	U	6	J	10	U	3	J	10	U	10	U	-		-	
	3/11/08	10	U	3	J	10	U	2	J	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	0.54	0.54	J	5	U	5	U	1.8	J	0.81	J	10	U	-		-	
	3/17-18/10	5	U	2	J	5	U	1.4	J	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
1,1-Dichloroethene	6/20/94	10	U	10	U	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 7100 ug/l	2/06/95	10	U	10	U	10	U	10	U	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	10	U	10	U	10	U	10	U	-		-		-	
	4/10/96	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/8/97	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	1/15/98	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	10	U	10	U	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/12-14/01	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/11-14/02	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/14-15/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	10	U	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	10	U	5	U	5	U	-		-	
cis-1,2-Dichloroethene(2)	6/20/94	10	U	4	J	10	U	58		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 4900 ug/l	2/06/95	10	U	10	U	10	U	42		10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	1	J	3	J	10	U	42		10	U	-		-		-	
	4/10/96	10	U	5	J	10	U	35		10	U	16		-		-	
	4/8/97	10	U	6	J	10	U	15		10	U	16		-		-	
	1/15/98	10	U	5	J	10	U	1	J	10	U	10	U	-		-	
	6/23/98	10	UJ	4	J	10	UJ	21	J	10	UJ	10	UJ	-		-	
	1/12/99	10	U	4	J	10	U	30		10	U	2	J	-		-	
	7/12/99	10	U	5	J	10	U	8	J	10	U	10	U	-		-	
	2/1/00	4	J	4	J	10	U	25		10	U	2	J	-		-	
	8/8/00	10	U	2	J	10	U	27		10	U	2	J	-		-	
	2/12-14/01	10	U	2	J	10	U	28		10	U	2	J	-		-	
	8/7-8/01	10	U	10	U	10	U	14		10	U	3	J	-		-	
	2/11-14/02	10	U	2	J	10	U	17		10	U	2	J	-		-	
	8/12-14/02	DRY		3	J	10	U	22		DRY		3	J	-		-	
	1/21-22/03	10	U	3	J	10	U	18		10	U	0.7	J	-		-	
	7/14-15/03	10	U	3	J	10	U	15		10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	16		10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	3	J	10	U	DRY		-		-	
	3/30-31/05	10	U	3	J	10	U	8	J	10	U	DRY		-		-	
	10/3-4/05	10	U	2	J	10	U	5	J	10	U	10	U	-		-	
	4/4-5/06	10	U	2	J	10	U	7	J	10	U	NS		-		-	
	9/27-28/06	10	U	1	J	10	U	6	J	10	U	10	U	-		-	
	4/2-3/07	10	U	1	J	10	U	7	J	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	5	J	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	6	J	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	3	J	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	9	J	10	U	10	U	-		-	
	9/1-2/09	5	U	0.29	J	5	U	4.8	J	5	U	5	U	-		-	
	3/17-18/10	5	U	1	J	5	U	3.4	J	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
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Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
Methylene Chloride	6/20/94	6	J	9	J	3	J	1	J	8	J	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 590 ug/l	2/06/95	10	U	2	J	3	J	1	J	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	10	U	10	U	10	U	10	U	-		-		-	
	4/10/96	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/8/97	10	U	3	J	1	J	10	U	10	U	10	U	-		-	
	1/15/98	1	J	4	J	4	J	1	J	2	J	2	J	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	10	UJ	10	UJ	10	UJ	10	U	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/12-14/01	10	U	3	J	10	U	10	U	2	J	10	U	-		-	
	8/7-8/01	10	U	3	J	10	U	10	U	1	J	10	U	-		-	
	2/11-14/02	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/14-15/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	1	J	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	2	J	2	J	1	J	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	1	J	10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	0.9	J	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	2.2	J	1.5	J	5	U	-		-	
Tetrachloroethene	6/20/94	10	U	10	U	10	U	18		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 3.3 ug/l	2/06/95	10	U	10	U	10	U	12		10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	10	U	10	U	11		10	U	-		-		-	
	4/10/96	10	U	10	U	10	U	9	J	1	J	4	J	-		-	
	4/8/97	10	U	10	U	10	U	4	J	10	U	4	J	-		-	
	1/15/98	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	5	J	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	6	J	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	2	J	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	3	J	10	U	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	2/12-14/01	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	2/11-14/02	10	U	10	U	10	U	3	J	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	2	J	DRY		10	U	-		-	
	1/21-22/03	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	7/14-15/03	10	U	10	U	10	U	1	J	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	10	U	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	10	U	10	U	0.5	J	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	0.36	J	0.54	J	0.33	J	5	U	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	5	U	5	U	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
Trichloroethene	6/20/94	10	U	1	J	10	U	13		10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 30 ug/l	2/06/95	10	U	10	U	10	U	8	J	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	1	J	10	U	8	J	10	U	-		-	-	-	-
	4/10/96	10	U	1	J	10	U	6	J	1	J	3	J	-		-	
	4/8/97	10	U	1	J	10	U	3	J	10	U	3	J	-		-	
	1/15/98	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	3	J	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	4	J	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	1	J	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	3	J	10	U	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	3	JB	10	U	10	UJ	-		-	
	2/12-14/01	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	2/11-14/02	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	0.5	J	10	U	2	J	10	U	10	U	-		-	
	7/14-15/03	10	U	10	U	10	U	1	J	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	2	J	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	10	U	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	10	U	10	U	0.6	J	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	0.41	J	5	U	0.67	J	5	U	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	0.5	J	5	U	5	U	-		-	
1,1,1-Trichloroethane	6/20/94	10	U	2	J	10	U	3	J	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 2500 ug/l*	2/06/95	10	U	10	U	10	U	2	J	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	1	J	10	U	2	J	10	U	-		-		-	
	4/10/96	10	U	10	U	10	U	2	J	2	J	1	J	-		-	
	4/8/97	10	U	10	U	10	U	10	U	10	U	1	J	-		-	
	1/15/98	10	U	10	U	10	U	10	U	2	J	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	10	U	3	J	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	10	U	10	U	10	UJ	-		-	
	2/12-14/01	10	U	10	U	10	U	3	J	3	J	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	10	U	10	U	10	UJ	-		-	
	2/11-14/02	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/14-15/03	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	10	U	5	J	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	10	U	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	2	J	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
	3/17-18/10	5	U	5	U	5	U	5	U	0.7	J	5	U	-		-	

Watauga County, North Carolina
Upgradient Well: MW-1
06/06/11

Table 5C
Assessment Organic Target Parameter Analytical Results
Surface Water Sampling Locations

Results ug/l(ppb)

Parameter	Event	S1		S2		S3		S4		S5		S6		L1		Mt. Spring	
Vinyl Chloride	6/20/94	10	U	10	U	10	U	10	U	10	U	-		-		-	
	9/27/94	-		-		-		-		-		-		10	U	10	U
WQS = 2.4 ug/l	2/06/95	10	U	10	U	10	U	2	J	10	U	-		10	U	-	
	4/11/95	-		-		-		-		-		-		-		-	
	7/10/95	10	U	10	U	10	U	3	J	10	U	-		-		-	
	4/10/96	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/8/97	10	U	2	J	10	U	10	U	10	U	10	U	-		-	
	1/15/98	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	6/23/98	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	10	UJ	-		-	
	1/12/99	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	7/12/99	10	U	17	U	10	U	10	U	10	U	10	U	-		-	
	2/1/00	10	U	10	U	10	U	10	U	10	UJ	10	UJ	-		-	
	8/8/00	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/12-14/01	10	U	10	U	10	U	10	U	4	J	10	U	-		-	
	8/7-8/01	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	2/11-14/02	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	8/12-14/02	DRY		10	U	10	U	10	U	DRY		10	U	-		-	
	1/21-22/03	10	U	0.9	J	10	U	10	U	10	U	10	U	-		-	
	7/14-15/03	10	U	1	J	10	U	10	U	10	U	10	U	-		-	
	3/16-17/04	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/29-30/04	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	3/30-31/05	10	U	10	U	10	U	10	U	10	U	DRY		-		-	
	10/3-4/05	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/4-5/06	10	U	10	U	10	U	10	U	10	U	NS		-		-	
	9/27-28/06	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	4/2-3/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/18-19/07	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/8-9/08	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	3/11-12/09	10	U	10	U	10	U	10	U	10	U	10	U	-		-	
	9/1-2/09	5	U	5	U	5	U	5	U	5	U	5	U	-		-	
	3/17-18/2010	5	U	5	U	5	U	5	U	5	U	5	U	-		-	

TABLE 5B NOTES:

U Denotes not detected (the associated numerical value is the CRQL).

J Denotes an estimated value

CRQL Contract Required Quantification Limit (CLP Methods)

\- Denotes Not Avaliable or Not Sampled

WQS Denotes North Carolina 15A NCAC 2B Surface Water Quality Standard (Human Health) or National Criteria per EPA, current 4/30/09

* freshwater aquatic life standard (no human health standard available).

Shading Denotes results that exceed North Carolina Surface Water Quality Standard.

ANALYSIS TYPE:

1) Organic parameters were analyzed utilizing CLP Statement of Work OLMO3.2.

2) For CLP analyses, 1,2-Dichloroethene is reported as total concentration.

CompuChem

A Division Of

Liberty Analytical Corp.

3/25/2011

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1103087

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER **Work:** 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39 **Sdg:** 1103087

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1103087-01	MW-3	Water	03/17/2011 11:45	03/18/2011 09:30
1103087-02	MW-2	Water	03/16/2011 15:00	03/18/2011 09:30
1103087-03	MW-8	Water	03/17/2011 12:15	03/18/2011 09:30
1103087-04	MW-9	Water	03/16/2011 12:30	03/18/2011 09:30
1103087-05	MW-12	Water	03/17/2011 13:00	03/18/2011 09:30
1103087-06	MW-17	Water	03/17/2011 12:40	03/18/2011 09:30
1103087-07	TRIPBLANK	Water	03/15/2011 00:00	03/18/2011 09:30

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

DOCUMENT ILM05.4

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field and analytical samples, reanalyses, blanks, spikes, duplicates, and laboratory control samples. The sample data package consists of the following:

A. Cover Documentation

B. Sample Data

LAB CODE : LIBRTY

CONTRACT # : ILM05.4

CASE # : _____

SDG # : 1103087

A. Cover Documentation

1. Cover Page

2. SDG Narrative

3. Sample Log-In Sheet
   (Form DC-1)

4. Full Inorganic Complete
   SDG File (CSF) Inventory
   Sheet
   (Form DC-2)

5. Sample Traffic Reports/
   Chain-Of-Custody Records

1. Cover Page

Inorganic Analyses Data Package

The Cover Page includes laboratory information, the Case and SDG numbers, Non-Routine Analytical Service (NRAS) number (if appropriate), the EPA sample numbers in alphanumeric order showing the EPA sample numbers cross-referenced with Lab ID numbers, and completion of the questions on the use of background and interelement correction for the samples.

US EPA - CLP

COVER PAGE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No: NRAS No.: SDG No: 1103087

SOW No.: ILM05.4

EPA Sample No.	Lab Sample ID
MW-12	1103087-05
MW-17	1103087-06
MW-2	1103087-02
MW-3	1103087-01
MW-3D	1032004-DUP1
MW-3S	1032004-MS1
MW-8	1103087-03
MW-9	1103087-04

		ICP-AES	ICP-MS
Were ICP-AES and ICP-MS interelement corrections applied?	(Yes/No)	YES	NO
Were ICP-AES and ICP-MS background corrections applied?	(Yes/No)	YES	NO
If yes, were raw data generated before application of background corrections?	(Yes/No)	NO	NO

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette (or via an alternate means of electronic transmission, if approved in advance by USEPA) has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: for Name: Susan W Bass

Date: 03/04/11 Title: Senior Chemist

2. SDG Narrative

The SDG Narrative contains laboratory information, the Case and SDG numbers, contract number, and detailed documentation of any QC, sample, shipment, and/or analytical problems encountered in processing the samples. This will include any technical and administrative problems encountered and the resolution or corrective actions taken. The SDG Narrative will also document the alternative means of determining the cooler temperature when a cooler's temperature indicator bottle is absent. The SDG Narrative also provides equations or curves and utilizes raw data from the SDG being reported to demonstrate how sample results are obtained from raw instrument output. The SDG Narrative also includes a discussion of any flexibility Statement of Work (SOW) modification, including attaching a copy of the USEPA approved modification form to the SDG Narrative. Finally, the SDG Narrative will identify and explain any differences between results being provided in the data package and those provided previously as Preliminary Results.

CompuChem
a Division of Liberty Analytical Corp.
501 Madison Avenue Cary, NC 27513

SDG NARRATIVE
SDG # 1103087
CONTRACT # ILM05.4

The indicated Sample Delivery Group (SDG) consisting of six (6) water samples was received on March 18, 2011. The samples were intact and in good condition with Chain of Custody (COC) Records. The samples temperature was 2.7 degrees Celsius.

SAMPLE IDs:

The following customer IDs are associated with this SDG:

MW-12, MW-17, MW-2, MW-3, MW-8, MW-9

The samples were prepared and analyzed, in accordance with EPA - CLP Statement of Work (SOW) document ILM05.4 for the requested ICP-AES metals.

EQUATIONS FOR WATER SAMPLE CALCULATIONS:

Client sample MW-3 used for illustration.

Equation for obtaining metals sample results in µg/L as presented on FORM I data sheets from ICP instrument acquired results in µg/L (ppb).

$$\frac{C \times F}{I}$$

Where

C = concentration (µg/L)

F = final volume in liters after sample preparation

I = initial volume in liters

Example: **Iron** result µg/L

$$\frac{3036.42\ \mu g/L\ (C) \times 0.05\ L\ (F)}{0.05\ L\ (I)} = 3036\ \mu g/L \text{ reported as } 3040\ \mu g/L$$

INSTRUMENTAL QUALITY CONTROL:

All calibration verification solutions (ICV, CCV, & CRI), blanks (ICB, & CCB), and interference check samples (ICSA & ICSAB) associated with this data were confirmed to be within EPA CLP allowable limits.

SAMPLE PREPARATION QUALITY CONTROL:

The sample preparation procedure verifications (LCSW & PBW) were found to be within acceptable ranges and all field samples were prepared and analyzed within the contract specified holding times.

MATRIX RELATED QUALITY CONTROL:

The ICP sample matrix spike, CCN = 1032004-MS1 (MW-3S) was found to be inside CLP control limits.

The ICP sample matrix duplicate, CCN = 1032004-DUP1 (MW-3D) was found to be inside CLP control limits.

A five-fold serial dilution of sample, CCN = 1103087-01 (MW-3L) was performed in accordance with CLP requirements for ICP analysis.

The adjusted sample concentrations were inside CLP control limits.

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 and in the computer-readable data submitted on CD has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice.

for

Susan W. Bass
Senior Chemist
March 24, 2011

3. Sample Log-In Sheet (Form DC-1)

4. Full Inorganic Complete SDG File (CSF)Inventory Sheet

(Form DC-2)

5. Sample Traffic Reports/ Chain-Of-Custody Records

CHAIN OF CUSTODY RECORD

11

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

WB 3/7/11

Client:	Watauga County, NC	**Consultant:**	Draper Aden Associates	**Sample Site:**	Watauga County Landfill
Attn:	Mr. J.V. Potter	**Attn:**	Janet C. Frazier	**Location:**	Watauga County, NC
Address:	842 West King Street?/Courthouse, Suite 1 Boone, NC 28607	**Address:**	2206 South Main Street Blacksburg, Virginia 24060	**Event:**	March 2011 Semiannual Assess. Monitoring Event
Phone:	(828) 264-5305	**Phone:**	(540) 552-0444	**DAA JN:**	6520-39
Fax:	0	**Fax:**	(540) 552-0291	**Lab JN:**	
Fax:	0				

Project Specific (PS) or Batch (B) QC:
Sample Collection for Project Complete? YES
Carrier:
Tracking Number:

Box 1: Matrix
SW Surface Water — T Trip Blank
GW Groundwater — E Equipment Blank
L Leachate — P Product
S Soil — O Other

Box 2: Preservative
A HCL — E NaOH
B HNO_3 — F ZnAc
C H_2SO_4 — G Other (Specify)
D $Na_2S_2O_3$ — H None

Box 3: Filtered/Unfiltered
F Filtered
U Unfiltered

Box 4: Sample Type
G Grab
C Composite

Box 5: Sample Container Type
P Plastic — V VOA
AG Amber Glass — CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on ice: YES

GENERAL NOTES:
1. Level 4 deliverables with EDD and PDF.
2. Report all calibrated target analytes, same as previous events.
3. Note that project required quantitation and deteciton limits are same as previous events.

Sample ID	Date: 2011	Time	Box 1: Matrix	Number of Bottles	8260B JPS 3.8.2011 25ml purge	CLP METALS ILMO 5.4	metals pH						
Box 4 - Sample Type					G	G							
Box 3 - Filtered/Unfiltered					U	U							
Required pH of Sample					<2	<2							
Box 2 - Preservative					A	B							
Box 5 - Sample Container Type					3-40ml V	1-500ml P							
MW-2	3/16	15:00	GW	4	X	X	<2			1103087-02			Analyze and report all diluted and undiluted results.
MW-3	3/17	11:45	GW	4	X	X	<2			1103087-01			
MW-3ms	3/17	11:45	GW	4	X	X	<2			-01			
MW-3msd	3/17	11:45	GW	4	X	X	<2			-01			
MW-8	3/17	12:15	GW	4	X	X	<2			1103087-03			
MW-9	3/16	12:30	GW	4	X	X	<2			-04			
MW-12	3/17	13:00	GW	4	X	X	<2			-05			
MW-17	3/17	12:40	GW	4	X	X	<2			-06			
Trip Blank	3/15		T	3	X					1103087-07			~~VHBUXV~~ 3/18/11

Clients Special Instructions: Level 4 w/ EDD & PDF

Received by lab in Good Condition ✓ Yes ____ No Custody Seal Intact ✓ Yes ____ No Temperature upon arrival 2.7°C Received on Ice ✓ Yes ____ No
Describe problems, if any: FRGW 3W0015

Sampler Name (Print): Chris Branscome	Date: 3/15/11	#1 Relinquished by (Signature): Chris Branscome	Date: 3/17/11	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:	
Sampler Signature: Chris Branscome	Time: 1700 CBB 1700	Company Name: Draper Aden Assoc.	Time: 17:00	Company Name:	Time:		
Sampler Name (Print): Dale Slaughter	Date: 3/15/11	#1 Received by (Signature): Joan Puedee	Date: 3/18/11	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG	
Sampler Signature: Dale Slaughter	Time: 1700	Company Name: CompuChem	Time: 930	Company Name:	Time:		

WB 3/7/11
WB 3/7/11

ANALYTICAL METHOD: 8260B/5030B – 25mL Purge
TYPE METHOD: GCMS
CLASS: VOLATILE

Run For All Monitoring Wells & Trip Blank:

No.	ANALYTE	CAS RN
1.	Acetone	67-64-1
2.	Acetonitrile (methyl cyanide)	75-05-8
3.	Acrolein	107-02-8
4.	Acrylonitrile	107-13-1
5.	Allyl chloride	107-05-1
6.	Benzene	71-43-2
7.	Bromochloromethane	74-97-5
8.	Bromodichloromethane	75-27-4
9.	Bromoform (tribromomethane)	75-25-2
10.	Bromomethane; (Methyl bromide)	74-83-9
11.	2-butanone (methyl ethyl ketone - MEK)	78-93-3
12.	Carbon disulfide	75-15-0
13.	Carbon tetrachloride	56-23-5
14.	Chlorobenzene	108-90-7
15.	Chloroethane (ethyl chloride)	75-00-3
16.	Chloroform (trichloromethane)	67-66-3
17.	chloromethane ; (Methyl chloride)	74-87-3
18.	Chloroprene	126-99-8
19.	Dibromochloromethane	124-48-1
20.	dibromomethane, (Methylene bromide)	74-95-3
21.	1,2-dichlorobenzene; (o-dichlorobenzene)	95-50-1
22.	1,3-dichlorobenzene, (m-dichlorobenzene)	541-73-1
23.	1,4-dichlorobenzene; (p-dichlorobenzene)	106-46-7
24.	trans-1,4-dichloro-2-butene	110-57-6
25.	Dichlorodifluoromethane	75-71-8
26.	1,1-dichloroethane	75-34-3
27.	1,2-dichloroethane	107-06-2
28.	1,1-dichloroethene (vinylidene chloride)	75-35-4
29.	cis-1,2-dichloroethene	156-59-2
30.	trans-1,2-dichloroethene	156-60-5
31.	1,2-dichloropropane	78-87-5
32.	1,3-dichloropropane	142-28-9
33.	2,2-dichloropropane	594-20-7
34.	1,1-dichloropropene	563-58-6
35.	cis-1,3-dichloropropene	10061-01-5
36.	trans-1,3-dichloropropene	10061-02-6
37.	Ethylbenzene	100-41-4
38.	Ethyl methacrylate	97-63-2
39.	Hexachlorobutadiene	87-68-3
40.	2-hexanone (methyl butyl ketone - MBK)	591-78-6
41.	iodomethane; (Methyl iodide)	74-88-4
42.	Isobutyl alcohol	78-83-1
43.	Methacrylonitrile	126-98-7
44.	Methyl methacrylate	80-62-6
45.	4-methyl-2-pentanone (methyl isobutyl ketone)	108-10-1
46.	Naphthalene	91-20-3
47.	Propionitrile	107-12-0
48.	Styrene (phenylethene)	100-42-5

49. 1,1,1,2-tetrachloroethane	630-20-6
50. 1,1,2,2-tetrachloroethane	79-34-5
51. Tetrachloroethene	127-18-4
52. Toluene (methyl benzene)	108-88-3
53. 1,2,4-trichlorobenzene	120-82-1
54. 1,1,1-trichloroethane (methyl chloroform)	71-55-6
55. 1,1,2-trichloroethane	79-00-5
56. Trichloroethene	79-01-6
57. Trichlorofluoromethane (CFC-11)	75-69-4
58. 1,2,3-trichloropropane	96-18-4
59. Vinyl acetate	108-05-4
60. Xylenes (total)	1330-20-7

ADDITIONAL ANALYTES FOR 8260B

61	methylene chloride	75-09-2
62	Vinyl chloride	75-01-4

ANALYTICAL METHOD: CLP ILMO 5.4
TYPE METHOD: CLP
CLASS: TOTAL METALS

Run for all Monitoring Wells

No.	PARAMETER	METHOD	CAS RN
1	Barium	6010	7440-39-3
2	Iron	6010	7439-89-6
3	Chromium	6010	7440-47-3
4	Cobalt	6020	7440-48-4
5	Nickel	6010	7440-02-0
6	Vanadium	6010	7440-62-2

6/6

WORK ORDER

Printed: 3/24/2011 7:44:39AM

1103087

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1103087** **CASE:**	**Status:**	**Received**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due:	04/07/2011 00:00 (20 day TAT)		
Received By:	Cathy Dover	Date Received:	03/18/2011 09:30
Logged In By:	Cathy Dover	Date Logged In:	03/18/2011 15:18

J & B Flags?: **YES** Metals ND to? **MDL**	TICS?: **EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**

USE 1103087-01 (MW-3) FOR QC*VOC 8260B 25 ML LIST=PPS897O.SUB*ILM05.4 MTL=Ba,Fe,Cr,Co,Ni & V

Analysis	Due	TAT	Expires	Received	Comments
1103087-01 MW-3 [Water] Sampled 03/17/2011 11:45 Eastern					**USE FOR QC**
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 11:45	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 11:45	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 11:45	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-02 MW-2 [Water] Sampled 03/16/2011 15:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/12/2011 15:00	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/12/2011 15:00	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/30/2011 15:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)

WORK ORDER

Printed: 3/24/2011 7:44:39AM

1103087

COMPUCHEM

Client:	DRAPER	Project Manager:	Cathy Dover
Project:	WATAUGA COUNTY LANDFILL 6520-39	Project Number:	WATAUGA COUNTY LANDFILL 6520-39
SDG:	1103087 CASE:	Status:	Received

Analysis	Due	TAT	Expires		Comments
1103087-03 MW-8 [Water] Sampled 03/17/2011 12:15 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 12:15	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 12:15	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 12:15	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-04 MW-9 [Water] Sampled 03/16/2011 12:30 Eastern					
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/12/2011 12:30	03/18/2011 09:30	
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/12/2011 12:30	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/30/2011 12:30	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-05 MW-12 [Water] Sampled 03/17/2011 13:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 13:00	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 13:00	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 13:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-06 MW-17 [Water] Sampled 03/17/2011 12:40 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 12:40	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 12:40	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 12:40	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-07 TRIPBLANK [Water] Sampled 03/15/2011 00:00 Eastern					
VOA-8260B 25ML	04/07/2011 16:00	20	03/29/2011 00:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)

INTERNAL DIGESTION COC

1032004

COMPUCHEM

Printed: 3/20/2011 4:16:17PM

Matrix: Water **Prepared using: METALS - HW1**

Lab Number	Client ID	Sample Type	
1032004-BLK1	PBW	Blank	
1032004-BS1	LCSW	LCS	
1032004-DUP1	MW-3D	Duplicate	
1032004-MS1	MW-3S	Matrix Spike	
1103087-01	MW-3	Sample	
1103087-02	MW-2	Sample	
1103087-03	MW-8	Sample	
1103087-04	MW-9	Sample	
1103087-05	MW-12	Sample	
1103087-06	MW-17	Sample	

D. Dickens	3-21-11 / 1538	ICP Stg.	3-21-11 / 1538
Relinquished By	Date	Received By	Date
ICP Sts.	03-21-11 1600	[illegible]	03-21-11 1600
Relinquished By	Date	Received By	Date
[illegible]	03-23-11 1730	ICP Sts.	03-23-11 1730
Relinquished By	Date	Received By	Date
Relinquished By	Date	Received By	Date

JRC
032411

Metals Internal Chain of Custody Sheet

Batch: 1032004 **Status:** Batched **Analysis**: ILM05.4 - ICP/AES (TM)

Lab Id	Client_Id	Received	Container	Extraction	Preservative	Matrix	Due Date	Cust Date
1103087-01 J	MW-3	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	
1103087-02 D	MW-2	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	
1103087-03 D	MW-8	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	
1103087-04 D	MW-9	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	
1103087-05 D	MW-12	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	
1103087-06 D	MW-17	03/18/11	3l_500mL Plastic, cool, HNO3	HW1	Add HNO3 to pH<2	Water	4/7/2011 4	

Ambient Stg.	3-21-11 / 1010	D. Dickens	3-21-11 / 1010
Relinquished By	Date/Time	Received By	Date/Time
D. Dickens	3-21-11 / 1130	Ambient Stg.	3-21-11 / 1130
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received By	Date/Time

B. Sample Data

1. Results
2. Quality Control Data
3. Raw Data
4. Digestion and Distillation Logs

LAB CODE : LIBRTY

CONTRACT # : ILM05.4

CASE # : _____

SDG # : 1103087

1. Results

Sample results shall be arranged in packets with the Inorganic Analysis Data Sheet [Form IA – IN and Form IB – IN]. These sample packets shall be placed in increasing alphanumeric EPA sample number order, considering both letters and numbers, and shall include all the samples in the SDG.

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-12

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-05

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	303			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	7.4	J		P
7439-89-6	Iron	95.9	J		P
7440-02-0	Nickel	3.7	J		P
7440-62-2	Vanadium	0.85	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-17

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-06

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	355			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	3.3	J		P
7439-89-6	Iron	249			P
7440-02-0	Nickel	2.2	J		P
7440-62-2	Vanadium	0.96	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-2

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-02

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	214			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	50.0	U		P
7439-89-6	Iron	100	U		P
7440-02-0	Nickel	40.0	U		P
7440-62-2	Vanadium	1.4	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-3

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-01

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	156	J		P
7440-47-3	Chromium	7.4	J		P
7440-48-4	Cobalt	1.1	J		P
7439-89-6	Iron	3040			P
7440-02-0	Nickel	6.5	J		P
7440-62-2	Vanadium	5.9	J		P

Color Before: COLORLESS Clarity Before: CLOUDY Texture:

Color After: COLORLESS Clarity After: CLOUDY Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-8

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-03

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	48.5	J		P
7440-47-3	Chromium	8.7	J		P
7440-48-4	Cobalt	2.3	J		P
7439-89-6	Iron	3200			P
7440-02-0	Nickel	5.8	J		P
7440-62-2	Vanadium	7.3	J		P

Color Before: BROWN Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

US EPA - CLP

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

MW-9

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Lab Sample ID: 1103087-04

Level (low/med): LOW Date Received: 03/18/2011

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-39-3	Barium	612			P
7440-47-3	Chromium	10.0	U		P
7440-48-4	Cobalt	8.2	J		P
7439-89-6	Iron	545			P
7440-02-0	Nickel	3.8	J		P
7440-62-2	Vanadium	1.0	J		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

2. Quality Control (QC) Data

a. Initial and Continuing Calibration Verification
[Form IIA - IN]

b. CRQL Check Standard
[Form IIB - IN]

c. Blanks
[Form III - IN]

d. ICP-AES Interference Check Sample
[Form IVA - IN]

e. Matrix Spike Sample Recovery
[Form VA - IN]

f. Post Digest Spike Sample Recovery
[Form VB - IN]

g. Duplicates
[Form VI - IN]

h. Laboratory Control Sample
[Form VII - IN]

i. ICP-AES Serial Dilutions
[Form VIII - IN]

j. Method Detection Limits (Annually)
[Form IX - IN]

k. ICP-AES Interelement Correction Factors (Quarterly)
[Form XA - IN]

l. ICP-AES Interelement Correction Factors (Quarterly)
[Form XB – IN]

m. ICP-AES Linear Ranges (Quarterly)
[Form XI – IN]

n. Preparation Log
[Form XII - IN]

o. Analysis Run Log
[Form XIII - IN]

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium	497.0	496.55	100	1000.0	961.13	96	949.18	95	P
Chromium	490.0	498.56	102	1000.0	966.16	97	953.69	95	P
Cobalt	499.0	500.94	100	1000.0	950.45	95	937.45	94	P
Iron	5082.0	5024.05	99	25000.0	24034.13	96	23717.52	95	P
Nickel	503.0	502.89	100	1000.0	960.59	96	949.85	95	P
Vanadium	501.0	503.38	100	1000.0	971.44	97	957.43	96	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	956.55	96	951.18	95	P
Chromium				1000.0	964.89	96	954.86	95	P
Cobalt				1000.0	945.85	95	937.18	94	P
Iron				25000.0	24053.98	96	23743.24	95	P
Nickel				1000.0	960.18	96	950.82	95	P
Vanadium				1000.0	966.87	97	957.85	96	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	952.34	95	979.94	98	P
Chromium				1000.0	955.43	96	980.42	98	P
Cobalt				1000.0	937.65	94	962.71	96	P
Iron				25000.0	23831.72	95	24390.40	98	P
Nickel				1000.0	951.24	95	976.19	98	P
Vanadium				1000.0	958.85	96	983.61	98	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	988.64	99	972.11	97	P
Chromium				1000.0	989.88	99	973.83	97	P
Cobalt				1000.0	972.41	97	957.63	96	P
Iron				25000.0	24705.99	99	24193.53	97	P
Nickel				1000.0	985.31	99	967.13	97	P
Vanadium				1000.0	994.17	99	978.30	98	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	973.56	97	1009.25	101	P
Chromium				1000.0	976.62	98	1010.62	101	P
Cobalt				1000.0	959.72	96	994.08	99	P
Iron				25000.0	24320.93	97	25072.53	100	P
Nickel				1000.0	969.79	97	1002.08	100	P
Vanadium				1000.0	980.69	98	1015.57	102	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2A-IN

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Initial Calibration Verification Source: EPA-0307

Continuing Calibration Verification Source: HP01010910/1

Concentration Units: ug/L

	Initial Calibration Verification			Continuing Calibration Verification					
Analyte	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Barium				1000.0	998.17	100			P
Chromium				1000.0	1000.86	100			P
Cobalt				1000.0	985.40	99			P
Iron				25000.0	24979.22	100			P
Nickel				1000.0	995.39	100			P
Vanadium				1000.0	1005.01	101			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG No.: 1103087

CRQL Check Standard Source: HP1005206

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0	10.54	105	10.56	106
Cobalt	50.0	52.24	104	51.92	104
Nickel	40.0	42.08	105	41.99	105
Vanadium	50.0	52.21	104	51.69	103

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG No.: 1103087

CRQL Check Standard Source: HP1005206

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.59	106
Cobalt	50.0			52.09	104
Nickel	40.0			42.18	105
Vanadium	50.0			51.95	104

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG No.: 1103087

CRQL Check Standard Source: HP1005206

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.19	102
Cobalt	50.0			52.39	105
Nickel	40.0			41.92	105
Vanadium	50.0			52.32	105

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG No.: 1103087

CRQL Check Standard Source: HP1005206

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.35	104
Cobalt	50.0			52.77	106
Nickel	40.0			42.19	105
Vanadium	50.0			52.44	105

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

2B-IN

CRQL CHECK STANDARD

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG No.: 1103087

CRQL Check Standard Source: HP1005206

Concentration Units: ug/L

Analyte	CRQL Check Standard				
	Initial			Final	
	True	Found*	%R (1)	Found*	%R (1)
Chromium	10.0			10.54	105
Cobalt	50.0			52.85	106
Nickel	40.0			42.41	106
Vanadium	50.0			52.54	105

(1) Control Limits: 70-130 with the following exceptions:
ICP-AES - Antimony, Lead, and Thallium: 50-150
ICP-MS - Cobalt, Manganese, and Zinc: 50-150

* if applicable, enter the concentration qualifier "J" or "U" after the concentration in these columns (e.g., 0.20U for Mercury)

US EPA - CLP

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	M
Barium	-0.382	J	-0.405	J	-0.438	J	-0.336	J	200.000	U	P
Chromium	10.000	U	10.000	U	10.000	U	10.000	U	10.000	U	P
Cobalt	0.691	J	50.000	U	0.641	J	0.409	J	50.000	U	P
Iron	100.000	U	100.000	U	100.000	U	100.000	U	100.000	U	P
Nickel	40.000	U	40.000	U	40.000	U	40.000	U	40.000	U	P
Vanadium	50.000	U	50.000	U	50.000	U	50.000	U	50.000	U	P

US EPA - CLP

3-IN
BLANKS

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Barium			-0.401	J	-0.348	J	-0.439	J			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			50.000	U	0.535	J	0.804	J			P
Iron			100.000	U	100.000	U	100.000	U			P
Nickel			40.000	U	0.573	J	40.000	U			P
Vanadium			50.000	U	50.000	U	0.439	J			P

US EPA - CLP

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Barium			-0.317	J	-0.292	J	-0.238	J			P
Chromium			10.000	U	10.000	U	10.000	U			P
Cobalt			0.632	J	0.557	J	0.487	J			P
Iron			100.000	U	100.000	U	10.816	J			P
Nickel			40.000	U	0.673	J	0.771	J			P
Vanadium			50.000	U	50.000	U	50.000	U			P

US EPA - CLP

3-IN
BLANKS

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calibration Blank(ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Barium			-0.440	J	-0.279	J					P
Chromium			10.000	U	0.747	J					P
Cobalt			0.449	J	0.880	J					P
Iron			100.000	U	100.000	U					P
Nickel			40.000	U	0.594	J					P
Vanadium			50.000	U	0.479	J					P

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495	2.4		531	107	2.4	120	522	105
Chromium	43	511	46.0		562	110	46.0	107	553	108
Cobalt	4	461	5.7		519	113	5.6	140	508	110
Iron	95600	94800	99900		100000	105	99500	104	98600	104
Nickel	21	984	22.1		1060	108	22.0	105	1040	106
Vanadium	0	494	0.75		527	107	0.87		516	104

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.4	120	509	103
Chromium	43	511					45.5	106	538	105
Cobalt	4	461					5.5	138	495	107
Iron	95600	94800					99900	104	95900	101
Nickel	21	984					21.9	104	1020	104
Vanadium	0	494					0.51		503	102

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.5	125	526	106
Chromium	43	511					46.0	107	556	109
Cobalt	4	461					5.6	140	513	111
Iron	95600	94800					99800	104	99200	105
Nickel	21	984					22.1	105	1050	107
Vanadium	0	494					0.77		520	105

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.4	120	529	107
Chromium	43	511					45.8	107	559	109
Cobalt	4	461					5.5	138	515	112
Iron	95600	94800					100000	105	99500	105
Nickel	21	984					21.9	104	1050	107
Vanadium	0	494					0.45		523	106

US EPA - CLP

4A-IN

ICP-AES INTERFERENCE CHECK SAMPLE

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

ICP-AES Instrument ID: P3 ICS Source: EPA-1206-203

Concentration Units: ug/L

Analyte	True		Initial Found				Final Found			
	Sol.A	Sol AB	Sol.A	%R	Sol AB	%R	Sol.A	%R	Sol.AB	%R
Barium	2	495					2.4	120	532	107
Chromium	43	511					46.1	107	562	110
Cobalt	4	461					5.6	140	518	112
Iron	95600	94800					101000	106	100000	105
Nickel	21	984					22.2	106	1060	108
Vanadium	0	494					0.51		526	106

US EPA - CLP

5A-IN

MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

MW-3S

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Barium	75 - 125	2121.1080		155.5666	J	2000.00	98		P
Chromium	75 - 125	206.3668		7.4275	J	200.00	99		P
Cobalt	75 - 125	496.0396		1.1494	J	500.00	99		P
Iron	75 - 125	4276.8550		3036.4200		1000.00	124		P
Nickel	75 - 125	502.9348		6.4817	J	500.00	99		P
Vanadium	75 - 125	502.7082		5.9382	J	500.00	99		P

Comments:

US EPA - CLP

6-IN

DUPLICATES

EPA SAMPLE NO.

MW-3D

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units: (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Barium		155.5666	J	154.7253	J	1		P
Chromium		7.4275	J	7.3386	J	1		P
Cobalt		1.1494	J	1.0547	J	9		P
Iron		3036.4200		3024.0300		0		P
Nickel		6.4817	J	6.5364	J	1		P
Vanadium		5.9382	J	5.7804	J	3		P

US EPA - CLP

7 - IN

LABORATORY CONTROL SAMPLE

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No: SDG NO.: 1103087

Solid LCS Source:

Aqueous LCS Source: EPA-0307

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Barium	502.0	502.89	100						
Chromium	490.0	499.42	102						
Cobalt	496.0	501.32	101						
Iron	5107.0	5037.13	99						
Nickel	492.0	502.93	102						
Vanadium	501.0	502.91	100						

US EPA - CLP

8-IN

ICP-AES and ICP-MS SERIAL DILUTIONS

EPA SAMPLE NO.

MW-3L

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Barium	155.57	J	156.10	J	0		P
Chromium	7.43	J	50.00	U	100		P
Cobalt	1.15	J	250.00	U	100		P
Iron	3036.42		3215.28		6		P
Nickel	6.48	J	200.00	U	100		P
Vanadium	5.94	J	7.74	J	30		P

US EPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

Instrument Type: P Instrument ID: P3 Date: 03/22/2011

Preparation Method: NP1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Barium	493.41	200	0.16
Chromium	267.72	10	0.62
Cobalt	228.62	50	0.35
Iron	271.44	100	10.8
Nickel	231.60	40	0.54
Vanadium	292.40	50	0.42

Comments: _____

US EPA - CLP

9-IN
METHOD DETECTION LIMITS (ANNUALLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

Instrument Type: P Instrument ID: P3 Date: 01/15/2010

Preparation Method: HW1

Concentration Units (ug/L or mg/kg): UG/L

Analyte	Wave-Length /Mass	CRQL	MDL
Barium	493.41	200	1.30
Chromium	267.72	10	3.10
Cobalt	228.62	50	0.98
Iron	271.44	100	26.0
Nickel	231.60	40	1.90
Vanadium	292.40	50	0.75

Comments: _____

US EPA - CLP

10A-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 Date: 02/01/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003140
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0012000	0.0000000	0.0000000	0.0010790	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	-0.0001080	0.0000000
Lead	220.35	-0.0003320	0.0000000	0.0000000	0.0000000	0.0001800
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	0.0000000	-0.0002660	0.0000000	-0.0024360
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	-0.0000940	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 Date: 02/01/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	B	Ba	Be	Cd
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	-0.0002530	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0389360	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	-0.0002870
Cobalt	228.62	0.0000000	0.0000000	0.0002680	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0005890	-0.0001640	0.0000000	-0.0008310	-0.0002600
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 Date: 02/01/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Co	Cr	K	Mn	Mo
Aluminum	308.22	-0.0047260	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0068790	0.0000000	0.0000000	-0.0073110
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0100450	0.0000000	0.0013040	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0793190	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0000000	0.0000000	0.0000000	-0.0006690
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	-0.0005030	-0.0002780	0.0000000	0.0000000	-0.0006920
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0024820	0.0003020	0.0000000	0.0010910	-0.0077170
Vanadium	292.40	0.0000000	-0.0005550	0.0000000	0.0000000	-0.0062450
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 Date: 02/01/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Na	Ni	Pb	Sb	Se
Aluminum	308.22	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.83	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.04	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.93	0.0017610	0.0000000	-0.0177790	0.0000000	0.0000000
Chromium	267.72	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.62	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.75	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.35	0.0000000	0.0001800	0.0000000	-0.0003470	0.0000000
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.61	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.02	0.0000000	-0.0001290	-0.0002370	-0.0010580	0.0000000
Silver	328.07	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.87	0.0000000	0.0036920	0.0000000	0.0000000	0.0000000

Comments:

US EPA - CLP

10B-IN

ICP-AES INTERELEMENT CORRECTION FACTORS (QUARTERLY)

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

ICP-AES Instrument ID: P3 Date: 02/01/2011

Analyte	Wave-length (nm)	Interelement Correction Factors for: Sn	Ti	Tl	V	
Aluminum	308.22	0.0000000	0.0000000	0.0000000	-0.0283040	
Antimony	206.83	0.0007520	0.0001070	0.0000000	0.0000920	
Arsenic	189.04	0.0000000	0.0000000	0.0000000	0.0000000	
Barium	493.41	0.0000000	0.0000000	0.0000000	0.0000000	
Beryllium	313.04	0.0000000	-0.0009700	0.0000000	0.0005000	
Cadmium	226.50	0.0000000	0.0000000	0.0000000	0.0000000	
Calcium	317.93	0.0388820	0.0000000	0.0000000	0.0000000	
Chromium	267.72	0.0000000	0.0000000	0.0000000	-0.0005520	
Cobalt	228.62	0.0000000	0.0019150	0.0000000	0.0000000	
Copper	324.75	0.0000000	0.0000000	0.0003200	-0.0003340	
Iron	271.44	0.0000000	0.0000000	0.0000000	0.0102510	
Lead	220.35	0.0000000	-0.0003100	0.0000000	-0.0002070	
Magnesium	279.08	0.0000000	0.0000000	0.0000000	0.0000000	
Manganese	257.61	0.0000000	0.0000000	0.0000000	-0.0002130	
Nickel	231.60	0.0000000	0.0000000	0.0000000	0.0000000	
Potassium	766.49	0.0000000	0.0000000	0.0000000	0.0000000	
Selenium	196.02	-0.0009370	-0.0007990	-0.0001420	-0.0003030	
Silver	328.07	0.0000000	0.0000000	0.0000000	-0.0034790	
Sodium	330.23	0.0000000	0.0000000	0.0000000	0.0000000	
Thallium	190.86	0.0000000	0.0000000	0.0000000	0.0015740	
Vanadium	292.40	0.0000000	0.0000000	0.0000000	0.0000000	
Zinc	213.87	0.0000000	0.0000000	0.0000000	0.0000000	

Comments:

US EPA - CLP

11-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: COMPUCHEM Contract: _____

Lab Code: LIBRTY Case No.: _____ NRAS No.: _____ SDG NO.: 1103087

ICP Instrument ID: P3 Date: 03/04/2011

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Barium	15.00	50000.0	P
Chromium	15.00	60000.0	P
Cobalt	15.00	50000.0	P
Iron	15.00	700000.0	P
Nickel	15.00	60000.0	P
Vanadium	15.00	50000.0	P

Comments: _____

US EPA - CLP

12-IN

PREPARATION LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG NO.: 1103087

Preparation Method: HW1

EPA Sample No.	Preparation Date	Weight (gram)	Volume (mL)
LCSW	03/21/2011		50
MW-12	03/21/2011		50
MW-17	03/21/2011		50
MW-2	03/21/2011		50
MW-3	03/21/2011		50
MW-3D	03/21/2011		50
MW-3S	03/21/2011		50
MW-8	03/21/2011		50
MW-9	03/21/2011		50
PBW	03/21/2011		50

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1103087

Instrument ID: P3 Analysis Method: P

Start Date: 03/22/2011 End Date: 03/23/2011

EPA Sample NO.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.0	1433				X				X	X		X					X						X		
S	1.0	1440								X								X								
S	1.0	1447																								
S	1.0	1453				X					X		X											X		
S	1.0	1458																								
ICV	1.0	1505				X				X	X		X					X						X		
ICB	1.0	1512				X				X	X		X					X						X		
CRI	1.0	1519								X	X							X						X		
ICSA	1.0	1526				X				X	X		X					X						X		
ICSAB	1.0	1533				X				X	X		X					X						X		
CCV	1.0	1540				X				X	X		X					X						X		
CCB	1.0	1548				X				X	X		X					X						X		
ZZZZZZ	1.0	1603																								
ZZZZZZ	1.0	1610																								
ZZZZZZ	1.0	1617																								
ZZZZZZ	1.0	1624																								
ZZZZZZ	1.0	1631																								
ZZZZZZ	1.0	1638																								
ZZZZZZ	1.0	1645																								
ZZZZZZ	1.0	1652																								
ZZZZZZ	1.0	1659																								
ZZZZZZ	1.0	1706																								
CCV	1.0	1713				X				X	X		X					X						X		
CCB	1.0	1720				X				X	X		X					X						X		
ZZZZZZ	1.0	1727																								
ZZZZZZ	1.0	1734																								
ZZZZZZ	1.0	1741																								
ZZZZZZ	1.0	1748																								
ZZZZZZ	1.0	1755																								
ZZZZZZ	1.0	1802																								
ZZZZZZ	1.0	1809																								
CRI	1.0	1816								X	X							X						X		
ICSA	1.0	1823				X				X	X		X					X						X		
ICSAB	1.0	1830				X				X	X		X					X						X		
CCV	1.0	1837				X				X	X		X					X						X		

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1103087

Instrument ID: P3 Analysis Method: P

Start Date: 03/22/2011 End Date: 03/23/2011

EPA Sample NO.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.0	1845				X				X	X		X					X						X		
ZZZZZZ	1.0	1852																								
ZZZZZZ	1.0	1859																								
ZZZZZZ	1.0	1906																								
ZZZZZZ	1.0	1913																								
ZZZZZZ	1.0	1920																								
ZZZZZZ	5.0	1927																								
ZZZZZZ	1.0	1933																								
ZZZZZZ	1.0	1940																								
ZZZZZZ	1.0	1947																								
ZZZZZZ	1.0	1954																								
CCV	1.0	2002				X				X	X		X					X						X		
CCB	1.0	2009				X				X	X		X					X						X		
ZZZZZZ	1.0	2016																								
ZZZZZZ	1.0	2023																								
ZZZZZZ	1.0	2030																								
ZZZZZZ	1.0	2037																								
ZZZZZZ	1.0	2044																								
ZZZZZZ	1.0	2051																								
ZZZZZZ	1.0	2058																								
CRI	1.0	2105								X	X							X						X		
ICSA	1.0	2112				X				X	X		X					X						X		
ICSAB	1.0	2119				X				X	X		X					X						X		
CCV	1.0	2126				X				X	X		X					X						X		
CCB	1.0	2133				X				X	X		X					X						X		
ZZZZZZ	1.0	2140																								
ZZZZZZ	1.0	2147																								
ZZZZZZ	1.0	2154																								
ZZZZZZ	1.0	2201																								
ZZZZZZ	1.0	2208																								
ZZZZZZ	1.0	2215																								
ZZZZZZ	1.0	2222																								
ZZZZZZ	1.0	2229																								
ZZZZZZ	1.0	2236																								
ZZZZZZ	1.0	2243																								

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1103087

Instrument ID: P3 Analysis Method: P

Start Date: 03/22/2011 End Date: 03/23/2011

EPA Sample NO.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.0	2250				X				X	X		X					X						X		
CCB	1.0	2257				X				X	X		X					X						X		
ZZZZZZ	1.0	2304																								
ZZZZZZ	1.0	2311																								
ZZZZZZ	1.0	2318																								
ZZZZZZ	5.0	2325																								
ZZZZZZ	1.0	2332																								
ZZZZZZ	1.0	2339																								
ZZZZZZ	1.0	2346																								
CRI	1.0	2353								X	X							X						X		
ICSA	1.0	0000				X				X	X		X					X						X		
ICSAB	1.0	0007				X				X	X		X					X						X		
CCV	1.0	0014				X				X	X		X					X						X		
CCB	1.0	0021				X				X	X		X					X						X		
ZZZZZZ	1.0	0028																								
ZZZZZZ	1.0	0035																								
ZZZZZZ	1.0	0042																								
ZZZZZZ	1.0	0049																								
ZZZZZZ	1.0	0056																								
ZZZZZZ	1.0	0103																								
ZZZZZZ	1.0	0110																								
PBW	1.0	0117				X				X	X		X					X						X		
LCSW	1.0	0124				X				X	X		X					X						X		
MW-3	1.0	0131				X				X	X		X					X						X		
CCV	1.0	0138				X				X	X		X					X						X		
CCB	1.0	0145				X				X	X		X					X						X		
MW-3D	1.0	0152				X				X	X		X					X						X		
MW-3S	1.0	0159				X				X	X		X					X						X		
MW-3L	5.0	0206				X				X	X		X					X						X		
ZZZZZZ	1.0	0213																								
MW-2	1.0	0220				X				X	X		X					X						X		
MW-8	1.0	0227				X				X	X		X					X						X		
MW-9	1.0	0234				X				X	X		X					X						X		
CRI	1.0	0241								X	X							X						X		
ICSA	1.0	0248				X				X	X		X					X						X		

US EPA - CLP

13-IN

ANALYSIS RUN LOG

Lab Name: COMPUCHEM Contract:

Lab Code: LIBRTY Case No.: NRAS No.: SDG No.: 1103087

Instrument ID: P3 Analysis Method: P

Start Date: 03/22/2011 End Date: 03/23/2011

EPA Sample NO.	D/F	Time	Analytes																							
			AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICSAB	1.0	0255				X				X	X		X					X						X		
CCV	1.0	0302				X				X	X		X					X						X		
CCB	1.0	0309				X				X	X		X					X						X		
MW-12	1.0	0316				X				X	X		X					X						X		
MW-17	1.0	0323				X				X	X		X					X						X		
ZZZZZZ	1.0	0330																								
ZZZZZZ	1.0	0337																								
ZZZZZZ	1.0	0344																								
ZZZZZZ	1.0	0351																								
ZZZZZZ	1.0	0358																								
ZZZZZZ	5.0	0405																								
ZZZZZZ	1.0	0412																								
ZZZZZZ	1.0	0419																								
CCV	1.0	0426				X				X	X		X					X						X		
CCB	1.0	0433				X				X	X		X					X						X		
ZZZZZZ	1.0	0440																								
ZZZZZZ	1.0	0447																								
ZZZZZZ	1.0	0454																								
ZZZZZZ	1.0	0501																								
ZZZZZZ	1.0	0508																								
ZZZZZZ	1.0	0515																								
ZZZZZZ	1.0	0522																								
CRI	1.0	0530								X	X							X						X		
ICSA	1.0	0537				X				X	X		X					X						X		
ICSAB	1.0	0544				X				X	X		X					X						X		
CCV	1.0	0551				X				X	X		X					X						X		
CCB	1.0	0558				X				X	X		X					X						X		

3. Raw Data

For each reported value, the laboratory shall include in the data package all raw data used to obtain that value. This applies to all required QA/QC measurements, instrument standardization, as well as all sample analysis results. This does not apply to the quarterly verification of method and instrument parameters submitted as a part of each data package.

The order of the raw data in the data package shall be: ICP-AES, Graphite Furnace AA (if used), ICP-MS, mercury, and cyanide (if a target analyte).

Raw data shall be labeled with EPA sample numbers and appropriate codes in order to identify:

- calibration standards, including source and preparation date
- initial and continuing calibration blanks and preparation blanks
- initial and continuing calibration verification standards, interference check samples, serial dilution samples, CRQL check standard, Laboratory Control Sample, and post digestion spike
- diluted and undiluted samples (by EPA sample number) and all weights, dilutions, and volumes used to obtain the reported values
- duplicates
- spikes (indicating standard solutions used, final spike concentrations, and volumes involved).
- instrument used, any instrument adjustments, data corrections or other apparent anomalies on the measurement record, including all data voided or data not used and a brief written explanation
- time and date of each analysis (instrument run logs can be submitted if they contain this information)

Daily Instrument Profile

Nebulizer pressure: 28
Peak position: -0.050804
Peak intensity: 2432.77
Vernier position: 133

Maintenance: None

Printed: 3/23/2011 11:06:06 AM

Method(s) (circle one): ILM05.4 **6010B** **6010C** **Other** _____

Operator(s): JRR **Date/Time** 03-22-11 1433 **to** 03-23-11 1001

↑	Specified element(s) fail(s) high
↓	Specified element(s) fail(s) low
RR	Re-run sample(s) neat
RR #X	Re-run at a #-fold dilution
#X	Sample run at a #-fold dilution (aliquot of sample diluted with acidified water)
L	Matrix = leachate
W	Matrix = water
S	Matrix = solid
B	Matrix = biological tissue

SDG	Matrix	Comments
1103057	W	MDL Study. Complete.
1103066	W	Cd, Cr, Mn, As, Zn Complete.
1103068	W	As, Fe, Mn Complete.
1103082	W	Na only #4, #5 4X #11 3X Complete.
1103086	W	Ca, Fe, K, Mg, Mn, Na #14 = Ca, Fe, K, Mg, Mn, Na, As Complete.
1103087	W	Ba, Fe, Cr, Co, Ni, V Complete.

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
1	CAL1	S0 BLANK	CALIB STD	1	03/22/11	14:33:56		
2	CAL2	S RSTD-1	CALIB STD	1	03/22/11	14:40:56		
3	CAL4	S RSTD-3	CALIB STD	1	03/22/11	14:47:57		
4	CAL3	S RSTD-2	CALIB STD	1	03/22/11	14:53:24		
5	CAL5	S RSTD-4	CALIB STD	1	03/22/11	14:58:51		
6	ICV1	ICV1	ICV	1	03/22/11	15:05:52		
7	ICB1	ICB	ICB	1	03/22/11	15:12:53		(Q) (SE)
8	CRL1	CRI	CRI	1	03/22/11	15:19:58		(Q) (BA)
9	IFA1	ICSA	ICS	1	03/22/11	15:26:58		
10	IFB1	ICSAB	ICS	1	03/22/11	15:33:58		
11	CCV1	CCV	CCV	1	03/22/11	15:40:59		
12	CCB1	CCB	CCB	1	03/22/11	15:48:00		
13	1103057-01RE1	1103057-01RE1	SAMPLE	1	03/22/11	16:03:53	1103057	
14	1103057-02RE1	1103057-02RE1	SAMPLE	1	03/22/11	16:10:54	1103057	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Patricia A. Murphy Date: 3-23-11

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
15	1103057-03RE1	1103057-03RE1	SAMPLE	1	03/22/11	16:17:54	1103057	
16	1103057-04RE1	1103057-04RE1	SAMPLE	1	03/22/11	16:24:54	1103057	
17	1103057-05RE1	1103057-05RE1	SAMPLE	1	03/22/11	16:31:54	1103057	
18	1103057-06RE1	1103057-06RE1	SAMPLE	1	03/22/11	16:38:54	1103057	
19	1103057-07RE1	1103057-07RE1	SAMPLE	1	03/22/11	16:45:54	1103057	
20	1103057-08RE1	1103057-08RE1	SAMPLE	1	03/22/11	16:52:54	1103057	
21	1103057-01RE2	1103057-01RE2	SAMPLE	1	03/22/11	16:59:53	1103057	
22	1103057-02RE2	1103057-02RE2	SAMPLE	1	03/22/11	17:06:53	1103057	
23	CCV2	CCV	CCV	1	03/22/11	17:13:54		
24	CCB2	CCB	CCB	1	03/22/11	17:20:55		
25	1103057-03RE2	1103057-03RE2	SAMPLE	1	03/22/11	17:27:56	1103057	
26	1103057-04RE2	1103057-04RE2	SAMPLE	1	03/22/11	17:34:56	1103057	
27	1103057-05RE2	1103057-05RE2	SAMPLE	1	03/22/11	17:41:56	1103057	
28	1103057-06RE2	1103057-06RE2	SAMPLE	1	03/22/11	17:48:56	1103057	
29	1103057-07RE2	1103057-07RE2	SAMPLE	1	03/22/11	17:55:56	1103057	
30	1103057-08RE2	1103057-08RE2	SAMPLE	1	03/22/11	18:02:56	1103057	
31	IBL1	IBL	IBL	1	03/22/11	18:09:57		
32	CRL2	CRI	CRI	1	03/22/11	18:16:56		(Q) (BA)
33	IFA2	ICSA	ICS	1	03/22/11	18:23:57		
34	IFB2	ICSAB	ICS	1	03/22/11	18:30:57		
35	CCV3	CCV	CCV	1	03/22/11	18:37:58		
36	CCB3	CCB	CCB	1	03/22/11	18:45:00		
37	1032003-BLK1	PBW	PBW	1	03/22/11	18:52:00	1103086	
38	1032003-BS1	LCSW	LCS	1	03/22/11	18:59:00	1103086	(L) (B)
39	1103086-12	CMW-3	SAMPLE	1	03/22/11	19:06:00	1103086	
40	1032003-DUP1	CMW-3D	SAMPLE	1	03/22/11	19:13:00	1103086	
41	1032003-MS1	CMW-3S	SAMPLE	1	03/22/11	19:20:00	1103086	
42	SRD1	CMW-3L	SAMPLE	5	03/22/11	19:27:00	1103086	
43	1032003-PS1	CMW-3A	SAMPLE	1	03/22/11	19:33:59	1103086	
44	1103086-01	PW-2	SAMPLE	1	03/22/11	19:40:59	1103086	
45	1103086-02	MW-C1	SAMPLE	1	03/22/11	19:47:59	1103086	
46	1103086-03	CMW-5R	SAMPLE	1	03/22/11	19:54:59	1103086	

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Reviewed By: Patricia A Murphy Date: 3-23-11

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
47	CCV4	CCV	CCV	1	03/22/11	20:02:00		
48	CCB4	CCB	CCB	1	03/22/11	20:09:02		
49	1103086-04	PW-1	SAMPLE	1	03/22/11	20:16:02	1103086	
50	1103086-05	MW-C5	SAMPLE	1	03/22/11	20:23:03	1103086	
51	1103086-06	DUP-1	SAMPLE	1	03/22/11	20:30:03	1103086	
52	1103086-07	MW-C2B	SAMPLE	1	03/22/11	20:37:04	1103086	
53	1103086-08	MW-C6	SAMPLE	1	03/22/11	20:44:04	1103086	
54	1103086-09	CMW-3D	SAMPLE	1	03/22/11	20:51:04	1103086	
55	1103086-10	DUP-2	SAMPLE	1	03/22/11	20:58:04	1103086	
56	CRL3	CRI	CRI	1	03/22/11	21:05:04		(Q) (BA)
57	IFA3	ICSA	ICS	1	03/22/11	21:12:04		
58	IFB3	ICSAB	ICS	1	03/22/11	21:19:04		
59	CCV5	CCV	CCV	1	03/22/11	21:26:06		
60	CCB5	CCB	CCB	1	03/22/11	21:33:07		(Q) (SE)
61	1103086-11	CMW-3S	SAMPLE	1	03/22/11	21:40:12	1103086	
62	1103086-13	MW-B7D	SAMPLE	1	03/22/11	21:47:13	1103086	
63	1103086-14	MW-S1	SAMPLE	1	03/22/11	21:54:13	1103086	
64	1103086-15	PW-4	SAMPLE	1	03/22/11	22:01:13	1103086	
65	1103086-16	CMW-2	SAMPLE	1	03/22/11	22:08:13	1103086	
66	1103086-17	PW-3	SAMPLE	1	03/22/11	22:15:13	1103086	
67	1103086-18	CMW-1	SAMPLE	1	03/22/11	22:22:13	1103086	
68	1103086-19	CMW-4	SAMPLE	1	03/22/11	22:29:13	1103086	
69	1031711-BLK1	PBW	PBW	1	03/22/11	22:36:13	1103068	
70	1031711-BS1	LCSW	LCS	1	03/22/11	22:43:13	1103068	(L) (B)
71	CCV6	CCV1	CCV	1	03/22/11	22:50:14		
72	CCB6	CCB1	CCB	1	03/22/11	22:57:14		
73	1103068-01	GW08-0311	SAMPLE	1	03/22/11	23:04:15	1103068	
74	1031711-DUP1	GW08-0311D	SAMPLE	1	03/22/11	23:11:16	1103068	
75	1031711-MS1	GW08-0311S	SAMPLE	1	03/22/11	23:18:16	1103068	
76	SRD2	GW08-0311L	SAMPLE	5	03/22/11	23:25:16	1103068	
77	1031711-PS1	GW08-0311A	SAMPLE	1	03/22/11	23:32:17	1103068	
78	1103068-02	GW08DP-0311	SAMPLE	1	03/22/11	23:39:17	1103068	

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Reviewed By: Patricia A Murphy Date: 3-23-11

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
79	1103068-03	FB01-0311	SAMPLE	1	03/22/11	23:46:17	1103068	
80	CRL4	CRI	CRI	1	03/22/11	23:53:17		(Q) (BA)
81	IFA4	ICSA	ICS	1	03/23/11	00:00:18		
82	IFB4	ICSAB	ICS	1	03/23/11	00:07:18		
83	CCV7	CCV1	CCV	1	03/23/11	00:14:18		
84	CCB7	CCB1	CCB	1	03/23/11	00:21:19		
85	1103068-04	GW07-0311	SAMPLE	1	03/23/11	00:28:20	1103068	
86	1103068-05	GW03-0311	SAMPLE	1	03/23/11	00:35:21	1103068	
87	1103068-06	GW01-0311	SAMPLE	1	03/23/11	00:42:21	1103068	
88	1103068-07	GW02-0311	SAMPLE	1	03/23/11	00:49:21	1103068	
89	1103068-08	GW04-0311	SAMPLE	1	03/23/11	00:56:22	1103068	
90	1103068-09	GW05-0311	SAMPLE	1	03/23/11	01:03:22	1103068	
91	1103068-10	GW06-0311	SAMPLE	1	03/23/11	01:10:22	1103068	
92	1032004-BLK1	PBW	PBW	1	03/23/11	01:17:22	1103087	
93	1032004-BS1	LCSW	LCS	1	03/23/11	01:24:23	1103087	(L) (B)
94	1103087-01	MW-3	SAMPLE	1	03/23/11	01:31:23	1103087	
95	CCV8	CCV1	CCV	1	03/23/11	01:38:24		
96	CCB8	CCB1	CCB	1	03/23/11	01:45:25		
97	1032004-DUP1	MW-3D	SAMPLE	1	03/23/11	01:52:25	1103087	
98	1032004-MS1	MW-3S	SAMPLE	1	03/23/11	01:59:26	1103087	
99	SRD3	MW-3L	SAMPLE	5	03/23/11	02:06:27	1103087	
100	1032004-PS1	MW-3A	SAMPLE	1	03/23/11	02:13:27	1103087	
101	1103087-02	MW-2	SAMPLE	1	03/23/11	02:20:28	1103087	
102	1103087-03	MW-8	SAMPLE	1	03/23/11	02:27:28	1103087	
103	1103087-04	MW-9	SAMPLE	1	03/23/11	02:34:29	1103087	
104	CRL5	CRI	CRI	1	03/23/11	02:41:29		(Q) (BA)
105	IFA5	ICSA	ICS	1	03/23/11	02:48:29		
106	IFB5	ICSAB	ICS	1	03/23/11	02:55:29		
107	CCV9	CCV1	CCV	1	03/23/11	03:02:30		
108	CCB9	CCB1	CCB	1	03/23/11	03:09:31		
109	1103087-05	MW-12	SAMPLE	1	03/23/11	03:16:31	1103087	
110	1103087-06	MW-17	SAMPLE	1	03/23/11	03:23:32	1103087	

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Reviewed By: Patricia A Murphy Date: 3-23-11

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
111	1032002-BLK1	PBW	PBW	1	03/23/11	03:30:33	1103082	
112	1032002-BS1	LCSW	LCS	1	03/23/11	03:37:33	1103082	(L) (B)
113	1103082-01	MP-02	SAMPLE	1	03/23/11	03:44:34	1103082	
114	1032002-DUP1	MP-02D	SAMPLE	1	03/23/11	03:51:34	1103082	
115	1032002-MS1	MP-02S	SAMPLE	1	03/23/11	03:58:35	1103082	
116	SRD4	MP-02L	SAMPLE	5	03/23/11	04:05:35	1103082	
117	1032002-PS1	MP-02A	SAMPLE	1	03/23/11	04:12:36	1103082	
118	1103082-02	RBGW-031711	SAMPLE	1	03/23/11	04:19:37	1103082	
119	CCVA	CCV2	CCV	1	03/23/11	04:26:38		
120	CCBA	CCB2	CCB	1	03/23/11	04:33:39		
121	1103082-03	MP-03	SAMPLE	1	03/23/11	04:40:40	1103082	
122	1103082-04	IP-01	SAMPLE	1	03/23/11	04:47:41	1103082	(H) (NA) 4x
123	1103082-05	FDIP-01	SAMPLE	1	03/23/11	04:54:42	1103082	(H) (NA) 4x
124	1103082-06	MP-01	SAMPLE	1	03/23/11	05:01:43	1103082	
125	1103082-07	MW-23R	SAMPLE	1	03/23/11	05:08:44	1103082	
126	1103082-10	MW-13D	SAMPLE	1	03/23/11	05:15:45	1103082	
127	1103082-11	MW-13R	SAMPLE	1	03/23/11	05:22:46	1103082	(H) (NA) 3x
128	CRL6	CRI1	CRI	1	03/23/11	05:30:17		(Q) (BA)
129	IFA6	ICSA1	ICS	1	03/23/11	05:37:18		
130	IFB6	ICSAB1	ICS	1	03/23/11	05:44:20		
131	CCVB	CCV2	CCV	1	03/23/11	05:51:21		
132	CCBB	CCB2	CCB	1	03/23/11	05:58:22		
133	1103082-11RE1	MW-13R	SAMPLE	3	03/23/11	06:07:48	1103082	
134	1032204-BLK1	PBW	PBW	1	03/23/11	06:14:48	1103066	
135	1032204-BS1	LCSW	LCS	1	03/23/11	06:21:48	1103066	(L) (B)
136	1103066-06	DLX-PW-12	SAMPLE	1	03/23/11	06:28:48	1103066	
137	1032204-DUP1	DLX-PW-12D	SAMPLE	1	03/23/11	06:35:48	1103066	
138	1032204-MS1	DLX-PW-12S	SAMPLE	1	03/23/11	06:42:48	1103066	
139	SRD5	DLX-PW-12L	SAMPLE	1	03/23/11	06:49:48	1103066	
140	1032204-PS1	DLX-PW-12A	SAMPLE	1	03/23/11	06:56:48	1103066	
141	1103066-01	DLX-PW-6	SAMPLE	1	03/23/11	07:03:48	1103066	
142	1103066-02	DLX-PW-4	SAMPLE	1	03/23/11	07:10:48	1103066	

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Reviewed By: Patricia A Murphy Date: 3-23-11

ICP Run Log (P3)

File Name: P30322C

Seq	Sample ID	Client ID	Sample Type	DF	Date	Time	SDG	Action Needed
143	CCVC	CCV	CCV	1	03/23/11	07:17:48		
144	CCBC	CCB	CCB	1	03/23/11	07:24:50		
145	1103066-03	DLX-PW-16	SAMPLE	1	03/23/11	07:31:50	1103066	
146	1103066-05	DLX-PW-11	SAMPLE	1	03/23/11	07:38:50	1103066	
147	1103066-07	DLX-PW-DUP1	SAMPLE	1	03/23/11	07:45:50	1103066	
148	CRL7	CRI	CRI	1	03/23/11	07:53:02		(Q) (BA)
149	IFA7	ICSA	ICS	1	03/23/11	08:00:03		
150	IFB7	ICSAB	ICS	1	03/23/11	08:07:03		
151	CCVD	CCV	CCV	1	03/23/11	08:14:04		
152	CCBD	CCB	CCB	1	03/23/11	08:21:05		
153	1103082-04RE1	IP-01	SAMPLE	4	03/23/11	09:18:16	1103082	
154	1103082-05RE1	FDIP-01	SAMPLE	4	03/23/11	09:25:17	1103082	
155	CRL8	CRI	CRI	1	03/23/11	09:33:00		(Q) (BA)
156	IFA8	ICSA	ICS	1	03/23/11	09:40:00		
157	IFB8	ICSAB	ICS	1	03/23/11	09:47:00		
158	CCVE	CCV1	CCV	1	03/23/11	09:54:01		
159	CCBE	CCB1	CCB	1	03/23/11	10:01:02		

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Reviewed By: Patricia A Murphy Date: 3-23-11

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 1 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

STANDARDS and REAGENTS TRACEABILITY

Seq. File Name: P30322C

	Ref #*	Manufacturer	Lot #	Expiration Date
HNO_3 [Baker Instra-analyzed Trace-Metals grade]	0L13008	JT Baker	J45042	12/15
HCl [Baker Instra-analyzed Trace-Metals grade]	0L21024	Caledon	74606	12/15
SM-770-027 multi-element standard mix (RSTD-1)	0F12002	High Purity	1015827	06/09/11
SM-770-028 part A multi-element standard mix (RSTD-2A)	0J18002	High Purity	1028535	10/13/11
SM-770-028 part B multi-element standard mix (RSTD-2B)	0J18001	High Purity	1028536	10/13/11
SM-770-029 part A multi-element standard mix (RSTD-3A)	0D14008	High Purity	0925340	04/09/11
SM-770-029 part B multi-element standard mix (RSTD-3B)	0G31002	High Purity	1010601	01/27/12
SM-770-030 multi-element standard mix (RSTD-4)	0F12003	High Purity	1015830	06/09/11
SPEX-R multi-element standard mix	0F12001	High Purity	1015828	06/09/11
ICP-AES-CRQL multi-element standard mix	0B26004	High Purity	1005206	02/23/11
ICV1 multi-element standard mix	0H10010	EPA	0307	08/10/15
ICSA multi-element standard mix	0H10011	EPA	1206	08/10/15
ICSB multi-element standard mix	0H10012	EPA	0203	08/10/15
ARSENIC (As) 1,000 PPM single-element standard	0L01020	High Purity	1021405	06/01/12
Internal Mix	0G28003	High Purity	1020727	07/27/11
SM-770-040 multi-element CCV mix (Soln A)	0E03001	High Purity	1010910	04/21/11
SM-770-040 multi-element CCV mix (Soln B)	0E03001	High Purity	1010911	04/21/11
SM-770-042 (LRS 6010B)	0B23007	High Purity	1004021	02/10/11

Multi-Element Stock Standard Concentrations:

Stock Standard	Analyte Concentrations (µg/mL)
RSTD-1 multi-element standard mix	Cd:1,000 Cr:1,000 Cu:1,000 Pb:1,000 Ni:1,000 Se:1,000 Ag:100 Tl:1,000 Zn:1,000
RSTD-2A/2B multi-element standard mix	Part A: As:1,000 Ba:1,000 Be:1,000 Co:1,000 Mn:1,000 Mo:1,000 V:1,000 Part B: Fe:25,000
RSTD-3A/3B multi-element standard mix	Part A: Ca:10,000 Mg:10,000 K:10,000 Na:10,000 Part B: Al:10,000
RSTD-4 multi-element standard mix	Sb:1,000 Bi:1,000 B:1,000 Sn:1,000 Ti:1,000
SPEX-R multi-element standard mix	Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 B:1,000
ICP-AES-CRQL-R multi-element standard mix	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60
LRS 6010B multi-element standard mix	Al:20 Ba:20 K:500 Mg:500 Na:500 Ca:500 Ag:0.5 Be:0.5 Cd:0.5 Co:1 Cr:1 Cu:0.5 Fe:10 Mn:1 Ni:0.5 Tl:1 V:2 Zn:2 Pb:0.3 Se:0.5 As:1 Mo:2 Sn:2 Bi:2 Ti:2 Sb:1 B:2
Internal Mix	Li:50,000 Y:250

Entered By: [signature]

Reviewed By: [signature] Date: 3-21-11

*Ref# = Logbook ID, Page number, and item number from Materials Receipt Log

**High Purity is abbreviated "HP" on reporting forms

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 2 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation instructions	Resultant Analyte Conc. (µg/L)
S0/ICB/CCB- 031211 JRR	1C12001	Place in a 500 mL volumetric flask: 100 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Bring up to volume with deionized water. Transfer to a 2L Teflon bottle and add 1.5L deionized water. Final volume 2 L. Prepare as needed.	N/A
RSTD-1- 032111 JCF	1C21004	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-1 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Cd:2,000 Cr:2,000 Cu:2,000 Pb:2,000 Ni:2,000 Se:2,000 Ag:200 Tl:2,000 Zn:2,000
RSTD-2- 032111 JCF	1C21005	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL each RSTD-2A and RSTD-2B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	As:2,000 Ba:2,000 Be:2,000 Co:2,000 Fe:50,000 Mn:2,000 Mo:2,000 V:2,000
RSTD-3- 032111 JCF	1C21006	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 2.0 mL each RSTD-3A and RSTD-3B into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	K:100,000 Na:100,000 Al:100,000 Mg:100,000 Ca:100,000
RSTD-4- 032111 JCF	1C21007	In a 200 mL volumetric flask, combine 150 mL deionized water, 2 mL concentrated HNO_3, and 10 mL concentrated HCl. Pipet 0.4 mL RSTD-4 into flask. Bring up to 200 mL volume with deionized water. Prepare as needed.	Sn:2,000 Bi:2,000 Ti:2,000 Sb:2,000 B:2,000
ICV1- 022311 JRR	1B23006	Place in a 500 mL volumetric flask: 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICV1 into flask and 0.55 mL Compuchem SPEX-R. Bring up to volume with deionized water. Transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:2,521 Ba:497 K:10,021 Mg:6,074 Na:10,097 Ca:10,026 Ag:501 Be:495 Cd:496 Co:499 Cr:490 Cu:492 Fe:5,082 Mn:499 Ni:503 Tl:1,028 V:501 Zn:1,025 Pb:1002 Se:1,029 As:999 Sb:994 Mo:1,100 Sn:1,100 Bi:1,100 Ti:1,100 B:1,100
CCV/CVS1- 031511 JRR	1C15005	Place in a 500-mL volumetric flask: 300 mL deionized water, 20 mL concentrated HNO_3, and 100 mL concentrated HCl. Add 50 ml of SM-770-40 Soln A and Soln B. Bring up to volume with deionized water. Transfer to a 2000mL Teflon bottle and add 1.5 L of deionized water. Prepare as needed.	Al:50,000 Ba:1,000 K:50,000 Mg:50,000 Na:50,000 Ca:50,000 Ag:100 Be:1,000 Cd:1,000 Co:1,000 Cr:1,000 Cu:1,000 Fe:25,000 Mn:1,000 Ni:1,000 Tl:1,000 V:1,000 Zn:1,100 Pb:1,000 Se:1,000 As:1,000 Mo:1,000 Sn:1,000 Bi:1,000 Ti:1,000 Sb:1,000 B:1,000
LRS- 11110 JCF	0K11007	In a 500 mL volumetric flask, combine 200 mL deionized water, 5 mL concentrated HNO_3 and 25 mL concentrated HCl. Pipet 5.0mL of LRS 6010B. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Al:200 Ba:200 K:5,000 Mg:5,000 Na:5,000 Ca:5,000 Ag:5 Be:5 Cd:5 Co:10 Cr:10 Cu:5 Fe:100 Mn:10 Ni:5 Tl:10 V:20 Zn:20 Pb:3 Se:5 As:10 Mo:20 Sn:20 Bi:20 Ti:20 Sb:10 B:20

Standard Solutions Prepared By: John Rennie

Entered By: John Rennie

Reviewed By: JR

Date: 3-21-11

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

Daily Standards/QC Preparation Log for Trace ICP (P3 & P4) 3 of 3 CompuChem a division of Liberty Analytical Corp. **Worksheet 1 P(6) 2**

Standard Lot Number*	LIMS ID Number	Preparation Instructions	Resultant Analyte Conc. (µg/L)
As- 032/11 JCF	1C21008	In a 100 mL volumetric flask, combine 50 mL deionized water, 1 mL concentrated HNO_3, 5 mL concentrated HCl, and 0.1 mL 1000-ppm As standard. Bring to final 100 mL volume	As:1,000
ICSA- 032/11 JCF	1C21002	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Al:244,100 Ba:2 Ca:234,900 Co:4 Cr:43 Cu:23 Fe:95,600 Mg:247,500 Mn:19 Ni:21 Zn:28 Pb:10
ICSAB- 032/11 JCF	1C21003	In a 500-mL volumetric flask, combine 350 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 50.0 mL ICSA and 50.0 mL ICSB into flask. Add 0.5 mL Compuchem SPEX-R. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL.	Ag:206 Al:241,100 Ba:495 Be:475 Ca:231,100 Cd:940 Co:461 Cr:511 Cu:548 Fe:94,800 Mg:251,100 Mn:502 Ni:984 Tl:103 V:494 Zn:1028 Pb:61 Se:53 Sb:589 As:101 Sn:1,000 Bi:1,000 Mo:1,000 Ti:1,000 B:1,000
EPA-CRI- 032/11 JCF	1C21001	In a 500 mL volumetric flask, combine 300 mL deionized water, 5 mL concentrated HNO_3, and 25 mL concentrated HCl. Pipet 0.50 mL ICP-AES-CRQL-R and 25 µL Compuchem SPEX-R into flask. Bring up to volume with deionized water and transfer to a 500mL Teflon bottle. Final volume 500 mL. Prepare as needed.	Ag:10 Be:5 Cd:5 Co:50 Cr:10 Cu:25 Mn:15 Ni:40 Tl:25 V:50 Zn:60 Pb:10 Se:35 As:10 Sb:60 Sn:50 B:50 Mo:50 Bi:50 Ti:50
P3RINSE- 050811JRR	1C08020	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P4RINSE- 021811 JRR	1B18002	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P5RINSE- N/A	N/A	In a 10 L container, combine 8 L deionized water and 400 mL concentrated HNO_3 Fill with deionized water. Final volume 10 L.	N/A
P3INTSTD- 031611 JRR	1C16001	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P4INTSTD- 030311 JRR	1C03001	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000
P5INTSTD- N/A	N/A	In a 10 L container, combine 8 L deionized water, 400 mL concentrated HNO_3, and 200 mL Internal Mix. Fill with deionized water. Final volume 10 L.	Li:1,000,000 Y:5,000

Standard Solutions Prepared By: John Rose

Entered By: John Rose

Reviewed By: JC

Date: 7-22-11

*Standard Lot Number consists of standard ID, date prepared, and initials of preparer.

03/25/10: jcf

METHOD: ALT-P3Q1 STANDARD: S0 BLANK
RUN TIME: 03/22/11 14:33:56

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
AVGE	-.48398	1.9161	.27921	-.08592	.00000	.01265	-.01278
SDEV	.07715	.0294	.00094	.01126	.00000	.01471	.00284
%RSD	15.940	1.5358	.33798	13.102	.00000	116.27	22.226
#1	-.42798	1.9091	.27956	-.07791	.00000	-.00075	-.01308
#2	-.57197	1.8908	.27814	-.09879	.00000	.01032	-.01546
#3	-.45198	1.9484	.27993	-.08106	.00000	.02840	-.00980

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
AVGE	.00132	.47098	.00630	.19412	.01400	.00466	-.12442
SDEV	.00318	.03381	.00903	.04165	.00461	.00085	.01586
%RSD	240.11	7.1780	143.32	21.454	32.899	18.259	12.746
#1	.00301	.48898	.00869	.17307	.00896	.00434	-.13832
#2	-.00234	.43198	-.00368	.24209	.01506	.00402	-.10715
#3	.00331	.49198	.01391	.16720	.01799	.00563	-.12780

ELEM	NI2316	TL1908	V_2924	ZN2138	AS1890	22031	22032
AVGE	-.00338	-.00351	-.00563	.00322	.03705	.07558	-.06785
SDEV	.00200	.01047	.00021	.00136	.01895	.01740	.02968
%RSD	59.154	297.83	3.6785	42.124	51.147	23.018	43.738
#1	-.00360	-.00134	-.00576	.00200	.01971	.06081	-.05078
#2	-.00526	.00569	-.00539	.00469	.03415	.09476	-.10212
#3	-.00128	-.01490	-.00573	.00298	.05728	.07118	-.05066

ELEM	20681	20682	19601	19602	SN1899	BI2230	MO2020
AVGE	-.00213	.01010	-.00904	.06714	-.00080	-.06597	.04535
SDEV	.00696	.02446	.02921	.03486	.00772	.06348	.02718
%RSD	327.40	242.25	323.11	51.918	966.56	96.235	59.928
#1	.00301	.02071	-.04277	.09088	-.00902	-.04143	.07615
#2	-.01005	.02746	.00770	.02712	.00033	-.01842	.03512
#3	.00066	-.01788	.00795	.08343	.00629	-.13806	.02477

ELEM	TI3349	B_2496
AVGE	.05601	.07210
SDEV	.20698	.00929
%RSD	369.53	12.892
#1	.06582	.08019
#2	-.15570	.06194
#3	.25791	.07416

METHOD: ALT-P3Q1 STANDARD: S RSTD-1
RUN TIME: 03/22/11 14:40:56

ELEM	AG3280	CD2265	CR2677	CU3247	NI2316	TL1908	ZN2138
AVGE	28.608	418.99	23.127	180.41	18.826	4.4079	11.802
SDEV	.073	.74	.033	.81	.044	.0113	.021
%RSD	.25346	.17690	.14102	.44864	.23329	.25711	.17914
#1	28.610	418.66	23.106	179.85	18.787	4.4113	11.798
#2	28.535	418.47	23.110	180.05	18.818	4.3953	11.783
#3	28.680	419.84	23.165	181.34	18.874	4.4171	11.825

ELEM	22031	22032	19601	19602
AVGE	115.52	96.217	12.241	20.902
SDEV	.20	.215	.032	.020
%RSD	.17059	.22318	.26264	.09509
#1	115.35	96.336	12.217	20.903
#2	115.74	96.345	12.278	20.881
#3	115.49	95.969	12.229	20.921

METHOD: ALT-P3Q1 STANDARD: S RSTD-3
RUN TIME: 03/22/11 14:47:57

ELEM	AL3082	CA3179	K_7664	MG2790	NA3302
AVGE	864.32	.01915	315.04	163.62	19.586
SDEV	3.30	.00032	.94	.72	.114
%RSD	.38216	1.6580	.29744	.43997	.58426
#1	860.52	.01878	314.07	162.81	19.477
#2	865.93	.01933	315.13	163.87	19.575
#3	866.51	.01933	315.93	164.18	19.705

METHOD: ALT-P3Q1 STANDARD: S RSTD-2
RUN TIME: 03/22/11 14:53:24

ELEM	BA4934	BE3130	CO2286	FE2714	MN2576	V_2924	AS1890
AVGE	185.92	1116.9	67.213	40.243	34.726	10.443	49.513
SDEV	.16	1.6	.062	.064	.027	.005	.138
%RSD	.08345	.14227	.09196	.15782	.07877	.05165	.27792
#1	185.86	1115.1	67.170	40.187	34.707	10.442	49.598
#2	185.80	1117.4	67.185	40.230	34.714	10.438	49.354
#3	186.10	1118.2	67.284	40.312	34.757	10.449	49.587

ELEM	MO2020
AVGE	57.184
SDEV	.363
%RSD	.63477
#1	56.796
#2	57.242
#3	57.515

STANDARDIZATION RPT. 03/22/11 03:05:49 PM PAGE 1

METHOD: ALT-P3Q1 STANDARD: S RSTD-4
RUN TIME: 03/22/11 14:58:51

ELEM	20681	20682	SN1899	BI2230	TI3349	B_2496
AVGE	6.0462	23.033	8.5803	64.518	146.19	60.634
SDEV	.0173	.102	.0250	.225	.77	.155
%RSD	.28629	.44174	.29122	.34895	.52581	.25555
#1	6.0613	23.145	8.5931	64.677	147.08	60.680
#2	6.0500	23.006	8.5515	64.260	145.69	60.462
#3	6.0273	22.947	8.5963	64.617	145.81	60.762

ANALYSIS REPORT QC STANDARD 03/22/11 03:12:49 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICV1 OPERATOR:
RUN TIME: 03/22/11 15:05:52
COMMENT: ICV1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	496.5863	2560.387	496.5535	483.0397	9892.727	497.2260	500.9359
SDEV	1.6181	9.562	1.5701	1.3745	471.673	1.6728	1.5272
%RSD	.3258362	.3734604	.3161899	.2845494	4.767873	.3364231	.3048701
#1	498.4544	2571.399	498.3548	484.6237	10169.07	499.1547	502.6911
#2	495.6275	2554.195	495.8304	482.3340	10161.00	496.3539	499.9111
#3	495.6769	2555.565	495.4753	482.1615	9348.105	496.1696	500.2054
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	501.0000	2521.000	497.0000	495.0000	10026.00	496.0000	499.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	498.5553	495.8391	5024.049	9033.391	5904.852	487.7318	10353.35
SDEV	1.5417	1.3825	18.371	25.119	18.575	1.6925	83.70
%RSD	.3092341	.2788200	.3656616	.2780680	.3145795	.3470122	.8084249
#1	500.3179	497.4266	5044.534	9061.141	5925.629	489.6836	10267.66
#2	497.8903	495.1912	5009.035	9012.207	5889.850	486.8419	10357.50
#3	497.4577	494.8996	5018.578	9026.824	5899.078	486.6699	10434.90
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	490.0000	492.0000	5082.000	10021.00	6074.000	499.0000	10097.00
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	502.8906	1028.359	503.3800	970.9994	1002.335	1004.367	1000.869
SDEV	2.3269	4.601	1.3060	3.2312	1.258	2.337	3.995
%RSD	.4626991	.4473858	.2594504	.3327714	.1255112	.2327074	.3991704
#1	505.5771	1025.744	504.8712	974.5286	1003.516	1006.863	1005.455
#2	501.5852	1025.662	502.4399	970.2833	1001.012	1002.230	998.1431
#3	501.5095	1033.671	502.8288	968.1863	1002.477	1004.006	999.0083
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	503.0000	1028.000	501.0000	1025.000	1002.000	1029.000	994.0000
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000	10.40000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	993.2172	998.5312	1004.230	1010.005	996.3036	991.3147	1010.879
SDEV	4.9240	1.9198	1.125	4.991	3.6216	2.4106	3.612
%RSD	.4957635	.1922580	.1120680	.4941880	.3635084	.2431728	.3572672
#1	998.8676	1000.725	1004.905	1015.415	1000.479	990.4695	1015.043
#2	990.9404	997.1600	1002.931	1005.579	994.4271	989.4406	1008.612
#3	989.8437	997.7085	1004.854	1009.022	994.0054	994.0341	1008.981
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	999.0000						
RANGE	10.40000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1059.956	1044.115	1050.965	1062.275	1048.794	3048.200
SDEV	1.721	5.585	1.267	3.212	3.551	1.267
%RSD	.1623325	.5348736	.1205806	.3023708	.3385660	.0415567
#1	1061.601	1050.338	1051.172	1064.998	1052.862	3047.133
#2	1058.168	1042.467	1049.607	1058.733	1046.313	3049.600
#3	1060.099	1039.540	1052.117	1063.093	1047.207	3047.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1100.000	1100.000	1100.000	1100.000	1100.000	
RANGE	10.40000	10.40000	10.40000	10.40000	10.40000	

ANALYSIS REPORT QC STANDARD 03/22/11 03:19:50 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICB OPERATOR:
RUN TIME: 03/22/11 15:12:53
COMMENT: ICB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6838638	1.761417	-.381749	.0145973	4.669891	.0069219	.6907098
SDEV	.6729578	4.195647	.105879	.0198622	.187418	.0438551	.2488855
%RSD	98.40524	238.1973	27.73527	136.0678	4.013336	633.5659	36.03329
#1	.3916921	-2.87443	-.385275	-.007378	4.604939	-.007835	.5457488
#2	1.453527	5.298000	-.274151	.0199011	4.523589	.0562522	.9780942
#3	.2063721	2.860684	-.485821	.0312691	4.881145	-.027651	.5482863
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2733490	.2146383	1.677033	7.248985	4.997710	-.188008	39.27020
SDEV	.7839441	.6715113	11.63371	6.972518	1.985715	.105774	46.10598
%RSD	286.7923	312.8572	693.7080	96.18613	39.73250	56.26063	117.4071
#1	.0874699	.2336759	-8.73548	10.10935	4.221901	-.301129	71.14559
#2	1.133527	.8764284	14.23366	12.33645	7.254211	-.091561	60.26123
#3	-.400950	-.466189	-.467079	-.698847	3.517018	-.171333	-13.5962
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2767205	1.254801	.2886111	.0782367	.2402168	Q-5.28662	-1.27724
SDEV	.3268220	4.842057	.5042887	.1136552	.0688281	1.39461	.19140
%RSD	118.1055	385.8825	174.7295	145.2709	28.65250	26.37998	14.98514
#1	-.097997	-.679707	-.043175	.0363805	.2237958	Q-5.21264	-1.49109
#2	.4253138	6.765048	.8689261	.2068845	.3157702	-3.93048	-1.12199
#3	.5028446	-2.32094	.0400822	-.008555	.1810843	Q-6.71675	-1.21866
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.259627	-2.61994	1.663987	.9475420	-2.39197	-7.52242	-4.17440
SDEV	1.598334	.56920	.323294	1.798339	.65122	.54353	1.82170
%RSD	615.6273	21.72564	19.42885	189.7898	27.22532	7.225473	43.63983
#1	1.551970	-1.96280	1.311449	-.635899	-1.92204	-7.56841	-4.04052
#2	-.860043	-2.95883	1.946589	2.902687	-3.13533	-6.95736	-2.42333
#3	-1.47081	-2.93821	1.733923	.5758370	-2.11854	-8.04150	-6.05934
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.43723	1.719904	-.355884	7.629100	1.096271	3043.489
SDEV	2.62520	1.691137	.492818	9.628406	.896363	19.164
%RSD	182.6564	98.32745	138.4773	126.2063	81.76474	.6296570
#1	-2.92589	.2338845	-.116973	1.317699	1.275434	3041.266
#2	1.593925	3.560071	-.028057	18.71139	1.889521	3025.533
#3	-2.97974	1.365755	-.922621	2.858209	.1238574	3063.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

ANALYSIS REPORT QC STANDARD 03/22/11 03:26:55 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/22/11 15:19:58
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.14498	-5.14044	Q-.562872	4.862832	1.894581	4.991290	52.24187
SDEV	.42870	6.59029	.034050	.087472	.255205	.117178	.99595
%RSD	4.225725	128.2048	6.049372	1.798780	13.47026	2.347654	1.906420
#1	10.49773	-11.1502	Q-.583386	4.772496	1.627553	4.937230	51.35337
#2	10.26938	1.907217	Q-.523567	4.947126	2.136038	5.125739	53.31845
#3	9.667846	-6.17834	Q-.581664	4.868873	1.920152	4.910901	52.05379
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.53865	25.59827	-.153955	3.345508	-1.78031	14.81581	28.56751
SDEV	.56255	.45465	11.35685	5.557576	1.93625	.26964	108.1326
%RSD	5.337940	1.776107	7376.714	166.1205	108.7592	1.819957	378.5161
#1	10.37698	25.34773	-9.21691	9.720764	-1.93849	14.58814	151.3304
#2	11.16433	26.12308	12.58577	.7932800	.2301782	15.11358	-52.5529
#3	10.07464	25.32400	-3.83072	-.477520	-3.63262	14.74572	-13.0750
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.07639	26.66704	52.21261	54.64124	11.14248	32.05282	63.40995
SDEV	.53166	5.32512	.78245	.98615	.80165	2.53495	2.39035
%RSD	1.263558	19.96892	1.498583	1.804766	7.194518	7.908666	3.769671
#1	41.79281	21.37538	51.51404	53.63622	10.31158	33.07760	61.84552
#2	42.68971	32.02500	53.05811	55.60736	11.91126	33.91495	66.16148
#3	41.74663	26.60074	52.06568	54.68015	11.20459	29.16591	62.22286
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.492866	7.771077	12.82068	66.21026	62.00793	30.43324	32.85742
SDEV	.796070	.932011	1.25733	3.48669	1.91069	1.81482	3.87740
%RSD	8.385981	11.99333	9.807065	5.266088	3.081362	5.963275	11.80067
#1	9.087062	7.228924	11.84572	63.30856	61.11120	32.41965	33.40218
#2	10.41006	7.237048	14.23982	70.07816	64.20204	28.86193	36.43362
#3	8.981470	8.847261	12.37651	65.24406	60.71055	30.01815	28.73645
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	52.85133	54.14369	51.52055	54.88790	52.29067	3063.711
SDEV	3.10057	2.73978	.75802	6.09189	1.27476	53.887
%RSD	5.866587	5.060208	1.471294	11.09879	2.437826	1.758875
#1	54.39113	54.12950	50.65030	53.61859	51.30103	3120.000
#2	49.28227	51.41103	52.03687	61.51444	53.72913	3012.600
#3	54.88059	56.89054	51.87448	49.53065	51.84186	3058.533
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/22/11 15:26:58
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5410896	263778.4	2.394059	.6042360	253408.0	2.942917	5.724423
SDEV	.1677669	1443.7	.027798	.0221718	1752.8	.007567	.439184
%RSD	31.00538	.5473179	1.161145	3.669393	.6916988	.2571323	7.672108
#1	.7243086	262701.6	2.364441	.5898417	251599.9	2.943121	5.249227
#2	.3949930	265418.9	2.398152	.5930976	253524.4	2.950381	5.808645
#3	.5039675	263214.7	2.419584	.6297687	255099.8	2.935250	6.115396
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	10.00000	48820.00	400.0000	10.00000	46980.00	10.00000	10.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	45.98996	23.49264	99913.42	8.181232	265596.5	24.82900	805.9659
SDEV	.69992	.22207	573.15	6.519237	1589.7	.14952	111.8617
%RSD	1.521908	.9452727	.5736440	79.68528	.5985320	.6022047	13.87921
#1	45.52173	23.33697	99365.87	1.068015	264130.6	24.70555	688.3453
#2	46.79458	23.74694	100509.1	9.604281	267286.2	24.99526	911.0048
#3	45.65359	23.39400	99865.28	13.87140	265372.6	24.78620	818.5478
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	10.00000	19120.00	2000.000	49500.00	20.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.12073	1.309239	.7453048	35.27926	15.15090	-.196088	3.071429
SDEV	.22607	2.661404	.1481398	.27579	1.48666	1.782594	1.309253
%RSD	1.021965	203.2788	19.87641	.7817245	9.812345	909.0765	42.62683
#1	22.00558	-1.76274	.7168161	35.09763	15.91636	1.807809	1.671689
#2	22.38119	2.772416	.9056200	35.59661	13.43749	-.790684	3.276637
#3	21.97542	2.918036	.6134782	35.14354	Q16.09884	-1.60539	4.265959
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	1.000000	28.00000	10.00000	.0000000	.0000000
RANGE	10.00000	20.00000	40.00000	40.00000	6.000000	10.00000	20.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.18286	10.71472	17.36047	6.722876	1.244293	-6.91475	3.154059
SDEV	1.12087	.84423	2.64752	4.817707	3.281958	.99508	3.160869
%RSD	94.76000	7.879177	15.25029	71.66138	263.7610	14.39064	100.2159
#1	-1.37241	10.17300	18.77858	9.427656	-2.20461	-7.95815	6.679339
#2	.0207109	11.68745	14.30598	1.160567	4.328915	-6.80981	2.210194
#3	-2.19686	10.28369	18.99686	9.580406	1.608571	-5.97631	.5726433
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-6.26292	8.540761	-.755159	-11.3591	-4.45553	2940.066
SDEV	1.10020	1.195167	.538994	1.6496	.20357	15.303
%RSD	17.56688	13.99368	71.37495	14.52258	4.569036	.5204907
#1	-5.98879	7.306510	-.358045	-13.2590	-4.48447	2955.533
#2	-5.32571	8.623199	-1.36873	-10.2907	-4.64309	2924.933
#3	-7.47427	9.692576	-.538698	-10.5276	-4.23904	2939.733
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	100.0000	100.0000	100.0000	100.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/22/11 15:33:58
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	210.0727	263209.1	531.3975	508.8587	255752.1	1022.638	519.3367
SDEV	.7474	5938.9	12.8725	11.3759	7268.3	22.851	11.5392
%RSD	.3557863	2.256337	2.422388	2.235567	2.841925	2.234518	2.221904
#1	210.7836	270063.0	546.2468	521.9828	264013.7	1048.892	532.6576
#2	210.1412	259979.5	524.5447	502.7746	252900.7	1011.795	512.9360
#3	209.2935	259584.9	523.4012	501.8186	250341.8	1007.227	512.4166
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	92.20000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	562.3044	542.5671	100300.4	15.79274	266181.6	543.1008	996.1914
SDEV	12.2355	3.1371	2284.6	9.13330	6075.5	12.2883	102.1862
%RSD	2.175957	.5781992	2.277785	57.83229	2.282469	2.262614	10.25768
#1	576.4170	545.7853	102934.6	6.017734	273190.6	557.2609	890.5293
#2	555.8269	542.3980	99108.55	17.25181	262936.7	536.8096	1003.540
#3	554.6695	539.5179	98858.26	24.10868	262417.5	535.2321	1094.505
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1063.076	103.7644	527.4120	1075.665	66.71051	54.70463	644.7512
SDEV	23.523	1.5541	12.1030	26.756	1.16184	1.59582	15.5141
%RSD	2.212769	1.497710	2.294782	2.487385	1.741616	2.917151	2.406210
#1	1090.234	102.0529	541.3826	1106.532	67.20781	56.35906	662.6056
#2	1049.909	104.1531	520.7395	1061.372	67.54093	53.17473	634.5594
#3	1049.085	105.0873	520.1139	1059.091	65.38279	54.58011	637.0884
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	20.60000	98.80000	205.6000	12.20000	10.60000	117.8000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	104.8675	61.53471	69.28901	644.3778	644.9345	44.84986	59.62055
SDEV	2.6961	7.04416	3.00254	5.3791	20.6334	6.60845	.91876
%RSD	2.570943	11.44745	4.333350	.8347813	3.199304	14.73460	1.541011
#1	107.9717	69.55405	66.03221	650.3472	668.7227	51.51494	58.77333
#2	103.5208	58.70314	71.94705	639.9064	631.8868	38.29954	60.59713
#3	103.1101	56.34695	69.88777	642.8798	634.1940	44.73511	59.49119
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	982.5687	1021.619	991.8363	992.5273	1010.019	2940.778
SDEV	23.7289	20.296	21.7754	20.8497	22.319	53.277
%RSD	2.414989	1.986653	2.195459	2.100665	2.209776	1.811680
#1	1008.951	1044.798	1016.931	1016.442	1035.734	2879.333
#2	975.7847	1013.028	977.9252	982.9736	998.6558	2974.133
#3	962.9705	1007.031	980.6527	978.1663	995.6691	2968.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	200.0000	200.0000	200.0000	200.0000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/22/11 15:40:59
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.67524	48851.75	961.1323	960.6619	49538.08	949.9705	950.4506
SDEV	.56401	237.03	3.9735	2.6405	435.27	2.7715	2.5428
%RSD	.6020921	.4852058	.4134135	.2748628	.8786511	.2917490	.2675347
#1	93.62457	49072.79	965.1072	963.3469	49848.28	952.5404	952.7590
#2	93.13827	48881.02	961.1295	960.5704	49040.50	950.3373	950.8677
#3	94.26288	48601.44	957.1603	958.0683	49725.46	947.0339	947.7250
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	966.1640	964.0657	24034.13	47780.91	48362.39	950.2689	49943.84
SDEV	3.0146	2.6117	88.09	157.26	125.83	2.7064	108.08
%RSD	.3120142	.2709021	.3665375	.3291293	.2601895	.2848039	.2164072
#1	969.3635	966.8624	24126.66	47942.10	48495.36	952.9158	50067.47
#2	965.7517	963.6446	24024.46	47772.74	48346.63	950.3843	49867.24
#3	963.3768	961.6902	23951.27	47627.90	48245.17	947.5067	49896.81
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	960.5857	962.8249	971.4397	1031.327	951.8806	969.1323	999.8256
SDEV	3.5633	6.2012	3.1154	3.989	3.2953	3.4877	5.0748
%RSD	.3709531	.6440676	.3206963	.3867583	.3461918	.3598759	.5075659
#1	963.9213	958.6918	974.6586	1034.991	955.5660	973.1165	1005.277
#2	961.0044	969.9554	971.2212	1031.911	950.8580	967.6486	998.9619
#3	956.8316	959.8276	968.4393	1027.078	949.2178	966.6317	995.2380
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	969.3834	950.0022	952.8134	1000.721	999.3749	960.5599	973.4080
SDEV	2.5056	5.5174	2.2956	3.587	5.8210	10.2164	.2710
%RSD	.2584768	.5807781	.2409278	.3584619	.5824649	1.063587	.0278440
#1	971.8234	956.3612	955.1640	1004.652	1005.585	972.2977	973.5212
#2	969.5099	947.1603	952.6991	999.8861	998.4968	955.7118	973.6041
#3	966.8169	946.4851	950.5771	997.6246	994.0429	953.6702	973.0987
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	968.2875	961.1572	983.2291	974.1661	1004.359	3046.622
SDEV	6.6470	5.2845	.4543	3.1667	4.476	4.851
%RSD	.6864737	.5498049	.0462065	.3250705	.4456663	.1592183
#1	974.3741	967.1757	983.1987	973.5912	1007.727	3044.733
#2	969.2935	959.0195	983.6979	971.3262	1006.069	3043.000
#3	961.1948	957.2765	982.7908	977.5809	999.2797	3052.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/22/11 15:48:00
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2309377	8.834036	-.405482	.0385349	4.557396	.0556454	.2767315
SDEV	.2214058	3.777519	.030329	.0201238	.215558	.1053995	.1803737
%RSD	95.87251	42.76097	7.479794	52.22227	4.729846	189.4127	65.18004
#1	.4615677	5.889604	-.378947	.0261989	4.319090	.1018567	.4841476
#2	.0200827	7.519247	-.398958	.0276491	4.614317	.1300459	.1566352
#3	.2111628	13.09325	-.438543	.0617568	4.738782	-.064966	.1894116
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2208434	-.078478	-1.23982	9.972138	10.37498	-.220475	6.591032
SDEV	.1097739	.368332	6.84911	9.465982	.87152	.011336	122.3138
%RSD	49.70668	469.3427	552.4297	94.92431	8.400196	5.141532	1855.760
#1	.3464831	.3002938	5.808783	20.29782	9.971479	-.207387	147.4035
#2	.1725597	-.100332	-7.87028	7.914132	9.778331	-.226902	-73.2776
#3	.1434873	-.435397	-1.65795	1.704458	11.37512	-.227138	-54.3528
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2374681	1.893698	-.144075	.0617607	.1101280	-2.75405	.7232122
SDEV	.2462689	2.763739	.420564	.0627940	.8066742	2.21608	1.458728
%RSD	103.7061	145.9441	291.9070	101.6731	732.4880	80.46641	201.7012
#1	.4851428	-.062592	.2820190	-.006754	1.039359	Q-5.19453	-.367829
#2	.2346319	.6882778	-.155361	.1165700	-.410353	-2.20020	2.380087
#3	-.007371	5.055407	-.558883	.0754661	-.298621	-.867419	.1573777
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.298362	-1.72927	1.024129	.7474109	.7071440	-2.09920	-3.08497
SDEV	1.266211	1.64565	1.950744	1.021398	2.578953	9.81070	1.59575
%RSD	424.3870	95.16431	190.4784	136.6582	364.6998	467.3539	51.72657
#1	-1.45719	-3.39232	3.247382	1.920866	-1.51446	-13.0957	-1.25383
#2	1.053143	-1.69390	.2259746	.0581816	3.535316	1.041792	-3.82275
#3	-.491035	-.101595	-.400969	.2631852	.1005712	5.756352	-4.17832
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.563267	1.540260	.1520121	.4751251	-.229624	3053.689
SDEV	1.530947	1.776514	.5937911	3.388957	.346004	5.881
%RSD	59.72640	115.3385	390.6210	713.2768	150.6830	.1925939
#1	3.602346	3.291119	.8356219	4.242575	.1288462	3046.933
#2	3.282291	-.260843	-.144009	-.492208	-.256074	3056.467
#3	.8051657	1.590505	-.235576	-2.32499	-.561643	3057.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-01RE1 OPERATOR:
RUN TIME: 03/22/11 16:03:53
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.463022	106.3669	101.0195	2.386456	2266.186	2.470985	10.74400
SDEV	.280987	2.8093	.5433	.020003	995.905	.035815	.21288
%RSD	11.40823	2.641145	.5378358	.8381853	43.94632	1.449404	1.981348
#1	2.200987	103.2076	101.5004	2.363615	3416.155	2.495947	10.50703
#2	2.428339	108.5840	101.1280	2.400851	1693.576	2.429949	10.91906
#3	2.759741	107.3089	100.4301	2.394901	1688.827	2.487057	10.80590
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.115718	2.193135	95.50691	2018.052	2550.511	4.862209	2714.129
SDEV	.280362	.390411	5.53741	17.486	8.676	.031478	129.710
%RSD	5.480403	17.80151	5.797917	.8665019	.3401777	.6473988	4.779074
#1	5.083853	2.154178	94.24409	2003.291	2556.533	4.850628	2564.833
#2	4.852650	1.823663	90.70998	2037.364	2554.434	4.838162	2799.164
#3	5.410651	2.601564	101.5667	2013.501	2540.566	4.897837	2778.389
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.501235	13.30303	10.44825	13.40052	5.090630	3.399716	13.98138
SDEV	.356060	4.98476	.28742	.07545	.121685	.315209	1.16301
%RSD	5.476805	37.47088	2.750919	.5630634	2.390380	9.271632	8.318276
#1	6.721950	18.99502	10.21615	13.40445	4.979320	3.536162	13.53595
#2	6.090474	9.716189	10.35885	13.32318	5.220547	3.623715	13.10692
#3	6.691282	11.19789	10.76975	13.47393	5.072021	3.039271	15.30127
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.053474	4.101717	5.579865	14.86798	13.53493	3.998473	3.096804
SDEV	.654485	1.378677	.510454	3.73772	.91286	1.196948	.895425
%RSD	12.95120	33.61220	9.148144	25.13936	6.744447	29.93513	28.91448
#1	5.730976	2.677470	6.124018	15.59381	12.50507	2.616593	3.991255
#2	5.004712	5.429788	5.111608	10.82059	14.24440	4.667257	3.098748
#3	4.424733	4.197893	5.503968	18.18955	13.85532	4.711568	2.200409
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	26.08003	13.99319	25.14560	24.04150	24.34149	3057.644
SDEV	.63706	2.29008	.28202	5.82853	.35305	13.545
%RSD	2.442717	16.36567	1.121543	24.24361	1.450403	.4429964
#1	25.37942	11.85769	25.04560	23.14356	23.94052	3042.800
#2	26.23614	13.71030	24.92721	18.71406	24.60573	3060.800
#3	26.62452	16.41157	25.46399	30.26689	24.47821	3069.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-02RE1 OPERATOR:
RUN TIME: 03/22/11 16:10:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.349326	97.39411	99.93561	2.338465	1683.451	2.279271	10.26745
SDEV	.380699	2.60301	.22051	.065338	7.048	.073258	.08731
%RSD	16.20461	2.672653	.2206480	2.794056	.4186634	3.214111	.8503782
#1	1.945845	94.40185	100.0474	2.269069	1683.883	2.215384	10.20773
#2	2.399958	98.64445	100.0778	2.398799	1690.272	2.359231	10.22696
#3	2.702176	99.13603	99.68160	2.347528	1676.196	2.263197	10.36766
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.001947	2.325714	91.64246	1994.981	2520.606	4.767538	2613.945
SDEV	.196325	.405386	8.41994	12.862	6.813	.037677	139.732
%RSD	3.924968	17.43061	9.187817	.6447169	.2702782	.7902828	5.345627
#1	4.793901	1.866401	81.94462	2009.252	2523.280	4.731531	2660.931
#2	5.183951	2.633547	95.89203	1991.405	2525.675	4.806688	2456.776
#3	5.027988	2.477195	97.09075	1984.285	2512.861	4.764395	2724.127
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.375614	15.48931	10.04192	13.28129	5.358327	.5155584	14.67566
SDEV	.100784	1.24123	.05823	.22588	.469674	2.180119	1.91498
%RSD	1.580766	8.013433	.5798968	1.700775	8.765313	422.8657	13.04868
#1	6.490319	14.74523	9.989793	13.09058	4.831482	2.651853	14.96874
#2	6.301251	14.80049	10.10477	13.53074	5.733194	-1.70589	16.42720
#3	6.335271	16.92219	10.03121	13.22255	5.510305	.6007129	12.63104
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.870840	1.406182	7.326990	17.07954	13.47173	-4.59556	3.063335
SDEV	1.698301	1.610643	.613473	2.77287	2.06791	3.26364	3.656497
%RSD	43.87422	114.5402	8.372777	16.23506	15.35000	71.01719	119.3633
#1	2.899916	-.140999	7.309547	19.52806	12.68904	-6.59866	7.266223
#2	5.831839	1.285991	7.948997	17.64201	15.81674	-6.35844	.6129279
#3	2.880767	3.073554	6.722424	14.06856	11.90942	-.829589	1.310855
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	24.94067	11.21303	24.24232	22.78609	24.14832	3080.089
SDEV	3.36332	1.89469	.48327	6.81593	.53180	12.417
%RSD	13.48527	16.89723	1.993494	29.91266	2.202215	.4031466
#1	21.69924	10.98556	23.96292	14.91629	23.84164	3079.333
#2	24.70888	13.21118	24.80035	26.80166	24.76238	3068.066
#3	28.41388	9.442336	23.96367	26.64032	23.84093	3092.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-03RE1 OPERATOR:
RUN TIME: 03/22/11 16:17:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.039042	99.79047	100.8602	2.384254	2277.635	2.486170	10.82338
SDEV	.665470	5.85214	1.3584	.041102	956.093	.163304	.54072
%RSD	21.89738	5.864433	1.346847	1.723886	41.97744	6.568483	4.995871
#1	3.807300	106.5008	102.4277	2.431087	1761.570	2.652832	11.34102
#2	2.641309	97.12567	100.1280	2.367497	1690.462	2.326446	10.86690
#3	2.668516	95.74496	100.0250	2.354178	3380.872	2.479232	10.26220
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.325287	2.403536	102.9818	2024.911	2539.013	4.853959	2866.956
SDEV	.194676	.347375	13.4003	49.447	36.703	.122021	262.631
%RSD	3.655682	14.45268	13.01229	2.441928	1.445553	2.513854	9.160636
#1	5.501389	2.721532	114.4750	2081.398	2581.327	4.994145	3160.081
#2	5.358232	2.456264	106.2073	2003.879	2519.924	4.771613	2787.727
#3	5.116242	2.032811	88.26316	1989.458	2515.789	4.796119	2653.061
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.825839	16.17897	10.69517	13.42938	4.749831	.2743956	14.03732
SDEV	.485660	3.06715	.72450	.21409	1.289040	1.232960	1.48849
%RSD	7.115024	18.95766	6.774059	1.594206	27.13865	449.3366	10.60383
#1	7.326707	19.27702	11.53036	13.63886	4.879531	.9788919	14.84600
#2	6.793839	13.14368	10.31938	13.43833	3.400844	-1.14928	12.31953
#3	6.356970	16.11620	10.23578	13.21096	5.969118	.9935736	14.94642
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.620243	4.363951	4.937956	13.40698	14.34799	2.021607	-.601923
SDEV	1.363653	4.120499	1.997884	3.74297	3.27426	1.787839	1.005431
%RSD	37.66745	94.42128	40.45973	27.91806	22.82036	88.43648	167.0365
#1	2.324359	8.676066	2.979454	9.186145	17.66755	3.445125	-.256513
#2	3.493547	.4664125	4.861394	14.71227	11.12098	.0150265	-1.73453
#3	5.042822	3.949375	6.973020	16.32252	14.25544	2.604671	.1852738
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	28.00787	11.64687	24.48107	31.75487	24.22346	3028.044
SDEV	2.03469	4.47032	1.21169	9.53614	.96382	73.345
%RSD	7.264692	38.38211	4.949514	30.03049	3.978874	2.422189
#1	30.02352	16.40454	25.80706	42.67662	25.32735	2943.467
#2	25.95467	11.00216	23.43141	27.50829	23.79405	3066.533
#3	28.04543	7.533918	24.20474	25.07970	23.54896	3074.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-04RE1 OPERATOR:
RUN TIME: 03/22/11 16:24:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.616564	102.1895	100.6392	2.358839	2244.026	2.401568	10.46587
SDEV	.210054	5.0207	1.5943	.041331	955.164	.066562	.11927
%RSD	8.027839	4.913079	1.584139	1.752178	42.56473	2.771620	1.139625
#1	2.387393	107.8808	102.4596	2.405994	1707.475	2.422358	10.60133
#2	2.662351	100.2998	99.96672	2.341631	1677.783	2.455253	10.41966
#3	2.799946	98.38793	99.49144	2.328892	3346.822	2.327091	10.37662
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.245234	2.203600	96.09383	2006.118	2532.465	4.797133	2640.701
SDEV	.241995	.078473	2.30434	26.294	38.604	.041240	123.222
%RSD	4.613626	3.561137	2.398008	1.310700	1.524365	.8596786	4.666268
#1	5.442440	2.133219	95.29948	2036.107	2576.617	4.824705	2760.058
#2	4.975184	2.189363	94.29175	1995.232	2515.700	4.749722	2513.947
#3	5.318079	2.288216	98.69026	1987.015	2505.077	4.816969	2648.098
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.561517	15.35246	10.45179	13.40643	5.127187	1.346063	14.82875
SDEV	.149427	1.90214	.01642	.11283	.600322	3.137622	1.77212
%RSD	2.277324	12.38983	.1571357	.8415878	11.70861	233.0961	11.95059
#1	6.431843	15.24456	10.44517	13.53569	4.496789	-1.79563	16.79860
#2	6.724928	13.50657	10.43971	13.32770	5.192717	4.479599	14.32362
#3	6.527778	17.30626	10.47049	13.35590	5.692056	1.354220	13.36404
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.727524	2.054336	6.656858	17.37793	13.55212	-3.31433	3.668808
SDEV	.524835	1.639441	1.544585	2.92594	3.56568	4.31624	2.732808
%RSD	14.07999	79.80394	23.20292	16.83709	26.31084	130.2299	74.48762
#1	3.557466	3.733539	4.873330	15.08716	17.64903	-8.18796	1.391735
#2	3.308806	.4577835	7.552203	20.67398	11.14926	.0256680	6.699286
#3	4.316302	1.971685	7.545042	16.37263	11.85808	-1.78069	2.915404
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	27.50959	13.80888	24.55072	26.89705	24.41465	3077.289
SDEV	.59385	2.39172	.72763	4.79386	.87471	36.013
%RSD	2.158693	17.32015	2.963802	17.82300	3.582732	1.170285
#1	28.16315	15.04802	25.37947	24.01964	25.42384	3036.600
#2	27.36253	15.32677	24.01663	24.24044	23.94564	3090.200
#3	27.00309	11.05185	24.25606	32.43105	23.87446	3105.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-05RE1 OPERATOR:
RUN TIME: 03/22/11 16:31:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.743539	94.30031	99.51124	2.302453	2517.501	2.370023	10.35207
SDEV	.161806	2.15256	.32921	.030232	851.867	.096150	.17604
%RSD	5.897702	2.282668	.3308247	1.313013	33.83782	4.056922	1.700526
#1	2.811805	96.76852	99.88391	2.327162	3384.530	2.290270	10.24175
#2	2.860025	92.81231	99.38980	2.268743	2486.320	2.476791	10.55509
#3	2.558788	93.32009	99.26000	2.311455	1681.651	2.343009	10.25938
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.878521	2.336775	96.44385	1982.863	2499.905	4.736763	2654.587
SDEV	.267842	.278528	3.39299	12.525	6.887	.062348	87.155
%RSD	5.490222	11.91935	3.518098	.6316621	.2754936	1.316256	3.283198
#1	4.750125	2.611307	100.3263	1995.721	2507.178	4.764206	2755.164
#2	4.699049	2.344603	94.04751	1982.169	2499.054	4.665401	2607.341
#3	5.186389	2.054416	94.95770	1970.700	2493.483	4.780682	2601.256
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.510029	15.68884	10.06463	13.26508	5.393167	.2406310	14.86513
SDEV	.407901	2.15248	.21411	.08598	.371875	3.080422	.84740
%RSD	6.265731	13.71979	2.127327	.6481352	6.895293	1280.143	5.700593
#1	6.937974	14.62606	9.926982	13.22343	5.603893	-.429925	14.03429
#2	6.466439	14.27447	9.955602	13.20787	5.611820	3.601098	15.72817
#3	6.125673	18.16601	10.31131	13.36395	4.963788	-2.44928	14.83291
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.064494	3.708244	6.229918	15.52276	14.53285	.6461844	.0342051
SDEV	1.812492	.447942	.348641	1.20972	1.61687	1.739800	3.820235
%RSD	59.14491	12.07962	5.596229	7.793189	11.12561	269.2420	11168.60
#1	3.473146	4.078570	6.360951	15.34218	13.37736	-.414916	-.441383
#2	1.082563	3.835803	6.494058	14.41348	16.38059	2.654048	4.069967
#3	4.637773	3.210358	5.834746	16.81261	13.84060	-.300579	-3.52597
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	25.68930	8.216513	23.87974	25.99147	23.99101	3079.489
SDEV	1.05385	2.839900	.66385	2.16855	.15618	7.686
%RSD	4.102294	34.56332	2.779970	8.343311	.6509743	.2495723
#1	24.91677	9.106023	23.11660	28.20289	24.13779	3070.666
#2	25.26132	5.038333	24.19885	23.86850	23.82689	3084.733
#3	26.88981	10.50518	24.32378	25.90301	24.00836	3083.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-06RE1 OPERATOR:
RUN TIME: 03/22/11 16:38:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.140637	99.35220	99.31135	2.330737	2249.228	2.347972	10.36455
SDEV	.321975	1.27411	.95380	.031689	1005.207	.099952	.21980
%RSD	10.25191	1.282413	.9604142	1.359613	44.69119	4.256969	2.120678
#1	3.295365	99.29795	100.1435	2.355512	3409.935	2.263810	10.55473
#2	2.770506	98.10609	98.27046	2.295029	1665.581	2.321657	10.12391
#3	3.356040	100.6526	99.52009	2.341669	1672.168	2.458450	10.41500
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.125937	2.344635	98.53174	1981.620	2500.027	4.781086	2658.117
SDEV	.498226	.290310	3.63043	22.406	21.483	.132041	99.782
%RSD	9.719703	12.38189	3.684530	1.130690	.8593117	2.761735	3.753871
#1	5.535722	2.323787	101.1150	2000.721	2518.244	4.897919	2682.904
#2	4.571350	2.065311	94.38089	1956.957	2476.337	4.637833	2548.278
#3	5.270738	2.644807	100.0994	1987.183	2505.500	4.807507	2743.170
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.244303	14.48792	10.25791	13.24953	5.781520	1.197535	15.10022
SDEV	.281274	3.97044	.34531	.10455	.547763	1.896821	.73078
%RSD	4.504495	27.40519	3.366304	.7890881	9.474379	158.3938	4.839505
#1	6.484220	10.50341	10.60267	13.33170	5.616211	-.986371	14.50077
#2	5.934753	18.44414	9.912051	13.13185	6.392899	2.433862	14.88561
#3	6.313936	14.51620	10.25901	13.28504	5.335450	2.145114	15.91427
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.904828	3.572636	6.879869	16.25230	14.52126	-1.01769	2.299544
SDEV	1.086342	.994331	.440675	1.21773	.78815	1.72879	2.788094
%RSD	22.14841	27.83186	6.405277	7.492663	5.427529	169.8740	121.2455
#1	5.785771	2.802533	7.016447	16.23610	13.63091	-1.29870	-.834435
#2	5.237721	4.695184	7.236084	15.04274	14.80325	.8343911	3.228488
#3	3.690992	3.220192	6.387075	17.47804	15.12962	-2.58877	4.504578
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	27.12448	11.14292	24.20324	29.02836	23.84874	3086.711
SDEV	1.86361	.49432	.86165	3.66467	.44073	34.108
%RSD	6.870595	4.436190	3.560071	12.62445	1.848016	1.104986
#1	28.90642	11.63443	24.60684	30.60383	24.20522	3048.133
#2	25.18873	10.64583	23.21387	24.83942	23.35597	3112.867
#3	27.27829	11.14851	24.78902	31.64184	23.98503	3099.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-07RE1 OPERATOR:
RUN TIME: 03/22/11 16:45:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.535039	84.81027	91.37635	2.124345	2762.768	2.153468	9.466344
SDEV	.631732	9.37494	2.57914	.051890	1186.810	.169584	.391627
%RSD	24.92000	11.05401	2.822542	2.442656	42.95728	7.874918	4.137041
#1	2.185458	89.21828	93.02578	2.152756	1688.529	2.201067	9.628033
#2	3.264293	91.16877	92.69907	2.155826	2562.984	2.294166	9.751237
#3	2.155367	74.04376	88.40420	2.064453	4036.790	1.965171	9.019762
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.773802	1.955344	90.95969	1811.300	2300.114	4.271787	2437.063
SDEV	.121589	.507574	6.96143	49.085	63.941	.150547	89.931
%RSD	2.547002	25.95830	7.653309	2.709955	2.779894	3.524225	3.690152
#1	4.890561	2.110746	87.12326	1840.358	2338.002	4.350803	2435.788
#2	4.782944	2.367050	98.99533	1838.914	2336.050	4.366376	2527.626
#3	4.647900	1.388236	86.76050	1754.627	2226.291	4.098183	2347.776
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.606964	14.13857	9.412982	11.87132	4.651413	.5684669	13.49762
SDEV	.438705	1.00714	.398322	.41210	.408297	2.028250	1.84484
%RSD	9.522657	7.123372	4.231625	3.471400	8.777920	356.7930	13.66786
#1	4.356359	15.21341	9.704478	12.06620	5.046273	2.621988	13.25233
#2	5.113528	13.21661	9.575345	12.14984	4.230889	.5169436	15.45283
#3	4.351005	13.98568	8.959122	11.39792	4.677078	-1.43353	11.78770
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.825026	1.879185	6.031053	14.23674	13.12471	-.931007	1.313173
SDEV	1.273619	1.593066	.303996	1.09925	3.18793	2.195003	3.948307
%RSD	45.08345	84.77428	5.040511	7.721193	24.28956	235.7665	300.6693
#1	1.387308	3.670777	5.728532	13.47973	13.13484	-1.87032	4.860812
#2	3.275873	.6221300	6.028126	13.73289	16.30756	-2.50005	2.019235
#3	3.811898	1.344649	6.336503	15.49760	9.931720	1.577352	-2.94053
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	22.01815	9.828506	22.06173	23.62944	21.07767	3116.089
SDEV	1.71265	.535892	.41070	5.17075	.98815	64.484
%RSD	7.778376	5.452429	1.861575	21.88266	4.688129	2.069386
#1	23.82724	9.491560	22.19917	19.69518	21.68840	3072.266
#2	21.80539	10.44646	22.38609	29.48603	21.60700	3085.867
#3	20.42181	9.547499	21.59995	21.70712	19.93763	3190.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-08RE1 OPERATOR:
RUN TIME: 03/22/11 16:52:54
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.625031	90.37927	92.39964	2.167131	1965.971	2.152619	9.607133
SDEV	.548231	3.66111	1.19689	.030048	521.247	.035830	.209814
%RSD	20.88473	4.050835	1.295339	1.386522	26.51347	1.664500	2.183943
#1	3.072057	90.88889	93.05187	2.195518	2567.538	2.132925	9.673596
#2	2.013339	93.75887	93.12875	2.170215	1682.087	2.130955	9.775665
#3	2.789696	86.49004	91.01831	2.135660	1648.286	2.193977	9.372136
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.999891	2.196036	88.74393	1831.375	2319.612	4.339293	2453.575
SDEV	.146476	.143246	5.22356	23.294	29.825	.067530	77.586
%RSD	2.929574	6.522914	5.886110	1.271924	1.285791	1.556249	3.162153
#1	5.133864	2.300171	94.26764	1848.260	2337.343	4.338100	2534.683
#2	4.843498	2.032675	83.88396	1841.064	2336.315	4.407412	2445.970
#3	5.022312	2.255263	88.08019	1804.800	2285.177	4.272367	2380.072
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.039488	14.92820	9.592295	12.06077	4.526229	-.326780	14.37341
SDEV	.504002	1.04199	.080192	.21279	.760146	2.144572	.53862
%RSD	10.00105	6.979996	.8360030	1.764302	16.79424	656.2740	3.747307
#1	5.594031	13.83321	9.646390	11.93087	5.141085	-1.63851	14.98890
#2	4.609314	15.90754	9.630331	12.30634	4.761282	-1.48990	14.14307
#3	4.915119	15.04385	9.500162	11.94509	3.676320	2.148072	13.98827
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.237017	1.002753	6.280912	15.43176	13.84111	-5.88114	2.442314
SDEV	1.357248	1.841776	.220350	1.67722	1.57834	5.05426	.694211
%RSD	41.92899	183.6719	3.508244	10.86866	11.40327	85.94010	28.42430
#1	3.644352	2.476556	6.466906	13.66864	15.64408	-9.06911	2.067272
#2	4.343953	1.593657	6.338279	17.00733	12.70914	-8.52073	2.016292
#3	1.722746	-1.06195	6.037553	15.61930	13.17011	-.053580	3.243379
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	24.96167	12.80849	22.29416	26.64686	22.24279	3103.422
SDEV	1.00080	2.54505	.41561	1.65291	.29202	37.158
%RSD	4.009331	19.87002	1.864196	6.203022	1.312862	1.197330
#1	26.06959	11.12529	22.13410	27.88071	22.30263	3080.000
#2	24.12316	11.56385	21.98238	24.76886	22.50024	3084.000
#3	24.69225	15.73633	22.76600	27.29103	21.92548	3146.266
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-01RE2 OPERATOR:
RUN TIME: 03/22/11 16:59:53
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.138493	37.09570	36.75999	.7984970	1428.622	.8772672	4.036891
SDEV	.250526	2.44683	.42952	.0230392	476.777	.0283400	.430039
%RSD	22.00502	6.595991	1.168436	2.885321	33.37321	3.230488	10.65272
#1	1.313322	39.46538	36.61545	.8229742	1688.303	.9098043	4.161819
#2	.8514811	34.57841	36.42139	.7772332	878.3763	.8640251	3.558220
#3	1.250676	37.24332	37.24313	.7952836	1719.188	.8579723	4.390633
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.136181	.5254983	36.14506	672.3062	933.0108	1.567314	1051.827
SDEV	.228333	.1725407	6.03727	12.7805	11.6494	.024799	71.976
%RSD	10.68884	32.83374	16.70290	1.900993	1.248585	1.582282	6.842996
#1	2.392583	.6658354	41.95403	678.0825	933.7726	1.558483	1125.450
#2	1.954786	.3328576	29.90283	657.6572	920.9991	1.548139	981.6182
#3	2.061175	.5778018	36.57832	681.1788	944.2606	1.595320	1048.413
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.333004	6.332684	3.845527	4.724571	2.514081	-.310004	5.259779
SDEV	.535284	1.571153	.182036	.084916	.082743	2.765521	1.146688
%RSD	22.94397	24.81021	4.733695	1.797317	3.291164	892.0917	21.80107
#1	2.951062	8.059737	4.040176	4.792899	2.605077	-3.49089	6.568831
#2	2.018318	5.950287	3.679494	4.629505	2.443362	1.036345	4.432977
#3	2.029633	4.988028	3.816911	4.751311	2.493803	1.524533	4.777527
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.041445	-.959066	4.243922	5.852225	4.960034	.4131339	-.674997
SDEV	.854052	1.467895	.610838	2.198125	.788872	7.596872	2.607239
%RSD	41.83566	153.0546	14.39324	37.56050	15.90456	1838.840	386.2596
#1	2.135237	.7200356	3.542237	8.337480	5.681884	-5.99408	-2.24512
#2	2.844729	-1.99906	4.656825	5.056119	4.117946	-1.57201	2.334639
#3	1.144368	-1.59817	4.532704	4.163076	5.080274	8.805494	-2.11451
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.784424	5.647145	8.259585	13.66278	7.887377	3070.533
SDEV	1.402802	.250436	.290785	3.32341	.230070	36.544
%RSD	20.67680	4.434733	3.520572	24.32456	2.916942	1.190157
#1	8.395660	5.875901	7.991514	16.82353	7.631133	3083.533
#2	5.834614	5.379564	8.218524	10.19765	7.954783	3098.800
#3	6.122998	5.685970	8.568718	13.96715	8.076216	3029.266
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-02RE2 OPERATOR:
RUN TIME: 03/22/11 17:06:53
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9987087	31.96968	36.60521	.7994735	1133.292	.7869903	4.105687
SDEV	.4505104	2.65255	.15574	.0381635	981.058	.0618140	.196750
%RSD	45.10930	8.297082	.4254458	4.773580	86.56712	7.854480	4.792143
#1	1.058466	33.20257	36.56736	.8374997	1695.949	.8361130	4.039792
#2	1.416358	33.78141	36.47189	.7997464	.4718334	.8072753	3.950342
#3	.5213018	28.92507	36.77638	.7611742	1703.456	.7175826	4.326927
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.936028	.6369785	32.82775	666.6661	927.7750	1.555125	1051.056
SDEV	.297697	.4472082	4.38635	2.7491	2.1379	.079158	58.757
%RSD	15.37669	70.20774	13.36172	.4123627	.2304316	5.090123	5.590294
#1	2.003165	.4666673	33.11097	665.7817	926.9753	1.604767	1040.002
#2	2.194423	1.144320	37.06563	664.4681	926.1522	1.596770	1114.555
#3	1.610495	.2999484	28.30665	669.7486	930.1975	1.463838	998.6108
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.083338	5.386576	3.844240	4.664477	2.546892	-1.93762	5.342633
SDEV	.292277	1.176763	.203385	.118801	.733702	2.64559	.389513
%RSD	14.02926	21.84622	5.290655	2.546936	28.80774	136.5382	7.290649
#1	1.793884	4.937315	3.895742	4.632971	2.490537	-2.60868	4.901288
#2	2.077772	6.721790	4.016922	4.564604	3.307146	.9788801	5.638346
#3	2.378358	4.500624	3.620054	4.795855	1.842993	-4.18305	5.488265
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0599920	-.708009	4.167771	6.573271	4.724270	-1.73477	-2.04285
SDEV	1.048558	.436964	.902881	2.374287	1.307629	3.82482	2.61069
%RSD	1747.830	61.71729	21.66340	36.12032	27.67897	220.4797	127.7963
#1	-.615512	-.544052	4.001096	5.974812	4.361365	-4.94675	-1.44537
#2	-.472453	-.376737	5.142376	4.555472	6.175022	2.496412	.2173021
#3	1.267941	-1.20324	3.359841	9.189529	3.636424	-2.75398	-4.90050
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	9.332691	4.983042	8.041638	11.01730	7.774259	3069.666
SDEV	1.386302	.879490	.307830	6.55353	.615738	12.475
%RSD	14.85426	17.64967	3.827946	59.48396	7.920216	.4064033
#1	7.737789	5.370384	7.815859	13.31986	8.283091	3070.200
#2	10.01162	5.602376	8.392281	16.10880	7.949903	3081.867
#3	10.24866	3.976365	7.916774	3.623234	7.089784	3056.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

ANALYSIS REPORT QC STANDARD 03/22/11 05:20:51 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/22/11 17:13:54
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	92.93449	48200.93	949.1834	944.7598	47490.24	938.5112	937.4490
SDEV	.36467	218.64	4.4546	4.1506	1343.59	4.8970	4.1547
%RSD	.3923992	.4536081	.4693110	.4393278	2.829197	.5217809	.4431921
#1	92.78751	48239.06	951.3433	946.5311	46816.94	939.7675	938.5561
#2	92.66624	47965.73	944.0606	940.0175	49037.36	933.1084	932.8530
#3	93.34972	48398.00	952.1462	947.7309	46616.42	942.6575	940.9381
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	953.6906	957.0154	23717.52	47198.13	47635.30	936.6616	48945.12
SDEV	4.6195	3.0145	116.96	172.53	225.11	4.6286	207.68
%RSD	.4843793	.3149845	.4931354	.3655360	.4725644	.4941611	.4243129
#1	955.2090	954.5525	23741.32	47290.22	47709.22	938.9965	49080.93
#2	948.5031	956.1168	23590.49	46999.10	47382.52	931.3306	48706.06
#3	957.3598	960.3770	23820.75	47305.08	47814.15	939.6577	49048.39
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	949.8506	953.3348	957.4332	1018.204	945.4368	960.7017	990.3622
SDEV	4.7531	2.5304	4.6646	4.700	3.0647	2.4725	1.4483
%RSD	.5004029	.2654295	.4872008	.4616039	.3241578	.2573592	.1462405
#1	952.5721	950.7760	959.3171	1019.389	944.1334	958.3293	990.0602
#2	944.3622	953.3925	952.1213	1013.025	943.2392	960.5123	991.9377
#3	952.6174	955.8359	960.8613	1022.198	948.9377	963.2634	989.0887
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	953.0214	942.8639	946.7160	985.1892	992.9413	957.5447	962.2739
SDEV	3.5484	1.5274	5.3193	5.2443	4.7374	5.6071	6.4572
%RSD	.3723353	.1619959	.5618723	.5323173	.4771057	.5855703	.6710307
#1	955.4533	944.0221	944.1840	987.9775	991.0964	963.6447	955.6717
#2	948.9496	943.4366	943.1357	979.1397	998.3235	956.3740	962.5745
#3	954.6612	941.1329	952.8284	988.4503	989.4039	952.6154	968.5755
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	958.5702	948.3160	969.0510	963.2619	993.7658	3081.000
SDEV	3.9253	3.9034	4.1605	4.3060	3.9379	13.067
%RSD	.4094945	.4116189	.4293384	.4470187	.3962623	.4241042
#1	956.7222	950.2185	966.2919	964.1199	993.4144	3067.933
#2	955.9100	943.8261	967.0246	958.5915	990.0153	3094.066
#3	963.0784	950.9035	973.8365	967.0743	997.8676	3081.000
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/22/11 17:20:55
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6446832	6.600633	-.437851	-.005038	4.482619	-.009147	.6409643
SDEV	.0440802	4.332745	.016091	.007217	.033407	.152278	.1686093
%RSD	6.837495	65.64135	3.675039	143.2388	.7452598	1664.870	26.30557
#1	.6194173	10.74193	-.435390	.0028415	4.445282	-.039449	.8031889
#2	.6190501	6.961025	-.455031	-.011326	4.509684	-.143995	.6530801
#3	.6955822	2.098948	-.423132	-.006630	4.492892	.1560045	.4666239
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1587751	-.293269	2.830719	8.038909	8.196281	-.218498	109.9175
SDEV	.1433379	.203885	7.138408	1.678722	1.267109	.029937	47.5647
%RSD	90.27731	69.52161	252.1765	20.88246	15.45956	13.70137	43.27312
#1	.3115445	-.224178	10.91701	8.801819	8.744158	-.211159	164.4169
#2	.0272371	-.522722	-2.59656	6.114216	6.747423	-.192913	76.77158
#3	.1375438	-.132907	.1717056	9.200692	9.097263	-.251422	88.56402
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2935788	1.800084	.2237730	.0406127	.7163541	-4.59589	-.874911
SDEV	.1450488	3.684831	.1321136	.0649467	1.071853	2.35250	3.314509
%RSD	49.40711	204.7032	59.03914	159.9174	149.6261	51.18706	378.8395
#1	.3620620	5.911909	.2066082	.0284867	1.863333	Q-7.29414	2.869740
#2	.1269677	.6916179	.1010807	.1107677	.5456026	-2.97503	-3.43219
#3	.3917068	-1.20327	.3636301	-.017416	-.259873	-3.51849	-2.06229
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.29191	-1.65546	1.896566	1.528645	-2.07881	-3.93566	-4.92942
SDEV	1.09538	1.68619	1.507969	.977537	5.12321	1.63278	4.12912
%RSD	84.78720	101.8560	79.51051	63.94795	246.4497	41.48692	83.76481
#1	-2.33406	-.299302	2.939090	1.453640	3.572790	-2.49228	-9.69541
#2	-1.39155	-3.54344	2.583125	2.541525	-6.41850	-3.60689	-2.66351
#3	-.150120	-1.12365	.1674840	.5907713	-3.39071	-5.70781	-2.42935
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.179118	1.311703	-.667879	7.428621	-.190306	3106.778
SDEV	.852242	1.897591	.534551	3.042658	.348579	25.121
%RSD	72.27797	144.6662	80.03723	40.95859	183.1674	.8085873
#1	1.028210	1.941168	-.056405	10.37070	.1819258	3090.066
#2	2.096734	-.820633	-1.04655	4.294480	-.509048	3094.600
#3	.4124095	2.814574	-.900676	7.620685	-.243796	3135.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-03RE2 OPERATOR:
RUN TIME: 03/22/11 17:27:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.182218	39.76093	37.46162	.8389620	1727.926	.7298084	4.084436
SDEV	.280063	9.44638	1.98331	.0771335	69.145	.1248466	.227763
%RSD	23.68963	23.75793	5.294254	9.193920	4.001595	17.10676	5.576365
#1	1.332679	32.57823	36.34520	.7511838	1689.984	.7069454	3.824431
#2	1.354892	36.24309	36.28816	.8697814	1686.059	.8645064	4.180176
#3	.8590834	50.46148	39.75152	.8959207	1807.735	.6179733	4.248702
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.938621	.7977373	41.61772	678.5490	949.5778	1.637614	986.2287
SDEV	.275519	.3007011	2.36832	30.4458	47.8905	.121515	75.5938
%RSD	14.21212	37.69425	5.690653	4.486896	5.043343	7.420241	7.664935
#1	1.625233	.8673618	43.25533	650.5348	921.0339	1.504099	949.9661
#2	2.047858	1.057519	42.69566	674.1619	922.8323	1.667007	1073.122
#3	2.142771	.4683313	38.90218	710.9504	1004.867	1.741737	935.5982
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.266931	1.055245	3.899207	4.861181	2.165297	-.489941	4.660574
SDEV	.388121	1.941478	.228638	.362517	.218549	1.144807	.800684
%RSD	17.12098	183.9836	5.863702	7.457389	10.09327	233.6622	17.17994
#1	1.887431	3.283787	3.676004	4.613916	2.238992	.5396153	4.741871
#2	2.663133	.1520072	4.132917	4.692300	2.337473	-.286671	3.822344
#3	2.250230	-.270060	3.888700	5.277326	1.919427	-1.72277	5.417509
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7391475	-1.00805	3.745209	6.664179	3.656234	-3.01354	.7659255
SDEV	3.000658	2.35999	1.101419	1.294875	1.678685	4.44624	1.640721
%RSD	405.9620	234.1150	29.40875	19.43038	45.91296	147.5423	214.2142
#1	4.202335	1.708624	2.499333	5.412131	4.403293	2.066638	-.226702
#2	-1.08569	-2.18111	4.589434	7.998005	1.733701	-6.19622	2.659731
#3	-.899205	-2.55166	4.146861	6.582402	4.831708	-4.91103	-.135252
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	9.168872	6.108773	8.376860	13.42137	8.644121	3017.244
SDEV	3.615555	1.777620	.644605	4.45174	.325848	116.314
%RSD	39.43293	29.09945	7.695062	33.16906	3.769592	3.854969
#1	6.789660	4.266975	7.760332	12.87697	9.010627	3080.800
#2	7.387493	7.814380	8.323965	18.12027	8.387165	3087.933
#3	13.32946	6.244966	9.046282	9.266858	8.534572	2883.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-04RE2 OPERATOR:
RUN TIME: 03/22/11 17:34:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6824217	37.10068	36.47595	.8175497	1679.608	.8369708	3.982195
SDEV	.3599804	3.15063	.70974	.0582190	24.676	.0837954	.232599
%RSD	52.75044	8.492108	1.945789	7.121160	1.469175	10.01174	5.840964
#1	.2809658	34.58949	36.46310	.8472564	1679.078	.8927250	4.021142
#2	.9764811	40.63595	37.19203	.8549227	1704.545	.8775793	4.192862
#3	.7898184	36.07661	35.77271	.7504700	1655.201	.7406082	3.732582
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.142601	.4557514	29.84431	667.4208	923.8303	1.535330	987.5441
SDEV	.096911	.1659308	2.17548	11.8509	17.0837	.043869	121.3416
%RSD	4.523039	36.40818	7.289420	1.775624	1.849227	2.857281	12.28721
#1	2.038858	.2897722	27.80908	674.1652	922.8107	1.584359	1040.353
#2	2.158143	.6216337	29.58675	674.3601	941.4010	1.521847	1073.533
#3	2.230801	.4558483	32.13710	653.7370	907.2792	1.499786	848.7465
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.484838	4.230568	3.826083	4.689607	1.724666	-2.44610	4.900973
SDEV	.273025	2.812282	.187971	.207969	.560315	2.01444	.694819
%RSD	10.98764	66.47529	4.912884	4.434686	32.48832	82.35341	14.17717
#1	2.498888	1.638779	3.697391	4.858227	1.272640	-3.10938	4.098987
#2	2.205059	7.220835	4.041795	4.753374	2.351562	-.183644	5.282295
#3	2.750567	3.832088	3.739061	4.457220	1.549796	-4.04526	5.321638
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.439560	-.288547	2.725345	4.744952	4.974940	-.378703	-3.48217
SDEV	.292951	1.129404	.517108	.942528	.576620	4.050359	2.16508
%RSD	12.00837	391.4106	18.97403	19.86381	11.59049	1069.535	62.17632
#1	2.684130	-.453863	2.130181	3.667505	4.310478	1.901903	-5.61519
#2	2.519661	.9144038	3.064579	5.150670	5.344023	2.017170	-1.28639
#3	2.114890	-1.32618	2.981275	5.416681	5.270319	-5.05518	-3.54493
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	8.962141	4.267058	7.988701	10.25619	7.640837	3100.111
SDEV	2.698991	1.031177	.542521	4.77925	.660736	45.500
%RSD	30.11547	24.16598	6.791105	46.59869	8.647428	1.467696
#1	8.197551	3.076926	7.847001	4.777393	7.052081	3100.266
#2	11.96094	4.893957	8.588011	12.42260	7.514981	3054.533
#3	6.727931	4.830293	7.531091	13.56858	8.355449	3145.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-05RE2 OPERATOR:
RUN TIME: 03/22/11 17:41:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.159744	31.74060	36.18572	.7855327	1408.924	.8043400	4.218488
SDEV	.532619	.74885	.15377	.0025257	460.328	.0911699	.279924
%RSD	45.92561	2.359295	.4249456	.3215219	32.67229	11.33475	6.635657
#1	.6680744	30.96557	36.22746	.7878619	1680.184	.8868825	4.520235
#2	1.085611	32.46020	36.01539	.7828482	1669.166	.7064825	4.167962
#3	1.725546	31.79602	36.31431	.7858880	877.4211	.8196548	3.967268
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.128595	.6778940	38.16141	666.6915	915.3055	1.549453	1067.475
SDEV	.190609	.3238490	6.84237	21.7107	2.9294	.035179	134.471
%RSD	8.954708	47.77281	17.93007	3.256490	.3200487	2.270434	12.59707
#1	1.927806	.3229506	32.69807	691.0873	915.6129	1.530680	1221.013
#2	2.307059	.9572949	45.83595	649.4946	912.2344	1.590037	970.6583
#3	2.150919	.7534364	35.95020	659.4926	918.0690	1.527643	1010.753
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.490746	5.105106	4.025894	4.507136	2.379788	-.076979	6.028384
SDEV	.265854	6.253258	.263584	.089179	.338378	.159215	1.749791
%RSD	10.67366	122.4903	6.547214	1.978620	14.21885	206.8294	29.02588
#1	2.771311	2.827307	4.312718	4.582459	2.603151	-.056298	4.108757
#2	2.458355	.3100395	3.794303	4.408666	1.990471	.0708850	6.442263
#3	2.242572	12.17797	3.970660	4.530285	2.545742	-.245523	7.534132
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9908487	.3905313	3.369006	4.912802	6.581420	-.236661	-.001176
SDEV	.4319479	2.891729	.955615	2.739229	1.400181	5.413286	2.837688
%RSD	43.59374	740.4602	28.36489	55.75697	21.27475	2287.354	241328.7
#1	1.151437	2.858606	2.471685	1.750007	5.282435	4.630343	-2.40004
#2	.5016075	-2.79121	4.373824	6.524596	6.397255	-6.06691	3.131278
#3	1.319501	1.104199	3.261510	6.463802	8.064570	.7265795	-.734770
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	9.076336	5.016531	7.995421	13.69924	8.234611	3106.266
SDEV	2.704400	1.497218	.366532	3.63016	.181769	11.390
%RSD	29.79616	29.84568	4.584272	26.49902	2.207376	.3666655
#1	12.02311	4.711482	8.030874	9.858116	8.024778	3097.733
#2	6.707866	3.695328	7.612451	17.07322	8.343739	3119.200
#3	8.498032	6.642781	8.342938	14.16639	8.335314	3101.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-06RE2 OPERATOR:
RUN TIME: 03/22/11 17:48:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.190352	27.49247	35.82830	.7680126	1671.369	.7104343	3.801629
SDEV	.069504	4.43147	.67361	.0096087	27.039	.1781683	.227842
%RSD	5.838990	16.11884	1.880097	1.251116	1.617773	25.07879	5.993261
#1	1.154571	30.56570	36.28537	.7778687	1690.787	.9018658	3.989089
#2	1.270457	22.41265	35.05473	.7586721	1640.486	.6799825	3.867760
#3	1.146026	29.49906	36.14480	.7674969	1682.832	.5494544	3.548037
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.907464	.7588388	35.06262	652.8444	904.3499	1.518933	960.1265
SDEV	.160209	.0932642	2.99557	19.0273	16.8056	.021566	34.1559
%RSD	8.399062	12.29038	8.543494	2.914524	1.858303	1.419819	3.557442
#1	2.082243	.6544145	32.16730	674.8151	918.4481	1.542551	998.2395
#2	1.767576	.8338517	38.14928	641.7873	885.7527	1.500288	949.8552
#3	1.872572	.7882504	34.87127	641.9307	908.8490	1.513961	932.2849
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.322776	6.490828	3.602464	4.679375	2.679452	-3.76629	4.816761
SDEV	.105165	2.614037	.241302	.218601	.416444	.78660	.835143
%RSD	4.527560	40.27278	6.698238	4.671593	15.54214	20.88516	17.33826
#1	2.332190	8.816322	3.856448	4.896172	2.968167	-3.02785	3.856839
#2	2.422918	3.661574	3.574696	4.459013	2.868125	-4.59351	5.216876
#3	2.213221	6.994588	3.376247	4.682939	2.202065	-3.67752	5.376568
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7252541	-.702308	4.363730	5.558441	4.442570	-6.92024	-2.19559
SDEV	.3374742	1.107269	.757782	3.327971	.550126	3.21848	.91484
%RSD	46.53186	157.6615	17.36547	59.87239	12.38306	46.50825	41.66731
#1	.7941906	-1.57398	5.231884	1.950191	4.804780	-3.20503	-2.94334
#2	1.022937	.5435801	4.024341	6.217668	4.713395	-8.85874	-2.46793
#3	.3586343	-1.07652	3.834966	8.507464	3.809534	-8.69696	-1.17550
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	6.442718	4.248568	7.473074	11.32623	7.456522	3115.489
SDEV	2.398951	2.879539	.736831	2.47931	.515286	50.331
%RSD	37.23507	67.77670	9.859816	21.89002	6.910543	1.615495
#1	8.944074	4.411003	8.112488	14.08164	8.043678	3079.133
#2	6.222757	7.043451	6.667278	10.62143	7.079544	3172.933
#3	4.161323	1.291249	7.639457	9.275629	7.246343	3094.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-07RE2 OPERATOR:
RUN TIME: 03/22/11 17:55:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5102144	36.84960	36.36598	.8106589	557.6725	.8058928	4.001355
SDEV	.1749659	1.66036	.40607	.0067664	964.9223	.1441126	.259435
%RSD	34.29262	4.505764	1.116630	.8346765	173.0267	17.88235	6.483676
#1	.6523100	35.48579	36.14738	.8130285	.5977375	.9133398	4.297892
#2	.3147894	36.36456	36.11604	.8030264	1671.869	.6421248	3.816267
#3	.5635440	38.69847	36.83453	.8159217	.5509245	.8622137	3.889904
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.873932	.5372969	33.25070	664.4981	919.4091	1.528020	983.7750
SDEV	.196253	.1308244	4.49800	6.3070	12.7422	.016855	56.3506
%RSD	10.47278	24.34862	13.52753	.9491390	1.385912	1.103066	5.727994
#1	2.095684	.6342929	35.54652	667.3112	913.9325	1.547422	1005.438
#2	1.803488	.5890929	28.06808	657.2740	910.3207	1.519657	919.8077
#3	1.722625	.3885051	36.13750	668.9091	933.9739	1.516982	1026.080
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.282673	4.080923	3.726426	4.703505	3.266566	-5.57400	5.148222
SDEV	.156047	1.962377	.183380	.174611	.546319	1.82980	1.887844
%RSD	6.836133	48.08660	4.921079	3.712369	16.72456	32.82750	36.66983
#1	2.430317	2.081077	3.733326	4.532955	2.867041	-7.57724	4.264423
#2	2.119400	4.158139	3.539693	4.695646	3.889115	-3.99062	7.315847
#3	2.298302	6.003552	3.906259	4.881913	3.043541	-5.15412	3.864395
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9156648	1.381873	4.203069	5.800535	4.818617	-8.55977	-4.08728
SDEV	1.810519	.182381	.837979	1.889979	2.253860	1.12235	3.29268
%RSD	197.7273	13.19811	19.93731	32.58284	46.77400	13.11196	80.55911
#1	2.102178	1.563476	3.513428	3.773720	4.505481	-7.44897	-7.64521
#2	-1.16827	1.383422	5.135687	7.514681	7.212671	-9.69333	-1.14745
#3	1.813086	1.198723	3.960093	6.113205	2.737699	-8.53701	-3.46919
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	8.706716	5.684549	8.104762	8.519113	7.722129	3092.222
SDEV	.604421	1.560564	.608534	3.387416	.389972	27.347
%RSD	6.942009	27.45274	7.508357	39.76255	5.050060	.8843726
#1	9.037616	5.520412	7.440751	12.40419	8.168909	3099.867
#2	8.009097	4.212540	8.635842	6.183882	7.547415	3114.933
#3	9.073435	7.320694	8.237694	6.969263	7.450064	3061.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103057-08RE2 OPERATOR:
RUN TIME: 03/22/11 18:02:56
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.560258	39.31629	36.60246	.8321207	1687.912	.8363264	4.231179
SDEV	.378580	1.24270	.40168	.0188065	12.992	.0593763	.179981
%RSD	24.26394	3.160787	1.097423	2.260068	.7697101	7.099653	4.253696
#1	1.691742	39.18557	36.69649	.8113239	1689.312	.7719889	4.353465
#2	1.855565	38.14411	36.16211	.8371055	1674.277	.8479757	4.024509
#3	1.133466	40.61919	36.94879	.8479326	1700.148	.8890147	4.315562
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.230246	.5412323	38.10050	668.5137	924.8821	1.576196	1067.620
SDEV	.070142	.1786593	1.60262	8.1859	9.0939	.015701	87.360
%RSD	3.145022	33.00973	4.206290	1.224489	.9832464	.9961476	8.182675
#1	2.308591	.4668464	36.62571	676.3890	926.6550	1.559726	1153.441
#2	2.173288	.7450662	37.86985	660.0491	915.0323	1.577866	978.7990
#3	2.208858	.4117843	39.80595	669.1029	932.9589	1.590995	1070.620
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.392366	3.528682	3.883784	4.761608	2.586814	-3.92469	5.122273
SDEV	.283661	1.044783	.220450	.020075	.570921	2.15877	1.787650
%RSD	11.85693	29.60831	5.676173	.4216062	22.07043	55.00497	34.89954
#1	2.088258	4.626156	4.133940	4.752685	1.927856	-3.45647	3.264489
#2	2.649787	3.413805	3.799504	4.747541	2.899525	-6.27914	5.271955
#3	2.439055	2.546085	3.717906	4.784598	2.933062	-2.03845	6.830376
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.083965	-.990640	4.368420	7.674315	3.844219	-4.09536	-3.84343
SDEV	1.391641	.741360	1.192905	1.088067	2.841643	3.38148	1.91969
%RSD	1657.403	74.83650	27.30748	14.17804	73.91989	82.56874	49.94735
#1	1.378375	-.231104	3.001273	8.442073	.6756271	-1.64209	-4.36625
#2	-1.39206	-1.71238	5.197617	6.429157	4.690308	-7.95268	-5.44754
#3	-.238215	-1.02844	4.906370	8.151714	6.166723	-2.69130	-1.71648
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	5.578107	4.302479	8.021632	15.77844	8.543639	3084.578
SDEV	1.024417	1.001772	.453974	1.30601	.382099	23.568
%RSD	18.36496	23.28361	5.659372	8.277168	4.472316	.7640627
#1	6.634673	5.051888	7.925447	15.59104	8.787863	3081.333
#2	5.510458	3.164664	7.623458	17.16802	8.739749	3109.600
#3	4.589192	4.690885	8.515991	14.57625	8.103305	3062.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: IBL OPERATOR:
RUN TIME: 03/22/11 18:09:57
COMMENT: SDG: CLIENTID: 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0743681	-3.98053	-.671170	-.090180	4.928943	-.256585	.1130498
SDEV	.3186863	1.21277	.034383	.013076	.201693	.071390	.1694099
%RSD	428.5258	30.46764	5.122795	14.50004	4.092006	27.82328	149.8543
#1	.4317872	-2.66868	-.678435	-.076828	4.838829	-.297298	.1827492
#2	-.180168	-5.06084	-.701340	-.102962	5.159982	-.298305	-.080091
#3	-.028515	-4.21207	-.633736	-.090751	4.788017	-.174153	.2364917
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1140128	-.503786	-3.19049	-2.45464	-4.20717	-.359067	-47.7219
SDEV	.0506149	.365626	2.93702	4.48829	1.21877	.032014	106.4080
%RSD	44.39404	72.57563	92.05555	182.8489	28.96895	8.915932	222.9750
#1	.1724372	-.110941	.0010467	2.324824	-3.05900	-.339678	8.663233
#2	.0861497	-.834138	-5.77957	-6.57996	-4.07648	-.396019	-170.457
#3	.0834517	-.566279	-3.79294	-3.10879	-5.48601	-.341504	18.62749
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2384358	-1.05888	-.359485	-.081046	.3130089	-3.46197	-.117136
SDEV	.1411708	1.55280	.061070	.021916	1.450413	1.42288	1.696627
%RSD	59.20704	146.6447	16.98829	27.04077	463.3776	41.10029	1448.422
#1	.1214918	-1.12788	-.374146	-.093690	-1.24169	-3.17880	1.841955
#2	.1985601	.5272603	-.411890	-.093708	1.629693	-5.00513	-1.09294
#3	.3952554	-2.57604	-.292418	-.055740	.5510240	-2.20196	-1.10043
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.24131	-3.68556	2.305332	.5509300	-.454634	-3.82327	-3.28555
SDEV	.91830	.75904	1.807623	2.334997	1.421426	2.60904	.83072
%RSD	40.97167	20.59506	78.41054	423.8282	312.6529	68.24113	25.28406
#1	-1.37672	-4.40350	.3328580	3.190561	1.164678	-3.29641	-3.12407
#2	-2.14197	-2.89119	3.882764	-.292993	-1.49629	-6.65554	-4.18515
#3	-3.20525	-3.76200	2.700374	-1.24478	-1.03229	-1.51786	-2.54742
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.23487	-.926946	-1.47694	1.483417	-1.37995	3070.422
SDEV	1.91737	1.002894	.19582	3.257935	.27023	24.934
%RSD	155.2683	108.1933	13.25827	219.6237	19.58236	.8120726
#1	-3.29853	-.796831	-1.28520	3.931463	-1.30584	3055.266
#2	-.897510	-1.98855	-1.67659	-2.21436	-1.15451	3056.800
#3	.4914214	.0045396	-1.46903	2.733144	-1.67950	3099.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/22/11 18:16:56
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.52125	2.973053	Q-.555701	4.865372	1.734338	4.976292	51.91956
SDEV	.38054	2.491654	.015082	.062939	.269993	.054493	.87860
%RSD	3.616843	83.80792	2.714059	1.293607	15.56749	1.095062	1.692231
#1	10.42379	2.742939	Q-.538674	4.883648	1.494854	4.942493	52.30729
#2	10.19892	5.571782	Q-.567384	4.917150	1.681216	5.039156	52.53759
#3	10.94104	.6044384	Q-.561044	4.795318	2.026943	4.947226	50.91379
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.55772	25.20217	-.095629	4.106070	-.675896	14.70955	99.46693
SDEV	.34853	.41405	4.198640	6.840570	.624294	.22582	90.04744
%RSD	3.301225	1.642914	4390.571	166.5965	92.36543	1.535178	90.53002
#1	10.18572	24.74750	-3.51482	10.08484	-1.31768	14.66976	193.0666
#2	10.87671	25.30144	-1.36268	5.587051	-.070706	14.95262	91.88286
#3	10.61074	25.55756	4.590614	-3.35368	-.639298	14.50627	13.45139
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	41.99087	24.77624	51.68686	53.89704	10.89030	33.08220	61.73432
SDEV	.83543	3.35484	1.06789	.87465	.33805	.49053	.55781
%RSD	1.989562	13.54057	2.066070	1.622820	3.104122	1.482749	.9035726
#1	42.16721	21.45157	51.99488	54.08335	11.22153	32.61836	62.37459
#2	42.72406	28.16047	52.56687	54.66354	10.54583	33.59564	61.47494
#3	41.08134	24.71669	50.49881	52.94425	10.90356	33.03260	61.35341
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.34404	7.706672	12.47480	61.30826	61.94308	31.08282	34.07644
SDEV	.09969	1.767407	1.38874	3.47995	1.86306	4.08244	1.38597
%RSD	.9637207	22.93346	11.13233	5.676151	3.007696	13.13408	4.067239
#1	10.38040	5.918011	13.86439	62.08349	62.51598	28.53584	34.65260
#2	10.23127	9.452028	11.08691	57.50607	63.45242	35.79157	32.49532
#3	10.42044	7.749977	12.47311	64.33522	59.86085	28.92106	35.08139
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	52.57072	54.83191	50.06550	56.00560	50.62555	3086.867
SDEV	2.70772	2.52300	1.19382	4.76884	1.49336	37.088
%RSD	5.150629	4.601338	2.384519	8.514935	2.949819	1.201491
#1	54.32995	52.60431	50.69636	53.14619	49.73066	3084.533
#2	53.92954	57.57171	50.81155	53.35981	52.34952	3051.000
#3	49.45267	54.31971	48.68860	61.51080	49.79647	3125.066
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/22/11 18:23:57
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4086315	262019.9	2.423757	.6036082	251973.0	2.814627	5.605495
SDEV	.3502784	7611.8	.167244	.0181663	12069.5	.160554	.166053
%RSD	85.71989	2.905060	6.900205	3.009615	4.789989	5.704288	2.962329
#1	.0243603	270805.3	2.588696	.6245195	265863.7	3.000017	5.764294
#2	.7100682	257399.3	2.254299	.5917199	246007.7	2.721249	5.619159
#3	.4914659	257855.0	2.428278	.5945854	244047.7	2.722614	5.433032
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	45.97562	23.21881	99537.91	14.87505	263873.2	24.76852	878.6209
SDEV	1.36025	.08950	3092.69	6.50194	8288.9	.77971	142.6525
%RSD	2.958629	.3854514	3.107048	43.71036	3.141256	3.147977	16.23596
#1	47.52804	23.11629	103101.9	19.24321	273421.6	25.66876	799.4680
#2	44.99260	23.25884	97560.38	7.402813	258526.7	24.30771	793.0940
#3	45.40624	23.28131	97951.46	17.97912	259671.4	24.32908	1043.301
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.99041	-2.94285	.8739206	35.14151	14.34911	-2.88680	.9420878
SDEV	.69872	3.18132	.2633912	1.14508	1.47278	3.23874	1.677044
%RSD	3.177381	108.1033	30.13904	3.258493	10.26394	112.1911	178.0136
#1	22.77687	-6.61176	1.074191	36.46112	15.18826	-3.82374	-.482870
#2	21.75311	-.949968	.5755588	34.40965	12.64853	-5.55378	2.790171
#3	21.44124	-1.26682	.9720120	34.55377	15.21053	.7171127	.5189617
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0012411	10.90471	16.06357	4.559320	-.867943	-10.6571	.9884065
SDEV	3.532824	1.43823	1.73993	3.613419	.928144	5.0510	2.436858
%RSD	284641.8	13.18906	10.83155	79.25346	106.9361	47.39537	246.5441
#1	3.787986	12.47844	16.53583	.8251884	-1.14017	-13.2139	.8600368
#2	-3.20601	9.658463	14.13625	8.038526	.1658733	-13.9185	-1.38173
#3	-.578256	10.57723	17.51862	4.814248	-1.62953	-4.83896	3.486912
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-7.25154	11.16269	-.550970	-8.62179	-4.18001	2957.977
SDEV	2.83381	1.91275	.361837	1.60868	.19783	75.038
%RSD	39.07867	17.13518	65.67279	18.65829	4.732777	2.536787
#1	-4.35623	12.89547	-.136703	-7.11038	-4.02875	2871.600
#2	-7.37884	9.110252	-.805152	-10.3127	-4.10738	3007.066
#3	-10.0196	11.48234	-.711054	-8.44231	-4.40388	2995.266
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/22/11 18:30:57
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	208.5956	258089.4	521.5010	497.1020	248039.5	1002.669	508.3531
SDEV	.3669	2916.4	6.1064	6.3893	4219.5	12.622	6.2523
%RSD	.1758975	1.130013	1.170930	1.285317	1.701145	1.258791	1.229917
#1	208.2013	260698.8	527.0742	502.6634	251518.9	1013.176	513.7678
#2	208.9270	254941.1	514.9737	490.1229	243346.1	988.6691	501.5102
#3	208.6585	258628.4	522.4550	498.5198	249253.6	1006.163	509.7812
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	552.7078	539.5792	98565.91	12.52152	260935.3	532.0421	857.4294
SDEV	7.3260	1.5215	1248.38	2.95617	3319.5	6.6431	116.2921
%RSD	1.325478	.2819816	1.266548	23.60874	1.272152	1.248604	13.56288
#1	559.4629	537.9180	99639.55	9.639893	263798.9	538.0026	723.1536
#2	544.9204	539.9144	97196.06	12.37767	257297.0	524.8803	925.7351
#3	553.7401	540.9052	98862.13	15.54698	261710.1	533.2434	923.3995
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1043.922	106.5804	516.4677	1053.909	65.64902	51.89389	635.4689
SDEV	12.774	3.0298	6.4061	13.425	.88759	2.22833	9.3784
%RSD	1.223669	2.842695	1.240364	1.273782	1.352022	4.294004	1.475820
#1	1054.264	104.0002	522.3506	1065.756	65.06478	54.45208	643.1211
#2	1029.643	105.8246	509.6428	1039.328	65.21188	50.85400	625.0068
#3	1047.858	109.9166	517.4098	1056.643	66.67039	50.37560	638.2789
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	101.9307	61.32424	67.80206	628.5062	638.9420	44.67499	55.49388
SDEV	2.9339	3.04545	2.75971	8.1406	12.2030	4.61468	3.03759
%RSD	2.878291	4.966144	4.070248	1.295230	1.909878	10.32944	5.473744
#1	105.2953	64.48291	65.34910	626.8428	651.2450	46.66253	58.33695
#2	99.90583	61.08353	67.26695	621.3259	626.8415	47.96287	52.29339
#3	100.5911	58.40630	70.79015	637.3501	638.7395	39.39957	55.85131
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	960.0674	1005.056	973.2487	972.8964	993.0624	2995.155
SDEV	20.5539	11.201	12.4400	16.7048	11.4554	40.404
%RSD	2.140876	1.114443	1.278192	1.717020	1.153542	1.348975
#1	981.3229	1014.632	982.8450	986.7933	1003.216	2956.200
#2	940.2957	992.7389	959.1938	954.3632	980.6437	3036.867
#3	958.5835	1007.796	977.7073	977.5328	995.3273	2992.400
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/22/11 18:37:58
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.37520	48500.15	956.5458	954.4645	48592.13	948.9013	945.8450
SDEV	.31094	111.36	2.6655	2.5972	621.91	2.6501	3.4647
%RSD	.3330041	.2296152	.2786603	.2721118	1.279864	.2792764	.3663097
#1	93.63654	48624.67	959.4378	957.2385	48345.64	951.6940	949.4712
#2	93.03131	48465.68	956.0123	952.0904	49299.51	946.4217	942.5682
#3	93.45776	48410.09	954.1875	954.0648	48131.25	948.5881	945.4955
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	964.8925	953.5639	24053.98	47589.07	48315.09	945.9058	49230.42
SDEV	3.3306	6.9862	90.69	107.50	131.00	2.6321	221.08
%RSD	.3451817	.7326418	.3770417	.2258905	.2711397	.2782661	.4490711
#1	967.7468	949.9144	24147.43	47713.10	48448.56	948.7845	49452.77
#2	961.2331	961.6191	23966.32	47531.32	48186.70	943.6220	49010.64
#3	965.6976	949.1583	24048.19	47522.78	48310.02	945.3110	49227.84
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	960.1805	967.2944	966.8690	1028.288	954.3873	961.7596	998.2784
SDEV	4.1120	2.5398	3.0549	2.938	9.6400	6.6900	6.8469
%RSD	.4282533	.2625672	.3159612	.2857185	1.010075	.6956040	.6858711
#1	964.8010	968.1877	970.1931	1031.678	962.2725	965.6722	1004.234
#2	956.9233	969.2670	964.1845	1026.695	943.6404	954.0348	990.7973
#3	958.8173	964.4287	966.2295	1026.490	957.2488	965.5717	999.8041
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	965.1116	950.2595	956.4427	991.1137	1001.852	953.9628	965.6481
SDEV	2.2758	3.4809	12.8132	14.0297	3.699	2.2944	8.9701
%RSD	.2358029	.3663110	1.339667	1.415552	.3692544	.2405087	.9289236
#1	966.8848	953.8481	966.4733	1000.874	1005.908	956.0347	970.4797
#2	962.5455	946.8974	942.0084	975.0359	998.6627	951.4969	955.2979
#3	965.9047	950.0330	960.8463	997.4313	1000.985	954.3567	971.1667
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	964.6262	960.9594	980.3730	979.2316	1002.616	3050.378
SDEV	5.1073	4.1892	2.2755	10.9870	1.744	24.796
%RSD	.5294564	.4359391	.2321060	1.121999	.1739232	.8128673
#1	969.4062	965.1868	982.1233	983.8640	1004.321	3029.867
#2	965.2275	956.8095	977.8007	966.6870	1002.691	3077.933
#3	959.2449	960.8819	981.1950	987.1437	1000.836	3043.333
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/22/11 18:45:00
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0160700	21.94503	-.336416	.1056160	4.586599	.0361644	.4090079
SDEV	.4818210	4.11025	.152320	.0368643	.903519	.1641195	.5408089
%RSD	2998.265	18.72977	45.27722	34.90411	19.69911	453.8152	132.2245
#1	.5673185	26.68827	-.160582	.1426689	3.591250	.2236117	1.003825
#2	-.324710	19.71636	-.427950	.1052357	5.355027	-.081701	-.053077
#3	-.194398	19.43045	-.420716	.0689432	4.813521	-.033417	.2762756
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2737975	-.322500	1.613320	5.559498	13.09764	-.151348	61.98427
SDEV	.4048277	.309285	9.630950	25.61443	5.37716	.053835	356.3431
%RSD	147.8566	95.90231	596.9646	460.7328	41.05441	35.57055	574.8928
#1	.7386254	.0213808	11.98063	34.51002	19.29265	-.105701	440.0063
#2	-.001474	-.410974	-.085463	-14.1597	9.639116	-.137628	-267.757
#3	.0842407	-.577908	-7.05521	-3.67179	10.36117	-.210716	13.70303
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5287490	.2766428	.0085134	.0873302	.6226590	-2.12411	-.793556
SDEV	.7321386	3.021055	.8936695	.0417632	.5941992	.81297	.270571
%RSD	138.4662	1092.042	10497.26	47.82222	95.42931	38.27324	34.09599
#1	1.355311	3.756127	1.039214	.0391088	1.011469	-3.01712	-1.00889
#2	-.038231	-1.67912	-.463392	.1110014	.9178384	-1.42697	-.489849
#3	.2691668	-1.24708	-.550282	.1118803	-.061330	-1.92825	-.881926
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.104789	-1.70749	1.781839	-.694284	-.847102	-1.55198	-2.41374
SDEV	2.278668	2.15530	1.479780	2.777930	1.052286	.98635	.81381
%RSD	2174.534	126.2261	83.04788	400.1144	124.2219	63.55402	33.71563
#1	2.172179	.1524993	1.436231	-3.76089	.3609658	-2.35256	-3.35298
#2	-2.38515	-4.06950	3.403837	1.653780	-1.56399	-.450134	-1.91859
#3	-.101392	-1.20548	.5054485	.0242594	-1.33829	-1.85325	-1.96965
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.02234	-.821578	-.160031	2.802921	.4725897	3056.444
SDEV	4.38802	2.931906	.901066	7.207996	.9925113	60.701
%RSD	429.2120	356.8629	563.0570	257.1601	210.0154	1.985990
#1	3.910711	2.548287	.8708363	10.95868	1.585903	2986.666
#2	-2.48715	-2.78772	-.553378	.1630835	.1514709	3097.066
#3	-4.49059	-2.22530	-.797551	-2.71300	-.319605	3085.600
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032003-BLK1 OPERATOR:
RUN TIME: 03/22/11 18:52:00
COMMENT: SDG:1103086 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3562328	119.8820	-.455682	-.036641	4.215744	-.193752	.5889141
SDEV	.2884127	9.4151	.071700	.016277	.388996	.113494	.3678092
%RSD	80.96184	7.853642	15.73463	44.42429	9.227229	58.57713	62.45549
#1	.0286825	125.6118	-.495307	-.053440	4.242405	-.218609	.5506760
#2	.4679027	109.0158	-.498824	-.020941	4.590725	-.069889	.2417177
#3	.5721133	125.0185	-.372915	-.035542	3.814103	-.292757	.9743485
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3515895	-.318057	11.88145	11.46848	5.172440	-.215427	182.3516
SDEV	.0656348	.430507	6.92965	9.22606	3.616726	.019566	143.4323
%RSD	18.66803	135.3552	58.32325	80.44710	69.92301	9.082248	78.65702
#1	.4273182	-.599030	7.720250	15.57160	1.726320	-.228701	208.6430
#2	.3163332	-.532715	8.043154	.9026105	4.852488	-.224624	27.59229
#3	.3111170	.1775728	19.88095	17.93123	8.938512	-.192958	310.8194
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5293370	-1.71910	.3030152	.5250457	.4962915	-3.23787	-1.09812
SDEV	.2442395	2.77657	.1605885	.1259908	.8133041	1.21699	1.59062
%RSD	46.14064	161.5129	52.99686	23.99616	163.8763	37.58621	144.8490
#1	.3509323	-3.79633	.3405611	.4568923	.1526561	-2.76667	-2.46066
#2	.8077001	-2.79548	.1269800	.4478120	1.425010	-4.62000	.6497698
#3	.4293789	1.434503	.4415044	.6704328	-.088792	-2.32692	-1.48347
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6574469	-1.18900	1.333798	-.626098	-1.33766	-2.18313	-3.76831
SDEV	1.390110	.58819	1.022584	2.030163	1.37135	3.51224	2.33326
%RSD	211.4406	49.46942	76.66704	324.2566	102.5189	160.8808	61.91788
#1	-.271189	-.944703	.6965579	-2.35274	-2.51850	1.798380	-5.04973
#2	-.012092	-.762322	2.513302	1.610391	.1664443	-3.50567	-5.18007
#3	2.255622	-1.85997	.7915344	-1.13594	-1.66091	-4.84212	-1.07515
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.806304	2.018116	-1.10290	3.906844	-.967995	3142.378
SDEV	1.808672	1.936818	.39658	4.753505	.510007	98.771
%RSD	224.3163	95.97161	35.95747	121.6712	52.68689	3.143199
#1	-2.11966	.0413045	-.663879	.1431273	-1.49669	3077.666
#2	-1.55590	2.100747	-1.43518	2.328696	-.928303	3256.066
#3	1.256651	3.912296	-1.20964	9.248708	-.478994	3093.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032003-BS1 OPERATOR:
RUN TIME: 03/22/11 18:59:00
COMMENT: SDG:1103086 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	493.9450	2638.019	512.9763	493.9337	10129.89	507.7474	511.9775
SDEV	2.7598	9.294	1.3305	1.7369	80.07	1.8592	2.5182
%RSD	.5587316	.3522983	.2593731	.3516468	.7904334	.3661616	.4918544
#1	490.9064	2647.544	514.0798	495.5003	10222.28	509.4130	514.3848
#2	496.2960	2637.536	513.3501	494.2349	10086.55	508.0875	512.1862
#3	494.6327	2628.976	511.4988	492.0659	10080.83	505.7416	509.3614
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	594.0000	2978.000	602.0000	591.0000	12216.00	592.0000	595.0000
LOW	396.0000	1986.000	402.0000	395.0000	8144.000	395.0000	397.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	511.5892	514.2269	5170.123	9151.766	6065.589	499.8036	10745.11
SDEV	2.2258	3.1606	20.354	45.498	21.545	1.7625	248.63
%RSD	.4350660	.6146377	.3936855	.4971531	.3552008	.3526373	2.313922
#1	513.8601	510.5867	5190.938	9180.422	6087.064	501.4231	10966.73
#2	511.4961	516.2736	5169.166	9175.572	6065.730	500.0612	10792.38
#3	509.4115	515.8205	5150.264	9099.304	6043.975	497.9265	10476.24
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	588.0000	6128.000	12009.00	7203.000	594.0000	12046.00
LOW	392.0000	392.0000	4086.000	8007.000	4803.000	396.0000	8031.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	515.1381	1054.806	514.8091	997.2378	1027.958	1012.935	1029.498
SDEV	1.9844	7.634	1.9279	3.2642	6.949	7.324	6.996
%RSD	.3852204	.7237323	.3744965	.3273257	.6759677	.7230083	.6795078
#1	517.3093	1048.439	516.7454	999.7726	1035.925	1019.592	1037.564
#2	514.6869	1063.269	514.7922	998.3864	1024.804	1014.123	1025.847
#3	513.4182	1052.710	512.8896	993.5546	1023.146	1005.090	1025.084
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	590.0000	1232.000	601.0000	1200.000	1195.000	1206.000	1190.000
LOW	394.0000	822.0000	401.0000	800.0000	797.0000	804.0000	794.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1017.796	1026.009	1029.284	1018.490	1034.990	1008.256	1015.267
SDEV	5.276	8.461	6.625	6.958	7.434	6.956	7.520
%RSD	.5183552	.8246237	.6436069	.6832078	.7182671	.6898865	.7406818
#1	1021.876	1034.699	1036.892	1025.670	1043.498	1014.213	1022.274
#2	1019.675	1025.532	1024.793	1018.023	1029.748	1009.945	1016.206
#3	1011.838	1017.798	1026.167	1011.777	1031.723	1000.612	1007.322
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-4.24806	-.526554	-1.19551	3.018417	L-1.24295	3070.311
SDEV	3.00762	.760498	.41068	9.243121	.68237	23.900
%RSD	70.79983	144.4292	34.35186	306.2241	54.89891	.7784214
#1	-2.30221	.3174647	-.727371	13.22859	L-.515728	3042.733
#2	-2.72980	-1.15852	-1.49510	-4.77916	L-1.34392	3083.200
#3	-7.71218	-.738608	-1.36404	.6058197	L-1.86921	3085.000
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-12 OPERATOR:
RUN TIME: 03/22/11 19:06:00
COMMENT: SDG:1103086 CLIENTID:CMW-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0286850	36.52517	107.6894	.0132835	85628.73	.0065554	.6156763
SDEV	.2130292	1.90471	.3507	.0597832	1197.50	.0766196	.5210513
%RSD	742.6489	5.214788	.3256487	450.0558	1.398482	1168.803	84.63072
#1	.1114413	36.32023	107.3037	.0553999	84834.78	.0349132	.7097497
#2	.1879184	38.52406	107.9891	.0395929	87006.13	.0649536	1.083282
#3	-.213305	34.73121	107.7753	-.055142	85045.27	-.080201	.0539969
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4255278	1.297287	2896.432	911.6439	24202.14	81.04391	7536.790
SDEV	.3082321	.365430	20.285	16.8504	136.46	.31526	99.846
%RSD	72.43524	28.16876	.7003607	1.848358	.5638173	.3890001	1.324785
#1	.5088988	1.367058	2876.043	905.9900	24050.82	80.71317	7519.619
#2	.6834989	1.622801	2916.612	930.5941	24315.83	81.34100	7644.108
#3	.0841859	.9020019	2896.639	898.3474	24239.77	81.07755	7446.643
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.383602	-.317047	.3412915	5.615388	.6191215	-3.13572	1.422786
SDEV	.490345	3.738938	.3661233	.110371	.3293779	1.38077	1.203794
%RSD	35.43975	1179.300	107.2758	1.965505	53.20085	44.03370	84.60824
#1	.9639271	1.765808	.4169140	5.662666	.9795260	-1.98060	1.161908
#2	1.922595	1.916574	.6636985	5.694244	.3336993	-2.76155	2.735627
#3	1.264285	-4.63352	-.056738	5.489254	.5441392	-4.66502	.3708213
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.90544	-2.34833	2.096188	2.764174	.7491568	-5.76420	-1.82739
SDEV	.83417	1.94158	1.371732	1.086241	1.412346	5.66061	3.42060
%RSD	3.641805	82.67921	65.43937	39.29712	188.5248	98.20275	187.1850
#1	23.70573	-4.38766	3.654675	3.323992	.0785576	-10.0328	2.035546
#2	22.96950	-2.13523	1.561867	3.456310	2.371874	.6569058	-4.47216
#3	22.04108	-.522088	1.072022	1.512220	-.202961	-7.91670	-3.04556
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.378364	2.735291	-.959899	2.581053	148.6322	3091.155
SDEV	1.824287	1.044687	.107919	4.943700	.7815	8.498
%RSD	53.99912	38.19290	11.24275	191.5381	.5257741	.2749200
#1	1.407900	3.067616	-.993055	1.965086	148.2749	3099.200
#2	3.718636	3.573389	-1.04735	7.803871	149.5284	3082.266
#3	5.008557	1.564867	-.839292	-2.02580	148.0932	3092.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032003-DUP1 OPERATOR:
RUN TIME: 03/22/11 19:13:00
COMMENT: SDG:1103086 CLIENTID:CMW-3D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3769183	257.8646	109.5553	-.078114	87921.55	-.059006	.3055334
SDEV	.1705064	15.6323	4.0422	.010416	3868.92	.101613	.0850151
%RSD	45.23696	6.062207	3.689627	13.33473	4.400423	172.2075	27.82514
#1	.3310624	250.3850	107.2455	-.066102	86231.31	-.026297	.2122788
#2	.5656635	247.3773	107.1978	-.084656	85185.34	.0222241	.3787172
#3	.2340290	275.8315	114.2228	-.083584	92347.98	-.172945	.3256043
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5430114	1.127872	2968.812	922.4228	24805.49	79.66326	7624.599
SDEV	.2576175	.206522	106.726	23.7134	867.58	2.93732	294.665
%RSD	47.44238	18.31075	3.594889	2.570774	3.497550	3.687164	3.864664
#1	.7203476	1.100775	2908.012	909.7914	24332.85	77.99031	7421.612
#2	.6611781	1.346605	2906.381	907.6990	24276.84	77.94460	7489.607
#3	.2475083	.9362367	3092.045	949.7780	25806.76	83.05488	7962.576
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8751687	-3.64334	.3208859	5.168672	.6810277	-3.61277	.1162914
SDEV	.2040708	3.60073	.2389287	.096802	1.017186	2.26665	2.719985
%RSD	23.31789	98.83050	74.45910	1.872864	149.3605	62.74007	2338.940
#1	.9688507	-.038300	.3132985	5.145920	1.575469	-3.42713	-1.05124
#2	1.015578	-3.65197	.5635179	5.085272	.8930856	-1.44464	-1.82501
#3	.6410774	-7.23974	.0858412	5.274824	-.425472	-5.96653	3.225126
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.15614	-2.62703	2.328183	3.567009	-1.61054	-8.02713	-1.41295
SDEV	2.65149	.79678	1.164232	3.581291	2.38593	3.72562	1.53876
%RSD	11.96729	30.33010	50.00603	100.4004	148.1452	46.41282	108.9043
#1	23.21019	-1.75684	3.235134	3.022641	-3.08912	-7.66269	-1.31652
#2	19.13971	-2.80340	2.734076	.2890678	-2.88445	-4.49713	.0753320
#3	24.11851	-3.32085	1.015338	7.389319	1.141965	-11.9216	-2.99765
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.315432	1.701595	-1.23359	2.082135	151.2458	3007.377
SDEV	.671787	3.682606	.32177	2.931884	5.1207	81.690
%RSD	212.9736	216.4208	26.08374	140.8114	3.385694	2.716330
#1	-.900155	-.544769	-.953551	1.546073	148.6642	3051.066
#2	.4183728	5.951592	-1.16214	5.245061	147.9297	3057.933
#3	-.464514	-.302037	-1.58507	-.544730	157.1435	2913.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032003-MS1 OPERATOR:
RUN TIME: 03/22/11 19:20:00
COMMENT: SDG:1103086 CLIENTID:CMW-3S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	49.60726	2064.007	2107.405	48.77843	86027.73	49.24810	497.4196
SDEV	.22967	13.068	11.319	.28427	1273.26	.21367	2.7013
%RSD	.4629812	.6331263	.5371018	.5827814	1.480063	.4338735	.5430595
#1	49.73730	2079.077	2120.260	49.10609	85282.20	49.48461	500.4851
#2	49.34207	2057.137	2103.021	48.63168	87497.91	49.06900	495.3875
#3	49.74240	2055.807	2098.934	48.59753	85303.05	49.19068	496.3864
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	201.4862	255.1282	3935.207	910.3515	24450.94	569.2988	7593.762
SDEV	1.3165	.9185	19.206	9.3405	116.21	3.1275	45.597
%RSD	.6533960	.3600050	.4880635	1.026037	.4752888	.5493665	.6004478
#1	202.9923	254.5068	3956.273	921.1284	24584.38	572.9071	7629.945
#2	200.5545	254.6946	3918.669	904.5903	24371.98	567.6241	7542.547
#3	200.9118	256.1832	3930.681	905.3357	24396.45	567.3653	7608.794
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	502.7446	46.99945	504.9330	480.9869	21.20036	44.82538	103.3256
SDEV	2.3373	2.10450	2.7191	2.7505	.75138	.41455	.6643
%RSD	.4649052	4.477716	.5385132	.5718355	3.544184	.9248097	.6429334
#1	505.4365	46.47670	508.0612	484.1216	21.46027	45.30350	102.7697
#2	501.5671	45.20560	503.1356	479.8609	20.35353	44.56627	104.0613
#3	501.2303	49.31606	503.6021	478.9780	21.78727	44.60637	103.1456
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	64.07427	19.81164	21.88809	104.0137	102.9781	42.60363	45.93064
SDEV	.20849	.87291	.72727	1.4561	.6718	2.87090	2.05449
%RSD	.3253834	4.406067	3.322694	1.399888	.6523494	6.738627	4.473018
#1	64.23451	20.40578	21.98174	103.8956	102.2037	39.28884	48.30233
#2	64.14974	18.80943	21.11852	105.5252	103.3265	44.29552	44.69751
#3	63.83856	20.21972	22.56400	102.6202	103.4040	44.22652	44.79209
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.362873	-.948347	-1.15644	-1.51947	149.7034	3085.689
SDEV	.164709	.700791	.53979	7.41710	.7225	30.596
%RSD	12.08542	73.89599	46.67654	488.1385	.4826201	.9915400
#1	1.427449	-.492941	-1.45728	1.986988	150.4125	3051.133
#2	1.485509	-1.75533	-1.47877	-10.0397	148.9682	3096.600
#3	1.175661	-.596774	-.533271	3.494278	149.7295	3109.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1103086-12 OPERATOR:
RUN TIME: 03/22/11 19:27:00
COMMENT: SDG:1103086 CLIENTID:CMW-3L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2713697	8.243252	20.85854	-.076972	17233.32	-.221435	.2441741
SDEV	.0640572	2.480821	.15132	.003912	983.99	.098237	.2239177
%RSD	23.60513	30.09517	.7254524	5.082325	5.709834	44.36374	91.70410
#1	.2900882	11.10785	20.98317	-.078576	17934.95	-.151767	-.013975
#2	.2000384	6.807584	20.69017	-.072514	17656.48	-.333794	.3858366
#3	.3239825	6.814317	20.90228	-.079828	16108.53	-.178743	.3606607
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3404405	.2637647	579.0848	151.2919	4788.841	15.88096	1472.072
SDEV	.1786295	.1730133	4.3951	5.5385	33.266	.09371	107.264
%RSD	52.47013	65.59378	.7589663	3.660801	.6946563	.5900997	7.286612
#1	.4869403	.4565459	582.4346	145.4294	4825.539	15.98589	1358.614
#2	.3929357	.1219852	574.1083	152.0097	4760.665	15.80559	1485.775
#3	.1414453	.2127632	580.7114	156.4364	4780.319	15.85141	1571.826
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.048014	-1.72106	.2804367	1.114387	.9130880	-3.35362	-.502670
SDEV	.121237	2.83977	.1006670	.039198	.1258682	1.71339	.529189
%RSD	11.56826	165.0014	35.89651	3.517476	13.78489	51.09069	105.2756
#1	.9296981	-1.83484	.3916122	1.126664	.7985532	-1.49193	.0925706
#2	1.171975	1.173891	.1954577	1.145978	.8928690	-3.70459	-.680678
#3	1.042369	-4.50224	.2542401	1.070520	1.047842	-4.86436	-.919902
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.387415	-.944341	1.836468	.2945800	-.904639	-3.80625	-3.13159
SDEV	.836302	3.640887	1.742525	5.805515	2.190160	2.15054	2.29285
%RSD	35.02963	385.5481	94.88463	1970.777	242.1031	56.50024	73.21673
#1	2.050036	-4.73020	3.554814	6.897681	-3.30886	-3.49927	-.493730
#2	3.339707	2.531783	.0707298	-4.00862	.9768880	-1.82570	-4.64653
#3	1.772501	-.634603	1.883859	-2.00532	-.381951	-6.09379	-4.25450
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.0691631	.8464838	-1.72261	7.040227	29.00390	3088.222
SDEV	2.889921	1.080867	.47393	1.987299	.33969	23.735
%RSD	4178.415	127.6890	27.51265	28.22776	1.171185	.7685691
#1	-2.97855	-.059526	-1.39945	8.388922	29.23817	3065.266
#2	2.769980	2.042882	-1.50170	4.758049	29.15920	3112.666
#3	.4160560	.5560952	-2.26666	7.973712	28.61432	3086.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032003-PS1 OPERATOR:
RUN TIME: 03/22/11 19:33:59
COMMENT: SDG:1103086 CLIENTID:CMW-3A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.14396	35.13050	107.2129	9.776968	85681.41	9.962592	101.0083
SDEV	.27029	.55517	.4174	.031263	618.01	.044188	.7677
%RSD	1.341776	1.580315	.3893269	.3197570	.7212872	.4435373	.7600263
#1	19.84070	34.74342	107.5979	9.794118	86251.11	9.963556	101.3021
#2	20.23168	34.88150	107.2715	9.795902	85024.38	10.00629	101.5857
#3	20.35948	35.76658	106.7693	9.740884	85768.75	9.917930	100.1372
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.93082	52.90140	2891.058	902.1357	24120.30	110.6171	7478.869
SDEV	.10612	.36704	19.840	25.7395	125.34	.5604	166.838
%RSD	.5069817	.6938188	.6862477	2.853179	.5196485	.5066139	2.230791
#1	21.04841	52.51774	2911.270	925.2117	24242.88	111.1440	7639.794
#2	20.84220	52.93731	2890.293	906.8196	24125.66	110.6791	7490.123
#3	20.90185	53.24918	2871.612	874.3759	23992.37	110.0283	7306.689
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	82.12924	51.01970	102.6336	116.0132	20.53589	67.90359	123.0270
SDEV	.02501	4.52700	.5526	.6050	.87175	2.02887	.7812
%RSD	.0304510	8.873048	.5383976	.5214618	4.244986	2.987873	.6349693
#1	82.10426	46.01984	103.0688	116.6580	20.96276	68.20893	122.1255
#2	82.15427	54.84054	102.8202	115.9235	21.11193	69.76248	123.4508
#3	82.12919	52.19871	102.0119	115.4581	19.53298	65.73935	123.5047
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	43.03935	17.27873	22.15707	124.5910	122.2422	64.62086	69.53852
SDEV	.75704	2.43204	.67943	.9715	.8452	2.23029	2.29615
%RSD	1.758960	14.07533	3.066435	.7797433	.6914141	3.451340	3.301985
#1	42.26310	19.60911	21.63358	123.7341	121.3184	66.50684	69.05470
#2	43.77560	17.47066	22.92487	124.3925	122.9767	65.19659	72.03803
#3	43.07934	14.75641	21.91276	125.6464	122.4315	62.15916	67.52283
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.433674	1.192282	-.900038	5.737773	147.1399	3070.044
SDEV	2.685085	.909790	.604905	2.174959	.2499	23.557
%RSD	187.2869	76.30662	67.20886	37.90598	.1698507	.7673042
#1	3.911422	.4239161	-.826777	3.230190	147.0629	3050.333
#2	1.808881	2.196890	-1.53824	6.871280	147.4193	3063.666
#3	-1.41928	.9560384	-.335100	7.111848	146.9376	3096.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-01 OPERATOR:
RUN TIME: 03/22/11 19:40:59
COMMENT: SDG:1103086 CLIENTID:PW-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.008760	1.702875	42.10866	-.059678	71327.39	-.173365	.3126034
SDEV	.567097	8.442669	2.23417	.023380	3480.91	.097524	.0619659
%RSD	6473.585	495.7890	5.305731	39.17683	4.880184	56.25388	19.82252
#1	.6407341	-7.97925	39.52906	-.032683	67312.93	-.098527	.3372172
#2	-.261282	7.529346	43.37072	-.073469	73507.24	-.283657	.2421124
#3	-.405733	5.558527	43.42620	-.072882	73162.00	-.137910	.3584806
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3600659	.0443722	850.9280	4647.327	22023.04	169.4426	6727.851
SDEV	.2647090	.0211868	43.8847	221.183	1194.00	9.0953	308.507
%RSD	73.51682	47.74798	5.157275	4.759355	5.421596	5.367780	4.585517
#1	.4903209	.0229976	800.5194	4391.927	20644.61	158.9414	6371.753
#2	.0554680	.0447529	871.6503	4775.275	22736.49	174.8299	6897.419
#3	.5344090	.0653661	880.6145	4774.779	22688.02	174.5565	6914.381
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.011571	.4310198	.1166526	4.040452	.3700150	-4.41941	1.700461
SDEV	.179759	3.261333	.2508978	.294599	.1738623	1.62580	.508511
%RSD	17.77026	756.6551	215.0813	7.291243	46.98790	36.78757	29.90430
#1	.8139730	-1.95737	.4060001	3.702761	.3393936	-4.85063	1.237688
#2	1.165411	-.896287	-.015442	4.173769	.2134978	-2.62148	2.244840
#3	1.055328	4.146719	-.040600	4.244826	.5571537	-5.78613	1.618856
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0339816	-2.15672	1.627343	2.365759	1.364480	-5.08445	-4.09122
SDEV	1.423110	.80837	.664345	2.465653	1.809430	1.75645	3.29049
%RSD	4187.883	37.48124	40.82392	104.2225	132.6096	34.54552	80.42792
#1	-1.55905	-2.05316	1.529774	2.409221	.6491522	-4.10493	-5.22657
#2	1.179682	-1.40513	1.017178	-.121338	3.422222	-7.11224	-.383402
#3	.4813122	-3.01187	2.335078	4.809394	.0220643	-4.03619	-6.66370
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.201438	.0659056	-.347259	2.574848	13.71162	3181.600
SDEV	2.661452	2.280395	.156138	3.626568	.80417	134.009
%RSD	221.5222	3460.092	44.96284	140.8459	5.864906	4.212008
#1	-1.72733	-.301736	-.511870	5.540394	12.86270	3336.133
#2	3.472086	-2.00833	-.201264	-1.46842	13.81022	3097.400
#3	1.859559	2.507785	-.328643	3.652574	14.46195	3111.266
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-02 OPERATOR:
RUN TIME: 03/22/11 19:47:59
COMMENT: SDG:1103086 CLIENTID:MW-C1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.058261	58.52696	61.32180	-.068692	73253.41	-.163922	.5723690
SDEV	.382481	1.68268	.02056	.011503	1600.65	.102785	.1212760
%RSD	656.4913	2.875058	.0335326	16.74571	2.185087	62.70346	21.18843
#1	-.493969	58.65153	61.31956	-.065656	75018.70	-.275446	.5195294
#2	.0970520	56.78546	61.30244	-.081408	72844.98	-.072996	.7111002
#3	.2221325	60.14390	61.34338	-.059011	71896.53	-.143325	.4864774
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5299194	3.859096	870.7234	606.4850	22695.23	370.5719	3713.654
SDEV	.3415061	.404301	5.4593	7.4434	53.38	.5109	91.876
%RSD	64.44492	10.47658	.6269888	1.227308	.2351913	.1378772	2.474012
#1	.1712314	3.625758	864.4362	608.5826	22744.79	371.1498	3771.534
#2	.5673704	3.625587	873.4705	612.6545	22702.18	370.3857	3761.713
#3	.8511563	4.325943	874.2636	598.2178	22638.72	370.1801	3607.716
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.204655	-3.46283	.3785653	4.127224	.8730326	-3.94401	.7121579
SDEV	.663472	.54029	.2091647	.054427	.3440963	2.55452	1.601301
%RSD	55.07564	15.60265	55.25195	1.318724	39.41391	64.76971	224.8519
#1	.4522195	-3.98165	.2846042	4.070913	1.073042	-6.87549	2.558775
#2	1.705673	-3.50346	.2328586	4.179547	1.070348	-2.19476	-.129498
#3	1.456073	-2.90336	.6182330	4.131212	.4757075	-2.76176	-.292803
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.875890	-3.05819	2.831258	2.080173	.0252281	-4.74581	-3.54765
SDEV	.788483	1.59521	.487654	.522668	2.246012	5.51890	2.50090
%RSD	13.41896	52.16179	17.22393	25.12618	8902.833	116.2899	70.49468
#1	5.020575	-1.36922	2.287891	2.482750	2.592768	-10.0097	-5.31468
#2	6.033299	-3.26610	3.230889	1.489487	-.941718	-5.22457	-.686073
#3	6.573795	-4.53925	2.974994	2.268283	-1.57537	.9968714	-4.64220
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.276423	.6484278	-.550826	5.123706	12.94673	3085.689
SDEV	2.943526	.8259642	.162591	6.387584	.05010	10.450
%RSD	1064.862	127.3795	29.51758	124.6672	.3869804	.3386723
#1	-1.20009	-.157079	-.680185	.2312040	12.98180	3073.666
#2	-2.64734	1.493432	-.603983	2.789917	12.88935	3090.800
#3	3.018161	.6089303	-.368310	12.35000	12.96903	3092.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-03 OPERATOR:
RUN TIME: 03/22/11 19:54:59
COMMENT: SDG:1103086 CLIENTID:CMW-5R 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.345714	22.95449	72.89893	-.056775	79235.89	-.098157	.4341174
SDEV	.115564	8.91626	3.25753	.017207	3574.61	.083671	.2943276
%RSD	33.42763	38.84323	4.468551	30.30823	4.511349	85.24240	67.79906
#1	-.418635	17.97130	71.22805	-.039010	78196.19	-.144437	.1165962
#2	-.406035	33.24837	76.65286	-.073365	83215.09	-.148464	.4879308
#3	-.212470	17.64380	70.81588	-.057950	76296.39	-.001570	.6978252
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3685219	.0791233	1146.235	645.5507	23544.32	312.9931	5076.256
SDEV	.2240379	.2284272	52.297	25.9817	1038.53	13.8297	148.741
%RSD	60.79365	288.6979	4.562496	4.024731	4.410964	4.418516	2.930139
#1	.5114085	.3130306	1121.012	624.2291	23008.98	306.0165	5008.749
#2	.4838420	.0677372	1206.363	674.4896	24741.29	328.9214	5246.779
#3	.1103152	-.143398	1111.330	637.9335	22882.69	304.0413	4973.238
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.784878	-3.96894	.0860510	2.330090	1.308332	-2.94910	-.830665
SDEV	.024778	1.07031	.1852085	.140421	.784201	2.51123	.811765
%RSD	1.388192	26.96726	215.2312	6.026397	59.93899	85.15237	97.72474
#1	1.802909	-5.20483	.2026176	2.292156	1.350873	-5.73212	.0679125
#2	1.795100	-3.35358	-.127511	2.485581	.5037264	-2.26281	-1.51100
#3	1.756625	-3.34841	.1830461	2.212534	2.070396	-.852358	-1.04891
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.708169	-2.10552	3.008203	1.793198	-2.14463	-6.05391	-1.40302
SDEV	1.797610	2.57519	2.043469	2.762014	.59365	4.85337	1.94135
%RSD	66.37735	122.3065	67.92992	154.0273	27.68088	80.16922	138.3695
#1	4.155305	-4.90924	4.471795	4.943847	-2.37035	-11.5634	-2.82478
#2	3.273301	.1542412	.6735370	.6465638	-2.59231	-2.41085	-2.19306
#3	.6958994	-1.56158	3.879275	-.210818	-1.47122	-4.18745	.8087881
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.8825083	1.189169	.3042361	1.741165	12.06312	3049.155
SDEV	3.938453	1.050631	.7612362	1.309786	.51689	99.608
%RSD	446.2795	88.35003	250.2123	75.22465	4.284861	3.266730
#1	-3.49496	.6876779	-.467516	2.762822	11.73491	3086.200
#2	4.138825	2.396578	1.054501	2.196101	12.65894	2936.333
#3	2.003661	.4832503	.3257235	.2645721	11.79550	3124.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/22/11 20:02:00
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	92.31496	48237.60	951.1824	943.0002	47563.56	938.4780	937.1782
SDEV	.35625	42.62	.9456	1.2542	1492.82	.7571	.8566
%RSD	.3859017	.0883440	.0994136	.1330047	3.138574	.0806706	.0914001
#1	92.71914	48222.70	950.7775	941.5698	46576.87	938.8798	936.7372
#2	92.17915	48285.66	952.2630	943.9114	49280.97	938.9494	938.1654
#3	92.04660	48204.43	950.5066	943.5195	46832.85	937.6047	936.6319
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	954.8630	957.6335	23743.24	47239.29	47615.20	936.0490	48795.04
SDEV	.9798	2.3299	14.09	58.11	28.60	.8860	47.76
%RSD	.1026142	.2432964	.0593231	.1230062	.0600610	.0946508	.0978761
#1	953.9428	960.0626	23737.98	47263.20	47611.23	935.2014	48760.77
#2	955.8932	957.4204	23759.19	47281.63	47645.57	936.9689	48774.76
#3	954.7531	955.4174	23732.53	47173.04	47588.79	935.9766	48849.59
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	950.8210	956.3754	957.8544	1019.756	943.8776	955.3282	990.3590
SDEV	1.0157	5.5262	.4503	1.382	2.3159	1.1093	1.7593
%RSD	.1068207	.5778241	.0470164	.1355281	.2453616	.1161199	.1776402
#1	950.3235	962.0753	957.4465	1019.918	941.2266	955.7587	988.3844
#2	951.9896	951.0411	958.3377	1021.049	944.8990	954.0681	991.7595
#3	950.1501	956.0098	957.7790	1018.300	945.5073	956.1577	990.9331
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	957.4033	938.8705	946.3725	982.6703	994.1940	947.8502	959.0576
SDEV	3.1444	3.3091	1.8277	1.8011	2.4926	6.3436	4.4822
%RSD	.3284265	.3524587	.1931237	.1832858	.2507127	.6692596	.4673548
#1	961.0305	935.0569	944.3019	981.5471	991.7944	941.1680	963.0392
#2	955.7298	940.5719	947.0544	981.7162	996.7701	953.7897	954.2032
#3	955.4497	940.9829	947.7612	984.7478	994.0176	948.5930	959.9305
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	952.9493	952.8982	971.0907	962.6251	996.0008	3080.111
SDEV	7.7157	1.0591	3.2386	2.3705	.4426	7.846
%RSD	.8096638	.1111482	.3335032	.2462502	.0444348	.2547274
#1	961.1320	952.9716	967.3884	960.1561	996.2411	3088.400
#2	951.9102	951.8043	973.3982	962.8362	996.2712	3079.133
#3	945.8059	953.9188	972.4854	964.8829	995.4900	3072.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/22/11 20:09:02
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0303006	13.21182	-.401201	.0849551	4.653044	.0740246	.3192866
SDEV	.6518022	2.65869	.071588	.0151275	.293563	.1274120	.3757071
%RSD	2151.120	20.12358	17.84335	17.80651	6.309061	172.1212	117.6708
#1	.1720190	16.20575	-.379563	.0769941	4.500139	.0138010	.2463396
#2	.5995843	11.12672	-.342928	.1024007	4.467495	.2203847	.7261179
#3	-.680702	12.30298	-.481111	.0754705	4.991498	-.012112	-.014598
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1604246	-.241032	3.946033	8.561580	15.71168	-.156644	95.76668
SDEV	.2596523	.195142	2.496726	6.994677	2.25152	.015912	141.4673
%RSD	161.8532	80.96088	63.27179	81.69844	14.33023	10.15796	147.7208
#1	.4561847	-.457041	4.880270	8.877175	16.09203	-.172544	152.5543
#2	-.030044	-.077482	5.840913	15.39312	17.74880	-.140721	200.0166
#3	.0551328	-.188573	1.116915	1.414447	13.29421	-.156668	-65.2709
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1709759	.6145750	.1470205	.0273118	.3257241	-3.72109	.3090144
SDEV	.1881236	2.819091	.2518940	.1047655	1.042595	.91523	.7673479
%RSD	110.0293	458.7057	171.3325	383.5901	320.0854	24.59586	248.3211
#1	.1804396	3.839852	.0455053	-.052314	-.836145	-4.56352	-.338566
#2	.3541890	-.616667	.4338324	.1459955	1.179697	-2.74726	1.156544
#3	-.021701	-1.37946	-.038276	-.011746	.6336200	-3.85249	.1090651
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.16486	-1.43822	1.202451	1.682078	-.380413	-5.88612	-2.64412
SDEV	.44220	1.84077	1.071548	.785730	.842110	2.76787	1.04909
%RSD	37.96163	127.9891	89.11371	46.71186	221.3675	47.02359	39.67618
#1	-1.52427	-2.59454	.0377740	.7926557	-.907287	-6.33521	-3.68297
#2	-.671056	.6844839	1.423040	2.281926	.5908042	-2.92117	-2.66432
#3	-1.29925	-2.40462	2.146538	1.971652	-.824755	-8.40199	-1.58508
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-3.21609	1.727398	-.274021	2.908071	.0385569	3101.311
SDEV	.96261	2.513725	.532487	5.531815	.8407359	25.584
%RSD	29.93093	145.5209	194.3234	190.2228	2180.508	.8249466
#1	-2.12149	3.443052	.1559838	2.933564	.7484842	3075.200
#2	-3.59607	2.897183	-.108413	8.427095	.2570383	3126.333
#3	-3.93071	-1.15804	-.869634	-2.63645	-.889852	3102.400
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-04 OPERATOR:
RUN TIME: 03/22/11 20:16:02
COMMENT: SDG:1103086 CLIENTID:PW-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.618307	13.92934	62.02259	-.049466	83043.08	-.181483	.2791685
SDEV	.429543	2.37536	.64361	.020829	1734.90	.092270	.3375148
%RSD	69.47076	17.05293	1.037699	42.10815	2.089159	50.84244	120.9000
#1	-.164086	13.70877	61.60712	-.030881	84043.24	-.121217	.6603540
#2	-1.01796	11.67197	61.69668	-.071980	81039.79	-.287707	.0182945
#3	-.672879	16.40730	62.76396	-.045538	84046.21	-.135525	.1588569
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3028925	-.081021	1054.239	588.9501	24358.45	349.6369	3438.929
SDEV	.3424984	.559093	15.334	5.4166	259.68	3.6982	51.682
%RSD	113.0759	690.0632	1.454516	.9197109	1.066097	1.057721	1.502854
#1	.6230560	.1795984	1052.717	594.1351	24187.64	347.0774	3498.285
#2	-.058253	-.722841	1039.724	589.3870	24230.43	347.9564	3403.895
#3	.3438745	.3001808	1070.278	583.3283	24657.29	353.8769	3414.607
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7648345	-1.57034	.1125446	2.598270	.8014680	-2.56797	-.227843
SDEV	.2628758	3.05390	.2323186	.084435	.9108829	2.53888	.936550
%RSD	34.37029	194.4741	206.4235	3.249665	113.6518	98.86697	411.0516
#1	.6012298	-5.08633	.2587348	2.517223	-.217080	-2.59432	-1.01026
#2	1.068061	.4214550	-.155341	2.591860	1.537959	-.016025	.8098922
#3	.6252123	-.046139	.2342399	2.685727	1.083524	-5.09357	-.483164
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1251572	-.990865	1.692186	.3946963	-.542586	-6.39973	-.658909
SDEV	1.567268	1.523580	.881432	1.432460	1.951062	6.55270	.535178
%RSD	1252.240	153.7626	52.08839	362.9271	359.5855	102.3903	81.22178
#1	1.380188	-2.61978	.9780443	2.042169	-2.53811	-6.49693	-.649876
#2	.6268017	-.751962	2.677289	-.301299	1.360740	.2010311	-.128305
#3	-1.63152	.3991504	1.421224	-.556780	-.450384	-12.9033	-1.19855
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.916788	1.883888	-.186834	-5.11301	12.95006	3090.689
SDEV	1.470936	3.292343	.120106	8.36951	.37710	22.988
%RSD	76.73965	174.7633	64.28481	163.6906	2.911991	.7437803
#1	.9507527	2.814998	-.076744	1.268994	12.95991	3095.333
#2	3.609655	4.610401	-.314924	-14.5890	12.56812	3111.000
#3	1.189956	-1.77374	-.168834	-2.01901	13.32214	3065.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-05 OPERATOR:
RUN TIME: 03/22/11 20:23:03
COMMENT: SDG:1103086 CLIENTID:MW-C5 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4709513	67.42551	41.12918	-.068209	54804.69	-.152555	.4478527
SDEV	.2351221	1.30729	.09796	.014311	1246.67	.056364	.2617369
%RSD	49.92493	1.938873	.2381808	20.98037	2.274751	36.94681	58.44264
#1	.3759556	68.49921	41.22698	-.057995	53815.59	-.173197	.6647094
#2	.2981896	65.96975	41.03106	-.084566	56205.03	-.195689	.5217320
#3	.7387087	67.80756	41.12950	-.062068	54393.46	-.088780	.1571166
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6899647	3.181030	62.50182	11486.48	7747.088	13.52180	2365.416
SDEV	.1441129	.202932	1.54968	20.27	17.315	.03821	223.865
%RSD	20.88699	6.379454	2.479421	.1764827	.2235064	.2826164	9.464101
#1	.8247674	2.947443	63.88606	11509.52	7767.081	13.53814	2561.007
#2	.5380666	3.313929	60.82765	11471.38	7736.958	13.47813	2413.988
#3	.7070602	3.281719	62.79175	11478.53	7737.224	13.54913	2121.252
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.313959	-3.17899	1.003271	5.310805	.4581341	-1.32401	-.186728
SDEV	.352441	1.81756	.320348	.038867	1.902695	3.03116	.968348
%RSD	26.82280	57.17410	31.93034	.7318564	415.3140	228.9378	518.5878
#1	1.684273	-2.44791	1.361496	5.355450	-.314159	1.834588	-1.01086
#2	1.274970	-1.84081	.7442887	5.292459	2.625550	-1.59741	-.429117
#3	.9826344	-5.24825	.9040293	5.284507	-.936989	-4.20920	.8797888
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.062605	-3.05938	2.209828	1.089617	-.827880	-6.07370	1.043341
SDEV	1.934545	1.02647	2.436100	1.799393	1.213523	2.32483	3.482982
%RSD	3090.096	33.55147	110.2393	165.1399	146.5821	38.27703	333.8298
#1	1.175310	-2.81429	.9295927	-.927155	-1.05659	-4.21641	4.851606
#2	.9287611	-2.17765	5.019124	2.530770	-1.91078	-5.32375	.2590292
#3	-2.29188	-4.18621	.6807682	1.665237	.4837254	-8.68095	-1.98061
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.502559	1.793868	-.077609	11.18219	16.08772	3094.244
SDEV	.231053	1.743237	.160242	.27307	.11664	6.823
%RSD	45.97521	97.17756	206.4719	2.442037	.7250226	.2205031
#1	-.733945	2.429998	-.099033	10.87625	16.08686	3086.800
#2	-.501891	3.129702	-.226061	11.40128	16.20479	3095.733
#3	-.271842	-.178095	.0922665	11.26903	15.97152	3100.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-06 OPERATOR:
RUN TIME: 03/22/11 20:30:03
COMMENT: SDG:1103086 CLIENTID:DUP-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0249551	76.16097	41.91087	-.068638	55488.24	-.155838	.3464891
SDEV	.1105167	6.59211	1.13010	.005097	1741.80	.050895	.1982816
%RSD	442.8623	8.655492	2.696427	7.425473	3.139044	32.65907	57.22592
#1	.0990097	79.98142	42.90926	-.072818	57033.23	-.211826	.5447000
#2	-.102077	68.54907	40.68399	-.070134	53600.57	-.143317	.3466303
#3	.0779326	79.95239	42.13935	-.062960	55830.93	-.112372	.1481369
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5522955	2.609777	69.63209	11800.77	7777.452	11.59302	2444.225
SDEV	.0674134	.305421	1.51766	281.04	198.008	.21812	247.594
%RSD	12.20603	11.70297	2.179541	2.381523	2.545923	1.881508	10.12976
#1	.4792534	2.268429	68.69679	12055.93	7946.469	11.77488	2729.582
#2	.5655100	2.703681	71.38317	11499.55	7559.594	11.35119	2316.762
#3	.6121231	2.857220	68.81631	11846.82	7826.293	11.65300	2286.332
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.713857	-1.92253	.5865071	6.870894	.5029249	-1.84300	-.626332
SDEV	.143174	3.71253	.2575694	.191279	.9240794	.61366	1.702071
%RSD	8.353923	193.1067	43.91581	2.783899	183.7410	33.29704	271.7525
#1	1.864920	-.440809	.7956013	7.089700	-.265589	-2.40466	1.236631
#2	1.580156	-6.14711	.2987888	6.787581	1.528245	-1.18802	-1.01553
#3	1.696494	.8203267	.6651313	6.735403	.2461179	-1.93630	-2.10010
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.468445	-1.62156	1.559046	-.198742	-.843831	-3.74617	-.896861
SDEV	2.478049	2.61926	1.927789	3.737572	4.125089	3.11958	.967989
%RSD	528.9943	161.5269	123.6518	1880.616	488.8524	83.27383	107.9308
#1	-.346205	.5280862	-.666462	-4.14432	3.918958	-4.79941	-1.21320
#2	1.946222	-.853894	2.713108	3.288559	-3.16827	-.236301	-1.66710
#3	-3.00535	-4.53887	2.630492	.2595370	-3.28218	-6.20282	.1897227
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.8200579	3.465519	-.536357	4.283067	16.31071	3027.489
SDEV	.7017606	2.683579	.285220	2.524523	.61726	68.983
%RSD	85.57452	77.43657	53.17731	58.94195	3.784408	2.278553
#1	1.625812	3.264996	-.290030	1.414157	16.44302	2960.933
#2	.4916014	6.243735	-.848842	6.164996	15.63802	3098.666
#3	.3427604	.8878261	-.470198	5.270048	16.85109	3022.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-07 OPERATOR:
RUN TIME: 03/22/11 20:37:04
COMMENT: SDG:1103086 CLIENTID:MW-C2B 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1775468	14.39612	80.37266	-.043418	89796.04	-.094506	.9125552
SDEV	.4374679	2.75613	.13889	.018056	1217.19	.132817	.2190659
%RSD	246.3958	19.14495	.1728078	41.58645	1.355505	140.5374	24.00577
#1	-.087978	16.07412	80.53181	-.029086	91030.95	-.032906	1.149802
#2	-.061847	11.21522	80.27593	-.063698	89759.80	-.246938	.7179360
#3	.6824660	15.89901	80.31023	-.037471	88597.38	-.003675	.8699276
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.458902	-.024846	429.0906	627.7227	27068.71	388.9453	3844.733
SDEV	.477343	.467157	3.3761	10.0054	23.63	.2943	30.417
%RSD	32.71935	1880.235	.7867971	1.593922	.0873057	.0756679	.7911437
#1	1.230550	-.109557	427.5174	639.1251	27086.96	389.0642	3876.403
#2	1.138626	-.443851	426.7883	623.6329	27042.01	388.6102	3815.747
#3	2.007529	.4788703	432.9662	620.4100	27077.15	389.1617	3842.048
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.101417	-3.09293	.3171276	4.179227	.2290789	-3.01157	-.853537
SDEV	.282801	1.39536	.2786930	.013044	.2107249	1.67153	.937794
%RSD	13.45762	45.11459	87.88041	.3121177	91.98789	55.50360	109.8715
#1	1.987082	-4.64849	.3992986	4.168245	.3468234	-4.59872	.0673364
#2	1.893685	-2.67875	.0065876	4.193645	.3546170	-3.16914	-1.80738
#3	2.423485	-1.95154	.5454966	4.175790	-.014204	-1.26683	-.820566
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.726532	-2.41123	1.542793	.5327037	-1.54958	-4.74985	-2.14769
SDEV	.165104	2.34492	.857000	2.592120	2.51485	2.14198	3.57386
%RSD	6.055461	97.25005	55.54860	486.5969	162.2919	45.09579	166.4047
#1	2.903906	-1.34862	1.188806	-2.40555	1.297954	-2.62958	-5.58579
#2	2.577321	-.785735	.9194931	1.507760	-3.46642	-4.70707	-2.40528
#3	2.698369	-5.09934	2.520079	2.495897	-2.48029	-6.91290	1.547995
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.012203	2.176263	-.095939	4.547622	10.55217	3071.844
SDEV	.934545	2.161418	.173863	5.673610	.61406	10.226
%RSD	46.44390	99.31789	181.2221	124.7599	5.819262	.3329078
#1	2.114525	3.692948	-.076871	2.961840	10.04810	3069.200
#2	1.030707	3.134452	-.278551	-.164378	10.37234	3083.133
#3	2.891376	-.298611	.0676035	10.84540	11.23607	3063.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-08 OPERATOR:
RUN TIME: 03/22/11 20:44:04
COMMENT: SDG:1103086 CLIENTID:MW-C6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6132444	13.61047	111.4722	-.069218	70074.02	-.087685	.4486210
SDEV	.2079901	2.67192	.1593	.011188	1042.53	.054299	.2207907
%RSD	33.91635	19.63134	.1429229	16.16361	1.487750	61.92490	49.21541
#1	.6407780	16.61523	111.3434	-.058626	70780.52	-.139177	.2023982
#2	.3928589	12.71449	111.6504	-.080920	70564.86	-.030958	.6289973
#3	.8060965	11.50169	111.4230	-.068109	68876.66	-.092919	.5144674
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.888176	1.964409	2182.524	890.4541	20606.28	152.1707	20430.66
SDEV	.263449	.084520	.824	5.3770	31.82	.2921	58.78
%RSD	13.95258	4.302554	.0377555	.6038518	.1544362	.1919627	.2876816
#1	1.948753	2.003219	2182.823	896.2678	20613.52	152.1055	20497.92
#2	1.599715	1.867455	2181.593	889.4349	20633.87	152.4899	20389.18
#3	2.116061	2.022554	2183.158	885.6597	20571.47	151.9168	20404.89
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.576149	-.425804	.4082926	3.917458	.4397914	-3.20462	-.343147
SDEV	.132490	4.826698	.1113103	.029589	.5632667	2.67048	.338883
%RSD	8.405932	1133.548	27.26238	.7553098	128.0759	83.33234	98.75754
#1	1.629335	-5.88461	.4185802	3.940444	1.090091	-.188673	-.664637
#2	1.425330	1.329878	.2921957	3.927855	.1045302	-5.26895	.0107949
#3	1.673782	3.277315	.5141020	3.884073	.1247532	-4.15623	-.375598
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.584521	-1.81952	1.563453	1.687009	-1.36067	-3.07517	-3.27322
SDEV	1.407231	2.92617	.725308	5.937857	2.45780	5.27443	1.50089
%RSD	30.69527	160.8213	46.39142	351.9753	180.6314	171.5167	45.85359
#1	6.178911	1.338048	.9618264	-4.19710	1.094973	2.537696	-1.55379
#2	4.058878	-4.43984	2.368851	7.677190	-3.82062	-7.92890	-3.94494
#3	3.515773	-2.35676	1.359681	1.580940	-1.35637	-3.83431	-4.32092
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.8287242	.6745470	-.184978	4.758131	19.85625	3069.333
SDEV	.1604164	1.695391	.181936	1.443893	.39839	4.541
%RSD	19.35703	251.3378	98.35574	30.34580	2.006367	.1479340
#1	.8813148	2.361039	-.114842	5.279870	20.28318	3064.333
#2	.9562440	.6922082	-.048547	3.125887	19.79115	3073.200
#3	.6486138	-1.02961	-.391544	5.868637	19.49442	3070.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-09 OPERATOR:
RUN TIME: 03/22/11 20:51:04
COMMENT: SDG:1103086 CLIENTID:CMW-3D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0331333	14.52787	76.22324	-.045211	68995.21	-.030903	.6215514
SDEV	.4269588	1.32673	.22463	.004591	1702.96	.044116	.2115847
%RSD	1288.608	9.132326	.2947021	10.15507	2.468234	142.7528	34.04138
#1	.2908776	13.66157	76.48253	-.049719	68112.96	-.010738	.8658167
#2	-.459703	16.05526	76.09966	-.045372	67914.40	-.081498	.4950694
#3	.2682252	13.86677	76.08753	-.040541	70958.28	-.000474	.5037681
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2209514	-.025488	1322.261	560.6710	19521.03	305.7376	5082.456
SDEV	.1868666	.110663	5.003	13.4468	52.69	.6755	104.976
%RSD	84.57362	434.1838	.3783682	2.398347	.2699003	.2209566	2.065462
#1	.4367245	-.142722	1326.678	576.1957	19574.87	306.4773	5188.578
#2	.1138271	-.010898	1316.828	553.1467	19518.63	305.5823	4978.664
#3	.1123025	.0771572	1323.276	552.6708	19469.58	305.1533	5080.126
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.824735	-1.10158	.3026124	1.954098	1.071501	-1.77018	-.331473
SDEV	.292618	3.61269	.2946447	.121045	.731696	1.96450	1.988714
%RSD	10.35913	327.9548	97.36702	6.194409	68.28700	110.9774	599.9617
#1	2.939779	-5.00635	.6185055	2.062085	1.746772	-4.03113	-1.22898
#2	2.492079	-.420487	.2540925	1.976954	.2941091	-.798855	1.947811
#3	3.042348	2.122085	.0352393	1.823254	1.173622	-.480551	-1.71325
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	12.21711	-1.07390	2.138291	-1.01429	.0054494	-1.69590	-1.81123
SDEV	.89425	2.55447	.346011	3.36311	1.985860	3.93359	4.05310
%RSD	7.319646	237.8694	16.18164	331.5743	36442.12	231.9478	223.7757
#1	13.06230	1.650360	1.790381	-4.44787	.3740297	.1752910	-6.13520
#2	12.30825	-3.41538	2.142121	2.273610	1.781198	-6.21578	1.901590
#3	11.28078	-1.45667	2.482371	-.868593	-2.13888	.9528037	-1.20009
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.4087126	2.447803	-.515631	1.464918	31.02139	3067.422
SDEV	1.304374	1.863652	.528293	1.085599	.43713	34.855
%RSD	319.1420	76.13573	102.4556	74.10644	1.409129	1.136287
#1	-1.06450	4.493844	.0787840	2.203458	30.64119	3028.666
#2	1.416662	.8473005	-.931567	1.972828	31.49902	3077.400
#3	.8739739	2.002263	-.694111	.2184687	30.92397	3096.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-10 OPERATOR:
RUN TIME: 03/22/11 20:58:04
COMMENT: SDG:1103086 CLIENTID:DUP-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.075028	8.556419	30.24360	-.053068	130903.2	-.232992	.4558689
SDEV	.507478	4.776896	.15985	.046916	1027.1	.187113	.4440205
%RSD	676.3822	55.82820	.5285566	88.40686	.7845953	80.30862	97.40091
#1	-.280304	10.55216	30.33271	-.086082	131599.7	-.183660	.6312172
#2	.5029310	12.01181	30.33903	.0006364	131386.4	-.075488	.7854403
#3	-.447712	3.105293	30.05905	-.073759	129723.7	-.439829	-.049051
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5253698	.2607733	-7.94404	857.0580	29979.92	.3146396	2465.353
SDEV	.7207046	.3725568	6.58660	11.7029	133.97	.0353789	43.178
%RSD	137.1804	142.8661	82.91238	1.365478	.4468704	11.24426	1.751384
#1	.4305965	-.032124	-5.91128	862.2238	30045.76	.3357279	2513.364
#2	1.288772	.6800901	-2.61345	865.2893	30068.23	.3343961	2452.987
#3	-.143259	.1343535	-15.3074	843.6611	29825.77	.2737948	2429.707
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6401169	-4.06906	.1697009	2.403488	-.131939	-2.07512	-1.29442
SDEV	.5424629	1.35402	.3702006	.145423	.459682	1.69020	3.29494
%RSD	84.74435	33.27595	218.1489	6.050514	348.4055	81.45058	254.5499
#1	.1530985	-3.37801	.4447692	2.413989	.3904439	-2.25735	-5.09645
#2	1.224765	-5.62916	.3155420	2.543376	-.311615	-.301192	.4839626
#3	.5424871	-3.20000	-.251209	2.253099	-.474645	-3.66682	.7292337
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.06354	-2.87383	1.232652	1.857273	-2.87187	-3.95900	-1.13855
SDEV	.82176	1.22872	.101055	3.183718	3.35066	1.47123	2.13052
%RSD	77.26609	42.75541	8.198160	171.4190	116.6719	37.16166	187.1250
#1	-.143235	-1.51077	1.335148	-1.81440	-6.73899	-5.34679	-.718923
#2	-1.32354	-3.21434	1.133102	3.534529	-1.04301	-2.41654	.7509267
#3	-1.72385	-3.89637	1.229707	3.851694	-.833605	-4.11368	-3.44767
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.058939	2.210784	-1.21947	-.022221	19.63869	3071.333
SDEV	1.932795	.242742	.68765	7.396068	.48569	12.133
%RSD	182.5219	10.97992	56.38902	33284.71	2.473127	.3950448
#1	-.818972	2.340789	-.511949	-.943965	20.18343	3062.066
#2	3.042299	2.360835	-1.26111	7.791515	19.48184	3066.867
#3	.9534885	1.930729	-1.88535	-6.91421	19.25082	3085.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

ANALYSIS REPORT QC STANDARD 03/22/11 09:12:01 PM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/22/11 21:05:04
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.20366	1.979496	Q-.564739	4.860734	2.115352	4.998533	52.09088
SDEV	.25149	.412821	.060445	.018963	.109822	.051764	.28655
%RSD	2.464677	20.85486	10.70322	.3901319	5.191673	1.035587	.5501049
#1	10.08695	1.511131	Q-.588003	4.880065	2.114609	5.055064	52.23768
#2	10.49229	2.290469	Q-.496118	4.859975	2.005903	4.987083	52.27428
#3	10.03172	2.136888	Q-.610095	4.842161	2.225543	4.953453	51.76067
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.58986	25.23118	-5.19768	-.202756	-1.50191	14.83321	-12.3242
SDEV	.35031	.24607	3.58257	2.882156	.70688	.06508	33.5054
%RSD	3.307949	.9752499	68.92640	1421.493	47.06531	.4387318	271.8660
#1	10.50147	25.02277	-8.38793	2.705967	-1.63763	14.83830	18.92698
#2	10.97590	25.50264	-1.32186	-.256643	-.737014	14.89559	-8.19803
#3	10.29222	25.16813	-5.88325	-3.05759	-2.13109	14.76574	-47.7017
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.18128	27.03937	51.95212	54.60106	10.67422	33.27222	62.64139
SDEV	.40604	2.85328	.04014	.14433	.52980	1.21315	.21158
%RSD	.9626070	10.55232	.0772560	.2643350	4.963334	3.646130	.3377696
#1	42.48739	29.82272	51.99836	54.50670	10.31088	33.72745	62.58334
#2	42.33579	24.12095	51.92627	54.52928	11.28212	31.89730	62.87594
#3	41.72067	27.17444	51.93173	54.76721	10.42965	34.19190	62.46489
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.121069	8.052918	11.97792	66.55415	60.68395	32.59594	33.60586
SDEV	1.717417	2.047790	1.65271	1.79712	1.01935	4.80795	1.82847
%RSD	21.14767	25.42916	13.79795	2.700240	1.679763	14.75015	5.440923
#1	Q6.356822	10.41148	10.25567	64.71025	61.51749	37.74272	31.71883
#2	9.787474	6.727616	13.55096	66.65169	60.98689	28.21995	33.72922
#3	8.218910	7.019656	12.12712	68.30052	59.54747	31.82515	35.36952
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	50.11560	51.53512	51.60154	56.18739	51.45747	3053.200
SDEV	1.20670	1.11905	.30815	4.81702	.15158	7.387
%RSD	2.407832	2.171430	.5971744	8.573137	.2945676	.2419386
#1	50.20262	52.26064	51.28120	52.67959	51.28774	3051.133
#2	51.27643	52.09837	51.62758	61.67963	51.57934	3047.066
#3	48.86774	50.24636	51.89585	54.20294	51.50532	3061.400
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/22/11 21:12:04
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0132296	262779.7	2.389862	.6545717	252920.4	2.686214	5.534940
SDEV	.3121678	2515.7	.097920	.0240709	4245.8	.049830	.115513
%RSD	2359.613	.9573548	4.097323	3.677350	1.678724	1.855015	2.086972
#1	-.183822	261777.9	2.387087	.6762533	251099.6	2.688695	5.532453
#2	.3731492	260919.2	2.489140	.6587921	249888.6	2.734757	5.651677
#3	-.149638	265642.0	2.293358	.6286697	257773.0	2.635191	5.420692
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	45.50377	23.16971	99871.91	7.673246	264643.0	24.67963	807.5550
SDEV	.64550	.23851	999.48	8.096294	2848.5	.30293	111.0402
%RSD	1.418561	1.029402	1.000766	105.5133	1.076342	1.227452	13.75018
#1	45.01452	23.40233	99297.05	10.95632	263093.0	24.47767	900.3573
#2	45.26143	23.18108	99292.67	13.61235	262905.6	24.53326	837.7745
#3	46.23537	22.92571	101026.0	-1.54893	267930.3	25.02795	684.5331
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.87302	-.432412	.5094479	34.99757	14.34029	-1.32074	.9492571
SDEV	.49288	2.386521	.0476777	.25575	.92779	3.05753	.8423205
%RSD	2.253371	551.9087	9.358689	.7307673	6.469818	231.5024	88.73471
#1	21.32735	2.239434	.5137185	34.87763	13.32674	-.853261	1.449044
#2	22.28589	-1.18403	.5548466	34.82384	14.54651	-4.58509	1.421973
#3	22.00583	-2.35264	.4597787	35.29125	15.14762	1.476141	-.023245
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.91316	10.50682	16.24904	2.153119	.3441384	-6.09566	1.059055
SDEV	.64290	.97988	1.65444	1.030067	1.754026	1.43666	4.336266
%RSD	33.60403	9.326097	10.18175	47.84071	509.6862	23.56861	409.4469
#1	-1.63487	10.61601	14.67498	1.936253	1.201731	-4.50810	.9673443
#2	-1.45629	11.42754	16.09856	1.248750	1.504369	-7.30625	-3.23063
#3	-2.64832	9.476929	17.97357	3.274352	-1.67369	-6.47262	5.440449
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-8.24657	10.88049	-1.26009	-15.6107	-4.71488	2981.555
SDEV	2.28290	1.51262	.13105	3.8875	.49726	14.839
%RSD	27.68303	13.90210	10.39999	24.90286	10.54657	.4976856
#1	-5.82911	9.530392	-1.17965	-18.0870	-4.14109	2994.000
#2	-8.54504	10.59589	-1.18932	-11.1301	-5.02031	2985.533
#3	-10.3655	12.51520	-1.41131	-17.6152	-4.98323	2965.133
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/22/11 21:19:04
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	208.7613	251868.6	508.9480	483.5425	239068.2	975.2001	495.4821
SDEV	1.2141	14950.9	31.0841	30.0919	15892.5	60.1648	30.3337
%RSD	.5815623	5.935978	6.107525	6.223223	6.647666	6.169483	6.122054
#1	209.3129	260675.3	527.2656	501.5269	248446.7	1013.689	514.3807
#2	207.3693	234606.0	473.0577	448.8025	220718.6	905.8682	460.4933
#3	209.6016	260324.5	526.5207	500.2979	248039.2	1006.043	511.5722
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	537.9305	539.4626	95930.12	6.460609	253974.2	517.6107	820.2812
SDEV	33.6164	5.8116	5961.46	12.76522	15951.7	31.9765	148.5225
%RSD	6.249215	1.077298	6.214374	197.5853	6.280837	6.177706	18.10629
#1	558.2359	541.7983	99631.94	20.46954	264043.0	537.0866	972.3240
#2	499.1276	532.8465	89053.15	-4.51414	235582.4	480.7064	675.5489
#3	556.4280	543.7430	99105.30	3.426431	262297.3	535.0391	812.9710
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1016.221	97.86279	502.8281	1026.070	64.25424	46.89776	621.1321
SDEV	61.589	9.52358	31.0795	65.683	1.94971	3.32752	29.8974
%RSD	6.060633	9.731561	6.180932	6.401448	3.034373	7.095269	4.813373
#1	1054.032	102.9797	521.7678	1064.961	65.39617	43.79146	636.3310
#2	945.1518	86.87454	466.9594	950.2338	62.00298	46.49244	586.6887
#3	1049.478	103.7341	519.7571	1063.015	65.36356	50.40937	640.3768
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	98.35527	59.03464	66.85583	624.8886	619.2540	37.72383	51.47387
SDEV	5.95517	4.09318	1.23743	23.1829	33.2717	3.28749	3.49448
%RSD	6.054758	6.933528	1.850886	3.709928	5.372871	8.714617	6.788839
#1	97.96727	62.70686	66.73471	635.3789	636.8033	35.61414	47.86990
#2	92.60358	54.62167	65.68343	598.3148	580.8817	36.04563	51.70427
#3	104.4950	59.77541	68.14937	640.9722	640.0770	41.51171	54.84745
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	930.4935	975.6964	947.5785	945.0560	966.5137	3071.177
SDEV	60.2848	60.3862	57.8710	62.3669	57.9652	155.573
%RSD	6.478794	6.189032	6.107249	6.599281	5.997352	5.065596
#1	969.8367	1017.079	981.0837	979.2352	1001.026	2979.133
#2	861.0893	906.4036	880.7549	873.0714	899.5923	3250.800
#3	960.5546	1003.606	980.8969	982.8615	998.9231	2983.600
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/22/11 21:26:06
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.35418	48217.80	952.3412	945.5532	48010.03	938.5395	937.6506
SDEV	.21516	304.71	5.5688	6.5480	1597.56	7.1465	6.3847
%RSD	.2304775	.6319447	.5847516	.6925016	3.327547	.7614530	.6809289
#1	93.57755	48507.82	957.7717	952.2747	49733.35	946.3353	944.0775
#2	93.14830	48245.31	952.6083	945.1914	47718.29	936.9852	937.5654
#3	93.33669	47900.27	946.6437	939.1937	46578.45	932.2981	931.3089
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	955.4257	956.7653	23831.72	47399.99	47819.01	937.4526	49154.92
SDEV	6.8219	.4358	176.13	272.78	356.39	6.3965	305.96
%RSD	.7140186	.0455453	.7390651	.5754899	.7452792	.6823245	.6224404
#1	962.1793	956.2623	24015.38	47671.37	48190.03	944.0095	49409.70
#2	955.5601	957.0051	23815.57	47402.78	47787.66	937.1185	49239.48
#3	948.5375	957.0286	23664.23	47125.83	47479.33	931.2297	48815.57
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	951.2416	960.4850	958.8514	1021.003	942.4899	951.4897	987.5599
SDEV	6.7392	5.4316	5.9862	6.553	7.5163	9.7016	10.3348
%RSD	.7084677	.5655100	.6243120	.6418195	.7974946	1.019625	1.046496
#1	958.6204	963.8748	965.0963	1027.446	950.7769	962.2626	997.5994
#2	949.6931	963.3601	958.2954	1021.218	940.5804	948.7641	988.1271
#3	945.4114	954.2201	953.1626	1014.346	936.1126	943.4424	976.9532
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	955.2902	937.1424	945.1548	983.3022	989.6820	942.2989	956.0742
SDEV	7.2157	6.8839	7.8728	10.2756	10.3650	5.2490	12.2696
%RSD	.7553363	.7345652	.8329666	1.045008	1.047310	.5570391	1.283334
#1	961.1610	944.3659	953.9725	993.3741	999.7052	946.7328	970.0118
#2	957.4750	936.4036	942.6607	983.6981	990.3348	943.6607	951.3080
#3	947.2347	930.6576	938.8311	972.8343	979.0060	936.5033	946.9028
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	955.6846	955.3791	975.0545	968.7284	996.6475	3069.378
SDEV	7.9321	5.4105	4.0173	8.5196	4.4169	18.492
%RSD	.8299936	.5663185	.4120105	.8794604	.4431767	.6024588
#1	964.7357	961.5365	979.0915	977.1257	1000.448	3051.467
#2	952.3741	951.3848	975.0149	968.9678	997.6924	3068.266
#3	949.9440	953.2160	971.0571	960.0916	991.8018	3088.400
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/22/11 21:33:07
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.060595	25.24011	-.348322	.1264128	4.609102	.0142252	.5346922
SDEV	.274601	3.28238	.031210	.0256644	.094647	.0460600	.0637285
%RSD	453.1730	13.00461	8.959979	20.30203	2.053477	323.7929	11.91873
#1	.0903372	27.64685	-.317177	.1479156	4.515019	.0580023	.5431457
#2	-.377557	26.57242	-.348194	.0980012	4.704302	-.033821	.4671588
#3	.1054342	21.50105	-.379596	.1333217	4.607985	.0184938	.5937720
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4460475	-.266717	9.627628	10.21504	18.74726	-.135650	10.48756
SDEV	.0700003	.101181	3.671634	1.25197	.99644	.031533	55.19970
%RSD	15.69347	37.93559	38.13643	12.25615	5.315120	23.24580	526.3351
#1	.5104668	-.367829	13.80762	8.978732	18.26622	-.118263	-27.8625
#2	.4561187	-.266852	8.151333	10.18429	18.08262	-.116637	-14.4278
#3	.3715571	-.165468	6.923930	11.48211	19.89296	-.172048	73.75297
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5732564	.0400406	.3664100	.0568550	1.218789	Q-6.24094	.1914116
SDEV	.1552851	3.304699	.2670205	.0606110	.381388	.94808	1.438845
%RSD	27.08824	8253.370	72.87476	106.6064	31.29234	15.19135	751.7021
#1	.6594242	3.239860	.2787123	.1096851	.7796831	Q-7.27374	1.852430
#2	.6663517	.2406610	.1542672	.0701945	1.467425	Q-6.03895	-.606869
#3	.3939932	-3.36040	.6662506	-.009315	1.409260	Q-5.41013	-.671327
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC FAIL	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.061125	-2.69432	3.168456	1.267180	-.349620	-8.63343	-5.05044
SDEV	2.097627	1.44420	.825238	2.778722	1.112129	3.04390	.58246
%RSD	197.6795	53.60158	26.04542	219.2840	318.0968	35.25717	11.53286
#1	3.123429	-3.15322	2.739245	4.162224	.6953246	-12.1429	-4.84676
#2	1.130070	-3.85331	4.119846	-1.37840	-.225640	-6.71098	-5.70739
#3	-1.07012	-1.07643	2.646278	1.017713	-1.51854	-7.04642	-4.59718
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.610858	3.534565	-.195892	4.442396	.2577936	3079.111
SDEV	1.654837	2.338062	1.060532	1.516145	1.004818	9.138
%RSD	270.9038	66.14853	541.3868	34.12898	389.7763	.2967855
#1	1.257987	1.137526	1.025876	6.143215	1.376703	3089.333
#2	-1.89032	3.657357	-.734726	3.232675	-.035782	3076.266
#3	-1.20024	5.808811	-.878825	3.951297	-.567540	3071.733
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-11 OPERATOR:
RUN TIME: 03/22/11 21:40:12
COMMENT: SDG:1103086 CLIENTID:CMW-3S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2342040	40.32014	30.28787	-.054582	131679.4	-.161820	.5009035
SDEV	.7812583	13.53054	1.27068	.010403	6895.8	.100870	.3526357
%RSD	333.5803	33.55777	4.195344	19.06005	5.236776	62.33475	70.39992
#1	-.413728	28.92296	29.18882	-.064682	125551.0	-.266242	.1079126
#2	.0145679	55.27366	31.67924	-.055163	139146.3	-.064924	.6050924
#3	1.101772	36.76379	29.99555	-.043900	130341.0	-.154292	.7897056
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1374193	.2148938	-3.00843	853.8071	30262.49	.1648637	2397.301
SDEV	.1843010	.4953238	10.42565	43.0995	1230.17	.0860256	158.958
%RSD	134.1158	230.4971	346.5485	5.047926	4.065017	52.17982	6.630693
#1	-.001449	-.234624	-9.61136	810.9348	29242.82	.0664778	2225.412
#2	.0671982	.1333910	-8.42448	897.1304	31628.79	.2022008	2538.996
#3	.3465087	.7459142	9.010564	853.3560	29915.85	.2259126	2427.496
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3036499	.2975794	.1361025	2.319776	.2707183	-4.75229	-1.14793
SDEV	.4116692	2.930786	.4573546	.143758	.5360676	1.70094	1.31657
%RSD	135.5736	984.8754	336.0370	6.197073	198.0167	35.79195	114.6909
#1	.0827506	3.219120	-.362758	2.197302	.7735314	-4.50147	-2.20809
#2	.0495805	.3159845	.2354437	2.478052	.3319662	-6.56471	.3257651
#3	.7786187	-2.64237	.5356219	2.283974	-.293343	-3.19069	-1.56147
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.12178	-2.15745	1.478942	-.096391	-1.67695	-7.05345	-3.60748
SDEV	.45563	1.10557	1.089955	3.132780	3.45054	4.59748	1.13834
%RSD	40.61654	51.24410	73.69827	3250.084	205.7625	65.18053	31.55489
#1	-.901352	-3.15218	2.729514	3.300509	-4.96219	-8.79668	-2.36102
#2	-.818286	-.967149	.9763507	-2.87193	1.918015	-10.5244	-4.59205
#3	-1.64571	-2.35303	.7309616	-.717755	-1.98669	-1.83930	-3.86937
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.023829	.8623297	-.773836	-.969421	19.95069	3017.644
SDEV	1.244181	4.986437	.354625	7.637721	.70479	101.206
%RSD	121.5224	578.2518	45.82686	787.8640	3.532643	3.353821
#1	1.484828	-3.61084	-1.18105	-8.21961	19.15616	3098.666
#2	-.385058	6.238598	-.607513	-1.69299	20.19545	2904.200
#3	1.971718	-.040766	-.532943	7.004334	20.50048	3050.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-13 OPERATOR:
RUN TIME: 03/22/11 21:47:13
COMMENT: SDG:1103086 CLIENTID:MW-B7D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.405386	10.67685	51.60717	-.072948	62011.61	-.099901	.4897613
SDEV	.251726	2.77666	.36450	.008183	127.54	.116669	.0939235
%RSD	62.09536	26.00640	.7062908	11.21805	.2056643	116.7847	19.17740
#1	-.288097	8.487369	51.44450	-.081813	62136.88	.0261807	.5641311
#2	-.233708	9.743157	51.35234	-.065682	62016.02	-.204042	.5209390
#3	-.694353	13.80001	52.02468	-.071350	61881.92	-.121842	.3842136
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.115307	.0899186	864.5053	556.2983	17727.98	216.1983	6610.179
SDEV	.274976	.3563632	8.9167	8.8017	159.85	1.7109	129.549
%RSD	238.4719	396.3176	1.031427	1.582185	.9016907	.7913777	1.959835
#1	.1725630	.2896756	859.1533	565.0162	17626.68	215.0919	6740.950
#2	-.143227	.3015968	859.5638	556.4636	17645.00	215.3341	6607.698
#3	-.375258	-.321517	874.7987	547.4152	17912.26	218.1690	6481.889
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9616297	-2.99003	.0586347	4.433528	1.307179	-3.41823	-.559165
SDEV	.0433435	1.35450	.1061974	.073519	.369869	2.60208	.942409
%RSD	4.507297	45.30057	181.1168	1.658261	28.29517	76.12367	168.5385
#1	1.001511	-1.72979	.1808392	4.515428	1.132296	-6.20247	.5179712
#2	.9155016	-4.42235	.0063323	4.411930	1.732060	-1.04794	-.963692
#3	.9678771	-2.81796	-.011267	4.373227	1.057183	-3.00427	-1.23178
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.174737	-1.22200	2.565238	-.905881	-.390059	-1.49906	-4.38036
SDEV	1.239146	1.51100	1.174621	1.052283	.974061	3.06849	3.97470
%RSD	56.97913	123.6497	45.78995	116.1614	249.7216	204.6946	90.73914
#1	3.319395	.4796836	1.453200	.0880947	.7286059	-.667314	-8.96988
#2	2.345914	-2.40649	3.793762	-.797633	-1.05057	1.067819	-2.10821
#3	.8589015	-1.73919	2.448751	-2.00810	-.848212	-4.89768	-2.06300
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.430689	3.085266	-.380989	-2.69990	25.98737	3052.089
SDEV	1.760661	3.409643	.424571	3.63854	.51563	17.570
%RSD	123.0639	110.5137	111.4392	134.7657	1.984172	.5756620
#1	2.661742	6.020863	-.870392	-.789731	25.52296	3059.266
#2	-.586020	3.889551	-.161253	-.414242	26.54226	3064.933
#3	2.216344	-.654617	-.111321	-6.89572	25.89689	3032.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-14 OPERATOR:
RUN TIME: 03/22/11 21:54:13
COMMENT: SDG:1103086 CLIENTID:MW-S1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2207605	17.82204	22.37664	-.065011	12201.13	-.219865	.8901383
SDEV	.6747615	2.21430	.08966	.019961	947.54	.027914	.1175715
%RSD	305.6532	12.42449	.4006923	30.70373	7.766024	12.69576	13.20823
#1	-.108968	18.49389	22.33189	-.053710	11648.34	-.202014	.8266676
#2	-.225737	19.62260	22.47987	-.088058	11659.81	-.252032	1.025805
#3	.9969858	15.34963	22.31817	-.053264	13295.24	-.205549	.8179426
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4368586	1.168117	263.2425	818.0693	4627.249	17.31074	130112.0
SDEV	.0319770	.271846	1.9153	16.6190	19.546	.00987	210.8
%RSD	7.319761	23.27219	.7275811	2.031488	.4224074	.0570037	.1620216
#1	.4565495	1.044905	261.8814	812.2721	4623.550	17.30452	130159.5
#2	.3999626	.9796936	265.4327	836.8104	4648.381	17.32212	130295.0
#3	.4540636	1.479752	262.4135	805.1254	4609.818	17.30558	129881.5
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.631986	-2.11832	.2238708	13.96652	.4609320	-2.78124	-.583745
SDEV	.335259	2.55454	.1462443	.30830	.5375215	2.60694	.621491
%RSD	9.230729	120.5932	65.32533	2.207402	116.6162	93.73305	106.4661
#1	3.534485	.8186785	.2941243	13.61085	.2640659	.2045244	.0659941
#2	4.005188	-3.82397	.3217318	14.15747	.0495982	-4.60586	-1.17249
#3	3.356285	-3.34965	.0557563	14.13124	1.069132	-3.94238	-.644740
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.294942	-2.86271	2.115810	1.477437	-1.61675	-5.93489	-1.21073
SDEV	.704711	.65462	1.132044	.947850	.95770	2.39812	2.93115
%RSD	9.660268	22.86701	53.50406	64.15499	59.23640	40.40722	242.0974
#1	7.165120	-2.56949	1.674266	2.129483	-.968164	-3.37717	1.988724
#2	8.055538	-2.40596	1.271076	1.912694	-2.71673	-6.29477	-3.76663
#3	6.664169	-3.61267	3.402088	.3901350	-1.16535	-8.13274	-1.85429
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.275941	1.279319	15.95257	8.110455	1995.259	3077.222
SDEV	.480531	.604345	.33995	2.806233	7.913	8.230
%RSD	174.1425	47.23963	2.130993	34.60019	.3966117	.2674550
#1	-.660429	.6931301	15.59137	4.899032	1997.577	3073.867
#2	-.430162	1.244510	16.26627	9.341979	2001.755	3071.200
#3	.2627665	1.900316	16.00006	10.09035	1986.446	3086.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-15 OPERATOR:
RUN TIME: 03/22/11 22:01:13
COMMENT: SDG:1103086 CLIENTID:PW-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3338496	10.61207	114.9019	-.077193	84714.07	-.036157	.8099948
SDEV	.6003112	12.58204	3.3185	.011891	2308.08	.108020	.1773619
%RSD	179.8149	118.5635	2.888124	15.40442	2.724556	298.7502	21.89667
#1	1.026984	25.13817	118.7263	-.066805	87378.45	.0038627	1.000889
#2	-.019551	3.577398	112.7815	-.074612	83326.37	.0461417	.6503066
#3	-.005885	3.120651	113.1981	-.090163	83437.41	-.158476	.7787893
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3839348	1.087390	3241.937	1176.112	24401.08	85.85135	15075.80
SDEV	.3407310	.317111	88.233	49.437	694.25	2.54056	521.48
%RSD	88.74711	29.16256	2.721599	4.203388	2.845177	2.959259	3.459055
#1	.7770191	1.446536	3343.812	1232.785	25202.30	88.78255	15675.65
#2	.1728616	.9696203	3189.948	1141.850	23977.53	84.28321	14730.26
#3	.2019237	.8460129	3192.050	1153.702	24023.42	84.48828	14821.50
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.492124	-4.38489	.4557993	4.633434	-.044431	-3.84921	-.082257
SDEV	.481841	2.35161	.2763386	.330938	.825441	1.23814	1.054281
%RSD	13.79793	53.62986	60.62726	7.142397	1857.798	32.16604	1281.694
#1	4.045467	-3.02741	.7745874	5.014866	.9047532	-2.55192	1.000880
#2	3.265742	-7.10029	.3083890	4.462786	-.443928	-3.97752	-1.10509
#3	3.165163	-3.02697	.2844214	4.422652	-.594119	-5.01821	-.142557
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.367598	-3.46548	1.658943	2.920930	-1.58568	-5.06739	-3.24512
SDEV	1.477116	3.08096	2.762400	5.808380	2.20131	6.23051	4.93654
%RSD	17.65281	88.90413	166.5157	198.8538	138.8244	122.9532	152.1218
#1	8.817788	-7.00359	4.848203	9.163701	-3.07867	-12.1101	2.215721
#2	9.567237	-1.37449	.0161753	1.922780	-2.62075	-2.81880	-4.55999
#3	6.717768	-2.01837	.1124492	-2.32369	.9423854	-.273295	-7.39110
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.567992	2.267500	-.426796	7.420453	238.6120	2990.711
SDEV	2.636398	1.608584	.923198	5.678474	6.3430	112.522
%RSD	464.1613	70.94088	216.3089	76.52463	2.658281	3.762377
#1	1.097309	4.034978	.0921136	13.97575	245.9345	2860.800
#2	-3.60760	1.878290	-1.49269	4.015789	235.0868	3057.533
#3	.8063188	.8892315	.1201881	4.269820	234.8146	3053.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-16 OPERATOR:
RUN TIME: 03/22/11 22:08:13
COMMENT: SDG:1103086 CLIENTID:CMW-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2094564	11.97618	110.7587	-.044287	81785.32	-.197351	.5779791
SDEV	.2641971	1.43654	.2654	.014712	405.06	.059994	.0876331
%RSD	126.1347	11.99497	.2396492	33.21914	.4952739	30.39985	15.16199
#1	.5101587	10.49304	110.5552	-.039483	81518.15	-.145815	.6791167
#2	.0145667	12.07443	110.6620	-.060800	81586.44	-.183028	.5245872
#3	.1036436	13.36107	111.0589	-.032577	82251.38	-.263211	.5302337
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4384353	.5383905	1947.549	933.7224	24192.28	83.10780	20205.84
SDEV	.4433742	.0253489	1.836	4.0658	57.33	.04891	128.41
%RSD	101.1265	4.708282	.0942925	.4354391	.2369730	.0588509	.6354966
#1	.9479949	.5234352	1946.134	935.1448	24180.47	83.06911	20184.59
#2	.2265789	.5240776	1949.624	929.1364	24141.78	83.09150	20089.38
#3	.1407320	.5676585	1946.888	936.8857	24254.60	83.16277	20343.55
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.512496	-2.94639	.2679289	2.554285	-.106645	-4.31129	-.915186
SDEV	.431048	1.43427	.1357688	.050192	.393143	1.03886	1.148025
%RSD	17.15615	48.67897	50.67345	1.965021	368.6476	24.09626	125.4417
#1	2.985868	-2.37970	.4170950	2.544680	.3470920	-3.55407	.3986420
#2	2.142613	-4.57742	.2351223	2.608586	-.345899	-3.88417	-1.72492
#3	2.409008	-1.88203	.1515694	2.509589	-.321126	-5.49562	-1.41928
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	15.62234	-1.43030	.5499076	1.379236	-2.06463	-7.98141	-2.48293
SDEV	1.30713	2.13939	1.656791	3.324927	1.19055	3.18374	2.87688
%RSD	8.367080	149.5766	301.2853	241.0703	57.66397	39.88941	115.8661
#1	14.18168	-3.88749	2.457228	4.579516	-1.69264	-11.6525	.4850965
#2	16.73250	.0187997	-.532410	1.615886	-3.39676	-6.31434	-2.67484
#3	15.95284	-.422195	-.275094	-2.05769	-1.10449	-5.97737	-5.25905
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.470960	2.217969	.2503546	5.319266	301.4397	3081.133
SDEV	1.035129	.485827	.3574822	1.972822	1.3637	19.992
%RSD	70.37100	21.90415	142.7904	37.08825	.4523999	.6488655
#1	2.662893	1.785787	.4059070	7.526598	300.5444	3058.333
#2	.9522274	2.124314	-.158550	3.727961	300.7655	3089.400
#3	.7977601	2.743805	.5037069	4.703238	303.0092	3095.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-17 OPERATOR:
RUN TIME: 03/22/11 22:15:13
COMMENT: SDG:1103086 CLIENTID:PW-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1770445	43.81166	335.2762	-.092339	28122.46	-.166758	1.160681
SDEV	.9259134	6.25002	1.4530	.063651	575.75	.066090	.414836
%RSD	522.9835	14.26566	.4333738	68.93253	2.047302	39.63245	35.74075
#1	1.245473	50.30460	336.2011	-.029273	28427.58	-.134964	1.622874
#2	-.391240	43.29356	336.0261	-.156560	28481.44	-.242737	.8206241
#3	-.323100	37.83681	333.6015	-.091182	27458.37	-.122574	1.038545
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.430548	1.741741	334.0329	73711.41	7124.992	28.38673	104633.8
SDEV	.420225	.889646	9.6598	277.85	33.051	.19094	312.4
%RSD	29.37514	51.07795	2.891885	.3769382	.4638750	.6726226	.2985594
#1	1.894845	2.767405	344.6365	73859.70	7144.854	28.47844	104660.9
#2	1.076291	1.278712	325.7335	73883.65	7143.284	28.51452	104931.7
#3	1.320508	1.179107	331.7288	73390.88	7086.839	28.16725	104308.7
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.614488	.3071775	.1723338	8.341678	.5105394	-2.89832	-.358552
SDEV	.278512	2.650821	.1735861	.119061	.4261490	.90208	.644282
%RSD	4.960599	862.9606	100.7267	1.427302	83.47034	31.12407	179.6901
#1	5.903898	3.224715	.3454688	8.461678	.6935080	-2.84297	-1.03056
#2	5.348331	-.349826	.1732327	8.339776	.8146495	-2.02520	.2538622
#3	5.591233	-1.95336	-.001700	8.223579	.0234608	-3.82680	-.298957
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.451669	-2.88603	2.201811	.3374180	-.709935	-5.40906	-1.64875
SDEV	1.143282	3.81591	2.013774	3.761400	2.836640	5.06294	2.43947
%RSD	33.12259	132.2200	91.45990	1114.760	399.5632	93.60097	147.9586
#1	3.292024	-6.98801	4.524094	4.495186	-3.79322	-10.8136	1.132473
#2	4.666383	.5583409	.9380121	-2.82906	1.789077	-.776442	-2.65257
#3	2.396600	-2.22843	1.143328	-.653876	-.125667	-4.63710	-3.42616
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.172618	1.837945	-.321909	3.755452	316.1388	3105.755
SDEV	1.007138	1.181004	.591654	10.73342	2.1008	12.129
%RSD	583.4504	64.25677	183.7955	285.8090	.6645110	.3905181
#1	.0310800	.7454847	.2561696	16.11448	317.8972	3101.666
#2	-1.26603	1.677303	-.926262	-3.22851	316.7066	3096.200
#3	.7171018	3.091048	-.295633	-1.61961	313.8124	3119.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-18 OPERATOR:
RUN TIME: 03/22/11 22:22:13
COMMENT: SDG:1103086 CLIENTID:CMW-1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2252498	24.18569	131.9049	-.070647	88846.44	-.190785	.4555860
SDEV	.6404788	.60419	1.2640	.021185	2275.27	.046105	.0764671
%RSD	284.3416	2.498133	.9582972	29.98765	2.560900	24.16574	16.78433
#1	.6682233	24.55421	130.4948	-.073628	87919.45	-.145429	.4732118
#2	-.509115	23.48841	132.9363	-.090184	87181.00	-.189323	.5217012
#3	.5166411	24.51445	132.2836	-.048129	91438.87	-.237604	.3718451
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2823762	.9162233	448.3245	1127.577	25956.36	139.2464	16981.04
SDEV	.2685576	.1882758	6.7621	10.539	196.29	1.2009	200.22
%RSD	95.10632	20.54912	1.508316	.9346207	.7562311	.8624213	1.179074
#1	.5630810	1.123832	444.3599	1117.101	25739.61	137.9057	16755.29
#2	.2561590	.7565462	456.1325	1138.177	26122.12	140.2234	17137.12
#3	.0278887	.8682918	444.4813	1127.454	26007.36	139.6101	17050.69
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.590914	-2.48648	.1969861	9.431477	.9091098	-1.97925	-.166682
SDEV	.312231	.66777	.2764268	.173707	.6985329	2.76602	.513608
%RSD	12.05100	26.85625	140.3281	1.841783	76.83701	139.7510	308.1375
#1	2.914647	-2.51182	.4035455	9.302876	1.600778	-5.17206	.3469545
#2	2.566474	-1.80639	-.117034	9.362472	.2039090	-.455821	-.166737
#3	2.291621	-3.14122	.3044472	9.629084	.9226424	-.309865	-.680262
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.314493	-2.59771	2.655457	3.274191	-1.88848	-2.88738	-1.52980
SDEV	2.085768	1.19842	.685922	1.118946	.57808	4.60744	1.87963
%RSD	158.6747	46.13393	25.83067	34.17473	30.61103	159.5716	122.8675
#1	3.662436	-2.10631	3.447137	3.533454	-1.24782	-8.18741	-3.67057
#2	-.324021	-3.96373	2.280152	4.240748	-2.37113	.1636524	-.769051
#3	.6050624	-1.72309	2.239082	2.048372	-2.04648	-.638391	-.149795
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.5758247	.7179366	.4561378	1.412667	262.4691	3090.933
SDEV	2.422364	1.499225	.1975149	3.654300	1.5856	16.832
%RSD	420.6773	208.8242	43.30158	258.6810	.6041172	.5445683
#1	-1.18350	-.828325	.3355791	4.655924	260.8426	3110.000
#2	3.338684	.8169143	.3487529	-2.54667	264.0104	3078.133
#3	-.427713	2.165221	.6840815	2.128744	262.5541	3084.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103086-19 OPERATOR:
RUN TIME: 03/22/11 22:29:13
COMMENT: SDG:1103086 CLIENTID:CMW-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.118202	8.861154	112.1912	-.062536	86911.13	-.050680	.4760439
SDEV	.430248	1.433259	.2005	.012219	740.72	.084214	.1510861
%RSD	363.9947	16.17463	.1786791	19.53937	.8522705	166.1691	31.73786
#1	.2766418	7.233404	112.2855	-.055910	86342.37	.0412125	.6492668
#2	-.576751	9.416080	112.3272	-.076637	87748.73	-.124173	.4073871
#3	-.054496	9.933977	111.9610	-.055061	86642.30	-.069078	.3714777
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1506248	-.083208	3351.662	842.4271	25602.99	133.3876	15995.31
SDEV	.1558966	.211239	3.148	2.8945	41.84	.2060	125.61
%RSD	103.4999	253.8685	.0939252	.3435884	.1634111	.1544251	.7852620
#1	-.028682	.1585506	3352.928	844.6749	25615.33	133.4833	15904.54
#2	.2264726	-.176043	3353.979	839.1611	25637.28	133.5283	16138.66
#3	.2540837	-.232132	3348.078	843.4451	25556.38	133.1512	15942.74
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.170089	-6.05092	.2744775	3.189417	.9064192	-1.53524	-.383480
SDEV	.278354	2.30660	.1790545	.051751	.5389270	1.34043	1.509016
%RSD	8.780634	38.11992	65.23467	1.622598	59.45671	87.31060	393.5060
#1	3.292778	-8.56918	.4785098	3.170415	1.015292	-.097528	-1.40683
#2	3.366022	-5.54292	.2014206	3.247983	.3213677	-1.75763	1.349545
#3	2.851468	-4.04066	.1435022	3.149853	1.382598	-2.75058	-1.09316
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.237310	-2.07459	2.390252	2.310519	-1.73240	-.361528	-2.12517
SDEV	2.366839	.81538	.609115	1.908653	1.32921	4.404096	1.84393
%RSD	28.73315	39.30307	25.48331	82.60712	76.72665	1218.189	86.76643
#1	7.264187	-1.28313	2.158328	.7555058	-2.49033	4.042776	-2.16853
#2	6.512154	-2.91194	1.931166	4.440580	-.197597	-4.76542	-.259935
#3	10.93559	-2.02869	3.081261	1.735469	-2.50928	-.361946	-3.94703
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.9755647	1.240865	-.544185	.7189155	314.9950	3088.755
SDEV	1.189438	.582398	.279853	1.640568	.1226	9.747
%RSD	121.9230	46.93486	51.42618	228.2004	.0389326	.3155556
#1	-.352118	.5819371	-.866624	2.243456	315.1223	3078.266
#2	1.334926	1.686726	-.364453	-1.01716	314.8776	3090.467
#3	1.943885	1.453932	-.401478	.9304490	314.9850	3097.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1031711-BLK1 OPERATOR:
RUN TIME: 03/22/11 22:36:13
COMMENT: SDG:1103068 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4130259	3.195102	-.486590	-.066508	4.498832	-.098331	.4330371
SDEV	.2915702	3.198700	.040751	.021220	.020220	.200366	.0717818
%RSD	70.59369	100.1126	8.374744	31.90536	.4494432	203.7665	16.57635
#1	.2482126	5.750749	-.500408	-.059074	4.475884	.1150991	.5101751
#2	.7496777	4.226647	-.440728	-.050006	4.514030	-.282390	.3682018
#3	.2411873	-.392089	-.518636	-.090445	4.506581	-.127702	.4207343
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2158446	.1225086	7.488053	8.796423	.9290719	-.267617	124.0463
SDEV	.2144688	.3065715	6.833805	1.374586	1.785870	.018530	36.9429
%RSD	99.36259	250.2448	91.26278	15.62665	192.2209	6.924002	29.78156
#1	.3658424	.1336866	8.395494	10.22637	2.846166	-.249453	163.5753
#2	.3114986	.4233383	13.82280	8.678048	.6284729	-.266905	90.39397
#3	-.029807	-.189499	.2458636	7.484852	-.687423	-.286492	118.1695
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6670933	-.497956	.1610571	.8280533	.2774043	-4.49973	.2907960
SDEV	.1204197	2.162354	.0531803	.0491534	.1659407	1.66250	.1067363
%RSD	18.05141	434.2459	33.01953	5.936023	59.81907	36.94671	36.70489
#1	.7508762	-.633922	.2107677	.8846736	.0929172	-6.01360	.4117153
#2	.7213072	-2.58912	.1049802	.8031584	.3248183	-4.76509	.2509888
#3	.5290965	1.729172	.1674234	.7963278	.4144775	-2.72051	.2096838
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0472429	-1.12730	.9748055	2.628083	-.880020	-5.40292	-4.05274
SDEV	1.343797	.96071	.2972116	2.599504	1.167803	4.28314	1.21681
%RSD	2844.440	85.22232	30.48932	98.91256	132.7018	79.27456	30.02437
#1	.9457680	-2.19484	1.231162	4.761311	-1.76374	-7.32328	-5.36366
#2	.6935531	-.332307	.6490272	3.390244	-1.32023	-8.38983	-2.95939
#3	-1.49759	-.854756	1.044228	-.267307	.4439067	-.495659	-3.83518
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.08462	2.818874	-1.20384	9.134127	-.739442	3100.911
SDEV	2.17632	1.850390	.54289	2.759930	.720149	10.605
%RSD	200.6529	65.64288	45.09675	30.21559	97.39079	.3419942
#1	-3.46906	3.520083	-.577021	10.20292	-.080332	3105.400
#2	-.579543	.7203643	-1.52484	11.19982	-.629914	3088.800
#3	.7947519	4.216176	-1.50965	5.999639	-1.50808	3108.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1031711-BS1 OPERATOR:
RUN TIME: 03/22/11 22:43:13
COMMENT: SDG:1103068 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	488.7754	2569.289	500.4181	480.6884	10024.55	492.9502	498.2005
SDEV	.9093	9.008	2.0382	2.2168	42.90	3.1634	2.4378
%RSD	.1860351	.3506087	.4073020	.4611794	.4279844	.6417273	.4893197
#1	487.8338	2572.840	500.7737	481.1569	10051.69	493.5892	498.9102
#2	489.6486	2575.981	502.2552	482.6336	10046.87	495.7453	500.2047
#3	488.8438	2559.047	498.2255	478.2748	9975.087	489.5161	495.4866
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	594.0000	2978.000	602.0000	591.0000	12216.00	592.0000	595.0000
LOW	396.0000	1986.000	402.0000	395.0000	8144.000	395.0000	397.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	498.0147	508.5413	5070.088	8961.103	5871.016	487.1569	10357.88
SDEV	2.4064	.9174	28.367	37.436	30.807	2.2647	181.40
%RSD	.4832078	.1803934	.5594913	.4177557	.5247230	.4648880	1.751365
#1	499.4639	507.5217	5082.540	8954.413	5878.204	487.9280	10371.18
#2	499.3433	509.2998	5090.100	9001.434	5897.593	488.9353	10532.26
#3	495.2369	508.8025	5037.626	8927.465	5837.251	484.6072	10170.19
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	588.0000	6128.000	12009.00	7203.000	594.0000	12046.00
LOW	392.0000	392.0000	4086.000	8007.000	4803.000	396.0000	8031.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	500.7768	1019.573	500.9557	970.2567	996.8506	984.2436	999.9687
SDEV	2.6717	6.934	2.0546	4.0233	5.3671	2.3442	5.7147
%RSD	.5335121	.6801009	.4101428	.4146635	.5384069	.2381776	.5714905
#1	501.4674	1021.216	501.0268	970.9816	1001.384	986.2553	1006.121
#2	503.0355	1025.538	502.9739	973.8683	998.2437	984.8063	998.9587
#3	497.8276	1011.965	498.8664	965.9203	990.9243	981.6692	994.8262
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	590.0000	1232.000	601.0000	1200.000	1195.000	1206.000	1190.000
LOW	394.0000	822.0000	401.0000	800.0000	797.0000	804.0000	794.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	988.3461	993.7263	998.7535	995.7207	1002.086	984.7263	983.9987
SDEV	6.7268	3.6210	6.2421	3.5689	6.893	5.6243	.7076
%RSD	.6806109	.3643904	.6249939	.3584211	.6878592	.5711580	.0719150
#1	989.5839	996.8834	1003.976	998.9232	1009.711	989.5009	984.6309
#2	994.3681	994.5218	1000.444	996.3656	1000.250	986.1517	984.1307
#3	981.0864	989.7736	991.8400	991.8733	996.2967	978.5264	983.2342
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-4.94919	-.747380	-1.57550	.9568808	L-1.24145	3102.066
SDEV	.51366	1.966667	.33858	1.426495	.09695	13.077
%RSD	10.37875	263.1415	21.49021	149.0776	7.809281	.4215507
#1	-4.93633	-2.82295	-1.22875	2.210736	L-1.33908	3093.666
#2	-5.46916	1.088398	-1.90526	1.255034	L-1.24009	3095.400
#3	-4.44207	-.507591	-1.59247	-.595128	L-1.14520	3117.133
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/22/11 22:50:14
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	94.50358	49689.13	979.9390	968.4343	48455.80	962.9347	962.7130
SDEV	.28647	339.52	6.1965	5.6111	421.51	5.2509	5.6988
%RSD	.3031312	.6832828	.6323399	.5794037	.8698782	.5453050	.5919520
#1	94.17574	49952.52	984.9674	970.9636	48912.46	964.4335	964.7390
#2	94.62936	49305.96	973.0164	962.0037	48373.27	957.0974	956.2781
#3	94.70564	49808.91	981.8332	972.3356	48081.66	967.2733	967.1221
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	980.4196	978.0780	24390.40	48689.18	48934.09	961.4586	50358.80
SDEV	5.4178	1.6324	138.45	329.94	287.13	5.4342	297.68
%RSD	.5525972	.1668968	.5676503	.6776394	.5867686	.5652088	.5911263
#1	982.8252	979.8523	24428.35	48979.25	49029.30	964.1152	50596.85
#2	974.2156	976.6399	24236.93	48330.25	48611.44	955.2070	50025.03
#3	984.2181	977.7418	24505.92	48758.03	49161.52	965.0534	50454.51
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	976.1866	986.5815	983.6148	1049.036	971.7890	985.1345	1020.642
SDEV	4.8727	6.2855	5.7658	6.053	2.3764	1.3071	5.624
%RSD	.4991547	.6370953	.5861845	.5769586	.2445395	.1326788	.5510034
#1	978.1211	992.6379	986.8619	1052.612	970.0915	985.0989	1021.479
#2	970.6437	980.0897	976.9577	1042.048	970.7706	983.8456	1014.647
#3	979.7949	987.0170	987.0248	1052.449	974.5049	986.4590	1025.801
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	983.4061	966.5706	974.3903	1016.968	1022.473	980.6256	987.3816
SDEV	5.1892	7.4564	4.0869	6.214	9.129	9.4014	4.1038
%RSD	.5276753	.7714279	.4194266	.6110425	.8928399	.9587111	.4156285
#1	986.3893	970.8741	969.6968	1009.815	1027.298	989.9557	982.6702
#2	977.4142	957.9607	977.1621	1020.055	1011.944	971.1545	990.1776
#3	986.4149	970.8770	976.3120	1021.035	1028.177	980.7666	989.2969
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	981.9925	979.5471	997.7104	988.7985	1026.452	3056.266
SDEV	8.3294	7.8293	5.7631	6.2434	6.597	19.110
%RSD	.8482150	.7992747	.5776281	.6314123	.6426586	.6252874
#1	990.0821	983.9045	996.1838	983.5735	1028.377	3045.200
#2	973.4424	970.5086	992.8643	987.1092	1019.107	3078.333
#3	982.4530	984.2283	1004.083	995.7127	1031.872	3045.266
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/22/11 22:57:14
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4689876	9.057581	-.439198	.0146771	4.468098	-.039646	.8044634
SDEV	.5076698	4.339174	.125055	.0478283	.269931	.041806	.2196678
%RSD	108.2480	47.90655	28.47343	325.8695	6.041290	105.4493	27.30613
#1	1.054854	13.31907	-.295825	.0692436	4.164538	-.052005	1.057935
#2	.1933458	9.208990	-.495993	-.019984	4.558633	.0069466	.6859829
#3	.1587631	4.644683	-.525777	-.005229	4.681124	-.073880	.6694724
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2634866	-.199898	1.994003	14.78128	2.592798	-.230447	175.8303
SDEV	.1283325	.105978	4.727864	8.43030	2.784816	.011598	100.2869
%RSD	48.70550	53.01610	237.1042	57.03364	107.4058	5.033026	57.03618
#1	.4107606	-.099981	7.187239	22.79541	5.602410	-.223096	277.1523
#2	.1756366	-.311043	-2.06050	15.55962	2.068743	-.224428	173.7270
#3	.2040627	-.188670	.8552693	5.988795	.1072399	-.243818	76.61163
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4994003	-.234750	.4388190	.0792434	.5551138	-2.78197	-.277742
SDEV	.1240140	.801413	.3845620	.0442232	.7737415	1.46687	1.168759
%RSD	24.83259	341.3893	87.63569	55.80680	139.3843	52.72768	420.8071
#1	.3702880	.6737584	.8814958	.1239127	.7255866	-1.08830	1.042797
#2	.5103189	-.536620	.2477445	.0783374	-.289649	-3.64666	-1.17911
#3	.6175940	-.841390	.1872167	.0354802	1.229404	-3.61094	-.696914
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.29157	-2.10636	1.879827	.9147282	-.877112	-2.07113	-3.14088
SDEV	1.65404	1.41543	.456978	.7022232	1.589661	3.18056	2.76498
%RSD	72.17905	67.19795	24.30958	76.76852	181.2382	153.5662	88.03201
#1	-2.86079	-1.69377	1.929406	1.485525	.8177206	-2.26687	-.503945
#2	-3.58584	-3.68224	1.400081	1.128089	-2.33500	-5.14931	-2.90049
#3	-.428096	-.943066	2.309994	.1305706	-1.11405	1.202775	-6.01821
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.694093	4.161005	-.044580	7.284844	.3281623	3022.444
SDEV	2.893575	2.785043	.344217	3.280141	1.247868	10.914
%RSD	416.8857	66.93197	772.1340	45.02692	380.2594	.3611014
#1	2.622662	6.345442	.1084247	11.05273	1.562925	3010.133
#2	-2.00300	1.024859	.1966083	5.066830	.3539736	3026.266
#3	-2.70194	5.112715	-.438773	5.734973	-.932411	3030.933
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-01 OPERATOR:
RUN TIME: 03/22/11 23:04:15
COMMENT: SDG:1103068 CLIENTID:GW08-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2593633	3.544507	201.8189	-.061256	117416.9	-.035268	2.055252
SDEV	.1751988	.822040	.2119	.008349	1422.0	.089012	.206304
%RSD	67.54955	23.19195	.1049816	13.62976	1.211088	252.3861	10.03792
#1	.2967469	2.673301	201.5951	-.064118	115993.7	.0485098	2.153023
#2	.4128530	3.653768	202.0163	-.067799	117419.2	-.025591	2.194493
#3	.0684901	4.306454	201.8452	-.051853	118837.7	-.128724	1.818238
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3361694	.2118760	148.5657	2219.609	34019.31	1258.820	17383.78
SDEV	.1303111	.0558031	6.2528	8.056	55.13	1.686	122.32
%RSD	38.76351	26.33762	4.208801	.3629658	.1620499	.1339128	.7036184
#1	.3472014	.2679208	149.1665	2221.432	33956.56	1256.977	17413.46
#2	.4606139	.2113893	154.4964	2226.597	34059.94	1260.285	17488.53
#3	.2006931	.1563178	142.0341	2210.797	34041.43	1259.197	17249.36
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.721298	-1.86715	.1226384	2.049245	.0828431	-2.15882	.4402040
SDEV	.209656	1.38368	.2015488	.077707	.4759089	1.74257	.3121209
%RSD	4.440650	74.10651	164.3440	3.791965	574.4699	80.71850	70.90369
#1	4.961669	-3.07610	.3295885	2.133358	.4849866	-4.14943	.7641504
#2	4.576167	-.358023	.1113622	2.034247	.2061165	-.909275	.4150282
#3	4.626059	-2.16732	-.073036	1.980131	-.442574	-1.41775	.1414335
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.76339	-3.41060	1.822956	3.064474	-.873953	-3.76994	-1.35846
SDEV	1.55528	2.28963	.538465	2.287524	1.221620	2.55299	1.91874
%RSD	88.19804	67.13279	29.53801	74.64654	139.7810	67.71980	141.2444
#1	-.620955	-.963712	1.204248	1.975869	.1551978	-6.15832	-3.15049
#2	-1.13461	-3.76688	2.185649	5.692996	-2.22399	-4.07224	.6658494
#3	-3.53462	-5.50120	2.078971	1.524558	-.553068	-1.07925	-1.59073
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.5749245	-.548690	2.130660	-.055342	62.53347	3054.378
SDEV	.6712965	.174981	.840536	.926445	.10485	9.669
%RSD	116.7626	31.89073	39.44955	1674.035	.1676722	.3165470
#1	.9637299	-.395432	2.874498	.8209734	62.54147	3044.600
#2	.9612643	-.511290	2.298674	.0378704	62.63409	3054.600
#3	-.200221	-.739347	1.218807	-1.02487	62.42484	3063.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1031711-DUP1 OPERATOR:
RUN TIME: 03/22/11 23:11:16
COMMENT: SDG:1103068 CLIENTID:GW08-0311D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3792120	10.50480	206.0684	-.031435	119025.7	-.057114	2.524073
SDEV	.9798379	2.85710	.6055	.012592	1638.2	.172874	.119200
%RSD	258.3879	27.19808	.2938276	40.05518	1.376383	302.6798	4.722522
#1	-.748862	8.257629	206.5774	-.042577	120915.5	-.253027	2.583739
#2	.8679589	13.72020	206.2290	-.017775	118153.3	.0076904	2.386823
#3	1.018539	9.536560	205.3988	-.033954	118008.2	.0739935	2.601659
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3980627	.1858830	155.3540	2286.555	34773.71	1286.477	17808.92
SDEV	.3525913	.4164117	8.4380	12.425	63.88	2.490	78.54
%RSD	88.57683	224.0182	5.431470	.5434135	.1836930	.1935203	.4410026
#1	.0003810	-.232099	146.9400	2290.817	34810.29	1287.526	17821.98
#2	.6724519	.6007064	163.8158	2296.289	34810.90	1288.271	17880.11
#3	.5213550	.1890416	155.3063	2272.560	34699.96	1283.635	17724.67
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.056458	-1.49881	.3215232	1.569534	.7817036	-1.00300	-1.09915
SDEV	.292094	2.33396	.1912511	.052336	1.097883	3.27200	.58611
%RSD	5.776657	155.7212	59.48284	3.334495	140.4474	326.2217	53.32442
#1	4.810462	-4.15741	.1294555	1.526631	1.541733	2.729012	-1.21227
#2	4.979622	-.551933	.5119472	1.554126	-.477011	-3.37894	-.464720
#3	5.379290	.2129207	.3231669	1.627844	1.280388	-2.35907	-1.62046
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.722247	-1.26797	1.800991	.0025863	-1.65320	3.351050	-3.18077
SDEV	1.033507	1.94476	.960100	3.272997	.81493	4.572908	3.93617
%RSD	60.00919	153.3758	53.30951	126550.1	49.29391	136.4620	123.7491
#1	.7051678	-1.05244	2.832890	.3350638	-1.98876	7.209312	.4882382
#2	1.690141	-3.31151	.9340726	3.096655	-2.24678	4.543912	-7.33847
#3	2.771433	.5600468	1.636011	-3.42396	-.724071	-1.70008	-2.69207
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.0344218	2.308015	1.895167	2.391974	63.68128	3037.378
SDEV	1.336419	2.473269	.282773	7.671494	.45523	21.364
%RSD	3882.475	107.1600	14.92073	320.7182	.7148597	.7033811
#1	-.123643	-.333992	2.102105	-6.21287	63.18521	3057.467
#2	1.442845	2.689918	2.010428	8.516290	64.07989	3014.933
#3	-1.21594	4.568119	1.572967	4.872502	63.77875	3039.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1031711-MS1 OPERATOR:
RUN TIME: 03/22/11 23:18:16
COMMENT: SDG:1103068 CLIENTID:GW08-0311S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	50.06611	2033.975	2201.213	48.75219	116373.8	48.99526	499.6313
SDEV	.11026	22.224	21.032	.35047	2250.2	.24648	3.1555
%RSD	.2202270	1.092653	.9554900	.7188843	1.933617	.5030764	.6315747
#1	50.10754	2018.738	2189.646	48.59630	116948.8	49.02601	498.3293
#2	49.94114	2023.710	2188.502	48.50671	113891.8	48.73484	497.3351
#3	50.14965	2059.476	2225.490	49.15356	118280.6	49.22493	503.2295
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	201.3132	251.6546	1175.909	2268.948	33878.63	1765.981	17219.31
SDEV	.9179	1.2174	5.791	11.347	242.84	13.355	46.18
%RSD	.4559456	.4837410	.4924344	.5000866	.7168071	.7562360	.2682062
#1	200.5462	251.3913	1177.805	2279.277	33745.54	1758.508	17233.10
#2	201.0633	250.5905	1169.409	2256.803	33731.43	1758.035	17257.03
#3	202.3302	252.9821	1180.515	2270.764	34158.93	1781.399	17167.81
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	503.8851	51.27165	505.7518	475.2987	21.20398	51.80929	103.6871
SDEV	4.0185	1.88992	3.6889	4.2469	.59957	.20492	.7354
%RSD	.7975004	3.686095	.7293890	.8935130	2.827632	.3955252	.7092075
#1	503.0010	49.85349	503.8293	473.1436	20.56120	51.94793	103.2221
#2	500.3823	50.54427	503.4212	472.5616	21.74810	51.57391	103.3043
#3	508.2721	53.41719	510.0048	480.1911	21.30264	51.90602	104.5349
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	38.32822	16.05429	23.76997	104.8762	103.0895	52.73032	51.34547
SDEV	.68425	.49593	1.14641	.7031	1.1211	3.84112	1.61108
%RSD	1.785235	3.089107	4.822915	.6703818	1.087500	7.284461	3.137727
#1	37.82308	16.59192	22.53789	105.5047	102.0785	55.11458	50.36301
#2	39.10693	15.61471	24.80521	104.1169	102.8946	48.29926	53.20478
#3	38.05464	15.95623	23.96681	105.0069	104.2952	54.77713	50.46861
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.155161	2.921450	2.412353	-.197531	63.13600	3050.244
SDEV	2.865279	4.444624	.297475	2.177229	.37408	16.686
%RSD	1846.654	152.1376	12.33131	1102.223	.5925064	.5470426
#1	-.586054	7.901185	2.754009	.0265913	63.33854	3065.867
#2	2.901161	1.506926	2.210791	1.858968	62.70432	3052.200
#3	-2.78059	-.643761	2.272260	-2.47815	63.36515	3032.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: SDI1103068-01 OPERATOR:
RUN TIME: 03/22/11 23:25:16
COMMENT: SDG:1103068 CLIENTID:GW08-0311L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.132563	2.317887	40.28565	-.059790	23323.20	-.149879	.7531816
SDEV	.421878	4.261297	.27336	.003161	1048.39	.088386	.0606088
%RSD	318.2479	183.8440	.6785615	5.286262	4.495063	58.97137	8.047035
#1	-.425648	-2.59434	39.97205	-.060455	22115.29	-.132130	.6871704
#2	.3509620	5.021343	40.47355	-.056350	23996.79	-.245793	.8063198
#3	-.323002	4.526657	40.41136	-.062566	23857.52	-.071715	.7660546
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1727921	-.358887	29.00581	378.4143	6889.898	256.3700	3474.454
SDEV	.4332879	.268308	3.16206	4.6856	43.350	1.5518	23.719
%RSD	250.7567	74.76137	10.90147	1.238222	.6291783	.6052777	.6826739
#1	.2282132	-.453366	27.42339	381.3743	6840.060	254.5785	3476.613
#2	.5757030	-.056119	32.64669	373.0121	6918.863	257.2952	3449.729
#3	-.285540	-.567175	26.94736	380.8566	6910.770	257.2363	3497.020
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.646658	-1.73252	.0985602	.6459120	-.026221	-2.21027	-.495370
SDEV	.173627	5.05023	.0677945	.0659131	.638473	1.34975	.706155
%RSD	10.54420	291.4966	68.78487	10.20465	2434.963	61.06738	142.5510
#1	1.565261	-7.52220	.1627434	.5855445	.5220755	-2.86222	-.382523
#2	1.846029	1.766074	.1052821	.6359540	-.727190	-3.11029	-1.25115
#3	1.528683	.5585710	.0276551	.7162375	.1264517	-.658303	.1475663
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2461753	-2.14033	1.025114	-.105803	-.693830	-2.49207	-2.07355
SDEV	1.622664	3.27853	1.249060	.766294	1.441098	2.67590	1.80602
%RSD	659.1499	153.1785	121.8459	724.2660	207.7020	107.3764	87.09830
#1	-.055587	-2.23646	1.895316	-.260884	-.447214	-.662313	-3.96448
#2	1.998538	-5.36973	1.586111	.7261706	-2.24232	-5.56320	-1.88966
#3	-1.20443	1.185205	-.406085	-.782696	.6080460	-1.25070	-.366501
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.32887	2.327919	-.386306	.8572123	10.84336	3068.489
SDEV	1.71539	2.757002	.532534	7.208078	.49253	14.366
%RSD	129.0862	118.4320	137.8527	840.8745	4.542232	.4681682
#1	-3.27812	3.014594	-.124272	-1.29135	10.64076	3073.600
#2	-.049463	-.707521	-.035561	8.895267	11.40488	3052.266
#3	-.659034	4.676685	-.999087	-5.03228	10.48444	3079.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1031711-PS1 OPERATOR:
RUN TIME: 03/22/11 23:32:17
COMMENT: SDG:1103068 CLIENTID:GW08-0311A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.00859	3.906526	202.8620	10.37656	116704.2	10.50138	109.0260
SDEV	.43316	7.429198	1.8421	.12611	2105.8	.23313	1.5197
%RSD	1.968134	190.1740	.9080492	1.215328	1.804429	2.219972	1.393846
#1	21.94762	8.322568	203.3272	10.43267	114918.1	10.72944	110.1429
#2	22.46901	8.067721	204.4269	10.46489	119026.2	10.51122	109.6395
#3	21.60915	-4.67071	200.8319	10.23214	116168.3	10.26349	107.2955
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.86582	54.58094	156.1845	2255.174	34222.87	1298.706	17667.53
SDEV	.63593	.41081	10.0954	39.340	368.28	12.681	210.32
%RSD	2.908342	.7526535	6.463772	1.744427	1.076118	.9764588	1.190442
#1	22.47393	54.82911	166.0250	2294.200	34380.98	1302.580	17878.42
#2	21.91822	54.80695	156.6764	2255.795	34485.69	1308.998	17666.39
#3	21.20531	54.10675	145.8521	2215.527	33801.94	1284.539	17457.78
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	90.09545	55.35369	109.0402	117.9830	21.83712	71.76145	131.0104
SDEV	1.63273	1.87104	1.3302	1.0313	.14621	2.23539	1.5819
%RSD	1.812220	3.380148	1.219936	.8741069	.6695601	3.115035	1.207482
#1	90.64829	56.69797	109.9562	118.1434	21.92339	70.37260	131.5459
#2	91.37999	56.14629	109.6499	118.9248	21.66830	74.34010	132.2551
#3	88.25808	53.21681	107.5144	116.8810	21.91967	70.57165	129.2303
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.72509	19.36394	23.06685	132.8564	130.0848	71.71189	71.78219
SDEV	2.11465	1.58442	.81738	3.5684	.6210	1.70080	4.19813
%RSD	9.733663	8.182315	3.543542	2.685910	.4774023	2.371716	5.848435
#1	23.75852	17.80656	23.97368	134.4292	130.1024	72.90342	69.10507
#2	21.87912	19.31118	22.84004	135.3682	130.6969	69.76412	76.62062
#3	19.53765	20.97408	22.38682	128.7718	129.4552	72.46814	69.62087
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.187389	2.556550	2.457494	3.648223	61.85160	3042.311
SDEV	1.665031	2.585003	.470900	7.875308	.94979	38.081
%RSD	76.11955	101.1129	19.16178	215.8670	1.535592	1.251729
#1	4.098519	5.473757	2.571293	9.593072	62.54874	3026.200
#2	1.050120	.5505242	2.861066	6.635207	62.23624	3014.933
#3	1.413530	1.645369	1.940123	-5.28361	60.76982	3085.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-02 OPERATOR:
RUN TIME: 03/22/11 23:39:17
COMMENT: SDG:1103068 CLIENTID:GW08DP-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2370925	2.829357	203.9636	-.090056	118941.5	-.036736	2.238650
SDEV	.5062447	4.991239	1.3903	.038582	2071.0	.070441	.437515
%RSD	213.5220	176.4090	.6816607	42.84263	1.741190	191.7497	19.54372
#1	.8207837	8.384702	205.5020	-.058594	121316.6	-.070837	2.737019
#2	-.027146	1.380622	203.5919	-.078470	117995.5	.0442662	2.061167
#3	-.082360	-1.27725	202.7969	-.133104	117512.4	-.083637	1.917764
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.062231	.1190475	171.6436	2312.635	34417.29	1269.432	17759.32
SDEV	.330630	.3851457	2.6311	24.897	238.55	9.117	180.15
%RSD	531.2913	323.5228	1.532909	1.076582	.6931030	.7182310	1.014370
#1	.3014089	.4572634	174.6139	2341.223	34689.26	1279.637	17955.94
#2	-.143351	.2000289	170.7117	2300.979	34319.08	1266.575	17602.21
#3	-.344752	-.300150	169.6052	2295.704	34243.52	1262.086	17719.81
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.040470	-1.56448	.3076946	1.322150	.4423903	-1.49236	-1.49051
SDEV	.482926	2.03262	.4135008	.094645	.9766893	3.23508	.60861
%RSD	9.580969	129.9233	134.3867	7.158382	220.7755	216.7758	40.83266
#1	5.593684	-3.66787	.7837800	1.401280	-.140671	.2861625	-1.68361
#2	4.824552	.3890727	.1011155	1.217305	1.569954	.4632623	-.808766
#3	4.703174	-1.41463	.0381885	1.347863	-.102112	-5.22651	-1.97914
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.864015	-.124258	.7212505	-1.55716	-1.46127	.6553026	-2.56862
SDEV	1.379087	1.522013	1.573838	1.11413	.70434	2.851847	4.22688
%RSD	159.6138	1224.882	218.2096	71.54911	48.20028	435.1954	164.5583
#1	-2.45510	-1.71938	.6433829	-.827935	-2.11493	3.933842	-1.53906
#2	-.011705	.0343918	2.332577	-1.00391	-.715351	-.716730	1.048366
#3	-.125242	1.312216	-.812208	-2.83962	-1.55353	-1.25120	-7.21517
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.23747	2.204400	2.191624	-2.01623	64.08516	3017.711
SDEV	1.98663	.526314	.240471	4.99948	.66713	49.838
%RSD	160.5394	23.87563	10.97228	247.9618	1.041004	1.651533
#1	-2.13417	2.765772	2.363730	3.602866	64.70976	2960.600
#2	-2.61768	1.722088	1.916862	-3.67942	64.16333	3040.133
#3	1.039440	2.125339	2.294280	-5.97214	63.38238	3052.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-03 OPERATOR:
RUN TIME: 03/22/11 23:46:17
COMMENT: SDG:1103068 CLIENTID:FB01-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.044031	8.205755	-.567753	-.054491	4.351274	-.256096	-.030364
SDEV	.401435	4.108732	.095065	.005849	.554849	.065062	.356837
%RSD	911.7180	50.07134	16.74415	10.73320	12.75142	25.40526	1175.178
#1	.2683964	12.59492	-.515677	-.053790	3.935257	-.236509	.0916360
#2	-.496794	4.451339	-.677478	-.049025	4.981248	-.328702	-.432201
#3	.0963062	7.571002	-.510105	-.060659	4.137318	-.203079	.2494717
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.032755	-.248150	-7.46386	-.865714	-.538531	-.172115	255.3328
SDEV	.370046	.268028	5.74213	10.94554	5.283363	.153510	284.7702
%RSD	1129.727	108.0105	76.93246	1264.338	981.0691	89.19012	111.5290
#1	-.403932	-.066311	-9.53778	6.954341	4.847792	.0022286	455.3844
#2	-.030484	-.555957	-11.8809	-13.3746	-5.71253	-.287007	-70.6988
#3	.3361497	-.122183	-.972890	3.823097	-.750853	-.231566	381.3126
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.000751	-.604295	-.141545	.6157548	.4130787	-5.23793	-1.40079
SDEV	.348046	.469871	.335946	.0366409	.2424135	3.77469	.67337
%RSD	46365.63	77.75520	237.3427	5.950560	58.68459	72.06460	48.07064
#1	.1310422	-1.14685	.0844578	.6490335	.4246215	-2.77854	-1.57137
#2	-.395447	-.333533	-.527587	.6217418	.6495147	-3.35124	-1.97247
#3	.2621526	-.332497	.0184959	.5764892	.1651000	-9.58400	-.658538
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.15515	-.594479	.9116674	-.205377	-2.00155	-5.69998	-5.01118
SDEV	1.30393	1.494569	.4579299	5.014831	3.31723	2.82282	4.27400
%RSD	112.8794	251.4082	50.22993	2441.770	165.7330	49.52325	85.28916
#1	-1.52465	-1.33984	1.301012	4.558445	-4.63570	-4.31518	-2.01538
#2	-2.23446	1.126187	.4071438	.2636830	-3.09278	-3.83699	-3.11263
#3	.2936523	-1.56979	1.026846	-5.43826	1.723831	-8.94778	-9.90554
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.63947	.2707386	-.918621	-1.11463	1.066565	3087.733
SDEV	1.76554	3.197891	.296238	4.65402	.544998	48.171
%RSD	107.6901	1181.173	32.24812	417.5404	51.09845	1.560089
#1	-.203928	1.503900	-.934420	-1.37830	1.362815	3032.133
#2	-1.10362	-3.36014	-1.20664	-5.63121	1.399273	3116.933
#3	-3.61086	2.668456	-.614799	3.665625	.4376075	3114.133
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/22/11 23:53:17
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.60365	.0839185	Q-.562057	4.873303	1.952451	4.957530	52.39050
SDEV	.16236	3.779581	.080534	.017560	.183459	.104809	.21616
%RSD	1.531142	4503.870	14.32851	.3603362	9.396320	2.114141	.4125950
#1	10.75482	2.712713	Q-.470065	4.892511	1.812237	5.076759	52.62804
#2	10.62409	1.786526	Q-.619839	4.858073	2.160079	4.915896	52.33809
#3	10.43204	-4.24748	Q-.596268	4.869325	1.885037	4.879935	52.20536
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.19135	25.42452	-1.18571	3.245182	-1.20545	14.87971	35.40243
SDEV	.34461	.24792	4.41695	4.410517	.72565	.01640	82.05425
%RSD	3.381365	.9751203	372.5149	135.9097	60.19716	.1102009	231.7758
#1	10.19133	25.46881	2.833389	5.894713	-.394765	14.89033	112.3983
#2	10.53598	25.64731	-.475968	-1.84623	-1.42733	14.88797	-50.9142
#3	9.846762	25.15744	-5.91455	5.687064	-1.79425	14.86082	44.72312
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	41.92189	25.42902	52.31827	54.91622	10.41678	33.20845	62.76253
SDEV	.19526	1.23806	.06460	.32825	.46330	1.77912	2.07134
%RSD	.4657722	4.868706	.1234739	.5977231	4.447596	5.357443	3.300282
#1	41.90394	25.97882	52.29820	54.60037	10.12890	34.92704	65.14957
#2	42.12550	24.01127	52.26609	55.25560	10.95121	31.37442	61.43869
#3	41.73622	26.29696	52.39052	54.89269	10.17022	33.32390	61.69934
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	9.547007	8.500688	11.36839	62.50714	62.88605	32.89777	33.35957
SDEV	.239789	.924474	.50787	3.33350	1.44452	2.30486	2.27227
%RSD	2.511664	10.87529	4.467375	5.332991	2.297042	7.006143	6.811459
#1	9.285024	7.450989	11.46084	66.35557	64.54348	32.85263	35.95869
#2	9.755602	9.193623	11.82369	60.51652	61.89509	30.61580	31.74915
#3	9.600394	8.857451	10.82065	60.64933	62.21957	35.22487	32.37085
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	50.45522	52.39377	51.17460	55.36945	51.26696	3046.378
SDEV	1.25930	.30955	.24352	3.35223	.26489	9.779
%RSD	2.495874	.5908120	.4758707	6.054294	.5166849	.3209884
#1	50.45075	52.56605	50.93009	59.23591	51.55132	3040.533
#2	49.19817	52.57885	51.41713	53.27726	51.22237	3040.933
#3	51.71675	52.03641	51.17660	53.59516	51.02720	3057.666
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

ANALYSIS REPORT QC STANDARD 03/23/11 00:07:14 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/23/11 00:00:18
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5251483	262864.2	2.452658	.6099669	249804.3	2.824603	5.586538
SDEV	.9318487	1107.4	.053590	.0264662	1979.2	.083551	.307390
%RSD	177.4449	.4212875	2.184992	4.338964	.7922896	2.957972	5.502334
#1	-.362486	261696.4	2.427031	.5794104	251509.5	2.914445	5.421460
#2	1.495673	263899.2	2.514250	.6256788	250269.5	2.810129	5.941200
#3	.4422579	262997.1	2.416693	.6248114	247634.0	2.749234	5.396955
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	45.97602	23.30724	99784.00	9.674149	264613.0	24.74975	808.4589
SDEV	.96849	.43751	466.33	8.514711	1336.6	.19863	117.5172
%RSD	2.106512	1.877140	.4673377	88.01510	.5050965	.8025419	14.53595
#1	44.94089	22.80356	99325.58	19.37194	263242.2	24.56073	885.5163
#2	46.86013	23.59290	100257.9	6.226999	265912.5	24.95676	866.6613
#3	46.12704	23.52526	99768.57	3.423503	264684.2	24.73176	673.1990
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.13590	-1.44152	.7737877	35.07117	14.83864	-2.12942	.8518277
SDEV	.32327	1.64223	.3126583	.30581	.56375	2.15575	.2773109
%RSD	1.460402	113.9234	40.40621	.8719593	3.799180	101.2367	32.55481
#1	21.76814	-2.70452	.5343147	34.72246	14.61026	-.248716	.6664404
#2	22.26435	-2.03499	1.127500	35.29368	15.48074	-4.48203	.7184129
#3	22.37520	.4149466	.6595483	35.19736	14.42491	-1.65750	1.170630
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.87334	11.56334	16.46869	.6102483	.9683220	-9.96886	1.780317
SDEV	1.88051	4.50762	2.78963	8.181603	4.034874	4.79974	2.784285
%RSD	100.3825	38.98202	16.93900	1340.701	416.6872	48.14736	156.3927
#1	-2.31792	16.66849	13.57754	-7.91018	4.944198	-4.64324	1.941128
#2	.1896210	8.132263	19.14429	8.404626	-3.12307	-11.3028	-1.08089
#3	-3.49171	9.889267	16.68423	1.336303	1.083837	-13.9605	4.480711
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-10.0100	10.78290	-1.31609	-13.5261	-4.97932	2964.289
SDEV	2.2328	.96367	.10378	8.6300	.89461	21.243
%RSD	22.30600	8.936996	7.885588	63.80282	17.96661	.7166144
#1	-9.59413	11.05401	-1.21599	-22.2009	-5.99669	2956.467
#2	-8.01432	11.58197	-1.42320	-4.94161	-4.62571	2948.066
#3	-12.4215	9.712716	-1.30908	-13.4357	-4.31556	2988.333
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

ANALYSIS REPORT QC STANDARD 03/23/11 00:14:15 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/23/11 00:07:18
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	210.5753	260015.2	526.4202	500.2765	249223.0	1007.568	512.6231
SDEV	.7808	841.6	1.7829	2.6613	2602.0	6.768	3.0368
%RSD	.3708051	.3236856	.3386862	.5319619	1.044027	.6717425	.5923963
#1	210.5052	259539.5	525.5744	498.8755	251534.4	1005.233	511.7534
#2	209.8319	260986.9	528.4686	503.3456	249729.7	1015.195	515.9998
#3	211.3888	259519.0	525.2177	498.6085	246405.0	1002.277	510.1160
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	555.8025	544.8063	99195.23	3.064981	262853.1	535.3008	737.3894
SDEV	3.2496	3.7686	581.02	4.359476	1471.7	3.0676	93.3911
%RSD	.5846621	.6917258	.5857315	142.2350	.5599003	.5730537	12.66510
#1	554.1231	546.0438	99018.49	.6593311	262404.7	534.2128	728.4572
#2	559.5481	540.5747	99844.09	8.097254	264496.9	538.7640	834.9257
#3	553.7363	547.8006	98723.09	.4383585	261657.8	532.9255	648.7853
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1049.395	104.4516	519.7228	1060.908	67.05594	47.73205	637.5577
SDEV	6.095	1.7406	2.6525	3.912	1.03733	4.95310	6.5004
%RSD	.5808184	1.666455	.5103619	.3687384	1.546968	10.37688	1.019584
#1	1047.434	104.2916	518.6637	1060.201	66.23150	51.74146	634.4468
#2	1056.229	106.2666	522.7412	1065.125	68.22068	49.25957	645.0290
#3	1044.522	102.7964	517.7636	1057.398	66.71564	42.19512	633.1973
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	101.5024	61.88583	69.63236	638.2271	637.2206	38.73934	52.21759
SDEV	1.2969	4.00352	3.02282	15.9801	6.0268	12.87563	2.78593
%RSD	1.277729	6.469204	4.341114	2.503825	.9457877	33.23656	5.335237
#1	102.4322	66.29562	66.19544	621.8415	640.7371	52.34354	51.43682
#2	100.0209	60.88237	71.87816	653.7682	640.6630	37.13109	55.31061
#3	102.0542	58.47949	70.82350	639.0716	630.2616	26.74339	49.90535
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	967.9873	1006.948	979.8678	979.6400	998.9054	2995.933
SDEV	3.7700	6.118	3.6513	11.2952	4.4303	27.636
%RSD	.3894647	.6075856	.3726270	1.152994	.4435202	.9224634
#1	967.7048	1006.235	978.2776	971.5325	996.9229	3010.400
#2	971.8906	1013.391	984.0445	992.5415	1003.981	2964.066
#3	964.3665	1001.217	977.2813	974.8461	995.8125	3013.333
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/23/11 00:14:18
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.29879	50146.18	988.6351	981.1597	49327.59	971.7206	972.4139
SDEV	.34406	328.73	5.5012	4.8202	1014.09	4.9370	4.9722
%RSD	.3610371	.6555470	.5564433	.4912778	2.055826	.5080665	.5113208
#1	95.51746	50484.91	994.2013	985.6896	50282.56	976.1617	977.2341
#2	95.47671	50125.19	988.5028	981.6957	49436.96	972.5954	972.7050
#3	94.90220	49828.45	983.2013	976.0939	48263.24	966.4047	967.3025
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	989.8790	979.5224	24705.99	49102.86	49611.79	972.5091	51000.17
SDEV	4.7245	3.0366	144.39	248.20	289.80	5.0317	258.82
%RSD	.4772764	.3100059	.5844437	.5054715	.5841351	.5173985	.5074845
#1	994.2167	983.0284	24848.74	49347.03	49885.33	977.2033	51219.34
#2	990.5753	977.7314	24709.24	49110.72	49641.94	973.1271	51066.54
#3	984.8450	977.8073	24560.01	48850.82	49308.09	967.1969	50714.63
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	985.3093	988.8434	994.1746	1059.200	976.9905	989.5259	1028.869
SDEV	5.1842	6.2734	5.5137	5.819	2.9018	3.6649	2.812
%RSD	.5261515	.6344183	.5546048	.5493628	.2970133	.3703707	.2733379
#1	990.2581	981.6466	999.0659	1064.542	976.9693	992.5275	1032.063
#2	985.7517	993.1563	995.2584	1060.058	979.9029	990.6086	1027.781
#3	979.9180	991.7272	988.1994	1053.000	974.0994	985.4416	1026.764
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	990.2537	973.7655	978.5966	1023.961	1031.316	982.2364	993.1611
SDEV	4.3116	7.1406	1.5855	.742	3.862	3.2167	4.3579
%RSD	.4354034	.7332967	.1620224	.0724433	.3744986	.3274874	.4387868
#1	994.6543	976.5554	977.1719	1024.813	1035.679	985.9293	995.8176
#2	986.0370	979.0899	980.3048	1023.459	1029.936	980.7349	995.5340
#3	990.0698	965.6511	978.3132	1023.611	1028.334	980.0450	988.1318
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	991.3283	988.7472	1007.630	1001.610	1032.443	3023.689
SDEV	7.7466	10.8310	3.985	5.757	4.683	8.816
%RSD	.7814395	1.095431	.3954886	.5747986	.4535413	.2915791
#1	999.0318	997.7937	1010.501	1006.271	1037.227	3018.400
#2	991.4138	991.7028	1009.309	1003.386	1032.235	3018.800
#3	983.5393	976.7452	1003.080	995.1745	1027.869	3033.867
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/23/11 00:21:19
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7085455	13.90334	-.316911	.1257914	4.445594	.0527932	.6323532
SDEV	.9143907	7.22180	.167981	.0785741	.551986	.1117837	.2339549
%RSD	129.0518	51.94292	53.00577	62.46376	12.41647	211.7388	36.99751
#1	1.542399	21.63359	-.141482	.2148672	3.939138	.1686189	.8626524
#2	.8525338	12.74689	-.332959	.0961872	4.363688	.0442151	.3949064
#3	-.269297	7.329550	-.476292	.0663199	5.033957	-.054454	.6395007
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3167504	-.248797	2.246866	14.49913	9.204658	-.145149	154.7850
SDEV	.3943595	.491091	3.956505	17.53268	6.432408	.135430	342.9497
%RSD	124.5017	197.3867	176.0899	120.9223	69.88210	93.30438	221.5652
#1	.7706017	.2662597	6.527607	30.31508	16.51910	.0111794	402.7428
#2	.1219749	-.300878	1.488658	17.53587	6.665523	-.219784	298.2049
#3	.0576744	-.711772	-1.27567	-4.35356	4.429353	-.226842	-236.593
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5151929	1.707283	.1378317	.1253398	.6654117	-3.28559	-.848409
SDEV	.7068321	1.161413	.5429959	.0691451	.9129757	3.04550	.237415
%RSD	137.1975	68.02698	393.9558	55.16607	137.2046	92.69280	27.98359
#1	1.327977	2.529378	.7265998	.1698825	1.598397	Q-6.15366	-1.00818
#2	.1732046	2.213842	.0301525	.0456838	.6239817	-3.61387	-.961446
#3	.0443970	.3786297	-.343257	.1604532	-.226144	-.089243	-.575597
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.05982	-1.93545	1.959832	1.155700	-1.85302	-1.24086	-4.31048
SDEV	1.02400	1.04807	1.771595	1.720412	1.21172	7.17807	.98245
%RSD	96.62021	54.15141	90.39521	148.8632	65.39180	578.4750	22.79203
#1	-.918513	-2.27004	3.525626	2.042292	-2.53523	-7.98651	-5.24269
#2	-2.14715	-2.77537	2.317008	2.251976	-2.56985	-2.03899	-4.40423
#3	-.113814	-.760931	.0368631	-.827169	-.453986	6.302917	-3.28452
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.624238	2.167866	.1144235	5.409955	.2794401	3000.333
SDEV	2.876272	3.285766	1.222376	6.818677	.8971944	46.589
%RSD	460.7653	151.5668	1068.291	126.0395	321.0686	1.552795
#1	.4246101	5.201015	1.354735	12.61501	1.315018	2976.733
#2	-3.87774	2.625187	.0777252	4.556919	-.213023	2970.266
#3	1.580418	-1.32260	-1.08919	-.942068	-.263675	3054.000
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-04 OPERATOR:
RUN TIME: 03/23/11 00:28:20
COMMENT: SDG:1103068 CLIENTID:GW07-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.041198	10.61091	191.8220	-.014654	104795.9	-.198850	1.017870
SDEV	.450817	9.87342	2.7635	.037315	3008.5	.104663	.131585
%RSD	1094.266	93.04969	1.440682	254.6364	2.870800	52.63402	12.92746
#1	.3990105	21.97666	194.9601	.0274023	108145.3	-.190883	1.158691
#2	-.501922	5.702150	190.7541	-.027567	103919.6	-.098398	.8980472
#3	-.020682	4.153924	189.7517	-.043798	102322.9	-.307268	.9968715
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0609080	.9016699	337.5751	2560.956	20917.72	67.37055	6720.133
SDEV	.4916266	.4616650	13.4418	22.850	294.70	.94873	17.342
%RSD	807.1621	51.20111	3.981874	.8922285	1.408877	1.408226	.2580598
#1	.4683927	1.289712	352.5379	2586.904	21256.67	68.46358	6712.867
#2	-.485126	.3911016	326.5204	2552.122	20774.42	66.88769	6707.606
#3	.1994579	1.024197	333.6670	2543.843	20722.06	66.76039	6739.926
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.887775	-3.53584	.0139721	2.042897	.9316510	-2.30356	.2205231
SDEV	.203398	3.11621	.0612029	.074818	.0995666	.51949	.9142361
%RSD	10.77450	88.13206	438.0354	3.662368	10.68711	22.55139	414.5762
#1	1.857066	-.115556	.0844668	2.125579	.9785843	-2.83144	.4111165
#2	1.701477	-6.21397	-.025596	2.023248	.9990769	-2.28636	1.024439
#3	2.104782	-4.27800	-.016954	1.979864	.8172919	-1.79289	-.773986
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.212084	-1.72334	2.253000	1.754579	-.549341	-.507090	-3.20444
SDEV	1.307052	.63969	.468189	.866637	1.458599	2.902472	1.13552
%RSD	59.08692	37.11925	20.78072	49.39288	265.5179	572.3779	35.43575
#1	1.772979	-2.07561	2.498842	2.728140	-.749702	-1.11958	-3.69012
#2	1.181126	-2.10946	2.547059	1.067312	.9990804	-3.05443	-1.90686
#3	3.682146	-.984945	1.713098	1.468286	-1.89740	2.652748	-4.01634
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.238927	1.919074	1.798676	-1.23200	140.1573	3056.800
SDEV	3.181614	4.226142	.385222	7.53011	1.7964	37.314
%RSD	1331.625	220.2178	21.41697	611.2083	1.281714	1.220696
#1	1.914697	-2.59229	2.218405	6.356905	142.1975	3013.800
#2	1.261875	2.563563	1.461272	-8.70191	139.4614	3080.666
#3	-3.89335	5.785953	1.716349	-1.35101	138.8129	3075.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-05 OPERATOR:
RUN TIME: 03/23/11 00:35:21
COMMENT: SDG:1103068 CLIENTID:GW03-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8357206	9.041475	186.6151	-.045707	96460.99	.2124831	1.847868
SDEV	.4675927	3.722966	4.4172	.016786	1196.48	.0679827	.058733
%RSD	55.95084	41.17653	2.367001	36.72508	1.240374	31.99443	3.178444
#1	1.267124	8.112113	185.5218	-.058819	95490.74	.2421924	1.882942
#2	.3388407	5.871230	182.8473	-.026789	96094.34	.1347025	1.780062
#3	.9011968	13.14108	191.4763	-.051513	97797.89	.2605543	1.880600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4136194	.6013155	12014.84	14376.01	69475.65	181.1770	54357.48
SDEV	.1679065	.1936786	275.11	299.80	1635.05	4.2500	1165.05
%RSD	40.59444	32.20915	2.289742	2.085395	2.353420	2.345782	2.143310
#1	.6028950	.8234231	11942.93	14284.84	68992.16	179.9658	53762.85
#2	.2825994	.5129010	11782.83	14132.38	68136.86	177.6641	53609.73
#3	.3553638	.4676223	12318.77	14710.81	71297.92	185.9012	55699.85
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.880176	-2.50207	.4666185	2.151212	1.079062	-3.43839	-.972575
SDEV	.298410	1.34509	.2454366	.018720	.642251	1.54966	1.826369
%RSD	10.36083	53.75896	52.59899	.8702059	59.51938	45.06952	187.7870
#1	2.677073	-1.54684	.6408409	2.172811	1.295026	-2.03615	-3.07839
#2	2.740667	-4.04030	.5730894	2.141154	.3566648	-3.17683	-.018638
#3	3.222789	-1.91907	.1859251	2.139670	1.585495	-5.10219	.1792986
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	99.71520	-1.29441	2.260025	1.017751	-1.97024	-3.20811	-3.55735
SDEV	5.23481	1.21960	1.058106	3.821425	1.34822	2.61984	1.01768
%RSD	5.249756	94.22068	46.81832	375.4776	68.42944	81.66302	28.60789
#1	100.4659	.0995000	1.887914	-2.80453	-3.21909	-.766458	-2.67402
#2	94.14559	-1.81761	1.438243	1.019454	-.540837	-2.88222	-3.32784
#3	104.5342	-2.16512	3.453919	4.838324	-2.15079	-5.97564	-4.67019
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.787566	1.799235	.0870997	3.116907	457.9703	3050.044
SDEV	1.391384	2.568327	.2744636	3.033343	10.3183	53.681
%RSD	49.91394	142.7455	315.1144	97.31899	2.253055	1.760007
#1	1.809706	-.689585	.0970698	4.938680	456.0409	3060.800
#2	2.172507	1.646994	-.192213	-.384737	448.7527	3097.533
#3	4.380485	4.440296	.3564423	4.796779	469.1170	2991.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-06 OPERATOR:
RUN TIME: 03/23/11 00:42:21
COMMENT: SDG:1103068 CLIENTID:GW01-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0897702	7.374401	92.49991	-.083368	115410.4	-.147444	.2528019
SDEV	.5806309	7.476818	2.10406	.036214	3226.3	.181873	.1909211
%RSD	646.7970	101.3888	2.274659	43.43935	2.795466	123.3506	75.52202
#1	.2617721	2.970085	91.64281	-.123486	113942.3	.0087252	.0811234
#2	.5649677	16.00729	94.89724	-.053093	119109.7	-.103930	.4584149
#3	-.557429	3.145827	90.95968	-.073524	113179.4	-.347126	.2188674
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1675187	.4932560	-14.6198	1710.650	32133.56	.0971428	16380.79
SDEV	.1916334	.1804073	5.7559	36.518	736.34	.0615497	353.37
%RSD	114.3953	36.57478	39.37074	2.134753	2.291496	63.36006	2.157246
#1	.0582707	.5552849	-13.5686	1704.873	31799.03	.0562672	16294.03
#2	.3887921	.6344656	-9.46194	1749.713	32977.78	.1679319	16769.46
#3	.0554933	.2900176	-20.8289	1677.365	31623.88	.0672292	16078.87
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7639656	-1.03129	.1157452	6.129024	.0315933	-2.32174	-.979884
SDEV	.4492577	2.73306	.2703841	.070656	.5929518	1.19771	1.201446
%RSD	58.80602	265.0150	233.6030	1.152805	1876.826	51.58669	122.6111
#1	.9005756	2.048674	.1563610	6.146388	-.653072	-1.32879	-1.49414
#2	1.129061	-1.97543	.3635237	6.189378	.3780608	-3.65191	-1.83861
#3	.2622603	-3.16710	-.172649	6.051304	.3697909	-1.98452	.3930967
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.46318	-2.03568	1.059167	1.174719	-2.05958	-7.05909	.0393751
SDEV	1.09467	.83718	1.275301	.888565	1.64065	1.89718	.8502289
%RSD	74.81394	41.12521	120.4060	75.64067	79.65925	26.87571	2159.304
#1	-2.43967	-1.17827	-.395360	.1547460	-2.32133	-5.42548	.7124943
#2	-.279854	-2.85104	1.985570	1.588322	-3.55362	-9.13993	-.916113
#3	-1.67002	-2.07773	1.587290	1.781088	-.303794	-6.61186	.3217438
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.49214	.9206532	.4935173	.4923159	42.95703	3038.578
SDEV	1.17226	3.470647	.0704435	5.409698	1.69462	64.355
%RSD	78.56233	376.9766	14.27377	1098.827	3.944922	2.117939
#1	-.822631	1.321178	.4875356	-1.27889	42.45075	3051.333
#2	-2.84572	4.173661	.5667610	6.565592	44.84709	2968.800
#3	-.808067	-2.73288	.4262553	-3.80975	41.57325	3095.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-07 OPERATOR:
RUN TIME: 03/23/11 00:49:21
COMMENT: SDG:1103068 CLIENTID:GW02-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0397672	.1785884	87.70772	-.079141	70036.50	-.097533	.3985314
SDEV	.3198309	6.292589	2.80797	.012735	3248.60	.048208	.2092844
%RSD	804.2576	3523.514	3.201513	16.09208	4.638443	49.42720	52.51390
#1	.1110667	-.336547	87.16730	-.068195	69562.95	-.145305	.3135687
#2	.3179312	6.712911	90.74663	-.093119	73495.89	-.048900	.6369361
#3	-.309696	-5.84060	85.20924	-.076110	67050.66	-.098394	.2450894
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.038229	-.040537	2973.082	1209.482	29482.16	505.4046	15187.94
SDEV	.329878	.115266	100.849	42.137	986.10	16.2733	510.07
%RSD	862.8966	284.3505	3.392060	3.483855	3.344727	3.219855	3.358392
#1	.3415183	-.078720	2961.449	1201.122	29306.81	502.0776	14966.74
#2	-.202351	.0889759	3079.243	1255.172	30544.18	523.0843	15771.27
#3	-.253855	-.131866	2878.555	1172.152	28595.51	491.0520	14825.81
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.398119	-.470144	.2334769	2.876792	1.424000	-3.18621	-.861344
SDEV	.095252	4.100909	.3024904	.193296	.489908	1.60213	.946640
%RSD	6.812891	872.2675	129.5590	6.719161	34.40364	50.28322	109.9027
#1	1.289150	3.120890	.3092617	2.805736	1.438038	-1.62634	.2102493
#2	1.465537	.4075053	.4908689	3.095560	1.906738	-4.82750	-1.58394
#3	1.439670	-4.93883	-.099700	2.729081	.9272244	-3.10480	-1.21034
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.94090	-.744983	2.502742	-.228622	-1.18119	-5.74954	-1.91044
SDEV	1.80539	1.122948	.520935	1.182714	1.62371	2.27416	2.63779
%RSD	16.50129	150.7348	20.81458	517.3235	137.4638	39.55384	138.0726
#1	9.322944	-1.63838	2.969987	-.713006	.6672308	-4.29688	-.297032
#2	12.88834	.5155917	2.597196	-1.09225	-1.83349	-4.58136	-4.95446
#3	10.61142	-1.11216	1.941042	1.119392	-2.37733	-8.37038	-.479813
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.457683	.9526985	40.53396	-.820673	47.58903	3074.378
SDEV	.959354	2.571557	1.86051	2.851651	1.45313	80.100
%RSD	209.6109	269.9235	4.590013	347.4769	3.053501	2.605392
#1	.6471196	1.032237	39.24585	.2403903	47.57112	3080.333
#2	-1.08021	3.483564	42.66700	1.348335	49.05104	2991.467
#3	-.939957	-1.65771	39.68902	-4.05075	46.14494	3151.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-08 OPERATOR:
RUN TIME: 03/23/11 00:56:22
COMMENT: SDG:1103068 CLIENTID:GW04-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4165982	22.95403	539.8572	-.071202	131092.2	.0774868	1.242164
SDEV	.5204740	.52562	5.0509	.024258	787.8	.1168422	.207627
%RSD	124.9343	2.289874	.9356001	34.06885	.6009638	150.7899	16.71492
#1	.1802958	22.89015	537.2710	-.066283	130670.3	.0148048	1.266569
#2	.0561952	23.50868	545.6774	-.097542	130605.2	.0053611	1.023413
#3	1.013303	22.46328	536.6231	-.049781	132001.2	.2122944	1.436510
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7731475	1.131239	5275.583	11341.19	37928.96	91.18464	35423.59
SDEV	.3798216	.215283	39.737	97.78	301.55	.68432	338.97
%RSD	49.12667	19.03074	.7532290	.8621483	.7950262	.7504733	.9568999
#1	.5212657	1.023978	5250.562	11289.00	37763.51	90.82343	35208.40
#2	.5881524	.9906580	5321.403	11453.98	38277.01	91.97388	35814.33
#3	1.210024	1.379081	5254.784	11280.57	37746.35	90.75661	35248.05
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.693996	-2.36659	.5292077	4.855968	.8714572	-5.21619	-.731151
SDEV	.327656	1.47417	.2352045	.071103	.8581896	.54992	2.385218
%RSD	8.869965	62.29076	44.44465	1.464250	98.47754	10.54264	326.2278
#1	4.072338	-3.10964	.4486510	4.773885	-.113632	-5.28875	1.475980
#2	3.506070	-3.32136	.3448661	4.895396	1.457217	-4.63359	-.407940
#3	3.503580	-.668763	.7941059	4.898621	1.270786	-5.72623	-3.26149
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	65.81213	-2.21843	2.409563	1.535969	-1.86703	-8.32422	-3.66852
SDEV	.39255	.69725	1.319618	2.138553	2.69280	5.64042	2.19565
%RSD	.5964715	31.42980	54.76584	139.2315	144.2288	67.75912	59.85104
#1	65.95418	-2.33723	.9919938	3.983039	.2203228	-5.19069	-5.34172
#2	65.36833	-2.84865	3.602355	.5993061	-.914869	-4.94628	-4.48153
#3	66.11388	-1.46942	2.634342	.0255619	-4.90655	-14.8357	-1.18232
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.060945	2.436736	8.008560	2.954307	620.2696	3031.044
SDEV	2.968051	1.629344	.470728	5.420942	4.4820	26.072
%RSD	279.7554	66.86585	5.877816	183.4928	.7225932	.8601663
#1	-1.37137	4.257146	7.530421	.5244484	617.7557	3040.333
#2	4.368084	1.938043	8.023749	-.826607	625.4443	3001.600
#3	.1861243	1.115018	8.471510	9.165079	617.6088	3051.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-09 OPERATOR:
RUN TIME: 03/23/11 01:03:22
COMMENT: SDG:1103068 CLIENTID:GW05-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.103700	4.731011	471.9368	-.056731	128967.1	.3768734	1.751372
SDEV	.402201	1.615460	1.2292	.001803	313.5	.0703240	.284803
%RSD	387.8507	34.14620	.2604669	3.178545	.2430671	18.65985	16.26171
#1	-.555706	3.056974	470.5482	-.055274	128967.0	.3602036	1.423027
#2	.0299238	6.280710	472.3763	-.058748	128653.7	.3163821	1.931513
#3	.2146821	4.855349	472.8859	-.056172	129280.6	.4540346	1.899576
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3242642	.1342543	18868.08	8810.640	33516.30	103.3939	17738.92
SDEV	.1756376	.4159993	70.37	30.663	127.14	.4403	64.96
%RSD	54.16497	309.8592	.3729779	.3480225	.3793354	.4258338	.3661941
#1	.1709071	-.310899	18788.41	8775.726	33374.31	102.9398	17679.17
#2	.5158765	.5131462	18894.07	8833.193	33554.99	103.4229	17808.07
#3	.2860090	.2005155	18921.77	8823.000	33619.60	103.8189	17729.51
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.73734	-2.11640	.4909042	4.095904	2.020869	-3.31827	1.084958
SDEV	.20676	2.21831	.1902527	.062696	.349338	.93307	.579918
%RSD	1.925604	104.8153	38.75556	1.530688	17.28652	28.11913	53.45070
#1	10.51469	-.908100	.3226550	4.164856	2.122247	-4.39406	1.127087
#2	10.77406	-4.67654	.6973613	4.042325	1.632055	-2.72914	1.642663
#3	10.92328	-.764555	.4526962	4.080532	2.308306	-2.83161	.4851250
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	104.8426	-1.08263	3.565995	3.260845	-.005318	-7.87324	-1.04817
SDEV	.7969	1.20551	.587702	1.804646	.171251	2.43992	1.87702
%RSD	.7600940	111.3502	16.48074	55.34290	3219.985	30.99006	179.0768
#1	104.6003	.2741264	3.040966	2.995864	.1901431	-7.95982	-2.61781
#2	104.1950	-2.03056	3.456150	5.183332	-.128989	-10.2687	1.031018
#3	105.7325	-1.49144	4.200870	1.603339	-.077109	-5.39118	-1.55771
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.814860	.3834305	4.272185	-3.29596	752.7623	3073.444
SDEV	2.406251	2.514015	.433033	4.20409	3.3958	6.249
%RSD	295.2962	655.6638	10.13610	127.5529	.4511069	.2033216
#1	-2.35058	2.512702	4.725556	-7.84727	749.0966	3079.933
#2	-2.05230	1.027573	4.228144	-2.48266	753.3896	3067.467
#3	1.958298	-2.38998	3.862856	.4420610	755.8007	3072.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103068-10 OPERATOR:
RUN TIME: 03/23/11 01:10:22
COMMENT: SDG:1103068 CLIENTID:GW06-0311 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0269262	140.9509	169.9250	-.076620	102784.8	-.067380	.7482098
SDEV	.6316818	.5970	.8944	.020346	1348.1	.108775	.4502630
%RSD	2345.977	.4235468	.5263412	26.55507	1.311573	161.4345	60.17870
#1	-.116060	140.6943	169.0374	-.053135	101562.2	-.190560	.3463770
#2	-.521006	141.6332	170.8260	-.088934	102561.6	.0154698	.6634086
#3	.7178450	140.5250	169.9116	-.087791	104230.6	-.027050	1.234844
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3420023	1.627905	707.6570	1345.256	32675.18	12.59367	12396.11
SDEV	.5012365	.244701	7.9130	25.113	279.83	.08276	172.00
%RSD	146.5594	15.03166	1.118200	1.866794	.8564068	.6571214	1.387494
#1	.3108257	1.634473	698.5978	1317.227	32352.06	12.50286	12203.23
#2	-.142918	1.379986	713.2179	1365.710	32838.16	12.66483	12533.53
#3	.8580993	1.869255	711.1554	1352.832	32835.31	12.61333	12451.58
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.911933	-2.62868	.4943809	2.912397	.5739403	-5.56897	-.890493
SDEV	.068391	2.04649	.3091155	.124136	.2168345	1.80713	1.251513
%RSD	3.577067	77.85240	62.52576	4.262315	37.77998	32.45005	140.5416
#1	1.874802	-.267355	.2314189	2.968742	.4526753	-5.90979	.2036907
#2	1.990859	-3.88828	.4168390	2.770082	.8242786	-7.18143	-2.25512
#3	1.870140	-3.73039	.8348849	2.998368	.4448668	-3.61569	-.620054
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.312505	-1.62795	1.668782	.5642955	-1.62075	-7.22909	-4.74411
SDEV	.127043	1.27500	.509314	5.103345	.72332	7.23706	5.66364
%RSD	3.835255	78.31952	30.52012	904.3745	44.62878	100.1103	119.3825
#1	3.181727	-3.08420	2.214037	5.464827	-2.42687	-13.0308	-2.35857
#2	3.320338	-.712412	1.587004	-4.72018	-1.02840	.8804379	-11.2103
#3	3.435451	-1.08723	1.205304	.9482352	-1.40699	-9.53693	-.663483
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.4471769	1.891328	3.047312	-.449959	143.6997	3078.578
SDEV	1.857547	2.673737	.366142	4.450201	.9259	15.707
%RSD	415.3942	141.3683	12.01524	989.0231	.6443542	.5102152
#1	-1.26603	-.049043	2.784556	-1.01558	142.6335	3096.600
#2	.1861243	.7818272	2.891847	-4.59031	144.3016	3067.800
#3	2.421441	4.941198	3.465534	4.256013	144.1640	3071.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032004-BLK1 OPERATOR:
RUN TIME: 03/23/11 01:17:22
COMMENT: SDG:1103087 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0116720	-8.01843	-.587787	-.119751	4.605159	-.198431	.1586598
SDEV	.8922046	2.26119	.079539	.010305	.271834	.114681	.1263105
%RSD	7643.961	28.19992	13.53194	8.605287	5.902814	57.79420	79.61091
#1	-1.00435	-10.6239	-.655634	-.131617	4.882475	-.281581	.0702397
#2	.6673313	-6.56840	-.607474	-.114587	4.339161	-.246110	.1024171
#3	.3720373	-6.86301	-.500254	-.113049	4.593842	-.067601	.3033226
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.087384	-.110869	-6.25257	1.929107	-.572162	.4114068	74.53244
SDEV	.416713	.483822	4.59699	2.285446	.525267	.0924797	41.85443
%RSD	476.8738	436.3904	73.52170	118.4717	91.80402	22.47890	56.15599
#1	-.455943	-.609853	-11.5555	2.733842	.0314321	.3101607	56.38761
#2	.3648004	.3562110	-3.39667	-.649855	-.822366	.4326288	122.3975
#3	-.171011	-.078965	-3.80557	3.703334	-.925551	.4914308	44.81224
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.066019	-.899183	.0617376	.8759195	.2208763	-2.43322	-1.36818
SDEV	.169874	4.552418	.2285035	.1074622	.9174944	1.49220	1.02408
%RSD	257.3098	506.2837	370.1206	12.26850	415.3883	61.32612	74.84988
#1	-.227814	-5.27745	-.197164	.7644389	1.254753	-.722339	-1.66684
#2	.1109198	-1.22949	.1471289	.8844667	-.095761	-3.11169	-.227967
#3	-.081163	3.809393	.2352481	.9788528	-.496363	-3.46564	-2.20972
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.70117	-1.29154	.9718591	.9478589	-2.52838	-3.82464	-1.74249
SDEV	2.30745	2.73269	.7466922	3.256137	.23972	3.02509	.83194
%RSD	135.6388	211.5837	76.83132	343.5255	9.481234	79.09458	47.74438
#1	-2.84037	1.691678	1.032180	-.502539	-2.25206	-.349627	-.912360
#2	.9543287	-3.67359	1.686561	4.677170	-2.68077	-5.86930	-1.73887
#3	-3.21747	-1.89270	.1968361	-1.33105	-2.65232	-5.25501	-2.57623
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	10.00000
LOW	-10.0000

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.8376164	1.734172	-1.28275	-.244299	-.778538	3098.955
SDEV	4.034703	2.391509	.22759	10.80622	1.035655	12.601
%RSD	481.6887	137.9049	17.74263	4423.360	133.0257	.4066359
#1	-3.79988	3.142842	-1.16947	-12.5134	-1.96135	3085.666
#2	2.770317	-1.02712	-1.54475	7.859212	-.034484	3110.733
#3	3.542414	3.086790	-1.13402	3.921255	-.339780	3100.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032004-BS1 OPERATOR:
RUN TIME: 03/23/11 01:24:23
COMMENT: SDG:1103087 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	495.0517	2585.495	502.8890	482.2964	9936.506	495.6773	501.3232
SDEV	.9673	48.739	9.5687	9.9001	160.176	10.2204	9.8240
%RSD	.1953848	1.885076	1.902755	2.052696	1.612000	2.061906	1.959617
#1	495.5083	2596.548	505.7962	484.4958	9989.045	498.2530	503.5403
#2	493.9406	2532.179	492.2039	471.4816	9756.658	484.4155	490.5801
#3	495.7060	2627.758	510.6670	490.9118	10063.81	504.3635	509.8492
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	594.0000	2978.000	602.0000	591.0000	12216.00	592.0000	595.0000
LOW	396.0000	1986.000	402.0000	395.0000	8144.000	395.0000	397.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	499.4178	515.0356	5037.132	9037.856	5903.348	489.1011	10494.83
SDEV	9.7200	1.3978	99.626	158.389	122.302	9.8293	215.72
%RSD	1.946259	.2714072	1.977831	1.752508	2.071746	2.009659	2.055496
#1	500.6646	514.7481	5051.471	9062.025	5925.958	491.5384	10395.35
#2	489.1346	513.8038	4931.114	8868.772	5771.318	478.2825	10346.79
#3	508.4542	516.5548	5128.812	9182.772	6012.767	497.4824	10742.34
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	588.0000	6128.000	12009.00	7203.000	594.0000	12046.00
LOW	392.0000	392.0000	4086.000	8007.000	4803.000	396.0000	8031.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	502.9337	1028.489	502.9082	973.6793	998.6652	991.3738	1004.811
SDEV	10.4471	19.872	9.9986	19.5047	21.5396	19.8620	18.362
%RSD	2.077236	1.932156	1.988152	2.003200	2.156839	2.003478	1.827451
#1	505.1602	1026.601	505.7414	978.7540	1003.028	995.0194	1007.035
#2	491.5528	1009.629	491.7988	952.1388	975.2781	969.9416	985.4382
#3	512.0881	1049.238	511.1845	990.1451	1017.689	1009.160	1021.961
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	590.0000	1232.000	601.0000	1200.000	1195.000	1206.000	1190.000
LOW	394.0000	822.0000	401.0000	800.0000	797.0000	804.0000	794.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	991.9556	999.0480	998.8183	1000.592	1006.914	988.9994	992.5554
SDEV	19.4592	17.4825	23.5808	23.295	15.901	19.5775	20.0863
%RSD	1.961700	1.749920	2.360872	2.328149	1.579153	1.979521	2.023696
#1	995.4228	1003.376	1003.199	1003.687	1008.702	994.9465	995.0519
#2	970.9959	979.8080	973.3541	975.9044	990.1942	967.1380	971.3376
#3	1009.448	1013.960	1019.901	1022.186	1021.844	1004.914	1011.277
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-3.96221	-.752829	-1.95703	-3.83278	L-1.67174	3129.044
SDEV	1.27883	1.441873	.48611	2.08736	.34841	50.007
%RSD	32.27571	191.5273	24.83925	54.46085	20.84124	1.598141
#1	-4.82894	-1.85419	-1.97347	-6.07160	L-1.90126	3112.333
#2	-4.56422	.8791705	-2.43472	-3.48657	L-1.27083	3185.266
#3	-2.49347	-1.28347	-1.46291	-1.94016	L-1.84312	3089.533
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-01 OPERATOR:
RUN TIME: 03/23/11 01:31:23
COMMENT: SDG:1103087 CLIENTID:MW-3 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7172677	3097.702	155.5666	.2583482	38716.71	-.049750	1.149433
SDEV	.5764055	7.964	.3183	.0077187	1210.39	.075782	.023462
%RSD	80.36128	.2570995	.2046228	2.987725	3.126267	152.3248	2.041157
#1	.4124817	3103.126	155.9024	.2508099	38543.57	-.023724	1.153547
#2	.3572425	3101.422	155.5280	.2579991	40004.34	.0095887	1.124186
#3	1.382079	3088.559	155.2693	.2662355	37602.21	-.135116	1.170566
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.427471	4.052762	3036.420	1750.601	16087.66	16.63559	8839.241
SDEV	.023003	.195293	14.795	5.418	75.40	.02005	43.474
%RSD	.3097079	4.818756	.4872513	.3095079	.4686975	.1205192	.4918246
#1	7.418094	4.048638	3053.244	1751.398	16172.26	16.64784	8808.984
#2	7.453682	3.859564	3030.578	1744.828	16063.19	16.64648	8819.680
#3	7.410637	4.250084	3025.438	1755.577	16027.54	16.61245	8889.059
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.481740	-.656090	5.938231	8.382500	4.672324	-3.47764	-.575754
SDEV	.207620	2.386374	.078740	.106495	.709921	.80963	1.251874
%RSD	3.203151	363.7265	1.325978	1.270440	15.19417	23.28095	217.4323
#1	6.533649	.6431389	5.932556	8.325885	5.197698	-4.18936	-1.10401
#2	6.253091	.7987626	5.862482	8.505343	3.864684	-3.64674	.8536642
#3	6.658481	-3.41017	6.019655	8.316270	4.954590	-2.59681	-1.47691
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.973771	1.966307	6.018841	-.337893	-.698467	-5.35869	-2.54248
SDEV	.303552	.583173	1.344512	.689444	1.533842	2.80390	1.59101
%RSD	15.37931	29.65830	22.33839	204.0420	219.6012	52.32429	62.57702
#1	2.263651	1.397412	7.090524	-.573065	-1.37306	-8.03670	-2.27254
#2	1.999480	2.562780	4.510202	.4383683	1.057056	-2.44392	-4.25119
#3	1.658182	1.938727	6.455797	-.878982	-1.77939	-5.59546	-1.10371
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.412257	1.033114	-.511009	90.90768	19.27597	3073.711
SDEV	2.901127	2.132708	.116705	2.37445	.26910	10.821
%RSD	205.4249	206.4348	22.83815	2.611938	1.396061	.3520482
#1	-1.82043	-1.07435	-.476754	91.35474	19.52010	3066.333
#2	3.789414	.9834991	-.415265	88.34147	19.32039	3086.133
#3	2.267786	3.190197	-.641008	93.02682	18.98742	3068.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/23/11 01:38:24
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.39709	49416.92	972.1085	965.8946	48488.49	955.2142	957.6324
SDEV	.10902	1042.61	21.1010	20.9415	875.31	20.9236	21.0221
%RSD	.1142771	2.109816	2.170638	2.168091	1.805183	2.190457	2.195213
#1	95.27312	50093.23	985.2958	979.0991	49435.71	968.3250	970.7144
#2	95.47804	49941.30	983.2582	976.8358	48320.23	966.2337	968.7993
#3	95.44009	48216.22	947.7717	941.7488	47709.53	931.0840	933.3834
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	973.8326	977.6700	24193.53	48435.57	48561.38	957.2682	50526.80
SDEV	20.8392	2.3082	530.72	1020.56	1092.86	20.9829	1080.21
%RSD	2.139914	.2360887	2.193653	2.107048	2.250479	2.191956	2.137890
#1	987.4083	978.4888	24533.02	49125.56	49256.06	970.4985	51451.32
#2	984.2507	979.4571	24465.62	48917.93	49126.41	968.2315	50789.67
#3	949.8388	975.0640	23581.94	47263.25	47301.68	933.0747	49339.42
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	967.1269	970.5532	978.2976	1040.679	962.6353	976.2010	1011.373
SDEV	20.8348	21.0602	21.8411	23.735	17.7327	15.7234	18.207
%RSD	2.154294	2.169916	2.232560	2.280729	1.842100	1.610667	1.800184
#1	981.0358	985.4363	992.0670	1055.531	974.1282	988.2687	1023.635
#2	977.1722	979.7668	989.7112	1053.202	971.5647	981.9145	1020.031
#3	943.1726	946.4562	953.1143	1013.305	942.2128	958.4197	990.4529
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	974.3940	958.5781	964.6561	1013.951	1010.082	967.8964	980.3430
SDEV	19.4851	16.5586	18.3295	17.462	18.610	12.8690	17.8781
%RSD	1.999712	1.727418	1.900102	1.722178	1.842459	1.329580	1.823656
#1	983.8795	969.9338	976.2182	1026.840	1022.031	972.4763	996.1490
#2	987.3201	966.2222	974.2279	1020.937	1019.576	977.8490	983.9402
#3	951.9825	939.5783	943.5223	994.0781	988.6396	953.3640	960.9399
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	976.8405	974.8311	989.2522	990.5077	1012.589	3057.733
SDEV	16.1883	19.2780	19.8827	20.7844	20.948	58.370
%RSD	1.657206	1.977568	2.009869	2.098360	2.068721	1.908940
#1	988.0980	987.6171	1000.788	1003.030	1025.076	3018.400
#2	984.1351	984.2188	1000.674	1001.977	1024.286	3030.000
#3	958.2885	952.6575	966.2938	966.5156	988.4053	3124.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

ANALYSIS REPORT QC STANDARD 03/23/11 01:52:22 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/23/11 01:45:25
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2666436	14.22152	-.291705	.1508041	4.435012	.1048798	.5573545
SDEV	.5140887	1.23089	.085913	.0457270	.251225	.0733915	.1931884
%RSD	192.7999	8.655100	29.45215	30.32213	5.664584	69.97674	34.66167
#1	-.102362	15.62046	-.203089	.2018042	4.257461	.1543376	.3678771
#2	.0484512	13.30455	-.374633	.1134634	4.722460	.0205543	.7540514
#3	.8538415	13.73956	-.297394	.1371446	4.325115	.1397475	.5501350
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5981136	-.051616	3.344444	13.24783	10.86596	-.125026	118.7378
SDEV	.1952127	.195630	4.149138	7.22956	1.97124	.065746	152.7891
%RSD	32.63807	379.0079	124.0606	54.57170	18.14140	52.58622	128.6776
#1	.4323936	-.255761	2.071296	21.21073	11.90660	-.056999	205.9274
#2	.5486456	-.033296	-.018940	7.095946	8.592474	-.188226	-57.6838
#3	.8133015	.1342091	7.980977	11.43681	12.09879	-.129851	207.9700
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6731579	-.583061	.2393071	.1471580	.2780332	-1.61318	-1.14914
SDEV	.4455447	1.302955	.1567619	.1070101	.1526596	.75643	.80696
%RSD	66.18726	223.4680	65.50658	72.71784	54.90699	46.89050	70.22336
#1	.4794148	.3919821	.2169289	.1594513	.2839618	-1.38814	-.390185
#2	.3572852	-.078283	.0949369	.0345321	.4276421	-2.45660	-1.06044
#3	1.182774	-2.06288	.4060556	.2474906	.1224956	-.994814	-1.99678
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1471678	-.626655	.7255284	.5866048	-2.01971	.0471004	-2.44609
SDEV	1.040615	.992436	.6192994	1.542518	1.73997	2.403328	1.15566
%RSD	707.0939	158.3705	85.35839	262.9569	86.14943	5102.565	47.24508
#1	.0362108	.4198641	.2116215	-1.05119	-.064169	-1.89277	-1.14020
#2	1.238815	-1.55430	1.413129	2.011782	-2.59825	-.701586	-3.33679
#3	-.833522	-.745527	.5518352	.7992261	-3.39671	2.735658	-2.86128
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.099926	.8197722	-.253673	2.319072	-.639275	3040.356
SDEV	.384212	1.492202	.994697	5.726600	.410262	11.301
%RSD	384.4945	182.0265	392.1180	246.9349	64.17608	.3716941
#1	.3412727	-.502966	.8946876	-1.76406	-.479027	3049.533
#2	-.280200	.5248781	-.847181	-.143803	-.333323	3043.800
#3	-.360852	2.437405	-.808525	8.865078	-1.10548	3027.733
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032004-DUP1 OPERATOR:
RUN TIME: 03/23/11 01:52:25
COMMENT: SDG:1103087 CLIENTID:MW-3D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5265262	3109.357	154.7253	.2570730	38501.06	-.120143	1.054697
SDEV	.2413319	72.116	3.2569	.0140328	139.53	.071855	.150078
%RSD	45.83473	2.319333	2.104967	5.458671	.3624167	59.80844	14.22951
#1	.3639216	3026.381	150.9673	.2707748	38345.07	-.096724	1.226893
#2	.4118416	3156.924	156.7279	.2577132	38544.13	-.200786	.9854738
#3	.8038155	3144.767	156.4808	.2427311	38613.98	-.062918	.9517230
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	7.338608	4.159950	3024.030	1729.622	15933.23	17.14366	8805.706
SDEV	.108543	.048739	59.057	22.288	295.41	.33717	149.104
%RSD	1.479074	1.171623	1.952909	1.288579	1.854050	1.966761	1.693268
#1	7.251895	4.215918	2955.841	1704.186	15592.12	16.75434	8633.656
#2	7.303591	4.137085	3058.689	1745.728	16105.10	17.34109	8897.317
#3	7.460337	4.126848	3057.562	1738.952	16102.47	17.33556	8886.145
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.536366	.0649798	5.780438	7.132393	4.476513	-3.36064	-1.66417
SDEV	.073920	1.684565	.029356	.180384	.631174	1.71500	1.66964
%RSD	1.130898	2592.443	.5078579	2.529087	14.09967	51.03203	100.3287
#1	6.586368	-1.09170	5.806384	6.929524	3.748004	-5.32049	.1081572
#2	6.451457	1.997693	5.748573	7.274713	4.859117	-2.62666	-1.89319
#3	6.571273	-.711050	5.786357	7.192943	4.822418	-2.13478	-3.20748
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.089720	1.440643	5.987733	.6857354	-2.84130	-7.84084	-1.12784
SDEV	.715724	1.285657	1.451747	1.508640	2.73459	4.59602	.41758
%RSD	65.67962	89.24187	24.24534	220.0032	96.24416	58.61647	37.02508
#1	.2758924	2.450704	4.391311	1.087640	-.384719	-12.9516	-1.51451
#2	1.621230	1.877816	6.343064	-.983157	-2.35149	-6.52371	-.685023
#3	1.372037	-.006590	7.228826	1.952723	-5.78769	-4.04717	-1.18399
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.051447	1.456855	-.342687	87.59290	19.75761	3090.600
SDEV	1.782049	3.541348	.238856	2.28548	.61945	47.887
%RSD	58.40013	243.0816	69.70081	2.609204	3.135267	1.549426
#1	4.998074	5.539333	-.608530	86.79651	20.39819	3145.800
#2	2.655785	-.787302	-.146142	85.81216	19.16170	3065.800
#3	1.500482	-.381465	-.273391	90.17002	19.71295	3060.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032004-MS1 OPERATOR:
RUN TIME: 03/23/11 01:59:26
COMMENT: SDG:1103087 CLIENTID:MW-3S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	50.40154	6394.040	2121.108	48.66076	38789.98	49.00748	496.0396
SDEV	.14623	156.463	52.683	1.23387	161.77	1.18003	12.2021
%RSD	.2901211	2.447007	2.483756	2.535663	.4170414	2.407857	2.459906
#1	50.49127	6227.730	2064.446	47.37276	38974.98	47.77197	483.1004
#2	50.23280	6538.319	2168.611	49.83224	38719.82	50.12283	507.3386
#3	50.48054	6416.072	2130.268	48.77727	38675.12	49.12765	497.6799
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	206.3668	257.7584	4276.855	1717.519	16083.19	504.1226	8740.392
SDEV	5.1719	1.5665	106.332	27.680	404.61	12.4446	117.337
%RSD	2.506179	.6077507	2.486211	1.611637	2.515723	2.468576	1.342473
#1	200.9027	256.1462	4163.049	1688.997	15656.34	490.8830	8628.509
#2	211.1861	257.8542	4373.665	1744.273	16461.11	515.5802	8862.513
#3	207.0114	259.2749	4293.852	1719.288	16132.11	505.9046	8730.153
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	502.9348	47.55409	502.7082	478.1624	24.36184	48.05517	81.48360
SDEV	12.6162	1.93247	12.3337	12.2945	.25849	4.68560	3.13495
%RSD	2.508515	4.063740	2.453458	2.571204	1.061029	9.750452	3.847336
#1	489.8025	45.95080	489.6404	464.8737	24.08992	48.49612	78.35131
#2	514.9622	49.69982	514.1456	489.1325	24.39123	43.16469	84.62120
#3	504.0398	47.01167	504.3387	480.4811	24.60438	52.50471	81.47831
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	40.45655	20.78388	26.14259	86.22588	79.11212	41.13872	51.50430
SDEV	1.74153	2.33114	1.47328	4.34412	3.69711	2.46964	6.07369
%RSD	4.304704	11.21608	5.635549	5.038069	4.673260	6.003210	11.79258
#1	41.11871	21.84914	25.20382	81.50747	76.77176	39.64794	52.90973
#2	41.76989	22.39208	25.38333	87.11067	83.37434	39.77880	44.85110
#3	38.48106	18.11043	27.84063	90.05948	77.19026	43.98942	56.75207
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.482639	-2.36936	-.844321	98.85559	19.67823	3111.711
SDEV	1.977691	.50311	.864826	4.17604	.19397	56.713
%RSD	56.78713	21.23387	102.4286	4.224383	.9856904	1.822555
#1	1.979650	-1.78979	.0775216	103.5702	19.54489	3164.467
#2	2.745164	-2.62457	-.972708	95.62159	19.90075	3051.733
#3	5.723103	-2.69371	-1.63778	97.37497	19.58906	3118.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: SDI1103087-01 OPERATOR:
RUN TIME: 03/23/11 02:06:27
COMMENT: SDG:1103087 CLIENTID:MW-3L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4545162	720.0829	31.22024	-.025040	8609.412	-.099980	.7801133
SDEV	.5088000	21.3452	.75136	.020151	153.210	.099853	.2147606
%RSD	111.9432	2.964275	2.406630	80.47421	1.779567	99.87297	27.52941
#1	-.049556	705.6180	30.78545	-.022155	8515.730	-.171948	.8436905
#2	.9679161	710.0326	30.78745	-.006488	8526.286	.0140175	.9559073
#3	.4451883	744.5981	32.08783	-.046479	8786.219	-.142011	.5407420
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.637995	.6410718	643.0565	314.0318	3276.484	3.195360	1867.091
SDEV	.501830	.5003286	21.7848	4.3989	69.216	.103977	36.431
%RSD	30.63687	78.04564	3.387695	1.400791	2.112500	3.253984	1.951235
#1	1.062270	.1333638	622.0905	318.8739	3239.884	3.142738	1907.114
#2	1.982770	1.133679	641.5022	310.2819	3233.253	3.128214	1858.297
#3	1.868945	.6561725	665.5768	312.9396	3356.316	3.315129	1835.861
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.776752	1.779244	1.548445	1.727323	.9042926	-2.15230	-1.87101
SDEV	.112291	.910359	.041150	.135504	.4150868	2.45782	1.06686
%RSD	6.320026	51.16552	2.657536	7.844763	45.90182	114.1953	57.02065
#1	1.647417	1.786724	1.563602	1.626745	.8861049	-1.22741	-.811211
#2	1.833434	2.685840	1.579867	1.673811	1.328174	-.291097	-2.94480
#3	1.849404	.8651673	1.501866	1.881412	.4985987	-4.93838	-1.85702
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.02621	-2.11319	2.406414	-.726941	-2.44621	-5.41575	-.527036
SDEV	1.08206	2.65916	1.518231	1.440311	1.97893	3.72577	3.020089
%RSD	53.40311	125.8359	63.09100	198.1332	80.89815	68.79507	573.0329
#1	-3.24094	.9524145	.8490208	-2.03904	-.202198	-1.28570	-1.20228
#2	-1.67214	-3.79650	3.882190	-.955934	-3.94171	-6.43751	2.773520
#3	-1.16553	-3.49549	2.488032	.8141490	-3.19471	-8.52404	-3.15235
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.927899	.9244372	-1.23560	24.88193	2.831478	3027.733
SDEV	2.111466	3.026454	.47934	7.59172	.515728	52.236
%RSD	109.5216	327.3834	38.79420	30.51096	18.21410	1.725251
#1	-.123157	3.224316	-.991659	17.51431	2.244914	3060.000
#2	1.811864	2.053168	-1.78785	32.67947	3.035698	3055.733
#3	4.094990	-2.50417	-.927296	24.45202	3.213823	2967.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032004-PS1 OPERATOR:
RUN TIME: 03/23/11 02:13:27
COMMENT: SDG:1103087 CLIENTID:MW-3A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.45997	3240.716	155.5398	9.960594	40209.20	9.892763	100.8327
SDEV	.16171	46.468	1.4735	.078032	428.52	.232603	1.2850
%RSD	.7903518	1.433895	.9473269	.7834051	1.065736	2.351243	1.274359
#1	20.51759	3212.946	154.4634	9.924330	40044.91	9.951545	100.3968
#2	20.27734	3294.362	157.2191	10.05016	40695.56	10.09034	102.2789
#3	20.58497	3214.841	154.9369	9.907294	39887.13	9.636409	99.82238
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	27.48157	55.38009	3058.665	1746.974	16002.90	46.08489	8895.895
SDEV	.32888	.40617	38.217	34.025	166.97	.41473	263.989
%RSD	1.196723	.7334282	1.249480	1.947629	1.043343	.8999255	2.967534
#1	27.73265	55.82114	3046.148	1733.379	15907.95	45.87301	8837.132
#2	27.60278	55.02143	3101.571	1785.694	16195.68	46.56276	9184.314
#3	27.10929	55.29769	3028.276	1721.849	15905.05	45.81890	8666.239
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	85.94277	45.30125	106.5247	117.8253	25.07769	66.05748	121.5147
SDEV	1.04278	1.48347	1.3282	1.0659	.42289	2.49984	1.8099
%RSD	1.213339	3.274669	1.246879	.9046048	1.686311	3.784334	1.489408
#1	85.64148	44.55392	105.9622	117.1490	25.55186	64.53360	119.4521
#2	87.10302	44.34007	108.0416	119.0539	24.73958	68.94251	122.8371
#3	85.08381	47.00975	105.5702	117.2729	24.94163	64.69633	122.2550
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.35125	22.37760	26.42076	123.8476	120.3461	67.57639	65.29520
SDEV	.61046	2.21037	1.69276	1.7907	2.9939	6.58843	2.66085
%RSD	3.154636	9.877593	6.406941	1.445853	2.487702	9.749601	4.075103
#1	19.20035	20.44934	28.09436	124.5126	116.9217	60.20451	66.69095
#2	18.83039	24.78986	24.70947	125.2105	121.6481	72.88990	66.96777
#3	20.02301	21.89359	26.45845	121.8195	122.4684	69.63474	62.22687
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.984796	1.183221	-.538029	90.47115	18.97207	3068.867
SDEV	2.798497	5.002307	.451578	6.05827	.43012	29.428
%RSD	93.75843	422.7705	83.93185	6.696357	2.267130	.9589354
#1	.2628691	-2.48454	-1.04246	96.63741	19.20568	3082.733
#2	2.837473	6.881520	-.400218	90.24908	19.23484	3035.066
#3	5.854044	-.847323	-.171413	84.52697	18.47570	3088.800
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-02 OPERATOR:
RUN TIME: 03/23/11 02:20:28
COMMENT: SDG:1103087 CLIENTID:MW-2 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.008770	6.533910	214.2555	-.076155	31257.48	-.166293	.4011371
SDEV	.701793	8.245792	10.3308	.023722	1873.28	.093259	.1728061
%RSD	8002.564	126.2000	4.821712	31.14935	5.993064	56.08151	43.07906
#1	.6995876	-2.65374	202.3272	-.052505	29357.85	-.064021	.5964277
#2	-.022087	13.29186	220.3288	-.076012	31311.33	-.246629	.2680218
#3	-.703809	8.963612	220.1105	-.099948	33103.25	-.188228	.3389618
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2905637	.2668447	2.097388	3487.855	6171.070	9.547272	4784.672
SDEV	.2034398	.4261251	7.788263	141.388	297.822	.449208	170.905
%RSD	70.01555	159.6903	371.3316	4.053731	4.826093	4.705098	3.571924
#1	.3909729	.4677500	7.648389	3324.653	5827.189	9.033323	4622.912
#2	.4242782	.5553783	5.449434	3565.646	6345.653	9.864919	4767.656
#3	.0564400	-.222594	-6.80566	3573.265	6340.368	9.743572	4963.449
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4129136	1.436873	1.431267	2.270495	-.117225	-2.90521	-1.38325
SDEV	.4153812	2.135425	.180996	.098622	.374087	2.75242	1.26233
%RSD	100.5976	148.6161	12.64583	4.343640	319.1176	94.74079	91.25792
#1	.8743222	-.930939	1.514949	2.324265	-.315775	-5.48322	.0610024
#2	.2956469	3.216714	1.555279	2.330546	.3142760	-.006482	-1.93489
#3	.0687717	2.024844	1.223572	2.156674	-.350178	-3.22593	-2.27586
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.55291	-2.81906	1.227498	.9100964	-2.53205	-5.42909	-1.64901
SDEV	.76565	2.40311	1.008658	.5099297	1.70254	1.68098	3.34415
%RSD	49.30412	85.24509	82.17189	56.03030	67.23941	30.96252	202.7969
#1	-2.36693	-1.45517	.2489223	1.413293	-.617814	-6.54805	-4.95529
#2	-1.44463	-1.40821	1.169809	.3936902	-3.10136	-3.49606	1.731762
#3	-.847159	-5.59380	2.263762	.9233059	-3.87699	-6.24317	-1.72351
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.4126146	2.619337	-.116015	1.721951	7.616128	3163.533
SDEV	1.381946	1.460195	.415063	5.182100	.519635	118.768
%RSD	334.9242	55.74675	357.7663	300.9435	6.822822	3.754297
#1	.2577285	3.764901	-.475774	6.453936	7.076922	3300.600
#2	1.865479	3.117970	.3381041	2.527770	7.657776	3098.933
#3	-.885363	.9751390	-.210376	-3.81585	8.113686	3091.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-03 OPERATOR:
RUN TIME: 03/23/11 02:27:28
COMMENT: SDG:1103087 CLIENTID:MW-8 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2980110	2165.251	48.54871	.0079492	10331.64	1.831375	2.342364
SDEV	.1975125	164.578	3.52740	.0116539	613.73	.243564	.131626
%RSD	66.27689	7.600876	7.265692	146.6056	5.940258	13.29954	5.619383
#1	.3840823	2347.672	52.41295	.0076459	11017.54	2.093863	2.472928
#2	.0720684	2027.913	45.50155	.0197517	9834.385	1.612675	2.209700
#3	.4378824	2120.167	47.73166	-.003550	10142.98	1.787587	2.344466
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.670110	10.56160	3204.126	3746.751	1537.898	60.74698	1028.933
SDEV	.659999	.20473	231.828	238.208	110.746	4.39221	20.243
%RSD	7.612343	1.938458	7.235293	6.357725	7.201119	7.230329	1.967346
#1	9.349845	10.43281	3460.691	4006.799	1659.075	65.56741	1049.459
#2	8.031799	10.45431	3009.701	3539.111	1441.928	56.97146	1028.355
#3	8.628685	10.79768	3141.985	3694.343	1512.692	59.70208	1008.986
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	5.838677	-3.16147	7.279534	152.7039	1.072707	-4.31494	.1022756
SDEV	.419931	3.09348	.383640	11.3439	.433394	2.85167	.7883069
%RSD	7.192231	97.84965	5.270123	7.428718	40.40192	66.08817	770.7672
#1	6.209083	-5.63998	7.649366	165.1942	1.517115	-1.31272	.2980568
#2	5.382473	-4.14985	6.883435	143.0413	.6512370	-6.98738	-.765472
#3	5.924477	.3054283	7.305802	149.8761	1.049770	-4.64473	.7742422
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.26622	-1.17834	2.191882	2.453241	-1.07547	-11.0530	-.954990
SDEV	.80648	.96556	.424715	1.500713	.48263	1.7961	3.530455
%RSD	63.69200	81.94249	19.37672	61.17266	44.87640	16.24941	369.6848
#1	-2.14800	-.763890	2.651619	3.198626	-1.15434	-9.85144	2.945950
#2	-1.08465	-2.28193	2.109878	.7257645	-1.51380	-13.1177	-3.93070
#3	-.565995	-.489191	1.814148	3.435332	-.558257	-10.1899	-1.88023
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.965529	2.483099	-.994550	139.5128	12.55654	3033.889
SDEV	.339274	2.002382	.286312	9.6214	.90418	173.169
%RSD	17.26122	80.64041	28.78811	6.896443	7.200869	5.707824
#1	2.352821	1.599985	-.974908	150.2487	13.56496	2841.600
#2	1.822982	1.074086	-1.29018	131.6695	11.81810	3177.533
#3	1.720786	4.775227	-.718564	136.6203	12.28658	3082.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-04 OPERATOR:
RUN TIME: 03/23/11 02:34:29
COMMENT: SDG:1103087 CLIENTID:MW-9 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3083724	222.7785	611.7540	-.053611	39215.06	-.078616	8.203211
SDEV	.0533639	2.1963	2.1119	.018669	1479.94	.107648	.157971
%RSD	17.30502	.9858457	.3452279	34.82298	3.773911	136.9300	1.925723
#1	.2502685	221.2677	609.3157	-.034122	38319.39	.0431368	8.143901
#2	.3551911	225.2979	613.0069	-.055378	40923.27	-.117802	8.382254
#3	.3196575	221.7699	612.9395	-.071334	38402.51	-.161181	8.083479
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.194037	.7829441	544.5033	7568.738	9490.648	782.1126	7539.161
SDEV	.100078	.1315018	9.6420	38.849	36.309	2.6212	123.368
%RSD	4.561377	16.79580	1.770789	.5132840	.3825732	.3351494	1.636362
#1	2.305002	.9346777	533.9655	7525.473	9449.420	779.0858	7447.167
#2	2.166497	.7121176	552.8841	7600.633	9517.856	783.6271	7679.352
#3	2.110613	.7020371	546.6603	7580.109	9504.669	783.6248	7490.964
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.826784	-2.02835	1.036565	2.948335	1.198305	-3.13514	-1.60075
SDEV	.171776	1.82884	.263117	.102350	.254248	1.02504	1.02757
%RSD	4.488790	90.16393	25.38359	3.471448	21.21733	32.69511	64.19282
#1	3.976721	-1.62112	.8017104	3.066517	1.086444	-3.78120	-1.62444
#2	3.639360	-.437449	1.320915	2.888668	1.019167	-1.95324	-.561544
#3	3.864272	-4.02647	.9870683	2.889820	1.489305	-3.67099	-2.61627
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.47468	-.537150	2.060450	-.636724	-2.08599	-6.44713	-1.48558
SDEV	1.04332	2.470258	1.090934	4.154462	1.58392	4.23711	3.29244
%RSD	70.74912	459.8825	52.94642	652.4741	75.93124	65.72092	221.6261
#1	-2.66854	-3.36171	3.302742	2.937533	-3.90596	-8.03276	-1.66255
#2	-.737956	.5307576	1.258557	.3470798	-1.01913	-9.66274	1.891773
#3	-1.01754	1.219498	1.620050	-5.19479	-1.33290	-1.64589	-4.68598
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.4169330	1.632063	-.870835	27.55220	.6484804	3080.000
SDEV	.5375918	2.231909	.274231	.84602	.1462173	3.171
%RSD	128.9396	136.7538	31.49053	3.070599	22.54768	.1029677
#1	-.197474	.9827551	-.573126	28.40369	.8154522	3083.533
#2	.8008388	-.203194	-1.11312	26.71176	.5433194	3079.066
#3	.6474339	4.116628	-.926258	27.54116	.5866695	3077.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/23/11 02:41:29
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.82175	-2.94898	Q-.442350	4.873642	1.532784	5.101806	52.76504
SDEV	.35380	1.15756	.046484	.034420	.385108	.108238	.33618
%RSD	3.269388	39.25286	10.50838	.7062569	25.12474	2.121557	.6371269
#1	10.42507	-4.21971	Q-.401071	4.907599	1.300908	5.081726	52.78117
#2	10.93548	-2.67260	Q-.433277	4.874552	1.320115	5.218678	53.09286
#3	11.10471	-1.95463	Q-.492701	4.838777	1.977331	5.005015	52.42108
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.35277	25.53933	1.038115	13.09119	.1690277	14.97452	255.5750
SDEV	.31658	.17040	9.507265	11.09402	2.783551	.01801	220.4509
%RSD	3.057957	.6672034	915.8200	84.74415	1646.801	.1202423	86.25683
#1	10.10539	25.44692	-5.48527	24.61371	2.793653	14.95393	434.5980
#2	10.70954	25.73597	11.94652	12.17769	.4634689	14.98235	322.7850
#3	10.24338	25.43510	-3.34691	2.482163	-2.75004	14.98729	9.341894
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.19353	25.79281	52.43653	54.71322	10.10639	32.51474	63.50302
SDEV	.26626	.97443	.38358	.02999	1.16565	1.62813	1.09895
%RSD	.6310526	3.777922	.7315088	.0548123	11.53383	5.007368	1.730549
#1	42.48518	24.98564	52.36249	54.71198	8.765620	30.65259	63.63221
#2	42.13195	25.51752	52.85174	54.74381	10.87925	33.66972	64.53166
#3	41.96345	26.87527	52.09538	54.68387	10.67430	33.22190	62.34518
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.510802	8.219875	11.04322	64.18006	63.16099	29.77158	33.88024
SDEV	.342356	.596230	2.00896	1.42031	1.11254	3.05266	3.52243
%RSD	4.022602	7.253514	18.19180	2.213016	1.761435	10.25359	10.39672
#1	8.328310	8.839662	8.723636	63.45486	63.71673	31.30455	30.32309
#2	8.298354	8.169577	12.22706	65.81657	63.88616	26.25624	37.36689
#3	8.905742	7.650389	12.17896	63.26874	61.88007	31.75395	33.95074
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	51.80087	54.04195	51.41346	57.23667	51.46241	3032.555
SDEV	2.96075	2.07916	.99519	3.36158	.66701	7.916
%RSD	5.715631	3.847300	1.935652	5.873130	1.296117	.2610454
#1	48.80181	55.07663	51.02123	53.40620	50.69882	3031.533
#2	54.72175	55.40076	50.67416	59.69586	51.93141	3040.933
#3	51.87906	51.64845	52.54499	58.60795	51.75701	3025.200
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

ANALYSIS REPORT QC STANDARD 03/23/11 02:55:25 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/23/11 02:48:29
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3704887	264457.1	2.372096	.6013594	252906.7	2.825427	5.517436
SDEV	.2951507	478.9	.143891	.0517201	1299.4	.045603	.522145
%RSD	79.66525	.1810776	6.065970	8.600527	.5137687	1.614031	9.463541
#1	.0962417	264377.3	2.205955	.6375569	253085.4	2.868137	5.014849
#2	.6828417	264023.2	2.456718	.6243979	251527.2	2.830748	5.480304
#3	.3323826	264970.9	2.453615	.5421234	254107.4	2.777397	6.057157
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	45.84968	23.17332	100207.2	2.526447	265661.2	24.87636	709.5855
SDEV	.07771	.18072	492.3	17.25033	1566.8	.11514	331.5648
%RSD	.1694845	.7798731	.4912594	682.7900	.5897798	.4628626	46.72655
#1	45.76120	23.09252	99842.27	-16.9836	264500.7	24.78554	338.8854
#2	45.88096	23.38035	100012.2	8.804244	265039.4	24.83766	812.0419
#3	45.90687	23.04711	100767.1	15.75874	267443.5	25.00586	977.8291
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.86823	-.217198	.4487457	35.21670	14.07052	-1.96565	1.158347
SDEV	.49477	2.403924	.3891622	.23144	1.23748	1.03999	1.131956
%RSD	2.262488	1106.791	86.72222	.6571903	8.794840	52.90815	97.72170
#1	21.34933	-2.94829	-.000048	34.97879	13.26590	-3.16634	.6443939
#2	22.33468	1.578130	.6535164	35.23023	15.49548	-1.38321	2.456099
#3	21.92069	.7185640	.6927690	35.44108	13.45019	-1.34739	.3745476
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0109783	10.81271	15.69184	2.259326	.6045620	-6.82227	.4549007
SDEV	1.779723	2.88716	3.07553	7.940877	3.454444	3.02265	3.064909
%RSD	16211.34	26.70152	19.59956	351.4710	571.3962	44.30562	673.7534
#1	2.014629	14.05891	12.86485	-6.85050	4.382102	-3.34215	-3.08269
#2	-1.38639	8.532120	18.96678	7.717498	-.174780	-8.79257	2.311790
#3	-.595305	9.847092	15.24390	5.910977	-2.39364	-8.33208	2.135601
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-4.11221	6.002317	-1.24017	-15.8985	-4.92059	2959.644
SDEV	2.59178	3.617192	.58995	4.2479	.36997	2.496
%RSD	63.02639	60.26326	47.56973	26.71904	7.518788	.0843230
#1	-1.33466	2.521451	-1.64767	-19.4857	-5.15004	2960.666
#2	-6.46598	9.741940	-.563670	-11.2077	-5.11794	2956.800
#3	-4.53598	5.743562	-1.50917	-17.0021	-4.49379	2961.467
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

ANALYSIS REPORT QC STANDARD 03/23/11 03:02:26 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/23/11 02:55:29
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	210.6204	261815.0	529.4560	504.3622	249507.5	1010.322	515.1068
SDEV	.3079	756.5	1.6607	2.2305	2390.3	3.486	1.5926
%RSD	.1461766	.2889568	.3136600	.4422496	.9580209	.3449893	.3091827
#1	210.2940	260949.3	527.5482	501.8580	247179.8	1006.641	513.3649
#2	210.6616	262349.2	530.5776	505.0930	249386.8	1010.752	515.4670
#3	210.9056	262146.4	530.2422	506.1358	251955.9	1013.572	516.4884
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	558.7216	542.5357	99526.92	13.56940	263681.5	538.8263	850.7991
SDEV	1.1941	.0885	378.90	8.42652	1090.1	1.8952	148.0819
%RSD	.2137136	.0163036	.3807031	62.09943	.4133998	.3517269	17.40503
#1	557.5122	542.5430	99092.75	22.61042	262475.7	536.6810	968.2437
#2	558.7529	542.4438	99697.21	12.16357	263972.0	539.5250	899.7026
#3	559.8997	542.6203	99790.80	5.934215	264596.9	540.2730	684.4510
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1053.562	105.0190	523.4561	1065.278	65.80132	49.64605	640.5710
SDEV	3.448	3.3155	2.0250	3.583	1.91784	.28690	5.9077
%RSD	.3272237	3.157077	.3868566	.3363517	2.914599	.5778916	.9222588
#1	1049.582	103.0001	521.1858	1061.168	66.84317	49.70214	634.4966
#2	1055.445	103.2114	524.1063	1067.744	63.58805	49.33525	646.2966
#3	1055.657	108.8455	525.0762	1066.922	66.97274	49.90077	640.9198
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	102.3371	60.08609	68.64845	646.4488	637.6336	39.18177	54.86622
SDEV	.8835	2.42816	2.17907	6.2520	6.5836	1.85637	1.35090
%RSD	.8633585	4.041140	3.174250	.9671285	1.032500	4.737828	2.462177
#1	102.9834	62.75821	68.87641	639.3132	632.0888	39.25156	54.91548
#2	101.3303	58.01463	66.36437	649.0680	644.9099	41.00226	53.49136
#3	102.6975	59.48543	70.70459	650.9652	635.9021	37.29150	56.19181
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	968.7498	1013.741	983.5696	988.3092	997.9609	2952.622
SDEV	3.9940	3.062	4.3829	4.6945	2.9187	6.997
%RSD	.4122851	.3020553	.4456083	.4750078	.2924639	.2369922
#1	964.4374	1011.273	978.8126	987.0698	994.7351	2960.266
#2	969.4902	1017.168	987.4440	984.3587	1000.419	2946.533
#3	972.3218	1012.783	984.4522	993.4991	998.7287	2951.066
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/23/11 03:02:30
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.36187	49404.85	973.5564	967.7692	48117.72	957.6402	959.7175
SDEV	.75082	1690.28	32.9917	32.4766	2431.27	32.0818	31.9089
%RSD	.7873350	3.421284	3.388786	3.355819	5.052746	3.350092	3.324820
#1	94.49767	47455.25	935.4828	930.3610	45525.03	920.7033	922.9221
#2	95.85394	50459.36	993.7156	988.7535	48481.57	978.5563	979.7723
#3	95.73400	50299.94	991.4706	984.1931	50346.55	973.6610	976.4583
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	976.6206	977.8741	24320.93	48471.44	48844.90	959.2300	50434.66
SDEV	33.4317	8.3092	826.57	1517.05	1709.10	32.3586	1519.68
%RSD	3.423197	.8497189	3.398605	3.129771	3.499037	3.373394	3.013169
#1	938.2520	968.3850	23367.99	46722.89	46879.21	921.9518	48680.16
#2	999.4878	983.8476	24843.78	49437.11	49979.70	980.0674	51285.04
#3	992.1220	981.3897	24751.03	49254.34	49675.78	975.6708	51338.79
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	969.7913	972.0362	980.6903	1040.847	965.5650	974.5521	1012.941
SDEV	31.9307	38.6694	32.6236	36.842	25.2409	29.9098	28.444
%RSD	3.292535	3.978181	3.326601	3.539573	2.614104	3.069087	2.808076
#1	933.1223	927.3847	943.0560	998.3492	936.4227	940.7450	980.1449
#2	991.4591	994.4011	1000.939	1063.757	980.5205	985.3391	1027.795
#3	984.7925	994.3229	998.0762	1060.435	979.7518	997.5721	1030.883
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	975.8704	961.5792	967.5507	1017.990	1010.417	966.3273	978.6543
SDEV	33.2118	26.0929	24.8403	26.954	29.194	31.3456	29.1980
%RSD	3.403296	2.713551	2.567336	2.647718	2.889312	3.243788	2.983482
#1	937.5210	931.4673	938.8918	986.8811	976.7784	930.7535	945.7294
#2	994.9271	975.7426	982.9019	1032.736	1025.325	978.3325	988.8330
#3	995.1631	977.5277	980.8582	1034.354	1029.146	989.8958	1001.400
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	981.0914	974.4054	993.8448	992.0551	1014.252	3062.400
SDEV	29.5828	31.4479	33.6306	38.7265	36.599	77.826
%RSD	3.015290	3.227391	3.383888	3.903660	3.608466	2.541326
#1	947.6658	938.5783	955.0212	947.6162	971.9960	3152.200
#2	1003.902	997.4454	1014.009	1018.591	1035.950	3020.467
#3	991.7065	987.1926	1012.504	1009.958	1034.809	3014.533
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/23/11 03:09:31
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.021169	9.803243	-.237861	.1443743	4.446594	.0287863	.4870432
SDEV	.603690	10.26577	.082859	.0178592	.132447	.0495719	.4606460
%RSD	59.11753	104.7181	34.83521	12.37008	2.978622	172.2067	94.58012
#1	.3791481	-1.70258	-.262646	.1311293	4.332730	-.025510	.3245270
#2	1.577335	18.02558	-.145437	.1646854	4.415105	.0716278	1.006920
#3	1.107023	13.08673	-.305499	.1373081	4.591948	.0402416	.1296829
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5986582	.1778456	10.81584	12.18530	12.87526	-.083666	101.1325
SDEV	.6242732	.2702948	10.79043	12.02248	3.69104	.099096	88.2783
%RSD	104.2787	151.9828	99.76510	98.66383	28.66769	118.4435	87.28974
#1	.2143992	-.133918	1.991501	12.43258	11.92643	-.166433	179.7995
#2	1.318969	.3464518	22.84586	24.08223	16.94809	.0261453	117.9391
#3	.2626061	.3210030	7.610150	.0410840	9.751266	-.110709	5.659077
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7705814	.5585244	.4202521	.1964274	1.068865	-2.70945	-.060432
SDEV	.6326818	4.736733	.4221277	.1097741	.945948	.97462	1.021266
%RSD	82.10447	848.0800	100.4463	55.88533	88.50022	35.97124	1689.956
#1	.5424807	1.893815	.3031572	.2141674	.4301562	-3.82422	-1.02429
#2	1.485684	-4.70253	.8885657	.2962510	2.155589	-2.28570	1.009898
#3	.2835796	4.484287	.0690333	.0788637	.6208502	-2.01843	-.166902
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.455130	-2.46107	2.827226	1.192428	-.689883	-2.67511	-2.73056
SDEV	2.053602	1.38834	2.111170	1.960760	.728334	1.02956	1.97264
%RSD	141.1284	56.41217	74.67283	164.4342	105.5736	38.48671	72.24294
#1	-.613739	-1.49985	1.389913	-.022176	-1.52840	-1.52351	-4.97665
#2	3.493115	-4.05278	5.251062	3.454460	-.214607	-2.99525	-1.93551
#3	1.486015	-1.83058	1.840704	.1449994	-.326642	-3.50656	-1.27951
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.414224	1.227172	.3556028	7.932412	.4427569	3075.977
SDEV	2.105958	.430722	1.251260	9.979536	.9466972	108.767
%RSD	508.4104	35.09878	351.8702	125.8071	213.8187	3.536010
#1	1.146247	1.365785	1.765634	-.767025	.0995686	3200.800
#2	-2.80962	1.571522	-.622381	18.82667	1.513185	3001.533
#3	.4207053	.7442091	-.076445	5.737590	-.284483	3025.600
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-05 OPERATOR:
RUN TIME: 03/23/11 03:16:31
COMMENT: SDG:1103087 CLIENTID:MW-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6743626	6.444598	303.1328	-.081268	48491.20	-.064237	7.424259
SDEV	.1863874	3.996765	7.2719	.010106	2020.84	.119713	.177743
%RSD	27.63905	62.01730	2.398900	12.43498	4.167430	186.3615	2.394087
#1	.7184217	2.479045	294.7387	-.072953	46186.91	.0548473	7.579114
#2	.4698930	6.382887	307.5153	-.092515	49961.86	-.184568	7.230180
#3	.8347731	10.47186	307.1444	-.078335	49324.85	-.062989	7.463483
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4725207	.7309253	95.90459	2458.774	21115.49	28.36024	9689.287
SDEV	.2932712	.4123657	2.44785	37.510	491.92	.65067	128.484
%RSD	62.06527	56.41695	2.552378	1.525570	2.329647	2.294290	1.326047
#1	.8107013	1.057156	94.38519	2415.529	20548.40	27.60967	9546.907
#2	.2881521	.2674340	94.60020	2478.292	21370.92	28.70639	9724.361
#3	.3187087	.8681861	98.72840	2482.501	21427.15	28.76466	9796.592
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.666171	-1.79649	.8508967	2.692955	.8069071	-1.72424	-.193015
SDEV	.322099	.55836	.1508157	.196268	.7245895	2.24069	1.262941
%RSD	8.785700	31.08061	17.72433	7.288218	89.79838	129.9524	654.3228
#1	4.031139	-1.98225	1.000665	2.557042	1.338803	-2.64532	-1.58728
#2	3.421668	-1.16893	.6990550	2.917969	1.100285	-3.35758	.8743078
#3	3.545706	-2.23829	.8529699	2.603854	-.018366	.8301967	.1339259
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.82573	-2.47061	2.439085	1.378318	-.981462	-.185524	-2.49640
SDEV	1.15899	.88633	.837091	1.004062	1.392706	4.055971	1.51103
%RSD	63.48101	35.87494	34.31987	72.84689	141.9011	2186.219	60.52850
#1	-2.25743	-2.57529	3.289027	.2847707	-2.52579	-2.96984	-2.48720
#2	-2.70691	-1.53659	2.412761	2.258642	.1791917	-2.05475	-4.01201
#3	-.512842	-3.29996	1.615467	1.591541	-.597792	4.468012	-.989987
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.190958	3.477150	-.903767	4.813806	7.638436	3076.444
SDEV	1.351335	.649471	.082254	3.048308	.322307	48.346
%RSD	61.67784	18.67825	9.101248	63.32428	4.219546	1.571496
#1	1.470208	4.220705	-.873674	5.491984	7.298168	3131.867
#2	3.749872	3.020774	-.996830	1.483523	7.678011	3054.533
#3	1.352792	3.189971	-.840797	7.465909	7.939128	3042.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103087-06 OPERATOR:
RUN TIME: 03/23/11 03:23:32
COMMENT: SDG:1103087 CLIENTID:MW-17 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0033298	110.6166	354.7895	-.077501	22156.03	.0688011	3.305054
SDEV	.2173749	2.7837	.7218	.017983	1653.97	.0444631	.020424
%RSD	6528.164	2.516526	.2034580	23.20385	7.465105	64.62565	.6179604
#1	.2509508	112.3032	354.4366	-.095350	23848.50	.0297906	3.301076
#2	-.084918	112.1429	355.6199	-.059387	20543.46	.1172132	3.327175
#3	-.156043	107.4035	354.3121	-.077764	22076.15	.0593995	3.286912
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5162482	1.200521	248.7989	5918.371	9469.953	48.18312	5131.896
SDEV	.1338844	.135287	5.2766	11.126	35.988	.12829	78.527
%RSD	25.93412	11.26900	2.120834	.1879856	.3800192	.2662653	1.530170
#1	.5438091	1.345519	254.0107	5910.194	9441.414	48.09823	5121.915
#2	.6342073	1.077681	248.9262	5931.041	9510.381	48.33071	5214.936
#3	.3707280	1.178365	243.4598	5913.879	9458.065	48.12043	5058.837
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.239370	1.599127	.9571183	8.201891	1.114327	-6.88828	-.988176
SDEV	.190658	1.817331	.3439906	.117233	.912112	2.11200	1.368113
%RSD	8.513909	113.6452	35.94024	1.429347	81.85312	30.66076	138.4483
#1	2.045311	.1967318	.9978495	8.336362	2.122552	-7.36887	-1.84300
#2	2.426434	3.652233	1.278930	8.148144	.8739603	-4.57741	-1.71128
#3	2.246365	.9484154	.5945755	8.121168	.3464708	-8.71858	.5897535
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.027604	-2.07621	2.702738	-.029423	-1.47081	-11.6553	-4.51234
SDEV	.850951	.60341	1.519605	1.196532	1.60516	9.1627	1.42284
%RSD	3082.683	29.06288	56.22467	4066.629	109.1347	78.61410	31.53218
#1	.0935964	-2.54085	4.446293	.0439097	-2.78901	-14.2943	-3.91531
#2	-.932657	-1.39424	2.001873	-1.26094	-1.94011	-1.46268	-6.13643
#3	.7562482	-2.29354	1.660047	1.128756	.3166993	-19.2088	-3.48529
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.169356	4.105250	-1.33070	12.13951	2.808802	3065.155
SDEV	1.609164	2.373892	.46096	2.63380	.495391	13.297
%RSD	950.1664	57.82575	34.64005	21.69612	17.63711	.4338220
#1	-.507732	3.046739	-1.08759	14.63179	2.356006	3068.200
#2	1.582088	2.444751	-1.86232	12.40277	3.337928	3050.600
#3	-1.58242	6.824261	-1.04219	9.383961	2.732472	3076.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032002-BLK1 OPERATOR:
RUN TIME: 03/23/11 03:30:33
COMMENT: SDG:1103082 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2338966	-11.4469	-.515961	-.124200	297.0319	-.188389	.2345221
SDEV	.5102447	2.0019	.047793	.008873	506.8735	.124995	.0235539
%RSD	218.1497	17.48826	9.262859	7.143875	170.6462	66.34911	10.04334
#1	.3914473	-11.2801	-.518659	-.121243	4.456001	-.275089	.2340305
#2	.6467848	-9.53365	-.466876	-.117183	4.320728	-.045109	.2112179
#3	-.336542	-13.5269	-.562347	-.134174	882.3190	-.244969	.2583180
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1213625	.0631303	-1.32594	5.289409	-2.47622	-.322622	170.2380
SDEV	.1875880	.3412508	6.06773	3.154206	.84104	.019073	91.2237
%RSD	154.5684	540.5499	457.6160	59.63250	33.96475	5.911785	53.58599
#1	.3373916	-.155718	1.495276	3.116436	-1.74606	-.323320	124.8620
#2	-.000356	.4563347	2.817535	8.907230	-3.39583	-.303209	275.2518
#3	.0270521	-.111226	-8.29064	3.844559	-2.28677	-.341335	110.6003
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0454292	-.355192	.0477390	.3521474	.1686965	-2.65404	-.959892
SDEV	.1154263	.913777	.1455301	.0257624	.6819989	3.08236	1.796689
%RSD	254.0791	257.2630	304.8451	7.315794	404.2756	116.1385	187.1761
#1	.1640502	.0977750	-.113565	.3631134	-.468777	-.112817	-3.01379
#2	.0387498	-1.40697	.1691934	.3706125	.8878620	-6.08280	.3204683
#3	-.066512	.2436151	.0875883	.3227163	.0870046	-1.76651	-.186354
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.647171	-3.06041	1.776896	.1949009	-1.54036	-7.04334	-.466622
SDEV	1.395339	1.10976	1.230298	1.345336	2.02241	7.12448	1.537605
%RSD	215.6061	36.26180	69.23862	690.2670	131.2950	101.1520	329.5181
#1	.0347609	-3.65753	1.119291	-1.34890	-3.84891	-2.95132	1.300387
#2	.2760623	-3.74377	3.196250	1.116587	-.080951	-15.2699	-1.50008
#3	-2.25233	-1.77994	1.015149	.8170172	-.691217	-2.90875	-1.20017
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.177241	2.882596	-1.47872	1.193671	-1.68819	3092.422
SDEV	2.319859	1.346870	.37365	4.483087	.23586	15.192
%RSD	1308.870	46.72420	25.26874	375.5714	13.97144	.4912793
#1	.4146182	2.862585	-1.80904	2.651302	-1.49571	3104.400
#2	-2.73570	4.239359	-1.07318	4.766548	-1.61755	3075.333
#3	1.789354	1.545842	-1.55394	-3.83684	-1.95130	3097.533
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032002-BS1 OPERATOR:
RUN TIME: 03/23/11 03:37:33
COMMENT: SDG:1103082 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	492.8141	2616.742	499.1703	479.1361	9919.629	491.2057	497.8103
SDEV	1.4368	25.932	4.7410	5.1072	132.099	5.3221	5.3325
%RSD	.2915403	.9909898	.9497819	1.065918	1.331691	1.083478	1.071189
#1	492.0175	2635.905	502.7643	482.5742	10004.19	494.8090	501.1422
#2	491.9522	2627.087	500.9497	481.5664	9987.292	493.7152	500.6287
#3	494.4727	2587.235	493.7971	473.2676	9767.406	485.0927	491.6600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	594.0000	2978.000	602.0000	591.0000	12216.00	592.0000	595.0000
LOW	396.0000	1986.000	402.0000	395.0000	8144.000	395.0000	397.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	496.1638	513.0049	5012.315	8945.227	5860.009	485.8942	10594.33
SDEV	5.0741	2.0692	51.532	92.845	66.235	5.1623	123.88
%RSD	1.022673	.4033400	1.028106	1.037924	1.130293	1.062429	1.169326
#1	499.6184	513.0074	5041.942	9011.117	5899.457	489.2860	10689.94
#2	498.5349	510.9345	5042.190	8985.520	5897.029	488.4434	10638.68
#3	490.3382	515.0728	4952.810	8839.042	5783.540	479.9532	10454.38
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	588.0000	6128.000	12009.00	7203.000	594.0000	12046.00
LOW	392.0000	392.0000	4086.000	8007.000	4803.000	396.0000	8031.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	498.8265	1014.203	500.6278	961.7122	990.6072	970.3347	989.8224
SDEV	5.1594	9.098	5.2683	10.2572	11.1311	7.4503	10.9715
%RSD	1.034303	.8970894	1.052330	1.066561	1.123663	.7678026	1.108435
#1	502.6268	1009.966	504.1462	968.4001	992.1416	969.6041	991.1348
#2	500.8998	1024.647	503.1663	966.8337	1000.891	978.1233	1000.079
#3	492.9530	1007.995	494.5709	949.9027	978.7885	963.2766	978.2537
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	590.0000	1232.000	601.0000	1200.000	1195.000	1206.000	1190.000
LOW	394.0000	822.0000	401.0000	800.0000	797.0000	804.0000	794.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	977.4947	986.2928	993.1006	994.3024	987.5820	960.2645	975.3583
SDEV	8.1940	12.7025	10.3754	9.9393	11.5224	12.1660	5.8664
%RSD	.8382642	1.287899	1.044749	.9996290	1.166730	1.266943	.6014628
#1	983.4656	989.0533	994.0235	994.3438	989.5290	964.0073	972.3944
#2	980.8655	997.3880	1002.984	1004.221	998.0069	970.1193	982.1153
#3	968.1530	972.4371	982.2946	984.3424	975.2101	946.6668	971.5652
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-3.89429	-.000682	-1.54363	4.238793	L-1.60271	3134.044
SDEV	.76380	3.446624	.34098	4.332785	.38082	41.382
%RSD	19.61340	505045.5	22.08950	102.2174	23.76122	1.320388
#1	-3.99947	3.327033	-1.55898	.6989169	L-1.75266	3107.600
#2	-4.60005	.2259502	-1.19523	9.070591	L-1.16973	3112.800
#3	-3.08335	-3.55503	-1.87667	2.946871	L-1.88573	3181.733
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-01 OPERATOR:
RUN TIME: 03/23/11 03:44:34
COMMENT: SDG:1103082 CLIENTID:MP-02 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7555462	291.0812	38.68778	-.043947	212671.0	-.173553	.6807285
SDEV	.4524502	7.6130	.37071	.015786	1297.3	.089421	.1421954
%RSD	59.88385	2.615414	.9582196	35.92102	.6100129	51.52374	20.88870
#1	.8906069	299.2934	39.00466	-.025723	213727.1	-.254683	.5572563
#2	.2509459	289.6914	38.77858	-.053386	211222.9	-.188302	.6487338
#3	1.125086	284.2589	38.28011	-.052733	213063.0	-.077675	.8361955
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.173998	.8864952	303.5933	3862.929	19299.34	513.9523	83744.98
SDEV	.061909	.3582403	8.5370	26.475	119.31	3.4060	562.15
%RSD	5.273312	40.41085	2.811996	.6853674	.6182336	.6627160	.6712666
#1	1.158602	.8358185	313.4504	3887.900	19401.65	516.5911	84125.46
#2	1.242151	.5562916	298.5653	3865.718	19328.09	515.1586	84010.21
#3	1.121240	1.267375	298.7643	3835.170	19168.27	510.1073	83099.29
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.628090	.6290474	3.109117	2.606710	1.271059	-3.07155	-1.16417
SDEV	.536669	3.204367	.159935	.051457	.535633	2.45587	2.07784
%RSD	32.96314	509.3999	5.144066	1.974034	42.14071	79.95547	178.4829
#1	1.395682	-3.00462	3.069936	2.663939	1.786253	-5.08126	1.072410
#2	1.246796	1.841454	2.972413	2.564257	.7170933	-3.79936	-1.53032
#3	2.241791	3.050305	3.285001	2.591936	1.309830	-.334036	-3.03460
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.977276	-.541841	2.171653	-.846553	-1.32674	-6.02197	-1.60255
SDEV	.235788	2.143881	1.395043	3.073953	1.76872	7.01983	1.81779
%RSD	24.12707	395.6661	64.23875	363.1143	133.3137	116.5703	113.4313
#1	-1.24088	-2.09269	3.718306	1.785331	.7124754	-8.25070	-3.50293
#2	-.904466	-1.43746	1.788254	-.099952	-2.24843	-11.6569	.1195128
#3	-.786481	1.904624	1.008400	-4.22504	-2.44425	1.841656	-1.42423
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.409895	3.634942	4.442316	13.39884	57.85070	3049.889
SDEV	2.594866	3.201403	.241337	4.78899	.40673	11.013
%RSD	107.6755	88.07304	5.432691	35.74184	.7030753	.3611023
#1	3.302161	.3040000	4.528135	13.87041	58.16822	3040.200
#2	-.513378	3.912030	4.169798	8.391504	57.99164	3047.600
#3	4.440903	6.688795	4.629015	17.93460	57.39225	3061.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032002-DUP1 OPERATOR:
RUN TIME: 03/23/11 03:51:34
COMMENT: SDG:1103082 CLIENTID:MP-02D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1524040	281.8210	38.43026	-.090211	214853.0	-.162817	.6447929
SDEV	.1926116	6.6198	.42880	.023838	714.0	.043974	.1850227
%RSD	126.3822	2.348937	1.115795	26.42450	.3323418	27.00801	28.69491
#1	-.038431	284.9491	38.73212	-.073240	215617.7	-.179408	.7340583
#2	.3467440	286.2972	38.61924	-.079929	214737.5	-.112962	.7682590
#3	.1488993	274.2169	37.93943	-.117464	214203.7	-.196082	.4320615
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8046200	.3499981	282.9318	3878.413	19368.26	520.0514	84389.48
SDEV	.3315172	.3773393	5.2224	29.857	150.75	4.4887	976.93
%RSD	41.20171	107.8118	1.845834	.7698260	.7783414	.8631230	1.157641
#1	.4937736	.2795947	288.8354	3904.769	19482.44	523.3896	85087.61
#2	1.153523	.7575806	281.0448	3884.483	19424.97	521.8160	84807.79
#3	.7665630	.0128190	278.9151	3845.988	19197.38	514.9485	83273.05
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.009751	-2.03090	2.969977	2.611388	.6615551	-.654599	-.276985
SDEV	.305750	.19335	.270041	.119267	.5494157	2.133948	1.114381
%RSD	30.27971	9.520481	9.092372	4.567190	83.04913	325.9932	402.3251
#1	1.206013	-2.25191	2.785238	2.571426	.3251339	-3.01896	.3979194
#2	1.165774	-1.94778	2.844800	2.745504	.3639618	1.128485	.3343631
#3	.6574671	-1.89301	3.279892	2.517233	1.295569	-.073323	-1.56324
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.05103	-.057367	1.016168	-1.15824	.1590033	-3.69264	.8581676
SDEV	1.77266	1.398737	.898716	2.76383	.8426196	4.37179	2.085275
%RSD	168.6596	2438.220	88.44167	238.6231	529.9385	118.3918	242.9915
#1	-.227636	.9774315	-.004534	-1.07788	1.130706	-8.30625	-.383284
#2	-3.08564	-1.64871	1.364298	1.564534	-.283794	-3.16024	3.265642
#3	.1601878	.4991797	1.688740	-3.96137	-.369902	.3885631	-.307855
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.297489	2.630599	4.226753	4.399246	57.93015	3063.356
SDEV	1.523899	1.925644	.752864	1.621881	.79176	29.698
%RSD	117.4498	73.20176	17.81189	36.86725	1.366758	.9694748
#1	.4198115	.4076142	5.060530	3.020461	58.75167	3040.533
#2	3.057134	3.785242	3.596754	6.186233	57.17194	3052.600
#3	.4155228	3.698939	4.022974	3.991045	57.86682	3096.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032002-MS1 OPERATOR:
RUN TIME: 03/23/11 03:58:35
COMMENT: SDG:1103082 CLIENTID:MP-02S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	50.63720	2351.290	2034.441	48.37139	214372.8	48.41819	494.6528
SDEV	.02277	4.879	5.568	.14097	3432.7	.22001	1.6635
%RSD	.0449584	.2074857	.2736941	.2914315	1.601297	.4543871	.3363009
#1	50.63750	2350.203	2037.269	48.43568	211310.6	48.46674	494.6334
#2	50.65981	2356.621	2038.027	48.46875	218083.6	48.60988	496.3260
#3	50.61429	2347.047	2028.026	48.20974	213724.2	48.17797	492.9991
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	199.7597	256.0109	1301.651	3892.389	19457.86	1006.276	84156.26
SDEV	.6563	.7505	3.956	25.723	68.95	2.933	159.97
%RSD	.3285659	.2931452	.3039544	.6608663	.3543394	.2914966	.1900845
#1	199.9616	256.5303	1302.365	3894.922	19468.25	1007.082	84162.55
#2	200.2913	255.1505	1305.202	3916.752	19521.02	1008.723	84312.98
#3	199.0261	256.3521	1297.386	3865.492	19384.31	1003.024	83993.23
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	495.1678	44.97004	505.2390	475.9273	20.54749	46.15902	101.6004
SDEV	1.1882	3.08322	1.7276	1.5706	.35176	1.90804	1.0771
%RSD	.2399662	6.856165	.3419345	.3300168	1.711913	4.133626	1.060108
#1	494.7658	44.11539	505.9833	476.5832	20.29136	48.25409	100.4024
#2	496.5048	48.39043	506.4697	477.0636	20.40255	45.70192	102.4886
#3	494.2327	42.40430	503.2640	474.1350	20.94855	44.52104	101.9103
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	39.33393	17.52445	22.05180	103.6477	100.5744	42.88663	47.78880
SDEV	1.22308	1.83241	1.40591	4.6914	1.2745	2.41244	1.74250
%RSD	3.109469	10.45629	6.375471	4.526276	1.267248	5.625162	3.646255
#1	40.73281	17.97612	21.44230	98.43123	101.3826	45.17402	49.78786
#2	38.46638	19.08879	21.05350	104.9907	101.2355	43.11980	46.98708
#3	38.80260	15.50844	23.65961	107.5211	99.10516	40.36607	46.59147
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.209665	-.941187	3.899877	8.967027	58.60104	3082.266
SDEV	1.375931	.275184	.388254	3.471443	.64010	10.770
%RSD	113.7448	29.23794	9.955532	38.71342	1.092304	.3494316
#1	2.796022	-1.23104	3.482665	5.099656	58.25362	3085.200
#2	.3404066	-.683495	3.966387	9.987753	59.33973	3070.333
#3	.4925655	-.909031	4.250580	11.81367	58.20977	3091.266
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1103082-01 OPERATOR:
RUN TIME: 03/23/11 04:05:35
COMMENT: SDG:1103082 CLIENTID:MP-02L 1:5
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4909317	53.73391	7.479183	-.110544	43387.06	-.100240	.5895440
SDEV	.5316808	1.25960	.057084	.008895	978.61	.097217	.0641064
%RSD	108.3004	2.344137	.7632389	8.046741	2.255527	96.98362	10.87390
#1	-.100079	52.31234	7.537920	-.115884	44455.85	-.197658	.6491193
#2	.6425114	54.17835	7.423909	-.115474	42534.96	-.099837	.5978053
#3	.9303623	54.71103	7.475719	-.100276	43170.37	-.003226	.5217075
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4271459	.4377498	58.81201	654.2140	3939.439	104.6535	17011.35
SDEV	.3545229	.2917511	4.72866	13.8978	19.753	.4017	95.49
%RSD	82.99807	66.64790	8.040295	2.124349	.5014063	.3838558	.5613531
#1	.3513652	.1013921	53.35216	670.2603	3957.944	104.9368	17106.65
#2	.8134317	.5896102	61.48964	646.0033	3941.735	104.8300	17011.72
#3	.1166408	.6222472	61.59424	646.3784	3918.640	104.1938	16915.67
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8133548	-.556074	.8184446	.7075144	.3807682	-4.82129	-1.56883
SDEV	.3624306	2.535081	.1344089	.0510755	.9367720	1.89370	2.46952
%RSD	44.55996	455.8893	16.42249	7.219012	246.0216	39.27780	157.4114
#1	.7219724	-3.25201	.8731822	.7427561	1.361605	-4.45432	-4.34026
#2	.5053614	-.195830	.9168479	.6489396	-.504632	-3.13793	-.764460
#3	1.212731	1.779615	.6653038	.7308475	.2853317	-6.87161	.3982160
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.02886	-1.29036	1.211059	-.030686	-2.34077	-4.01094	-5.22987
SDEV	.99276	1.43146	1.712565	1.730696	3.35075	8.40795	1.37895
%RSD	48.93171	110.9350	141.4104	5640.027	143.1470	209.6254	26.36686
#1	-2.00086	-.946861	2.510072	-.604137	-6.20955	-3.04013	-5.16439
#2	-1.05040	-.061900	-.729688	-1.40187	-.450252	3.869463	-6.64040
#3	-3.03532	-2.86232	1.852794	1.913952	-.362519	-12.8622	-3.88483
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.590617	2.834054	-.637803	6.618569	10.62319	3030.222
SDEV	2.485052	1.233035	.254793	2.741281	.35306	12.232
%RSD	420.7553	43.50781	39.94856	41.41804	3.323460	.4036679
#1	2.146710	4.231064	-.354131	3.492780	10.38192	3018.533
#2	-2.70478	1.897544	-.712057	7.749369	10.45923	3029.200
#3	-1.21378	2.373552	-.847220	8.613558	11.02841	3042.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032002-PS1 OPERATOR:
RUN TIME: 03/23/11 04:12:36
COMMENT: SDG:1103082 CLIENTID:MP-02A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	21.33030	302.8835	39.28751	10.18597	216900.8	10.26305	105.8260
SDEV	.15688	3.4407	.19804	.01455	1447.8	.04057	.1890
%RSD	.7354704	1.135984	.5040720	.1428669	.6675054	.3952721	.1786237
#1	21.26863	300.0352	39.22921	10.18790	217197.8	10.22608	105.6182
#2	21.50864	301.9089	39.12516	10.17055	215327.4	10.25663	105.8721
#3	21.21363	306.7064	39.50815	10.19946	218177.0	10.30645	105.9877
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.38008	54.46355	307.5797	3923.965	19582.41	553.4169	85042.50
SDEV	.52222	.45644	11.1342	20.965	32.93	1.0073	319.05
%RSD	2.333410	.8380561	3.619933	.5342861	.1681450	.1820206	.3751630
#1	21.86750	53.99611	295.4153	3946.878	19569.94	553.2202	85270.23
#2	22.91143	54.90812	310.0575	3905.743	19557.53	552.5224	84677.84
#3	22.36131	54.48643	317.2661	3919.274	19619.75	554.5081	85179.43
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	84.99149	52.95771	110.3540	118.1207	21.59793	68.90559	131.2220
SDEV	.22991	1.79198	.0974	.3143	.87878	2.55244	1.9318
%RSD	.2705115	3.383797	.0882971	.2660863	4.068832	3.704252	1.472128
#1	85.25577	54.56591	110.4101	117.8357	21.71586	67.36158	131.5300
#2	84.83748	53.28120	110.2415	118.0685	22.41179	67.50343	129.1547
#3	84.88123	51.02601	110.4104	118.4578	20.66613	71.85175	132.9812
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	20.43108	19.19737	22.79134	134.8587	129.4023	64.30701	71.19738
SDEV	1.19478	1.65017	1.51047	2.3808	1.7213	4.16015	2.90731
%RSD	5.847850	8.595813	6.627367	1.765432	1.330165	6.469202	4.083445
#1	19.91330	21.09993	22.01829	134.9179	129.8345	65.71478	68.17970
#2	21.79741	18.15517	24.53186	132.4489	127.5061	59.62563	71.43238
#3	19.58252	18.33702	21.82388	137.2094	130.8662	67.58064	73.98005
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.517687	4.194999	4.153355	7.995154	58.46127	3011.555
SDEV	1.828747	1.330019	.868776	6.115422	.73653	7.259
%RSD	51.98720	31.70487	20.91746	76.48910	1.259856	.2410420
#1	5.621974	4.910935	4.176904	1.119074	57.98227	3007.133
#2	2.618178	5.013691	5.010117	12.82532	58.09216	3019.933
#3	2.312908	2.660372	3.273043	10.04106	59.30936	3007.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-02 OPERATOR:
RUN TIME: 03/23/11 04:19:37
COMMENT: SDG:1103082 CLIENTID:RBGW-031711 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2161037	-2.51769	-.370756	-.089257	3.917735	-.157949	.3429783
SDEV	.6947459	.44255	.057460	.025422	.170155	.081746	.2868993
%RSD	321.4873	17.57764	15.49808	28.48132	4.343188	51.75445	83.64941
#1	-.571209	-2.71503	-.435080	-.110685	3.721508	-.250958	.0274946
#2	.4764339	-2.82724	-.324505	-.061168	4.007253	-.125385	.5882631
#3	.7430862	-2.01080	-.352684	-.095919	4.024443	-.097504	.4131771
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1402921	.3784649	16.17880	12.58864	4.314765	.0220080	483.0268
SDEV	.3992906	.4590969	4.80912	4.11401	1.830536	.0654270	81.3808
%RSD	284.6138	121.3050	29.72481	32.68032	42.42494	297.2874	16.84810
#1	-.284220	-.110370	10.88619	10.62653	2.227081	-.046241	567.7867
#2	.1967439	.4452582	17.36948	17.31637	5.645043	.0280751	475.7848
#3	.5083525	.8005065	20.28073	9.823007	5.072171	.0841902	405.5091
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4221958	-1.22956	.2026534	4.226620	.5286856	-4.11562	-.107522
SDEV	.2169292	1.41538	.3925908	.054299	.3844626	2.33482	2.112974
%RSD	51.38117	115.1124	193.7253	1.284695	72.72046	56.73057	1965.154
#1	.2973650	-2.71283	-.181502	4.254129	.4777693	-5.02397	.1872600
#2	.2965389	-1.08226	.6031679	4.164072	.9360694	-1.46314	1.842583
#3	.6726836	.1064050	.1862945	4.261661	.1722182	-5.85975	-2.35241
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.37391	-.558611	1.067318	.7976372	-.563346	-4.23540	-4.05974
SDEV	1.52010	1.379277	.557750	2.237316	2.794185	1.13175	3.55455
%RSD	110.6405	246.9117	52.25718	280.4930	495.9983	26.72124	87.55598
#1	-2.87140	-1.90901	1.664962	3.184847	-1.31321	-5.45874	-4.81082
#2	.1678400	.8478321	.9763462	.4593142	2.529258	-4.02176	-.189676
#3	-1.41818	-.614653	.5606458	-1.25125	-2.90609	-3.22569	-7.17873
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.881355	2.856193	-.819273	4.642655	-.891984	3102.200
SDEV	3.292374	1.649762	.485123	7.152376	.642666	3.274
%RSD	373.5583	57.76086	59.21392	154.0579	72.04901	.1055408
#1	2.014036	4.501939	-1.32604	-3.41668	-1.42761	3105.000
#2	-4.46265	1.202445	-.772614	7.109686	-1.06898	3103.000
#3	-.195447	2.864196	-.359165	10.23496	-.179369	3098.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV2 OPERATOR:
RUN TIME: 03/23/11 04:26:38
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.76047	51314.43	1009.247	1002.935	50767.66	990.3084	994.0843
SDEV	.20933	1006.28	19.591	19.741	1360.47	20.9197	21.0887
%RSD	.2185956	1.961000	1.941153	1.968309	2.679805	2.112439	2.121423
#1	95.61465	52447.84	1031.297	1025.256	52327.08	1014.116	1017.851
#2	95.66644	50969.38	1002.599	995.7772	50152.47	981.9413	986.7930
#3	96.00033	50526.07	993.8453	987.7718	49823.44	974.8673	977.6088
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1010.623	982.2253	25072.53	50215.20	50365.63	993.7823	52588.55
SDEV	20.731	1.6304	505.00	900.70	1084.42	20.4902	963.33
%RSD	2.051309	.1659905	2.014162	1.793689	2.153094	2.061842	1.831831
#1	1033.845	983.7723	25642.55	51230.65	51587.15	1016.949	53690.64
#2	1004.044	982.3810	24893.98	49902.18	49993.38	986.3596	52168.10
#3	993.9804	980.5226	24681.06	49512.77	49516.37	978.0380	51906.91
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1002.077	1007.005	1015.565	1079.551	982.1171	993.5691	1036.166
SDEV	21.091	16.732	20.642	22.505	7.3131	11.8892	4.498
%RSD	2.104759	1.661583	2.032528	2.084632	.7446289	1.196617	.4340607
#1	1026.055	1026.184	1038.858	1105.009	976.9722	980.2790	1039.478
#2	993.7769	999.4362	1008.295	1071.339	990.4887	1003.195	1037.974
#3	986.3979	995.3948	999.5422	1062.306	978.8906	997.2335	1031.046
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1009.003	987.4429	979.4541	1030.490	1038.996	993.0030	993.8476
SDEV	20.198	15.3299	14.6210	22.382	15.558	18.4193	26.9873
%RSD	2.001814	1.552487	1.492771	2.171957	1.497405	1.854910	2.715437
#1	1032.197	1003.419	963.7643	1005.139	1056.619	1014.038	963.4204
#2	999.5220	986.0557	992.6977	1047.518	1033.205	979.7645	1014.888
#3	995.2891	972.8537	981.9004	1038.814	1027.164	985.2060	1003.234
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1008.945	1005.686	1027.130	1029.404	1047.682	2958.356
SDEV	16.252	20.208	17.617	18.691	19.756	48.645
%RSD	1.610831	2.009406	1.715139	1.815702	1.885684	1.644326
#1	1026.664	1027.627	1046.383	1050.765	1069.856	2903.267
#2	1005.441	1001.597	1023.189	1021.393	1041.237	2976.400
#3	994.7307	987.8355	1011.817	1016.054	1031.954	2995.400
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB2 OPERATOR:
RUN TIME: 03/23/11 04:33:39
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3824125	-1.11042	-.440464	-.062902	4.325287	-.055615	.4487788
SDEV	.5102561	5.38032	.020075	.023314	.199899	.043882	.0243550
%RSD	133.4308	484.5297	4.557618	37.06339	4.621624	78.90434	5.426941
#1	-.000375	-6.71595	-.420046	-.089585	4.112495	-.068256	.4543072
#2	.9617065	4.012124	-.441170	-.052643	4.509136	-.006799	.4698944
#3	.1859056	-.627441	-.460177	-.046477	4.354232	-.091789	.4221349
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2635951	-.040453	-3.40054	9.519206	-.747338	-.306502	191.9990
SDEV	.3449771	.371275	8.50675	2.700400	3.368430	.072925	86.9462
%RSD	130.8739	917.7995	250.1584	28.36791	450.7236	23.79266	45.28470
#1	-.028012	-.378743	-8.31227	10.69609	-4.43038	-.338883	279.5208
#2	.6444159	.3567603	6.422203	11.43144	2.177104	-.222994	105.6402
#3	.1743814	-.099375	-8.31156	6.430091	.0112618	-.357629	190.8359
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2535356	-1.05457	-.075850	.0649336	.3885681	-1.44774	-1.33564
SDEV	.3737853	2.88825	.147660	.0259180	.6524443	3.02734	1.43454
%RSD	147.4291	273.8803	194.6739	39.91460	167.9099	209.1080	107.4045
#1	-.177854	2.199727	-.107696	.0786007	.3432995	1.483745	-2.79850
#2	.4811649	-3.31351	-.204988	.0811575	1.062468	-4.56260	.0687940
#3	.4572963	-2.04992	.0851347	.0350425	-.240063	-1.26437	-1.27722
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.068194	-.931849	1.043766	-.874461	-1.56991	-3.85233	-.251272
SDEV	1.817506	1.138459	1.456519	2.145479	1.22610	5.02687	2.557733
%RSD	2665.217	122.1721	139.5446	245.3488	78.09969	130.4891	1017.913
#1	-1.95645	-.014503	.5179284	-2.46506	-2.96898	-.922239	2.680929
#2	1.669156	-2.20596	2.690184	1.565702	-.682588	-9.65677	-2.02339
#3	.0827107	-.575079	-.076814	-1.72402	-1.05816	-.977979	-1.41135
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.6188976	1.793678	-.445797	2.632822	.5516989	3028.044
SDEV	3.218203	1.963500	.585525	6.835712	.2080350	18.723
%RSD	519.9897	109.4678	131.3435	259.6344	37.70807	.6183276
#1	4.232373	.6264747	.2213482	-3.03221	.5816353	3040.000
#2	-1.93879	.6939622	-.874384	10.22533	.7431440	3006.467
#3	-.436889	4.060598	-.684354	.7053497	.3303175	3037.666
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-03 OPERATOR:
RUN TIME: 03/23/11 04:40:40
COMMENT: SDG:1103082 CLIENTID:MP-03 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4425010	247.1488	173.3201	-.090571	356883.5	-.193140	.4945294
SDEV	.4752556	6.9389	3.5269	.042076	7079.9	.065910	.1871830
%RSD	107.4022	2.807592	2.034914	46.45663	1.983816	34.12559	37.85073
#1	.9911702	246.5608	172.0251	-.046463	352628.7	-.118257	.7104703
#2	.1776275	240.5226	170.6237	-.130268	352965.5	-.242354	.3785212
#3	.1587053	254.3630	177.3114	-.094981	365056.4	-.218810	.3945966
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9052415	1.603768	184.4461	16113.87	27141.52	807.0938	172172.7
SDEV	.3715772	.290162	3.8972	317.39	534.94	16.1976	3157.0
%RSD	41.04730	18.09249	2.112908	1.969656	1.970922	2.006904	1.833641
#1	1.289335	1.761244	188.9322	16011.33	26932.47	800.6254	170586.0
#2	.8787962	1.781144	181.8963	15860.43	26742.67	795.1299	170123.8
#3	.5475934	1.268915	182.5099	16469.85	27749.41	825.5261	175808.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.706336	-2.52328	5.998710	12.82690	.4931163	-1.90563	-1.16616
SDEV	.086517	4.92719	.350046	.21642	.4277442	1.70004	1.38549
%RSD	5.070346	195.2696	5.835353	1.687215	86.74307	89.21121	118.8073
#1	1.722514	-7.93337	6.288011	12.79739	.5539142	-2.23869	-1.75467
#2	1.612872	-1.34317	5.609599	12.62676	.8872086	-.063715	.4164306
#3	1.783623	1.706704	6.098519	13.05657	.0382261	-3.41450	-2.16025
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.484119	-2.30839	1.887181	.8853302	-2.19445	-2.87228	-1.42712
SDEV	1.105163	2.90451	1.793708	4.829904	1.08081	2.53641	2.03938
%RSD	31.72001	125.8239	95.04696	545.5483	49.25170	88.30641	142.9022
#1	3.426763	.6166827	.5180237	-3.26794	-1.00322	-5.46161	-.633688
#2	4.616842	-5.19190	3.917658	6.185432	-2.46779	-.392333	.0963076
#3	2.408750	-2.34997	1.225860	-.261505	-3.11235	-2.76290	-3.74397
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.077847	1.900876	8.238640	1.696886	69.49484	2990.444
SDEV	2.311001	2.596329	.151518	4.836377	.85183	45.608
%RSD	111.2209	136.5859	1.839111	285.0148	1.225752	1.525121
#1	-.521719	4.864361	8.245218	7.134678	69.78340	3014.133
#2	2.855695	.8118684	8.083941	.0795140	68.53621	3019.333
#3	3.899565	.0263978	8.386762	-2.12353	70.16492	2937.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-04 OPERATOR:
RUN TIME: 03/23/11 04:47:41
COMMENT: SDG:1103082 CLIENTID:IP-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1818704	987.8514	204.1823	-.061975	282604.7	-.223353	1.085051
SDEV	.0466611	68.6238	12.8207	.005221	17390.4	.199382	.094484
%RSD	25.65623	6.946772	6.279068	8.424174	6.153606	89.26785	8.707835
#1	.1667175	951.7029	197.1753	-.065563	273707.0	-.063454	1.102322
#2	.1446691	1066.993	218.9795	-.064377	302643.5	-.446751	.9831224
#3	.2342247	944.8587	196.3920	-.055985	271463.4	-.159853	1.169709
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.758551	6.169936	971.3007	40961.96	6663.876	104.6433	H447722.5
SDEV	.138994	.314399	58.6176	2537.12	404.178	6.4291	21361.6
%RSD	2.920928	5.095656	6.034963	6.193840	6.065205	6.143810	4.771173
#1	4.683709	6.532016	937.7306	39537.47	6440.279	101.1582	H436919.7
#2	4.918929	5.966089	1038.986	43891.20	7130.446	112.0624	H472327.9
#3	4.673016	6.011704	937.1856	39457.20	6420.902	100.7093	H433919.9
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.173547	-2.35365	18.68502	7.444285	1.264216	-.200896	-.832427
SDEV	.328544	3.82202	1.02256	.502033	.499851	1.048710	1.396445
%RSD	7.872053	162.3869	5.472599	6.743868	39.53837	522.0171	167.7558
#1	3.817420	.6636775	18.28146	7.295665	.9167652	-.906850	-1.53301
#2	4.238378	-1.07311	19.84778	8.003848	1.837077	1.004146	.7756191
#3	4.464842	-6.65151	17.92583	7.033341	1.038807	-.699983	-1.73989
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.104549	-1.55825	2.668629	2.658033	-2.57922	-1.84113	.6138100
SDEV	2.152726	1.20808	.557163	2.067002	1.30369	3.97955	3.203289
%RSD	194.8964	77.52805	20.87824	77.76435	50.54563	216.1468	521.8697
#1	2.592837	-1.31286	2.025293	.6888322	-2.64637	2.750370	-2.73682
#2	-1.36383	-.491705	2.994762	4.810616	-1.24326	-4.29627	3.645968
#3	2.084638	-2.87019	2.985830	2.474651	-3.84804	-3.97750	.9322799
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.979639	2.345817	7.634040	26.17516	38.46500	2920.933
SDEV	1.325948	3.211244	.408752	2.30014	2.58443	132.732
%RSD	66.97929	136.8923	5.354335	8.787493	6.718919	4.544157
#1	.9828884	5.959847	7.162096	26.33520	36.77240	2975.200
#2	1.471533	1.257254	7.875531	23.79919	41.43982	2769.666
#3	3.484496	-.179651	7.864491	28.39111	37.18277	3017.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-05 OPERATOR:
RUN TIME: 03/23/11 04:54:42
COMMENT: SDG:1103082 CLIENTID:FDIP-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0994262	857.1890	199.6444	-.033602	271699.7	-.200547	.9314622
SDEV	.1644072	13.4495	2.5239	.014369	5499.4	.111185	.2284293
%RSD	165.3560	1.569029	1.264203	42.76319	2.024056	55.44104	24.52373
#1	-.090384	858.0016	199.7666	-.018233	271144.3	-.099647	1.152561
#2	.1972892	843.3516	197.0616	-.035872	266499.1	-.182248	.6963478
#3	.1913735	870.2139	202.1050	-.046702	277455.6	-.319747	.9454777
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.307432	6.622341	777.1943	43983.79	5021.225	74.81591	H427400.0
SDEV	.440842	.255288	10.6580	539.43	70.197	.98057	4431.4
%RSD	10.23446	3.854955	1.371338	1.226429	1.397999	1.310637	1.036827
#1	3.809410	6.366665	770.4031	44039.64	5014.502	74.75058	H427377.8
#2	4.465214	6.623117	771.7016	43418.61	4954.631	73.86964	H422979.8
#3	4.647672	6.877240	789.4782	44493.13	5094.541	75.82751	H431842.5
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.017857	-2.53703	19.35774	6.492113	2.389958	-1.64017	-.411021
SDEV	.779020	2.62053	.16744	.147225	1.372618	1.18744	.976145
%RSD	19.38894	103.2913	.8649620	2.267749	57.43270	72.39740	237.4929
#1	4.914307	-2.52308	19.46756	6.467462	2.131707	-2.97437	.5278955
#2	3.634087	-5.16450	19.16502	6.358770	1.164810	-1.24684	-1.42056
#3	3.505176	.0765024	19.44063	6.650108	3.873358	-.699302	-.340399
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3232418	-.932512	4.044163	.8683302	-1.05377	-3.56330	-.684083
SDEV	2.029142	1.542372	1.974909	1.388305	.77152	2.56753	2.070681
%RSD	627.7473	165.3997	48.83356	159.8821	73.21496	72.05483	302.6943
#1	-1.70240	.6628100	2.860498	2.164962	-.293462	-3.21608	-2.85775
#2	.3162581	-2.41583	2.947959	-.596349	-1.83603	-6.28678	1.265362
#3	2.355866	-1.04452	6.324032	1.036377	-1.03182	-1.18705	-.459862
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.418690	.9374502	8.339509	21.68752	33.01798	3022.511
SDEV	1.364753	2.841586	.219082	1.45501	.59515	32.066
%RSD	39.92033	303.1186	2.627032	6.708968	1.802514	1.060890
#1	3.728689	3.643232	8.138710	20.23524	32.40282	3010.733
#2	4.601778	-2.02282	8.573162	21.68206	33.06026	3058.800
#3	1.925605	1.191939	8.306654	23.14524	33.59087	2998.000
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-06 OPERATOR:
RUN TIME: 03/23/11 05:01:43
COMMENT: SDG:1103082 CLIENTID:MP-01 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4937966	300.0297	173.2734	-.045137	313329.5	-.062618	.7222317
SDEV	.3708042	5.4436	2.1074	.031504	4291.9	.092646	.2395599
%RSD	75.09251	1.814338	1.216214	69.79607	1.369757	147.9552	33.16940
#1	.2698043	305.4487	174.1770	-.014731	312981.1	-.169505	.9883091
#2	.9218091	294.5619	170.8649	-.043045	309222.4	-.012991	.5236867
#3	.2897762	300.0785	174.7782	-.077634	317784.9	-.005357	.6546994
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.553979	3.560394	205.9537	29135.03	13693.51	194.6334	197878.4
SDEV	.215584	.201055	4.1191	330.96	179.72	2.4445	1992.2
%RSD	13.87302	5.647001	2.000011	1.135964	1.312420	1.255956	1.006784
#1	1.568451	3.537949	210.6741	29268.40	13769.99	195.6230	198494.0
#2	1.761962	3.771730	203.0881	28758.19	13488.21	191.8492	195651.0
#3	1.331524	3.371502	204.0990	29378.49	13822.34	196.4279	199490.1
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.430928	-1.94837	6.252539	2.667320	2.481695	-2.95252	.0351139
SDEV	.347443	.71629	.154443	.102610	1.426792	1.43132	.6217952
%RSD	10.12680	36.76336	2.470085	3.846949	57.49263	48.47785	1770.795
#1	3.047886	-1.12277	6.417069	2.709141	1.596263	-4.01628	.5533784
#2	3.725774	-2.40418	6.110691	2.550403	4.127633	-1.32520	-.654345
#3	3.519122	-2.31816	6.229857	2.742414	1.721190	-3.51608	.2063079
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0978015	1.227820	3.103540	1.706299	-.803211	-1.35137	-3.75588
SDEV	.7820803	1.539298	1.378573	2.385047	.259366	5.24133	4.69975
%RSD	799.6606	125.3684	44.41937	139.7789	32.29108	387.8522	125.1306
#1	-.414510	.1082113	2.334654	3.656702	-.999974	.8491952	-6.44938
#2	-.290094	2.983157	4.695075	-.952765	-.509295	-7.33425	1.670879
#3	.9980088	.5920924	2.280889	2.414960	-.900365	2.430931	-6.48913
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.432051	2.834480	9.716525	6.985093	40.23069	3059.689
SDEV	2.727533	1.350802	.416946	2.413444	.77762	32.145
%RSD	112.1495	47.65607	4.291097	34.55135	1.932907	1.050613
#1	4.869676	3.971985	9.357321	7.128482	40.27176	3035.933
#2	2.940353	1.341483	9.618507	9.323646	39.43334	3096.266
#3	-.513876	3.189971	10.17375	4.503151	40.98696	3046.867
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-07 OPERATOR:
RUN TIME: 03/23/11 05:08:44
COMMENT: SDG:1103082 CLIENTID:MW-23R 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3442740	548.6154	44.39568	-.051315	24392.53	.0446780	1.506705
SDEV	.1214439	3.6567	.30605	.026506	483.06	.0239640	.177272
%RSD	35.27537	.6665408	.6893801	51.65320	1.980349	53.63726	11.76554
#1	.3798949	548.5799	44.35787	-.020839	23940.71	.0222513	1.303069
#2	.4439242	552.2897	44.71888	-.064110	24901.70	.0418535	1.590507
#3	.2090030	544.9764	44.11029	-.068996	24335.18	.0699291	1.626539
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.535488	5.220227	9065.583	2473.253	2237.271	121.3800	10599.01
SDEV	.130505	.315888	63.785	33.249	17.283	.7892	190.13
%RSD	8.499237	6.051229	.7035916	1.344342	.7724851	.6501921	1.793806
#1	1.668810	5.450129	9092.011	2441.173	2245.424	121.6235	10445.51
#2	1.529659	4.860034	9111.906	2507.559	2248.968	122.0188	10811.69
#3	1.407996	5.350520	8992.832	2471.029	2217.419	120.4977	10539.84
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.110569	-.129253	6.745472	31.52058	3.134098	-2.65249	.0173418
SDEV	.074326	2.307807	.310901	.20442	.066959	3.58971	1.835557
%RSD	3.521628	1785.501	4.609035	.6485284	2.136455	135.3334	10584.55
#1	2.067651	-.861018	6.445743	31.50213	3.211070	.8676298	-1.19464
#2	2.196394	2.455721	7.066454	31.73360	3.089300	-2.51715	2.129186
#3	2.067663	-1.98246	6.724219	31.32601	3.101922	-6.30795	-.882517
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.716773	1.114268	4.137550	1.292862	-.623392	-6.64728	-.662046
SDEV	1.258928	2.551546	1.249526	3.022375	1.280696	5.68978	2.583276
%RSD	175.6383	228.9885	30.19965	233.7740	205.4399	85.59570	390.1957
#1	-.007822	1.665860	3.977539	-1.11214	-1.23982	-1.51832	2.054850
#2	-2.17031	-1.66796	5.459374	4.685506	.8489496	-5.65591	-.954113
#3	.0278152	3.344904	2.975738	.3052167	-1.47931	-12.7676	-3.08688
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.598690	.4996928	.2437000	17.79286	37.49355	3075.644
SDEV	1.613262	.5763149	.3035458	.61088	.63309	38.074
%RSD	269.4651	115.3338	124.5572	3.433276	1.688544	1.237909
#1	1.114727	.2641386	-.106623	17.61976	36.78246	3057.467
#2	-.822340	1.156473	.4090929	18.47161	37.70219	3050.066
#3	-2.08846	.0784666	.4286300	17.28722	37.99599	3119.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-10 OPERATOR:
RUN TIME: 03/23/11 05:15:45
COMMENT: SDG:1103082 CLIENTID:MW-13D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4458359	774.4207	21.32366	-.052504	6005.993	-.111298	1.312002
SDEV	.1688757	6.7665	.20496	.015874	996.640	.086581	.288147
%RSD	37.87844	.8737526	.9611878	30.23381	16.59409	77.79193	21.96235
#1	.6183749	782.1547	21.55320	-.034186	6627.608	-.038973	1.506619
#2	.4382539	769.5920	21.15895	-.061095	4856.444	-.207236	.9809813
#3	.2808790	771.5154	21.25884	-.062230	6533.926	-.087685	1.448407
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	4.884734	7.602163	1409.846	703.9118	1481.225	55.82619	68072.31
SDEV	.269481	.157569	7.533	21.6035	14.158	.27349	329.48
%RSD	5.516796	2.072681	.5342794	3.069063	.9558445	.4898909	.4840172
#1	5.171589	7.783157	1417.727	726.2676	1497.213	56.12682	68375.20
#2	4.636877	7.495585	1409.094	683.1487	1470.274	55.59214	67721.48
#3	4.845737	7.527745	1402.718	702.3190	1476.187	55.75962	68120.25
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	6.395688	-.295299	3.664024	55.27251	2.699557	-2.78463	.2165950
SDEV	.078525	2.686804	.199303	.45509	.291640	1.17204	.6532324
%RSD	1.227785	909.8596	5.439459	.8233564	10.80324	42.08974	301.5917
#1	6.307710	1.807495	3.858986	55.72946	2.857751	-3.92368	-.227514
#2	6.420672	-3.32220	3.460646	54.81930	2.877918	-1.58217	.9666532
#3	6.458681	.6288068	3.672440	55.26876	2.363002	-2.84804	-.089354
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.970079	-.348159	4.215280	2.265552	-.810249	-2.84293	-2.75942
SDEV	1.941730	.853424	.818380	1.509989	.232798	2.45681	.54227
%RSD	200.1621	245.1246	19.41461	66.64993	28.73169	86.41819	19.65159
#1	-3.21101	-.192001	4.374430	1.146581	-.917472	-5.34010	-3.22047
#2	.2135983	-1.26888	4.942395	3.983050	-.543160	-.428577	-2.16197
#3	.0871726	.4164024	3.329014	1.667025	-.970113	-2.76011	-2.89582
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.209819	1.569162	.5015880	25.34512	9.508117	3119.666
SDEV	3.339741	1.375955	.0501954	2.39680	.822037	27.491
%RSD	104.0476	87.68725	10.00730	9.456646	8.645633	.8812099
#1	6.159502	1.920779	.5275788	28.10852	10.43725	3088.266
#2	-.416393	.0515164	.5334584	24.09524	8.875376	3139.400
#3	3.886348	2.735190	.4437268	23.83160	9.211728	3131.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

ANALYSIS REPORT 03/23/11 05:29:43 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-11 OPERATOR:
RUN TIME: 03/23/11 05:22:46
COMMENT: SDG:1103082 CLIENTID:MW-13R 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7704057	14046.59	357.1532	1.273088	142413.8	3.415623	9.244538
SDEV	.6874971	469.71	11.6839	.085047	6128.8	.220165	.674188
%RSD	89.23832	3.343924	3.271401	6.680351	4.303528	6.445812	7.292828
#1	1.324350	14585.26	370.5889	1.362954	149449.3	3.650553	9.926833
#2	.0009791	13722.47	349.3747	1.193862	138233.2	3.214025	8.578760
#3	.9858873	13832.05	351.4959	1.262449	139559.0	3.382290	9.228023
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	52.13234	98.54067	72006.55	4990.081	15962.79	1312.486	H366280.9
SDEV	1.87009	.47286	2467.70	179.975	566.24	44.590	9193.5
%RSD	3.587190	.4798604	3.427049	3.606657	3.547250	3.397405	2.509954
#1	54.16481	99.02625	74831.84	5197.061	16611.48	1363.565	H376835.7
#2	50.48444	98.08166	70273.20	4870.455	15567.55	1281.337	H360019.6
#3	51.74776	98.51411	70914.63	4902.727	15709.34	1292.554	H361987.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC HIGH
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.71724	-1.19213	33.06800	737.3876	65.83346	-1.83224	4.004454
SDEV	1.79984	2.46369	1.58663	25.6404	2.08593	1.15451	.597694
%RSD	4.213376	206.6636	4.798084	3.477198	3.168501	63.01063	14.92574
#1	44.62953	.3661795	34.87375	766.8410	68.07908	-.634808	3.844245
#2	41.05627	-4.03248	31.89708	720.0527	63.95632	-1.92351	3.503191
#3	42.46593	.0899186	32.43317	725.2689	65.46498	-2.93840	4.665926
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.561141	65.07590	66.20667	5.689323	3.159290	-8.41521	1.450317
SDEV	.417215	3.62083	1.52659	1.681575	.334160	2.17741	2.794674
%RSD	11.71575	5.564009	2.305794	29.55669	10.57707	25.87476	192.6940
#1	3.197188	69.25251	67.48807	4.566770	3.479391	-10.8836	4.477765
#2	4.016470	62.82220	64.51765	4.878520	2.812652	-7.59509	.9041271
#3	3.469765	63.15299	66.61431	7.622678	3.185827	-6.76694	-1.03094
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	8.304920	4.358345	4.667765	306.8379	43.92218	3053.578
SDEV	1.663425	2.091714	.765373	15.9686	1.78817	91.228
%RSD	20.02939	47.99332	16.39699	5.204232	4.071227	2.987563
#1	9.744515	6.674640	5.480394	323.7132	45.96305	2949.533
#2	6.483915	2.607450	3.960583	291.9650	42.63025	3119.867
#3	8.686329	3.792943	4.562318	304.8357	43.17326	3091.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI1 OPERATOR:
RUN TIME: 03/23/11 05:30:17
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.70526	-8.30883	Q-.539497	4.853413	1.662864	5.056447	52.85484
SDEV	.60322	2.13141	.088532	.020795	.355068	.106876	.22321
%RSD	5.634803	25.65231	16.41006	.4284692	21.35279	2.113649	.4223022
#1	10.47392	-9.98143	Q-.510643	4.876573	1.271135	5.101345	52.77268
#2	11.38990	-5.90897	Q-.468992	4.836341	1.963535	5.133549	53.10749
#3	10.25194	-9.03609	Q-.638856	4.847324	1.753922	4.934446	52.68436
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.53860	26.26579	-1.24972	8.567415	-2.94703	14.96276	142.5949
SDEV	.35204	.47285	9.48520	12.48095	.31702	.07916	99.7253
%RSD	3.340437	1.800264	758.9872	145.6793	10.75714	.5290269	69.93614
#1	10.42998	25.79141	-9.31542	22.38973	-2.90382	14.92693	257.7134
#2	10.93214	26.73710	9.200094	5.189230	-2.65383	15.05350	87.47241
#3	10.25367	26.26886	-3.63383	-1.87672	-3.28343	14.90786	82.59881
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.41296	25.59320	52.54360	58.37414	10.50829	34.15464	63.44645
SDEV	.13629	1.48303	.52918	.11623	1.13045	2.44413	1.19153
%RSD	.3213439	5.794616	1.007125	.1991141	10.75767	7.156081	1.878011
#1	42.26040	25.69108	52.57296	58.49099	9.944680	33.09753	63.64449
#2	42.52269	24.06366	53.05748	58.25853	11.80974	32.41700	64.52655
#3	42.45580	27.02486	52.00035	58.37291	9.770454	36.94940	62.16830
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.899194	8.424078	11.54293	65.55446	62.39010	35.57083	33.44368
SDEV	2.075488	.697167	1.98454	4.49248	.98661	1.75938	2.92598
%RSD	23.32221	8.275884	17.19271	6.853053	1.581358	4.946129	8.748974
#1	Q6.704200	8.267761	10.77599	64.04092	63.44264	33.99524	32.64542
#2	9.163533	7.818340	13.79650	70.60824	61.48631	35.24798	30.99967
#3	10.82985	9.186134	10.05631	62.01422	62.24133	37.46928	36.68595
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	53.74760	56.54476	51.63045	56.75124	51.80589	3095.089
SDEV	5.81570	4.79276	.16602	8.88609	.95018	19.854
%RSD	10.82039	8.476043	.3215563	15.65796	1.834111	.6414674
#1	60.15699	61.64682	51.65066	51.52628	51.36785	3096.133
#2	48.80735	55.85040	51.78545	67.01143	52.89608	3074.733
#3	52.27845	52.13705	51.45525	51.71603	51.15375	3114.400
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA1 OPERATOR:
RUN TIME: 03/23/11 05:37:18
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4234031	266416.1	2.412240	.5764046	251548.0	2.926740	5.587966
SDEV	.2717032	1202.0	.067603	.0094429	3617.4	.072210	.148882
%RSD	64.17129	.4511844	2.802506	1.638248	1.438060	2.467246	2.664328
#1	.6890488	267680.5	2.431972	.5769805	255721.7	2.981934	5.659537
#2	.4351380	265288.0	2.467782	.5666868	249315.8	2.953267	5.416814
#3	.1460226	266279.8	2.336966	.5855463	249606.6	2.845018	5.687545
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	46.11259	24.18178	100601.5	7.624544	266541.0	24.98447	762.0022
SDEV	.37414	.06161	470.4	1.368126	1384.5	.10693	77.0398
%RSD	.8113601	.2547667	.4675691	17.94372	.5194361	.4279736	10.11018
#1	46.40796	24.19309	101065.1	6.204664	267875.4	25.06429	831.5359
#2	45.69187	24.23695	100124.7	8.934256	265111.3	24.86298	775.2866
#3	46.23793	24.11530	100614.7	7.734712	266636.3	25.02615	679.1841
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.21900	-1.54508	.5092349	35.55060	14.70306	-5.48858	1.822915
SDEV	.51117	1.21034	.0695346	.24647	.30302	2.33509	2.376868
%RSD	2.300584	78.33517	13.65472	.6932983	2.060954	42.54463	130.3883
#1	21.75574	-2.19644	.4616494	35.81429	14.62951	-3.72421	.1074453
#2	22.76739	-.148548	.5890346	35.32602	14.44357	-4.60499	4.536013
#3	22.13386	-2.29025	.4770208	35.51149	15.03608	-8.13653	.8252868
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1717766	9.507588	17.29184	4.254074	.6054550	-10.5919	-2.94477
SDEV	.3502642	2.143616	1.24156	3.497963	1.868550	6.0634	.48665
%RSD	203.9068	22.54637	7.180030	82.22620	308.6191	57.24541	16.52601
#1	.0109472	11.98253	15.94594	1.218687	-.450903	-5.83210	-2.67592
#2	.5735717	8.237045	17.53716	8.079487	2.762916	-8.52517	-2.65186
#3	-.069189	8.303192	18.39243	3.464049	-.495648	-17.4185	-3.50654
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-8.09869	8.976122	-.973571	-14.7946	-5.41364	3017.422
SDEV	3.91830	2.875616	.622874	1.4430	.25703	19.536
%RSD	48.38188	32.03628	63.97826	9.753388	4.747803	.6474522
#1	-12.5443	9.113378	-.336935	-14.6845	-5.23087	2996.467
#2	-6.60427	11.78065	-1.58170	-16.2895	-5.30251	3035.133
#3	-5.14751	6.034336	-1.00208	-13.4099	-5.70753	3020.666
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB1 OPERATOR:
RUN TIME: 03/23/11 05:44:20
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	215.1715	263635.3	532.3683	507.8159	251019.7	1015.890	517.7079
SDEV	1.1129	1468.6	2.8132	2.4097	1139.6	4.650	2.2017
%RSD	.5172144	.5570674	.5284314	.4745193	.4539956	.4577697	.4252707
#1	213.9099	261952.7	529.1561	505.0536	251503.6	1010.569	515.1750
#2	216.0139	264659.2	534.3931	509.4864	249718.0	1019.180	519.1631
#3	215.5908	264294.2	533.5557	508.9078	251837.6	1017.920	518.7856
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	561.6324	554.8767	99959.34	7.993792	264999.0	541.7239	835.6945
SDEV	2.7604	3.1425	524.27	8.512205	1328.5	2.4956	121.2299
%RSD	.4914893	.5663363	.5244875	106.4852	.5013369	.4606859	14.50648
#1	558.5568	551.2933	99354.01	17.50005	263465.6	538.8599	971.4103
#2	563.8948	556.1738	100268.5	5.404225	265804.9	543.4319	797.5453
#3	562.4456	557.1629	100255.5	1.077104	265726.5	542.8800	738.1279
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1056.989	106.3603	525.5195	1071.773	66.09360	52.26401	642.6773
SDEV	5.005	2.6905	2.1074	5.268	.96679	2.33346	2.6109
%RSD	.4734917	2.529590	.4010146	.4915256	1.462755	4.464759	.4062478
#1	1051.212	103.2558	523.1676	1065.697	64.98173	54.89126	644.2447
#2	1059.762	107.8114	527.2363	1075.068	66.73600	51.46829	639.6633
#3	1059.995	108.0138	526.1547	1074.555	66.56309	50.43249	644.1238
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	103.5415	59.95064	69.15640	648.6668	639.6842	45.86623	55.45405
SDEV	1.0011	1.80715	2.20510	2.4848	3.2542	7.56249	.36331
%RSD	.9668967	3.014401	3.188563	.3830551	.5087209	16.48815	.6551474
#1	102.4027	61.37364	66.77898	651.5014	640.6188	54.48830	55.08843
#2	103.9391	57.91736	71.13463	646.8650	636.0649	42.75363	55.81500
#3	104.2828	60.56091	69.55560	647.6341	642.3688	40.35676	55.45873
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	971.7047	1022.901	988.8785	990.8322	1004.606	2990.133
SDEV	2.7017	4.535	8.3207	3.6533	7.512	4.677
%RSD	.2780359	.4433870	.8414325	.3687091	.7477229	.1564033
#1	968.7801	1020.075	979.3204	987.9877	996.0129	2988.533
#2	974.1073	1028.132	992.8104	994.9523	1007.880	2986.467
#3	972.2266	1020.495	994.5046	989.5566	1009.925	2995.400
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV2 OPERATOR:
RUN TIME: 03/23/11 05:51:21
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	95.83145	50726.34	998.1675	993.6964	49188.97	983.0869	985.4040
SDEV	.67822	659.87	12.8062	14.4720	1461.38	13.1484	13.8456
%RSD	.7077195	1.300841	1.282971	1.456378	2.970957	1.337461	1.405071
#1	96.35682	49968.20	983.4404	976.9868	48680.38	967.9237	969.4179
#2	95.06580	51171.36	1006.686	1001.876	50836.69	990.0064	993.2134
#3	96.07172	51039.45	1004.377	1002.226	48049.84	991.3306	993.5807
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1000.859	989.2498	24979.22	49522.96	50129.37	984.0912	51486.43
SDEV	14.448	1.3607	333.16	619.85	723.65	13.6820	986.99
%RSD	1.443580	.1375477	1.333750	1.251644	1.443555	1.390315	1.916994
#1	984.1822	990.3497	24594.57	48814.79	49293.83	968.2941	50362.32
#2	1008.801	987.7282	25176.71	49966.94	50538.68	992.1770	52211.06
#3	1009.594	989.6713	25166.39	49787.16	50555.59	991.8024	51885.91
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	995.3904	1002.289	1005.010	1069.535	988.2736	998.9595	1040.176
SDEV	13.8213	12.586	13.550	14.590	16.0466	22.5246	15.189
%RSD	1.388528	1.255712	1.348220	1.364184	1.623697	2.254808	1.460202
#1	979.4312	988.1981	989.3832	1052.688	970.2038	974.6722	1022.806
#2	1003.291	1006.255	1013.488	1077.995	993.7585	1003.044	1046.762
#3	1003.449	1012.415	1012.160	1077.924	1000.859	1019.163	1050.960
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1000.626	990.1305	987.3425	1038.082	1041.218	995.1265	1000.869
SDEV	13.819	17.1332	15.7112	17.792	14.500	19.7386	24.472
%RSD	1.381007	1.730394	1.591265	1.713963	1.392566	1.983525	2.445062
#1	984.6747	971.9131	969.3464	1017.784	1025.310	977.0000	973.5061
#2	1008.945	992.5580	994.3537	1050.982	1044.651	992.2237	1008.442
#3	1008.260	1005.920	998.3275	1045.479	1053.694	1016.156	1020.660
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1001.986	993.6398	1017.745	1011.440	1042.018	3013.778
SDEV	15.920	19.6004	16.447	13.217	13.720	39.597
%RSD	1.588842	1.972585	1.615985	1.306729	1.316671	1.313868
#1	984.4543	971.1175	998.7939	997.6027	1026.183	3059.200
#2	1005.963	1006.833	1028.279	1012.785	1050.346	2986.533
#3	1015.540	1002.968	1026.164	1023.933	1049.526	2995.600
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB2 OPERATOR:
RUN TIME: 03/23/11 05:58:22
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9595048	9.642054	-.279065	.0147683	4.389452	.0303701	.8797919
SDEV	.2333295	4.233683	.072888	.0323655	.404574	.0124111	.2452245
%RSD	24.31770	43.90852	26.11855	219.1559	9.216959	40.86637	27.87301
#1	1.170629	4.754855	-.206534	-.011488	3.942550	.0256770	1.157350
#2	.7089859	12.18832	-.352305	.0509288	4.730754	.0444435	.7895504
#3	.9988992	11.98298	-.278356	.0048636	4.495053	.0209899	.6924747
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7466757	.3179552	10.06491	14.31037	11.94468	-.161330	183.4475
SDEV	.1339431	.2789304	2.65869	13.55461	1.65459	.059970	196.2597
%RSD	17.93859	87.72632	26.41540	94.71882	13.85207	37.17198	106.9842
#1	.8756011	.0989570	13.03882	26.59912	10.62526	-.185526	408.4649
#2	.6082236	.6319830	7.918037	-.228498	11.40773	-.093043	47.63105
#3	.7562025	.2229256	9.237863	16.56049	13.80105	-.205422	94.24641
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5935852	2.856178	.4794547	.1633859	1.317258	-2.66174	-.109828
SDEV	.3827268	3.564871	.1871416	.0742072	.663975	2.78007	.249622
%RSD	64.47716	124.8127	39.03218	45.41835	50.40588	104.4455	227.2849
#1	.8969756	4.039534	.5682108	.1211363	.5505889	Q-5.86940	-.222223
#2	.1635996	5.678889	.2644491	.2490702	1.695375	-1.16721	.1762321
#3	.7201803	-1.14989	.6057041	.1199512	1.705810	-.948605	-.283493
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5751424	-2.56057	3.249242	1.822124	-1.07838	-3.21233	-2.39088
SDEV	1.541557	2.30761	1.124156	2.550970	1.02647	4.03461	4.01357
%RSD	268.0305	90.12086	34.59749	139.9998	95.18598	125.5976	167.8700
#1	2.204646	-3.76699	2.702104	2.783502	-1.72687	-4.51381	-6.55022
#2	.3808242	-4.01491	4.542227	3.752714	-1.61334	-6.43557	1.459008
#3	-.860043	.1001789	2.503397	-1.06984	.1050677	1.312385	-2.08143
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.81986	4.976763	-.172710	10.38434	1.504339	3025.333
SDEV	2.45046	1.865930	.773956	1.77656	.598935	10.571
%RSD	134.6506	37.49285	448.1241	17.10803	39.81382	.3494026
#1	-2.79604	7.131339	.6678002	11.25109	2.137027	3014.933
#2	-3.63179	3.906344	-.855956	11.56115	1.429868	3036.066
#3	.9682357	3.892606	-.329975	8.340776	.9461228	3025.000
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-11RE1 OPERATOR:
RUN TIME: 03/23/11 06:07:48
COMMENT: SDG:1103082 CLIENTID:MW-13R 1:3
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2805339	4648.639	117.2615	.3834863	46290.31	1.016614	3.190438
SDEV	.3660733	76.551	1.8807	.0271024	463.63	.248407	.348698
%RSD	130.4916	1.646735	1.603865	7.067364	1.001563	24.43474	10.92948
#1	-.141821	4636.418	117.0743	.3568416	45775.20	.8588354	2.935930
#2	.5066156	4730.565	119.2288	.4110243	46421.59	1.302953	3.587896
#3	.4768068	4578.933	115.4814	.3825929	46674.14	.8880537	3.047489
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	17.47041	32.51511	24181.78	1379.093	5372.042	436.5864	132774.2
SDEV	.61512	.43926	383.82	34.480	85.770	6.8821	1992.5
%RSD	3.520949	1.350944	1.587229	2.500209	1.596603	1.576342	1.500657
#1	17.32437	32.17748	24152.80	1373.273	5356.496	436.1042	132497.3
#2	18.14541	33.01172	24579.27	1416.113	5464.521	443.6968	134890.6
#3	16.94144	32.35612	23813.27	1347.893	5295.107	429.9580	130934.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	14.12498	2.234303	10.81849	236.0561	21.95378	-3.56344	2.041529
SDEV	.44500	2.079436	.37780	3.8191	1.11418	1.26875	.977053
%RSD	3.150418	93.06871	3.492187	1.617897	5.075134	35.60470	47.85889
#1	13.68000	4.407880	10.61063	235.9284	21.09604	-3.65464	.9246197
#2	14.56999	2.031102	11.25458	239.9375	23.21308	-4.78413	2.462079
#3	14.12494	.2639259	10.59026	232.3024	21.55221	-2.25155	2.737890
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.422440	20.28768	22.78163	2.145958	1.985452	-5.37744	-2.66174
SDEV	1.174824	1.25776	1.51997	1.520533	1.169778	5.24630	1.35081
%RSD	82.59218	6.199641	6.671917	70.85565	58.91745	97.56132	50.74916
#1	1.108476	18.90019	22.18837	.8912993	.9373099	-2.70765	-4.13137
#2	2.722348	20.60980	24.50877	3.836958	1.771670	-11.4217	-1.47434
#3	.4364945	21.35307	21.64776	1.709618	3.247377	-2.00300	-2.37951
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.886340	2.973825	.7743783	100.8439	14.54584	3090.267
SDEV	2.789588	2.839084	.3360996	5.9433	1.02361	47.643
%RSD	147.8836	95.46909	43.40250	5.893595	7.037104	1.541717
#1	4.709204	1.503028	.5946982	94.73663	13.84484	3086.533
#2	1.818551	6.246538	.5663103	106.6085	15.72048	3044.600
#3	-.868736	1.171910	1.162126	101.1865	14.07219	3139.666
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032204-BLK1 OPERATOR:
RUN TIME: 03/23/11 06:14:48
COMMENT: SDG:1103066 CLIENTID:PBW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3682074	-4.84173	-.524848	-.092191	4.546661	-.118916	.4092075
SDEV	.2426808	4.42791	.019738	.012166	.260274	.068698	.1006827
%RSD	65.90872	91.45290	3.760731	13.19666	5.724506	57.77010	24.60432
#1	.4056836	-.497001	-.539051	-.078156	4.833803	-.112029	.5126023
#2	.1089685	-4.67983	-.533183	-.098677	4.479932	-.053921	.4035443
#3	.5899700	-9.34837	-.502309	-.099740	4.326249	-.190799	.3114759
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	50.00000
LOW	-5.00000	-200.000	-200.000	-5.00000	-5000.00	-5.00000	-50.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1408210	.0564340	.3460740	4.709658	-2.06856	-.291070	143.6132
SDEV	.2733399	.1891093	2.782944	3.269762	.77752	.029021	38.2188
%RSD	194.1044	335.0979	804.1470	69.42673	37.58743	9.970411	26.61234
#1	.2597241	.2119010	3.310453	8.304864	-2.27317	-.264015	100.8031
#2	-.171832	-.154096	-.061817	3.910661	-2.72332	-.321721	174.2999
#3	.3345714	.1114969	-2.21041	1.913450	-1.20920	-.287473	155.7366
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	10.00000	25.00000	100.0000	5000.000	5000.000	15.00000	5000.000
LOW	-10.0000	-25.0000	-100.000	-5000.00	-5000.00	-15.0000	-5000.00

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0771397	-2.85708	-.207011	.7797071	.4695860	-2.37853	-1.09115
SDEV	.2888438	2.02214	.204506	.0375739	.3651380	2.22404	.29940
%RSD	374.4428	70.77638	98.78974	4.818981	77.75743	93.50484	27.43918
#1	.3974734	-2.04556	.0265829	.8213853	.2592178	-4.25186	-.912807
#2	-.163467	-5.15892	-.293842	.7693083	.8912107	.0794296	-1.43681
#3	-.002588	-1.36677	-.353774	.7484277	.2583294	-2.96316	-.923826
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	40.00000	10.00000	50.00000	60.00000	10.00000	35.00000	60.00000
LOW	-40.0000	-10.0000	-50.0000	-60.0000	-10.0000	-35.0000	-60.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.773079	-2.00678	1.701796	2.739967	-3.00778	-4.37276	-1.38686
SDEV	1.439449	1.58001	.538364	.741392	.23079	3.42722	2.72444
%RSD	186.1970	78.73370	31.63501	27.05841	7.673101	78.37665	196.4460
#1	-1.99563	-1.59578	1.181331	2.742694	-2.74181	-8.25264	-2.25846
#2	-1.13702	-.672882	1.667627	1.997216	-3.15521	-3.10785	1.666719
#3	.8134107	-3.75168	2.256431	3.479991	-3.12633	-1.75777	-3.56885
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	10.00000						
LOW	-10.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.81692	2.152934	-1.67774	3.234099	-1.50042	3080.822
SDEV	4.20812	1.077882	.27480	2.729386	.40369	38.581
%RSD	231.6067	50.06575	16.37941	84.39401	26.90488	1.252303
#1	-6.41061	1.908830	-1.84874	5.612341	-1.11568	3047.733
#2	-.891853	3.331934	-1.36076	.2540223	-1.46488	3071.533
#3	1.851695	1.218037	-1.82373	3.835935	-1.92070	3123.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	100.0000	50.00000	10.00000	40.00000	10.00000	
LOW	-100.000	-50.0000	-10.0000	-40.0000	-10.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032204-BS1 OPERATOR:
RUN TIME: 03/23/11 06:21:48
COMMENT: SDG:1103066 CLIENTID:LCSW 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	499.7132	2681.065	521.7131	504.7984	10298.54	515.9814	522.3642
SDEV	3.1418	5.439	.5811	1.1561	65.92	1.9888	1.5757
%RSD	.6287238	.2028686	.1113760	.2290314	.6401213	.3854390	.3016480
#1	496.1271	2682.188	521.8898	505.7646	10369.07	518.0262	523.9241
#2	501.9819	2675.153	521.0642	503.5175	10238.48	514.0538	520.7731
#3	501.0304	2685.856	522.1852	505.1131	10288.08	515.8643	522.3953
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	594.0000	2978.000	602.0000	591.0000	12216.00	592.0000	595.0000
LOW	396.0000	1986.000	402.0000	395.0000	8144.000	395.0000	397.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	519.8001	519.2328	5256.815	9283.941	6157.215	509.6538	11024.66
SDEV	1.8946	3.4131	13.219	27.015	19.942	1.4062	188.38
%RSD	.3644834	.6573262	.2514714	.2909908	.3238796	.2759071	1.708692
#1	521.4062	515.2980	5270.481	9305.908	6179.134	511.0462	11080.30
#2	517.7106	521.3910	5244.093	9253.776	6140.144	508.2342	10814.73
#3	520.2833	521.0096	5255.872	9292.139	6152.368	509.6809	11178.95
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	588.0000	588.0000	6128.000	12009.00	7203.000	594.0000	12046.00
LOW	392.0000	392.0000	4086.000	8007.000	4803.000	396.0000	8031.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	522.7358	1067.054	524.1693	1012.010	1043.228	1032.272	1044.673
SDEV	1.2844	6.069	1.3105	1.925	4.436	4.034	3.540
%RSD	.2457074	.5687870	.2500170	.1901822	.4251942	.3907758	.3388959
#1	524.2100	1065.991	525.5306	1013.154	1047.466	1035.668	1047.469
#2	521.8586	1061.587	522.9163	1009.788	1038.618	1027.813	1040.692
#3	522.1386	1073.585	524.0612	1013.088	1043.602	1033.335	1045.857
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	590.0000	1232.000	601.0000	1200.000	1195.000	1206.000	1190.000
LOW	394.0000	822.0000	401.0000	800.0000	797.0000	804.0000	794.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1029.397	1043.228	1043.586	1052.920	1040.551	1021.630	1037.581
SDEV	1.761	7.146	3.449	.365	5.133	8.555	2.620
%RSD	.1711042	.6849437	.3305301	.0346211	.4933319	.8373822	.2524861
#1	1028.010	1048.258	1047.429	1053.111	1044.648	1030.830	1038.079
#2	1028.803	1035.049	1040.756	1052.500	1034.793	1013.914	1034.748
#3	1031.379	1046.376	1042.575	1053.150	1042.212	1020.145	1039.916
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	1195.000						
LOW	797.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-6.94596	-2.92044	-1.03395	5.070914	L-1.31128	3020.000
SDEV	2.36160	1.81096	.72332	1.937258	.29990	18.443
%RSD	33.99959	62.00987	69.95701	38.20333	22.87097	.6106796
#1	-6.83340	-1.76114	-.491653	3.001534	L-1.65140	3000.266
#2	-4.64266	-1.99291	-.754983	5.369927	L-1.19761	3036.800
#3	-9.36183	-5.00727	-1.85522	6.841279	L-1.08483	3022.933
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	LC LOW	NOCHECK
HIGH					1200.000	
LOW					800.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-06 OPERATOR:
RUN TIME: 03/23/11 06:28:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-12 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3107164	.4746768	56.46207	-.037074	47305.87	-.175113	.3560001
SDEV	.4178451	1.465782	.13724	.024278	819.94	.132549	.0863690
%RSD	134.4780	308.7957	.2430682	65.48489	1.733265	75.69368	24.26094
#1	-.037319	-1.17774	56.41426	-.014110	47907.25	-.022301	.2807367
#2	.7741265	.9836237	56.35513	-.062482	47638.47	-.244052	.4502989
#3	.1953421	1.618147	56.61682	-.034631	46371.89	-.258984	.3369647
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6138508	65.10255	-3.45294	2608.546	21409.74	.9796697	18153.73
SDEV	.1074439	.66692	4.26462	2.854	9.75	.0326275	98.04
%RSD	17.50326	1.024409	123.5068	.1094022	.0455205	3.330459	.5400729
#1	.6471314	64.43173	-2.32909	2609.148	21417.45	1.013958	18260.39
#2	.7007166	65.11041	.1372006	2605.439	21398.78	.9490058	18133.27
#3	.4937045	65.76550	-8.16694	2611.050	21412.99	.9760451	18067.53
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.7956147	-2.32412	10.93157	43.30593	1.716968	-3.69740	-.283627
SDEV	.1847931	1.17072	.20286	.16583	.881266	.79936	1.475708
%RSD	23.22646	50.37237	1.855742	.3829351	51.32689	21.61948	520.2993
#1	.9082115	-2.09434	11.00877	43.12747	1.104349	-4.61778	.9944278
#2	.8962876	-3.59269	11.08450	43.33506	1.319605	-3.29755	-1.89869
#3	.5823451	-1.28533	10.70144	43.45528	2.726949	-3.17686	.0533817
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.999890	-.835387	2.986223	1.436384	-1.14635	-7.61634	-1.74487
SDEV	1.664040	1.291794	.753288	3.319356	2.80909	1.20552	.81733
%RSD	166.4223	154.6341	25.22543	231.0911	245.0468	15.82813	46.84168
#1	.7714998	-1.25446	2.276945	-1.19517	2.083552	-8.76938	-2.54913
#2	-1.24086	-1.86562	2.904817	.3387949	-3.01976	-6.36442	-1.77042
#3	-2.53031	.6139124	3.776908	5.165525	-2.50284	-7.71520	-.915070
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	4.882316	.1904323	-1.00706	1.893841	2.475846	3039.911
SDEV	1.709745	.7576332	.82435	2.375513	.177710	19.243
%RSD	35.01913	397.8492	81.85737	125.4337	7.177748	.6330122
#1	5.748323	.4815410	-1.30975	.2372827	2.601987	3021.733
#2	2.912839	.7593356	-1.63729	4.615509	2.552943	3037.933
#3	5.985786	-.669580	-.074153	.8287296	2.272607	3060.066
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032204-DUP1 OPERATOR:
RUN TIME: 03/23/11 06:35:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-12D 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3542745	4.210377	56.56881	-.111904	47447.98	-.183436	.3729593
SDEV	.1474254	2.798692	.02416	.039823	567.63	.114119	.2485114
%RSD	41.61332	66.47131	.0427081	35.58692	1.196322	62.21172	66.63230
#1	.3468843	6.924208	56.58995	-.078748	47763.26	-.293217	.2697988
#2	.2106832	1.333916	56.54248	-.156075	46792.69	-.065425	.6564368
#3	.5052559	4.373005	56.57400	-.100887	47787.98	-.191666	.1926424
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2199165	65.47984	-10.6964	2624.672	21461.75	.9588354	18318.44
SDEV	.2857765	.22795	4.6688	9.150	22.08	.0299795	70.49
%RSD	129.9477	.3481231	43.64807	.3486328	.1028735	3.126652	.3848185
#1	.4128888	65.65237	-6.50903	2626.998	21475.47	.9526972	18298.65
#2	-.108387	65.22142	-15.7307	2632.436	21436.28	.9324002	18396.71
#3	.3552480	65.56573	-9.84953	2614.584	21473.50	.9914089	18259.95
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.8017994	-.102720	10.93729	43.66465	2.010748	-2.33723	1.781016
SDEV	.3821226	4.356830	.19570	.15152	.143852	1.04047	1.685056
%RSD	47.65813	4241.475	1.789279	.3470093	7.154160	44.51722	94.61206
#1	.9211354	4.909302	10.78902	43.80880	1.914033	-3.43485	3.209327
#2	.3742498	-2.98515	11.15911	43.50670	2.176059	-2.21148	-.077412
#3	1.110013	-2.23231	10.86373	43.67844	1.942151	-1.36534	2.211134
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-2.96024	-.984843	3.501278	5.016809	.1615264	-4.28869	-1.36697
SDEV	.69986	.186825	.304613	1.721152	1.860671	2.40069	.44536
%RSD	23.64189	18.97001	8.700048	34.30770	1151.930	55.97718	32.58011
#1	-3.62447	-.804846	3.266411	5.519503	2.051951	-6.98897	-1.66446
#2	-3.02673	-1.17782	3.845465	3.100278	-1.66789	-3.48138	-1.58151
#3	-2.22951	-.971862	3.391958	6.430646	.1005187	-2.39572	-.854949
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.258776	3.833519	-.704438	-.893217	2.114763	3030.511
SDEV	2.699372	1.738237	.384800	1.696853	.293242	2.386
%RSD	82.83390	45.34312	54.62511	189.9711	13.86642	.0787427
#1	1.435853	3.475047	-1.12102	-.098765	2.320152	3029.933
#2	1.980645	5.723046	-.362299	-2.84155	2.245204	3033.133
#3	6.359832	2.302466	-.629994	.2606692	1.778933	3028.467
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1032204-MS1 OPERATOR:
RUN TIME: 03/23/11 06:42:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-12S 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	50.03369	2034.645	2068.666	49.50096	46722.52	49.72150	504.8711
SDEV	.28583	8.798	4.786	.15009	248.74	.33074	1.9492
%RSD	.5712838	.4324062	.2313675	.3032112	.5323710	.6651912	.3860690
#1	50.31856	2044.517	2074.101	49.66722	46973.79	50.01817	506.6436
#2	50.03561	2031.783	2066.821	49.46022	46717.38	49.78147	505.1860
#3	49.74690	2027.633	2065.078	49.37545	46476.39	49.36488	502.7837
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	203.7179	319.6717	1008.397	2621.847	21455.59	498.0496	18279.12
SDEV	.7269	.5962	8.631	12.968	52.25	1.3834	108.10
%RSD	.3568247	.1865034	.8558828	.4946265	.2435283	.2777675	.5913895
#1	204.4734	319.3507	1018.198	2636.505	21513.61	499.5634	18338.18
#2	203.0235	319.3047	1005.058	2611.866	21440.91	497.7345	18344.83
#3	203.6567	320.3596	1001.934	2617.169	21412.25	496.8510	18154.35
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	505.9979	46.75092	519.4868	527.7739	22.68323	46.70708	103.5671
SDEV	1.8197	3.34025	1.3218	1.3931	.77307	4.20861	2.1149
%RSD	.3596233	7.144774	.2544510	.2639519	3.408133	9.010657	2.042065
#1	507.9777	43.65717	521.0131	529.3781	22.54794	48.85690	105.9257
#2	505.6175	46.30310	518.7214	527.0736	23.51502	41.85776	101.8394
#3	504.3984	50.29248	518.7257	526.8698	21.98673	49.40657	102.9363
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	37.54925	20.58562	23.72596	105.3733	102.6614	45.74094	47.18541
SDEV	1.61044	1.42452	.53576	1.3484	2.7843	3.66285	6.08110
%RSD	4.288876	6.919990	2.258132	1.279624	2.712100	8.007805	12.88766
#1	36.38147	20.86908	23.38158	106.0352	105.8670	42.58710	51.98307
#2	36.87986	21.84709	24.34323	103.8219	100.8457	44.87729	40.34625
#3	39.38643	19.04067	23.45307	106.2628	101.2715	49.75843	49.22692
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	2.655826	.2684284	-1.23287	-2.36629	2.010709	3037.377
SDEV	.638263	.3015156	.13382	6.01630	.408643	15.969
%RSD	24.03258	112.3263	10.85456	254.2499	20.32331	.5257376
#1	3.319547	.2214401	-1.09506	3.076241	2.260870	3021.266
#2	2.601430	-.006834	-1.36232	-1.34858	2.232117	3037.666
#3	2.046502	.5906795	-1.24123	-8.82654	1.539141	3053.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: SDI1103066-06 OPERATOR:
RUN TIME: 03/23/11 06:49:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-12L 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6262844	-2.03245	10.78298	-.087264	9383.748	-.100223	.5163763
SDEV	.5787818	4.47975	.00940	.020258	67.961	.080357	.1147288
%RSD	92.41518	220.4118	.0871988	23.21457	.7242378	80.17802	22.21807
#1	.1107190	-6.89463	10.78659	-.103279	9403.772	-.187279	.3888110
#2	1.252351	1.927554	10.77231	-.064491	9439.447	-.028891	.5492067
#3	.5157837	-1.13026	10.79004	-.094022	9308.025	-.084497	.6111111
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4612005	12.74553	-.149374	445.0811	4232.767	-.051330	3611.983
SDEV	.3512929	.41720	3.123660	3.7347	4.943	.061622	73.571
%RSD	76.16922	3.273279	2091.163	.8391156	.1167730	120.0497	2.036864
#1	.2307765	12.34209	1.643822	448.4978	4228.789	-.076734	3694.403
#2	.8655237	13.17524	1.664302	441.0939	4231.211	.0189323	3552.943
#3	.2873014	12.71927	-3.75625	445.6514	4238.300	-.096190	3588.604
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5831031	-.480588	2.180526	8.206334	.0878248	-3.20019	.7370072
SDEV	.2345715	1.348831	.144243	.087963	.4449371	2.40440	.7076643
%RSD	40.22814	280.6628	6.615076	1.071892	506.6189	75.13296	96.01865
#1	.3140532	-2.03577	2.185312	8.122234	.2825337	-3.50956	.7120096
#2	.7447002	.2235521	2.322317	8.297709	.4022171	-5.43493	.0421729
#3	.6905558	.3704574	2.033949	8.199058	-.421276	-.656082	1.456839
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.373798	-3.18692	1.718263	3.000485	-.397016	-4.13142	-2.73925
SDEV	.681981	2.88147	1.545677	4.588531	2.783404	7.48653	3.17762
%RSD	182.4465	90.41560	89.95579	152.9263	701.0808	181.2094	116.0032
#1	-.773512	-.032106	.4351420	-2.03372	2.078838	1.965350	-6.24688
#2	.4136555	-5.67988	3.434216	6.948390	-3.40975	-12.4874	-1.91799
#3	-.761536	-3.84877	1.285432	4.086787	.1398657	-1.87226	-.052877
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK

HIGH	20000.00
LOW	-20000.0

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.869062	1.118322	-1.64499	5.373262	.0305624	3058.311
SDEV	1.704248	2.172469	.75884	7.390096	.3094664	8.809
%RSD	196.1020	194.2615	46.13070	137.5346	1012.572	.2880397
#1	-2.82903	1.580633	-1.93218	.2015103	-.036497	3060.333
#2	.2637278	3.022424	-.784464	13.83734	.3680604	3048.666
#3	-.041882	-1.24809	-2.21832	2.080937	-.239876	3065.933
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1032204-PS1 OPERATOR:
RUN TIME: 03/23/11 06:56:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-12A 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.51429	-1.15771	55.85139	9.230271	47886.38	9.367009	96.00470
SDEV	.54061	1.56004	.54108	.083693	1092.97	.087093	1.03326
%RSD	2.770316	134.7524	.9687900	.9067223	2.282416	.9297889	1.076263
#1	18.99993	-.026929	56.36161	9.316174	49131.48	9.425276	96.92436
#2	19.46515	-.508713	55.90856	9.225661	47442.36	9.408861	96.20314
#3	20.07779	-2.93748	55.28399	9.148978	47085.31	9.266890	94.88661
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	19.81548	113.4111	-4.91541	2595.791	21159.72	29.11112	18104.72
SDEV	.12148	.7258	9.22933	33.023	209.53	.25592	155.61
%RSD	.6130440	.6399415	187.7630	1.272185	.9902502	.8791224	.8594932
#1	19.95096	112.5772	-11.8191	2633.236	21350.93	29.34430	18235.74
#2	19.77923	113.9004	-8.49460	2583.306	21192.50	29.15173	18145.69
#3	19.71626	113.7556	5.567427	2570.830	20935.72	28.83731	17932.72
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	77.05516	46.08763	107.3844	148.8925	20.60373	63.32827	115.9601
SDEV	.86413	1.08685	1.2343	1.2849	1.04955	3.75975	3.4298
%RSD	1.121448	2.358218	1.149463	.8629885	5.094000	5.936930	2.957699
#1	77.77199	47.22327	108.3941	150.1129	21.77501	67.54710	119.8885
#2	77.29787	45.98240	107.7508	149.0130	19.74857	60.33180	114.4306
#3	76.09563	45.05723	106.0084	147.5516	20.28761	62.10590	113.5612
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	17.24118	18.58114	21.60749	116.8090	115.5323	63.45918	63.25890
SDEV	1.14427	2.76060	.49968	1.4494	5.0367	7.44391	1.93695
%RSD	6.636866	14.85697	2.312536	1.240835	4.359587	11.73023	3.061943
#1	15.96090	21.25906	22.02650	117.3720	121.1408	71.91120	65.36425
#2	17.59846	15.74470	21.74151	115.1625	114.0611	57.87882	61.55246
#3	18.16420	18.73967	21.05447	117.8924	111.3949	60.58752	62.85998
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	4.117772	3.078855	-.632041	4.395544	1.917185	3040.155
SDEV	1.496740	1.863501	.125117	4.214626	.699017	38.087
%RSD	36.34829	60.52578	19.79576	95.88404	36.46059	1.252787
#1	2.396708	4.350639	-.772965	-.234566	1.143335	2998.133
#2	4.841609	.9397798	-.589143	5.412668	2.105385	3049.933
#3	5.114998	3.946146	-.534016	8.008532	2.502836	3072.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-01 OPERATOR:
RUN TIME: 03/23/11 07:03:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-6 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1239844	8.197878	1.517518	-.114394	67322.80	-.179459	.2185464
SDEV	.1313757	3.149042	.061466	.009508	2074.88	.051844	.1331980
%RSD	105.9614	38.41289	4.050425	8.312036	3.081991	28.88894	60.94725
#1	.1854109	11.01339	1.588446	-.104913	69361.98	-.168868	.2390013
#2	.2133946	4.797353	1.484290	-.123929	65213.96	-.133728	.3403337
#3	-.026852	8.782890	1.479818	-.114339	67392.44	-.235780	.0763041
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.055888	.6676257	44.90737	2480.813	14371.20	52.65612	14134.84
SDEV	.276452	.2079814	8.49781	20.655	58.31	.27171	114.30
%RSD	494.6538	31.15240	18.92298	.8325767	.4057430	.5160133	.8086631
#1	-.027210	.6025892	47.88869	2501.343	14434.80	52.93458	14207.17
#2	-.345562	.4999341	35.32062	2481.060	14358.57	52.64208	14194.30
#3	.2051071	.9003537	51.51279	2460.036	14320.25	52.39170	14003.07
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1588284	-1.67743	.0703588	336.6284	.4943105	-2.38102	.5194205
SDEV	.4200822	4.64079	.1217441	1.1652	1.237894	2.33132	1.596992
%RSD	264.4881	276.6607	173.0332	.3461311	250.4284	97.91288	307.4565
#1	.6435850	-7.02964	-.057054	337.9732	1.874833	-4.55645	-.600763
#2	-.068472	1.227418	.0826259	335.9203	-.516887	-2.66650	2.348084
#3	-.098628	.7699310	.1855050	335.9917	.1249861	.0798993	-.189060
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.72069	-2.32149	1.896076	3.065514	-.755744	-5.06012	-1.04750
SDEV	1.32686	2.52579	.877997	2.200609	1.400747	3.46099	3.68992
%RSD	77.11206	108.8001	46.30602	71.78598	185.3469	68.39749	352.2594
#1	-1.49759	-.067604	2.840553	2.258587	-2.03234	-3.15083	-5.26225
#2	-3.14495	-5.05143	1.742980	5.555681	.7426843	-9.05522	.5190715
#3	-.519520	-1.84545	1.104696	1.382274	-.977579	-2.97429	1.600672
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.411523	1.182971	-1.27588	-1.34268	2.678165	3025.711
SDEV	1.163032	2.064420	.26748	3.74429	.073142	13.345
%RSD	82.39551	174.5114	20.96458	278.8667	2.731035	.4410548
#1	.4217277	2.616788	-1.58167	1.512306	2.731561	3014.333
#2	1.120373	2.115292	-1.08533	-5.58202	2.594799	3040.400
#3	2.692469	-1.18317	-1.16064	.0416741	2.708136	3022.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-02 OPERATOR:
RUN TIME: 03/23/11 07:10:48
COMMENT: SDG:1103066 CLIENTID:DLX-PW-4 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4377826	58.68047	169.3976	-.052869	66380.73	-.067508	4.493127
SDEV	.1332035	2.76920	.9614	.028674	395.31	.127509	.133267
%RSD	30.42686	4.719116	.5675561	54.23613	.5955137	188.8798	2.966026
#1	.3200209	56.36063	168.9524	-.085842	66599.96	-.102823	4.462477
#2	.5823507	57.93456	168.7395	-.033780	66617.84	-.173637	4.639049
#3	.4109761	61.74623	170.5009	-.038985	65924.38	.0739363	4.377855
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.4715339	4.585215	687.8338	5437.521	36564.57	1654.116	34008.21
SDEV	.1095322	.056432	6.2239	27.388	211.10	9.247	193.81
%RSD	23.22890	1.230742	.9048493	.5036851	.5773312	.5590192	.5698866
#1	.3459825	4.537426	688.5739	5426.895	36454.77	1649.181	33855.09
#2	.5475357	4.647473	681.2730	5417.038	36431.02	1648.384	33943.44
#3	.5210835	4.570744	693.6545	5468.629	36807.94	1664.784	34226.11
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.87736	-2.28097	1.349176	9.805573	.3290731	-3.00478	-1.35179
SDEV	.08000	1.09146	.233814	.143802	.4843612	3.69388	1.00273
%RSD	.7354346	47.85039	17.33015	1.466534	147.1896	122.9335	74.17789
#1	10.79349	-3.18042	1.091523	9.646953	.6248598	-6.39790	-2.50255
#2	10.95281	-1.06671	1.408142	9.842355	.5922618	.9300414	-.887237
#3	10.88576	-2.59580	1.547862	9.927412	-.229902	-3.54648	-.665586
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-1.75235	-2.06999	1.522317	-.371010	-1.84544	-6.42857	-1.29944
SDEV	.73275	1.92831	1.502091	1.245361	.91164	2.90144	4.38137
%RSD	41.81520	93.15547	98.67140	335.6674	49.39984	45.13353	337.1727
#1	-2.42496	-4.29341	3.075819	-1.79690	-2.85883	-9.76577	-4.72047
#2	-1.86057	-1.06184	1.413584	.5033213	-1.58546	-4.50379	3.638895
#3	-.971504	-.854739	.0775461	.1805512	-1.09202	-5.01613	-2.81676
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	3.627180	4.248621	-.950393	2.892428	4.423875	3050.289
SDEV	.815353	.739068	.482790	2.418994	.375201	6.031
%RSD	22.47899	17.39549	50.79895	83.63194	8.481281	.1977219
#1	2.975824	5.100827	-1.43653	.1709185	3.997968	3054.066
#2	3.364128	3.783388	-.943617	3.708600	4.568070	3053.467
#3	4.541587	3.861650	-.471027	4.797766	4.705589	3043.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/23/11 07:17:48
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.80550	49342.59	970.8024	968.6901	49241.78	961.3048	961.4524
SDEV	.10692	46.47	1.0039	1.4962	893.31	2.5257	2.4678
%RSD	.1139830	.0941716	.1034121	.1544596	1.814129	.2627416	.2566759
#1	93.69868	49393.97	971.8357	968.3184	50262.16	962.3774	961.2925
#2	93.80531	49303.51	970.7407	970.3372	48862.41	963.1171	963.9963
#3	93.91252	49330.30	969.8307	967.4149	48600.76	958.4197	959.0685
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	977.6206	959.9670	24296.66	48223.04	48754.54	960.1175	50438.31
SDEV	2.0085	4.2297	60.56	52.93	138.84	1.6474	187.21
%RSD	.2054525	.4406084	.2492688	.1097699	.2847827	.1715791	.3711655
#1	978.0530	963.5138	24297.29	48262.27	48790.33	960.7294	50248.23
#2	979.3777	955.2858	24356.90	48244.02	48871.98	961.3714	50622.51
#3	975.4311	961.1014	24235.78	48162.84	48601.30	958.2518	50444.17
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	970.9206	971.4946	979.9005	1041.710	969.7593	981.6604	1014.678
SDEV	2.1150	3.0187	1.4033	.992	2.4254	5.9309	4.207
%RSD	.2178362	.3107284	.1432077	.0952088	.2501052	.6041722	.4146250
#1	970.6925	971.0739	980.1533	1041.269	967.5034	975.1265	1011.755
#2	973.1404	974.7016	981.1602	1042.845	972.3245	986.7040	1012.780
#3	968.9288	968.7083	978.3880	1041.014	969.4500	983.1507	1019.500
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	975.1723	967.7907	970.7371	1020.372	1011.832	973.6630	985.6490
SDEV	4.6724	3.9242	3.9139	3.134	5.741	8.2281	6.5695
%RSD	.4791325	.4054842	.4031835	.3071160	.5673373	.8450666	.6665111
#1	980.5640	964.6792	968.9083	1016.797	1009.234	965.1459	980.1052
#2	972.3091	966.4935	975.2306	1022.647	1007.851	974.2753	992.9051
#3	972.6438	972.1992	968.0725	1021.671	1018.413	981.5679	983.9369
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	979.4069	967.8124	990.5651	992.0610	1011.815	3010.666
SDEV	6.4574	3.0757	2.9206	6.2382	1.584	11.290
%RSD	.6593145	.3178036	.2948397	.6288128	.1565296	.3749848
#1	977.0952	969.1693	987.9050	985.7033	1012.708	3020.200
#2	986.7020	969.9764	990.1000	998.1724	1012.751	2998.200
#3	974.4236	964.2916	993.6903	992.3074	1009.987	3013.600
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/23/11 07:24:50
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6189722	-2.37958	-.407027	-.067200	4.431894	-.141063	.4961550
SDEV	.2209855	2.21126	.131284	.014724	.160550	.087359	.1855624
%RSD	35.70201	92.92659	32.25441	21.91008	3.622605	61.92934	37.40007
#1	.4058579	.1726566	-.312183	-.062553	4.277014	-.047110	.6433269
#2	.8470667	-3.72089	-.352033	-.055360	4.421099	-.156238	.5574347
#3	.6039920	-3.59052	-.556865	-.083686	4.597569	-.219841	.2877036
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2844239	.2000941	-.039243	13.65741	-.307643	-.280144	191.4262
SDEV	.1603002	.2042067	3.805366	7.23358	2.776654	.076221	120.7943
%RSD	56.35961	102.0553	9697.032	52.96449	902.5569	27.20772	63.10228
#1	.4395834	.2891142	-1.60241	19.55700	2.493974	-.280337	330.1847
#2	.2942530	.3446790	4.298770	15.82823	-.358262	-.203826	134.3281
#3	.1194353	-.033511	-2.81409	5.586992	-3.05864	-.356267	109.7658
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6293547	.1609221	.0786935	-.090570	.3696021	-4.42078	-.979742
SDEV	.2218131	.2260066	.3549425	.044537	.4500944	2.03570	1.819164
%RSD	35.24453	140.4448	451.0445	49.17374	121.7781	46.04855	185.6779
#1	.8197396	-.084176	.0766907	-.091837	.5695972	-3.15816	-2.04548
#2	.3857835	.3610875	.4346331	-.134460	-.145831	Q-6.76919	1.120771
#3	.6825411	.2058543	-.275243	-.045414	.6850399	-3.33498	-2.01451
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.333174	-2.01326	1.555194	1.797481	-2.37032	-3.94349	-4.66295
SDEV	1.217353	.27358	.703194	1.536193	2.20248	2.39686	1.93924
%RSD	365.3807	13.58909	45.21583	85.46367	92.91915	60.78014	41.58816
#1	-.761317	-2.31653	2.006453	.1192878	-3.13029	-3.20264	-3.14001
#2	1.040409	-1.93821	.7449657	3.134213	.1115114	-6.62330	-6.84608
#3	-1.27861	-1.78503	1.914162	2.138943	-4.09219	-2.00452	-4.00276
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.96438	3.200322	-.254380	5.385660	.3582096	3005.133
SDEV	1.88591	.310505	.939128	3.876852	.8096294	6.060
%RSD	96.00536	9.702298	369.1837	71.98471	226.0211	.2016603
#1	-4.13764	3.557439	.8289437	4.395138	.6142964	3009.733
#2	-.757964	2.994124	-.838104	9.661678	1.008828	3007.400
#3	-.997529	3.049403	-.753979	2.100163	-.548496	2998.266
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-03 OPERATOR:
RUN TIME: 03/23/11 07:31:50
COMMENT: SDG:1103066 CLIENTID:DLX-PW-16 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5547104	483.2590	110.8585	-.048491	18748.60	.3002636	1.017878
SDEV	.1918307	1.1633	.2390	.003012	101.60	.0529347	.229416
%RSD	34.58213	.2407206	.2155883	6.212010	.5419314	17.62942	22.53869
#1	.6508831	484.3687	111.1333	-.045981	18859.48	.3483820	.9892639
#2	.6794306	483.3596	110.7434	-.047660	18726.34	.2435616	1.260260
#3	.3338174	482.0487	110.6988	-.051831	18659.96	.3088471	.8041114
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	8.528125	302.7437	11002.86	1796.732	8408.888	9.229218	14260.49
SDEV	.233487	.9347	23.80	3.015	18.121	.056449	95.65
%RSD	2.737842	.3087511	.2162997	.1678190	.2155009	.6116357	.6707276
#1	8.665003	301.8080	11028.31	1798.607	8429.771	9.267941	14332.09
#2	8.660844	302.7458	10999.11	1798.336	8399.591	9.255265	14297.51
#3	8.258529	303.6774	10981.15	1793.254	8397.302	9.164449	14151.86
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	3.431668	.2937060	21.12692	171.6807	12.82429	-1.44682	.7227085
SDEV	.252168	5.956139	.27242	.2356	.26868	3.64520	1.280958
%RSD	7.348264	2027.926	1.289463	.1372568	2.095125	251.9452	177.2441
#1	3.721658	6.071828	21.10701	171.8823	12.65267	.5251611	2.190282
#2	3.309428	-5.82577	21.40876	171.7382	12.68628	-5.65322	.1486894
#3	3.263917	.6350581	20.86501	171.4217	13.13394	.7875817	-.170846
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.877606	10.29536	14.08288	3.863466	-.849294	-7.15190	1.397460
SDEV	.988081	.58026	.62756	1.884213	1.405009	1.54249	4.974411
%RSD	112.5883	5.636146	4.456162	48.77000	165.4326	21.56753	355.9609
#1	-.863814	10.96214	13.49266	5.604788	.4815874	-5.43011	3.494331
#2	-1.87251	10.01904	14.01392	1.863157	-.711232	-8.40757	-4.28208
#3	.1035075	9.904903	14.74207	4.122454	-2.31824	-7.61803	4.980127
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	4.108906	2.292791	.9104105	54.45665	1.406062	3061.000
SDEV	2.533004	4.122340	.5392265	2.76992	.311199	16.345
%RSD	61.64669	179.7957	59.22893	5.086465	22.13264	.5339716
#1	5.473019	-1.25246	1.336794	55.53647	1.147491	3043.200
#2	5.667498	1.314586	1.090173	56.52402	1.751451	3064.467
#3	1.186200	6.816249	.3042646	51.30945	1.319245	3075.333
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-05 OPERATOR:
RUN TIME: 03/23/11 07:38:50
COMMENT: SDG:1103066 CLIENTID:DLX-PW-11 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0900508	-.305364	19.73938	-.076397	92239.22	-.057253	.3765222
SDEV	.0757560	1.359475	.05941	.011413	1506.40	.095839	.2339042
%RSD	84.12582	445.1988	.3009866	14.93944	1.633149	167.3963	62.12228
#1	.0404087	.4332545	19.72811	-.074385	90552.04	-.161709	.2580776
#2	.0524962	-1.87426	19.68641	-.066123	93449.31	-.036675	.2255320
#3	.1772475	.5249126	19.80362	-.088682	92716.30	.0266259	.6459571
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3409504	17.65369	-11.7924	2749.721	15894.86	.3807614	22720.10
SDEV	.1443571	.28473	3.4636	3.412	43.85	.0164302	50.85
%RSD	42.33962	1.612845	29.37131	.1240900	.2758993	4.315102	.2238237
#1	.2078648	17.37927	-14.5905	2753.471	15945.41	.3656863	22672.43
#2	.3205729	17.63408	-12.8679	2748.895	15866.89	.3783236	22773.63
#3	.4944135	17.94771	-7.91860	2746.799	15872.29	.3982744	22714.25
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5686182	-1.79434	5.465706	62.86134	.9563842	-3.97512	-.755599
SDEV	.0949970	3.55501	.240633	.11921	.3645124	1.02918	.924059
%RSD	16.70665	198.1232	4.402593	.1896322	38.11359	25.89045	122.2949
#1	.6547062	-1.00071	5.687131	62.99784	.5387753	-3.28099	-.668698
#2	.4667008	1.296780	5.209623	62.77775	1.210701	-3.48681	.1219394
#3	.5844474	-5.67909	5.500363	62.80844	1.119676	-5.15755	-1.72004
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.847290	-.298463	1.576854	1.436789	-1.85416	-3.06979	-4.43111
SDEV	2.124294	.597403	.617531	1.518994	1.26013	5.03998	1.77844
%RSD	250.7163	200.1600	39.16222	105.7215	67.96255	164.1800	40.13525
#1	-.452582	-.397791	1.000316	3.075521	-2.54203	-3.94470	-2.95366
#2	-3.14126	-.839976	2.228506	1.158958	-.399790	2.350366	-6.40503
#3	1.051968	.3423789	1.501739	.0758868	-2.62066	-7.61503	-3.93465
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.4536170	1.743845	1.044150	1.741839	10.14161	3038.955
SDEV	3.279618	2.307727	.881799	1.825554	.65691	12.034
%RSD	722.9928	132.3356	84.45142	104.8062	6.477343	.3959841
#1	3.629109	3.467247	.6916871	2.194378	9.554822	3025.266
#2	-2.92105	-.877975	2.047664	-.267421	10.01873	3047.867
#3	.6527915	2.642262	.3930976	3.298559	10.85128	3043.733
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103066-07 OPERATOR:
RUN TIME: 03/23/11 07:45:50
COMMENT: SDG:1103066 CLIENTID:DLX-PW-DUP1 1:1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5165536	.5624311	19.54540	-.087846	92140.83	-.151214	.4648299
SDEV	.2310554	1.494519	.19326	.014472	3120.40	.058731	.3673919
%RSD	44.73020	265.7249	.9887985	16.47388	3.386555	38.83978	79.03792
#1	.2739840	2.282405	19.76183	-.086118	95623.91	-.109812	.2671472
#2	.5416269	-.419439	19.48427	-.103104	91198.04	-.125399	.8887373
#3	.7340497	-.175672	19.39008	-.074316	89600.53	-.218432	.2386052
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0031656	17.61664	-10.7296	2724.882	15780.23	.5589500	22727.47
SDEV	.3626715	.25112	1.7048	34.883	182.11	.0409020	271.63
%RSD	11456.51	1.425484	15.88891	1.280157	1.154009	7.317648	1.195160
#1	-.288269	17.33415	-10.4632	2764.684	15987.80	.5133239	23027.89
#2	.4093249	17.70123	-12.5519	2710.338	15705.54	.5711958	22655.34
#3	-.111559	17.81455	-9.17368	2699.625	15647.33	.5923303	22499.19
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9487858	-1.76143	5.548540	61.50962	.3591111	-2.02097	-.381497
SDEV	.4050499	4.09867	.081834	.61460	.2345583	1.31116	1.692443
%RSD	42.69140	232.6900	1.474867	.9991881	65.31635	64.87769	443.6315
#1	1.123295	.9717469	5.642487	62.21185	.4050919	-3.25145	-2.28610
#2	.4857315	.2180871	5.510360	61.24729	.1049673	-.641808	.9499071
#3	1.237330	-6.47413	5.492775	61.06972	.5672742	-2.16965	.1917044
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0507198	-1.59504	1.328657	2.244792	-1.69672	-2.74679	-1.66264
SDEV	.9081249	1.16477	.313236	2.806502	1.94562	1.13997	2.50255
%RSD	1790.476	73.02498	23.57536	125.0228	114.6696	41.50190	150.5160
#1	-.794873	-.785982	.9936037	.7464601	-3.80420	-1.46751	-4.14617
#2	-.063533	-2.93003	1.614171	5.482473	-1.31699	-3.65497	.8584995
#3	1.010564	-1.06909	1.378197	.5054438	.0310473	-3.11789	-1.70026
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	.5530832	3.687037	.6326684	3.946007	10.06590	3014.955
SDEV	2.168219	.795866	.2822070	3.215258	.49654	29.595
%RSD	392.0240	21.58552	44.60583	81.48132	4.932939	.9815965
#1	.9011260	4.196224	.9493792	.5262663	9.873649	2981.000
#2	2.526228	4.094976	.4078938	4.404111	9.694231	3035.266
#3	-1.76810	2.769911	.5407321	6.907642	10.62983	3028.600
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/23/11 07:53:02
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.81248	2.923192	Q-.516304	5.099989	1.596394	5.293780	54.45213
SDEV	.58367	1.869811	.012744	.013265	.308266	.096148	.10708
%RSD	5.398115	63.96471	2.468358	.2600984	19.31016	1.816251	.1966570
#1	11.21638	5.082215	Q-.506747	5.114000	1.500501	5.402893	54.56632
#2	10.14328	1.856304	Q-.511392	5.098342	1.347471	5.256982	54.35396
#3	11.07778	1.831057	Q-.530774	5.087624	1.941210	5.221466	54.43610
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.78036	26.39827	-1.32200	7.413289	-1.94532	15.51406	77.94284
SDEV	.36838	.41167	6.09074	4.888098	1.95591	.09732	183.9367
%RSD	3.417117	1.559444	460.7207	65.93697	100.5443	.6273035	235.9892
#1	11.18934	26.81373	.5927744	6.787290	-1.99847	15.51677	66.45541
#2	10.47461	25.99051	-8.14005	12.58423	-3.87411	15.41541	267.3540
#3	10.67713	26.39058	3.581268	2.868347	.0366230	15.60999	-99.9809
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	43.97218	30.41259	54.38291	60.12737	10.49303	35.43129	65.77852
SDEV	.20849	.93438	.16059	.12761	.50621	3.72740	.38065
%RSD	.4741316	3.072343	.2953000	.2122390	4.824296	10.52009	.5786777
#1	44.19819	29.35706	54.55444	60.00378	10.17269	38.38199	65.33900
#2	43.93101	30.74682	54.35815	60.25866	10.22978	36.66953	65.99541
#3	43.78736	31.13389	54.23613	60.11967	11.07663	31.24235	66.00114
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	11.48785	7.463335	11.99958	67.27312	65.02831	30.84163	37.71867
SDEV	1.95265	3.229688	1.85420	2.62029	1.56498	3.28055	4.17795
%RSD	16.99752	43.27406	15.45219	3.895002	2.406612	10.63676	11.07662
#1	Q13.70508	4.580800	12.95843	68.13011	63.94151	31.96855	41.57990
#2	10.02463	10.95378	9.862296	64.33164	66.82204	33.41018	38.29274
#3	10.73383	6.855423	13.17803	69.35761	64.32139	27.14615	33.28336
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	55.03742	56.99450	53.87351	60.20034	53.71304	3032.200
SDEV	.78004	3.21766	.42644	7.53378	.47485	5.476
%RSD	1.417291	5.645561	.7915550	12.51452	.8840495	.1806088
#1	55.58355	57.57280	53.45980	66.21049	54.26075	3036.066
#2	54.14406	59.88379	53.84912	51.74857	53.46130	3034.600
#3	55.38466	53.52690	54.31163	62.64196	53.41706	3025.933
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/23/11 08:00:03
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.1850919	276708.8	2.535099	.6568259	265167.5	2.942170	5.747059
SDEV	.2235943	365.6	.042733	.0150171	1394.9	.032615	.221969
%RSD	120.8018	.1321099	1.685664	2.286310	.5260271	1.108522	3.862305
#1	.4004625	276925.5	2.578912	.6575637	266658.2	2.963607	5.987542
#2	.2007193	276914.3	2.493535	.6414535	263894.0	2.904636	5.550030
#3	-.045906	276286.8	2.532850	.6714604	264950.2	2.958266	5.703606
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	48.34793	24.13454	104970.3	13.08284	278396.9	26.05689	843.7362
SDEV	.13210	.17787	235.6	2.85375	743.3	.02299	103.9466
%RSD	.2732183	.7369926	.2244610	21.81294	.2669844	.0882228	12.31979
#1	48.49130	24.01532	105240.8	15.38279	279232.4	26.07450	831.3176
#2	48.23116	24.33898	104809.7	9.889199	277809.0	26.06529	746.5568
#3	48.32133	24.04931	104860.3	13.97653	278149.4	26.03088	953.3342
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.86551	-1.20724	.5098863	36.75007	15.55925	-2.99496	2.577707
SDEV	.43462	3.95587	.1229509	.08721	.56916	2.59458	1.820233
%RSD	1.900753	327.6781	24.11340	.2373059	3.658020	86.63170	70.61441
#1	22.63742	-2.51254	.5018267	36.77710	15.08283	-5.40867	4.101637
#2	23.36669	3.236321	.3911634	36.82056	15.40539	-3.32510	3.069327
#3	22.59242	-4.34551	.6366687	36.65254	16.18952	-.251105	.5621571
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5015354	7.890035	19.38290	8.854377	-.560086	-7.93498	-.532811
SDEV	.8924207	2.998526	.89466	1.631972	2.100655	5.64327	1.186427
%RSD	177.9377	38.00396	4.615697	18.43124	375.0593	71.11890	222.6733
#1	-.298600	7.019989	19.10298	9.270068	1.517111	-12.5335	-1.85575
#2	1.463966	5.422745	20.38405	10.23830	-.513931	-9.63401	-.179518
#3	.3392407	11.22737	18.66167	7.054761	-2.68344	-1.63739	.4368401
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-10.6903	9.461170	-1.03341	-17.0885	-4.95631	2929.933
SDEV	3.0740	2.700388	.75207	3.1631	.77695	14.005
%RSD	28.75474	28.54179	72.77505	18.51029	15.67587	.4779954
#1	-12.5827	12.57881	-1.82547	-15.9495	-5.80782	2914.933
#2	-7.14344	7.853938	-.329021	-14.6526	-4.28593	2942.666
#3	-12.3448	7.950765	-.945746	-20.6634	-4.77518	2932.200
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/23/11 08:07:03
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	215.7706	274370.5	556.1828	529.2396	265412.2	1062.300	540.3708
SDEV	1.2615	8751.0	18.7321	17.8386	11597.6	34.520	17.2308
%RSD	.5846456	3.189475	3.367979	3.370611	4.369646	3.249512	3.188705
#1	214.9385	268970.0	544.7136	518.0432	256961.8	1040.691	529.7919
#2	217.2221	284467.1	577.7993	549.8110	Q278634.5	1102.111	560.2536
#3	215.1513	269674.4	546.0355	519.8647	260640.5	1044.098	531.0668
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	587.0325	557.1246	104663.1	21.60619	277436.1	565.5932	1046.004
SDEV	19.6144	3.2878	3553.1	7.50185	9142.7	18.7411	54.492
%RSD	3.341274	.5901331	3.394775	34.72082	3.295435	3.313521	5.209494
#1	574.7136	554.0977	102393.7	29.93793	271509.2	553.8718	1107.516
#2	609.6513	560.6224	108757.8	19.49318	287965.4	587.2078	1026.719
#3	576.7328	556.6537	102837.8	15.38746	272833.5	555.7001	1003.778
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1104.376	113.0705	549.5201	1120.844	69.55926	55.92917	667.6784
SDEV	35.835	2.4962	17.9429	39.580	1.20085	4.43546	17.8068
%RSD	3.244854	2.207657	3.265203	3.531235	1.726372	7.930497	2.666975
#1	1081.025	110.4887	538.2325	1095.850	68.73202	51.27225	654.0344
#2	1145.636	113.2517	570.2103	1166.477	70.93663	60.10375	687.8220
#3	1086.467	115.4712	540.1176	1100.204	69.00915	56.41153	661.1788
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	108.3406	62.58743	73.03555	671.9660	665.5347	44.61037	61.57591
SDEV	3.8038	1.41768	1.15978	13.6653	19.8830	6.25432	3.88946
%RSD	3.510934	2.265127	1.587964	2.033626	2.987527	14.01989	6.316531
#1	104.6258	61.22182	72.47734	662.0176	650.0458	39.53183	57.12949
#2	112.2275	64.05200	74.36888	687.5474	687.9559	51.59632	64.34680
#3	108.1685	62.48848	72.26044	666.3330	658.6026	42.70297	63.25143
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1017.522	1071.974	1029.708	1039.231	1050.843	2887.755
SDEV	32.496	35.932	34.819	34.752	34.566	76.661
%RSD	3.193644	3.351933	3.381445	3.343982	3.289355	2.654705
#1	994.3637	1049.958	1006.697	1019.222	1026.910	2929.933
#2	1054.670	1113.438	1069.765	1079.359	1090.472	2799.267
#3	1003.533	1052.525	1012.660	1019.113	1035.147	2934.066
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV OPERATOR:
RUN TIME: 03/23/11 08:14:04
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	93.25371	49027.82	967.2031	960.6034	49455.77	953.0478	953.4708
SDEV	.35340	527.77	9.4655	8.7331	222.92	9.2022	9.0789
%RSD	.3789656	1.076467	.9786466	.9091286	.4507486	.9655528	.9521952
#1	93.65946	49339.14	972.4395	965.6585	49310.62	959.0856	959.5487
#2	93.01323	49325.87	972.8934	965.6324	49344.24	957.6012	957.8292
#3	93.08843	48418.46	956.2764	950.5193	49712.44	942.4567	943.0345
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	970.2183	962.5736	24222.37	48054.54	48569.93	952.3473	50038.23
SDEV	9.7313	4.2893	240.75	411.82	461.63	8.8214	400.17
%RSD	1.003000	.4456082	.9938956	.8569910	.9504467	.9262747	.7997380
#1	975.7852	965.4144	24373.42	48306.16	48856.60	957.7923	50226.73
#2	975.8881	964.6668	24348.94	48278.18	48815.79	957.0800	50309.35
#3	958.9818	957.6396	23944.74	47579.29	48037.41	942.1696	49578.62
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	965.3066	972.1777	973.4435	1035.304	961.9551	975.4845	1008.077
SDEV	8.3625	7.2242	9.1974	10.764	10.3984	9.2728	10.651
%RSD	.8663068	.7430912	.9448313	1.039685	1.080969	.9505818	1.056548
#1	971.2980	971.1096	978.7593	1041.892	968.3187	983.5297	1016.297
#2	968.8689	979.8765	978.7479	1041.137	967.5913	977.5808	1011.890
#3	955.7527	965.5471	962.8232	1022.882	949.9554	965.3430	996.0449
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	969.9487	957.8240	964.0122	1010.003	1007.112	965.9251	980.2530
SDEV	8.7643	13.6699	9.5771	7.233	12.827	16.4773	5.7407
%RSD	.9035835	1.427182	.9934626	.7161666	1.273689	1.705852	.5856334
#1	975.4348	970.5240	967.2115	1012.269	1018.305	981.1829	984.6973
#2	974.5705	959.5919	971.5800	1015.832	1009.919	968.1398	982.2902
#3	959.8409	943.3563	953.2449	1001.908	993.1143	948.4524	973.7716
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	968.3281	968.2586	983.6174	979.9149	1011.638	3034.489
SDEV	9.6844	6.9909	8.7449	10.3369	8.535	15.826
%RSD	1.000116	.7220048	.8890522	1.054873	.8436845	.5215303
#1	972.3940	972.6094	985.4911	984.6846	1015.713	3026.266
#2	975.3167	971.9717	991.2734	987.0057	1017.372	3024.467
#3	957.2736	960.1946	974.0875	968.0544	1001.829	3052.733
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB OPERATOR:
RUN TIME: 03/23/11 08:21:05
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3924778	9.971797	-.319934	.0045997	4.391706	-.004637	.5201974
SDEV	.1103057	3.784621	.072636	.0404906	.231570	.107289	.2445420
%RSD	28.10496	37.95325	22.70355	880.2914	5.272899	2313.740	47.00946
#1	.4763262	14.00170	-.240963	.0469397	4.124466	.0460847	.7280642
#2	.4335862	9.420848	-.334950	.0006048	4.533187	.0678868	.2507517
#3	.2675208	6.492848	-.383889	-.033745	4.517467	-.127883	.5817763
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2836669	-.303845	7.492367	12.93010	9.591246	-.217335	156.4065
SDEV	.3650854	.243679	5.603641	8.82329	3.689774	.067362	130.6457
%RSD	128.7022	80.19823	74.79133	68.23835	38.47023	30.99432	83.52956
#1	.7021833	-.111595	13.94635	22.74657	13.43775	-.146957	298.0166
#2	.1182310	-.577900	3.864922	10.38366	9.254731	-.223841	130.6375
#3	.0305863	-.222040	4.665829	5.660073	6.081256	-.281208	40.56555
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.6270942	.0657095	.1826583	-.091432	.1543613	-4.83806	-.365973
SDEV	.7407281	1.619497	.3713045	.075094	.8851718	1.96357	.582216
%RSD	118.1207	2464.633	203.2782	82.13106	573.4415	40.58590	159.0874
#1	1.436703	1.902144	.5722074	-.049565	1.093759	Q-7.10445	-.816639
#2	.4612009	-.546891	.1429828	-.046604	.0334860	-3.76165	-.572669
#3	-.016621	-1.15812	-.167215	-.178126	-.664161	-3.64808	.2913910
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.051560	-1.94081	1.196337	.5475116	-.826066	-2.92367	-5.79786
SDEV	.573538	.33602	1.202539	2.520138	1.448142	4.12972	1.44748
%RSD	1112.373	17.31341	100.5184	460.2894	175.3058	141.2515	24.96581
#1	-.325242	-1.76335	2.516125	2.472953	-2.46301	-7.11064	-7.10540
#2	-.436993	-1.73072	.9102318	-2.30481	.2880696	-2.80669	-4.24245
#3	.6075550	-2.32835	.1626535	1.474395	-.303254	1.146326	-6.04572
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.363002	1.618995	-.410273	4.471785	.9410809	3016.600
SDEV	1.750892	2.756583	.843061	1.572566	.7519834	5.587
%RSD	482.3367	170.2651	205.4880	35.16640	79.90635	.1852178
#1	.1861244	4.350809	.5143118	6.201505	1.743697	3010.467
#2	-2.32264	1.667883	-.608728	4.085480	.2528336	3017.933
#3	1.047507	-1.16171	-1.13640	3.128370	.8267117	3021.400
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

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METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-04RE1 OPERATOR:
RUN TIME: 03/23/11 09:18:16
COMMENT: SDG:1103082 CLIENTID:IP-01 1:4
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0038509	229.5598	48.08991	-.055158	68190.77	-.186689	.2899700
SDEV	.4587505	5.6644	.55403	.021266	1381.86	.114529	.2674854
%RSD	11912.92	2.467493	1.152075	38.55431	2.026455	61.34761	92.24589
#1	-.225686	229.7293	48.22645	-.073884	69333.77	-.299697	.0159926
#2	.5320642	235.1375	48.56290	-.032039	68583.47	-.070697	.5504526
#3	-.294826	223.8125	47.48037	-.059551	66655.06	-.189674	.3034648
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.201315	1.320786	235.5602	8212.745	1617.399	25.03700	121314.2
SDEV	.364520	.279983	2.4478	80.003	18.624	.26814	1047.7
%RSD	30.34343	21.19817	1.039135	.9741350	1.151476	1.070983	.8636120
#1	1.012942	1.436277	236.1339	8229.575	1619.368	25.10053	121631.9
#2	1.621479	1.524549	237.6701	8282.994	1634.961	25.26768	122166.3
#3	.9695231	1.001532	232.8765	8125.666	1597.869	24.74280	120144.4
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.558357	-.029713	4.400235	2.286815	1.399822	-3.57023	-1.20182
SDEV	.424506	1.804428	.297687	.199472	.669077	1.73844	1.06739
%RSD	16.59291	6072.775	6.765254	8.722693	47.79732	48.69273	88.81479
#1	2.414600	-2.04430	4.288370	2.189410	2.160656	-1.56963	-2.37003
#2	3.036075	.5170955	4.737649	2.516274	.9031602	-4.42777	-.277434
#3	2.224396	1.438063	4.174685	2.154759	1.135649	-4.71328	-.957992
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.970028	-1.33990	2.763143	-.476991	-1.56767	-2.40651	-4.15519
SDEV	1.584845	.46176	1.098093	.624669	1.67591	5.13644	.66172
%RSD	163.3813	34.46242	39.74072	130.9603	106.9044	213.4392	15.92508
#1	-.809646	-1.59404	4.030689	-.601223	-3.25710	3.435034	-4.07221
#2	.5285276	-1.61876	2.157720	-1.03021	.0943820	-6.21625	-3.53888
#3	-2.62897	-.806893	2.101021	.2004594	-1.54030	-4.43832	-4.85449
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	1.157710	1.528823	.4849630	4.318219	7.924817	3056.022
SDEV	2.866624	2.970912	.5713892	5.610146	.048517	24.665
%RSD	247.6116	194.3268	117.8212	129.9181	.6122204	.8071111
#1	-2.06933	-1.52224	.8060612	.4104068	7.925787	3043.933
#2	2.133126	4.412510	-.174743	10.74655	7.972842	3039.733
#3	3.409337	1.696195	.8235709	1.797699	7.875822	3084.400
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

METHOD: ALT-P3Q1 SAMPLE NAME: 1103082-05RE1 OPERATOR:
RUN TIME: 03/23/11 09:25:17
COMMENT: SDG:1103082 CLIENTID:FDIP-01 1:4
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2481570	212.8667	49.18912	-.065049	68954.80	-.139744	.4696099
SDEV	.4104319	.8103	.12304	.067688	1365.59	.102818	.2275831
%RSD	165.3920	.3806689	.2501437	104.0581	1.980417	73.57630	48.46216
#1	.2238854	213.1128	49.25619	.0040225	67500.61	-.125454	.5264396
#2	.6701862	213.5255	49.26405	-.131264	69153.86	-.044818	.6633927
#3	-.149600	211.9619	49.04711	-.067905	70209.95	-.248960	.2189972
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	4000.000	400000.0	50000.00	5000.000	700000.0	30000.00	50000.00
LOW	-1000.00	-400000.	-50000.0	-4000.00	-400000.	-10000.0	-50000.0

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1.184532	1.536427	200.5303	9292.039	1279.095	18.71957	120617.2
SDEV	.160342	.125467	3.9627	22.228	2.493	.06037	85.0
%RSD	13.53634	8.166129	1.976104	.2392194	.1948765	.3224856	.0704506
#1	1.329408	1.481009	205.0499	9317.678	1280.371	18.74071	120675.0
#2	1.211934	1.680061	198.8893	9280.266	1280.692	18.76653	120656.9
#3	1.012255	1.448212	197.6517	9278.174	1276.223	18.65148	120519.6
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	700000.0	700000.0	700000.0	20000.00	250000.0
LOW	-60000.0	-60000.0	-700000.	-400000.	-300000.	-40000.0	-700000.

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	2.674468	-1.78682	4.805449	1.830601	.0455434	-3.70246	-.815232
SDEV	.164415	2.80551	.340472	.096138	.7960776	.71598	1.466522
%RSD	6.147580	157.0118	7.085128	5.251715	1747.954	19.33806	179.8901
#1	2.825479	-2.03909	5.074074	1.723633	.9647726	-2.88992	-.943499
#2	2.698606	1.136312	4.919737	1.858377	-.412444	-3.97656	-2.21341
#3	2.499318	-4.45767	4.422537	1.909793	-.415699	-4.24089	.7112103
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS
HIGH	60000.00	60000.00	50000.00	20000.00	60000.00	40000.00	40000.00
LOW	-60000.0	-60000.0	-50000.0	-10000.0	-60000.0	-30000.0	-40000.0

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2441680	-2.15673	1.140701	.0986739	-1.27550	-5.86892	-2.62485
SDEV	.8429845	1.20062	1.326863	2.331186	1.52867	3.25475	1.05533
%RSD	345.2478	55.66822	116.3199	2362.515	119.8491	55.45743	40.20532
#1	-.662065	-2.13713	2.508898	1.712503	-2.27351	-3.47677	-2.60093
#2	1.004984	-.966042	-.140551	-2.57401	-2.03737	-4.55469	-3.69193
#3	.3895851	-3.36703	1.053756	1.157528	.4843884	-9.57530	-1.58168
ERRORS	LC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
HIGH	20000.00						
LOW	-20000.0						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-.979124	1.718010	.8972608	8.615208	7.531956	3048.377
SDEV	.970813	2.318419	.0491452	2.935250	.431827	3.000
%RSD	99.15119	134.9479	5.477249	34.07056	5.733258	.0984228
#1	.0284610	.2878356	.8475323	8.342486	7.739856	3047.133
#2	-1.90843	4.392948	.8984489	11.67730	7.820507	3051.800
#3	-1.05741	.4732454	.9458012	5.825837	7.035505	3046.200
ERRORS	LC PASS	LC PASS	LC PASS	LC PASS	LC PASS	NOCHECK
HIGH	40000.00	40000.00	20000.00	30000.00	40000.00	
LOW	-40000.0	-40000.0	-40000.0	-40000.0	-40000.0	

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METHOD: ALT-P3Q1 SAMPLE NAME: CRI OPERATOR:
RUN TIME: 03/23/11 09:33:00
COMMENT: CRI
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.90636	2.924571	Q-.508551	4.969363	1.768868	5.144560	53.17694
SDEV	.46315	1.705413	.027841	.028303	.106185	.067753	.19803
%RSD	4.246592	58.31328	5.474662	.5695460	6.003011	1.316993	.3723981
#1	10.59312	2.251758	Q-.534482	4.988974	1.699108	5.119511	53.28753
#2	10.68759	1.658190	Q-.512041	4.936917	1.891072	5.221272	52.94831
#3	11.43837	4.863765	Q-.479129	4.982199	1.716425	5.092899	53.29496
ERRORS	QC PASS	NOCHECK	QC FAIL	QC PASS	NOCHECK	QC PASS	QC PASS
VALUE	10.00000		50.00000	5.000000		5.000000	50.00000
RANGE	3.000000		15.00000	1.500000		1.500000	15.00000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.54748	25.86986	1.425154	6.311009	-2.71018	15.16842	74.40341
SDEV	.17950	.58049	2.211432	2.390033	1.80153	.07367	16.31546
%RSD	1.701869	2.243902	155.1714	37.87087	66.47244	.4857120	21.92838
#1	10.68895	26.34917	3.879283	8.821797	-.806920	15.18918	83.29802
#2	10.60794	25.22441	.8091321	6.047691	-4.38892	15.08660	55.57352
#3	10.34555	26.03601	-.412952	4.063538	-2.93471	15.22949	84.33869
ERRORS	QC PASS	QC PASS	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE	10.00000	25.00000				15.00000	
RANGE	3.000000	7.500000				4.500000	

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	42.41045	24.22301	53.04588	57.03674	11.85793	33.83216	63.50185
SDEV	.15223	3.19093	.27150	.09752	.82861	.60475	.48424
%RSD	.3589504	13.17314	.5118215	.1709727	6.987826	1.787509	.7625651
#1	42.58205	20.54687	53.24426	57.12600	12.64741	33.42670	63.05230
#2	42.35768	25.84543	52.73646	56.93266	10.99507	34.52726	63.43867
#3	42.29163	26.27673	53.15692	57.05155	11.93130	33.54251	64.01458
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	40.00000	25.00000	50.00000	60.00000	10.00000	35.00000	60.00000
RANGE	12.00000	12.50000	15.00000	18.00000	5.000000	10.50000	30.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	10.87336	9.182864	13.18839	63.39853	63.54938	31.22798	35.12824
SDEV	1.15787	2.091812	1.33804	2.43761	1.94017	4.70537	1.96779
%RSD	10.64866	22.77952	10.14557	3.844895	3.053019	15.06782	5.601744
#1	11.74600	8.540358	14.69277	65.46167	61.84534	25.79468	37.23291
#2	9.559808	7.487669	12.74110	64.02513	63.14185	33.93780	34.81750
#3	11.31426	11.52057	12.13129	60.70879	65.66095	33.95144	33.33430
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	10.00000						
RANGE	3.000000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	52.38917	54.53203	52.37821	61.31015	52.37548	3005.600
SDEV	1.06035	.52092	.37901	3.25746	.45189	15.216
%RSD	2.023980	.9552474	.7236027	5.313081	.8627835	.5062461
#1	53.12285	54.06391	52.43485	63.78752	52.06256	2990.800
#2	51.17344	54.43898	52.72571	57.62034	52.89355	3021.200
#3	52.87123	55.09320	51.97406	62.52259	52.17033	3004.800
ERRORS	NOCHECK	QC PASS	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE		50.00000			50.00000	
RANGE		15.00000			15.00000	

ANALYSIS REPORT QC STANDARD 03/23/11 09:46:57 AM PAGE 1

METHOD: ALT-P3Q1 SAMPLE NAME: ICSA OPERATOR:
RUN TIME: 03/23/11 09:40:00
COMMENT: ICSA
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.3598230	268888.7	2.504505	.6541062	258938.2	2.826175	5.789907
SDEV	.2661828	709.1	.064783	.0136249	2449.1	.103016	.163238
%RSD	73.97606	.2637045	2.586655	2.082986	.9458075	3.645081	2.819362
#1	.3252770	269258.1	2.554074	.6645836	261074.1	2.762323	5.957989
#2	.1125997	268071.2	2.528240	.6387035	259475.4	2.945018	5.779746
#3	.6415921	269336.9	2.431203	.6590315	256265.2	2.771184	5.631987
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	244100.0	2.000000	.0000000	234900.0	.0000000	4.000000
RANGE	20.00000	48820.00	400.0000	10.00000	46980.00	10.00000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	47.54543	23.48550	102630.4	12.59071	272371.2	25.34517	788.9108
SDEV	.36469	.20007	113.4	14.26492	180.8	.03021	278.0980
%RSD	.7670377	.8518934	.1105263	113.2972	.0663873	.1191993	35.25087
#1	47.23975	23.39344	102672.0	17.36548	272462.3	25.37167	913.3362
#2	47.44742	23.34802	102502.0	23.85577	272163.0	25.31227	983.0714
#3	47.94910	23.71503	102717.1	-3.44911	272488.4	25.35156	470.3250
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	43.00000	23.00000	95600.00	.0000000	247500.0	19.00000	.0000000
RANGE	20.00000	50.00000	19120.00	2000.000	495500.0	30.00000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	22.58262	.4827805	.6762857	35.63817	15.22413	-5.19256	2.592299
SDEV	.34971	6.340509	.0650999	.19596	1.38386	3.28346	.620591
%RSD	1.548559	1313.332	9.626094	.5498553	9.089893	63.23406	23.93978
#1	22.88061	-4.62231	.6263335	35.76678	13.64160	-2.72209	2.216503
#2	22.66963	-1.50951	.7499093	35.41263	15.82371	-8.91852	3.308605
#3	22.19763	7.580167	.6526142	35.73507	16.20710	-3.93706	2.251787
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	21.00000	.0000000	.0000000	28.00000	10.00000	.0000000	.0000000
RANGE	80.00000	50.00000	100.0000	120.0000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	-.615667	11.49154	17.08244	7.641910	.0671217	-13.1131	-1.24238
SDEV	1.630405	3.39620	3.51511	5.195626	3.516173	1.7262	5.03363
%RSD	264.8193	29.55392	20.57735	67.98857	5238.501	13.16365	405.1592
#1	-2.45527	13.98106	13.46690	9.963834	-1.65553	-11.6578	1.734913
#2	.6507090	12.87087	17.29274	1.690225	4.112443	-12.6612	-7.05414
#3	-.042439	7.622681	20.48768	11.27167	-2.25555	-15.0203	1.592073
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	20.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-10.0996	9.776107	-.651531	-12.8973	-4.59930	2935.178
SDEV	1.7823	4.813641	.521988	6.8577	.78379	14.221
%RSD	17.64746	49.23883	80.11712	53.17119	17.04147	.4845190
#1	-11.1821	11.32143	-1.21840	-19.0188	-5.50323	2919.600
#2	-11.0743	13.62731	-.545469	-14.1866	-4.18615	2947.467
#3	-8.04251	4.379581	-.190719	-5.48653	-4.10852	2938.467
ERRORS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC PASS	NOCHECK
VALUE					.0000000	
RANGE					200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: ICSAB OPERATOR:
RUN TIME: 03/23/11 09:47:00
COMMENT: ICSAB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	209.9837	263106.1	533.2745	506.9267	252088.3	1017.934	518.2543
SDEV	1.1208	1175.5	1.9931	1.2483	1996.8	.788	.8643
%RSD	.5337440	.4467719	.3737433	.2462418	.7920874	.0773941	.1667679
#1	208.7696	261814.1	531.0279	505.5134	251310.2	1017.357	517.7153
#2	210.9788	264112.5	534.8303	507.3881	254357.0	1018.832	517.7964
#3	210.2028	263391.6	533.9652	507.8785	250597.8	1017.613	519.2512
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	206.0000	241100.0	495.0000	475.0000	231100.0	940.0000	461.0000
RANGE	41.20000	48220.00	400.0000	95.00000	46220.00	188.0000	100.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	563.2593	542.4623	100522.1	12.04521	265928.8	542.4111	830.6501
SDEV	.9364	3.6776	141.8	11.86349	594.8	.9536	110.2346
%RSD	.1662399	.6779428	.1410292	98.49129	.2236606	.1758140	13.27088
#1	562.1782	538.8873	100359.5	23.12799	265243.9	541.3129	920.6584
#2	563.7836	546.2345	100620.1	-.469072	266227.4	543.0307	707.7002
#3	563.8160	542.2650	100586.6	13.47671	266315.2	542.8896	863.5916
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	511.0000	548.0000	94800.00	.0000000	251100.0	502.0000	.0000000
RANGE	102.2000	109.6000	18960.00	2000.000	50220.00	100.4000	2000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	1059.938	105.6438	526.2044	1072.859	67.39515	51.68341	646.4465
SDEV	1.871	3.8122	.4984	2.909	.60967	3.90662	1.6888
%RSD	.1765031	3.608533	.0947202	.2711893	.9046177	7.558754	.2612461
#1	1058.238	101.3316	525.6459	1069.598	67.61799	48.48461	645.8030
#2	1059.632	107.0339	526.3633	1075.190	67.86205	56.03735	648.3624
#3	1061.942	108.5659	526.6039	1073.788	66.70541	50.52828	645.1739
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	984.0000	103.0000	494.0000	1028.000	61.00000	53.00000	589.0000
RANGE	196.8000	50.00000	99.99999	205.6000	20.00000	70.00000	120.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	101.4782	60.36414	70.89951	645.7313	646.8005	45.35960	54.83645
SDEV	2.3532	2.15349	.90327	1.1242	2.1824	5.74598	2.99861
%RSD	2.318896	3.567496	1.274010	.1740969	.3374179	12.66762	5.468282
#1	98.76942	62.72571	70.05524	644.5493	646.4259	40.94570	52.24426
#2	102.6475	59.85770	71.85202	646.7870	649.1460	51.85659	58.12053
#3	103.0177	58.50900	70.79125	645.8575	644.8297	43.27652	54.14457
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	101.0000						
RANGE	20.20000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	973.9570	1021.939	987.6005	992.2248	1009.304	2935.778
SDEV	3.7106	2.849	4.5887	3.4772	2.780	11.093
%RSD	.3809859	.2787657	.4646335	.3504414	.2754572	.3778493
#1	974.8558	1019.715	982.3402	992.3102	1006.423	2926.066
#2	969.8795	1025.150	990.7813	995.6585	1011.971	2947.867
#3	977.1357	1020.952	989.6801	988.7057	1009.516	2933.400
ERRORS	QC PASS	NOCHECK	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000		1000.000	1000.000	1000.000	
RANGE	200.0000		200.0000	2000.000	200.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCV1 OPERATOR:
RUN TIME: 03/23/11 09:54:01
COMMENT: CCV CVS1
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	92.84193	49148.67	971.4621	962.2018	47936.92	955.2963	956.1703
SDEV	.39134	211.10	4.8664	5.6198	1110.63	6.0925	4.1633
%RSD	.4215100	.4295100	.5009382	.5840607	2.316854	.6377650	.4354163
#1	92.39127	49332.16	975.5353	966.1719	47853.90	959.2120	958.6879
#2	93.03859	48917.96	966.0731	955.7714	49086.73	948.2769	951.3647
#3	93.09595	49195.89	972.7780	964.6623	46870.13	958.4000	958.4583
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	100.0000	50000.00	1000.000	1000.000	50000.00	1000.000	1000.000
RANGE	10.40000	5200.000	104.0000	104.0000	5200.000	104.0000	104.0000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	974.1237	958.7541	24348.33	48238.41	48773.54	955.2452	49863.44
SDEV	5.8755	1.4746	124.01	238.38	266.06	5.5538	289.41
%RSD	.6031569	.1538033	.5093152	.4941641	.5455066	.5814026	.5804002
#1	976.8289	957.9758	24429.73	48455.02	48936.52	959.4528	50135.65
#2	967.3829	960.4548	24205.61	47983.02	48466.51	948.9501	49559.46
#3	978.1594	957.8318	24409.66	48277.18	48917.59	957.3326	49895.23
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	25000.00	50000.00	50000.00	1000.000	50000.00
RANGE	104.0000	104.0000	2600.000	5200.000	5200.000	104.0000	5200.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	969.6180	970.9122	976.2770	1037.728	963.0413	972.2534	1009.109
SDEV	5.3967	4.6904	5.2598	6.534	3.6188	7.7329	4.865
%RSD	.5565755	.4830916	.5387608	.6296775	.3757663	.7953536	.4821099
#1	971.9169	974.8214	979.7889	1042.324	964.1119	973.2531	1012.823
#2	963.4526	965.7113	970.2297	1030.248	959.0080	964.0693	1003.601
#3	973.4846	972.2040	978.8123	1040.612	966.0040	979.4377	1010.901
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	1000.000	1000.000	1000.000	1100.000	1000.000	1000.000	1000.000
RANGE	104.0000	104.0000	104.0000	114.0000	104.0000	104.0000	104.0000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	972.0947	958.4076	965.3496	1005.833	1010.740	966.7145	975.0146
SDEV	4.6166	8.0532	1.9359	2.322	6.140	11.5993	5.9461
%RSD	.4749164	.8402692	.2005425	.2308054	.6075214	1.199869	.6098459
#1	972.3741	963.2306	964.5469	1007.780	1015.337	970.2982	974.7242
#2	967.3447	949.1108	963.9442	1003.264	1003.766	953.7463	969.2191
#3	976.5652	962.8815	967.5578	1006.457	1013.116	976.0991	981.1006
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	1000.000						
RANGE	104.0000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	970.4540	968.1047	989.1351	984.5428	1015.481	3018.444
SDEV	7.3893	5.5557	3.8984	7.4506	5.207	19.310
%RSD	.7614310	.5738750	.3941262	.7567547	.5127692	.6397501
#1	972.3066	973.3061	990.3268	982.1937	1017.891	3003.333
#2	962.3146	962.2521	984.7800	978.5499	1009.505	3040.200
#3	976.7407	968.7560	992.2987	992.8848	1019.046	3011.800
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	1000.000	1000.000	1000.000	1000.000	1000.000	
RANGE	104.0000	104.0000	104.0000	104.0000	104.0000	

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METHOD: ALT-P3Q1 SAMPLE NAME: CCB1 OPERATOR:
RUN TIME: 03/23/11 10:01:02
COMMENT: CCB
MODE: CONC CORR. FACTOR: 1

ELEM	AG3280	AL3082	BA4934	BE3130	CA3179	CD2265	CO2286
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.0941417	12.59289	-.365668	.0796209	4.648521	.0382013	.4691754
SDEV	.1932820	2.51702	.050608	.0321235	.209279	.0416243	.0581762
%RSD	205.3097	19.98764	13.84000	40.34560	4.502064	108.9606	12.39968
#1	-.109796	11.64202	-.366565	.0622805	4.588191	-.009466	.4946433
#2	.2746283	10.68982	-.415822	.0598938	4.881338	.0567023	.4026083
#3	.1175928	15.44683	-.314617	.1166883	4.476033	.0673678	.5102747
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	200.0000	200.0000	5.000000	5000.000	5.000000	5.000000

ELEM	CR2677	CU3247	FE2714	K_7664	MG2790	MN2576	NA3302
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.2036303	-.334282	.9889677	9.214811	6.085995	-.206477	25.71513
SDEV	.2573189	.144756	3.619839	6.241347	2.044418	.038390	116.4069
%RSD	126.3657	43.30358	366.0220	67.73169	33.59217	18.59314	452.6789
#1	-.085646	-.167260	.0080397	13.31095	5.590059	-.244632	91.94093
#2	.4070256	-.423455	-2.03931	2.031505	4.335168	-.167855	-108.695
#3	.2895114	-.412132	4.998177	12.30199	8.332757	-.206943	93.89974
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	5.000000	5.000000	100.0000	5000.000	5000.000	10.00000	5000.000

ELEM	NI2316	TL1908	V_2924	ZN2138	PB2203	SE1960	SB2068
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.5181934	2.400815	.0549616	-.022760	.1084663	-.171413	.9297854
SDEV	.3514391	.709864	.1546942	.149545	.5098587	1.309670	3.168478
%RSD	67.82007	29.56764	281.4586	657.0431	470.0618	764.0439	340.7752
#1	.4201213	1.601915	.0560300	.1184265	.5866512	-1.67790	4.575977
#2	.2262077	2.959094	-.100264	-.179455	.1667965	.4673250	-.632126
#3	.9082512	2.641435	.2091189	-.007253	-.428049	.6963344	-1.15450
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000	.0000000
RANGE	40.00000	10.00000	20.00000	20.00000	3.000000	5.000000	10.00000

ELEM	AS1890	22031	22032	20681	20682	19601	19602
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER
AVGE	.9484158	-2.28922	1.301501	1.349237	.7163658	-.592718	.0349158
SDEV	.6592748	1.16196	.585373	.853829	4.324194	3.314200	.9630067
%RSD	69.51326	50.75810	44.97675	63.28233	603.6294	559.1525	2758.086
#1	1.092610	-.985269	1.367430	2.333400	5.691582	-4.08067	-.482316
#2	1.523659	-3.21496	1.851119	.9080585	-1.40508	2.514917	-.558956
#3	.2289787	-2.66742	.6859550	.8062531	-2.13740	-.212403	1.146019
ERRORS	QC PASS	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK	NOCHECK
VALUE	.0000000						
RANGE	10.00000						

ELEM	SN1899	BI2230	MO2020	TI3349	B_2496	Y_3710
UNITS	UG/LITER	UG/LITER	UG/LITER	UG/LITER	UG/LITER	PPM
AVGE	-1.91709	2.550672	-.133858	.1187323	.3077963	3037.689
SDEV	1.51855	.507048	1.286148	1.379981	.6477669	7.298
%RSD	79.21108	19.87899	960.8301	1162.263	210.4531	.2402366
#1	-3.39190	2.621632	1.190219	.0526595	1.046194	3041.666
#2	-2.00110	3.018502	-.213409	-1.22703	.0419368	3029.266
#3	-.358284	2.011882	-1.37838	1.530562	-.164742	3042.133
ERRORS	QC PASS	QC PASS	QC PASS	QC PASS	QC PASS	NOCHECK
VALUE	.0000000	.0000000	.0000000	.0000000	.0000000	
RANGE	100.0000	50.00000	50.00000	40.00000	50.00000	

4. Digestion and Distillation Logs

The following logs shall be submitted, as appropriate, for each preparation procedure: digestion logs for ICP-AES, ICP-MS, mercury preparations, and cyanide. The logs shall include: (1) date; (2) sample weights and volumes, with initial sample weight/volume and final volume clearly indicated; (3) sufficient information to unequivocally identify which QC samples (i.e., LCS, PB) correspond to each batch digested; (4) comments describing any significant sample changes or reactions which occur during preparation shall be entered in the log and noted in the SDG Narrative; (5) indication of pH less than 2 or greater than 12, as applicable; (6) identification of the sample preparer(s) [signature (s)].

METALS/MERCURY PREPARATION LOG

Metals Method: ILM05.4 / HW1
Mercury Method: ILM05.4 / CW1
Prepared By: DDP
Case/SDG: 1103087

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

Preparation Date: 3-21-11
Preparation Time: 1100
Batch Number: 1032004
Green Water

COMPUCHEM SAMPLE ID	CLIENT SAMPLE ID	SAMPLE TYPE	ICP Initial (mL)	ICP Final (mL)	HG Initial (mL)	HG Final (mL)	*Description Before	*Description After ICP	pH
1032004-BLK1	PBW	MB	50	50			CS / CL	CS / CL	N/A
1032004-BS1	LCSW	LCSW	50				CS / CL	CS / CL	N/A
1032004-DUP1	MW-3D	DUP	50				CS / CY	CS / CY	<2
1032004-MS1	MW-3S	MS	50				CS / CY	CS / CY	<2
1103087-01	MW-3	SAMPLE	50				CS / CY	CS / CY	<2
1103087-02	MW-2	SAMPLE	50				CS / CL	CS / CL	<2
1103087-03	MW-8	SAMPLE	50				BR / CL	CS / CL	<2
1103087-04	MW-9	SAMPLE	50				CS / CL	CS / CL	<2
1103087-05	MW-12	SAMPLE	50				CS / CL	CS / CL	<2
1103087-06	MW-17	SAMPLE	50				CS / CL	CS / CL	<2

Mercury Standards and QC S0 S0.2 S0.5S1 S5 S10 ICV ICB CRI CCV CCB

NOTE: All standards and QC for mercury were prepared at the same day as the associated samples. Refer to the attached. Standard/QC Preparation Log, with date matching the above preparation date, for preparation method and instruction.

Record of Tempature/Time		
Hot Block Temp In:	95°	C
Hot Block Temp Out:	95°	C
Time Hg in water bath:		
Time Hg out water bath:		
Water Bath Temp In:		C
Water Bath Temp Out:		C

MS Reference
ICAP: 0.5 mL of ILM05.3 Matrix Spike
Ref #: OB23010

HG: 1.0mL 100ppb Hg
Ref#

LCS Reference
ICAP: 5.0 mL of ICV 0307
Ref #: OE20013

* R=red, BL=blue, Y=yellow, G=green, O=orange, V=violet, W=white, CS=colorless, BR=brown, BK=black
GY= grey, F=fine, M=medium, C=coarse, CL=clear, CY=cloudy, OP=opaque

"The presence of the Chemist's/analyst's employee ID number, or signature, on this log attests that strict compliance with the method's SOP has occurred. Any SOP deviations requires documentation by the chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation."

Sample Verification Signature: [signature]
This signature corroborates that the sample idenification numbers appearing on the digestion cups are the same as those appearing on the field sample containers.

Reviewed By: [signature]
Date: 03/24/11

Shading has been applied to unused portions of this worksheet as a substitute for 'Z-out.

Standards/QC Preparation Log for ICP Metals/Mercury Page 1 of 3 **Case/SDG:** 1103087

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

REAGENTS	REF#[1]	MANUFACTURER	LOT#	EXPIRATION DATE
SULFURIC ACID (H_2SO_4)	0H13010	CALEDON	74387	08/15
NITRIC ACID (HNO_3)	0L13008	JT BAKER	J45042	12/15
POTASSIUM PERMANGANATE ($KMnO_4$)	0F30018	JT BAKER	J16616	06/15
HYDROCHLORIC ACID (HCL)	0L21024	CALEDON	74606	12/15
POTASSIUM PERSULFATE ($K_2S_2O_8$)	0F30016	JT BAKER	H44465	06/15
HYDROGEN PEROXIDE (H_2O_2)	0I02006	CALEDON	72923	05/11
STANDARDS				
XCL 20R	0I15003	HIGH PURITY	1025219	09/13/11
XCL LCS 10XR	1C09011	HIGH PURITY	1105518	03/07/12
ERA PPT (540)	1A07001	ERA	D071-540	04/01/14
EPA LCS (0405)	0E20016	EPA	0405	05/17/15
ICV-1 (0307)	0E20013	EPA	0307	02/17/12
ILM05.3 MATRIX SPIKE	0B23010	HIGH PURITY	1004722	03/31/11
SILVER (Ag) 100ppm	0I16001	HIGH PURITY	1013221	12/14/11
TCLP 500	0L16002	HIGH PURITY	1034422	12/14/11
ARSENIC (As) 1000ppm	0L01020	HIGH PURITY	1021405	06/01/12
MERCURY (Hg) 20ppm	0F16001	HIGH PURITY	1015809	06/07/11
ICV-5 (0508) Hg	0E20020	EPA	0508	05/17/15

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log

[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

Pb 1000ppm	0L01019	HIGH PURITY	1026448	06/01/12

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-21-11

ENTERED BY: D. Dickens DATE: 3-21-11

REVIEWED BY: [illegible] DATE: 3/21/11

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 2 of 3 **Case/SDG:** 1103087

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS
Hg 100ppb-03-17-11-DD	Place in a 100mL volumetric flask: 0.5mL of 20ppm Hg stock solution 2.5mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 100mL volume with reagent water **(PREPARE DAILY)**
$K_2S_2O_8$- 03-02-11-DD Potassium Persulfate	Place in a 1000mL Erlenmeyer to a re-pipettor bottle **(PREPARE AS NEEDED)**
$KmnO_4$- 03-14-11 –DD Potassium Permanganate	Place in a 2000mL volumetric flask: 100.0g of $KmnO_4$ Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREARE AS NEEDED)**
HNO_3- 02-04-11 - JR Nitric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HNO_3 Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
HCl- 03-14-11 -DD Hydrochloric Acid	Place in a 2000mL volumetric flask: 500mL of Deionized water 1000mL of concentrated HCl Baker instra-analyzed Trace Metals grade or equivalent Dilute to 2000mL with reagent water **(PREPARE AS NEEDED)**
Aqua Regia- 03-17-11 - DD	Place in a 1000mL container: 600mL of Concentrated HCL 200mL of Concentrated HNO3 **(PREPARE AS NEEDED)**

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-21-11

ENTERED BY: D. Dickens DATE: 3-21-11

REVIEWED BY: [illegible] DATE: 3/21/11

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Standards/QC Preparation Log for ICP Metals/Mercury Page 3 of 3 **Case/SDG:** 1103087

COMPUCHEM a division of Liberty Analytical Corp. Worksheet 1Q (1) 2

STANDARD LOT NUMBER[2]	PREPARATION INSTRUCTIONS	Resultant Analyte Concentration
ICV-5- 03-17-11-DD	Pipet into a 300mL BOD Bottle 1.0mL of ICV-5 and 99mL of reagent water. Digest according to sample preparation instructions	4.0µg/L
S0/ICB/CCB- 03-17-11-DD	Pipet into a 300mL BOD Bottle 100mL of reagent water Digest according to sample preparation instructions	0.0µg/L
S0.2/CRA/CRI- 03-17-11-DD	Pipet into a 300mL BOD Bottle 0.2mL of Hg 100ppb and 99.8mL of reagent water Digest according to sample preparation instructions	0.2µg/L
S0.5- 03-17-11-DD	Pipet into a 300mL BOD Bottle 0.5mL of Hg 100ppb and 99.5mL of reagent water Digest according to sample preparation instructions	0.5µg/L
S1.0- 03-17-11-DD	Pipet into a 300mL BOD Bottle 1.0mL of Hg 100ppb and 99mL of reagent water Digest according to sample preparation instructions	1.0µg/L
S5.0/CCV 03-17-11-DD	Pipet into a 300mL BOD Bottle 5.0mL of Hg 100ppb and 95mL of reagent water Digest according to sample preparation instructions	5.0µg/L
S10.0- 03-17-11-DD	Pipet into a 300mL BOD Bottle 10mL of Hg 100ppb and 90mL of reagent water Digest according to sample preparation instructions	10.0µg/L

[1]Ref#=Logbook ID, Page number, and item number from Materials Receipt Log
[2]Standard Lot Number consist of standard ID, date prepared, and initials of preparer

STANDARD SOLUTIONS PREPARED BY: D. Dickens DATE: 3-21-11

ENTERED BY: D. Dickens DATE: 3-21-11

REVIEWED BY: [illegible] DATE: 3/21/11

The presence of the Chemist's/Analyst's employee ID number, or signature, on this worksheet attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Data Validation Report

USEPA CLP SOW SOM01.2 - VOLATILE ORGANIC ANALYSIS (VOA) DATA VALIDATION SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 16-17, 2011 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. Draper Aden Associates collected samples from surface water locations S-1, S-2, S-3, S-4, S-5 and S-6. Samples were analyzed for sixteen target analytes which included benzene, chlorobenzene; 1,4-dichlorobenzene; chloroethane, dichlorodifluoromethane; 1,1-dichloroethane; 1,2-dichloroethane; 1,1-dichloroethylene; cis-1,2-dichloroethylene; trans-1,2-dichloroethylene; 1,2-dichloropropane, tetrachloroethylene; 1,1,1-trichloroethane, trichloroethylene, methylene chloride, vinyl chloride. Samples were analyzed in general accordance with the requirements of the USEPA CLP Statement of Work (SOW) document number SOM01.2 using a 5 ml purge volume. The following information and attached table summarize the data validation results.

CompuChem, a Division of Liberty Analytical Corp., (CompuChem), of Cary, North Carolina, performed the GC/MS analysis. On behalf of Watauga County, CompuChem submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the analytical results. The original certificate of analysis was received March 23, 2011.

The evaluation of CompuChem's compliance with the method was based on a limited review of the following items: QC deliverables package, case narrative, technical holding time and preservation requirements, instrument performance check, instrument calibrations, blank analysis, system monitoring recoveries, matrix spike/matrix spike duplicate (MS/MSD) analysis, internal standard requirements, laboratory control samples (LCS), and confirmation of detected analytes. Review of transcriptions from raw data to summary sheets was performed. Specific representative calculations were not performed except where noted. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody (COC) was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met.

The certificate of analysis presented data which were of acceptable quality. Holding time, preservation, BFB tuning, initial and continuing calibration, blank, system (surrogate) monitoring, MS/MSD, internal standard and LCS requirements were met, except where noted below. No transcription errors were noted. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

Methylene chloride was detected in a method blank and in the trip blank less than the CRQL. Detected results for methylene chloride less than the CRQL were attributed to the laboratory contamination and validated as "U" (see attached data validation summary).

Chloroethane was detected above the CRQL in sample S-2. Several target analytes were detected below the CRQL in samples S-2, S-4, and S-5. No other target analytes were detected in any sample. Results were reported to at or above the laboratory detection limit (DL). Results less than the CRQL should be considered estimated values. Except where noted above, results remain as reported by the laboratory.

CLP VOLATILE ORGANIC ANALYSIS DATA VALIDATION

Sample ID: S-1, S-2, S-3, S-4, S-5, S-6
QC Samples: MS/MSD (not requested for project), Trip blank, Lab blanks
Laboratory: CompuChem, a Division of Liberty Analytical Corp, Cary, NC, SDG 1103088

- Were the samples analyzed under CLP SOW for organic analysis and did the analyte list include dichlorodifluoromethane? ☑ YES ☐ NO

Comment: Samples were analyzed under CLP protocol (SOM01.2). Target analytes included: benzene, chlorobenzene, chloroethane, 1,4-dichlorobenzene, dichlorodifluoromethane, 1,1-dichloroethane, 1,2-dichloroethane, 1,1-dichloroethene, cis-1,2-dichloroethene, trans-1,2-dichlroethene, 1,2-dichlopropane, methylene chloride, tetrachloroethene, 1,1,1-trichloroethane, trichloroethene, vinyl chloride

A. CLP TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1. Was the 14-day sample collection to analysis holding time met? ☑ YES ☐ NO
2. Were the samples received at 4°C (± 2°C) and zero headspace? ☑ YES ☐ NO
3. Were the samples preserved & pHs adjusted to <2 with HCl? ☑ YES ☐ NO
4. If samples were not preserved, were they analyzed within 7 days? ☑ NA

Comment: Holding time and preservation criteria were met.

B. GCMS INSTRUMENT PERFORMANCE CHECK CRITERIA:

1. Was analysis of the instrument performance check solution performed every 12 hours with the injection of bromofluorobenzene (BFB) solution or using a continuing calibration verification (CCV) that meets opening CCV criteria analyzed within the 12-hour window? ☑ YES ☐ NO
2. Was there documentation of the injection of a 50 ng BFB solution? ☑ YES ☐ NO
3. Were the ion abundance criteria met? (CLP Form V VOA) ☑ YES ☐ NO

Comment: Instrument performance check criteria were met.

C. INITIAL GCMS CALIBRATION CRITERIA:

* Were initial calibrations (ICAL) and any directly associated blanks and samples analyzed within 12 hours of the associated instrument performance check? ☑ YES ☐ NO

1. ***CLP Validation Criteria:***
   * Did the ICAL contain the target analytes and Deuterated Monitoring Compounds (DMCs) at the required concentrations? ☑ YES ☐ NO
   * Were quantitation ions randomly checked against the primary quantitation ions required by the method? ☑ YES ☐ NO

* Were the RRFs calculated based on the internal standard associated with that analyte as listed in the method? ☑ YES ☐ NO
* Did the target analytes, except those listed in Table 15, have RRFs ≥ 0.05 and %RSDs ≤ 20.0%? ☑ YES ☐ NO
* Did the target analytes listed in Table 15 and the DMCs have RRFs ≥ 0.01 and %RSDs ≤ 40.0%? ☑ YES ☐ NO
  If not, list compounds which exceed criteria:
* Were 10% of the target analytes recalculated? ☑ YES ☐ NO

2. ***CLP Contractual Requirements:***
   * Refer to Table 5 of SOMO1.2 and evaluate the relative response factors and % RSD results for method compliance.
   * Did ICAL meet the CLP initial calibration criteria? ☑ YES ☐ NO
   * If not, explain:

Comment: Initial calibration criteria were met.

D. CONTINUING CALIBRATION VERIFICATION (CCV) CRITERIA:

* Opening and closing CCV standard contains target analytes and DMCs
* Were CCVs analyzed at the beginning and end of each 12 hour period? The opening CCV may be part of the ICAL or run independently on another 12 hour analysis period. ☑ YES ☐ NO

1. ***CLP Validation Criteria:***
   * Opening CCV-Did the target analytes, except those listed in Table 15, have RRFs ≥ 0.05 and %Ds within ±25.0%? ☑ YES ☐ NO
     If not, list compounds which exceed criteria:
   * Opening CCV-Did the target analytes listed in Table 15 and the system monitoring compounds have RRFs ≥ 0.01 and %Ds ±40.0%? ☑ YES ☐ NO
     If not, list compounds which exceed criteria:
   * Closing CCV- %Ds within ±50.0%? ☑ YES ☐ NO
     If not, list compounds which exceed criteria:
   * Were 10% of the target analytes recalculated? ☑ YES ☐ NO
2. ***CLP Contractual Requirements:***
   * Evaluate RRFs and %D results based on Table 5 of SOM01.2
   * Did CCV meet CLP continuing calibration verification criteria? ☑ YES ☐ NO

Comment: Continuing calibration criteria were met.

E. BLANK CRITERIA:

1. Was a method blank analyzed after the calibration standards, prior to sample analysis, and once for every 12 hour period? ☑ YES ☐ NO
2. Was a storage blank prepared upon sample receipt of sample delivery group (SDG) and analyzed with samples. ☑ YES ☐ NO
3. Was a blank also analyzed after highly contaminated samples to prevent carry over contamination? ☑ NA ☐ YES ☐ NO

4. Was a trip blank analyzed with this sample batch? ☑ YES ☐ NO
5. Were the trip blanks and method blanks interference free? ☐ YES ☑ NO
6. Were any target analytes detected in other associated blanks? ☑ YES ☐ NO
7. List target analytes detected in the blanks: *methylene chloride*

Comment: Methylene chloride was detected in a method blank and in the trip blank less than the CRQL. Detected results less than the CRQL for this analyte were attributed to the laboratory contamination and validated as "U" (see data validation summary). The remaining blank criteria were met.

F. SYSTEM MONITORING (SURROGATE) COMPOUNDS CRITERIA:

CLP Performance Criteria:

1. Were fourteen deuterated monitoring compounds (DMC) added to the samples and blanks just prior to purging to measure their recoveries? ☑ YES ☐ NO
2. Were recoveries for the following analytes within the limits? ☑ YES ☐ NO

DMC	Recovery Limits (%) for Water Samples
Vinyl chloride-d_3	65 - 131
Chloroethane-d_5	71 - 131
1,1-Dichloroethene-d_2	55 - 104
2-Butanone-d_5	49 - 155
Chloroform-d	78 - 121
1,2-Dichloroethane-d_4	78 - 129
Benzene-d_6	77 - 124
1,2-Dichloropropane-d_6	79 - 124
Toluene-d_8	77 - 121
trans-1,3-Dichloropropene-d_4	73 - 121
2-Hexanone-d_5	28 - 135
1,4-Dioxane-d_8	50 - 150
1,1,2,2-Tetrachloroethane-d_2	73 - 125
1,2-Dichlorobenzene-d_4	80 - 131

Comment: The system monitoring compounds criteria were met.

G. MATRIX SPIKE, MATRIX SPIKE DUPLICATE CRITERIA:

1. Was the MS/MSD analyzed at a frequency of one MS and MSD per 20 samples of a similar matrix? ☑ NA ☐ YES ☐ NO
2. Were spike recoveries within limits provided below, and as shown on Form III VOA? ☑ NA ☐ YES ☐ NO

Compound	*% R-Water*	*% RPD Water*
1,1-dichloroethene	61-145	≤ 14
trichloroethene	71-120	≤ 14
benzene	76-127	≤ 11
toluene	76-125	≤ 13
chlorobenzene	75-130	≤ 13

3. Were relative percent differences (RPDs) between MS/MSD recoveries within the advisory limits provided above, and as shown on Form III VOA? ☑ NA ☐ YES ☐ NO

Comment: MS/MSD was not requested as allowed by the method and project requirements.

H. INTERNAL STANDARDS CRITERIA:

1. Were internal standard (IS) areas -50% to 200% of the CCV? ☑ YES ☐ NO
2. Were the IS retention times within ± 30 seconds of the last CCV? ☑ YES ☐ NO
3. Were the following IS used? ☑ YES ☐ NO
   * 1,4-difluorobenzene; chlorobenzene-d_5; 1,4-dichlorobenzene-d_4

Comment: Internal standards criteria were met.

I. TARGET ANALYTE IDENTIFICATION:

1. Were the RRTs of the reported analytes within +/- 0.06 RRT units of the standard RRT? ☑ YES ☐ NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met:
   * Were the ions present in the standard spectra at a relative intensity of >10 %, present in the sample spectra?
   * Were the relative intensities of the ion between the standard and sample spectra within +/-20%? Consider and account for ions present at > 10% in the sample spectra and not in the standard spectra.
3. Were the reported analytes confirmed? ☑ YES ☐ NO
4. Were the analyte concentrations which were recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? ☑ YES ☐ NO

Comment: Target analyte identification criteria were met. Several target analytes were detected below the contract required quantitation limit (CRQL) in samples S-2, S-4, and S-5.

J. TARGET ANALYTE QUANTITATION:

1. Was the correct internal standard, quantitation ion, and RRF used to quantitate the analyte? ☑ YES ☐ NO
2. Were the same internal standards, quantitation ions, and RRFs used consistently throughout, in both the calibration and quantitation process? ☑ YES ☐ NO
3. Were checks for peak splitting and tailing performed? ☑ YES ☐ NO
4. List the samples which required dilution: *None*

Comment: Target analyte quantitation was accurate. Chloroethane was detected above the CRQL in sample S-2. No other target analytes were detected above the CRQL.

K. TENTATIVELY IDENTIFIED COMPOUNDS (TICs) VIA LIBRARY SEARCHES

Comments: Tentatively identified compounds denoted as laboratory contaminants and compounds that could not be tentatively identified, "unknowns", were not tabulated. For this sampling event, no tentatively identified compounds were detected.

L. SYSTEM PERFORMANCE:

1. Evaluate the overall system performance over the course of the 12 hour tune/calibration period based on:
   * shifts in chromatographic baseline
   * extraneous peaks
   * loss of resolution
   * peak tailing or splitting
   * trends in increase or decrease of IS areas
2. Was the overall system performance ☑ satisfactory ☐ unsatisfactory

Comment: The operation system appeared stable.

M. ADDITIONAL COMMENTS:

Comment: The laboratory prepared and analyzed the samples using the CLP Statement of Work (SOW) document number SOM01.2. The COC listed the method as SOM01.2 Medium Level; however, the program lists the method as SOM01.2 Low Level. Data was evaluated using the *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).* No revisions were needed.

REFERENCES:

Draper Aden Associates conducted a limited data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data evaluation was conducted in general accordance with *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).* Validation of this data set is limited to the items detailed in this report.

LIMITATIONS:

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

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Date: 7/8/2011

This Report has been subjected to technical and quality review by:

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Date: 7/8/2011

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-12	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-12	0.15	J	0.15	J	0.5	1	Result < LOQ.
Chlorobenzene	MW-12	0.21	J	0.21	J	0.5	1	Result < LOQ.
Chloroethane	MW-12	6.4		6.4		0.5	1	No action taken.
Chloroform	MW-12	0.31	J	0.31	J	0.5	1	Result < LOQ.
1,2-Dichlorobenzene	MW-12	0.14	J	0.14	J	0.5	1	Result < LOQ.
1,4-Dichlorobenzene	MW-12	1.7		1.7		0.5	1	No action taken.
1,1-Dichloroethane	MW-12	17		17		0.5	1	No action taken.
1,2-Dichloroethane	MW-12	0.32	J	0.32	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-12	0.25	J	0.25	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-12	35		35		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-12	0.44	J	0.44	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-12	0.54		0.54		0.5	1	No action taken.
Methylene chloride	MW-12	0.79		U	A	0.5	1	Result < adjusted LOQ. Trip blank contamination (0.37 ug/l). Original result above the LOQ but less than five times the blank concentration. LOQ adjusted to original sample concentration (0.79 ug/l).
Naphthalene	MW-12	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-12	1.7		1.7	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-12	3.4		3.4		0.5	1	No action taken.
Vinyl chloride	MW-12	1.2		1.2		0.5	1	No action taken.

Definitions: LOQ Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

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Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-17	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-17	2		2		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-17	3.5		3.5		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-17	0.059	J	0.059	J	0.5	1	Result < LOQ.
Methylene chloride	MW-17	0.43	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-17	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-17	0.53		0.53	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-17	0.66		0.66		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-2	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-2	21		21		0.5	1	No action taken.
1,1-Dichloroethene	MW-2	39		39		0.5	1	No action taken.
Methylene chloride	MW-2	0.19	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-2	1.3		1.3	J	0.5	1	LCS recovered low (75%).
1,1,1-Trichloroethane	MW-2	160		160		0.5	6.25	No action taken. Analyzed at a 1:6.25 dilution to obtain result within instrument calibration range. Adjusted LOQ is 3.1 ug/l.
Trichloroethene	MW-2	0.22	J	0.22	J	0.5	1	Result < LOQ.

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Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

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Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-3	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Chloroethane	MW-3	1.9		1.9		0.5	1	No action taken.
Chloroform	MW-3	0.18	J	0.18	J	0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-3	7.5		7.5		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-3	17		17		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-3	0.26	J	0.26	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-3	0.21	J	0.21	J	0.5	1	Result < LOQ.
Methylene chloride	MW-3	0.11	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-3	0.19	J	0.19	J	0.5	1	Result < LOQ. LCS recovered low (75%).
Trichloroethene	MW-3	2.1		2.1		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-8	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-8	0.12	J	0.12	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-8	0.042	J	0.042	J	0.5	1	Result < LOQ.
Methylene chloride	MW-8	0.14	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. LCS recovered low (75%).

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Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

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Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-9	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-9	2		2		0.5	1	No action taken.
Chlorobenzene	MW-9	0.37	J	0.37	J	0.5	1	Result < LOQ.
Chloroethane	MW-9	1.9		1.9		0.5	1	No action taken.
1,4-Dichlorobenzene	MW-9	1.7		1.7		0.5	1	No action taken.
Dichlorodifluoromethane	MW-9	0.49	J	0.49	J	0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-9	7.7		7.7		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-9	5.2		5.2		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-9	0.24	J	0.24	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-9	0.15	J	0.15	J	0.5	1	Result < LOQ.
Methylene chloride	MW-9	0.47	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-9	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-9	0.56		0.56	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-9	0.83		0.83		0.5	1	No action taken.
Vinyl chloride	MW-9	1.2		1.2		0.5	1	No action taken.
Method: *SOM01.2 VOA LOW*								
Chloroethane	S-2	27		27		5	1	No action taken.
1,1-Dichloroethane	S-2	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-2	0.65	J	0.65	J	5	1	Result < CRQL.
Methylene chloride	S-2	1.5	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-3	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).

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Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

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Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical								
Method: *SOM01.2 VOA LOW*								
1,1-Dichloroethane	S-4	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-4	2.9	J	2.9	J	5	1	Result < CRQL.
Methylene chloride	S-4	1.3	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-5	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
1,1,1-Trichloroethane	S-5	1.6	J	1.6	J	5	1	Result < CRQL.

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Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

SW-846 METHOD 8260B VOLATILE ORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 16-17, 2011 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. Draper Aden Associates collected groundwater samples from monitoring wells MW-2, MW-3, MW-8, MW-9, MW-12, and MW-17. The samples and a trip blank were analyzed for 62 volatile organic analytes by USEPA SW-846 Method 8260B/5030B using a 25 ml purge volume.

Draper Aden Associates sent samples to CompuChem (CompuChem), a Division of Liberty Analytical, of Cary, North Carolina. CompuChem performed the SW-846 Method 8260B volatile analysis. CompuChem submitted results to Draper Aden Associates in a final certificate of analysis, which included sample analytical results as well as relevant documentation to validate and verify the results.

The evaluation of CompuChem's compliance with Method 8260B and validation of the results was based on a limited review of the following items: QC deliverables package, QC history documentation, case narrative, technical holding time and preservation requirements, instrument performance (tune) check, instrument calibrations, blank, surrogate spike, matrix spike and matrix spike duplicate (MS/MSD), laboratory control sample (LCS) data, and internal standard requirements. The following information is intended to summarize data review results and any observed significant deviations from method and/or contractual requirements.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met, except where noted below.

Method 8260B

The original certificate of analysis for Method 8260B was received on March 28, 2011. The final certificate of analysis was complete and no data was rejected. The data set demonstrated the laboratory's ability to achieve the reported limit of quantitation (LOQ), as supported by the initial calibration data and laboratory method detection limit (MDL) study.

QC history documentation was provided. Instrument performance check (tuning) criteria, initial calibration, calibration verification, blanks, surrogates, MS/MSD, internal standard and LCS requirements were met, except where noted below. Sample results were verified and no transcription errors were observed. Deviations from specific QA/QC criteria that were identified during the data review process are summarized below.

The holding time requirement was met. Sample preservation criteria were met with the exception of acrolein. Acrolein analysis was performed on samples preserved to a pH < 2 instead of pH 4-5. Acrolein was not detected in any sample and the LOQ for acrolein was qualified as estimated for all sample results.

Methylene chloride was reported below the LOQ in the trip blank. Detected results less than the LOQ for methylene chloride were attributed to the observed blank contamination and validated as "U." Detected results for methylene chloride greater than the LOQ but less than five times the blank concentration were attributed to the observed blank contamination and qualified "UA" to note that methylene chloride was not detected above the adjusted LOQ. The sample LOQ was adjusted to the reported sample concentration (see data validation summary). This applied to MW-12 for methylene chloride. The remaining blank criteria were met.

Naphthalene recovered low in the MS. Naphthalene was not detected at or above the detection limit (DL) or LOQ and results for naphthalene were qualified "UJ" to note that the DL/ LOQ were estimated due to this QC deficiency (see data validation report). The remaining MS/MSD criteria were met.

Tetrachloroethene recovered low in the LCS and detected results for tetrachloroethene greater than the DL were considered biased low and qualified as estimated, "J" (see data validation report). Tetrachloroethene results not detected at or above the DL or LOQ were qualified "UJ" to note that the DL/LOQ were estimated due to this QC deficiency. The remaining LCS criteria were met.

Sample MW-2 required dilution and re-analysis to obtain the reported sample result for 1,1,1-trichloroethane. Both the undiluted and diluted 1,1,1-trichloroethane result for MW-2 were submitted by the laboratory; however, the final reported result for 1,1,1-trichloroethane was obtained from the dilution analysis.

Calculation checks were performed on a minimum ten percent of the data set to verify the accuracy of the laboratory computer generated result and no concerns were noted.

Results were reported and validated to at or above the DL. Target analytes detected at or above the DL and/or analytical data that required a data validation qualifier due to quality control deviations noted above are summarized on the attached table. Except where attributed to blank contamination as noted above, target analytes reported by the laboratory as detected less than the corresponding LOQs are validated and qualified as "J" to note that the reported concentration should be considered estimated.

Target analytes remain as reported by the laboratory, unless noted. Except where noted above, other sample results were validated and reported as "U" to note the target analyte was analyze for, but not detected at or above the DL or LOQ. No results were rejected based on the data validation criteria.

SW-846 METHOD 8260B (GC/MS) VOLATILE ORGANIC DATA VALIDATION

Sample ID: MW-2, MW-3, MW-8, MW-9, MW-12, MW-17
QC Samples: MW-3 MS, MW-3 MSD, Trip Blank, Method Blank, LCS
Laboratory: CompuChem, a division of Liberty Analytical of Cary NC; SDG 1103087
NC Certification No 79

Comment: *Volatile organic analysis uses a purge and trap system to remove volatile organic target analytes from a 25 ml water sample (SW-846 5030B). Target analytes are separated and quantified using a capillary column gas chromatograph (GC)/mass spectrometer (MS).*

A. QC DELIVERABLES PACKAGE:

1. Was the case narrative present/signed by a lab representative? ☑ YES ☐ NO
2. Was the Chain of Custody present/signed by a lab representative? ☑ YES ☐ NO
3. Were the sample results included for the sample locations? ☑ YES ☐ NO
4. Did the laboratory analyte list correspond to the project specific analyte list? ☑ YES ☐ NO
5. Were the analyte LOQs reported on sample summary sheets in agreement with the instrument specific MDL study? ☑ YES ☐ NO

Comments: QC deliverables package requirements were met.

B. QC HISTORY DOCUMENTATION CRITERIA:

1. Was an instrument specific MDL study provided, which included LOD and LOQ values for the target analytes? ☑ YES ☐ NO
2. Was the instrument calibration range specified? ☑ YES ☐ NO
3. Was analyst initial demonstration of proficiency data provided for each target analyte? ☑ YES ☐ NO

Comments: QC history documentation criteria were met. MDL study provided previously. The IDOC study for analyst T. Do was provided previously.

C. TECHNICAL HOLDING TIME AND PRESERVATION CRITERIA:

1. Was the 14-day sample collection to analysis holding time met? ☑ YES ☐ NO
2. Were the samples received at $\leq 6^{\circ}C$ and zero headspace? ☑ YES ☐ NO
3. Was the pH of each sample adjusted to < 2 with HCl? ☑ YES ☐ NO
4. Was a separate sample aliquot adjusted with HCl to a pH between 4-5? (For analysis of acrolein only). ☐ YES ☑ NO

Comments: Technical holding time criteria were met. Sample preservation criteria were met except for acrolein at noted in the data review summary above.

D. GC/MS INSTRUMENT PERFORMANCE (TUNING) CHECK CRITERIA:

1. Was analysis of the instrument performance check solution performed at the beginning of each 12-hour period during which standards or samples were analyzed? ☑ YES ☐ NO
2. Was there documentation of the injection of 5-50 ng BFB? ☑ YES ☐ NO
3. Were the ion abundance criteria met? ☑ YES ☐ NO
4. Were calibration, blank, and sample analyses performed within 12 hours of tuning? ☑ YES ☐ NO

Comments: Instrument performance check criteria were met.

E. INITIAL GC/MS CALIBRATION CRITERIA:

SW-846 Criteria:

1. Was data randomly checked to ensure that the internal standard (IS) which was selected for target analyte RF calculation was the IS that had the closest retention time? ☑ YES ☐ NO
2. Were the target analytes included in the ICAL? (ICAL Summary) ☑ YES ☐ NO
3. Did the ICALs consist of a minimum of 5 calibration levels? ☑ YES ☐ NO
4. Was the lowest concentration calibration standard at or below the associated MCL, regulatory compliance, or action limit? ☑ YES ☐ NO
5. Were any calibration levels removed from the curve that would negatively influence the data integrity? ☐ YES ☑ NO
6. Was the calibration curve developed using the same purge volume used for sample analysis? ☑ YES ☐ NO
7. Were 8260B SPCC criteria met? ☑ YES ☐ NO
   - chloromethane (0.100)
   - 1,1-dichloroethane (0.100)
   - bromoform (0.100)
   - 1,1,2,2-tetrachloroethane (0.300)
   - chlorobenzene (0.300)
8. Were 8260B CCC criteria met? (%RSD ≤ 30%) ☑ YES ☐ NO
   - 1,1-dichloroethene
   - chloroform
   - 1,2-dichloropropane
   - toluene
   - ethylbenzene
   - vinyl chloride
9. Was each target analyte %RSD ≤ 15% (excluding CCCs)? ☐ YES ☑ NO
10. Was the correlation coefficient >0.99 for target analytes with ≥15 % RSD? ☑ YES ☐ NO

Method Validation Performance Criteria:

1. Did target analytes and surrogates have % RSDs ≤ 15% and / or >0.99 correlation coefficient? ☑ YES ☐ NO
   (Evaluate RRFs < 0.05 for potential problems.)

Comments: Initial calibration criteria were met.

F. CALIBRATION VERIFICATION CRITERIA:

SW-846 Criteria:

1. Was a calibration verification (CV) analyzed at the beginning of each 12-hour period following the analysis of the instrument performance check and prior to analysis of the method blank and samples? The calibration verification may be part of the ICAL or analyzed independently during another 12-hour analysis period. ☑ YES ☐ NO
2. Were 8260B SPCC criteria met? ☑ YES ☐ NO
   - chloromethane (0.100)
   - 1,1-dichloroethane (0.100)
   - bromoform (0.100)
   - 1,1,2,2-tetrachloroethane (0.300)
   - chlorobenzene (0.300)
3. Were 8260B CCC criteria met? (%Drift or % Difference (%D) within ± 20%) ☑ YES ☐ NO
   - 1,1-dichloroethene
   - chloroform
   - 1,2-dichloropropane
   - toluene
   - ethylbenzene
   - vinyl chloride

Method Validation Performance Criteria:

1. Did the target analytes and system monitoring analytes (surrogates) have the % D within ± 25.0%? ☑ YES ☐ NO
   (Evaluate RRFs < 0.05 for potential problems.)
   If "NO", list analytes that exceed these criteria: *See attached table.*

Draper Aden Associates Contractual Requirements:

1. Did the target analytes and system monitoring analytes (surrogates) have % Ds within ± 25.0%? ☑ YES ☐ NO
2. Three analytes may fail to meet maximum % D as long as the % D is w/in ± 40.0%. Did the CV meet this criteria? ☑ NA ☐ YES ☐ NO

Comments: Calibration verification criteria were met.

G. BLANK CRITERIA:

1. Was a method blank analyzed after the calibration standards, prior to sample analysis, and once for every 12 hour period beginning with the injection of BFB? ☑ YES ☐ NO
2. Was a trip blank analyzed with this sample batch? ☑ YES ☐ NO
3. Were the trip blanks and method blanks interference free? ☐ YES ☑ NO
4. List analytes detected in the blanks: *methylene chloride*
5. Was the level of blank contamination less than 5% of the MCL associated with the analyte? ☑ YES ☐ NO
6. Did any samples contain high concentrations of VOCs in excess of the linear range of the calibration curve? ☑ YES ☐ NO
7. Were one or more blanks analyzed following the high concentration sample to prevent cross contamination? ☐ YES ☑ NO

Comments: Blank criteria were met except as discussed in the data review summary above. MW-2 required a dilution for 1,1,1-trichloroethane and no carry-over was observed.

H. SURROGATE CRITERIA:

SW-846 Criteria:

1. Were the following surrogates used? *See comment*
   - dibromofluoromethane (80%-120%)
   - 4-bromofluorobenzene (80%-120%)
   - toluene-d_8 (80%-120%)
   - 1,2-dichloroethane-d_4 (80%-120%)
2. Were recoveries within the specified ranges? ☑ YES ☐ NO
   If "NO", corrective action is required. Flagging of the data as estimated is not acceptable until corrective action has been attempted.
3. Were samples with surrogates outside the QC window reanalyzed as required? ☑ NA ☐ YES ☐ NO

Comments: The laboratory substituted bromofluorobenzene for 4-bromofluorobenzene as allowed by the method. Surrogate criteria were met.

I. MATRIX SPIKE, MATRIX SPIKE DUPLICATE CRITERIA:

(MS/MSD Requirements - CLP Guidelines)

Analyte	*% R Water*	*RPD Water*
1,1-dichloroethene	61-145	14
trichloroethene	71-120	14
benzene	76-127	11
toluene	76-125	13
chlorobenzene	75-130	13

1. Was a matrix spike and matrix spike duplicate (MS/MSD) analyzed per sample batch or every 20 samples, whichever may occur first? ☑ YES ☐ NO
2. Did the MS/MSD spike contain additional target analytes? ☑ YES ☐ NO
3. Was the MS/MSD analyzed on the specific project matrix? ☑ YES ☐ NO
4. List matrix spike target analytes not within recovery ranges: *Naphthalene*
5. Was a LCS analyzed to address failed matrix spike criteria? ☑ YES ☐ NO
6. Did the LCS for the failed matrix spike analyte fall within the acceptable recovery ranges and was the problem identified as matrix interference? ☑ YES ☐ NO
7. Were any analytes flagged as estimated concentrations? ☑ YES ☐ NO
8. List analytes flagged as estimated concentrations: *Naphthalene*

Comments MS/MSD criteria were met except as discussed in the data review summary above.

J. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

1. Was a LCS included in the sample analysis? ☑ YES ☐ NO
2. Did the LCS contain the required target analytes? ☑ YES ☐ NO

3. List the LCS acceptance criteria: 80-120% / 70-130% (poor purge analytes)
4. List the LCS analytes not within the specified ranges: *Tetrachloroethene*
5. Were any analytes flagged as estimated due to LCS criteria? ☑ YES ☐ NO

Comments: LCS criteria were met except as discussed in the data review summary above.

K. INTERNAL STANDARDS CRITERIA:

1. Were the following internal standards used? ☑ YES ☐ NO
   - fluorobenzene
   - chlorobenzene-d_5
   - 1,4-dichlorobenzene-d_4
2. Were internal standard areas within - 50% to + 100% of the last calibration verification? ☑ YES ☐ NO
3. Were internal standard retention times within ± 30 seconds of the last calibration verification? ☑ YES ☐ NO
4. Were samples failing items 2. and/or 3. above reanalyzed as required by the method? ☑ NA ☐ YES ☐ NO

Comments: Internal standards criteria were met.

L. TARGET ANALYTE IDENTIFICATION:

1. Were the RRTs of the reported analytes within ± 0.06 RRT units of the standard RRT? ☑ YES ☐ NO
2. Check the sample spectra against the laboratory standard spectra to see that the following criteria were met:
   * Did characteristic ions maximize in the same scan or within one scan of each other?
   * Were the characteristic ions present in the standard spectra present in the sample spectra for analytes detected above the LOQ?
   * Were the relative intensities of the ions between standard and sample spectra within ± 30%?
3. Were the reported analytes confirmed? ☑ YES ☐ NO

Comments: Target analyte identification criteria were met.

M. TARGET ANALYTE QUANTITATION:

* If the %RSD of an analyte was 15% or less, then the average relative response factor should have been used for quantitation.
* If the %RSD of an analyte was greater than 15%, then the quantitation should be based on a calibration curve using the first or higher order regression fit of the five calibration points (6 calibration points for 2nd order).

1. List the analytes detected above the LOQ whose %RSD was >15%: *See comment*
   a. Was the subsequent quantitation based on a linear regression fit? ☑ NA
   b. Was the curve forced through the origin? ☑ NA
2. Did the initial analysis of any sample have a target analyte concentration

that exceeded the initial calibration range? ☑ YES ☐ NO
-If so, was the sample reanalyzed at a higher dilution? ☑ YES ☐ NO

3. Were the analyte concentrations that were recorded on the raw sample quantitation reports accurately transferred to the sample summary sheets? ☑ YES ☐ NO

Comments: Sample MW-2 required a dilution for 1,1,1-trichloroethane. Methylene chloride reported above the LOQ in sample MW-12 was attributed to blank contamination.

N. LIBRARY SEARCHES:

Comments: Library searches were provided and reviewed.

O. CORRECTIVE ACTION TAKEN AND GENERAL COMMENTS:

Comments: The laboratory previously provided the MDL and IDOC studies as a revision. No other corrective action was taken.

P. TENTATIVELY IDENTIFIED PARAMETER NOTES:

Comments: Tentatively identified compounds denoted as laboratory contaminants and compounds that could not be tentatively identified, "unknowns", were not tabulated.

PARAMETER	SAMPLE ID	LAB RESULT (µg/l)	VALIDATED RESULT (µg/l)	NOTES*
Ethyl Ether	MW-9	0.93 JN	0.93 JN	Tentatively identified through comparison with the NIST/EPA/MSDS library of spectra. Estimated concentration calculated based on nearest internal standard.
1,3-dichloro-2-methyl-propene	MW-12	0.32 JN	0.32 JN	
Dichlorofluoromethane	MW-12	3.0 JN	3.0 JN	
Ethyl Ether	MW-12	3.2 JN	3.2 JN	
Fluorodichloromethane	MW-12	0.55 JN	0.55 JN	

*See definition section of report for additional information on Data Validation and Reporting Qualifiers.

Q. REFERENCES:

Draper Aden Associates conducted data validation of the above noted data set using summary tables and raw data provided by the analyzing laboratory. Data validation was conducted in general accordance with SW-846 Method requirements (Test Methods for Evaluating Solid Wastes - Physical and Chemical Methods, USEPA SW-846, 3rd edition - Final Update I, II/IIA and III) and CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, October, 1999) and where applicable with *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008).where applicable*. Validation of this data set is limited to the items detailed in this report.

LIMITATIONS:

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Conclusions presented are based upon a review of available information, the results of our field studies, and/or professional judgment. To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

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This Report has been prepared by:

7.11.2011
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7/11/2011
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Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Watauga County Landfill Facility ID 95-02

Draper Aden Associates
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Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-12	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-12	0.15	J	0.15	J	0.5	1	Result < LOQ.
Chlorobenzene	MW-12	0.21	J	0.21		0.5	1	Result < LOQ.
Chloroethane	MW-12	6.4		6.4		0.5	1	No action taken.
Chloroform	MW-12	0.31	J	0.31		0.5	1	Result < LOQ.
1,2-Dichlorobenzene	MW-12	0.14	J	0.14		0.5	1	Result < LOQ.
1,4-Dichlorobenzene	MW-12	1.7		1.7		0.5	1	No action taken.
1,1-Dichloroethane	MW-12	17		17		0.5	1	No action taken.
1,2-Dichloroethane	MW-12	0.32	J	0.32		0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-12	0.25	J	0.25		0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-12	35		35		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-12	0.44	J	0.44		0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-12	0.54		0.54		0.5	1	No action taken.
Methylene chloride	MW-12	0.79		U	A	0.5	1	Result < adjusted LOQ. Trip blank contamination (0.37 ug/l). Original result above the LOQ but less than five times the blank concentration. LOQ adjusted to original sample concentration (0.79 ug/l).
Naphthalene	MW-12	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-12	1.7		1.7	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-12	3.4		3.4		0.5	1	No action taken.
Vinyl chloride	MW-12	1.2		1.2		0.5	1	No action taken.

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U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering • Surveying • Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-17	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-17	2		2		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-17	3.5		3.5		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-17	0.059	J	0.059		0.5	1	Result < LOQ.
Methylene chloride	MW-17	0.43	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-17	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-17	0.53		0.53	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-17	0.66		0.66		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-2	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-2	21		21		0.5	1	No action taken.
1,1-Dichloroethene	MW-2	39		39		0.5	1	No action taken.
Methylene chloride	MW-2	0.19	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-2	1.3		1.3	J	0.5	1	LCS recovered low (75%).
1,1,1-Trichloroethane	MW-2	160		160		0.5	6.25	No action taken. Analyzed at a 1:6.25 dilution to obtain result within instrument calibration range. Adjusted LOQ is 3.1 ug/l.
Trichloroethene	MW-2	0.22	J	0.22		0.5	1	Result < LOQ.

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Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-3	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Chloroethane	MW-3	1.9		1.9		0.5	1	No action taken.
Chloroform	MW-3	0.18	J	0.18		0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-3	7.5		7.5		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-3	17		17		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-3	0.26	J	0.26		0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-3	0.21	J	0.21		0.5	1	Result < LOQ.
Methylene chloride	MW-3	0.11	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-3	0.19	J	0.19	J	0.5	1	Result < LOQ. LCS recovered low (75%).
Trichloroethene	MW-3	2.1		2.1		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-8	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-8	0.12	J	0.12		0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-8	0.042	J	0.042		0.5	1	Result < LOQ.
Methylene chloride	MW-8	0.14	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. LCS recovered low (75%).

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CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-9	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-9	2		2		0.5	1	No action taken.
Chlorobenzene	MW-9	0.37	J	0.37		0.5	1	Result < LOQ.
Chloroethane	MW-9	1.9		1.9		0.5	1	No action taken.
1,4-Dichlorobenzene	MW-9	1.7		1.7		0.5	1	No action taken.
Dichlorodifluoromethane	MW-9	0.49	J	0.49		0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-9	7.7		7.7		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-9	5.2		5.2		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-9	0.24	J	0.24		0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-9	0.15	J	0.15		0.5	1	Result < LOQ.
Methylene chloride	MW-9	0.47	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-9	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-9	0.56		0.56	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-9	0.83		0.83		0.5	1	No action taken.
Vinyl chloride	MW-9	1.2		1.2		0.5	1	No action taken.
Method: *SOM01.2 VOA LOW*								
Chloroethane	S-2	27		27		5	1	No action taken.
1,1-Dichloroethane	S-2	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-2	0.65	J	0.65	J	5	1	Result < CRQL.
Methylene chloride	S-2	1.5	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-3	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).

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Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
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Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical								
Method: *SOM01.2 VOA LOW*								
1,1-Dichloroethane	S-4	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-4	2.9	J	2.9	J	5	1	Result < CRQL.
Methylene chloride	S-4	1.3	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-5	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
1,1,1-Trichloroethane	S-5	1.6	J	1.6	J	5	1	Result < CRQL.

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Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-12	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-12	0.15	J	0.15	J	0.5	1	Result < LOQ.
Chlorobenzene	MW-12	0.21	J	0.21	J	0.5	1	Result < LOQ.
Chloroethane	MW-12	6.4		6.4		0.5	1	No action taken.
Chloroform	MW-12	0.31	J	0.31	J	0.5	1	Result < LOQ.
1,2-Dichlorobenzene	MW-12	0.14	J	0.14	J	0.5	1	Result < LOQ.
1,4-Dichlorobenzene	MW-12	1.7		1.7		0.5	1	No action taken.
1,1-Dichloroethane	MW-12	17		17		0.5	1	No action taken.
1,2-Dichloroethane	MW-12	0.32	J	0.32	J	0.5	1	Result < LOQ.
1,1-Dichloroethene	MW-12	0.25	J	0.25	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-12	35		35		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-12	0.44	J	0.44	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-12	0.54		0.54		0.5	1	No action taken.
Methylene chloride	MW-12	0.79		U	A	0.5	1	Result < adjusted LOQ. Trip blank contamination (0.37 ug/l). Original result above the LOQ but less than five times the blank concentration. LOQ adjusted to original sample concentration (0.79 ug/l).
Naphthalene	MW-12	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-12	1.7		1.7	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-12	3.4		3.4		0.5	1	No action taken.
Vinyl chloride	MW-12	1.2		1.2		0.5	1	No action taken.

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CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-17	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-17	2		2		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-17	3.5		3.5		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-17	0.059	J	0.059	J	0.5	1	Result < LOQ.
Methylene chloride	MW-17	0.43	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-17	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-17	0.53		0.53	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-17	0.66		0.66		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-2	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-2	21		21		0.5	1	No action taken.
1,1-Dichloroethene	MW-2	39		39		0.5	1	No action taken.
Methylene chloride	MW-2	0.19	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-2	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-2	1.3		1.3	J	0.5	1	LCS recovered low (75%).
1,1,1-Trichloroethane	MW-2	160		160		0.5	6.25	No action taken. Analyzed at a 1:6.25 dilution to obtain result within instrument calibration range. Adjusted LOQ is 3.1 ug/l.
Trichloroethene	MW-2	0.22	J	0.22	J	0.5	1	Result < LOQ.

Definitions: LOQ Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-3	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Chloroethane	MW-3	1.9		1.9		0.5	1	No action taken.
Chloroform	MW-3	0.18	J	0.18	J	0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-3	7.5		7.5		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-3	17		17		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-3	0.26	J	0.26	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-3	0.21	J	0.21	J	0.5	1	Result < LOQ.
Methylene chloride	MW-3	0.11	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-3	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-3	0.19	J	0.19	J	0.5	1	Result < LOQ. LCS recovered low (75%).
Trichloroethene	MW-3	2.1		2.1		0.5	1	No action taken.
Method: *8260B*								
Acrolein	MW-8	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
1,1-Dichloroethane	MW-8	0.12	J	0.12	J	0.5	1	Result < LOQ.
cis-1,2-Dichloroethene	MW-8	0.042	J	0.042	J	0.5	1	Result < LOQ.
Methylene chloride	MW-8	0.14	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-8	0.5	U	U	J	0.5	1	Analyte not detected. LCS recovered low (75%).

Definitions: LOQ Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering • Surveying • Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC								
Method: *8260B*								
Acrolein	MW-9	5	U	U	J	5	1	Analyte not detected. Aliquot pH was <2 SU.
Benzene	MW-9	2		2		0.5	1	No action taken.
Chlorobenzene	MW-9	0.37	J	0.37	J	0.5	1	Result < LOQ.
Chloroethane	MW-9	1.9		1.9		0.5	1	No action taken.
1,4-Dichlorobenzene	MW-9	1.7		1.7		0.5	1	No action taken.
Dichlorodifluoromethane	MW-9	0.49	J	0.49	J	0.5	1	Result < LOQ.
1,1-Dichloroethane	MW-9	7.7		7.7		0.5	1	No action taken.
cis-1,2-Dichloroethene	MW-9	5.2		5.2		0.5	1	No action taken.
trans-1,2-Dichloroethene	MW-9	0.24	J	0.24	J	0.5	1	Result < LOQ.
1,2-Dichloropropane	MW-9	0.15	J	0.15	J	0.5	1	Result < LOQ.
Methylene chloride	MW-9	0.47	J	U		0.5	1	Result < LOQ. Blank contamination. Trip blank contamination (0.37 ug/l).
Naphthalene	MW-9	0.5	U	U	J	0.5	1	Analyte not detected. MS recovered low (72%).
Tetrachloroethene	MW-9	0.56		0.56	J	0.5	1	LCS recovered low (75%).
Trichloroethene	MW-9	0.83		0.83		0.5	1	No action taken.
Vinyl chloride	MW-9	1.2		1.2		0.5	1	No action taken.
Method: *SOM01.2 VOA LOW*								
Chloroethane	S-2	27		27		5	1	No action taken.
1,1-Dichloroethane	S-2	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-2	0.65	J	0.65	J	5	1	Result < CRQL.
Methylene chloride	S-2	1.5	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-3	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).

Definitions: LOQ Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

Data Validation Report for GC/MS Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering ◆ Surveying ◆ Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		LOQ/CRQL (ug/L)	Dilution	Validation Notes
Laboratory: CompuChem, a Division of Liberty Analytical								
Method: *SOM01.2 VOA LOW*								
1,1-Dichloroethane	S-4	1.5	J	1.5	J	5	1	Result < CRQL.
cis-1,2-Dichloroethene	S-4	2.9	J	2.9	J	5	1	Result < CRQL.
Methylene chloride	S-4	1.3	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
Method: *SOM01.2 VOA LOW*								
Methylene chloride	S-5	1.2	J	U		5	1	Result < CRQL. Blank contamination in a method blank (1.2 ug/l) and trip blank (1.2 ug/l).
1,1,1-Trichloroethane	S-5	1.6	J	1.6	J	5	1	Result < CRQL.

Definitions: LOQ Denotes laboratory limit of quantitation. **CRQL** Denotes laboratory contract required quantitation limit.
U Denotes analyte not detected above detection limit or LOQ/CRQL. **J** Denotes analyte is estimated. When used with a "U" (i.e., "UJ"), denotes analyte not detected above detection limit or LOQ/CRQL and LOQ/CRQL is estimated. **UA** denotes analyte not detected at or above the adjusted LOQ. **B** Denotes result attributed to blank contamination, a laboratory data qualifier. R Denotes result rejected.
Target analytes not listed above were not detected at or above the laboratory detection limit , LOQ/CRQL and no data qualification was required. For method reference CLP SOW-use CRQL.
CompuChem NC Certification Number 79. Lancaster Laboratories NC Certification Number 42705.

CLP INORGANIC DATA REVIEW SUMMARY

Draper Aden Associates performed a limited review of the analytical results for the March 16-17, 2011 groundwater monitoring event at the Watauga County Landfill, Facility ID 95-02. The sample locations MW-2, MW-3, MW-8, MW-9, MW-12 and MW-17 were analyzed for six inorganic target parameters: barium, chromium, cobalt, iron, nickel and vanadium by USEPA Contract Laboratory Program (CLP) Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP) Method ILM05.4. Target metals were analyzed for their total concentrations. Sample MW-3 was designated as the project specific quality control (QC) sample (i.e., the analytical sample duplicate and matrix spike). The following information and attached table summarize the inorganic data review results.

CompuChem, a Division of Liberty Analytical Corporation (CompuChem), of Cary, North Carolina, performed the inorganic analyses. The analyses were performed in accordance with USEPA CLP Statement of Work ILM05.4. The original certificate of analysis was received March 28, 2011.

On behalf of Watauga County, CompuChem submitted results to Draper Aden Associates in a final certificate of analysis which included sample analytical results as well as relevant documentation to verify and validate the results. The results of this data validation presented here are based upon a review of QA/QC information including holding times, preservation procedures and standards, blank samples analyses (method and calibration blanks), interference check sample results, matrix spike/matrix spike duplicate (MS/MSD) or analytical sample duplicate, laboratory control sample (LCS), serial dilution criteria, MDL/CRQL information. Review was performed on summary sheets provided by the laboratory, unless a notable discrepancy in the data package required additional review of the raw data. The completeness of this data package was verified. The data package included instrument analytical data, chain of custody and preparation logs.

CompuChem received the samples on ice and in good condition with custody seals intact. The chain of custody was appropriately signed and dated by field and laboratory personnel. Technical holding time and preservation criteria were met.

The original certificate of analysis appeared complete in its presentation and the data were of acceptable quality. The certificate of analysis demonstrated the ability of the laboratory to achieve the reported contract required quantitation limit (CRQL) for each target parameter. CRQLs were equal to or less than the respective USEPA MCL drinking water standard and North Carolina groundwater quality standards, where applicable.

QC documentation criteria were met. Instrument calibration and calibration verification criteria were met. CRQL standards, blank samples, interference check samples, pre-digestion MS and analytical sample duplicate, LCS and serial dilution samples were analyzed as required and quality control criteria were met except where noted below. No deviations from specific control limits and QA/QC controls were identified during the data review process.

Cobalt, nickel, and vanadium were detected less than the CRQL in the laboratory calibration verification blanks. Detected results for cobalt, nickel and vanadium less than the CRQL were attributed to laboratory contamination and were qualified as "U" (see attached data validation summary).

Sample results greater than the CRQL and unaffected by the above data validation process remain as reported by the laboratory. Sample results were reported and validated to at or above the method detection limit (MDL). Results reported between the MDL and CRQL were considered estimated and labeled as "J."

INORGANIC DATA EVALUATION FOR CLP-ICP METHOD, ILM05.4

Sample ID: MW-2, MW-3, MW-8, MW-9, MW-12, MW-17
QC Samples: Lab blanks, Matrix spike/Analytical Duplicate (MW-3)
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC; SDG 1103087

Does Laboratory analyte list correspond to analyte list requested? √ yes _ no
Corresponds to Ba, Cr, Co, Fe, Ni, V
"√" denotes items reviewed. See Data Validation Summary for additional comments.

A. QC DOCUMENTATION CRITERIA:
- √ Specific MDLs for the target analytes

B. TECHNICAL HOLDING TIME / PRESERVATION REQUIREMENTS:
- √ 6 month holding time
- √ Adjust pH <2 w/ HNO_3

C. INSTRUMENT CALIBRATION CRITERIA:
- √ 1 calibration blank and at least 1 standard
- √ Specific CRQLs for the target analytes, except where noted below
- √ CRQL standard 70-130%, concentration at CRQL for target analytes (except Al, Ba, Ca, Fe, Mg, Na or K, not required)
- √ CRQL standard analyzed at beginning and end of analytical run

D. INITIAL / CONTINUING CALIBRATION VERIFICATION CRITERIA:
- √ 10 sample frequency
- √ Use of calibration blank and check standard
- √ %R within 90-110% range

E. BLANK ANALYSES CRITERIA:
- N/A Trip Blank (check only if analyzed)
- N/A Equipment Blank (check only if analyzed)
- √ One Method Blank per batch of samples
- √ Interference free
- √ CCB - 10 sample frequency

F. INTERFERENCE CHECK SAMPLES (ICS) CRITERIA:
- √ At beginning and end of batch and every 20 samples (80-120%)
- √ Verification of ICP interelement correction factors

G. DUPLICATE SAMPLE CRITERIA:
- √ One analytical duplicate per batch of samples, all analytes
- √ **DUP:** %RPD ± 20% for sample values greater than 5 X CRQL

√ {sample ± CRQL} when values are less than 5 X CRQL

H. MATRIX SPIKE (MS) SAMPLE CRITERIA:

√ One matrix spike per batch of 20 samples, all analytes
√ %R within 75-125% range

I. LABORATORY CONTROL SAMPLE (LCS) CRITERIA:

√ 80-120%, all target analytes

J. SERIAL DILUTION CRITERIA:

√ <10% Difference (applicable when concentration >50X DL)

K. SAMPLE RESULTS CRITERIA:

√ Results reported within ICP linear concentration range
√ Results reported to method detection limit (<CRQL)

Draper Aden Associates conducted a limited data validation of the above noted data set using summary tables provided by the analyzing laboratory. Data evaluation was conducted using CLP data validation guidelines (USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, January 2010, where applicable). Validation of this data set was limited to review of the items detailed in this report.

LIMITATIONS:

Draper Aden Associates prepared this document (which may include drawings, specifications, reports, studies and attachments) in accordance with the agreement between Draper Aden Associates and the client.

The standard of care for all professional engineering, environmental and surveying and related services performed or furnished by Draper Aden Associates under this Agreement are the care and skill ordinarily used by members of these professions practicing under similar circumstances at the same time and in the same locality. Draper Aden Associates makes no warranties, express or implied, under this Agreement in connection with Draper Aden Associates' services.

Conclusions presented are based upon a review of available information, the results of our field studies, and/or professional judgment. To the best of our knowledge, information provided by others is true and accurate, unless otherwise noted.

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Draper Aden Associates
Engineering ♦ Surveying ♦ Environmental Services

This Report has been prepared by:

Kathy Olsen, Environmental Scientist — Date: 7-8/2011
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, kolsen@daa.com, www.daa.com

This Report has been subjected to technical and quality review by:

Janet C. Frazier, Project Manager — Date: 7/8/2011
2206 South Main Street, Blacksburg, Virginia 24060
540-552-0444, jfrazier@daa.com, www.daa.com

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering • Surveying • Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)		CRQL (ug/L)	Validation Notes
Method: ILM05.4							
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC							
Barium	MW-2	214		214		200	No action taken.
	MW-3	156	J	156	J	200	Result < CRQL.
	MW-8	48.5	J	48.5	J	200	Result < CRQL.
	MW-9	612		612		200	No action taken.
	MW-12	303		303		200	No action taken.
	MW-17	355		355		200	No action taken.
Chromium	MW-3	7.4	J	7.4	J	10	Result < CRQL.
	MW-8	8.7	J	8.7	J	10	Result < CRQL.
Cobalt	MW-3	1.1	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.41-0.88 ug/l).
	MW-8	2.3	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.41-0.88 ug/l).
	MW-9	8.2	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.41-0.88 ug/l).
	MW-12	7.4	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.41-0.88 ug/l).
	MW-17	3.3	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.41-0.88 ug/l).
Iron	MW-3	3040		3040		100	No action taken.
	MW-8	3200		3200		100	No action taken.
	MW-9	545		545		100	No action taken.
	MW-12	95.9	J	95.9	J	100	Result < CRQL.
	MW-17	249		249		100	No action taken.
Nickel	MW-3	6.5	J	U		40	Result < CRQL. Blank contamination in the calibration blanks (0.57-0.77 ug/l).
	MW-8	5.8	J	U		40	Result < CRQL. Blank contamination in the calibration blanks (0.57-0.77 ug/l).
	MW-9	3.8	J	U		40	Result < CRQL. Blank contamination in the calibration blanks (0.57-0.77 ug/l).
	MW-12	3.7	J	U		40	Result < CRQL. Blank contamination in the calibration blanks (0.57-0.77 ug/l).
	MW-17	2.2	J	U		40	Result < CRQL. Blank contamination in the calibration blanks (0.57-0.77 ug/l).
Vanadium	MW-2	1.4	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).
	MW-3	5.9	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).
	MW-8	7.3	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).
	MW-9	1	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).
	MW-12	0.85	J	U		50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).

Definitions: CRQL Denotes contract required quantitation limit. **B or J** Denote result < CRQL, an estimated value (a laboratory data qualifier). **R** Denotes result is rejected.
J Denotes result is estimated (data validation qualifier). Target analytes not listed above were not detected above detection limit and no data qualification was required.

Data Validation Report for Inorganics Fraction. Monitoring Event: 3/16/2011

Draper Aden Associates
Engineering • Surveying • Environmental Services

Watauga County Landfill Facility ID 95-02

Analyte	Sample ID	Laboratory Results (ug/L)		Validated Results (ug/L)	CRQL (ug/L)	Validation Notes
Method: ILM05.4						
Laboratory: CompuChem, a Division of Liberty Analytical, Cary, NC						
Vanadium	MW-17	0.96	J	U	50	Result < CRQL. Blank contamination in the calibration blanks (0.44-0.48 ug/l).

Definitions: CRQL Denotes contract required quantitation limit. **B or J** Denote result < CRQL, an estimated value (a laboratory data qualifier). **R** Denotes result is rejected.
J Denotes result is estimated (data validation qualifier). Target analytes not listed above were not detected above detection limit and no data qualification was required.

CompuChem

A Division Of

Liberty Analytical Corp.

3/25/2011

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1103087

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER **Work:** 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39 **Sdg:** 1103087

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1103087-01	MW-3	Water	03/17/2011 11:45	03/18/2011 09:30
1103087-02	MW-2	Water	03/16/2011 15:00	03/18/2011 09:30
1103087-03	MW-8	Water	03/17/2011 12:15	03/18/2011 09:30
1103087-04	MW-9	Water	03/16/2011 12:30	03/18/2011 09:30
1103087-05	MW-12	Water	03/17/2011 13:00	03/18/2011 09:30
1103087-06	MW-17	Water	03/17/2011 12:40	03/18/2011 09:30
1103087-07	TRIPBLANK	Water	03/15/2011 00:00	03/18/2011 09:30

ANALYSES DATA PACKAGE COVER PAGE

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

Laboratory: COMPUCHEM

SDG: 1103087

Client Sample Id:	Lab Sample Id:
MW-3	1103087-01
MW-2	1103087-02
MW-2	1103087-02RE1
MW-8	1103087-03
MW-9	1103087-04
MW-12	1103087-05
MW-17	1103087-06
TRIPBLANK	1103087-07

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 and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: S.A. Parikh

Name: SAROJ A. PARIKH

Date: 03/24/11

Title: Data Reviewer II

CompuChem
A Division Of
Liberty Analytical Corp.

CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA SUMMARY PACKAGE

GC/MS by SW-846

The sample data summary package shall contain data for all samples in one Workorder/Sample Delivery Group (SDG), as follows:

A. SDG Narrative

B. Target Compound Results
(ANALYSIS DATA SHEET)

C. Laboratory Control Sample Results
(LCS/LCS DUPLICATE RECOVERY)

D. Matrix Spike Results
(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

E. Surrogate Recovery Results
(SURROGATE STANDARD RECOVERY AND RT SUMMARY)

F. Internal Standard Results
(INTERNAL STANDARD AREA AND RT SUMMARY)

G. Blank data
(PREPARATION BATCH SUMMARY)

H. Sample Preparation and Analysis Holding Time Data
(HOLDING TIME SUMMARY)

METHOD: 8260B

SDG: 1103087

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1103087
Project: WATAUGA COUNTY LANDFILL 6520-39
PROTOCOL: SW-846 – 8260B
Date: March 24, 2011

EPA Sample Number	Volatile Fraction	DL/RE	pH value of the Aqueous sample
MW-2	Yes	Yes	1
MW-3	Yes	No	1
MW-3MS	Yes	No	1
MW-3MSD	Yes	No	1
MW-8	Yes	No	1
MW-9	Yes	No	1
MW-12	Yes	No	1
MW-17	Yes	No	1
TRIPBLANK	Yes	No	1

The nine (9) aqueous samples listed above were received intact, with proper documentation, in a sealed shipping container, on March 18, 2011. The cooler temperature associated with these samples was 2.7 °C.

The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for this SDG are included in the sample data sections. This portion of the narrative deals with the volatile fraction only.

Volatile:

Analysis holding time requirements were met for all samples in this SDG.

The pH value was equal to 1 for all samples in this SDG.

Three (3) or more volatile target compound list (TCL) analytes were identified above the Contract Required Quantitation Limits (CRQLs) in samples MW-2, MW-2DL, MW-3, MW-9, MW-12, and MW-17.

One (1) or more Tentatively Identified Compounds (TICs) were found in samples MW-9, MW-12, and MW-17.

In the initial analysis of sample MW-2, the on-column amount of 1,1,1-Trichloroethane target analyte exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. This sample was re-analyzed at a 6.25x dilution in order to bring the on-column amount into the range. We have reported both analysis of this sample.

.All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of the samples.

All of the internal standards met response and retention time criteria in the analyses of the samples.

Manual integrations were not performed on any of the process files associated with this SDG.

The associated method blank met all quality control criteria.

Sample MW-3 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all accuracy and precision criteria.

The associated Laboratory Control Sample met all accuracy criteria.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S. A. Parikh

Saroj A. Parikh
Data Reviewer II
March 24, 2011

GC and GC/MS Column and Trap Specifications Table

SDG #:	1103087

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-5MS	0.53	1.0	30
	Restek	clpest	0.32	0.5	30
	Restek	clpest2	0.32	0.25	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Pinnacle II Biphenyl	4.6	5.0	15 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 30

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.

Note: This table also contains HPLC columns.

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CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The "S" flag is not utilized for non CLP analyses.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Target Compound Results

(ANALYSIS DATA SHEETS)

Organic Analysis Data Sheets (OADS), Tentatively Identified Compounds (TICs) and Surrogate Recovery Results

- All samples in alphanumeric order

ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0291.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:55

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene	39	0.040	0.50	
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.19	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane	21	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane	140	0.020	0.50	E
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	0.22	0.030	0.50	J
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0291.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:55

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	1.3	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.202	104	65 - 150	
1,2-Dichloroethane-d4	5.000	5.031	101	59 - 150	
Toluene-d8	5.000	5.215	104	61 - 145	
Bromofluorobenzene	5.000	4.885	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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ANALYSIS DATA SHEET

SW 8260B

MW-2DL

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-02D91.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02RE1 | Received: 03/18/11 09:30

Dilution: 6.25 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:48

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.19	3.1	U
74-87-3	Chloromethane		0.69	3.1	U
75-01-4	Vinyl chloride		0.44	3.1	U
74-83-9	Bromomethane		0.69	3.1	U
75-00-3	Chloroethane		1.3	3.1	U
75-69-4	Trichlorofluoromethane		0.38	3.1	U
107-02-8	Acrolein		6.4	31	U
75-35-4	1,1-Dichloroethene	41	0.25	3.1	D
67-64-1	Acetone		2.8	16	U
74-88-4	Iodomethane		0.19	3.1	U
75-15-0	Carbon disulfide		0.13	3.1	U
107-05-1	3-Chloropropene		0.31	3.1	U
75-05-8	Acetonitrile		0.19	3.1	U
75-09-2	Methylene chloride		0.13	3.1	U
107-13-1	Acrylonitrile		2.3	31	U
156-60-5	trans-1,2-Dichloroethene		0.31	3.1	U
75-34-3	1,1-Dichloroethane	21	0.13	3.1	D
126-99-8	Chloroprene		0.13	3.1	U
108-05-4	Vinyl acetate		0.38	6.3	U
156-59-2	cis-1,2-Dichloroethene		0.19	3.1	U
594-20-7	2,2-Dichloropropane		0.19	3.1	U
107-12-0	Propionitrile		8.8	160	U
78-93-3	2-Butanone		1.8	16	U
126-98-7	Methacrylonitrile		2.4	31	U
74-97-5	Bromochloromethane		0.25	3.1	U
67-66-3	Chloroform		0.19	3.1	U
71-55-6	1,1,1-Trichloroethane	160	0.13	3.1	D
563-58-6	1,1-Dichloropropene		0.19	3.1	U
56-23-5	Carbon tetrachloride		0.19	3.1	U
107-06-2	1,2-Dichloroethane		0.19	3.1	U
78-83-1	Isobutyl alcohol		37	160	U
71-43-2	Benzene		0.19	3.1	U
79-01-6	Trichloroethene		0.19	3.1	U
78-87-5	1,2-Dichloropropane		0.75	3.1	U
74-95-3	Dibromomethane		0.19	3.1	U
80-62-6	Methyl Methacrylate		3.5	31	U
75-27-4	Bromodichloromethane		0.19	3.1	U
10061-01-5	cis-1,3-Dichloropropene		0.25	3.1	U
108-10-1	4-Methyl-2-pentanone		2.6	16	U

ANALYSIS DATA SHEET

SW 8260B

MW-2DL

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-02D91.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02RE1 | Received: 03/18/11 09:30

Dilution: 6.25 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:48

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.19	3.1	U
10061-02-6	trans-1,3-Dichloropropene		0.31	3.1	U
79-00-5	1,1,2-Trichloroethane		0.25	3.1	U
97-63-2	Ethyl Methacrylate		2.6	31	U
142-28-9	1,3-Dichloropropane		0.19	3.1	U
127-18-4	Tetrachloroethene	1.3	0.38	3.1	JD
591-78-6	2-Hexanone		3.2	16	U
124-48-1	Dibromochloromethane		0.25	3.1	U
108-90-7	Chlorobenzene		0.13	3.1	U
630-20-6	1,1,1,2-Tetrachloroethane		0.13	3.1	U
100-41-4	Ethylbenzene		0.25	3.1	U
179601-23-1	m,p-Xylene		0.50	6.3	U
95-47-6	o-Xylene		0.19	3.1	U
100-42-5	Styrene		0.13	3.1	U
75-25-2	Bromoform		0.19	3.1	U
79-34-5	1,1,2,2-Tetrachloroethane		0.31	3.1	U
96-18-4	1,2,3-Trichloropropane		0.56	3.1	U
110-57-6	trans-1,4-Dichloro-2-butene		2.1	13	U
541-73-1	1,3-Dichlorobenzene		0.25	3.1	U
106-46-7	1,4-Dichlorobenzene		0.19	3.1	U
95-50-1	1,2-Dichlorobenzene		0.19	3.1	U
120-82-1	1,2,4-Trichlorobenzene		0.38	3.1	U
87-68-3	Hexachlorobutadiene		0.19	3.1	U
91-20-3	Naphthalene		0.94	3.1	U
1330-20-7	Xylenes (total)		0.19	3.1	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.486	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.259	105	59 - 150	
Toluene-d8	5.000	5.268	105	61 - 145	
Bromofluorobenzene	5.000	4.909	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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ANALYSIS DATA SHEET

SW 8260B

MW-3

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0191.d | Sampled: 03/17/11 11:45

Initial/Final: 25mL / 25mL | Lab ID: 1103087-01 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:26

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	1.9	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.11	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.26	0.050	0.50	J
75-34-3	1,1-Dichloroethane	7.5	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	17	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform	0.18	0.030	0.50	J
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	2.1	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.21	0.12	0.50	J
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-3

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0191.d | Sampled: 03/17/11 11:45

Initial/Final: 25mL / 25mL | Lab ID: 1103087-01 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:26

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.19	0.060	0.50	J
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.875	97	65 - 150	
1,2-Dichloroethane-d4	5.000	4.383	88	59 - 150	
Toluene-d8	5.000	5.550	111	61 - 145	
Bromofluorobenzene	5.000	5.134	103	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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SW 8260B

MW-8

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0391.d | Sampled: 03/17/11 12:15

Initial/Final: 25mL / 25mL | Lab ID: 1103087-03 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:24

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.14	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane	0.12	0.020	0.50	J
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.042	0.030	0.50	J
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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SW 8260B

MW-8

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0391.d | Sampled: 03/17/11 12:15

Initial/Final: 25mL / 25mL | Lab ID: 1103087-03 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:24

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.538	111	65 - 150	
1,2-Dichloroethane-d4	5.000	5.385	108	59 - 150	
Toluene-d8	5.000	5.382	108	61 - 145	
Bromofluorobenzene	5.000	5.107	102	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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SW 8260B

MW-9

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0491.d | Sampled: 03/16/11 12:30

Initial/Final: 25mL / 25mL | Lab ID: 1103087-04 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:52

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	0.49	0.030	0.50	J
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride	1.2	0.070	0.50	
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	1.9	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.47	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.24	0.050	0.50	J
75-34-3	1,1-Dichloroethane	7.7	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	5.2	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene	2.0	0.030	0.50	
79-01-6	Trichloroethene	0.83	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.15	0.12	0.50	J
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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SW 8260B

MW-9

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0491.d | Sampled: 03/16/11 12:30

Initial/Final: 25mL / 25mL | Lab ID: 1103087-04 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:52

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.56	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene	0.37	0.020	0.50	J
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene	1.7	0.030	0.50	
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.314	106	65 - 150	
1,2-Dichloroethane-d4	5.000	5.176	104	59 - 150	
Toluene-d8	5.000	5.206	104	61 - 145	
Bromofluorobenzene	5.000	4.859	97	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
60-29-7	Ethyl Ether	0.93	244479	6.49	90	JN
NA	Unknown 5.905	0.77	202827	5.905	0	J
NA	Unknown 7.106	0.36	95773	7.106	0	J

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SW 8260B

MW-12

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0591.d | Sampled: 03/17/11 13:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-05 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:21

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride	1.2	0.070	0.50	
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	6.4	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene	0.25	0.040	0.50	J
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.79	0.020	0.50	
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.44	0.050	0.50	J
75-34-3	1,1-Dichloroethane	17	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	35	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform	0.31	0.030	0.50	J
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane	0.32	0.030	0.50	J
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene	0.15	0.030	0.50	J
79-01-6	Trichloroethene	3.4	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.54	0.12	0.50	
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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SW 8260B

MW-12

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0591.d | Sampled: 03/17/11 13:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-05 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:21

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	1.7	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene	0.21	0.020	0.50	J
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene	1.7	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	0.14	0.030	0.50	J
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.498	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.341	107	59 - 150	
Toluene-d8	5.000	5.227	105	61 - 145	
Bromofluorobenzene	5.000	4.925	99	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
	1,3-Dichloro-2-methyl-propene	0.32	92939	12.123	91	JN
000075-45-6	Difluorochloromethane	3.0	787132	3.862	86	JN
60-29-7	Ethyl Ether	3.2	829300	6.49	86	JN
000075-43-4	Fluorodichloromethane	0.55	141937	5.905	97	JN
NA	Unknown 10.910	0.21	55012	10.91	0	J

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ANALYSIS DATA SHEET

SW 8260B

MW-17

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0691.d | Sampled: 03/17/11 12:40

Initial/Final: 25mL / 25mL | Lab ID: 1103087-06 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:50

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.43	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.059	0.050	0.50	J
75-34-3	1,1-Dichloroethane	2.0	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.5	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	0.66	0.030	0.50	
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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SW 8260B

MW-17

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0691.d | Sampled: 03/17/11 12:40

Initial/Final: 25mL / 25mL | Lab ID: 1103087-06 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:50

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.53	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.508	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.338	107	59 - 150	
Toluene-d8	5.000	5.333	107	61 - 145	
Bromofluorobenzene	5.000	4.896	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Unknown 7.105	0.19	48498	7.105	0	J

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SW 8260B

TRIPBLANK

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0791.d | Sampled: 03/15/11 00:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-07 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:19

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.37	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

ANALYSIS DATA SHEET

SW 8260B

TRIPBLANK

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0791.d | Sampled: 03/15/11 00:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-07 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:19

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.463	109	65 - 150	
1,2-Dichloroethane-d4	5.000	5.332	107	59 - 150	
Toluene-d8	5.000	5.259	105	61 - 145	
Bromofluorobenzene	5.000	4.865	97	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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SW 8260B

VKTLCS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BS191.d | QC Type: LCS

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BS1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 19:32

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.353	0.030	0.50	
74-87-3	Chloromethane	5.257	0.11	0.50	
75-01-4	Vinyl chloride	5.301	0.070	0.50	
74-83-9	Bromomethane	5.496	0.11	0.50	
75-00-3	Chloroethane	4.965	0.20	0.50	
75-69-4	Trichlorofluoromethane	5.642	0.060	0.50	
107-02-8	Acrolein	51.53	1.0	5.0	
75-35-4	1,1-Dichloroethene	5.474	0.040	0.50	
67-64-1	Acetone	26.06	0.44	2.5	
74-88-4	Iodomethane	4.494	0.030	0.50	
75-15-0	Carbon disulfide	5.622	0.020	0.50	
107-05-1	3-Chloropropene	5.473	0.050	0.50	
75-05-8	Acetonitrile	5.245	0.030	0.50	
75-09-2	Methylene chloride	5.621	0.020	0.50	
107-13-1	Acrylonitrile	54.47	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.274	0.050	0.50	
75-34-3	1,1-Dichloroethane	5.442	0.020	0.50	
126-99-8	Chloroprene	5.086	0.020	0.50	
108-05-4	Vinyl acetate	10.64	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	5.365	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.201	0.030	0.50	
107-12-0	Propionitrile	282.7	1.4	25	
78-93-3	2-Butanone	25.13	0.28	2.5	
126-98-7	Methacrylonitrile	57.80	0.39	5.0	
74-97-5	Bromochloromethane	5.404	0.040	0.50	
67-66-3	Chloroform	5.387	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.273	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.468	0.030	0.50	
56-23-5	Carbon tetrachloride	5.321	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.490	0.030	0.50	
78-83-1	Isobutyl alcohol	260.6	5.9	25	
71-43-2	Benzene	5.347	0.030	0.50	
79-01-6	Trichloroethene	5.122	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.488	0.12	0.50	
74-95-3	Dibromomethane	5.449	0.030	0.50	
80-62-6	Methyl Methacrylate	60.23	0.56	5.0	
75-27-4	Bromodichloromethane	5.351	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	5.153	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	26.44	0.42	2.5	

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ANALYSIS DATA SHEET

SW 8260B

VKTLCS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BS191.d | QC Type: LCS

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BS1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 19:32

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.086	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.429	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.201	0.040	0.50	
97-63-2	Ethyl Methacrylate	56.31	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.459	0.030	0.50	
127-18-4	Tetrachloroethene	3.756	0.060	0.50	
591-78-6	2-Hexanone	26.46	0.51	2.5	
124-48-1	Dibromochloromethane	5.025	0.040	0.50	
108-90-7	Chlorobenzene	5.081	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	5.064	0.020	0.50	
100-41-4	Ethylbenzene	5.218	0.040	0.50	
179601-23-1	m,p-Xylene	10.52	0.080	1.0	
95-47-6	o-Xylene	5.275	0.030	0.50	
100-42-5	Styrene	5.267	0.020	0.50	
75-25-2	Bromoform	4.935	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.299	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	5.376	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	20.78	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	5.112	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.962	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	5.014	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	5.089	0.060	0.50	
87-68-3	Hexachlorobutadiene	5.199	0.030	0.50	
91-20-3	Naphthalene	4.881	0.15	0.50	
1330-20-7	Xylenes (total)	15.80	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.363	107	65 - 150	
1,2-Dichloroethane-d4	5.000	5.500	110	59 - 150	
Toluene-d8	5.000	5.159	103	61 - 145	
Bromofluorobenzene	5.000	5.026	101	63 - 143	

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ANALYSIS DATA SHEET

SW 8260B

MW-3MS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MS191.d | QC Type: Matrix Spike

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MS1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:17

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.912	0.030	0.50	
74-87-3	Chloromethane	5.744	0.11	0.50	
75-01-4	Vinyl chloride	6.250	0.070	0.50	
74-83-9	Bromomethane	6.425	0.11	0.50	
75-00-3	Chloroethane	7.372	0.20	0.50	
75-69-4	Trichlorofluoromethane	6.415	0.060	0.50	
107-02-8	Acrolein	45.96	1.0	5.0	
75-35-4	1,1-Dichloroethene	6.272	0.040	0.50	
67-64-1	Acetone	26.81	0.44	2.5	
74-88-4	Iodomethane	4.562	0.030	0.50	
75-15-0	Carbon disulfide	6.411	0.020	0.50	
107-05-1	3-Chloropropene	6.001	0.050	0.50	
75-05-8	Acetonitrile	5.813	0.030	0.50	
75-09-2	Methylene chloride	6.108	0.020	0.50	
107-13-1	Acrylonitrile	48.15	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.806	0.050	0.50	
75-34-3	1,1-Dichloroethane	12.63	0.020	0.50	
126-99-8	Chloroprene	5.446	0.020	0.50	
108-05-4	Vinyl acetate	10.07	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	22.20	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.923	0.030	0.50	
107-12-0	Propionitrile	257.1	1.4	25	
78-93-3	2-Butanone	22.18	0.28	2.5	
126-98-7	Methacrylonitrile	51.61	0.39	5.0	
74-97-5	Bromochloromethane	5.409	0.040	0.50	
67-66-3	Chloroform	5.745	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.649	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.846	0.030	0.50	
56-23-5	Carbon tetrachloride	5.774	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.473	0.030	0.50	
78-83-1	Isobutyl alcohol	244.4	5.9	25	
71-43-2	Benzene	5.486	0.030	0.50	
79-01-6	Trichloroethene	7.279	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.801	0.12	0.50	
74-95-3	Dibromomethane	5.202	0.030	0.50	
80-62-6	Methyl Methacrylate	54.42	0.56	5.0	
75-27-4	Bromodichloromethane	5.224	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.868	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	23.47	0.42	2.5	

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

MW-3MS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MS191.d | QC Type: Matrix Spike

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MS1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:17

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.188	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.128	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	4.844	0.040	0.50	
97-63-2	Ethyl Methacrylate	52.38	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.075	0.030	0.50	
127-18-4	Tetrachloroethene	4.036	0.060	0.50	
591-78-6	2-Hexanone	22.94	0.51	2.5	
124-48-1	Dibromochloromethane	4.723	0.040	0.50	
108-90-7	Chlorobenzene	5.089	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	4.987	0.020	0.50	
100-41-4	Ethylbenzene	5.121	0.040	0.50	
179601-23-1	m,p-Xylene	10.34	0.080	1.0	
95-47-6	o-Xylene	5.066	0.030	0.50	
100-42-5	Styrene	5.023	0.020	0.50	
75-25-2	Bromoform	4.382	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	4.697	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	4.812	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	19.53	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	4.613	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.611	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	4.629	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.020	0.060	0.50	
87-68-3	Hexachlorobutadiene	4.484	0.030	0.50	
91-20-3	Naphthalene	3.603	0.15	0.50	
1330-20-7	Xylenes (total)	15.40	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.382	108	65 - 150	
1,2-Dichloroethane-d4	5.000	5.186	104	59 - 150	
Toluene-d8	5.000	5.083	102	61 - 145	
Bromofluorobenzene	5.000	4.766	95	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

MW-3MSD

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MSD191.d | QC Type: Matrix Spike Dup

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MSD1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:46

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.908	0.030	0.50	
74-87-3	Chloromethane	5.887	0.11	0.50	
75-01-4	Vinyl chloride	6.120	0.070	0.50	
74-83-9	Bromomethane	5.989	0.11	0.50	
75-00-3	Chloroethane	7.395	0.20	0.50	
75-69-4	Trichlorofluoromethane	6.324	0.060	0.50	
107-02-8	Acrolein	49.57	1.0	5.0	
75-35-4	1,1-Dichloroethene	5.999	0.040	0.50	
67-64-1	Acetone	27.19	0.44	2.5	
74-88-4	Iodomethane	5.057	0.030	0.50	
75-15-0	Carbon disulfide	6.176	0.020	0.50	
107-05-1	3-Chloropropene	5.933	0.050	0.50	
75-05-8	Acetonitrile	5.786	0.030	0.50	
75-09-2	Methylene chloride	5.914	0.020	0.50	
107-13-1	Acrylonitrile	49.42	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.618	0.050	0.50	
75-34-3	1,1-Dichloroethane	12.29	0.020	0.50	
126-99-8	Chloroprene	5.323	0.020	0.50	
108-05-4	Vinyl acetate	10.18	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	21.77	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.700	0.030	0.50	
107-12-0	Propionitrile	259.2	1.4	25	
78-93-3	2-Butanone	23.16	0.28	2.5	
126-98-7	Methacrylonitrile	52.56	0.39	5.0	
74-97-5	Bromochloromethane	5.249	0.040	0.50	
67-66-3	Chloroform	5.578	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.475	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.680	0.030	0.50	
56-23-5	Carbon tetrachloride	5.571	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.405	0.030	0.50	
78-83-1	Isobutyl alcohol	256.5	5.9	25	
71-43-2	Benzene	5.348	0.030	0.50	
79-01-6	Trichloroethene	7.123	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.657	0.12	0.50	
74-95-3	Dibromomethane	5.141	0.030	0.50	
80-62-6	Methyl Methacrylate	56.16	0.56	5.0	
75-27-4	Bromodichloromethane	5.196	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.908	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	24.49	0.42	2.5	

ANALYSIS DATA SHEET

SW 8260B

MW-3MSD

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MSD191.d | QC Type: Matrix Spike Dup

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MSD1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:46

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.055	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.153	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	4.863	0.040	0.50	
97-63-2	Ethyl Methacrylate	53.65	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.100	0.030	0.50	
127-18-4	Tetrachloroethene	4.019	0.060	0.50	
591-78-6	2-Hexanone	24.20	0.51	2.5	
124-48-1	Dibromochloromethane	4.731	0.040	0.50	
108-90-7	Chlorobenzene	5.087	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	4.955	0.020	0.50	
100-41-4	Ethylbenzene	5.166	0.040	0.50	
179601-23-1	m,p-Xylene	10.56	0.080	1.0	
95-47-6	o-Xylene	5.241	0.030	0.50	
100-42-5	Styrene	5.064	0.020	0.50	
75-25-2	Bromoform	4.542	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	4.726	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	4.997	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	20.21	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	4.876	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.905	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	4.856	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.637	0.060	0.50	
87-68-3	Hexachlorobutadiene	5.047	0.030	0.50	
91-20-3	Naphthalene	4.275	0.15	0.50	
1330-20-7	Xylenes (total)	15.80	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.247	105	65 - 150	
1,2-Dichloroethane-d4	5.000	5.177	104	59 - 150	
Toluene-d8	5.000	4.914	98	61 - 145	
Bromofluorobenzene	5.000	4.628	93	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories

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C. Laboratory Control Sample Results

(LCS/LCS DUPLICATE RECOVERY)

LCS/LCSD recovery, relative percent difference and quality control acceptance criteria

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	5.000	5.353	107		50 - 150
Chloromethane	5.000	5.257	105		50 - 150
Vinyl chloride	5.000	5.301	106		61 - 150
Bromomethane	5.000	5.496	110		50 - 150
Chloroethane	5.000	4.965	99		54 - 150
Trichlorofluoromethane	5.000	5.642	113		56 - 150
Acrolein	50.00	51.53	103		50 - 150
1,1-Dichloroethene	5.000	5.474	109		74 - 143
Acetone	25.00	26.06	104		50 - 150
Iodomethane	5.000	4.494	90		50 - 150
Carbon disulfide	5.000	5.622	112		50 - 150
3-Chloropropene	5.000	5.473	109		50 - 150
Acetonitrile	5.000	5.245	105		50 - 150
Methylene chloride	5.000	5.621	112		50 - 139
Acrylonitrile	50.00	54.47	109		50 - 150
trans-1,2-Dichloroethene	5.000	5.274	105		50 - 137
1,1-Dichloroethane	5.000	5.442	109		59 - 138
Chloroprene	5.000	5.086	102		50 - 150
Vinyl acetate	10.00	10.64	106		50 - 150
cis-1,2-Dichloroethene	5.000	5.365	107		69 - 140
2,2-Dichloropropane	5.000	5.201	104		50 - 150
Propionitrile	250.0	282.7	113		50 - 150
2-Butanone	25.00	25.13	101		65 - 134
Methacrylonitrile	50.00	57.80	116		50 - 150
Bromochloromethane	5.000	5.404	108		50 - 150
Chloroform	5.000	5.387	108		67 - 147
1,1,1-Trichloroethane	5.000	5.273	105		71 - 137
1,1-Dichloropropene	5.000	5.468	109		50 - 150
Carbon tetrachloride	5.000	5.321	106		68 - 145
1,2-Dichloroethane	5.000	5.490	110		61 - 150

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Isobutyl alcohol	250.0	260.6	104		50 - 150
Benzene	5.000	5.347	107		68 - 138
Trichloroethene	5.000	5.122	102		55 - 150
1,2-Dichloropropane	5.000	5.488	110		67 - 137
Dibromomethane	5.000	5.449	109		50 - 150
Methyl Methacrylate	50.00	60.23	120		50 - 150
Bromodichloromethane	5.000	5.351	107		73 - 142
cis-1,3-Dichloropropene	5.000	5.153	103		74 - 134
4-Methyl-2-pentanone	25.00	26.44	106		66 - 127
Toluene	5.000	5.086	102		60 - 142
trans-1,3-Dichloropropene	5.000	5.429	109		66 - 130
1,1,2-Trichloroethane	5.000	5.201	104		68 - 130
Ethyl Methacrylate	50.00	56.31	113		50 - 150
1,3-Dichloropropane	5.000	5.459	109		50 - 150
Tetrachloroethene	5.000	3.756	75		65 - 137
2-Hexanone	25.00	26.46	106		53 - 140
Dibromochloromethane	5.000	5.025	100		68 - 137
Chlorobenzene	5.000	5.081	102		68 - 129
1,1,1,2-Tetrachloroethane	5.000	5.064	101		50 - 150
Ethylbenzene	5.000	5.218	104		67 - 127
m,p-Xylene	10.00	10.52	105		60 - 140
o-Xylene	5.000	5.275	106		60 - 140
Styrene	5.000	5.267	105		66 - 139
Bromoform	5.000	4.935	99		62 - 138
1,1,2,2-Tetrachloroethane	5.000	5.299	106		63 - 122
1,2,3-Trichloropropane	5.000	5.376	108		50 - 150
trans-1,4-Dichloro-2-butene	20.00	20.78	104		50 - 150
1,3-Dichlorobenzene	5.000	5.112	102		64 - 136
1,4-Dichlorobenzene	5.000	4.962	99		69 - 125
1,2-Dichlorobenzene	5.000	5.014	100		71 - 127
1,2,4-Trichlorobenzene	5.000	5.089	102		52 - 147

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Hexachlorobutadiene	5.000	5.199	104		50 - 150
Naphthalene	5.000	4.881	98		50 - 150
Xylenes (total)	15.00	15.80	105		60 - 140

D. Matrix Spike Results

(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

MS/MSD recovery, relative percent difference and quality control acceptance criteria

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MS

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MS1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	5.000	0.50 U	5.912	118		50 - 150
Chloromethane	5.000	0.50 U	5.744	115		50 - 150
Vinyl chloride	5.000	0.50 U	6.250	125		61 - 150
Bromomethane	5.000	0.50 U	6.425	128		50 - 150
Chloroethane	5.000	1.9	7.372	109		54 - 150
Trichlorofluoromethane	5.000	0.50 U	6.415	128		56 - 150
Acrolein	50.00	5.0 U	45.96	92		50 - 150
1,1-Dichloroethene	5.000	0.50 U	6.272	125		74 - 143
Acetone	25.00	2.5 U	26.81	107		50 - 150
Iodomethane	5.000	0.50 U	4.562	91		50 - 150
Carbon disulfide	5.000	0.50 U	6.411	128		50 - 150
3-Chloropropene	5.000	0.50 U	6.001	120		50 - 150
Acetonitrile	5.000	0.50 U	5.813	116		50 - 150
Methylene chloride	5.000	0.50 U	6.108	120		50 - 139
Acrylonitrile	50.00	5.0 U	48.15	96		50 - 150
trans-1,2-Dichloroethene	5.000	0.50 U	5.806	111		50 - 137
1,1-Dichloroethane	5.000	7.5	12.63	103		59 - 138
Chloroprene	5.000	0.50 U	5.446	109		50 - 150
Vinyl acetate	10.00	1.0 U	10.07	101		50 - 150
cis-1,2-Dichloroethene	5.000	17	22.20	104		69 - 140
2,2-Dichloropropane	5.000	0.50 U	5.923	118		50 - 150
Propionitrile	250.0	25 U	257.1	103		50 - 150
2-Butanone	25.00	2.5 U	22.18	89		65 - 134
Methacrylonitrile	50.00	5.0 U	51.61	103		50 - 150
Bromochloromethane	5.000	0.50 U	5.409	108		50 - 150
Chloroform	5.000	0.50 U	5.745	111		67 - 147
1,1,1-Trichloroethane	5.000	0.50 U	5.649	113		71 - 137
1,1-Dichloropropene	5.000	0.50 U	5.846	117		50 - 150
Carbon tetrachloride	5.000	0.50 U	5.774	115		68 - 145
1,2-Dichloroethane	5.000	0.50 U	5.473	109		61 - 150
Isobutyl alcohol	250.0	25 U	244.4	98		50 - 150
Benzene	5.000	0.50 U	5.486	110		68 - 138
Trichloroethene	5.000	2.1	7.279	103		55 - 150
1,2-Dichloropropane	5.000	0.50 U	5.801	112		67 - 137

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MS

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MS1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Dibromomethane	5.000	0.50 U	5.202	104		50 - 150
Methyl Methacrylate	50.00	5.0 U	54.42	109		50 - 150
Bromodichloromethane	5.000	0.50 U	5.224	104		73 - 142
cis-1,3-Dichloropropene	5.000	0.50 U	4.868	97		74 - 134
4-Methyl-2-pentanone	25.00	2.5 U	23.47	94		66 - 127
Toluene	5.000	0.50 U	5.188	104		60 - 142
trans-1,3-Dichloropropene	5.000	0.50 U	5.128	103		66 - 130
1,1,2-Trichloroethane	5.000	0.50 U	4.844	97		68 - 130
Ethyl Methacrylate	50.00	5.0 U	52.38	105		50 - 150
1,3-Dichloropropane	5.000	0.50 U	5.075	102		50 - 150
Tetrachloroethene	5.000	0.50 U	4.036	77		65 - 137
2-Hexanone	25.00	2.5 U	22.94	92		53 - 140
Dibromochloromethane	5.000	0.50 U	4.723	94		68 - 137
Chlorobenzene	5.000	0.50 U	5.089	102		68 - 129
1,1,1,2-Tetrachloroethane	5.000	0.50 U	4.987	100		50 - 150
Ethylbenzene	5.000	0.50 U	5.121	102		67 - 127
m,p-Xylene	10.00	1.0 U	10.34	103		60 - 140
o-Xylene	5.000	0.50 U	5.066	101		60 - 140
Styrene	5.000	0.50 U	5.023	100		66 - 139
Bromoform	5.000	0.50 U	4.382	88		62 - 139
1,1,2,2-Tetrachloroethane	5.000	0.50 U	4.697	94		63 - 122
1,2,3-Trichloropropane	5.000	0.50 U	4.812	96		50 - 150
trans-1,4-Dichloro-2-butene	20.00	2.0 U	19.53	98		50 - 150
1,3-Dichlorobenzene	5.000	0.50 U	4.613	92		64 - 136
1,4-Dichlorobenzene	5.000	0.50 U	4.611	92		69 - 125
1,2-Dichlorobenzene	5.000	0.50 U	4.629	93		71 - 127
1,2,4-Trichlorobenzene	5.000	0.50 U	4.020	80		52 - 147
Hexachlorobutadiene	5.000	0.50 U	4.484	90		50 - 150
Naphthalene	5.000	0.50 U	3.603	72		50 - 150
Xylenes (total)	15.00	0.50 U	15.40	103		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MSD

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MSD1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	5.000	5.908	118	0.06		25	50 - 150
Chloromethane	5.000	5.887	118	2		25	50 - 150
Vinyl chloride	5.000	6.120	122	2		25	61 - 150
Bromomethane	5.000	5.989	120	7		25	50 - 150
Chloroethane	5.000	7.395	109	0.3		25	54 - 150
Trichlorofluoromethane	5.000	6.324	126	1		25	56 - 150
Acrolein	50.00	49.57	99	8		25	50 - 150
1,1-Dichloroethene	5.000	5.999	120	4		14	74 - 143
Acetone	25.00	27.19	109	1		25	50 - 150
Iodomethane	5.000	5.057	101	10		25	50 - 150
Carbon disulfide	5.000	6.176	124	4		25	50 - 150
3-Chloropropene	5.000	5.933	119	1		25	50 - 150
Acetonitrile	5.000	5.786	116	0.5		25	50 - 150
Methylene chloride	5.000	5.914	116	3		25	50 - 139
Acrylonitrile	50.00	49.42	99	3		25	50 - 150
trans-1,2-Dichloroethene	5.000	5.618	107	3		25	50 - 137
1,1-Dichloroethane	5.000	12.29	96	3		25	59 - 138
Chloroprene	5.000	5.323	106	2		25	50 - 150
Vinyl acetate	10.00	10.18	102	1		25	50 - 150
cis-1,2-Dichloroethene	5.000	21.77	95	2		25	69 - 140
2,2-Dichloropropane	5.000	5.700	114	4		25	50 - 150
Propionitrile	250.0	259.2	104	0.8		25	50 - 150
2-Butanone	25.00	23.16	93	4		25	65 - 134
Methacrylonitrile	50.00	52.56	105	2		25	50 - 150
Bromochloromethane	5.000	5.249	105	3		25	50 - 150
Chloroform	5.000	5.578	108	3		25	67 - 147
1,1,1-Trichloroethane	5.000	5.475	110	3		25	71 - 137
1,1-Dichloropropene	5.000	5.680	114	3		25	50 - 150
Carbon tetrachloride	5.000	5.571	111	4		25	68 - 145
1,2-Dichloroethane	5.000	5.405	108	1		25	61 - 150
Isobutyl alcohol	250.0	256.5	103	5		25	50 - 150
Benzene	5.000	5.348	107	3		11	68 - 138
Trichloroethene	5.000	7.123	100	2		14	55 - 150
1,2-Dichloropropane	5.000	5.657	109	3		25	67 - 137
Dibromomethane	5.000	5.141	103	1		25	50 - 150

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MSD

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MSD1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Methyl Methacrylate	50.00	56.16	112	3		25	50 - 150
Bromodichloromethane	5.000	5.196	104	0.5		25	73 - 142
cis-1,3-Dichloropropene	5.000	4.908	98	0.8		25	74 - 134
4-Methyl-2-pentanone	25.00	24.49	98	4		25	66 - 127
Toluene	5.000	5.055	101	3		13	60 - 142
trans-1,3-Dichloropropene	5.000	5.153	103	0.5		25	66 - 130
1,1,2-Trichloroethane	5.000	4.863	97	0.4		25	68 - 130
Ethyl Methacrylate	50.00	53.65	107	2		25	50 - 150
1,3-Dichloropropane	5.000	5.100	102	0.5		25	50 - 150
Tetrachloroethene	5.000	4.019	77	0.4		25	65 - 137
2-Hexanone	25.00	24.20	97	5		25	53 - 140
Dibromochloromethane	5.000	4.731	95	0.2		25	68 - 137
Chlorobenzene	5.000	5.087	102	0.04		13	68 - 129
1,1,1,2-Tetrachloroethane	5.000	4.955	99	0.7		25	50 - 150
Ethylbenzene	5.000	5.166	103	0.9		25	67 - 127
m,p-Xylene	10.00	10.56	106	2		25	60 - 140
o-Xylene	5.000	5.241	105	3		25	60 - 140
Styrene	5.000	5.064	101	0.8		25	66 - 139
Bromoform	5.000	4.542	91	4		25	62 - 139
1,1,2,2-Tetrachloroethane	5.000	4.726	95	0.6		25	63 - 122
1,2,3-Trichloropropane	5.000	4.997	100	4		25	50 - 150
trans-1,4-Dichloro-2-butene	20.00	20.21	101	3		25	50 - 150
1,3-Dichlorobenzene	5.000	4.876	98	6		25	64 - 136
1,4-Dichlorobenzene	5.000	4.905	98	6		25	69 - 125
1,2-Dichlorobenzene	5.000	4.856	97	5		25	71 - 127
1,2,4-Trichlorobenzene	5.000	4.637	93	14		25	52 - 147
Hexachlorobutadiene	5.000	5.047	101	12		25	50 - 150
Naphthalene	5.000	4.275	85	17		25	50 - 150
Xylenes (total)	15.00	15.80	105	3		25	60 - 140

E. Surrogate Recovery Results

(SURROGATE STANDARD RECOVERY AND RT SUMMARY)

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (1031819-BLK1) ug/L Lab File ID: 1031819-BLK191.c Analyzed: 03/18/11 18:53				
Dibromofluoromethane	5.000	103	65 - 150	
1,2-Dichloroethane-d4	5.000	102	59 - 150	
Toluene-d8	5.000	101	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
LCS (1031819-BS1) ug/L Lab File ID: 1031819-BS191.d Analyzed: 03/18/11 19:32				
Dibromofluoromethane	5.000	107	65 - 150	
1,2-Dichloroethane-d4	5.000	110	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	101	63 - 143	
MW-3 (1103087-01) ug/L Lab File ID: 1103087-0191.d Analyzed: 03/18/11 20:26				
Dibromofluoromethane	5.000	97	65 - 150	
1,2-Dichloroethane-d4	5.000	88	59 - 150	
Toluene-d8	5.000	111	61 - 145	
Bromofluorobenzene	5.000	103	63 - 143	
MW-2 (1103087-02) ug/L Lab File ID: 1103087-0291.d Analyzed: 03/18/11 20:55				
Dibromofluoromethane	5.000	104	65 - 150	
1,2-Dichloroethane-d4	5.000	101	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
MW-8 (1103087-03) ug/L Lab File ID: 1103087-0391.d Analyzed: 03/18/11 21:24				
Dibromofluoromethane	5.000	111	65 - 150	
1,2-Dichloroethane-d4	5.000	108	59 - 150	
Toluene-d8	5.000	108	61 - 145	
Bromofluorobenzene	5.000	102	63 - 143	

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-9 (1103087-04) ug/L Lab File ID: 1103087-0491.d Analyzed: 03/18/11 21:52				
Dibromofluoromethane	5.000	106	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	97	63 - 143	
MW-12 (1103087-05) ug/L Lab File ID: 1103087-0591.d Analyzed: 03/18/11 22:21				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	
MW-17 (1103087-06) ug/L Lab File ID: 1103087-0691.d Analyzed: 03/18/11 22:50				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	107	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
TRIPBLANK (1103087-07) ug/L Lab File ID: 1103087-0791.d Analyzed: 03/18/11 23:19				
Dibromofluoromethane	5.000	109	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	97	63 - 143	
MW-2 (1103087-02RE1) ug/L Lab File ID: 1103087-02D91.d Analyzed: 03/18/11 23:48				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	105	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Matrix Spike (1031819-MS1) ug/L Lab File ID: 1031819-MS191.d Analyzed: 03/19/11 00:17				
Dibromofluoromethane	5.000	108	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	95	63 - 143	
Matrix Spike Dup (1031819-MSD1) ug/L Lab File ID: 1031819-MSD191.d Analyzed: 03/19/11 00:46				
Dibromofluoromethane	5.000	105	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	98	61 - 145	
Bromofluorobenzene	5.000	93	63 - 143	

F. Internal Standard Results

(INTERNAL STANDARD AREA AND RT SUMMARY)

INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Sequence:	1C18005	Instrument:	5975hpms91
		Calibration:	1032305

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C18005-CCV1)			Lab File ID: 1C18005-CCV191.d			Analyzed: 03/18/11 16:37			
Fluorobenzene	704689	10.111	751129	10.105	94	50 - 200	0.0060	+/-0.06	
Chlorobenzene-d5	510439	12.403	527640	12.397	97	50 - 200	0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	262064	14.043	266024	14.037	99	50 - 200	0.0060	+/-0.06	
Blank (1031819-BLK1)			Lab File ID: 1031819-BLK191.d			Analyzed: 03/18/11 18:53			
Fluorobenzene	656014	10.111	704689	10.111	93	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	455403	12.403	510439	12.403	89	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	217220	14.037	262064	14.043	83	50 - 200	-0.0060	+/-0.06	
LCS (1031819-BS1)			Lab File ID: 1031819-BS191.d			Analyzed: 03/18/11 19:32			
Fluorobenzene	661674	10.111	704689	10.111	94	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	491900	12.397	510439	12.403	96	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	251139	14.043	262064	14.043	96	50 - 200	0.0000	+/-0.06	
MW-3 (1103087-01)			Lab File ID: 1103087-0191.d			Analyzed: 03/18/11 20:26			
Fluorobenzene	596279	10.111	704689	10.111	85	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	391335	12.403	510439	12.403	77	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	172225	14.037	262064	14.043	66	50 - 200	-0.0060	+/-0.06	
MW-2 (1103087-02)			Lab File ID: 1103087-0291.d			Analyzed: 03/18/11 20:55			
Fluorobenzene	607435	10.111	704689	10.111	86	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	425774	12.403	510439	12.403	83	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	201666	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
MW-8 (1103087-03)			Lab File ID: 1103087-0391.d			Analyzed: 03/18/11 21:24			
Fluorobenzene	599970	10.111	704689	10.111	85	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	428620	12.403	510439	12.403	84	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	202123	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
MW-9 (1103087-04)			Lab File ID: 1103087-0491.d			Analyzed: 03/18/11 21:52			
Fluorobenzene	606152	10.111	704689	10.111	86	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	432358	12.403	510439	12.403	85	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	206576	14.037	262064	14.043	79	50 - 200	-0.0060	+/-0.06	
MW-12 (1103087-05)			Lab File ID: 1103087-0591.d			Analyzed: 03/18/11 22:21			
Fluorobenzene	594324	10.111	704689	10.111	84	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	433033	12.397	510439	12.403	85	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	205510	14.037	262064	14.043	78	50 - 200	-0.0060	+/-0.06	

INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Sequence:	1C18005	Instrument:	5975hpms91
		Calibration:	1032305

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-17 (1103087-06)			Lab File ID: 1103087-0691.d			Analyzed: 03/18/11 22:50			
Fluorobenzene	582442	10.111	704689	10.111	83	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	419700	12.403	510439	12.403	82	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	201048	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
TRIPBLANK (1103087-07)			Lab File ID: 1103087-0791.d			Analyzed: 03/18/11 23:19			
Fluorobenzene	576009	10.111	704689	10.111	82	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	417839	12.403	510439	12.403	82	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	198345	14.037	262064	14.043	76	50 - 200	-0.0060	+/-0.06	
MW-2 (1103087-02RE1)			Lab File ID: 1103087-02D91.d			Analyzed: 03/18/11 23:48			
Fluorobenzene	571553	10.111	704689	10.111	81	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	407661	12.403	510439	12.403	80	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	193018	14.043	262064	14.043	74	50 - 200	0.0000	+/-0.06	
Matrix Spike (1031819-MS1)			Lab File ID: 1031819-MS191.d			Analyzed: 03/19/11 00:17			
Fluorobenzene	614830	10.111	704689	10.111	87	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	462028	12.397	510439	12.403	91	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	235728	14.037	262064	14.043	90	50 - 200	-0.0060	+/-0.06	
Matrix Spike Dup (1031819-MSD1)			Lab File ID: 1031819-MSD191.d			Analyzed: 03/19/11 00:46			
Fluorobenzene	631424	10.111	704689	10.111	90	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	473156	12.397	510439	12.403	93	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	245170	14.037	262064	14.043	94	50 - 200	-0.0060	+/-0.06	

G. Blank Data

(PREPARATION BATCH SUMMARY)

Organic Analysis Data Sheets (OADS), Tentatively Identified Compounds (TICs) and Surrogate Recovery Results

PREPARATION BATCH SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Batch: 1031819 Matrix: Water Preparation: SW 5030A/5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
VBLKKT	1031819-BLK1	03/18/11 18:53	25.0	25.0
VKTLCS	1031819-BS1	03/18/11 18:53	25.0	25.0
MW-3MS	1031819-MS1	03/18/11 18:53	25.0	25.0
MW-3MSD	1031819-MSD1	03/18/11 18:53	25.0	25.0
MW-3	1103087-01	03/18/11 18:53	25.0	25.0
MW-2	1103087-02	03/18/11 18:53	25.0	25.0
MW-2DL	1103087-02RE1	03/18/11 18:53	25.0	25.0
MW-8	1103087-03	03/18/11 18:53	25.0	25.0
MW-9	1103087-04	03/18/11 18:53	25.0	25.0
MW-12	1103087-05	03/18/11 18:53	25.0	25.0
MW-17	1103087-06	03/18/11 18:53	25.0	25.0
TRIPBLANK	1103087-07	03/18/11 18:53	25.0	25.0

ANALYSIS DATA SHEET

SW 8260B

VBLKKT

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BLK191.d | QC Type: Blank

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BLK1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 18:53

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride		0.020	0.50	U
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

ANALYSIS DATA SHEET

SW 8260B

VBLKKT

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BLK191.d | QC Type: Blank

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BLK1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 18:53

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.151	103	65 - 150	
1,2-Dichloroethane-d4	5.000	5.122	102	59 - 150	
Toluene-d8	5.000	5.046	101	61 - 145	
Bromofluorobenzene	5.000	4.896	98	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories

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H. Sample Preparation and Analysis Holding Time Data

(HOLDING TIME SUMMARY)

Sample collection, receipt, preparation and analysis dates with quality control acceptance criteria.

HOLDING TIME SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MW-3	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-2	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-2DL	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-8	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-9	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-12	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-17	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
TRIPBLANK	03/15/11	03/18/11	03/18/11	N/A	14	03/18/11	4	14	

ANALYSES DATA PACKAGE COVER PAGE

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

Laboratory: COMPUCHEM

SDG: 1103087

Client Sample Id:	Lab Sample Id:
MW-3	1103087-01
MW-2	1103087-02
MW-2	1103087-02RE1
MW-8	1103087-03
MW-9	1103087-04
MW-12	1103087-05
MW-17	1103087-06
TRIPBLANK	1103087-07

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 and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: S. A. Parikh

Name: SAROJ A. PARIKH

Date: 03/24/11

Title: Data Reviewer II

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CompuChem, a Division of Liberty Analytical Corporation

I. SAMPLE DATA PACKAGE

GC/MS by SW-846

The sample data package shall include data for all analyses of all samples in one Workorder/Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and laboratory control samples. The sample data package consists of the following:

A. SDG Narrative

B. Chain-of-Custody Documentation

C. SDG Data

METHOD: 8260B

SDG: 1103087

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1103087
Project: WATAUGA COUNTY LANDFILL 6520-39
PROTOCOL: SW-846 – 8260B
Date: March 24, 2011

EPA Sample Number	Volatile Fraction	DL/RE	pH value of the Aqueous sample
MW-2	Yes	Yes	1
MW-3	Yes	No	1
MW-3MS	Yes	No	1
MW-3MSD	Yes	No	1
MW-8	Yes	No	1
MW-9	Yes	No	1
MW-12	Yes	No	1
MW-17	Yes	No	1
TRIPBLANK	Yes	No	1

The nine (9) aqueous samples listed above were received intact, with proper documentation, in a sealed shipping container, on March 18, 2011. The cooler temperature associated with these samples was 2.7 °C.

The samples were scheduled for the requested analysis of the volatile fraction. SW-846, 3rd Edition, Update 3, Method 8260B was used to prepare and analyze these samples, with the exceptions and/or additions requested by the client. All pertinent Quality Assurance notices are included in the narrative section, and all pertinent Laboratory notices for this SDG are included in the sample data sections. This portion of the narrative deals with the volatile fraction only.

Volatile:

Analysis holding time requirements were met for all samples in this SDG.

The pH value was equal to 1 for all samples in this SDG.

Three (3) or more volatile target compound list (TCL) analytes were identified above the Contract Required Quantitation Limits (CRQLs) in samples MW-2, MW-2DL, MW-3, MW-9, MW-12, and MW-17.

One (1) or more Tentatively Identified Compounds (TICs) were found in samples MW-9, MW-12, and MW-17.

In the initial analysis of sample MW-2, the on-column amount of 1,1,1-Trichloroethane target analyte exceeded the instrument's analytical range as defined by the highest concentration level of the Initial Calibration. This sample was re-analyzed at a 6.25x dilution in order to bring the on-column amount into the range. We have reported both analysis of this sample.

.All Bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

Overall QC criteria were met for all initial and continuing calibration standards associated to this SDG.

All of the system monitoring compounds met recovery criteria in the analyses of the samples.

All of the internal standards met response and retention time criteria in the analyses of the samples.

Manual integrations were not performed on any of the process files associated with this SDG.

The associated method blank met all quality control criteria.

Sample MW-3 was used as the original to prepare the duplicate matrix spikes as requested. The associated duplicate matrix spikes met all accuracy and precision criteria.

The associated Laboratory Control Sample met all accuracy criteria.

I certify that this data package complies with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Furthermore, I certify that the tests used in this report meet all requirements of the NELAC standards unless otherwise stated in the SDG narrative or QA notice. Release of the data contained in this hardcopy data package and/or in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

S.A. Parikh

Saroj A. Parikh
Data Reviewer II
March 24, 2011

GC and GC/MS Column and Trap Specifications Table

SDG #:	1103087

COLUMNS*

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-5MS	0.53	1.0	30
	Restek	clpest	0.32	0.5	30
	Restek	clpest2	0.32	0.25	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Pinnacle II Biphenyl	4.6	5.0	15 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS*

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 30

* This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.

Note: This table also contains HPLC columns.

CompuChem

a division of Liberty Analytical Corporation

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the lower of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the lower of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the higher of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The "S" flag is not utilized for non CLP analyses.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

B. Chain-of-Custody

The laboratory shall include a copy of the Chain-of-Custody (CoC) documentation for all of the samples in the SDG. The CoC documents shall be arranged in increasing Client Sample ID number order, considering both letters and numbers.

CHAIN OF CUSTODY RECORD

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

LW 3/7/11

Client:	Watauga County, NC	**Consultant:**	Draper Aden Associates	**Sample Site:**	Watauga County Landfill
Attn:	Mr. J.V. Potter	**Attn:**	Janet C. Frazier	**Location:**	Watauga County, NC
Address:	842 West King Street?/Courthouse, Suite 1 Boone, NC 28607	**Address:**	2206 South Main Street Blacksburg, Virginia 24060	**Event:**	March 2011 Semiannual Assess. Monitoring Event
Phone:	(828) 264-5305	**Phone:**	(540) 552-0444	**DAA JN:**	6520-39
Fax:	0	**Fax:**	(540) 552-0291	**Lab JN:**	
Fax:	0				

Project Specific (PS) or Batch (B) QC:
Sample Collection for Project Complete? YES
Carrier:
Tracking Number:

Box 1: Matrix
SW Surface Water — T Trip Blank
GW Groundwater — E Equipment Blank
L Leachate — P Product
S Soil — O Other

Box 2: Preservative
A HCL — E NaOH
B HNO_3 — F ZnAc
C H_2SO_4 — G Other (Specify)
D $Na_2S_2O_3$ — H None

Box 3: Filtered/Unfiltered
F Filtered
U Unfiltered

Box 4: Sample Type
G Grab
C Composite

Box 5: Sample Container Type
P Plastic — V VOA
AG Amber Glass — CG Clear Glass

Invoice
Copy to Consultant: YES
Bill: CLIENT OTHER
Preserved and shipped on ice: YES

GENERAL NOTES:
1. Level 4 deliverables with EDD and PDF.
2. Report all calibrated target analytes, same as previous events.
3. Note that project required quantitation and deteciton limits are same as previous events.

Sample ID	Date: 2011	Time	Box 1: Matrix	Number of Bottles	8260B 25ml purge	CLP METALS ILMO 5.4	Metals pH						
Box 4 - Sample Type					G	G							
Box 3 - Filtered/Unfiltered					U	U							
Required pH of Sample					<2	<2							
Box 2 - Preservative					A	B							
Box 5 - Sample Container Type					3-40ml V	1-500ml P							
MW-2	3/16	15:00	GW	4	X	X	<2			1103087-02			Analyze and report all diluted and undiluted results.
MW-3	3/17	11:45	GW	4	X	X	<2			1103087-01			
MW-3ms	3/17	11:45	GW	4	X	X	<2			-01			
MW-3msd	3/17	11:45	GW	4	X	X	<2			-01			
MW-8	3/17	12:15	GW	4	X	X	<2			1103087-03			
MW-9	3/16	12:30	GW	4	X	X	<2			-04			
MW-12	3/17	13:00	GW	4	X	X	<2			-05			
MW-17	3/17	12:40	GW	4	X	X	<2			-06			
Trip Blank	3/15		T	3	X					1103087-07			~~VHBLKXV~~ 3/18/11

Clients Special Instructions: Level 4 w/ EDD & PDF

Received by lab in Good Condition ✓ Yes ____ No Custody Seal Intact ✓ Yes ____ No Temperature upon arrival 2.7°C Received on Ice ✓ Yes ____ No
Describe problems, if any: IR GUN 3W0015

Sampler Name (Print): Chris Branscome	Date: 3/15/11	#1 Relinquished by (Signature): Chris Branscome	Date: 3/17/11	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested: 30 DYS ORG/6 MTHS INORG
Sampler Signature: Chris Branscome	Time: 1700 CST 1700	Company Name: Draper Aden Assoc.	Time: 17:00	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/15/11	#1 Received by (Signature): Joan Puedie	Date: 3/18/11	#2 Received by (Signature):	Date:	
Sampler Signature: Dale Slaughter	Time: 1700	Company Name: CompuChem	Time: 930	Company Name:	Time:	

TYC 3/7/11
LW 3/7/11

WORK ORDER

Printed: 3/24/2011 8:08:57PM

1103087

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1103087** **CASE:**	**Status:**	**Received**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due:	04/07/2011 00:00 (20 day TAT)		
Received By:	Cathy Dover	Date Received:	03/18/2011 09:30
Logged In By:	Cathy Dover	Date Logged In:	03/18/2011 15:18

J & B Flags?: **YES** Metals ND to? **MDL**	TICS?:**EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**

USE 1103087-01 (MW-3) FOR QC*VOC 8260B 25 ML LIST=PPS897O.SUB*ILM05.4 MTL=Ba,Fe,Cr,Co,Ni & V

Analysis	Due	TAT	Expires	Received	Comments
1103087-01 MW-3 [Water] Sampled 03/17/2011 11:45 Eastern					**USE FOR QC**
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 11:45	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 11:45	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 11:45	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-02 MW-2 [Water] Sampled 03/16/2011 15:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/12/2011 15:00	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/12/2011 15:00	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/30/2011 15:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-03 MW-8 [Water] Sampled 03/17/2011 12:15 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 12:15	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 12:15	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 12:15	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-04 MW-9 [Water] Sampled 03/16/2011 12:30 Eastern					
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/12/2011 12:30	03/18/2011 09:30	
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/12/2011 12:30	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/30/2011 12:30	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)

WORK ORDER

Printed: 3/24/2011 8:08:57PM

1103087

COMPUCHEM

Client:	DRAPER	Project Manager:	Cathy Dover
Project:	WATAUGA COUNTY LANDFILL 6520-39	Project Number:	WATAUGA COUNTY LANDFILL 6520-39
SDG:	1103087 CASE:	Status:	Received

Analysis	Due	TAT	Expires		Comments
1103087-05 MW-12 [Water] Sampled 03/17/2011 13:00 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 13:00	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 13:00	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 13:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-06 MW-17 [Water] Sampled 03/17/2011 12:40 Eastern					
ILM05.4 - ICP AES (5-10) Invoice	04/07/2011 16:00	20	09/13/2011 12:40	03/18/2011 09:30	
ILM05.4 - ICP/AES (TM)	04/07/2011 16:00	20	09/13/2011 12:40	03/18/2011 09:30	
VOA-8260B 25ML	04/07/2011 16:00	20	03/31/2011 12:40	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)
1103087-07 TRIPBLANK [Water] Sampled 03/15/2011 00:00 Eastern					
VOA-8260B 25ML	04/07/2011 16:00	20	03/29/2011 00:00	03/18/2011 09:30	SubList = VOA- PPS897O (03-18-11)

ANALYTICAL METHOD: 8260B/5030B – 25mL Purge
TYPE METHOD: GCMS
CLASS: VOLATILE

Run For All Monitoring Wells & Trip Blank:

No.	ANALYTE	CAS RN
1.	Acetone	67-64-1
2.	Acetonitrile (methyl cyanide)	75-05-8
3.	Acrolein	107-02-8
4.	Acrylonitrile	107-13-1
5.	Allyl chloride	107-05-1
6.	Benzene	71-43-2
7.	Bromochloromethane	74-97-5
8.	Bromodichloromethane	75-27-4
9.	Bromoform (tribromomethane)	75-25-2
10.	Bromomethane; (Methyl bromide)	74-83-9
11.	2-butanone (methyl ethyl ketone - MEK)	78-93-3
12.	Carbon disulfide	75-15-0
13.	Carbon tetrachloride	56-23-5
14.	Chlorobenzene	108-90-7
15.	Chloroethane (ethyl chloride)	75-00-3
16.	Chloroform (trichloromethane)	67-66-3
17.	chloromethane ; (Methyl chloride)	74-87-3
18.	Chloroprene	126-99-8
19.	Dibromochloromethane	124-48-1
20.	dibromomethane, (Methylene bromide)	74-95-3
21.	1,2-dichlorobenzene; (o-dichlorobenzene)	95-50-1
22.	1,3-dichlorobenzene, (m-dichlorobenzene)	541-73-1
23.	1,4-dichlorobenzene; (p-dichlorobenzene)	106-46-7
24.	trans-1,4-dichloro-2-butene	110-57-6
25.	Dichlorodifluoromethane	75-71-8
26.	1,1-dichloroethane	75-34-3
27.	1,2-dichloroethane	107-06-2
28.	1,1-dichloroethene (vinylidene chloride)	75-35-4
29.	cis-1,2-dichloroethene	156-59-2
30.	trans-1,2-dichloroethene	156-60-5
31.	1,2-dichloropropane	78-87-5
32.	1,3-dichloropropane	142-28-9
33.	2,2-dichloropropane	594-20-7
34.	1,1-dichloropropene	563-58-6
35.	cis-1,3-dichloropropene	10061-01-5
36.	trans-1,3-dichloropropene	10061-02-6
37.	Ethylbenzene	100-41-4
38.	Ethyl methacrylate	97-63-2
39.	Hexachlorobutadiene	87-68-3
40.	2-hexanone (methyl butyl ketone - MBK)	591-78-6
41.	iodomethane; (Methyl iodide)	74-88-4
42.	Isobutyl alcohol	78-83-1
43.	Methacrylonitrile	126-98-7
44.	Methyl methacrylate	80-62-6
45.	4-methyl-2-pentanone (methyl isobutyl ketone)	108-10-1
46.	Naphthalene	91-20-3
47.	Propionitrile	107-12-0
48.	Styrene (phenylethene)	100-42-5

KFC – 2/19/2009
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49. 1,1,1,2-tetrachloroethane	630-20-6
50. 1,1,2,2-tetrachloroethane	79-34-5
51. Tetrachloroethene	127-18-4
52. Toluene (methyl benzene)	108-88-3
53. 1,2,4-trichlorobenzene	120-82-1
54. 1,1,1-trichloroethane (methyl chloroform)	71-55-6
55. 1,1,2-trichloroethane	79-00-5
56. Trichloroethene	79-01-6
57. Trichlorofluoromethane (CFC-11)	75-69-4
58. 1,2,3-trichloropropane	96-18-4
59. Vinyl acetate	108-05-4
60. Xylenes (total)	1330-20-7

ADDITIONAL ANALYTES FOR 8260B

61	methylene chloride	75-09-2
62	Vinyl chloride	75-01-4

Organic Undecanted Dry Weight Worksheet

1031819

Employee _____ ID No _____

Temp in: _____

Temp out: _____

Date Assigned: _____

Date/Time in: _____

Date/Time out: _____

Lab Number	Client ID	Sample Type	Weight of Container (0.00g)	Weight of Container & Wet Sample (0.00g)	Weight of Container & Dry Sample (0.00g)
1031819-BLK1	VBLKKT	Blank			
1031819-BS1	VKTLCS	LCS			
1031819-MS1	MW-3MS	Matrix Spike			
1031819-MSD1	MW-3MSD	Matrix Spike Dup			
1103087-01	MW-3	Sample			
1103087-02	MW-2	Sample			
1103087-02RE1	MW-2	Sample			
1103087-03	MW-8	Sample			
1103087-04	MW-9	Sample			
1103087-05	MW-12	Sample			
1103087-06	MW-17	Sample			
1103087-07	TRIPBLANK	Sample			

Entered into Element by: _____ _____

Date

Client: DRAPER

Work Order 1103087

Sdg: DRAFT 1103087

Sample Summary

Project: WATAUGA COUNTY LANDFILL 6520-39

Case:

Lab Number	Client Id	Sampled	Recieved	Extracted	Initial	Extract	Final	Spike	%Moist	PH	Batch	Analysis
1103087-01	DRAFT: MW-3	3/17/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-02	DRAFT: MW-2	3/16/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-02RE1	DRAFT: MW-2	3/16/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-03	DRAFT: MW-8	3/17/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-04	DRAFT: MW-9	3/16/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-05	DRAFT: MW-12	3/17/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-06	DRAFT: MW-17	3/17/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1103087-07	DRAFT: TRIPBLANK	3/15/11	3/18/11	3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1031819-BLK1	DRAFT: VBLKKT	Blank		3/18/11	25		25				1031819	VOA-8260B 25ML
1031819-BS1	DRAFT: VKTLCS	LCS		3/18/11	25		25	5			1031819	VOA-8260B 25ML
1031819-MS1	DRAFT: MW-3MS	Matrix Spike		3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML
1031819-MSD1	DRAFT: MW-3MSD	Matrix Spike Dup		3/18/11	25		25	5		1.0	1031819	VOA-8260B 25ML

VOA Internal Chain of Custody Sheet

Matrix Water **Batch**: 1031817 **Status**: Batched **Analysis**: VOA-8260B 25ML

Lab Id	Client Id	Received	Container	Extraction
1103087-01 A	MW-3	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-02 A	MW-2	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-03 A	MW-8	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-04 A	MW-9	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-05 A	MW-12	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-06 A	MW-17	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103087-07 A	TRIPBLANK	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B

Relinquished By	Date/Time	Received By	Date/Time
#2 B	3-18-11	B	3-18-11
B	3-18-11	#2 B	3-18-11

CompuChem a division of Liberty Analytical Corp. Logbook 11 UUU 3

GC/MS VOA Laboratory

DC Group Standards Lots Identification Log

Method SW-846

Group Identification No.: DC 583

Standard Identification	Lot Number	Expiration Date
8260B Internal Standard	—	—
8260B Surrogate	67860	5-30-11
TCL-4 1&2	67846	5-18-11
TCL-4 Vinyl Acetate	—	—
TCL-4 AppIX	211021040	6-7-11
TCL-4 CEVE	—	—
TCL-4 Ketones	211021204	6-16-11
TCL-4 Gases	67872	4-10-11
1303B (Acrolein & Acrylonitrite) (AcAc)	—	—
8260B Spiking Mixture (1001C)	—	—

Group Assigned by: Joann Ockelands Date: 3-11-11

Group Identification No.: DC_____

Standard Identification	Lot Number	Expiration Date
8260B Internal Standard		
8260B Surrogate		
TCL-4 1&2		
TCL-4 Vinyl Acetate		
TCL-4 AppIX		
TCL-4 CEVE		
TCL-4 Ketones		
TCL-4 Gases		
1303B (Acrolein & Acrylonitrite) (AcAc)		
8260B Spiking Mixture (1001C)		

Group Assigned by: _____ Date: _____

Reviewed By: [illegible] Date: 3-15-11

8/22/06:jad

GC/MS Volatile Standards Preparation Logbook

3-16-11 JAO	67881 SOM Trace IS #90	[125 ug/mL]
	250uL ResteK Cat. # 30091 Lot # A075426	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-16-11	
3-17-11 JAO	67882 8260 Surrogate (Low)	[5 ug/mL]
	100uL 67860	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-17-11	
3-17-11 JAO	67883 8260 IS #91	[125 ug/mL]
	250uL ResteK Cat. # 30241 Lot # A075003	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-17-11	
3-17-11 JAO	67884 SOM Trace Surrogate	[25 ug/mL]
	12.5uL Absolute Std Cat. # 94155 Lot # 021510	
	12.5uL 94156 021510	
	100uL 94157 091009	
	Vf = 1.0mL	
	Exp 4-17-11	
3-19-11 B	67885 SOM SIW IS	[250ng/mL]
	500ul of 30091 Lot A075426	Exp 4-19-11
	Vf = 5mL Meth # H45E36	
3-21-11 B	67886 SOM Trace Surr	[25ng/mL
	12.5 ul of 94155 Lot 021510	Exp 4-21-11
	12.5 ul 94156 021510	
	100ul 94157 091009	Vf = 1mL Meth # H45E36

Reviewed by: S.A P Date: 03/24/11

12/24/09: jr

GC/MS Volatile Standards Preparation Logbook

3-14-11 JAO	67876 1001C	[25ug/mL]
	50uL Restek Cat #30005 Lot # A065789	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-14-11	
3-14-11 D	67877 SOM S/W SURR	[50ug/mL]
	25ul cat 94155 (3-14-11) Lot 021510	Exp 4-14-11
	25ul 94156 021510	
	40ul 94157 091009	
	32ul 94158 022310	
	Vf = 1mL MeoH # H45E36	
3-15-11 JAO 50	67878 SOM SIM (Benzene & Vinyl Chloride)	[~~50ug/mL~~ 100 25ug/mL] JAO 3-15-11
	~~25uL~~ JAO 3-15-11 Restek Cat. #30492 Lot # A075266	
	12.5uL Restek Cat. #30042 Lot # A070909	
	Vf = 1.0mL Methanol Lot # H45E36	
	Exp 4-15-11	
3-15-11 JAO	67879 Trace SIM Intermediate Surrogate (Benzene & Vinyl Chloride SIM)	[100ug/mL]
	50uL Absolute Std Cat. #94155 Lot # 021510	
	50uL Absolute Std Cat. #94156 Lot # 021510	
	Vf = 1.0mL Methanol Lot # H45E36	
	Exp 4-15-11	
3-15-11 JAO	67880 Trace SIM Sample Surrogate (Benzene & Vinyl Chloride SIM)	[10ug/mL]
	100uL 67879	
	Vf = 1.0mL Methanol Lot # H45E36	
	~~Vf = 1.0mL~~ Exp 4-15-11	
	~~Exp 4-15-11~~	
	JAO 3-15-11	

Reviewed by: [signature] Date: 3-15-11

12/24/09: jr

GC/MS Volatile Standards Preparation Logbook

3-9-11	67870 SOM Trace IS	[125 ug/mL]
JAO	250uL Restek Cat. #30091 Lot # A075426	
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask	
	Exp 4-9-11	
3-10-11	67871 2ed Source TCL4 1&2	[500 ug/mL]
JAO	1.25mL AccuStd M-502A-R-10X Lot # 209121160	
	1.25mL AccuStd S-13035 Lot # B8060071-1A	
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask	
	Exp 6-10-11	
3-10-11	67872 8260 Gases	[500 ug/mL]
JAO	1.25mL Restek Cat. # 30042 Lot # A077440	
	Vf = 5.0mL Methanol Lot #H45E36 in 5mL-V. Flask	
	Exp 4-10-11	
3-11-11	67873 8260 Surrogate	[5 ug/mL]
JAO	100uL 67860	
	Vf = 1.0mL Methanol Lot # H45E36	
	Exp 6-11-11	
3-11-11	67874 8260 IS #91	[125 ug/mL]
JAO	250uL Restek Cat. #30241 Lot # A075~~000~~ 003 JAO 3-11-11	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-11-11	
3-11-11	67875 Trace SIM IS	[12.5 ng/mL]
JAO	25ml of 30091 Lot A 075426	Exp 4-11-11
	Vf = 5mL MeoH # H45E36	

Reviewed by: [signature] Date: 3-15-11

12/24/09 jr

GC/MS Volatile Standards Preparation Logbook

3-3-11 JAO	67864 SOM Trace IS	[125 ug/mL]
	250uL Restek Cat.#30091 Lot #A075426	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-3-11	
3-7-11 JAO	67865 2ed Source Gases	[500 ug/mL]
	1.25mL AccuStd M-502B-10X Lot #210091188	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-7-11	
3-7-11 B	67866 SOM S/W IS	[250 ug/mL]
	500 ul of 30091 Lot A075426	Exp 4-7-11
	vf = 5mL MeOH # H45E36	
	67867 SOM TRACESURR.	[25 ug/mL
	12.5ul of Cat # 94155 Lot 021510	Exp 4-7-11
	12.5ul 94156 021510	
	100ul 94157 091009	
	vf = 1mL MeOH # H45E36	
3-8-11 JAO	67868 GRO Surrogate (Low)	5 mg/mL
	500uL AccuStd M-001R-2 Lot #B9030150	
	Vf = 2.0mL Methanol Lot # H45E36 in 2mL-V. Flask	
	Exp 9-8-11	
3-9-11 JAO	67869 8260 IS #59	[250 ug/mL]
	500uL Restek Cat #30241 Lot # A075003	
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask	
	Exp 4-9-11	

Reviewed by: [signature] Date: 3-8-11

12/24/09

GC/MS Volatile Standards Preparation Logbook

2-25-11 JAO	67858 SOM Trace IS #90	125 ug/mL
	250uL Restek Cat.# 30091 Lot # A075426	
	Vf=5.0mL Methanol Lot # H45E36	
	Exp 3-27-11	
2-28-11 JAO	67859 8260 IS	250 ug/mL
	500uL Restek Cat.# 30241 Lot # A072440	
	Vf=5.0mL Methanol Lot # H45E36 JAO 2-28-11	
	Exp 3-~~30~~ 27-11	
2-28-11 JAO	67860 8260 Surrogate	50 ug/mL
	200uL Restek Re Cat.#30240 Lot # A076124	
	Vf=10.0mL Methanol Lot # H45E36	
	Exp 5-30-11	
3-2-11 JAO	67861 8260 IS #71	125 ug/mL
	250uL Restek Cat.#30241 Lot # A075003	
	Vf=5.0mL MeOH Lot # H45E36	
	Exp 4-2-11	
3-2-11 JAO	67862 BFB	25 ug/mL
	25uL Restek Cat.# 30003 Lot # A058537	
	Vf=5.0mL Methanol Lot # H45E36	
	Exp 4-2-11	
3-3-11 JAO	67863 8260 IS #91	125 ug/mL
	250uL Restek Cat.# 30241 Lot # A075003	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 4-3-11	

Reviewed by: [illegible] Date: 3-15-11

12/24/09 jr

GC/MS Volatile Standards Preparation Logbook

2-21-11 JAO	67852 Trace SIM 1,2DB-3CP & 1,2-DBE	[25ug/mL]
	12.5uL ResteK Cat #30062 Lot # A064459	
	Vf=1.0mL Methanol Lot #H45E36	
	Exp 3-23-11	
	(with Dioxane Surrogate)	
2-21-11 JAO	67853 Trace SIM Intermediate Surrogate A	[100ug/mL]
	50uL Cat. #94155 Lot # 021510	
	128uL Cat# 94158 ↓ 022310	
	Vf=1.0mL Methanol Lot #H45E36 Exp 3-23-11	
2-21-11 JAO	67854 Trace SIM ~~Sample~~ JAO 2-21-11 Intermediate Surrogate	[~~2.5ug/mL~~ 100 JAO 2-21-11]
	50uL Cat. #94155 ~~25uL 67853~~ JAO 2-21-11 Lot # 021510	
	Vf=1.0mL Methanol Lot #H45E36 Exp 3-23-11	
2-21-11 JAO	67855 Trace SIM Sample Surrogate	[2.5ug/mL]
	25uL 67854	
	Vf=1.0mL Methanol Lot #H45E36 Exp 3-23-11	
2-21-11 JAO	67856 Trace SIM IS	[12.5ug/mL]
	25uL ResteK Cat #30091 Lot #A075426	
	Vf=5.0mL Methanol Lot #H45E36 in 5mL-V. Flask	
	Exp 3-23-11	
2-24-11 JAO	67857 8260 IS #91	[250ug/mL]
	500uL ResteK Cat. #30241 Lot #A072440	
	Vf=5.0mL Methanol H45E36 in 5mL-V. Flask	
	Exp 3-26-11	
	JAO 2-25-11	

Reviewed by: [signature] Date: 3-15-11

12/24/09 jr

GC/MS Volatile Standards Preparation Logbook

2-16-11 JAO	67847 8260 Gases [500ug/mL]
	1.25mL Restek Cat. # 30042 Lot # A077440
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-18-11
2-16-11 JAO	67848 8260 IS #59 [250ug/mL]
	500uL Restek Cat. # 30241 Lot # A072440
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-18-11
2-16-11 JAO	67849 2ed Source Ketones [VARIOUS]
	300uL Restek Cat. # 560345 Lot # A079070
	300uL Restek Cat. # 560347 Lot # A073140
	300uL NSI Cat# Q-6087-0 Lot # 122210-01
	into clean dry miniert
	Exp 3-31-11
2-17-11 JAO	Received 10 vials AccStd S-9863-R3 (Ketones) [VARIOUS]
	Custom VOA Std #2 Lot # 211021204 Exp 6-16-11
2-18-11 JAO	67850 SOM Trace Surrogate [25ug/mL]
	12.5uL Cat # 94155 Lot# 021510
	12.5uL 94156 021510
	100uL 94157 091009
	Vf = 1.0mL Methanol Lot # H45E36
	Exp 3-20-11
2-21-11 JAO	67851 SOM(S/W) IS #90 [250ug/mL]
	500uL Restek Cat # 30091 Lot # A075426
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-23-11

Reviewed by: [signature] Date: 3-15-11

12/24/09 jr

GC/MS Volatile Standards Preparation Logbook

2-10-11 JAO	67842 1001C	[25 ug/mL]
	50uL ResteK Cat.# 30005 Lot #A065789	
	Vf = 5.0mL Methanol Lot # H45E36	
	Exp 3-12-11	
2-10-11 JAO	Received 10 vials AccuStd S-9862-R2	[VARIOUS]
	Custom VOA Std #1 Lot #211021040 Exp. 6-7-2011	
2-11-11 JAO	67843 SOM(S/W) Surrogate	[50 ug/mL]
	25uL Cat # 94155 Lot # 021510	
	25uL 94156 021510	
	40uL 94157 091009	
	32uL 94158 022310	
	Vf = 1.0mL Methanol Lot # H45E36	
	Exp 3-13-11	
~~2-14-11~~ ~~2-11-14~~ JAO	67844 SOM IS #91	[125 ug/mL]
	250uL ResteK Cat.# 30091 Lot # A075426	
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask	
	Exp 3-16-11	
2-15-11 JAO	67845 8260 IS #9	[125 ug/mL]
	250uL ResteK Cat # 30241 Lot # A072440	
	Vf = 5.0mL	
	Exp 3-17-11	
2-16-11 JAO	67846 TCL4 1&2	[500 ug/mL]
	1.25mL ResteK Cat. # 30431 Lot # A073208	
	1.25mL ResteK Cat. # 557093 Lot # A075374	
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask Exp. 5-18-1	

Reviewed by: [signature] Date: 3-15-11

12/24/09 p

GC/MS Volatile Standards Preparation Logbook

2-3-11 JAO	67837 SOM (S/W) IS #90 [250 ug/mL]
	500uL ResteK Cat. #30091 Lot #A075426
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-5-11
2-3-11 JAO	67838 SOM (S/W) Surrogate [50 ug/mL]
	25uL Cat # 94155 Lot # 021510
	25uL 94156 021510
	40uL 94157 091009
	32uL 94158 ✓ 022310
	Vf = 1.0mL Methanol Lot # H45E36
	Exp 3-5-11
2-4-11 JAO	67839 SOM (S/W) IS #73 [250 ug/mL]
	500uL ResteK Cat. # 30091 Lot # A075426
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-6-11
2-7-11 JAO	67840 SOM Trace Surrogate [25 ug/mL]
	12.5uL Cat. # 94155 Lot # ~~94H~~ JAO 2-7-11 021510
	12.5uL Cat # 94156 021510
	100uL Cat # 94157 ✓ 091009
	Vf = 1.0mL MeOH Lot # H45E36
	Exp 3-9-11
2-10-11 JAO	67841 8260 IS #91 [125 ug/mL]
	250uL ResteK Cat # 30241 Lot # A072440
	Vf = 5.0mL Methanol Lot # H45E36 in 5mL-V. Flask
	Exp 3-12-11

Reviewed by [signature] Date: 3-15-11

12/24/09 jr

Received 8 vials 1 - 10

ESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

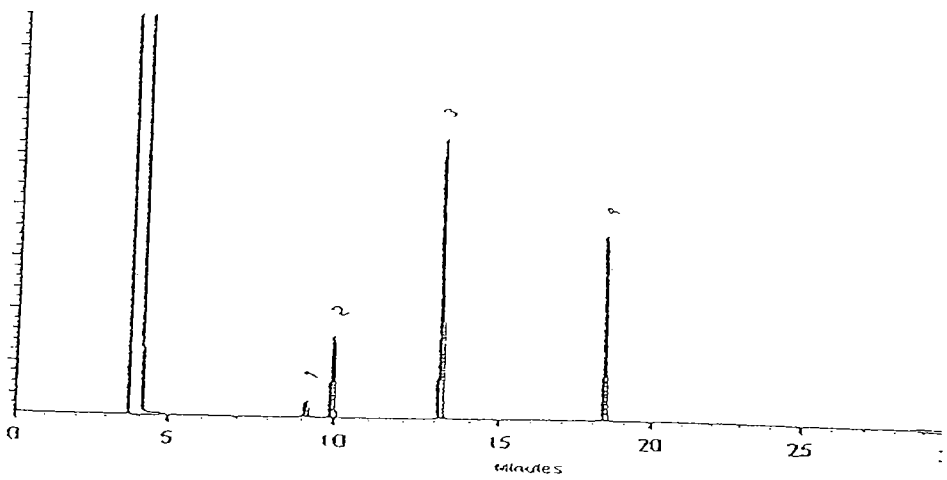
Catalog No. : 30240 Lot No.: A076124

Description : 8260A Surrogate Mix

Expiration Date[1] : August 2015 Storage: Freezer

Elution Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty 4 (95% C.L.; K=2)
1	Dibromofluoromethane	1868-53-7	99%	2,500.000 ug/ml	+/-0.58 %
2	1,2-Dichloroethane-d4	17060-07-0	99%	2,500.000 ug/ml	+/-0.58 %
3	Toluene-d8	2037-26-5	99%	2,500.000 ug/ml	+/-0.58 %
4	1-Bromo-4-fluorobenzene (BFB)	460-00-4	99%	2,500.000 ug/ml	+/-0.58 %
Solvent:	P&T Methanol	67-56-1	99%		

x 3.0um
210910]
::
ant pressure 11.0 psi.
ram:
ml to 240°C
d 5 min]



Shaffer
Shaffer - QA Analyst

Date Passed: 09-Aug-2010 Balance 1121472889

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

: of the unopened ampule stored at the recommended storage condition.
mined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest
. Chemical Identity is confirmed using GC/MS. See data pack or contact provider for further details.
th a listed purity of less than 99% have been weight corrected to compensate for impurities.
ypes of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides,
ates, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent
age of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary
desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration
compound in the solution.
ic compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.
metric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A
for dilutions.
combined using data for balances and glassware from measurement systems analysis methodology, raw material purity,
ard, equipment tolerances or calibration results.

Received 10 View

ESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No. : 30431 Lot No.: A073208

Description : 502.2 CAL2000 Mega-Mix

Expiration Date[1] : February 2012 Storage: Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	1,1-Dichloroethylene	75-35-4	99%	2,000.000 ug/ml	+/-0.63 %
2	Methylene chloride (dichloromethane)	75-09-2	99%	2,000.000 ug/ml	+/-0.63 %
3	trans-1,2-Dichloroethylene	156-60-5	99%	2,000.000 ug/ml	+/-0.63 %
4	1,1-Dichloroethane	75-34-3	99%	2,000.000 ug/ml	+/-0.63 %
5	2,2-Dichloropropane	594-20-7	99%	2,000.000 ug/ml	+/-0.63 %
6	cis-1,2-Dichloroethene	156-59-2	99%	2,000.000 ug/ml	+/-0.63 %
7	chloroform	67-66-3	98%	1,999.984 ug/ml	+/-0.63 %
8	Bromochloromethane	74-97-5	99%	2,000.000 ug/ml	+/-0.63 %
9	1,1,1-trichloroethane	71-55-6	99%	2,000.000 ug/ml	+/-0.63 %
10	1,1-Dichloropropene	563-58-6	99%	2,000.000 ug/ml	+/-0.63 %
11	carbon tetrachloride	56-23-5	99%	2,000.000 ug/ml	+/-0.63 %
12	1,2-Dichloroethane	107-06-2	99%	2,000.000 ug/ml	+/-0.63 %
13	Benzene	71-43-2	99%	2,000.000 ug/ml	+/-0.63 %
14	trichloroethylene	79-01-6	99%	2,000.000 ug/ml	+/-0.63 %
15	1,2-Dichloropropane	78-87-5	99%	2,000.000 ug/ml	+/-0.63 %
16	bromodichloromethane	75-27-4	99%	2,000.000 ug/ml	+/-0.63 %
17	Dibromomethane	74-95-3	97%	1,999.995 ug/ml	+/-0.63 %
18	cis-1,3-Dichloropropylene	10061-01-5	99%	2,000.000 ug/ml	+/-0.63 %
19	Toluene	108-88-3	99%	2,000.000 ug/ml	+/-0.63 %
20	trans-1,3-Dichloropropylene	10061-02-6	99%	2,000.000 ug/ml	+/-0.63 %
21	1,1,2-Trichloroethane	79-00-5	99%	2,000.000 ug/ml	+/-0.63 %
22	1,3-Dichloropropane	142-28-9	99%	2,000.000 ug/ml	+/-0.63 %
23	tetrachloroethylene	127-18-4	99%	2,000.000 ug/ml	+/-0.63 %
24	dibromochloromethane	124-48-1	99%	2,000.000 ug/ml	+/-0.63 %
25	1,2-Dibromoethane (EDB)	106-93-4	99%	2,000.000 ug/ml	+/-0.63 %
26	Chlorobenzene	108-90-7	99%	2,000.000 ug/ml	+/-0.63 %
27	Ethylbenzene	100-41-4	99%	2,000.000 ug/ml	+/-0.63 %
28	1,1,1,2-Tetrachloroethane	630-20-6	99%	2,000.000 ug/ml	+/-0.63 %
29	m-Xylene	108-38-3	99%	2,000.000 ug/ml	+/-0.63 %
30	p-Xylene	106-42-3	99%	2,000.000 ug/ml	+/-0.63 %
31	o-Xylene	95-47-6	99%	2,000.000 ug/ml	+/-0.63 %
32	Styrene	100-42-5	99%	2,000.000 ug/ml	+/-0.63 %
33	Isopropylbenzene (cumene)	98-82-8	99%	2,000.000 ug/ml	+/-0.63 %
34	bromoform	75-25-2	99%	2,000.000 ug/ml	+/-0.63 %
35	1,1,2,2-Tetrachloroethane	79-34-5	99%	2,000.000 ug/ml	+/-0.63 %
	1,2,3-Trichloropropane	96-18-4	99%	2,000.000 ug/ml	+/-0.63 %
	n-Propylbenzene	103-65-1	99%	2,000.000 ug/ml	+/-0.63 %
	Bromobenzene	108-86-1	99%	2,000.000 ug/ml	+/-0.63 %
	1,3,5-Trimethylbenzene	108-67-8	99%	2,000.000 ug/ml	+/-0.63 %
	2-Chlorotoluene	95-49-8	99%	2,000.000 ug/ml	+/-0.63 %

41	4-Chlorotoluene	106-43-4	99%	2,000.000 ug/ml	+/-0.63 %
42	1,2,4-Trimethylbenzene	95-63-6	98%	2,000.009 ug/ml	+/-0.63 %
43	sec-Butylbenzene	135-98-8	99%	2,000.000 ug/ml	+/-0.63 %
44	4-Isopropyltoluene (p-Cymene)	99-87-6	99%	2,000.000 ug/ml	+/-0.63 %
45	1,3-Dichlorobenzene	541-73-1	99%	2,000.000 ug/ml	+/-0.63 %
46	1,4-Dichlorobenzene	106-46-7	99%	2,000.000 ug/ml	+/-0.63 %
47	n-Butylbenzene	104-51-8	99%	2,000.000 ug/ml	+/-0.63 %
48	tert-Butylbenzene	98-06-6	99%	2,000.000 ug/ml	+/-0.63 %
49	1,2-Dichlorobenzene	95-50-1	99%	2,000.000 ug/ml	+/-0.63 %
50	1,2-Dibromo-3-chloropropane	96-12-8	99%	2,000.000 ug/ml	+/-0.63 %
51	1,2,4-Trichlorobenzene	120-82-1	97%	1,999.995 ug/ml	+/-0.63 %
52	Hexachlorobutadiene	87-68-3	97%	1,999.995 ug/ml	+/-0.63 %
53	Naphthalene	91-20-3	99%	2,000.000 ug/ml	+/-0.63 %
54	1,2,3-Trichlorobenzene	87-61-6	99%	2,000.000 ug/ml	+/-0.63 %
olvent:	P&T Methanol	67-56-1	99%		

n < 1.4um
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ant pressure 30 psi

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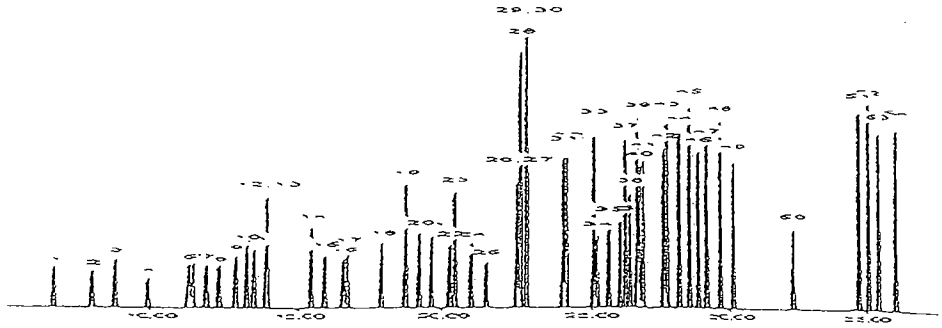
min.] to 240°C
hold 10 min.]



Sara Eyster
a Eyster QA Analyst

Date Passed: 01-Mar-2010 Balance: 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

n date of the unopened ampoule stored at recommended temperature.
is determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to
est whole number. In addition to detection listed above, chemical identity and purity are confirmed
: or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive
d Karl Fisher. See data pack or contact Restek for further details.
ds with a listed purity of less than 99% have been weight corrected to compensate for impurities.
ds with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a
factor that was used to calculate the amount of compound necessary to achieve the desired concentration
ent compound
pomeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number
nation.
n gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels)
ss A glassware used for dilutions.
es determined using repeatability and reproducibility data for balances and glassware from
ent systems analysis methodology, balance and glassware tolerances, raw material purity, and
icable, concentricity and linearity values from an accredited calibration laboratory.

Received 10 Vials 7-2-10
TCL4 1&2 Additions

ESTEK

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 557093 Lot No.: A075374

Description: Custom 502.2 Additions Mix

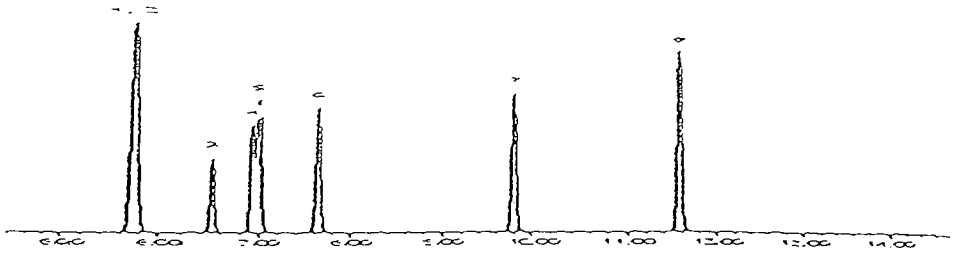
Expiration Date[1]: June 2011 Storage: Freezer

on Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty 4 (95% C.L.; K=2)
1	1,1,2-Trichlorotrifluoroethane (CFC-113)	76-13-1	97%	1,999.170 ug/ml	+/-0.59 %
2	1,1,1-Trichlorotrifluoroethane (CFC-113a)	354-58-5	98%	2,000.180 ug/ml	+/-0.59 %
3	Methyl acetate	79-20-9	99%	2,000.000 ug/ml	+/-0.59 %
4	Carbon disulfide	75-15-0	99%	2,000.000 ug/ml	+/-0.59 %
5	Methyl-tert-butyl ether (MTBE)	1634-04-4	99%	2,000.000 ug/ml	+/-0.59 %
6	Diisopropyl ether (DIPE)	108-20-3	99%	2,000.000 ug/ml	+/-0.59 %
7	Cyclohexane	110-82-7	99%	2,000.000 ug/ml	+/-0.59 %
8	Methylcyclohexane	108-87-2	97%	2,000.140 ug/ml	+/-0.59 %
lvent:	P&T Methanol	67-56-1	99%		

< 2.4um
#(109161)

s:
x pressure 30 psi

gram:
Inj to 240°C
ld 5 min)



any Shaffer
Shaffer - QAAdmin

Date Passed: 28-Jun-2010 Balance: 1121472869

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 80397

rte of the unopened ampule stored at the recommended storage condition.
ermined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest
ber. Overload identity is confirmed using GC/MS. See data pack or contact provider for further details.
with a listed purity of less than 99% have been weight corrected to compensate for impurities.
: types of compounds will have a listed purity of less than 99%: Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides,
SR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent
ntage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary
e desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration
compound in the solution.
rate compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.
ondmetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A
d for dilutions.
determined using data for balances and glassware from measurement systems analysis methodology, raw material purity,
dificant, equipment tolerances or calibration results.

Received/Invoiced 12-3-10

et Street
en, CT 06513

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

LOG NO: S-9863-R3
RIPTION: Custom VOA Std #2
LOT: 210111338
SOLVENT: Methanol

EXPIRATION: Mar 30 , 2011
DATE CERTIFIED: Nov 30, 2010
See reverse for additional certification information.
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Freeze (<-10° C)
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
	67-64-1	100	1258	1258
yl ketone	78-93-3	99.9	1258	1257
2-octanone	108-10-1	99.4	1258	1250
ic	591-78-6	98	1258	1233
ate	108-05-4	99.9	505.5	505.0
thylvinyl ether	110-75-8	99.4	504.8	501.8

AccuStandard

1. All weights are traceable through NIST, Test No. 822/272/03-05
2. Certified Analyte Concentration – Purity x Prepared Concentration. The Uncertainty calculated for this product is 2.2% which is the Combined Uncertainty (u(y)). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U = u(y) x k where k is the coverage factor at the 95% confidence level (k=2).
3. A product with a suffix (-1A, -2A, etc. or -01, -02, etc.) can be traced back to original data associated with the same lot without the suffix.

Certified by: R. Cooper

AccuStandard is accredited to ISO Guide 34/ISO/IEC 17025 and certified to ISO 9001

Received 10 Vials 10-15-20

Market Street
Haven, CT 06513

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

CATALOG NO: S-9862-R2
DESCRIPTION: Custom VOA Std #1
LOT: 210101088
SOLVENT: Methanol

EXPIRATION: Feb 12, 2011
DATE CERTIFIED Oct 12, 2010
See reverse for additional certification information.
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
cetonitrile	75-05-8	99.9	504.3	503.8
thyl chloride	107-05-1	99.1	505.0	500.5
Chlorohexane	544-10-5	99.0	504.5	499.5
hloroprene	126-99-8	98.8	500.5	494.5
ans-1,4-Dichloro-2-butene	110-57-6	98.9	2002	1980
Dioxane	123-91-1	99.7	25013	24938
thyl methacrylate	97-63-2	99.5	5001	4976
obutyl alcohol	78-83-1	99.8	25025	24975
ethacrylonitrile	126-98-7	100	5002	5002
ethyl iodide	74-88-4	98.4	5005	492.5
ethyl methacrylate	80-62-6	99.8	5007	4992
etrachloroethane	76-01-7	95.4	5288	503.9
opionitrile	107-12-0	99.0	25005	24755
rotein	107-02-8	90.0	5555	5027
rylonitrile	107-13-1	99.8	5005	4995

AccuStandard

1. All weights are traceable through NIST, Test #822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty u(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is U(y) x K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its last two lot digits has its origination date changed and is identical to the same lot without the suffix.

Compensated to 100% purity

For use in routine laboratory analysis.

Certified by R. Cooper
Quality Control Manager (QCM) on
Rev. 1/06

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Received 11 Vials 6-25-10

ESTEK

Certificate of Analysis

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 30042 Lot No.: A074633

Description: 502.2 Calibration Mix #1

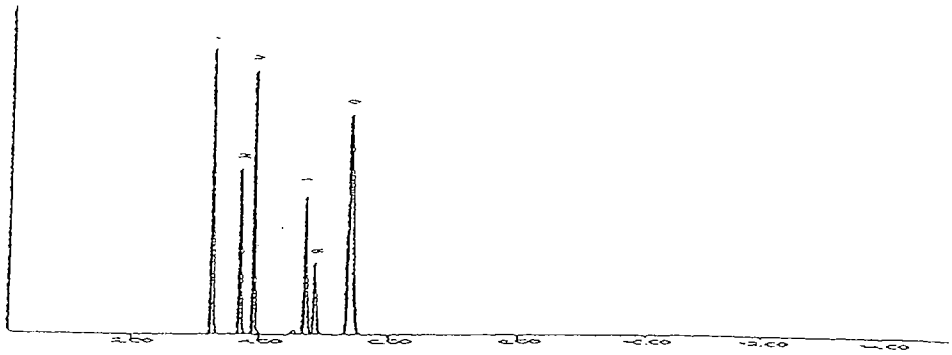
Expiration Date[1]: January 2017 Storage: Freezer

Elution Order	Compound	CAS #	Percent Purity [2]	Concentration [3] (weight/volume)	% Uncertainty [4] (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	99%	1,999.380 ug/ml	+/-0.64 %
2	Chloromethane (methyl chloride)	74-87-3	99%	1,998.050 ug/ml	+/-0.64 %
3	Vinyl chloride	75-01-4	99%	1,999.640 ug/ml	+/-0.67 %
4	Bromomethane (methyl bromide)	74-83-9	99%	2,000.330 ug/ml	+/-0.70 %
5	Chloroethane (ethyl chloride)	75-00-3	99%	2,000.670 ug/ml	+/-0.69 %
6	Trichlorofluoromethane (CFC-11)	75-69-4	99%	2,000.360 ug/ml	+/-0.69 %
Solvent:	P&T Methanol	67-56-1	99%		

x 2.4um
.010916

S:
at flow 2.0 ml/min

gram:
ial to 100°C



Eyster QA Analyst Date Passed 13-May-2010 Balance 1127510105

Manufactured under Restek's ISO 9001:2008
Registered Quality System
Certificate #FM 60397

rte of the unopened ampule stored at the recommended storage condition.

ermined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value is rounded to the nearest

ber. Chemical identity is confirmed using GC/MS. See data pack or contact provider for further details.

with a listed purity of less than 99% have been weight corrected to compensate for impurities.

: types of compounds will have a listed purity of less than 99%. Aldehyde/Ketone-DNPH compounds, Bromides, Chlorides,

IR salts, sulfates, hydrates, and other compounds as necessary. The listed purity is a correction factor that is equivalent

tage of parent compound in the molecule. This correction factor is used to calculate the amount of compound necessary

e desired concentration of the parent compound in solution. The concentration listed on the certificate is the concentration

compound in the solution.

eric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number after summation.

ravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels) and/or class A

d for dilutions.

ketermined using data for balances and glassware from measurement criteria analysis methodology, raw material purity,

fficient, equipment tolerances or calibration results.

10 vials Received 1-6-2010
2nd Source TCL 1 $2

arket Street
aven, CT 06513

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

ATALOG NO: M-502A-R-10X

ESCRIPTION: Volatile Organic Compounds - Liquids

LOT: 209121160

SOLVENT: Methanol

EXPIRATION: Dec 14, 2012

See reverse for additional certification information.

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
ne	71-43-2	99.5	2000	1990
ibenzene	108-86-1	99.5	2001	1991
chloromethane	74-97-5	99.1	2003	1985
-dichloromethane	75-27-4	98.7	2001	1975
form	75-25-2	99.2	2001	1985
lbenzene	104-51-8	99	2001	1981
ylbenzene	135-98-8	100	2001	2001
ylbenzene	98-06-6	99.6	2000	1992
tracchloride	56-23-5	100	2001	2001
benzene	108-90-7	100	2000	2000
form	67-66-3	99.8	2001	1997
ptoluene	95-49-8	98.9	2001	1979
ptoluene	106-43-4	98.6	2000	1970
ochloromethane	124-48-1	99.1	2001	1983
romo-3-chloropropane	96-12-8	100	2000	2000
romomethane	106-93-4	99.7	2007	2005
omomethane	74-83-9	98.6	2001	1973
lorobenzene	108-90-7	100	2000	1964
lorobenzene	541-73-1	99.8	2000	1996
lorobenzene	106-46-7	99.9	2000	1998
loroethane	75-34-3	99.6	2001	1993
loroethane	107-06-2	100	2000	2000
loroethene	75-35-4	99.0	2000	1980
ichloroethene	156-59-2	99.9	2001	1999
-Dichloroethene	156-60-5	96.0	2085 *	2002
oropropane	78-87-5	100	2001	2001
oropropane	142-28-9	99.9	2000	1998
oropropane	594-20-7	100	2000	2000
oropropene	563-58-6	99.1	2000	1982
chloropropene	10061-01-5	97.7	2150 *	2101
Dichloropropene	10061-02-6	97.7	1945 *	1900
ane	100-41-4	99.2	2000	1984

1. All weights are traceable through NIST. Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2%, which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the sa

compensated to 100% purity

Certified by: R. Cooper

AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

AccuStandard

Market Street
Haven, CT 06513

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

CATALOG NO: M-502A-R-10X
DESCRIPTION: Volatile Organic Compounds - Liquids
LOT: 209121160
SOLVENT: Methanol

EXPIRATION: Dec 14, 2012

See reverse for additional certification information.

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
hlorobutadiene	87-68-3	98.0	2001	1961
pylbenzene	98-82-8	100	2000	2000
ropyltoluene	99-87-6	99.4	2001	1989
romethane	75-09-2	99.9	2003	2001
ralene	91-20-3	99.8	2000	1996
ylbenzene	103-65-1	100	2000	2000
:	100-42-5	99.7	2001	1995
-Tetrachloroethane	630-20-6	98.6	2001	1972
-Tetrachloroethane	79-34-5	98.6	2001	1973
loroethene	127-18-4	100	2002	2002
:	108-88-3	99.9	2001	1999
ichlorobenzene	87-61-6	100	2001	2001
ichlorobenzene	120-82-1	99.3	2001	1987
ichloroethane	71-55-6	100	2000	2000
ichloroethane	79-00-5	[illegible]	2000	1966
ethene	79-01-6	100	2001	2001
chloropropane	96-18-4	98.5	2001	1971
methylbenzene	[illegible]-6	98.7	2000	1964
methylbenzene	108-67-8	98.8	2000	1976
	95-47-6	99.0	2000	1980
	[illegible]-3	99.9	2001	1999
	106-42-3	99.9	2000	1998

mponents

mpensated to 100% purity

1. All weights are traceable through NIST, Test No. 822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty u(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is U=u(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the sa

Certified by: R. Cooper

AccuStandard is accredited to ISO/IEC 17025:2005 and certified to ISO 9001:2000

AccuStandard

ket Street
ven, CT 06513

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

ATALOG NO: S-13035
ESCRIPTION: Custom Standard Mix
LOT: B8060071-1A
SOLVENT: Methanol

EXPIRATION: May 25, 2012
DATE CERTIFIED May 25, 2010
See reverse for additional certification information.
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
-Trichlorotrifluoroethane	354-58-5	99	2005	1985
-Trichloro-1,2,2-trifluoroethane	76-13-1	99.2	2001	1985
on disulfide	75-15-0	99.9	2002	2000
E	1634-04-4	99.9	2000	1998
oxyl ether	108-20-3	99.6	2005	1997
hexane	110-82-7	99.9	2001	1999
clohexane	108-87-2	100	2001	2003
yl acetate	79-20-9	99.7	2014	2008

AccuStandard

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±2% which is the Combined Uncertainty (u_c). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is $U = u_c \times k$ where k is the coverage factor = the 95% confidence level (k=2).
3. A product with a suffix (-1A, -2B, -C, or -D1, -D2, etc.) on its lot no. has had its expiration date extended and is identical to the same lot without that suffix.

Certified by: R. Cooper
Ron Cooper, QC Manager

For use in routine laboratory analysis
AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Rev. 100

Received 10 vials 0 10 ml

ESTEK

Certificate of Composition

110 Benner Circle
lefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE

Catalog No.: 563125 Lot No.: A076186

Description: Custom VOA Standard #1

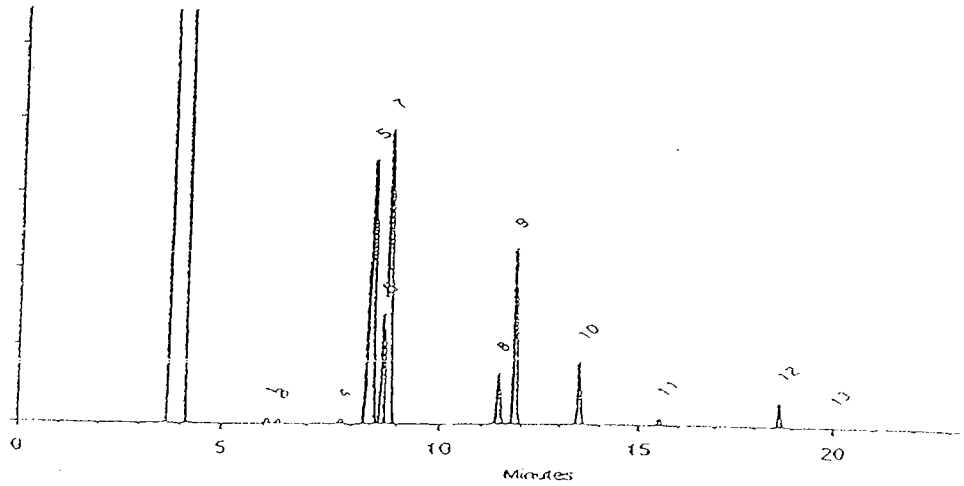
Expiration Date[1]: August 2011 Storage: Freezer

on Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty 4. (95% C.L.; K=2)
1	Acetonitrile	75-05-8	99%	500.000 ug/ml	+/-0.59 %
2	Allyl chloride (3-chloropropene)	107-05-1	99%	500.000 ug/ml	+/-0.59 %
3	Iodomethane (methyl iodide)	74-88-4	94%	500.080 ug/ml	+/-0.59 %
4	Chloroprene (2-chloro-1,3-butadiene)	126-99-8	99%	501.400 ug/ml	+/-5.54 %
5	Methacrylonitrile	126-98-7	99%	5,000.000 ug/ml	+/-0.59 %
6	Propionitrile	107-12-0	99%	25,000.000 ug/ml	+/-0.59 %
7	Isobutanol (2-Methyl-1-propanol)	78-83-1	99%	25,000.000 ug/ml	+/-0.59 %
8	Methyl methacrylate	80-62-6	99%	5,000.000 ug/ml	+/-0.59 %
9	1,4-Dioxane	123-91-1	99%	25,000.000 ug/ml	+/-0.59 %
10	Ethyl methacrylate	97-63-2	99%	5,000.000 ug/ml	+/-0.59 %
11	1-Chlorohexane	544-10-5	99%	500.000 ug/ml	+/-0.59 %
12	trans-1,4-dichloro-2-butene	110-57-6	97%	1,999.655 ug/ml	+/-0.59 %
13	Pentachloroethane	76-01-7	99%	500.000 ug/ml	+/-0.59 %
'ent:	P&T Methanol	67-56-1	99%		

3.0um
09101

ıt pressure 11.0 psi.

3m:
to 240°C
5 min.]



Received 10 vials 3-2-10

ESTEK

Certificate of Composition

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 560345 Lot No.: A073159

Description: Custom Ketones Plus Standard

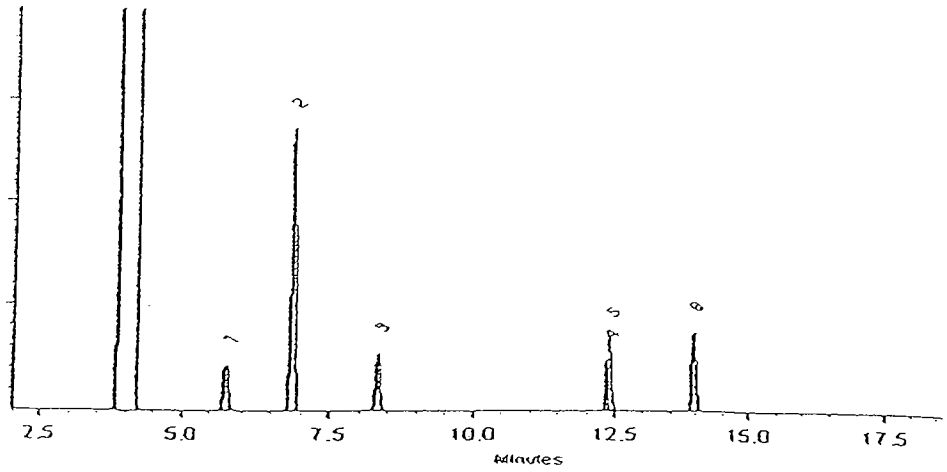
Expiration Date[1]: August 2011 Storage: Freezer

on Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty (95% C.L.; K=2) 4
1	Acetone	67-64-1	99%	3,751.000 ug/ml	+/-0.59 %
2	Acrylonitrile	107-13-1	99%	15,006.000 ug/ml	+/-0.59 %
3	2-Butanone (MEK)	78-93-3	99%	3,752.000 ug/ml	+/-0.59 %
4	2-Chloroethyl vinyl ether	110-75-8	99%	1,501.000 ug/ml	+/-0.59 %
5	4-Methyl-2-pentanone (MIBK)	108-10-1	99%	3,751.000 ug/ml	+/-0.59 %
6	2-Hexanone	591-78-6	99%	3,750.000 ug/ml	+/-0.59 %
lvent:	P&T Methanol/Water (90:10)	67-56-1/7732-18-5	99%		

ix 3.0um
a10910]

s:
tant pressure 11.0 psi

gram:
Inj to 240°C
ld 5 min]



Shaffer - QA Analyst

Date Passed: 24-Feb-2010 Balance: 1128360905

Manufactured under Restek's ISO 9001:2000
Registered Quality System
Certificate #FM80337

ture of the unopened ampule stored at recommended temperature.
determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to
whole number. In addition to detectors listed above, chemical identity and purity are confirmed
or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive
Karl Fisher. See data pack or contact Restek for further details.
with a listed purity of less than 99% have been weight corrected to compensate for impurities.
with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a
actor that was used to calculate the amount of compound necessary to achieve the desired concentration
d compound.
mark compound is reported as the sum of the isomers. Value is rounded to the nearest whole number
ation.
gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels)
A glassware used for dilutions.
determined using repeatability and reproducibility data for balances and glassware from
systems analysis methodology, balance and glassware tolerances, raw material purity, and
able, accuracy and linearity values from an accredited calibration laboratory.

tetrachloroethylene to pentachloroethane may occur if solutions containing 2-chloroethyl vinyl ether are combined with solutions that contain
ene.

Received 10 vials 3-2-10

ESTEK

Certificate of Composition

110 Benner Circle
ellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

Catalog No.: 560347 Lot No.: A073140

Description: Custom Vinyl Acetate Standard

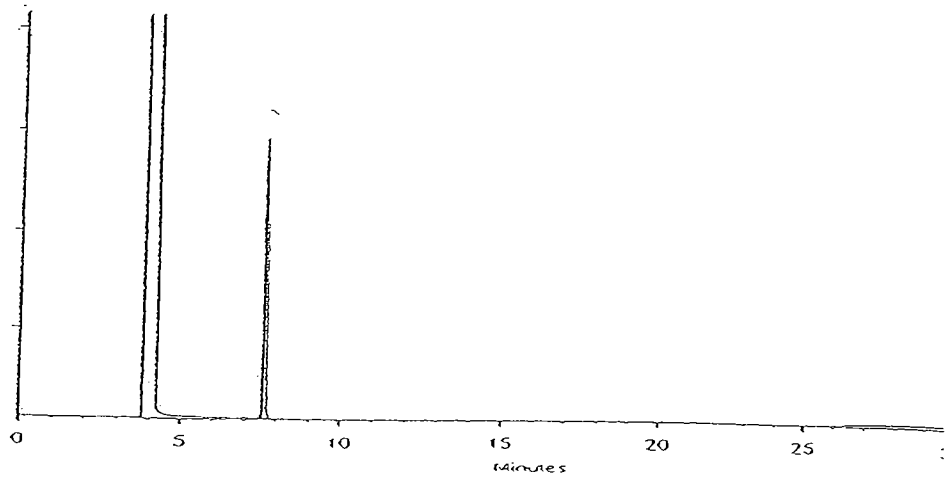
Expiration Date[1]: February 2012 Storage: Freezer

tion Order	Compound	CAS #	Percent Purity 2	Concentration 3 (weight/volume)	% Uncertainty 4 (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	99%	1,504,000 ug/ml	+/-0.59 %
olvent:	P&T Methanol	67-56-1	99%		

m x 3.0um
(#109101

as:
ntant pressure 11.0 psi

ogram:
min/ to 240°C
old 5 min)



sa Eyster
a Eyster QA Analyst

Date Passed: 25-Feb-2010 Balance: 1128360905

Manufactured under Restek's ISO 9001-2000
Registered Quality System
Certificate #FM80397

date of the unopened ampule stored at recommended temperature.
: determined by one or more of the following techniques: GC/FID, HPLC, GC/ECD, GC/MS. Value rounded to
st whole number. In addition to detectors listed above, chemical identity and purity are confirmed
or more of the following: MS, DSC, solid probe MS, GC/FPD, GC/NPD, GC/TC, FTIR, melting point, refractive
Karl Fisher. See data pack or contact Restek for further details.
s with a listed purity of less than 99% have been weight corrected to compensate for impurities.
s with a listed purity of less than 99% may be salts, derivatives, or hydrates. The listed purity is actually a
factor that was used to calculate the amount of compound necessary to achieve the desired concentration
nt compound
omeric compounds is reported as the sum of the isomers. Value is rounded to the nearest whole number
ation
gravimetric preparation with balance calibration verified using NIST traceable weights (seven mass levels)
. A glassware used for dilutions.
s determined using repeatability and reproducibility data for balances and glassware from
k systems analysis methodology, balance and glassware tolerances, raw material purity, and
able, eccentricity and linearity values from an accredited calibration laboratory.

, a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to
s (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl
s of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the
alibration solution immediately before use. This will minimize problems and ensure more consistent results.

Certificate of Analysis

NSI Solutions, Inc. * 7212 ACC Blvd. * Raleigh, NC 27617 * 1-800-234-7837

Custom Name: Acrolein
Custom Number: Q-6087-O
Lot Number: 122210-01

Expiration Date: 03/11
Solvent: P&T MeOH/H2O (9:1)
(FLAMMABLE, IRRITANT)

COMPOUND NUMBER	ANALYTE	CHROMATOGRAPHIC Purity %	GRAVIMETRIC CONCENTRATION (ug/mL)
W-02-06	Acrolein	99.2%	15017

PREPARATION: Reported concentration value has been corrected for purity. Concentration is calculated from wt/vol or vol/vol measurements using microbalances calibrated with NIST traceable weights and/or ASTM Class A volumetric glassware or calibrated equivalent labware.

STORAGE & HANDLING: Store at < 5° C. Allow to equilibrate to room temperature before use.

Kristi Bright

Kristi Bright, Organic Chemist

Received 10/1/13 [illegible]

et Street
ven, CT 06513

AccuStandard, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

ATALOG NO: M-5028-10X
ESCRIPTION: Volatile Organic Cmpds - Gases
LOT: 210041396
SOLVENT: Methanol

EXPIRATION: May 5, 2013
DATE CERTIFIED May 5, 2010
See reverse for additional certification information.
SAMPLE SIZE: 1 mL
STORAGE CONDITION: Refrig (0-5° C)
HAZARDS: FLAMMABLE

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
romomethane	74-83-9	99.0	2020	2000
rochane	75-00-3	99.7	2010	2004
romethane	74-87-3	99.5	2010	2000
lorodifluoromethane	75-71-8	98	2008	1968
lorofluoromethane	75-69-4	100	2001	2001
l chloride	75-01-4	99.5	2010	2000

AccuStandard

1. All weights are traceable through NIST, Test No822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for the assay is 0.2% which is the Combined Uncertainty u(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U where U(y) = k u(y) where k is the coverage factor at the 95% confidence level (k=2).
3. A product with a suffix (-1A, -2B, -5C or -01, -02, -05) on its lot number indicates that the certification date extended past the original lot number without the suffix.

For use in routine laboratory analysis

Certified by: R Cooper
Rick Cooper, QC Manager

8260B 25ML

TO MAKE THE STOCK SOLUTION FOR LEVELS 1-6: ADD THE FOLLOWING TO A 100ML VOLUMETRIC FLASK CONTAINING DI WATER (THE SURROGATES WILL BE ADDED IN THE LAST STEP):

50UL TCL4 1&2 MIX
100UL TLC4 KETONES
50UL TCL4 GAS MIX
50UL TCL4 APPIX MIX

FOR LEVELS 1 AND 2 HAVE THE ARCHON ADD IS ONLY.
FOR LEVELS 3, 4, 5 AND 6 HAVE ARCHON ADD IS/SURR.

LEVEL	CONC.	STOCK SOLUTION	SAMPLE SURROGATE (50NG)
1	0.5PPB	50UL	0.25UL
2	001PPB	100UL	0.5UL
3	005PPB	500UL	---
4	010PPB	1ML	2.5UL
5	020PPB	2ML	7.5UL
6	040PPB	4ML	17.5UL

CONTINUING CALIBRATIONS (CCVS) ARE PREPAIRED SAME AS LEVEL 3.

C. SDG Data

1. **QC Summary**
2. **Sample Data**
3. **Standards Data**
4. **Raw QC Data**

METHOD: 8260B

SDG: 1103087

1. QC Summary

a. Surrogate Recovery Results

(SURROGATE STANDARD RECOVERY AND RT SUMMARY)

b. Internal Standard Results

(INTERNAL STANDARD AREA AND RT SUMMARY)

c. Laboratory Control Sample Results

(LCS/LCS DUPLICATE RECOVERY)

d. Matrix Spike Results

(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

e. Instrument Performance Check

(MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK)

f. Analysis Sequence Summary

(ANALYSIS SEQUENCE SUMMARY)

g. Sample Preparation and Analysis Holding Time Data

(HOLDING TIME SUMMARY)

a. Surrogate Recovery Results

(SURROGATE STANDARD RECOVERY AND RT SUMMARY)

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Blank (1031819-BLK1) ug/L Lab File ID: 1031819-BLK191.c Analyzed: 03/18/11 18:53				
Dibromofluoromethane	5.000	103	65 - 150	
1,2-Dichloroethane-d4	5.000	102	59 - 150	
Toluene-d8	5.000	101	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
LCS (1031819-BS1) ug/L Lab File ID: 1031819-BS191.d Analyzed: 03/18/11 19:32				
Dibromofluoromethane	5.000	107	65 - 150	
1,2-Dichloroethane-d4	5.000	110	59 - 150	
Toluene-d8	5.000	103	61 - 145	
Bromofluorobenzene	5.000	101	63 - 143	
MW-3 (1103087-01) ug/L Lab File ID: 1103087-0191.d Analyzed: 03/18/11 20:26				
Dibromofluoromethane	5.000	97	65 - 150	
1,2-Dichloroethane-d4	5.000	88	59 - 150	
Toluene-d8	5.000	111	61 - 145	
Bromofluorobenzene	5.000	103	63 - 143	
MW-2 (1103087-02) ug/L Lab File ID: 1103087-0291.d Analyzed: 03/18/11 20:55				
Dibromofluoromethane	5.000	104	65 - 150	
1,2-Dichloroethane-d4	5.000	101	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
MW-8 (1103087-03) ug/L Lab File ID: 1103087-0391.d Analyzed: 03/18/11 21:24				
Dibromofluoromethane	5.000	111	65 - 150	
1,2-Dichloroethane-d4	5.000	108	59 - 150	
Toluene-d8	5.000	108	61 - 145	
Bromofluorobenzene	5.000	102	63 - 143	

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
MW-9 (1103087-04) ug/L Lab File ID: 1103087-0491.d Analyzed: 03/18/11 21:52				
Dibromofluoromethane	5.000	106	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	104	61 - 145	
Bromofluorobenzene	5.000	97	63 - 143	
MW-12 (1103087-05) ug/L Lab File ID: 1103087-0591.d Analyzed: 03/18/11 22:21				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	99	63 - 143	
MW-17 (1103087-06) ug/L Lab File ID: 1103087-0691.d Analyzed: 03/18/11 22:50				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	107	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	
TRIPBLANK (1103087-07) ug/L Lab File ID: 1103087-0791.d Analyzed: 03/18/11 23:19				
Dibromofluoromethane	5.000	109	65 - 150	
1,2-Dichloroethane-d4	5.000	107	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	97	63 - 143	
MW-2 (1103087-02RE1) ug/L Lab File ID: 1103087-02D91.d Analyzed: 03/18/11 23:48				
Dibromofluoromethane	5.000	110	65 - 150	
1,2-Dichloroethane-d4	5.000	105	59 - 150	
Toluene-d8	5.000	105	61 - 145	
Bromofluorobenzene	5.000	98	63 - 143	

SURROGATE STANDARD RECOVERY

SW 8260B

Client: DRAPER

Project: WATAUGA COUNTY LANDFILL 6520-39

SDG: 1103087 Instrument: 5975hpms91

Sequence: 1C18005 Calibration: 1032305

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	Q
Matrix Spike (1031819-MS1) ug/L Lab File ID: 1031819-MS191.d Analyzed: 03/19/11 00:17				
Dibromofluoromethane	5.000	108	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	102	61 - 145	
Bromofluorobenzene	5.000	95	63 - 143	
Matrix Spike Dup (1031819-MSD1) ug/L Lab File ID: 1031819-MSD191.d Analyzed: 03/19/11 00:46				
Dibromofluoromethane	5.000	105	65 - 150	
1,2-Dichloroethane-d4	5.000	104	59 - 150	
Toluene-d8	5.000	98	61 - 145	
Bromofluorobenzene	5.000	93	63 - 143	

b. Internal Standard Results

(INTERNAL STANDARD AREA AND RT SUMMARY)

INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Sequence:	1C18005	Instrument:	5975hpms91
		Calibration:	1032305

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C18005-CCV1)			Lab File ID: 1C18005-CCV191.d			Analyzed: 03/18/11 16:37			
Fluorobenzene	704689	10.111	751129	10.105	94	50 - 200	0.0060	+/-0.06	
Chlorobenzene-d5	510439	12.403	527640	12.397	97	50 - 200	0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	262064	14.043	266024	14.037	99	50 - 200	0.0060	+/-0.06	
Blank (1031819-BLK1)			Lab File ID: 1031819-BLK191.d			Analyzed: 03/18/11 18:53			
Fluorobenzene	656014	10.111	704689	10.111	93	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	455403	12.403	510439	12.403	89	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	217220	14.037	262064	14.043	83	50 - 200	-0.0060	+/-0.06	
LCS (1031819-BS1)			Lab File ID: 1031819-BS191.d			Analyzed: 03/18/11 19:32			
Fluorobenzene	661674	10.111	704689	10.111	94	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	491900	12.397	510439	12.403	96	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	251139	14.043	262064	14.043	96	50 - 200	0.0000	+/-0.06	
MW-3 (1103087-01)			Lab File ID: 1103087-0191.d			Analyzed: 03/18/11 20:26			
Fluorobenzene	596279	10.111	704689	10.111	85	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	391335	12.403	510439	12.403	77	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	172225	14.037	262064	14.043	66	50 - 200	-0.0060	+/-0.06	
MW-2 (1103087-02)			Lab File ID: 1103087-0291.d			Analyzed: 03/18/11 20:55			
Fluorobenzene	607435	10.111	704689	10.111	86	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	425774	12.403	510439	12.403	83	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	201666	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
MW-8 (1103087-03)			Lab File ID: 1103087-0391.d			Analyzed: 03/18/11 21:24			
Fluorobenzene	599970	10.111	704689	10.111	85	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	428620	12.403	510439	12.403	84	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	202123	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
MW-9 (1103087-04)			Lab File ID: 1103087-0491.d			Analyzed: 03/18/11 21:52			
Fluorobenzene	606152	10.111	704689	10.111	86	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	432358	12.403	510439	12.403	85	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	206576	14.037	262064	14.043	79	50 - 200	-0.0060	+/-0.06	
MW-12 (1103087-05)			Lab File ID: 1103087-0591.d			Analyzed: 03/18/11 22:21			
Fluorobenzene	594324	10.111	704689	10.111	84	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	433033	12.397	510439	12.403	85	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	205510	14.037	262064	14.043	78	50 - 200	-0.0060	+/-0.06	

INTERNAL STANDARD AREA AND RT SUMMARY
SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Sequence:	1C18005	Instrument:	5975hpms91
		Calibration:	1032305

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
MW-17 (1103087-06)			Lab File ID: 1103087-0691.d			Analyzed: 03/18/11 22:50			
Fluorobenzene	582442	10.111	704689	10.111	83	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	419700	12.403	510439	12.403	82	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	201048	14.037	262064	14.043	77	50 - 200	-0.0060	+/-0.06	
TRIPBLANK (1103087-07)			Lab File ID: 1103087-0791.d			Analyzed: 03/18/11 23:19			
Fluorobenzene	576009	10.111	704689	10.111	82	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	417839	12.403	510439	12.403	82	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	198345	14.037	262064	14.043	76	50 - 200	-0.0060	+/-0.06	
MW-2 (1103087-02RE1)			Lab File ID: 1103087-02D91.d			Analyzed: 03/18/11 23:48			
Fluorobenzene	571553	10.111	704689	10.111	81	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	407661	12.403	510439	12.403	80	50 - 200	0.0000	+/-0.06	
1,4-Dichlorobenzene-d4	193018	14.043	262064	14.043	74	50 - 200	0.0000	+/-0.06	
Matrix Spike (1031819-MS1)			Lab File ID: 1031819-MS191.d			Analyzed: 03/19/11 00:17			
Fluorobenzene	614830	10.111	704689	10.111	87	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	462028	12.397	510439	12.403	91	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	235728	14.037	262064	14.043	90	50 - 200	-0.0060	+/-0.06	
Matrix Spike Dup (1031819-MSD1)			Lab File ID: 1031819-MSD191.d			Analyzed: 03/19/11 00:46			
Fluorobenzene	631424	10.111	704689	10.111	90	50 - 200	0.0000	+/-0.06	
Chlorobenzene-d5	473156	12.397	510439	12.403	93	50 - 200	-0.0060	+/-0.06	
1,4-Dichlorobenzene-d4	245170	14.037	262064	14.043	94	50 - 200	-0.0060	+/-0.06	

c. Laboratory Control Sample Results

(LCS/LCS DUPLICATE RECOVERY)

LCS/LCSD recovery, relative percent difference and quality control acceptance criteria

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	5.000	5.353	107		50 - 150
Chloromethane	5.000	5.257	105		50 - 150
Vinyl chloride	5.000	5.301	106		61 - 150
Bromomethane	5.000	5.496	110		50 - 150
Chloroethane	5.000	4.965	99		54 - 150
Trichlorofluoromethane	5.000	5.642	113		56 - 150
Acrolein	50.00	51.53	103		50 - 150
1,1-Dichloroethene	5.000	5.474	109		74 - 143
Acetone	25.00	26.06	104		50 - 150
Iodomethane	5.000	4.494	90		50 - 150
Carbon disulfide	5.000	5.622	112		50 - 150
3-Chloropropene	5.000	5.473	109		50 - 150
Acetonitrile	5.000	5.245	105		50 - 150
Methylene chloride	5.000	5.621	112		50 - 139
Acrylonitrile	50.00	54.47	109		50 - 150
trans-1,2-Dichloroethene	5.000	5.274	105		50 - 137
1,1-Dichloroethane	5.000	5.442	109		59 - 138
Chloroprene	5.000	5.086	102		50 - 150
Vinyl acetate	10.00	10.64	106		50 - 150
cis-1,2-Dichloroethene	5.000	5.365	107		69 - 140
2,2-Dichloropropane	5.000	5.201	104		50 - 150
Propionitrile	250.0	282.7	113		50 - 150
2-Butanone	25.00	25.13	101		65 - 134
Methacrylonitrile	50.00	57.80	116		50 - 150
Bromochloromethane	5.000	5.404	108		50 - 150
Chloroform	5.000	5.387	108		67 - 147
1,1,1-Trichloroethane	5.000	5.273	105		71 - 137
1,1-Dichloropropene	5.000	5.468	109		50 - 150
Carbon tetrachloride	5.000	5.321	106		68 - 145
1,2-Dichloroethane	5.000	5.490	110		61 - 150

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Isobutyl alcohol	250.0	260.6	104		50 - 150
Benzene	5.000	5.347	107		68 - 138
Trichloroethene	5.000	5.122	102		55 - 150
1,2-Dichloropropane	5.000	5.488	110		67 - 137
Dibromomethane	5.000	5.449	109		50 - 150
Methyl Methacrylate	50.00	60.23	120		50 - 150
Bromodichloromethane	5.000	5.351	107		73 - 142
cis-1,3-Dichloropropene	5.000	5.153	103		74 - 134
4-Methyl-2-pentanone	25.00	26.44	106		66 - 127
Toluene	5.000	5.086	102		60 - 142
trans-1,3-Dichloropropene	5.000	5.429	109		66 - 130
1,1,2-Trichloroethane	5.000	5.201	104		68 - 130
Ethyl Methacrylate	50.00	56.31	113		50 - 150
1,3-Dichloropropane	5.000	5.459	109		50 - 150
Tetrachloroethene	5.000	3.756	75		65 - 137
2-Hexanone	25.00	26.46	106		53 - 140
Dibromochloromethane	5.000	5.025	100		68 - 137
Chlorobenzene	5.000	5.081	102		68 - 129
1,1,1,2-Tetrachloroethane	5.000	5.064	101		50 - 150
Ethylbenzene	5.000	5.218	104		67 - 127
m,p-Xylene	10.00	10.52	105		60 - 140
o-Xylene	5.000	5.275	106		60 - 140
Styrene	5.000	5.267	105		66 - 139
Bromoform	5.000	4.935	99		62 - 138
1,1,2,2-Tetrachloroethane	5.000	5.299	106		63 - 122
1,2,3-Trichloropropane	5.000	5.376	108		50 - 150
trans-1,4-Dichloro-2-butene	20.00	20.78	104		50 - 150
1,3-Dichlorobenzene	5.000	5.112	102		64 - 136
1,4-Dichlorobenzene	5.000	4.962	99		69 - 125
1,2-Dichlorobenzene	5.000	5.014	100		71 - 127
1,2,4-Trichlorobenzene	5.000	5.089	102		52 - 147

LCS / LCS DUPLICATE RECOVERY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-BS1 Matrix: Water Client ID: VKTLCS Batch: 1031819

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	Q	QC LIMITS REC.
Hexachlorobutadiene	5.000	5.199	104		50 - 150
Naphthalene	5.000	4.881	98		50 - 150
Xylenes (total)	15.00	15.80	105		60 - 140

d. Matrix Spike Results

(MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY)

MS/MSD recovery, relative percent difference and quality control acceptance criteria

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MS

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MS1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Dichlorodifluoromethane	5.000	0.50 U	5.912	118		50 - 150
Chloromethane	5.000	0.50 U	5.744	115		50 - 150
Vinyl chloride	5.000	0.50 U	6.250	125		61 - 150
Bromomethane	5.000	0.50 U	6.425	128		50 - 150
Chloroethane	5.000	1.9	7.372	109		54 - 150
Trichlorofluoromethane	5.000	0.50 U	6.415	128		56 - 150
Acrolein	50.00	5.0 U	45.96	92		50 - 150
1,1-Dichloroethene	5.000	0.50 U	6.272	125		74 - 143
Acetone	25.00	2.5 U	26.81	107		50 - 150
Iodomethane	5.000	0.50 U	4.562	91		50 - 150
Carbon disulfide	5.000	0.50 U	6.411	128		50 - 150
3-Chloropropene	5.000	0.50 U	6.001	120		50 - 150
Acetonitrile	5.000	0.50 U	5.813	116		50 - 150
Methylene chloride	5.000	0.50 U	6.108	120		50 - 139
Acrylonitrile	50.00	5.0 U	48.15	96		50 - 150
trans-1,2-Dichloroethene	5.000	0.50 U	5.806	111		50 - 137
1,1-Dichloroethane	5.000	7.5	12.63	103		59 - 138
Chloroprene	5.000	0.50 U	5.446	109		50 - 150
Vinyl acetate	10.00	1.0 U	10.07	101		50 - 150
cis-1,2-Dichloroethene	5.000	17	22.20	104		69 - 140
2,2-Dichloropropane	5.000	0.50 U	5.923	118		50 - 150
Propionitrile	250.0	25 U	257.1	103		50 - 150
2-Butanone	25.00	2.5 U	22.18	89		65 - 134
Methacrylonitrile	50.00	5.0 U	51.61	103		50 - 150
Bromochloromethane	5.000	0.50 U	5.409	108		50 - 150
Chloroform	5.000	0.50 U	5.745	111		67 - 147
1,1,1-Trichloroethane	5.000	0.50 U	5.649	113		71 - 137
1,1-Dichloropropene	5.000	0.50 U	5.846	117		50 - 150
Carbon tetrachloride	5.000	0.50 U	5.774	115		68 - 145
1,2-Dichloroethane	5.000	0.50 U	5.473	109		61 - 150
Isobutyl alcohol	250.0	25 U	244.4	98		50 - 150
Benzene	5.000	0.50 U	5.486	110		68 - 138
Trichloroethene	5.000	2.1	7.279	103		55 - 150
1,2-Dichloropropane	5.000	0.50 U	5.801	112		67 - 137

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MS

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MS1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Dibromomethane	5.000	0.50 U	5.202	104		50 - 150
Methyl Methacrylate	50.00	5.0 U	54.42	109		50 - 150
Bromodichloromethane	5.000	0.50 U	5.224	104		73 - 142
cis-1,3-Dichloropropene	5.000	0.50 U	4.868	97		74 - 134
4-Methyl-2-pentanone	25.00	2.5 U	23.47	94		66 - 127
Toluene	5.000	0.50 U	5.188	104		60 - 142
trans-1,3-Dichloropropene	5.000	0.50 U	5.128	103		66 - 130
1,1,2-Trichloroethane	5.000	0.50 U	4.844	97		68 - 130
Ethyl Methacrylate	50.00	5.0 U	52.38	105		50 - 150
1,3-Dichloropropane	5.000	0.50 U	5.075	102		50 - 150
Tetrachloroethene	5.000	0.50 U	4.036	77		65 - 137
2-Hexanone	25.00	2.5 U	22.94	92		53 - 140
Dibromochloromethane	5.000	0.50 U	4.723	94		68 - 137
Chlorobenzene	5.000	0.50 U	5.089	102		68 - 129
1,1,1,2-Tetrachloroethane	5.000	0.50 U	4.987	100		50 - 150
Ethylbenzene	5.000	0.50 U	5.121	102		67 - 127
m,p-Xylene	10.00	1.0 U	10.34	103		60 - 140
o-Xylene	5.000	0.50 U	5.066	101		60 - 140
Styrene	5.000	0.50 U	5.023	100		66 - 139
Bromoform	5.000	0.50 U	4.382	88		62 - 139
1,1,2,2-Tetrachloroethane	5.000	0.50 U	4.697	94		63 - 122
1,2,3-Trichloropropane	5.000	0.50 U	4.812	96		50 - 150
trans-1,4-Dichloro-2-butene	20.00	2.0 U	19.53	98		50 - 150
1,3-Dichlorobenzene	5.000	0.50 U	4.613	92		64 - 136
1,4-Dichlorobenzene	5.000	0.50 U	4.611	92		69 - 125
1,2-Dichlorobenzene	5.000	0.50 U	4.629	93		71 - 127
1,2,4-Trichlorobenzene	5.000	0.50 U	4.020	80		52 - 147
Hexachlorobutadiene	5.000	0.50 U	4.484	90		50 - 150
Naphthalene	5.000	0.50 U	3.603	72		50 - 150
Xylenes (total)	15.00	0.50 U	15.40	103		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MSD

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MSD1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Dichlorodifluoromethane	5.000	5.908	118	0.06		25	50 - 150
Chloromethane	5.000	5.887	118	2		25	50 - 150
Vinyl chloride	5.000	6.120	122	2		25	61 - 150
Bromomethane	5.000	5.989	120	7		25	50 - 150
Chloroethane	5.000	7.395	109	0.3		25	54 - 150
Trichlorofluoromethane	5.000	6.324	126	1		25	56 - 150
Acrolein	50.00	49.57	99	8		25	50 - 150
1,1-Dichloroethene	5.000	5.999	120	4		14	74 - 143
Acetone	25.00	27.19	109	1		25	50 - 150
Iodomethane	5.000	5.057	101	10		25	50 - 150
Carbon disulfide	5.000	6.176	124	4		25	50 - 150
3-Chloropropene	5.000	5.933	119	1		25	50 - 150
Acetonitrile	5.000	5.786	116	0.5		25	50 - 150
Methylene chloride	5.000	5.914	116	3		25	50 - 139
Acrylonitrile	50.00	49.42	99	3		25	50 - 150
trans-1,2-Dichloroethene	5.000	5.618	107	3		25	50 - 137
1,1-Dichloroethane	5.000	12.29	96	3		25	59 - 138
Chloroprene	5.000	5.323	106	2		25	50 - 150
Vinyl acetate	10.00	10.18	102	1		25	50 - 150
cis-1,2-Dichloroethene	5.000	21.77	95	2		25	69 - 140
2,2-Dichloropropane	5.000	5.700	114	4		25	50 - 150
Propionitrile	250.0	259.2	104	0.8		25	50 - 150
2-Butanone	25.00	23.16	93	4		25	65 - 134
Methacrylonitrile	50.00	52.56	105	2		25	50 - 150
Bromochloromethane	5.000	5.249	105	3		25	50 - 150
Chloroform	5.000	5.578	108	3		25	67 - 147
1,1,1-Trichloroethane	5.000	5.475	110	3		25	71 - 137
1,1-Dichloropropene	5.000	5.680	114	3		25	50 - 150
Carbon tetrachloride	5.000	5.571	111	4		25	68 - 145
1,2-Dichloroethane	5.000	5.405	108	1		25	61 - 150
Isobutyl alcohol	250.0	256.5	103	5		25	50 - 150
Benzene	5.000	5.348	107	3		11	68 - 138
Trichloroethene	5.000	7.123	100	2		14	55 - 150
1,2-Dichloropropane	5.000	5.657	109	3		25	67 - 137
Dibromomethane	5.000	5.141	103	1		25	50 - 150

Environmental Testing Laboratories CompuChem A Division Of Liberty Analytical Corp.

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW 8260B

MW-3MSD

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Lab ID: 1031819-MSD1 % Solid: NA Matrix: Water Lab Source ID: 1103087-01 Source Sample: MW-3

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Methyl Methacrylate	50.00	56.16	112	3		25	50 - 150
Bromodichloromethane	5.000	5.196	104	0.5		25	73 - 142
cis-1,3-Dichloropropene	5.000	4.908	98	0.8		25	74 - 134
4-Methyl-2-pentanone	25.00	24.49	98	4		25	66 - 127
Toluene	5.000	5.055	101	3		13	60 - 142
trans-1,3-Dichloropropene	5.000	5.153	103	0.5		25	66 - 130
1,1,2-Trichloroethane	5.000	4.863	97	0.4		25	68 - 130
Ethyl Methacrylate	50.00	53.65	107	2		25	50 - 150
1,3-Dichloropropane	5.000	5.100	102	0.5		25	50 - 150
Tetrachloroethene	5.000	4.019	77	0.4		25	65 - 137
2-Hexanone	25.00	24.20	97	5		25	53 - 140
Dibromochloromethane	5.000	4.731	95	0.2		25	68 - 137
Chlorobenzene	5.000	5.087	102	0.04		13	68 - 129
1,1,1,2-Tetrachloroethane	5.000	4.955	99	0.7		25	50 - 150
Ethylbenzene	5.000	5.166	103	0.9		25	67 - 127
m,p-Xylene	10.00	10.56	106	2		25	60 - 140
o-Xylene	5.000	5.241	105	3		25	60 - 140
Styrene	5.000	5.064	101	0.8		25	66 - 139
Bromoform	5.000	4.542	91	4		25	62 - 139
1,1,2,2-Tetrachloroethane	5.000	4.726	95	0.6		25	63 - 122
1,2,3-Trichloropropane	5.000	4.997	100	4		25	50 - 150
trans-1,4-Dichloro-2-butene	20.00	20.21	101	3		25	50 - 150
1,3-Dichlorobenzene	5.000	4.876	98	6		25	64 - 136
1,4-Dichlorobenzene	5.000	4.905	98	6		25	69 - 125
1,2-Dichlorobenzene	5.000	4.856	97	5		25	71 - 127
1,2,4-Trichlorobenzene	5.000	4.637	93	14		25	52 - 147
Hexachlorobutadiene	5.000	5.047	101	12		25	50 - 150
Naphthalene	5.000	4.275	85	17		25	50 - 150
Xylenes (total)	15.00	15.80	105	3		25	60 - 140

e. Instrument Performance Check

(MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK)

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Lab File ID:	1C17006-TUN191.d	Injection Date:	03/17/11
Instrument ID:	5975hpms91	Injection Time:	13:53
Sequence:	1C17006	Lab Sample ID:	1C17006-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.7	PASS
75	30 - 60% of 95	52.1	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.62	PASS
173	Less than 2% of 174	0.828	PASS
174	(Greater than 50% of 95)	68.9	PASS
175	5 - 9% of 174	7.02	PASS
176	(Greater than 95% but less then 101%)	96.3	PASS
177	5 - 9% of 176	6.6	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW 8260B

Laboratory:	COMPUCHEM	SDG:	1103087
Client:	DRAPER	Project:	WATAUGA COUNTY LANDFILL 6520-39
Lab File ID:	1C18005-TUN191.d	Injection Date:	03/18/11
Instrument ID:	5975hpms91	Injection Time:	16:09
Sequence:	1C18005	Lab Sample ID:	1C18005-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.5	PASS
75	30 - 60% of 95	51.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.77	PASS
173	Less than 2% of 174	0.844	PASS
174	(Greater than 50% of 95)	72.2	PASS
175	5 - 9% of 174	7.09	PASS
176	(Greater than 95% but less then 101%)	96.7	PASS
177	5 - 9% of 176	6.4	PASS

f. Analysis Sequence Summary

(ANALYSIS SEQUENCE SUMMARY)

ANALYSIS SEQUENCE SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Sequence: 1C17006 Instrument: 5975hpms91

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
BFB	1C17006-TUN1	1C17006-TUN191.d	03/17/11 13:53:00
VSTD001	1C17006-CAL2	1C17006-CAL291.d	03/17/11 14:27:00
VSTD0.5	1C17006-CAL1	1C17006-CAL191.d	03/17/11 14:56:00
VSTD005	1C17006-CAL3	1C17006-CAL391.d	03/17/11 15:25:00
VSTD010	1C17006-CAL4	1C17006-CAL491.d	03/17/11 15:54:00
VSTD020	1C17006-CAL5	1C17006-CAL591.d	03/17/11 16:23:00
VSTD040	1C17006-CAL6	1C17006-CAL691.d	03/17/11 16:52:00

ANALYSIS SEQUENCE SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Sequence: 1C18005 Instrument: 5975hpms91

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
BFB	1C18005-TUN1	1C18005-TUN191.d	03/18/11 16:09:00
VSTD005	1C18005-CCV1	1C18005-CCV191.d	03/18/11 16:37:00
VBLKKT	1031819-BLK1	1031819-BLK191.d	03/18/11 18:53:00
VKTLCS	1031819-BS1	1031819-BS191.d	03/18/11 19:32:00
MW-3	1103087-01	1103087-0191.d	03/18/11 20:26:00
MW-2	1103087-02	1103087-0291.d	03/18/11 20:55:00
MW-8	1103087-03	1103087-0391.d	03/18/11 21:24:00
MW-9	1103087-04	1103087-0491.d	03/18/11 21:52:00
MW-12	1103087-05	1103087-0591.d	03/18/11 22:21:00
MW-17	1103087-06	1103087-0691.d	03/18/11 22:50:00
TRIPBLANK	1103087-07	1103087-0791.d	03/18/11 23:19:00
MW-2DL	1103087-02RE1	1103087-02D91.d	03/18/11 23:48:00
MW-3MS	1031819-MS1	1031819-MS191.d	03/19/11 00:17:00
MW-3MSD	1031819-MSD1	1031819-MSD191.d	03/19/11 00:46:00

g. Sample Preparation and Analysis Holding Time Data

(HOLDING TIME SUMMARY)

Sample collection, receipt, preparation, analysis dates and quality control acceptance criteria.

PREPARATION BATCH SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087 Project: WATAUGA COUNTY LANDFILL 6520-39

Batch: 1031819 Matrix: Water Preparation: SW 5030A/5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL/WT (mL)	FINAL VOL/WT (mL)
VBLKKT	1031819-BLK1	03/18/11 18:53	25.0	25.0
VKTLCS	1031819-BS1	03/18/11 18:53	25.0	25.0
MW-3MS	1031819-MS1	03/18/11 18:53	25.0	25.0
MW-3MSD	1031819-MSD1	03/18/11 18:53	25.0	25.0
MW-3	1103087-01	03/18/11 18:53	25.0	25.0
MW-2	1103087-02	03/18/11 18:53	25.0	25.0
MW-2DL	1103087-02RE1	03/18/11 18:53	25.0	25.0
MW-8	1103087-03	03/18/11 18:53	25.0	25.0
MW-9	1103087-04	03/18/11 18:53	25.0	25.0
MW-12	1103087-05	03/18/11 18:53	25.0	25.0
MW-17	1103087-06	03/18/11 18:53	25.0	25.0
TRIPBLANK	1103087-07	03/18/11 18:53	25.0	25.0

HOLDING TIME SUMMARY

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
MW-3	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-2	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-2DL	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-8	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-9	03/16/11	03/18/11	03/18/11	N/A	14	03/18/11	2	14	
MW-12	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
MW-17	03/17/11	03/18/11	03/18/11	N/A	14	03/18/11	1	14	
TRIPBLANK	03/15/11	03/18/11	03/18/11	N/A	14	03/18/11	4	14	

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (ANALYSIS DATA SHEET), followed by the raw data for volatile samples. These sample packets shall be placed in increasing Client Sample ID number order, considering both letters and numbers.

a. Target Analyte Results (ANALYSIS DATA SHEET)
Tabulated results (identification and quantitation) shall be included.

b. Reconstructed Ion Chromatograms (RICs)
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: Client Sample ID number, date and time of analysis, instrument ID, Lab file ID, and analyst ID.

d. Quantitation Report showing calculations for target analytes
Include a printout of the Extracted Ion Current Profile (EICP) for all manual changes to all compounds, internal standards, and surrogate compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of target analytes identified in the sample.
- The spectra shall include the following information: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

f. Copies of mass spectra of Tentatively Identified Compounds (TICs) with associated best-match spectra.
- The spectra shall be labeled as follows: Client Sample ID number, Lab file ID, date and time of analysis, and instrument ID.

ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0291.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:55

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene	39	0.040	0.50	
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.19	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane	21	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane	140	0.020	0.50	E
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	0.22	0.030	0.50	J
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-2

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0291.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:55

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	1.3	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.202	104	65 - 150	
1,2-Dichloroethane-d4	5.000	5.031	101	59 - 150	
Toluene-d8	5.000	5.215	104	61 - 145	
Bromofluorobenzene	5.000	4.885	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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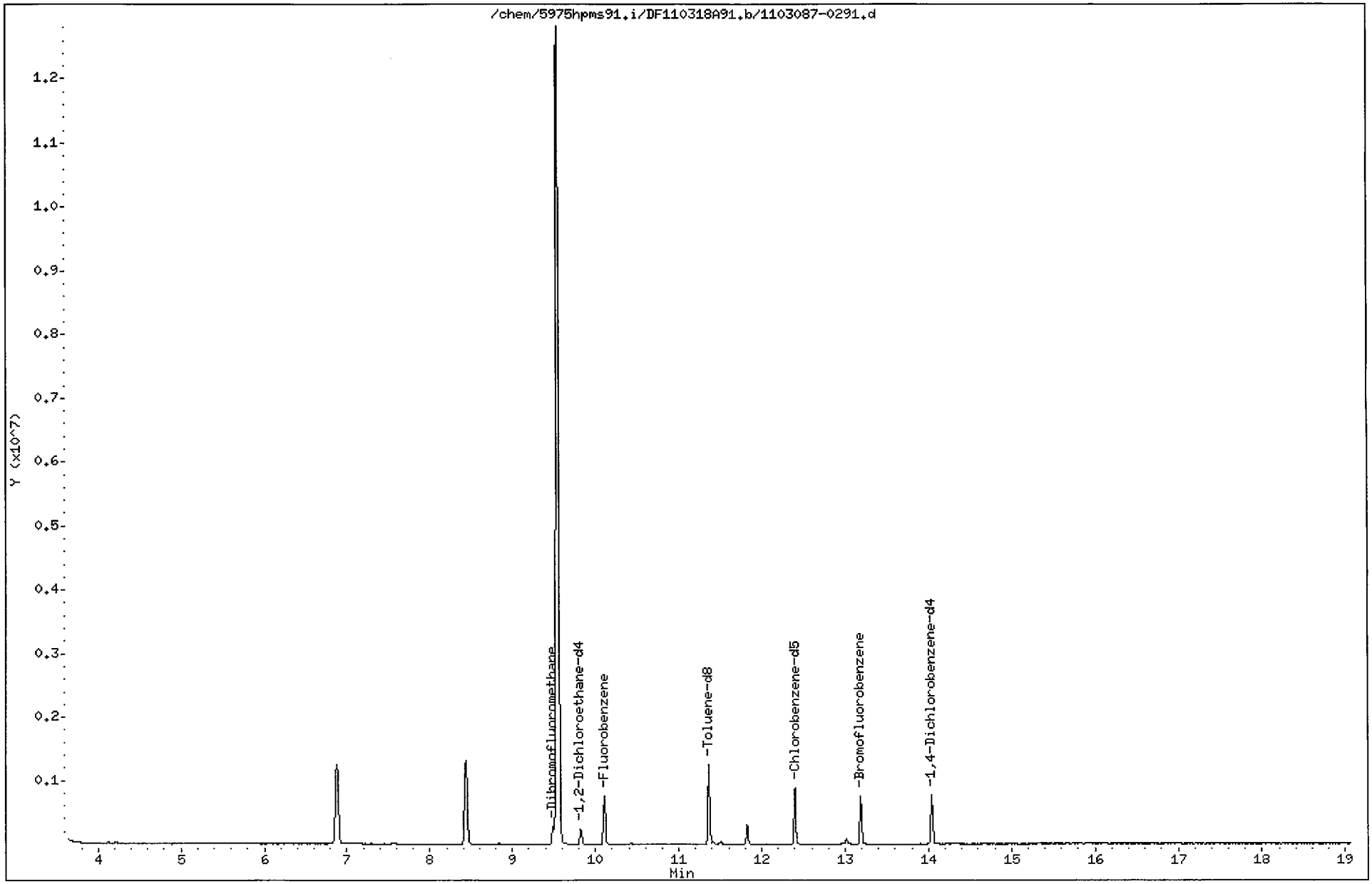
Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Date : 18-MAR-2011 20:55
Client ID: MW-2
Sample Info: 1103087-02:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Lab Smp Id: 1103087-02 Client Smp ID: MW-2
Inj Date : 18-MAR-2011 20:55
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-02:TD
Misc Info : MW-2
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	607435	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	425774	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	201666	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	164377	130.050	5.2
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	167793	125.775	5.0
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	714141	130.363	5.2
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.940)	249384	122.118	4.9
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	6.880	6.874	(0.680)	591299	967.027	39
18 Acetone	43	Compound Not Detected.					

JMH 3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.569	7.563	(0.749)	9388	4.87048	0.19(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	1420809	523.278	21
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	9499992	3603.26	140(A)
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	10.428	10.428	(1.031)	8545	5.47696	0.22(a)
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.824	11.824	(0.953)	58324	33.6893	1.3
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

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: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

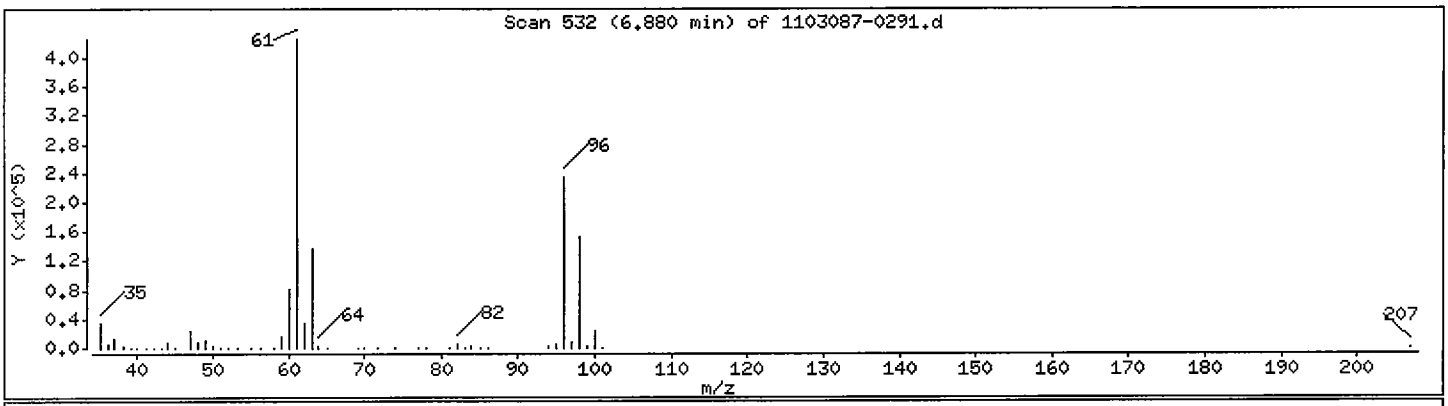
Client ID: MW-2 Instrument: 5975hpms91.i

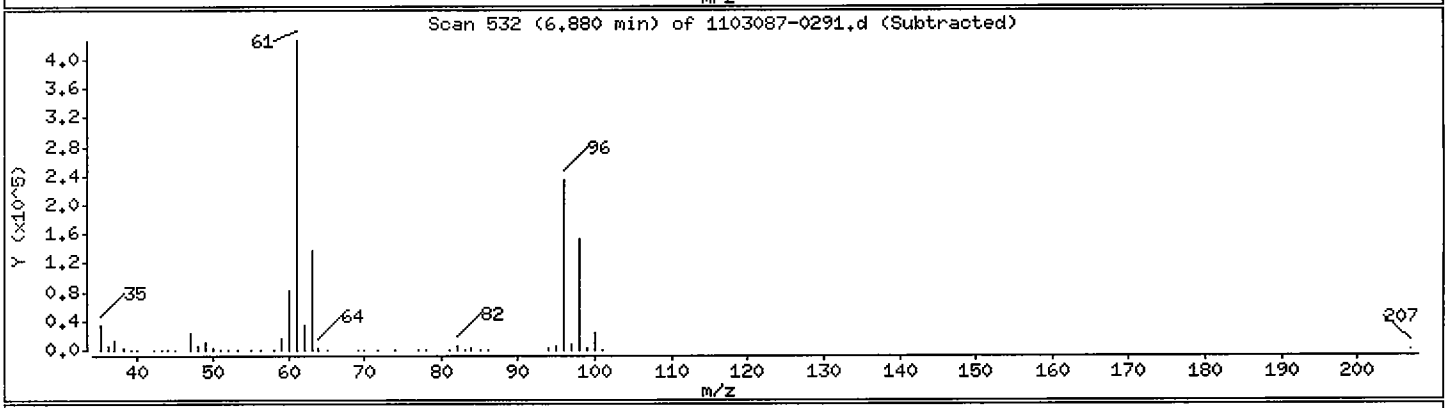
Sample Info: 1103087-02:TD

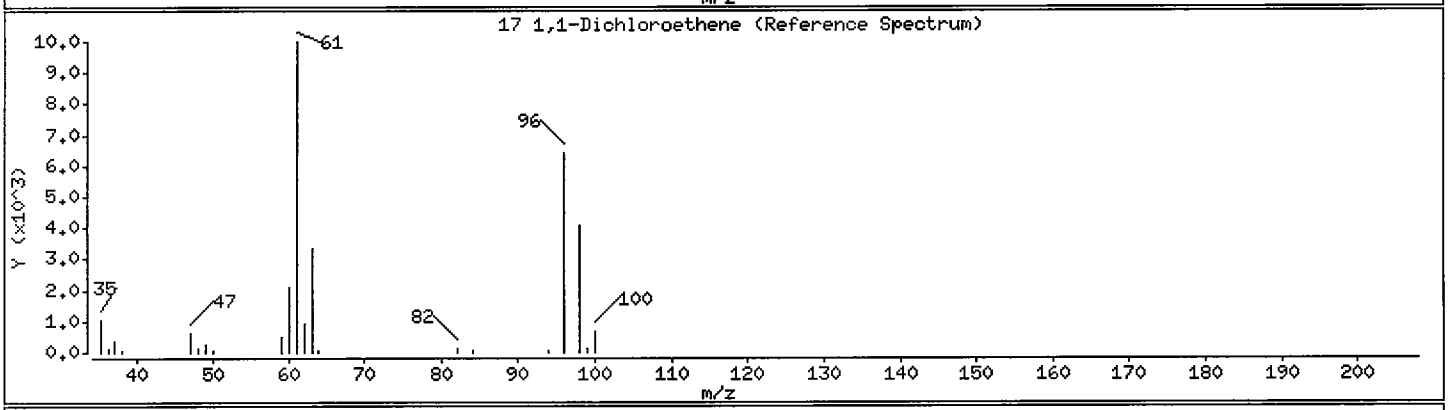
Purge Volume: 25.0 Operator: TD

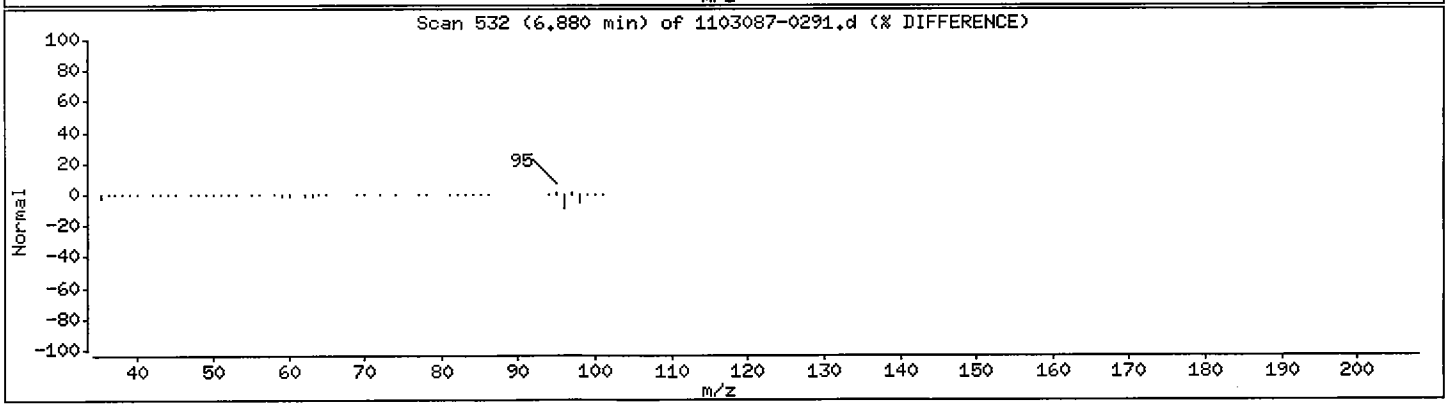
Column phase: SPB-624 Column diameter: 0.32

17 1,1-Dichloroethene Concentration: 39 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

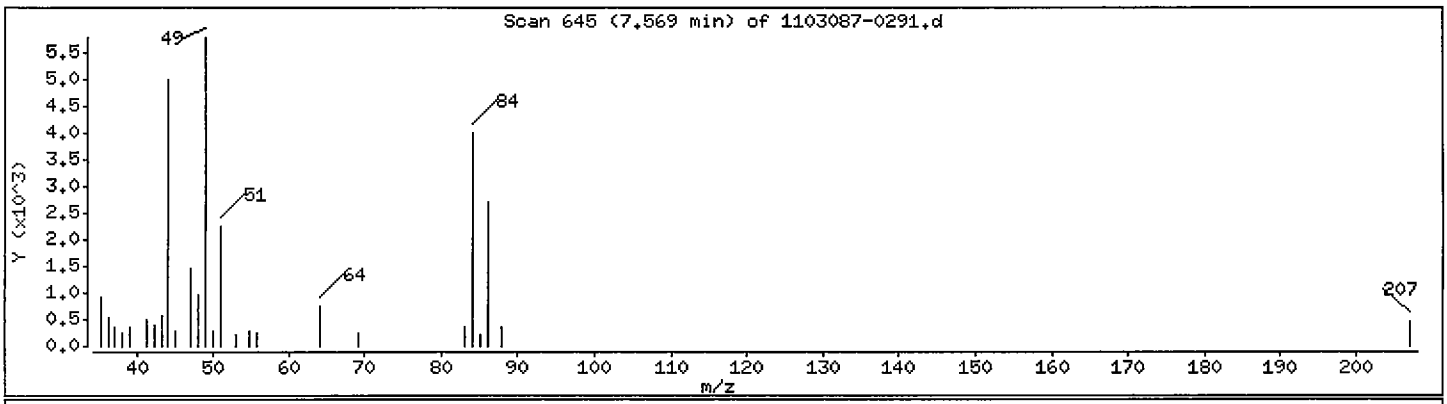
Client ID: MW-2 Instrument: 5975hpms91.i

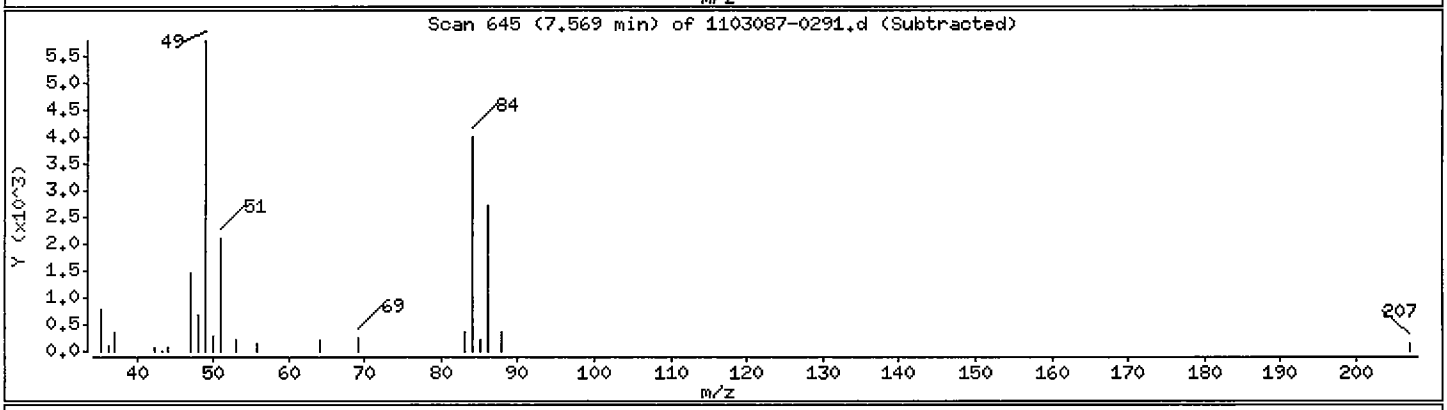
Sample Info: 1103087-02:TD

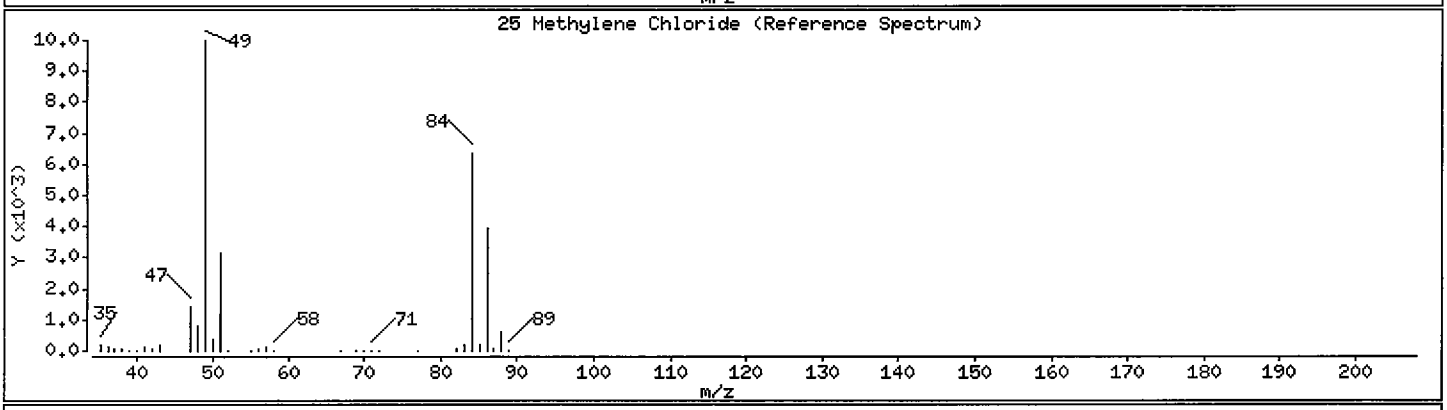
Purge Volume: 25.0 Operator: TD

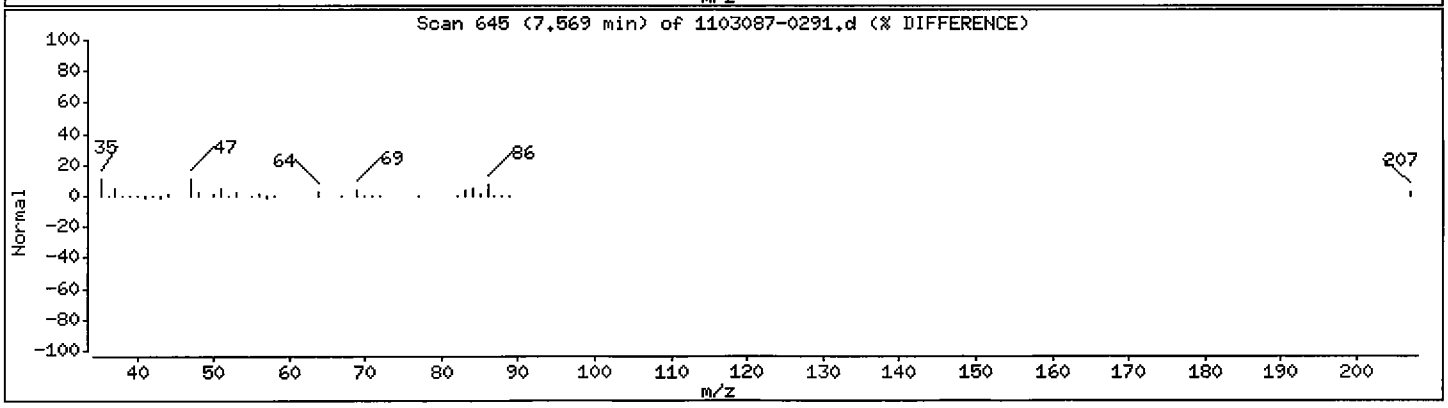
Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.19 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

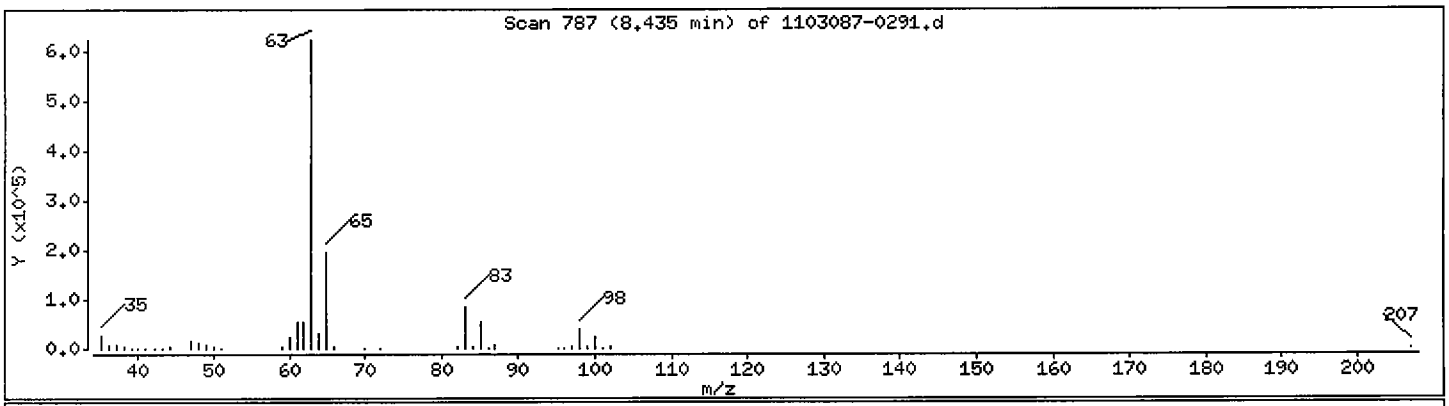
Client ID: MW-2 Instrument: 5975hpms91.i

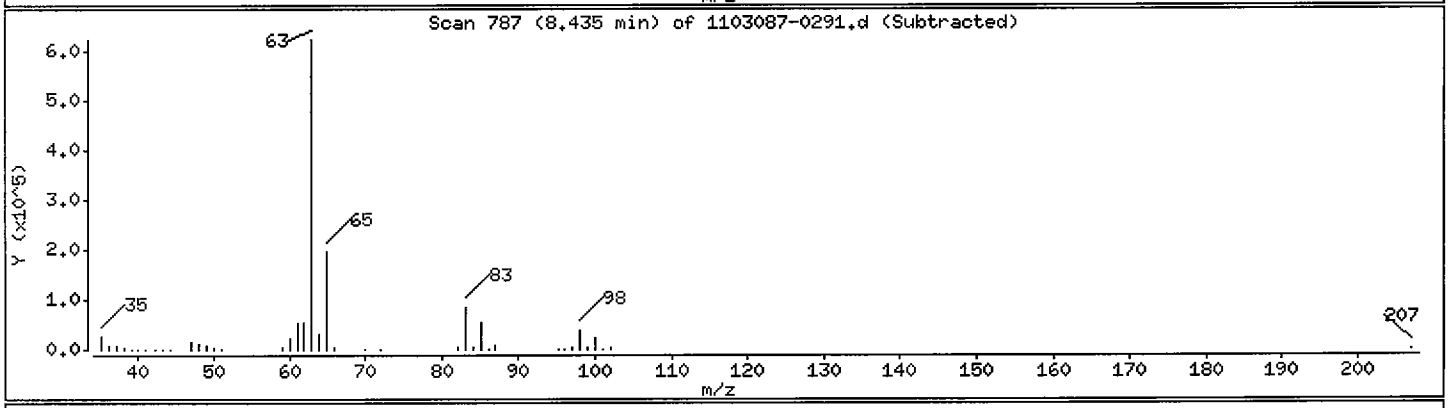
Sample Info: 1103087-02:TD

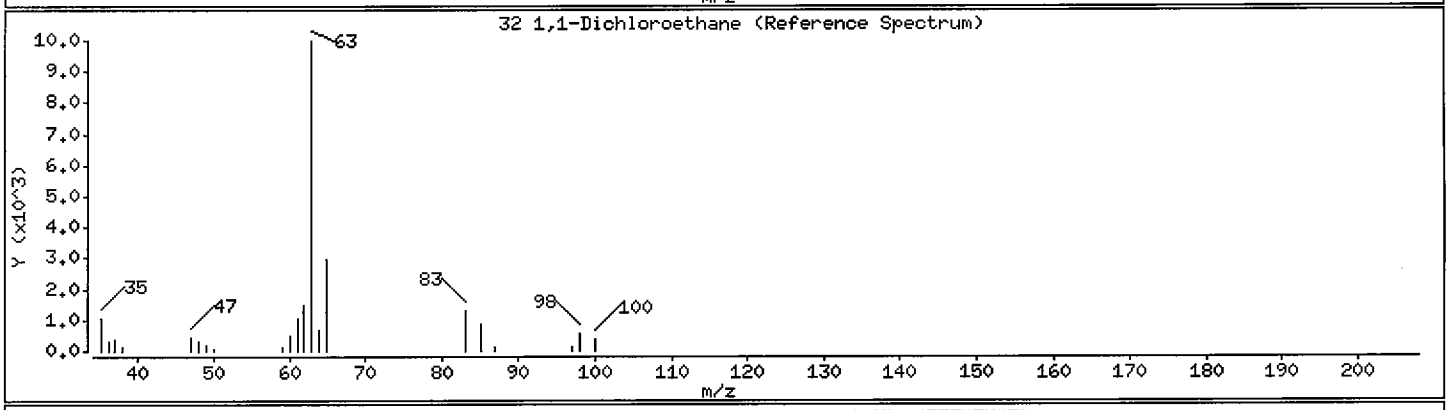
Purge Volume: 25.0 Operator: TD

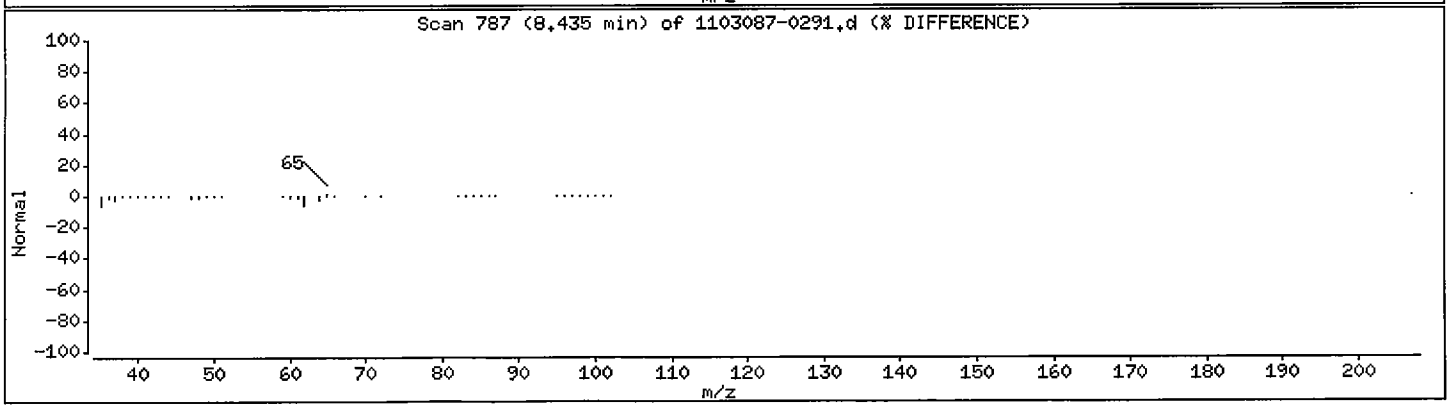
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 21 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

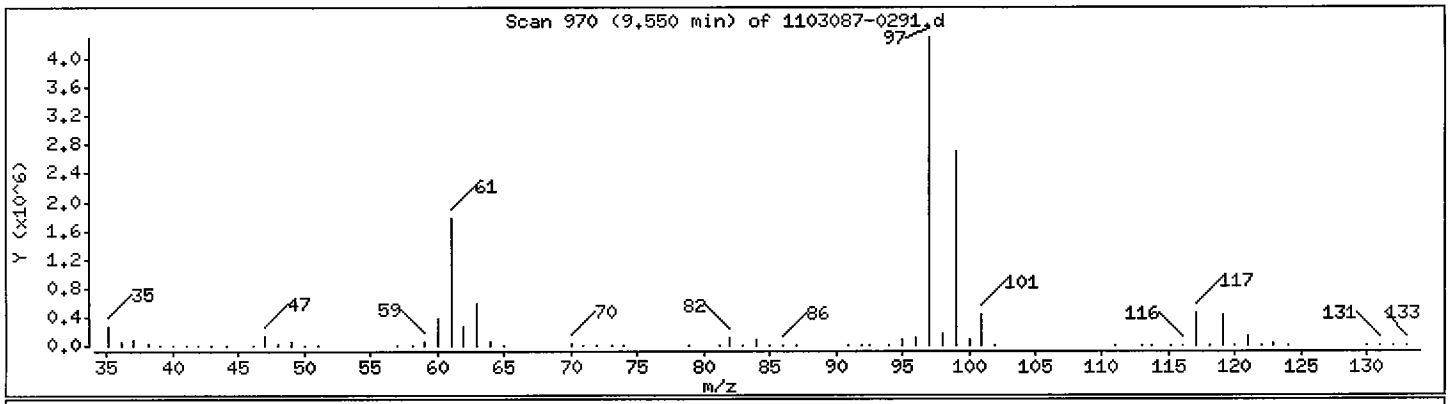
Client ID: MW-2 Instrument: 5975hpms91.i

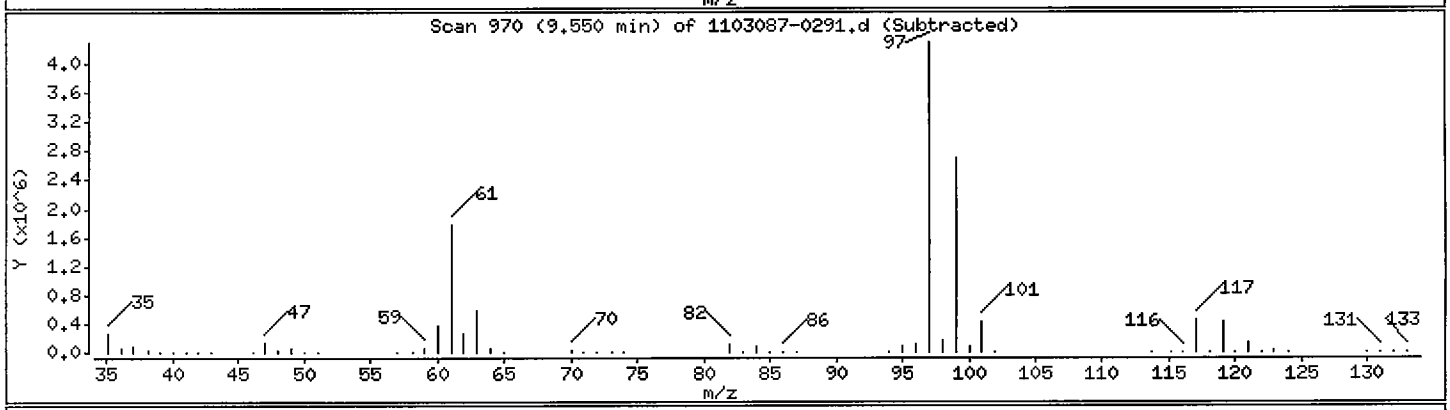
Sample Info: 1103087-02:TD

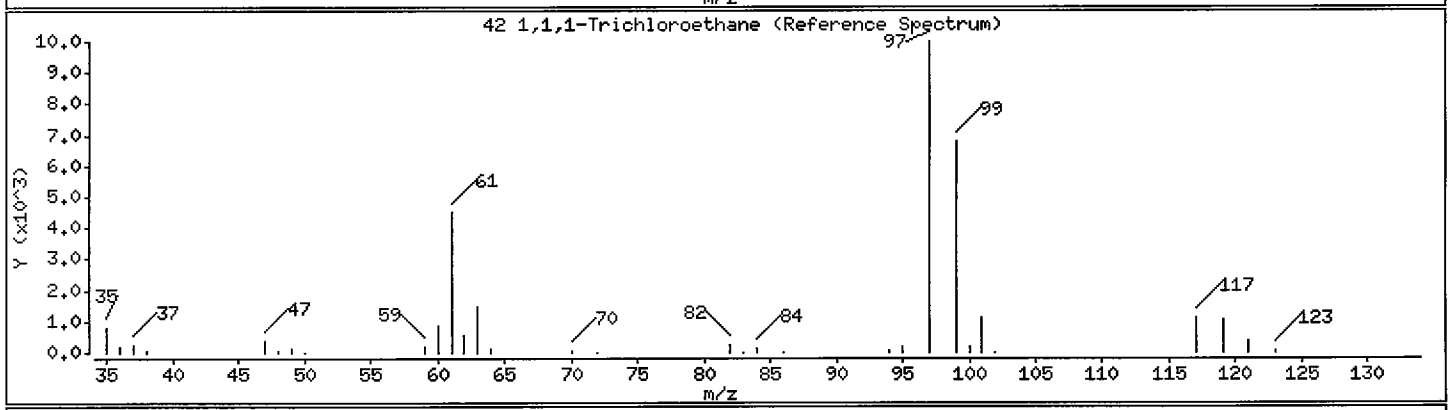
Purge Volume: 25.0 Operator: TD

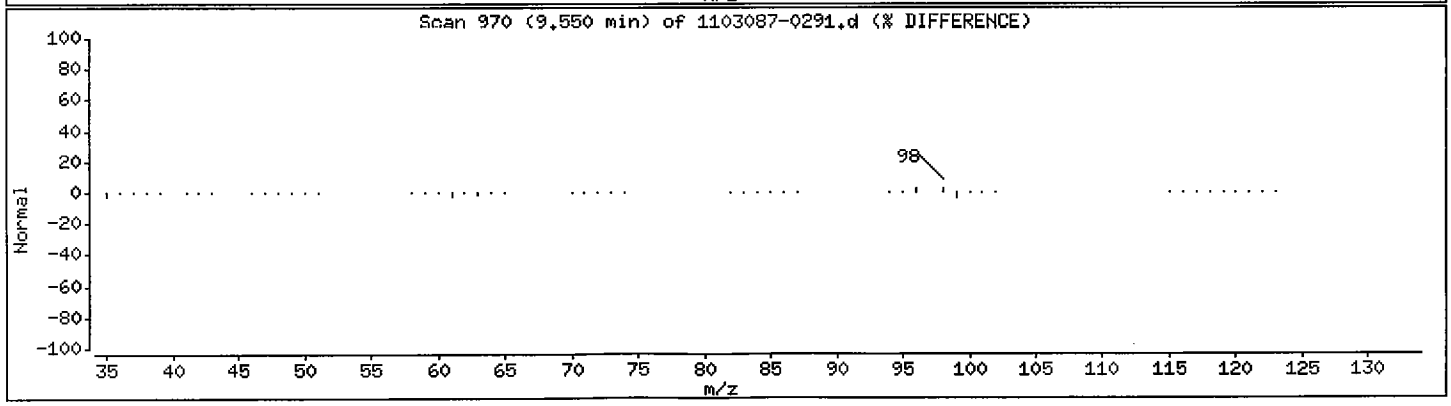
Column phase: SPB-624 Column diameter: 0.32

42 1,1,1-Trichloroethane Concentration: 140 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

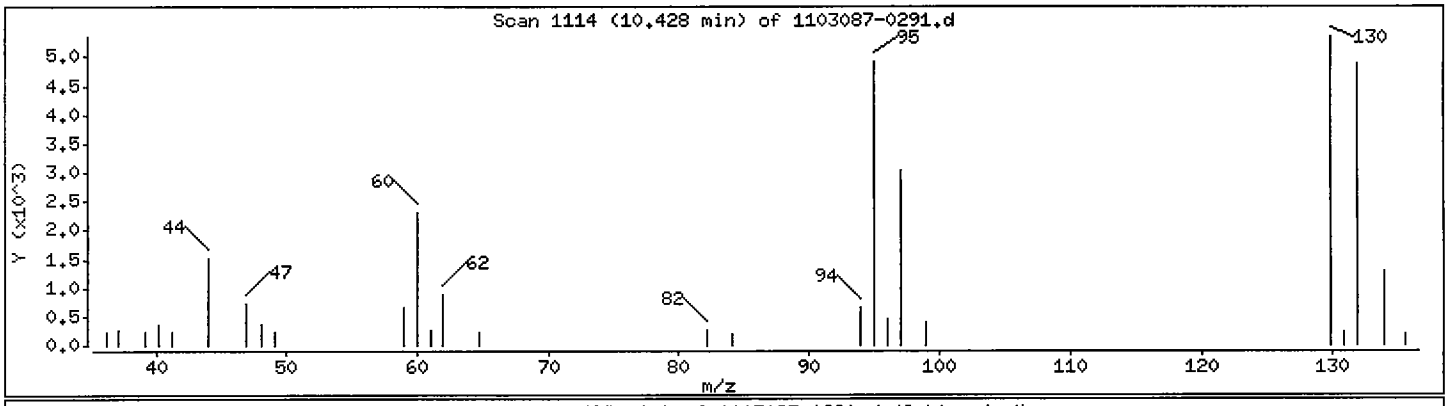
Client ID: MW-2 Instrument: 5975hpms91.i

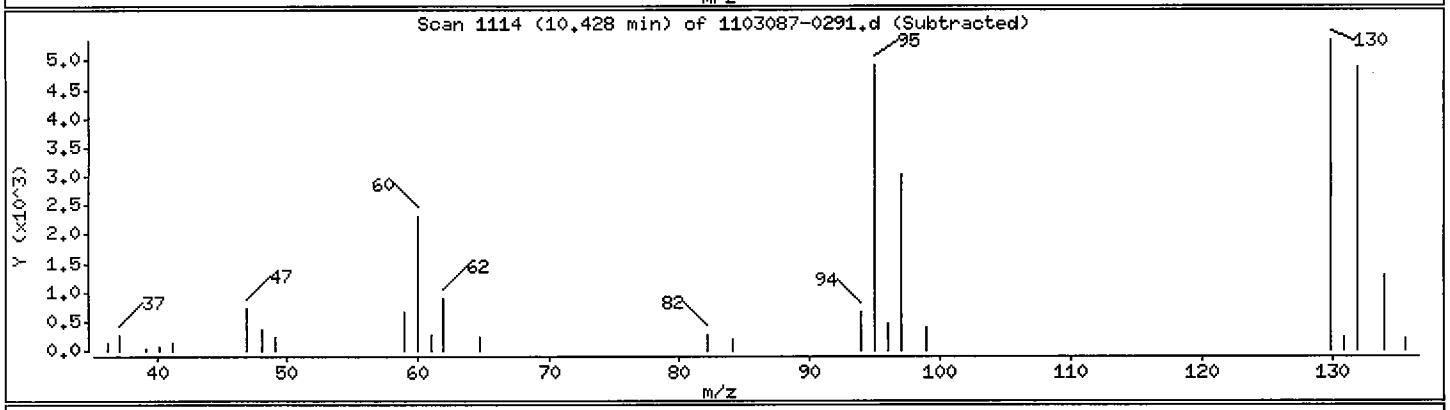
Sample Info: 1103087-02:TD

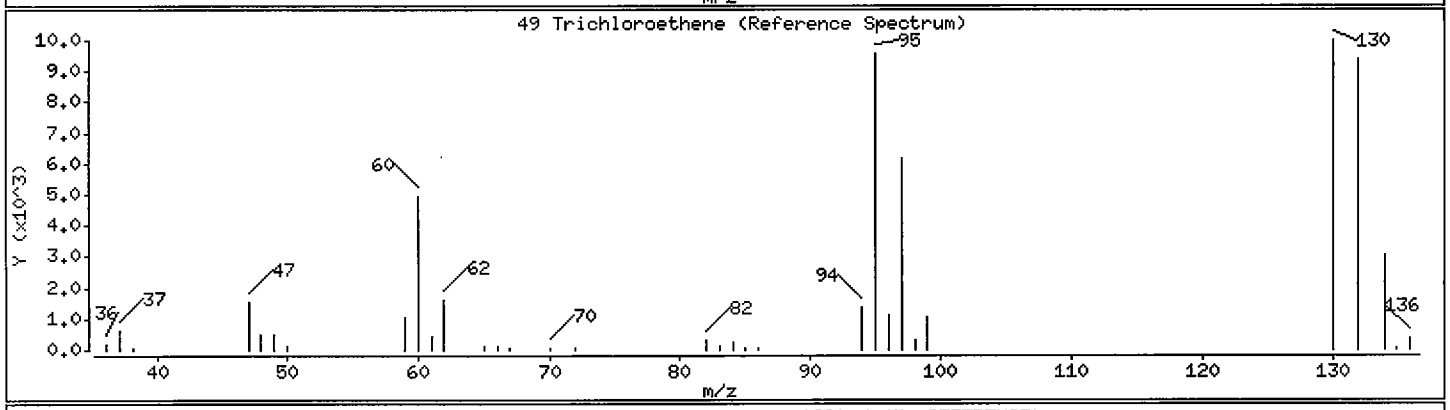
Purge Volume: 25.0 Operator: TD

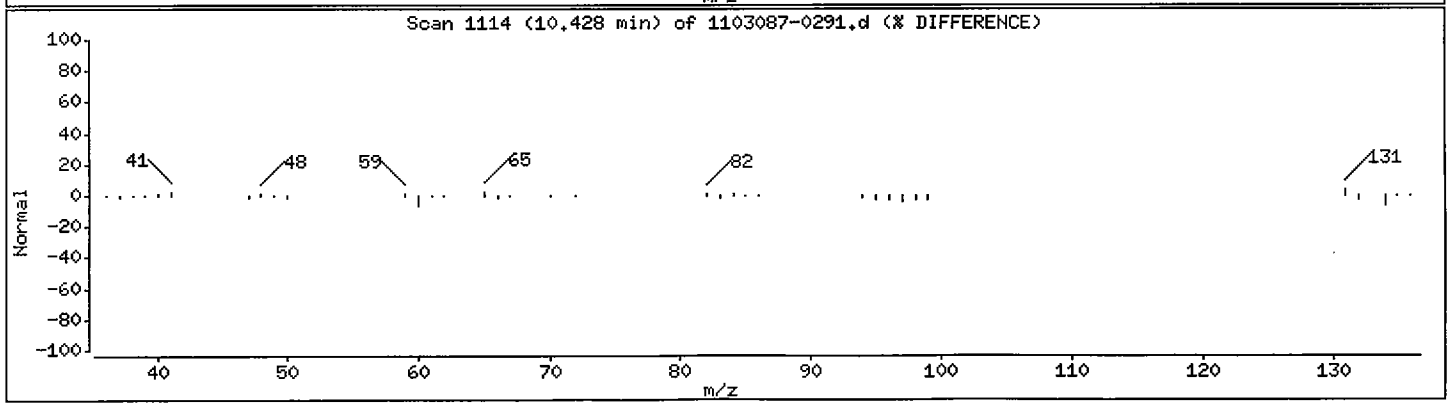
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 0.22 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d

Date : 18-MAR-2011 20:55

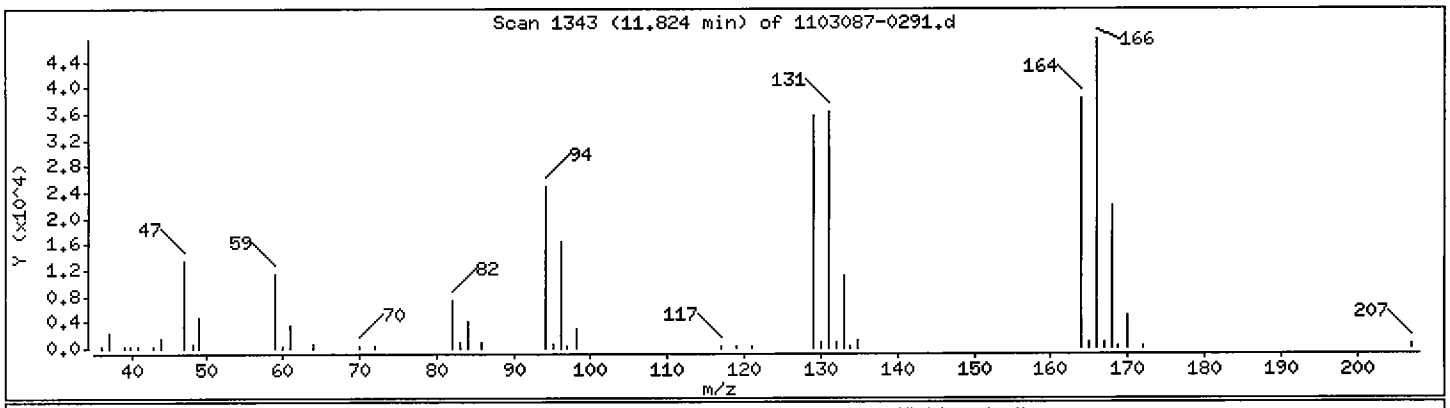
Client ID: MW-2 | Instrument: 5975hpms91.i

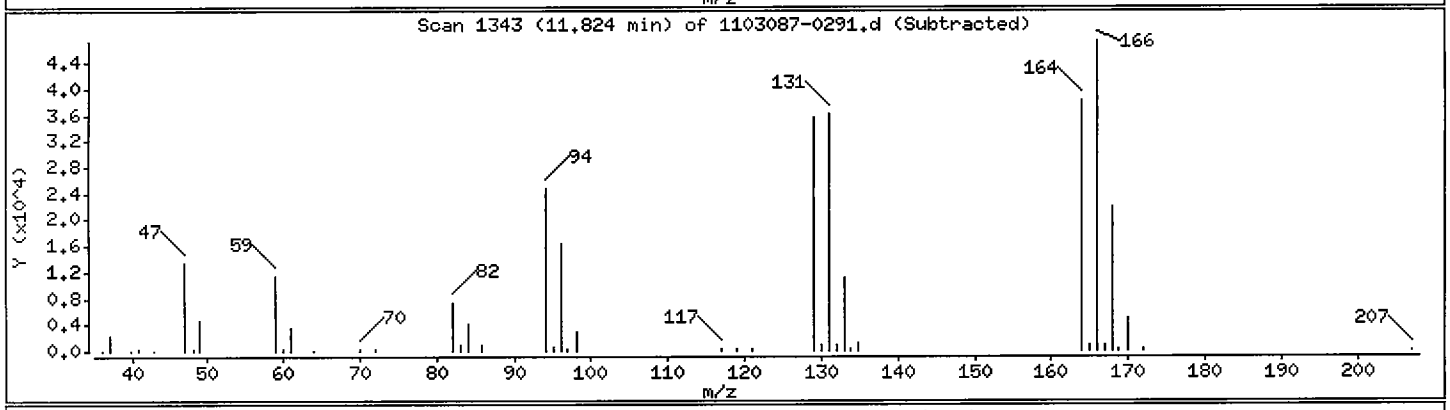
Sample Info: 1103087-02:TD

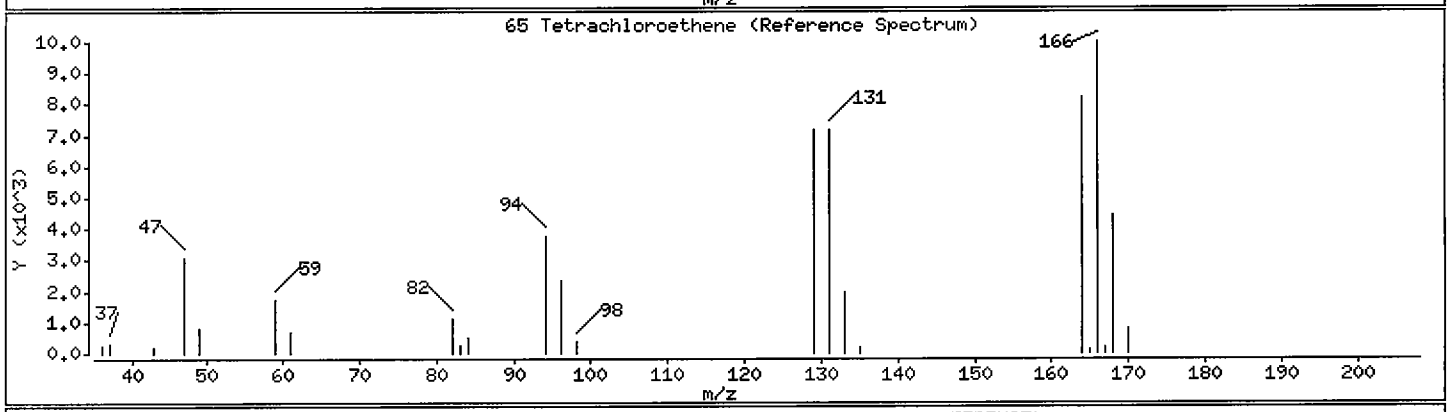
Purge Volume: 25.0 | Operator: TD

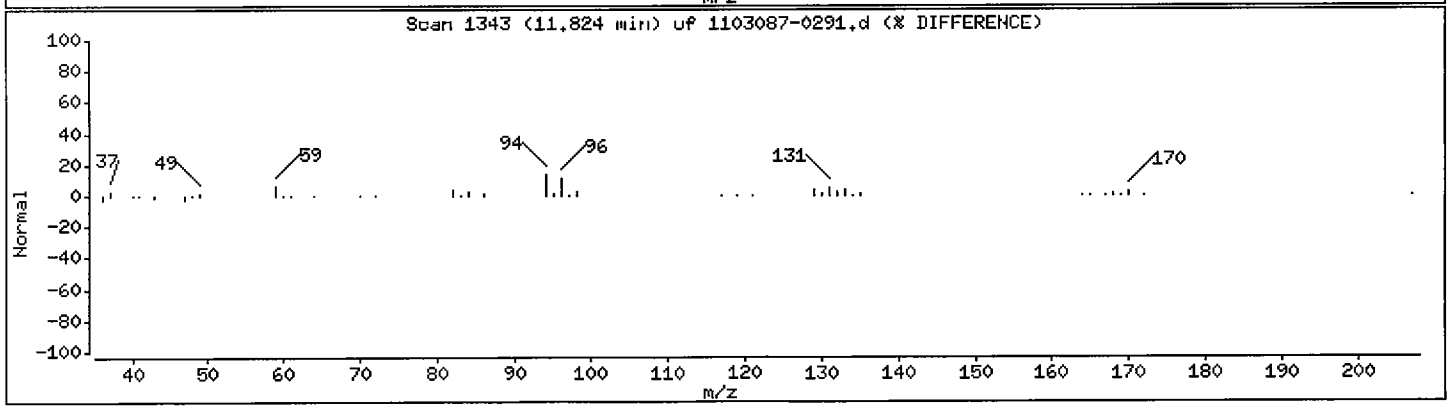
Column phase: SPB-624 | Column diameter: 0.32

65 Tetrachloroethene | Concentration: 1.3 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0291.d
Lab Smp Id: 1103087-02 Client Smp ID: MW-2
Inj Date : 18-MAR-2011 20:55
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-02:TD
Misc Info : MW-2
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

ANALYSIS DATA SHEET

SW 8260B

MW-2DL

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-02D91.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02RE1 | Received: 03/18/11 09:30

Dilution: 6.25 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:48

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.19	3.1	U
74-87-3	Chloromethane		0.69	3.1	U
75-01-4	Vinyl chloride		0.44	3.1	U
74-83-9	Bromomethane		0.69	3.1	U
75-00-3	Chloroethane		1.3	3.1	U
75-69-4	Trichlorofluoromethane		0.38	3.1	U
107-02-8	Acrolein		6.4	31	U
75-35-4	1,1-Dichloroethene	41	0.25	3.1	D
67-64-1	Acetone		2.8	16	U
74-88-4	Iodomethane		0.19	3.1	U
75-15-0	Carbon disulfide		0.13	3.1	U
107-05-1	3-Chloropropene		0.31	3.1	U
75-05-8	Acetonitrile		0.19	3.1	U
75-09-2	Methylene chloride		0.13	3.1	U
107-13-1	Acrylonitrile		2.3	31	U
156-60-5	trans-1,2-Dichloroethene		0.31	3.1	U
75-34-3	1,1-Dichloroethane	21	0.13	3.1	D
126-99-8	Chloroprene		0.13	3.1	U
108-05-4	Vinyl acetate		0.38	6.3	U
156-59-2	cis-1,2-Dichloroethene		0.19	3.1	U
594-20-7	2,2-Dichloropropane		0.19	3.1	U
107-12-0	Propionitrile		8.8	160	U
78-93-3	2-Butanone		1.8	16	U
126-98-7	Methacrylonitrile		2.4	31	U
74-97-5	Bromochloromethane		0.25	3.1	U
67-66-3	Chloroform		0.19	3.1	U
71-55-6	1,1,1-Trichloroethane	160	0.13	3.1	D
563-58-6	1,1-Dichloropropene		0.19	3.1	U
56-23-5	Carbon tetrachloride		0.19	3.1	U
107-06-2	1,2-Dichloroethane		0.19	3.1	U
78-83-1	Isobutyl alcohol		37	160	U
71-43-2	Benzene		0.19	3.1	U
79-01-6	Trichloroethene		0.19	3.1	U
78-87-5	1,2-Dichloropropane		0.75	3.1	U
74-95-3	Dibromomethane		0.19	3.1	U
80-62-6	Methyl Methacrylate		3.5	31	U
75-27-4	Bromodichloromethane		0.19	3.1	U
10061-01-5	cis-1,3-Dichloropropene		0.25	3.1	U
108-10-1	4-Methyl-2-pentanone		2.6	16	U

ANALYSIS DATA SHEET

SW 8260B

MW-2DL

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-02D91.d | Sampled: 03/16/11 15:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-02RE1 | Received: 03/18/11 09:30

Dilution: 6.25 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:48

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.19	3.1	U
10061-02-6	trans-1,3-Dichloropropene		0.31	3.1	U
79-00-5	1,1,2-Trichloroethane		0.25	3.1	U
97-63-2	Ethyl Methacrylate		2.6	31	U
142-28-9	1,3-Dichloropropane		0.19	3.1	U
127-18-4	Tetrachloroethene	1.3	0.38	3.1	JD
591-78-6	2-Hexanone		3.2	16	U
124-48-1	Dibromochloromethane		0.25	3.1	U
108-90-7	Chlorobenzene		0.13	3.1	U
630-20-6	1,1,1,2-Tetrachloroethane		0.13	3.1	U
100-41-4	Ethylbenzene		0.25	3.1	U
179601-23-1	m,p-Xylene		0.50	6.3	U
95-47-6	o-Xylene		0.19	3.1	U
100-42-5	Styrene		0.13	3.1	U
75-25-2	Bromoform		0.19	3.1	U
79-34-5	1,1,2,2-Tetrachloroethane		0.31	3.1	U
96-18-4	1,2,3-Trichloropropane		0.56	3.1	U
110-57-6	trans-1,4-Dichloro-2-butene		2.1	13	U
541-73-1	1,3-Dichlorobenzene		0.25	3.1	U
106-46-7	1,4-Dichlorobenzene		0.19	3.1	U
95-50-1	1,2-Dichlorobenzene		0.19	3.1	U
120-82-1	1,2,4-Trichlorobenzene		0.38	3.1	U
87-68-3	Hexachlorobutadiene		0.19	3.1	U
91-20-3	Naphthalene		0.94	3.1	U
1330-20-7	Xylenes (total)		0.19	3.1	U

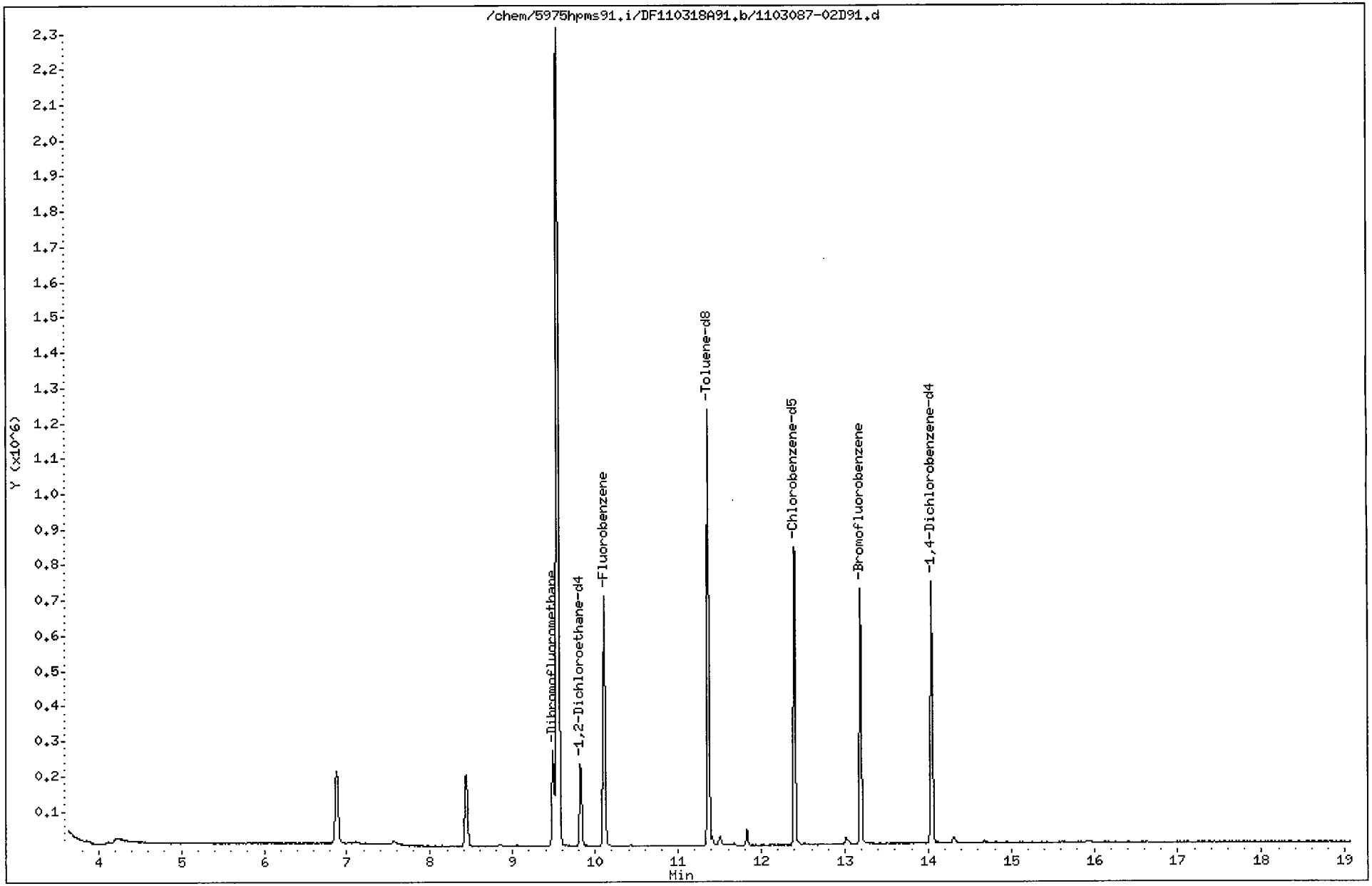
SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.486	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.259	105	59 - 150	
Toluene-d8	5.000	5.268	105	61 - 145	
Bromofluorobenzene	5.000	4.909	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Date : 18-MAR-2011 23:48
Client ID: MW-2DL
Sample Info: 1103087-02RE1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Lab Smp Id: 1103087-02RE1 Client Smp ID: MW-2DL
Inj Date : 18-MAR-2011 23:48
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-02RE1:TD
Misc Info : MW-2DL
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 13
Dil Factor: 6.25000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	6.25000	Dilution Factor
Vo	25.00000	volume of water
DF	6.25000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	571553	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	407661	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.043	14.043	(1.000)	193018	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	163115	137.153	34
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	165051	131.487	33
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	690805	131.706	33
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.939)	239854	122.713	31
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	93292	162.151	41
18 Acetone	43	Compound Not Detected.					

MWB 3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	Compound Not Detected.					
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	217524	85.1427	21
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	1573108	634.123	160
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	Compound Not Detected.					
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.824	11.824	(0.953)	8620	5.20034	1.3(a)
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d

Date : 18-MAR-2011 23:48

Client ID: MW-2DL

Instrument: 5975hpms91.i

Sample Info: 1103087-02RE1:TD

Purge Volume: 25.0

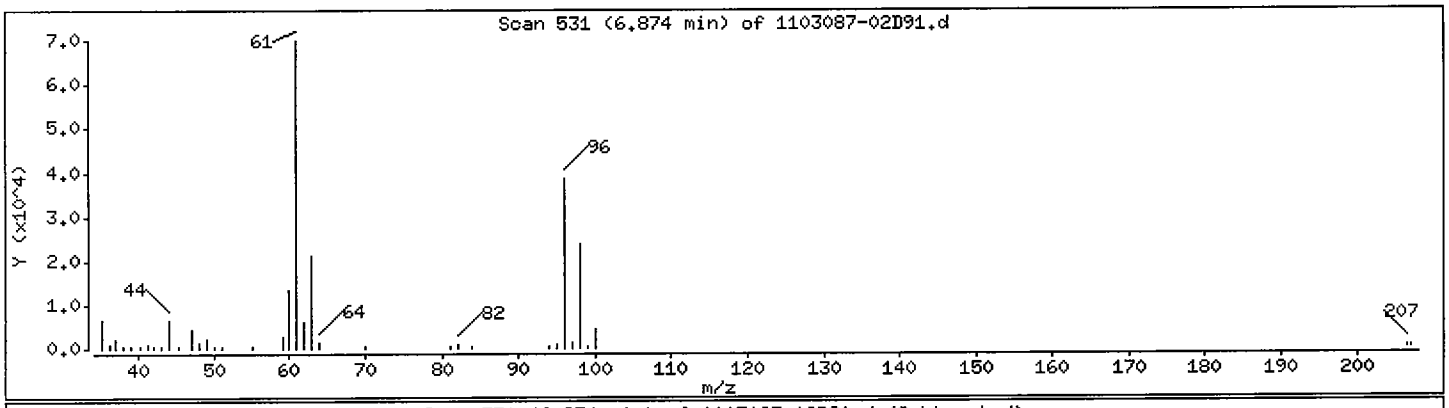
Operator: TD

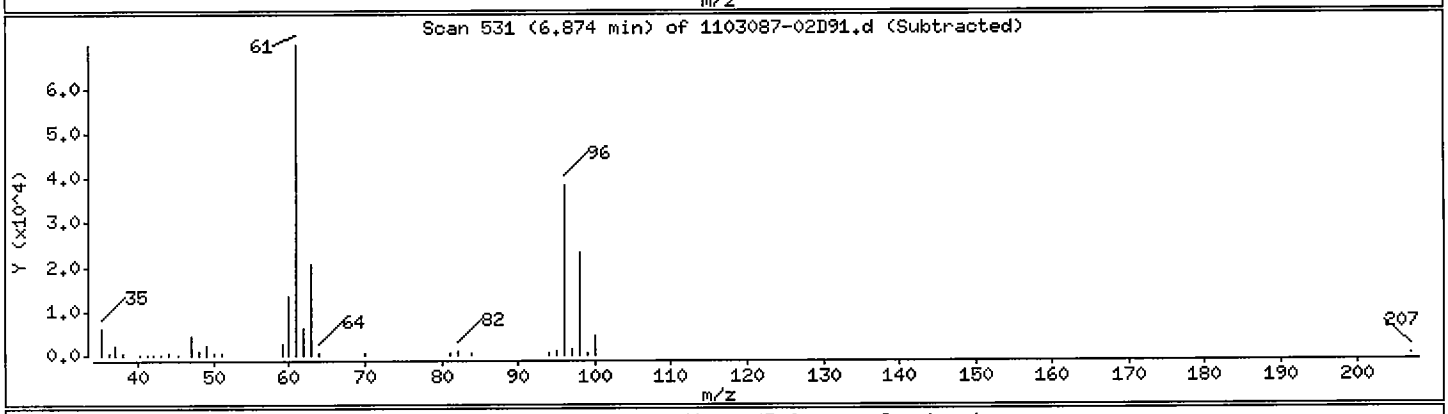
Column phase: SPB-624

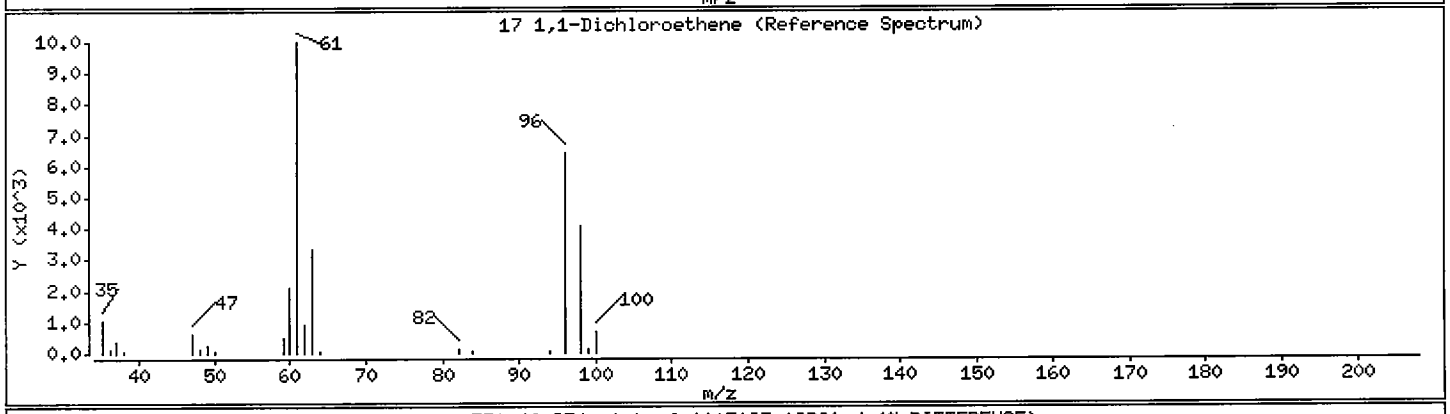
Column diameter: 0.32

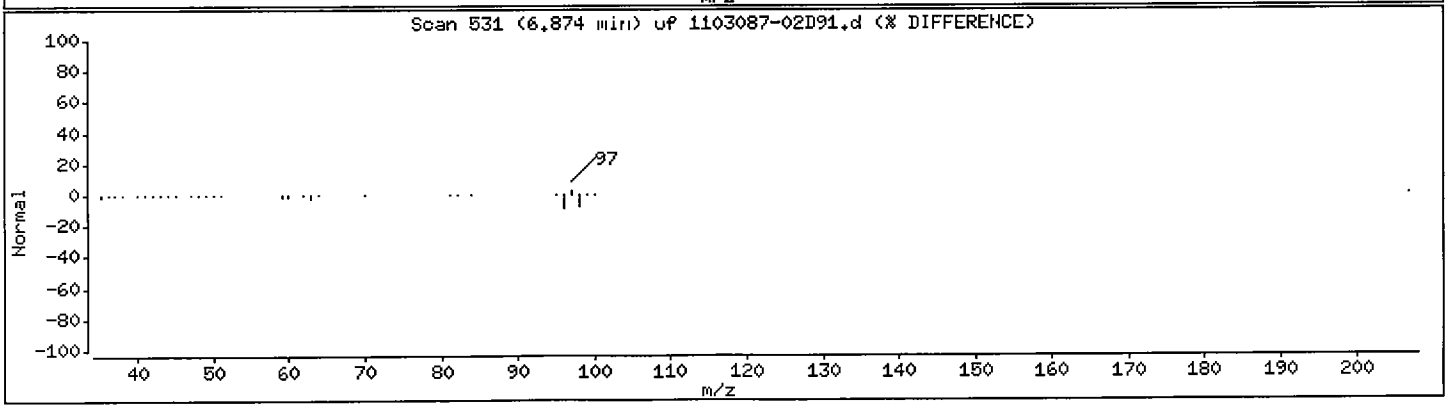
17 1,1-Dichloroethene

Concentration: 41 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d

Date : 18-MAR-2011 23:48

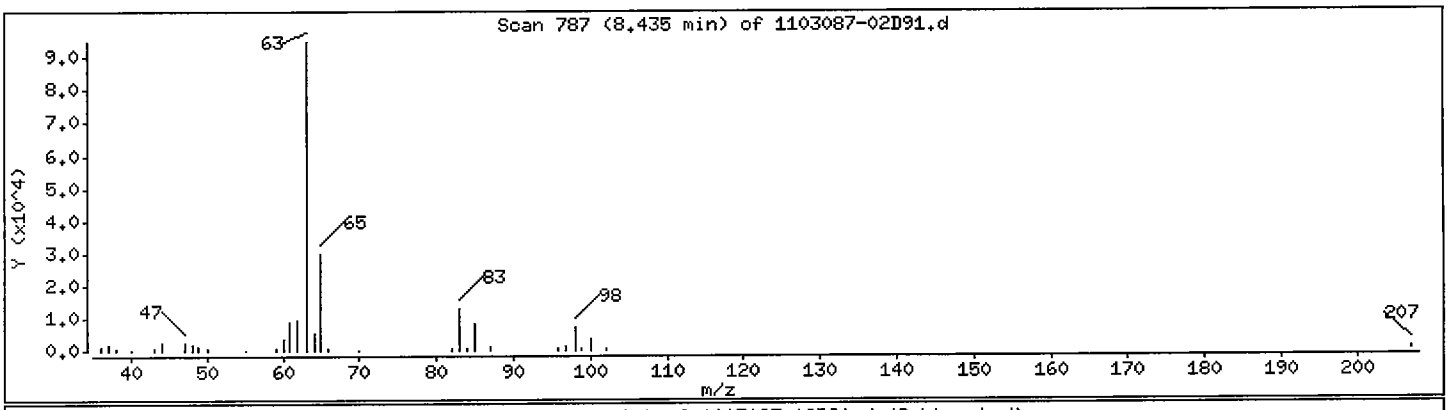
Client ID: MW-2DL | Instrument: 5975hpms91.i

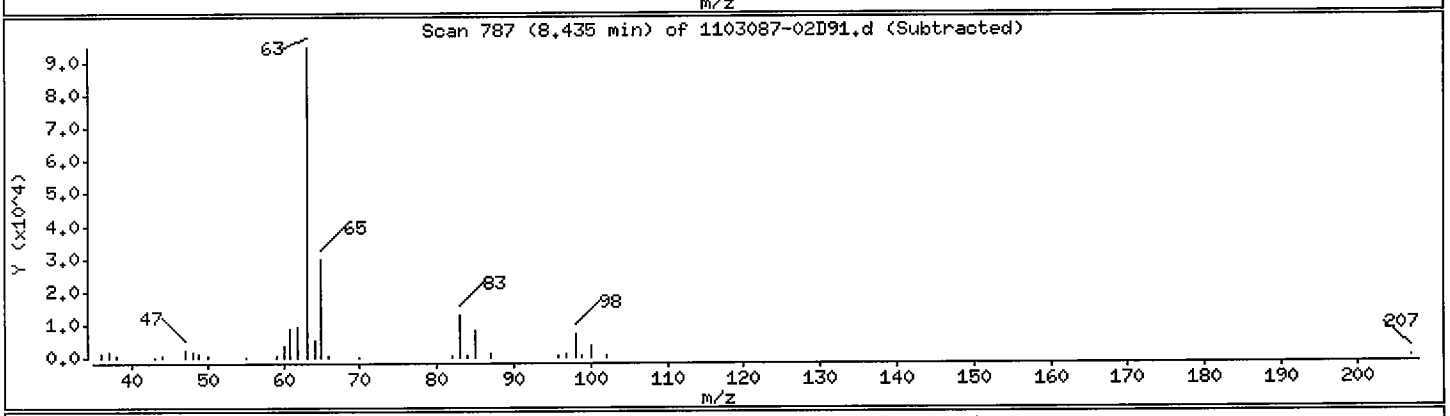
Sample Info: 1103087-02RE1:TD

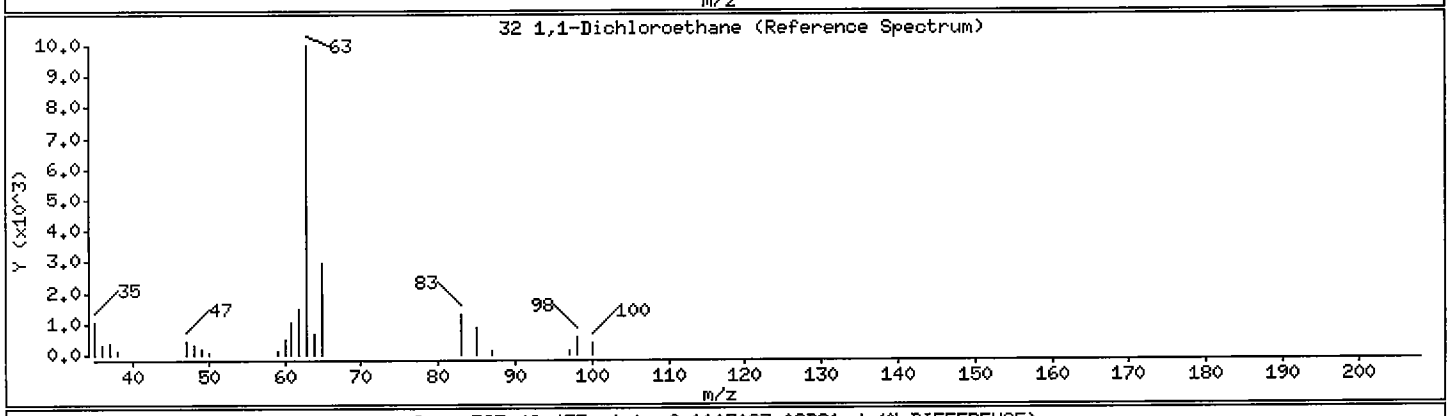
Purge Volume: 25.0 | Operator: TD

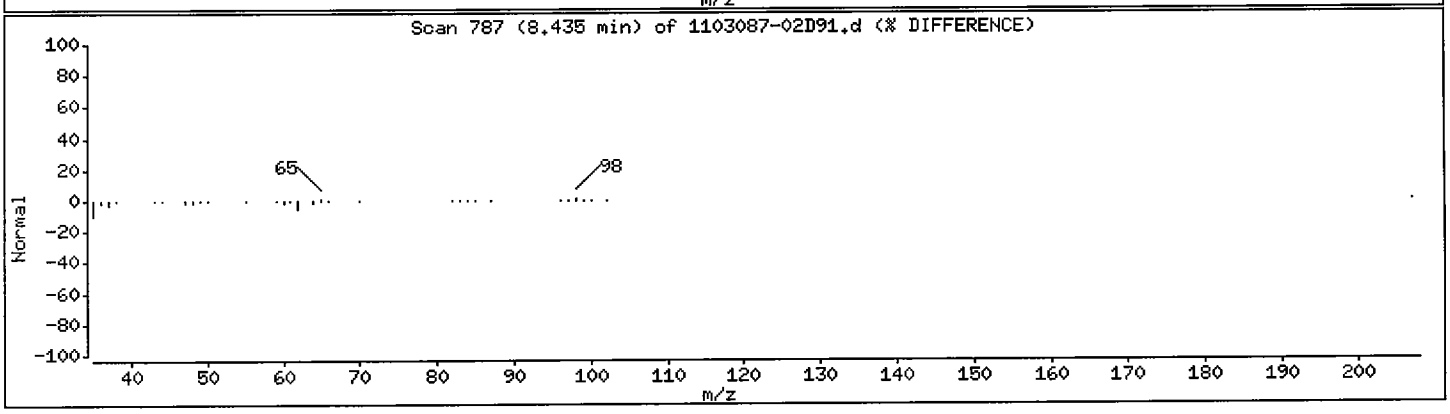
Column phase: SPB-624 | Column diameter: 0.32

32 1,1-Dichloroethane | Concentration: 21 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d

Date : 18-MAR-2011 23:48

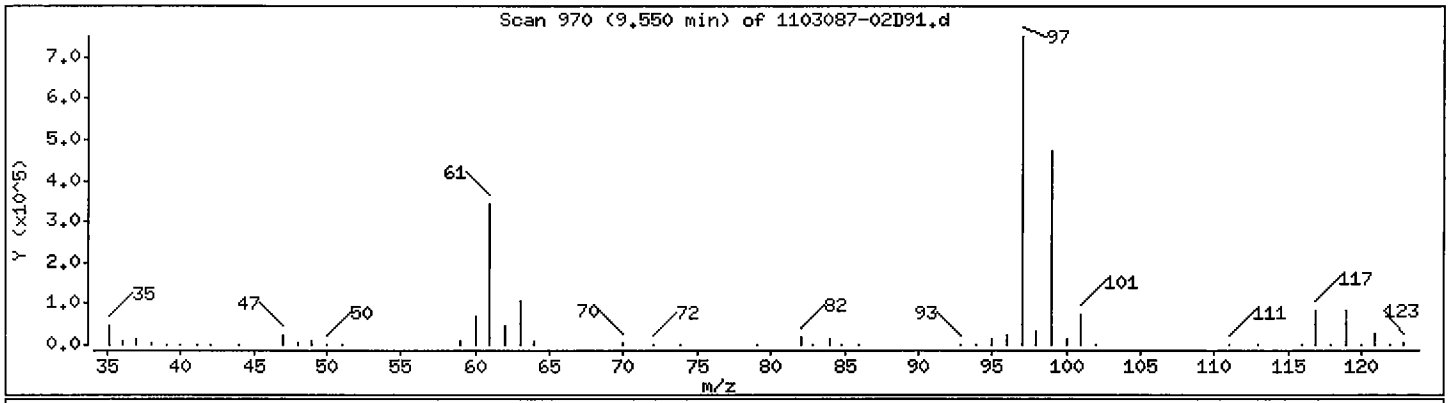
Client ID: MW-2DL | Instrument: 5975hpms91.i

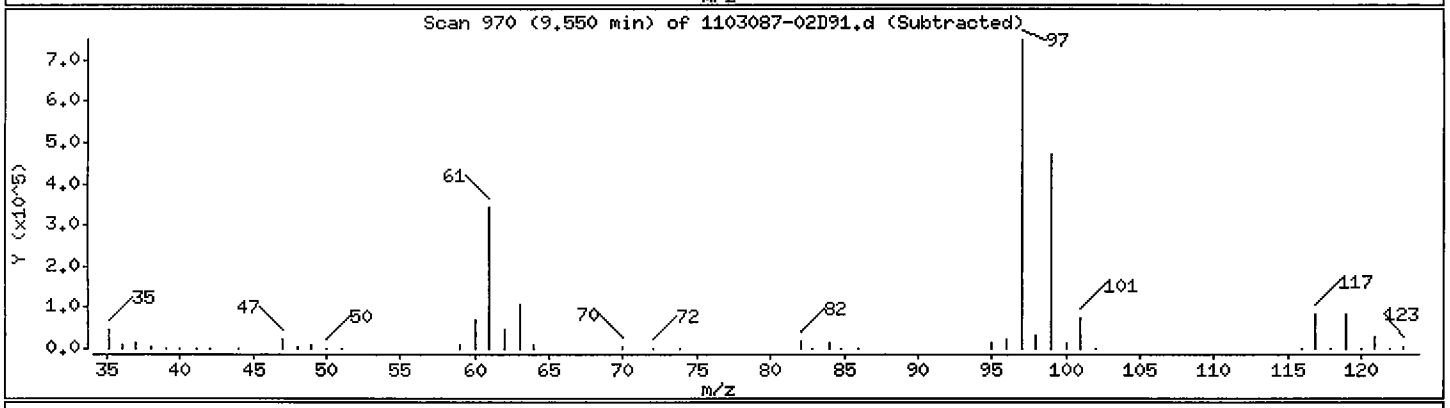
Sample Info: 1103087-02RE1:TD

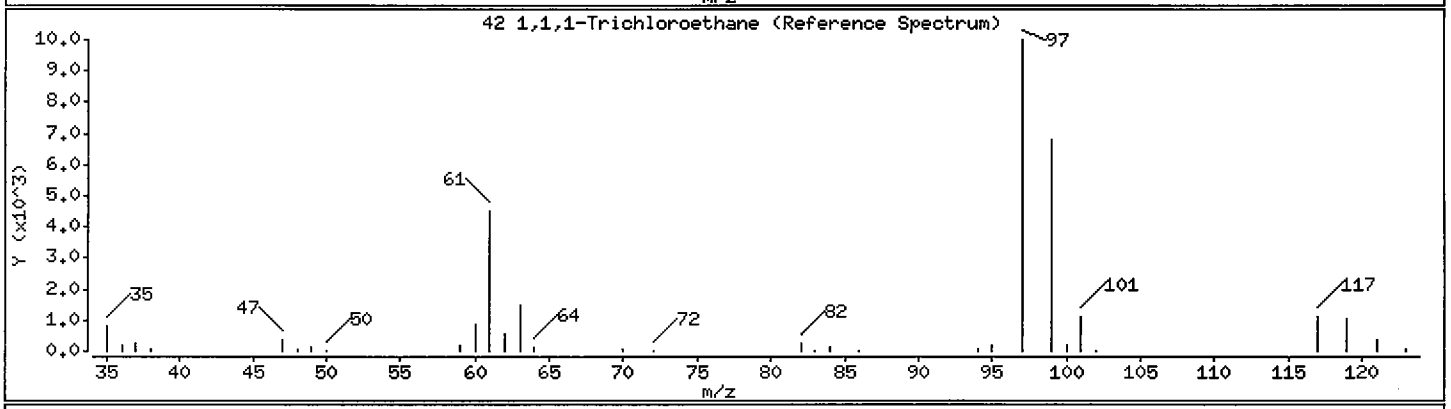
Purge Volume: 25.0 | Operator: TD

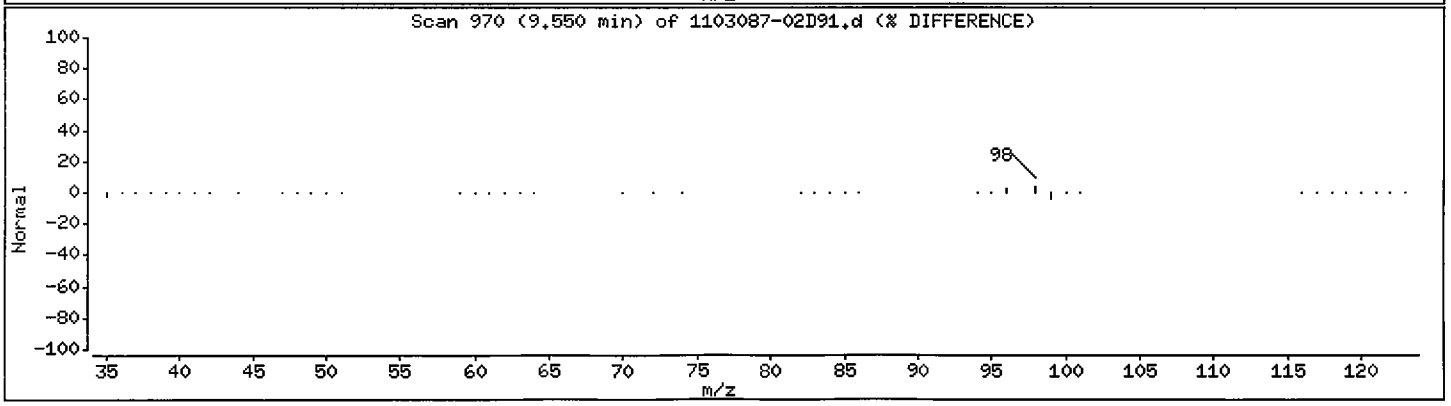
Column phase: SPB-624 | Column diameter: 0.32

42 1,1,1-Trichloroethane | Concentration: 160 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d

Date : 18-MAR-2011 23:48

Client ID: MW-2DL

Instrument: 5975hpms91.i

Sample Info: 1103087-02RE1:TD

Purge Volume: 25.0

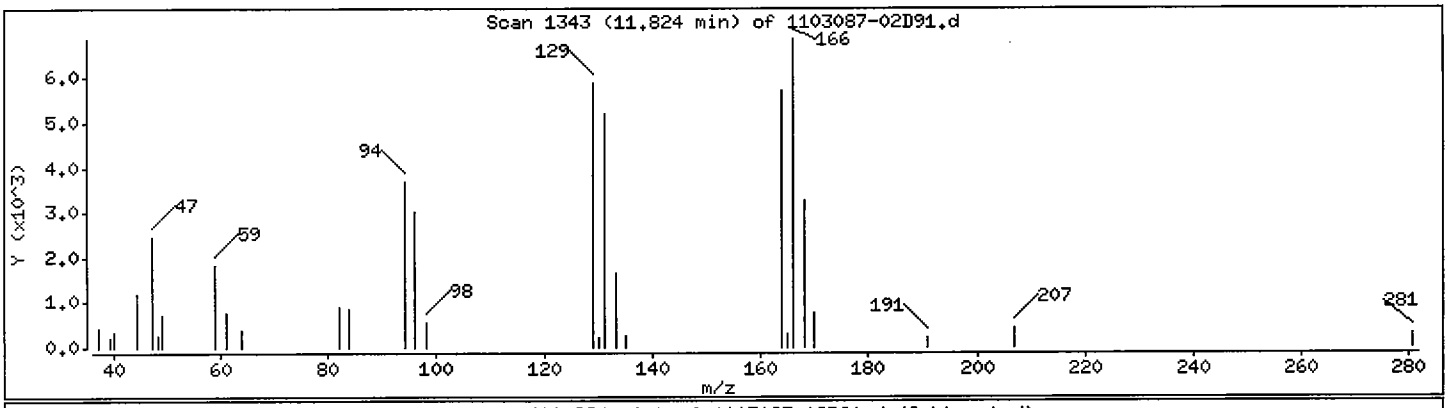
Operator: TD

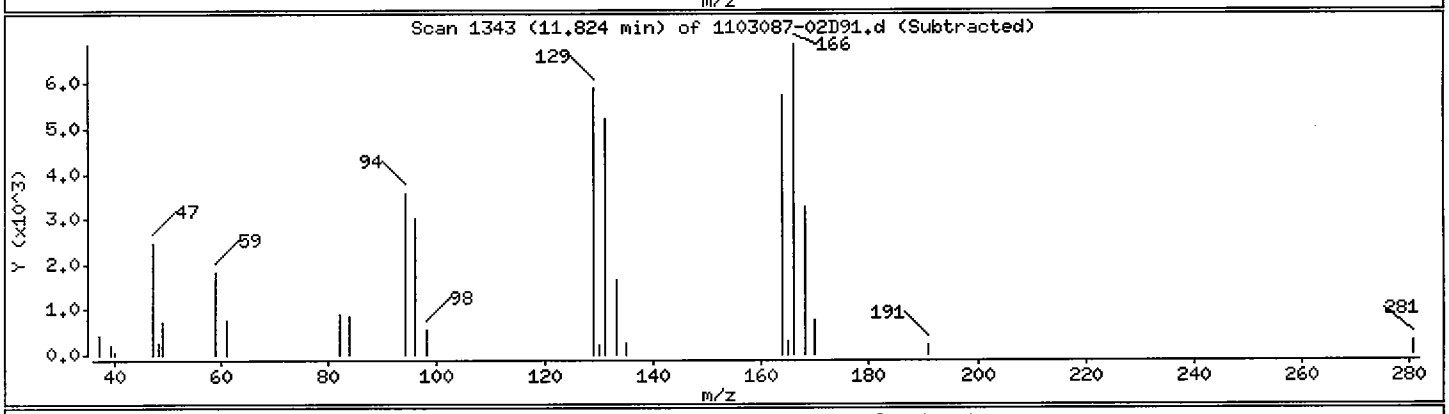
Column phase: SPB-624

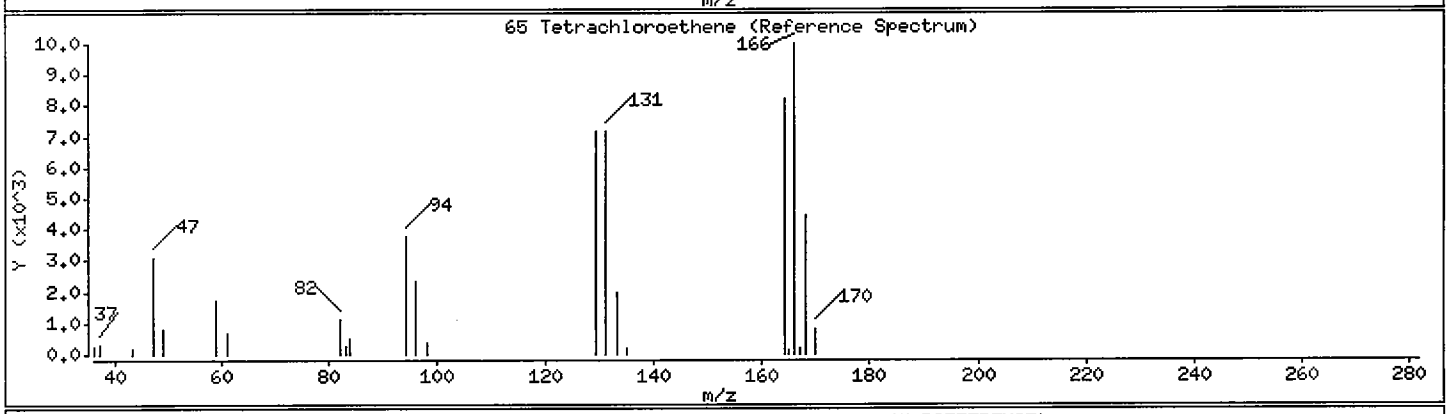
Column diameter: 0.32

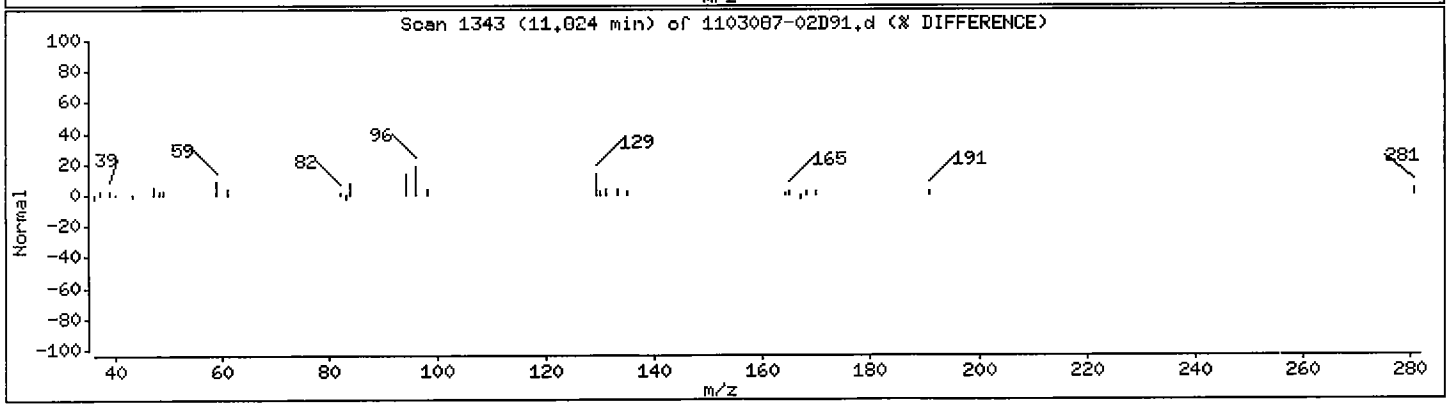
65 Tetrachloroethene

Concentration: 1.3 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-02D91.d
Lab Smp Id: 1103087-02RE1 Client Smp ID: MW-2DL
Inj Date : 18-MAR-2011 23:48
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-02RE1:TD
Misc Info : MW-2DL
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 13
Dil Factor: 6.25000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

ANALYSIS DATA SHEET

SW 8260B

MW-3

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0191.d | Sampled: 03/17/11 11:45

Initial/Final: 25mL / 25mL | Lab ID: 1103087-01 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:26

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	1.9	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.11	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.26	0.050	0.50	J
75-34-3	1,1-Dichloroethane	7.5	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	17	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform	0.18	0.030	0.50	J
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	2.1	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.21	0.12	0.50	J
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-3

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0191.d | Sampled: 03/17/11 11:45

Initial/Final: 25mL / 25mL | Lab ID: 1103087-01 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 20:26

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.19	0.060	0.50	J
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	4.875	97	65 - 150	
1,2-Dichloroethane-d4	5.000	4.383	88	59 - 150	
Toluene-d8	5.000	5.550	111	61 - 145	
Bromofluorobenzene	5.000	5.134	103	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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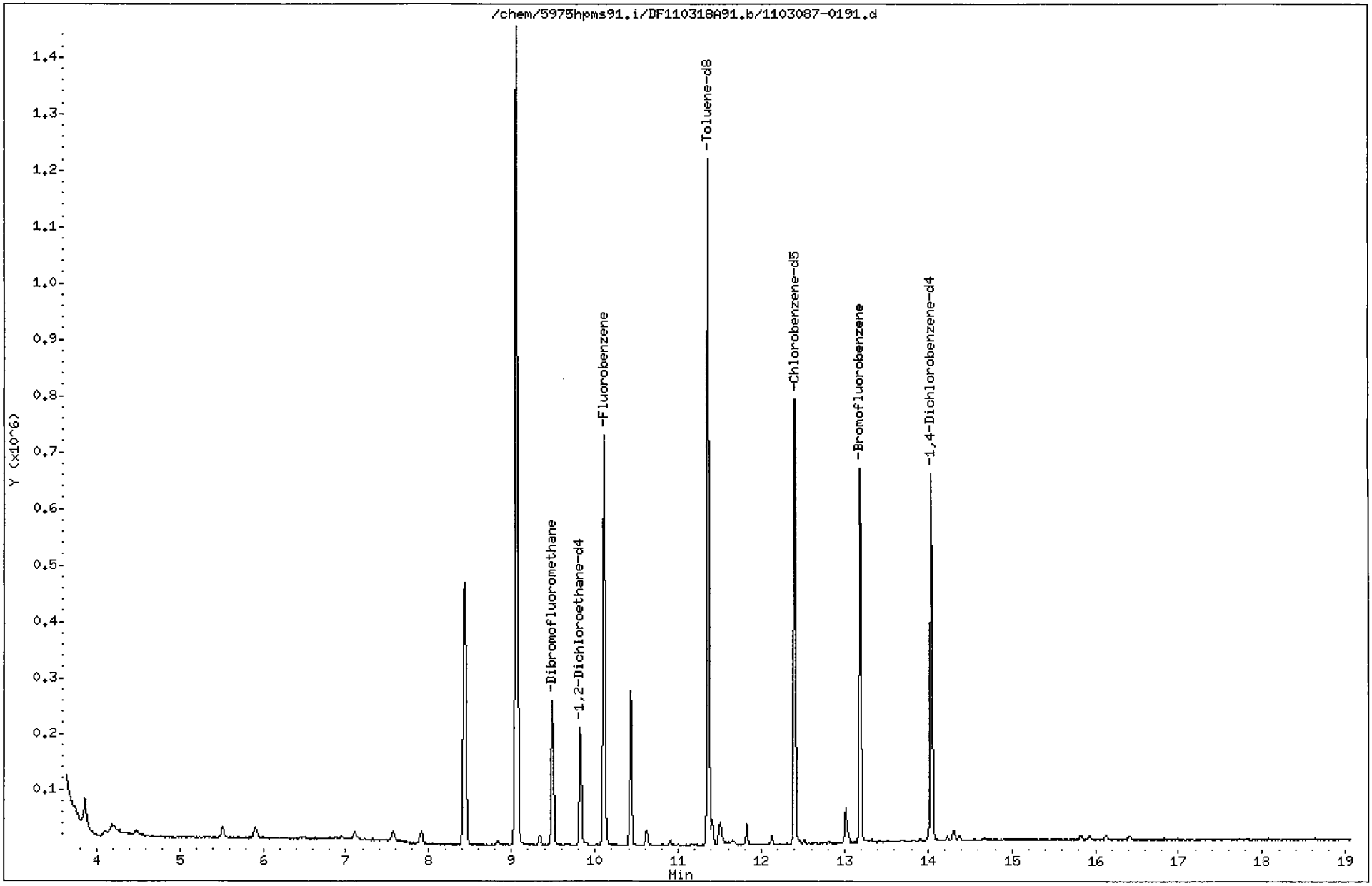
Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Date : 18-MAR-2011 20:26
Client ID: MW-3
Sample Info: 1103087-01:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Report Date: 22-Mar-2011 11:57

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Lab Smp Id: 1103087-01 Client Smp ID: MW-3
Inj Date : 18-MAR-2011 20:26
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-01:TD
Misc Info : MW-3
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	596279	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	391335	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	172225	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	151209	121.870	4.9
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	143505	109.582	4.4
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	698619	138.752	5.6
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.940)	223828	128.340	5.1
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	5.515	5.515	(0.545)	24309	48.3796	1.9
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

pmt 3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.563	7.563	(0.748)	8108	2.72316	0.11(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	7.917	7.910	(0.783)	9586	6.59317	0.26(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	497799	186.768	7.5
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	630253	425.145	17
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	9.343	9.343	(0.924)	12124	4.46641	0.18(a)
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	10.428	10.428	(1.031)	80811	52.7653	2.1
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	7107	5.31461	0.21(a)
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.830	11.824	(0.954)	7583	4.76558	0.19(a)
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

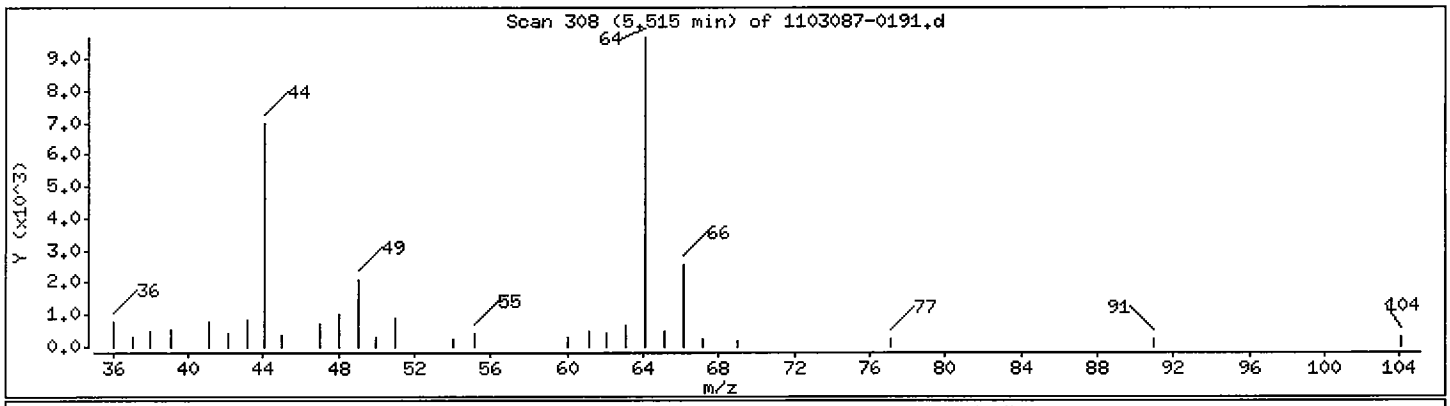
Client ID: MW-3 Instrument: 5975hpms91.i

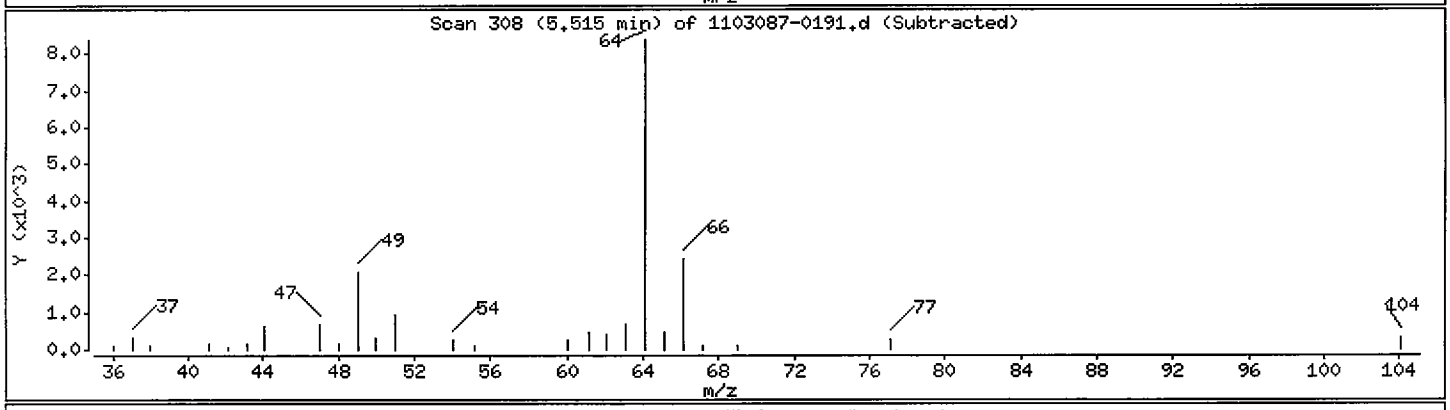
Sample Info: 1103087-01:TD

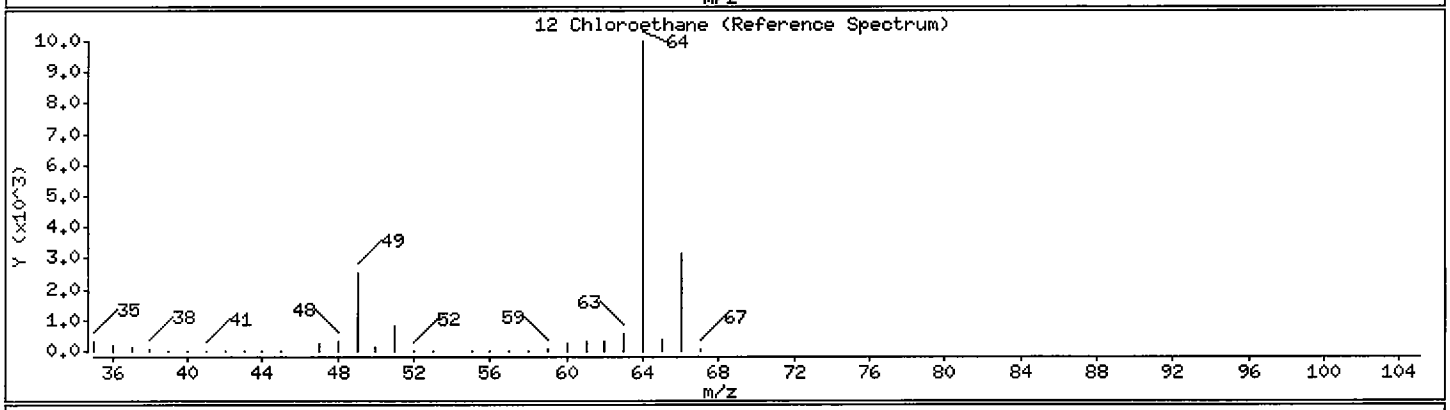
Purge Volume: 25.0 Operator: TD

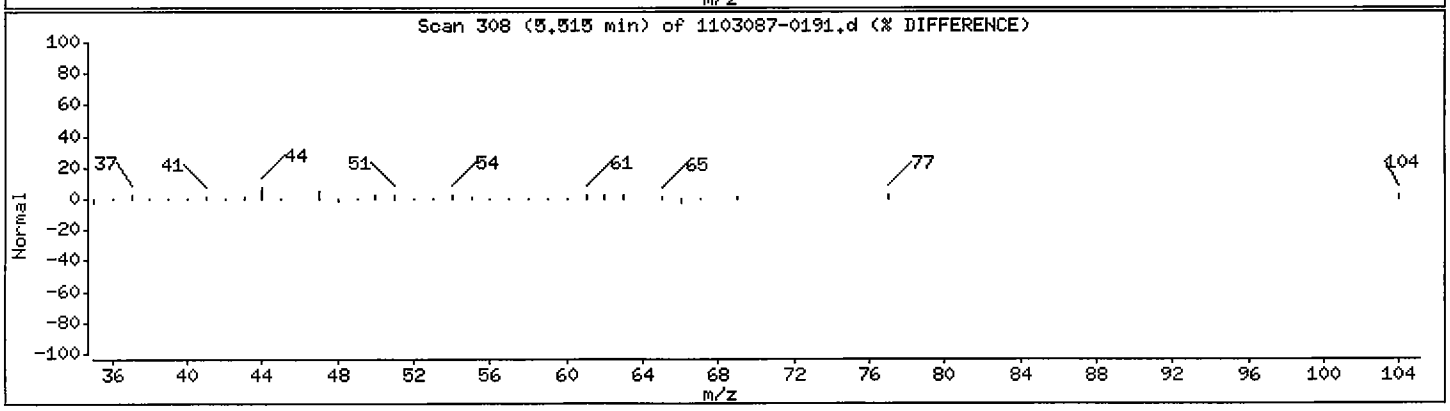
Column phase: SPB-624 Column diameter: 0.32

12 Chloroethane Concentration: 1.9 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

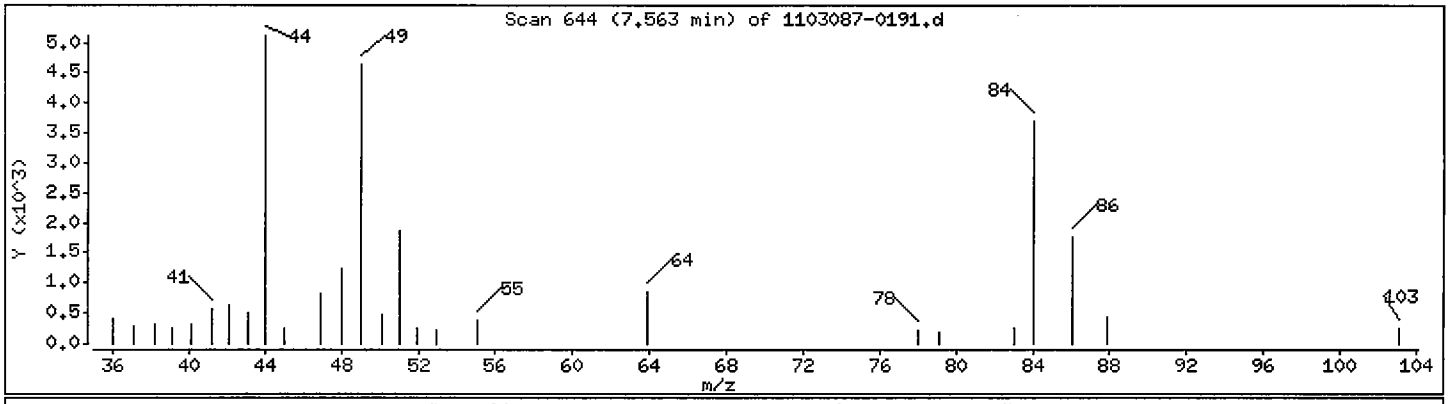
Client ID: MW-3 | Instrument: 5975hpms91.i

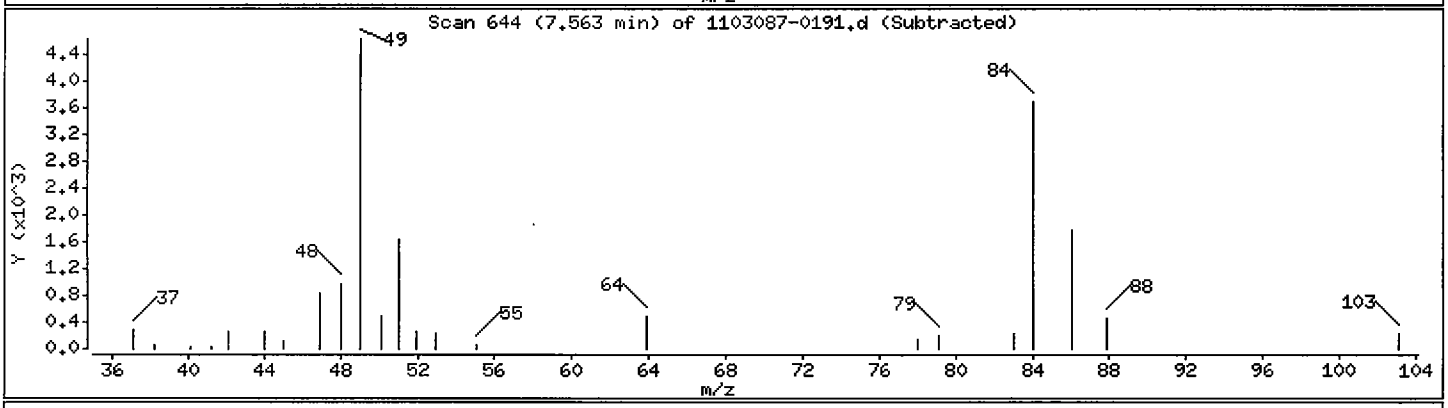
Sample Info: 1103087-01:TD

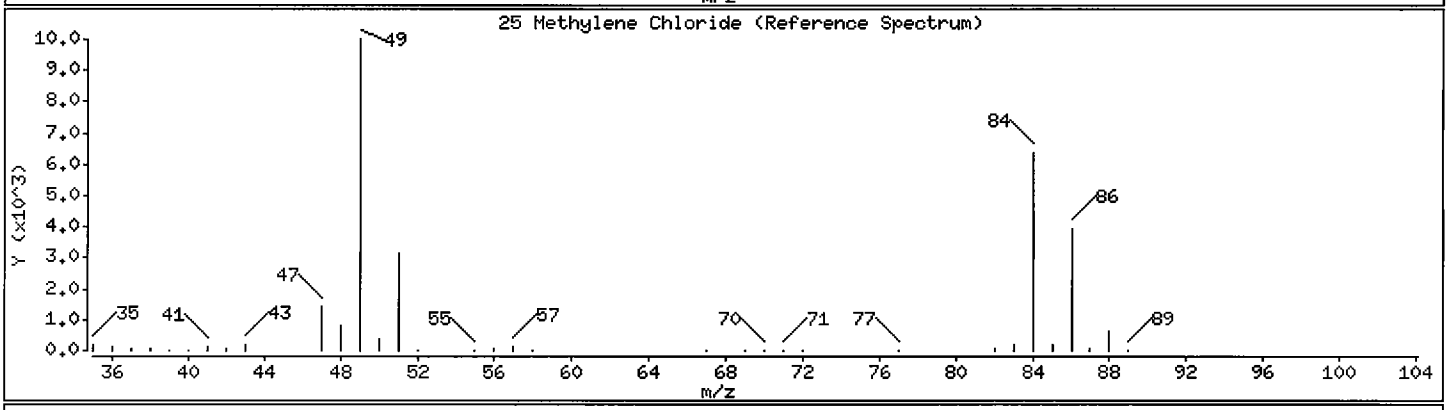
Purge Volume: 25.0 | Operator: TD

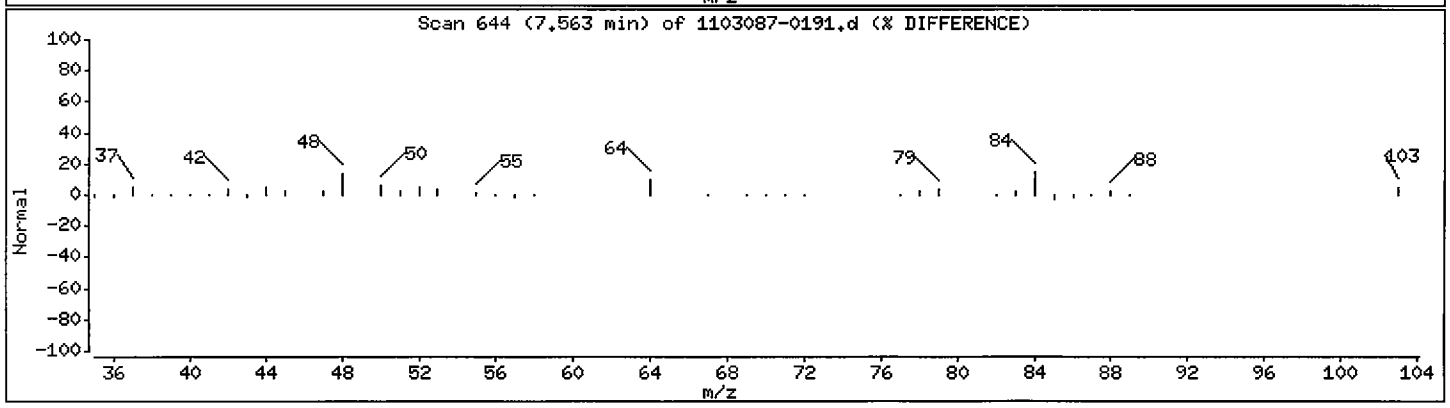
Column phase: SPB-624 | Column diameter: 0.32

25 Methylene Chloride | Concentration: 0.11 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

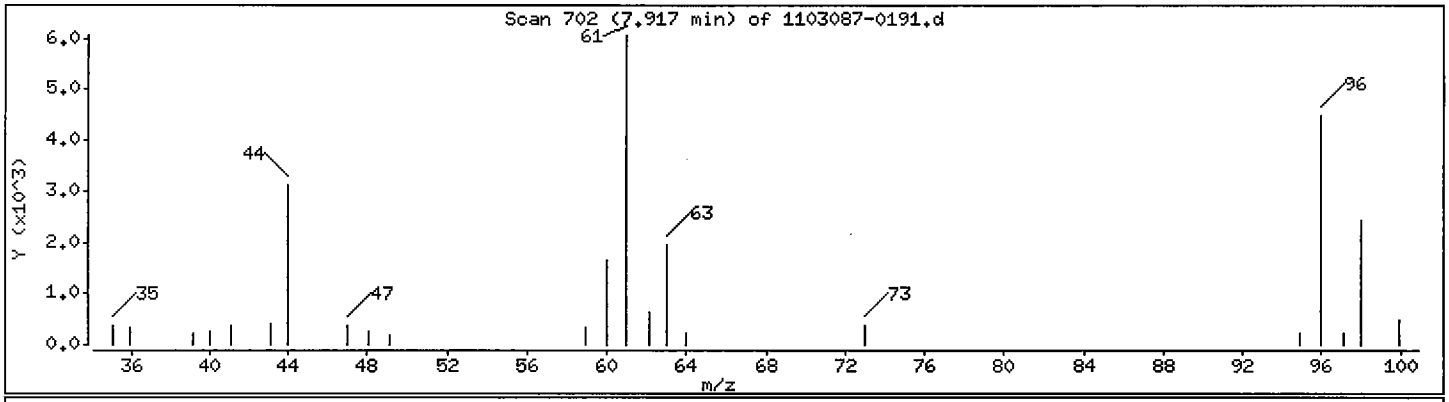
Client ID: MW-3 | Instrument: 5975hpms91.i

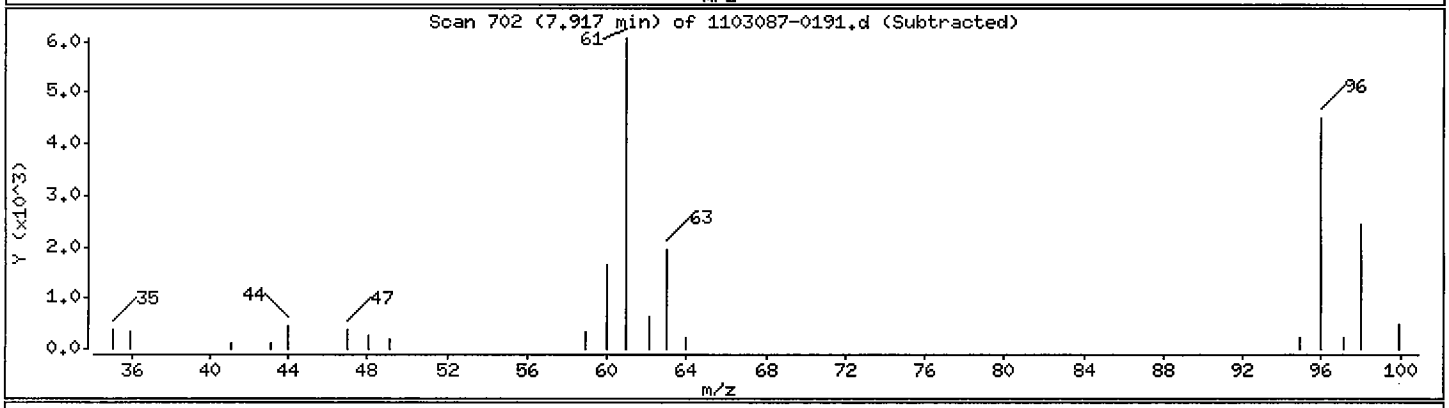
Sample Info: 1103087-01:TD

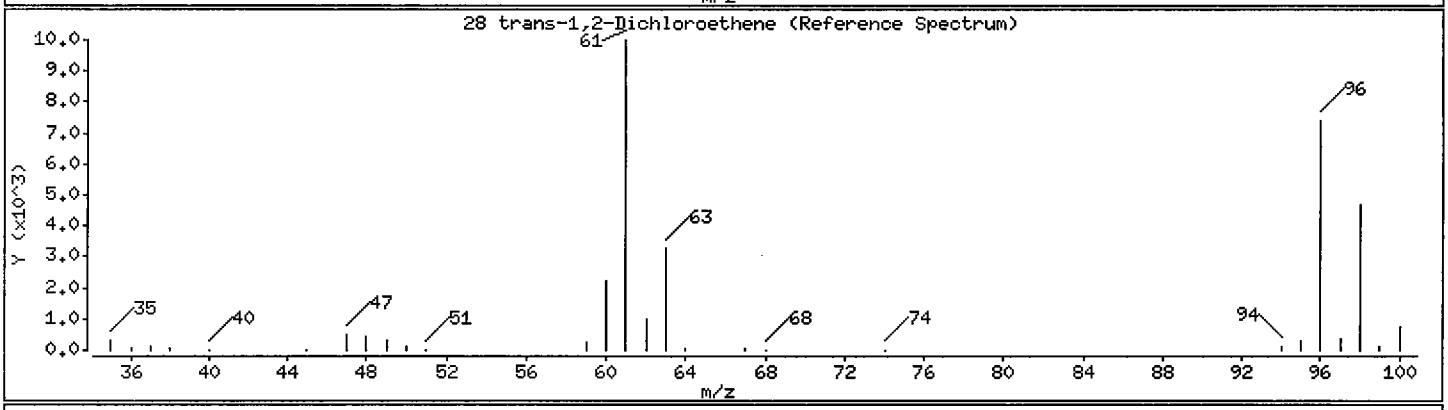
Purge Volume: 25.0 | Operator: TD

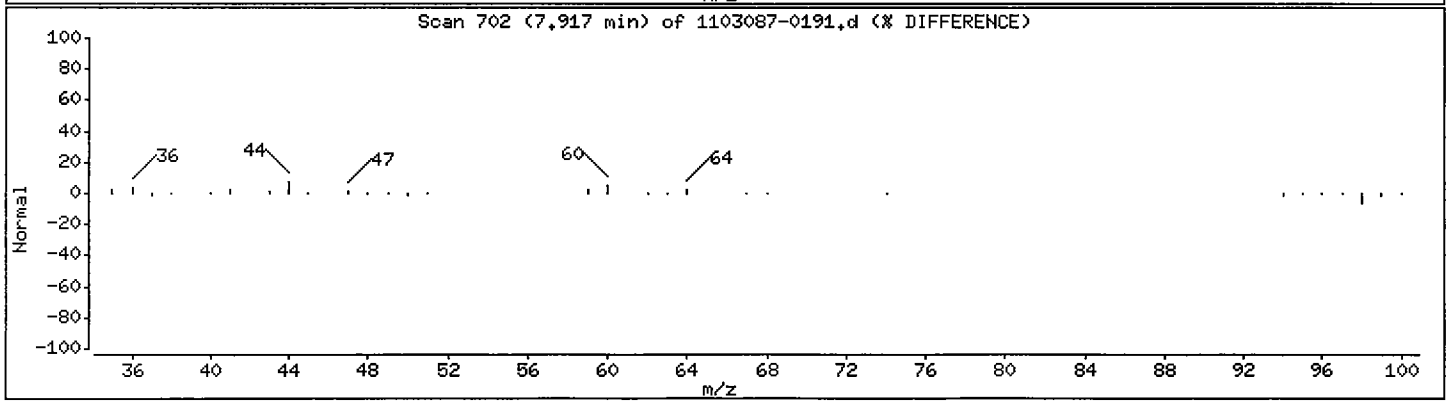
Column phase: SPB-624 | Column diameter: 0.32

28 trans-1,2-Dichloroethene | Concentration: 0.26 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

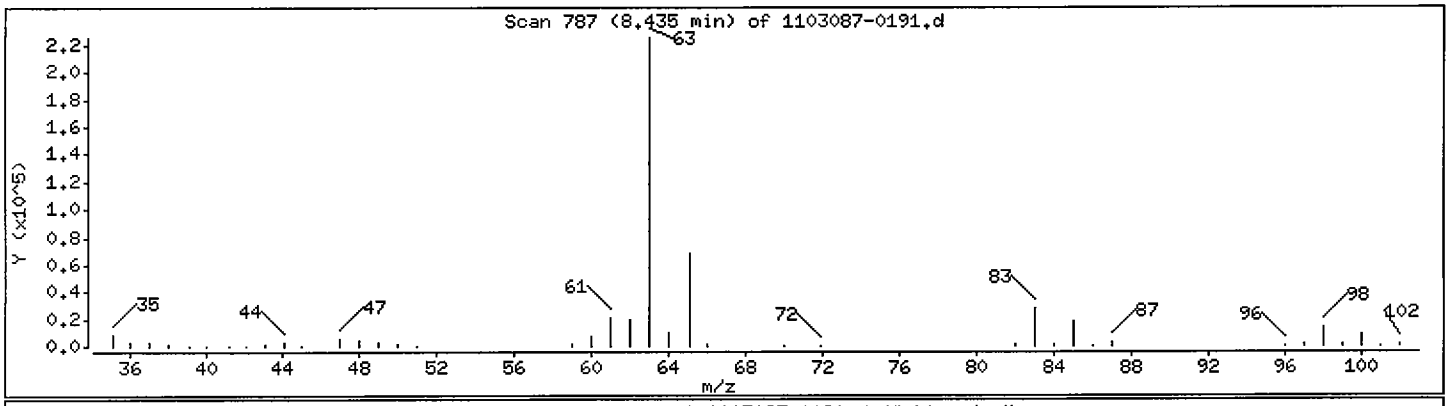
Client ID: MW-3 | Instrument: 5975hpms91.i

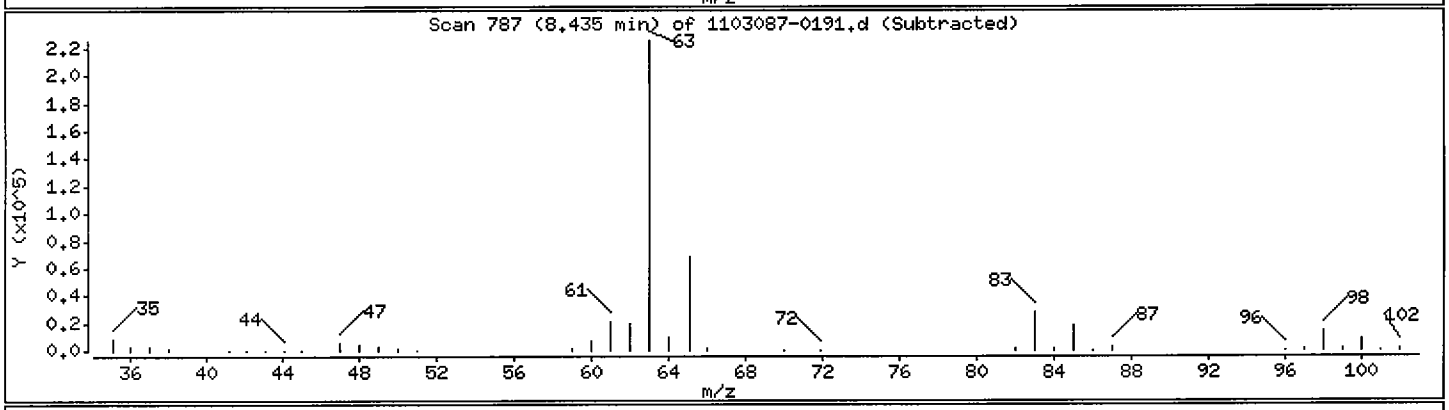
Sample Info: 1103087-01:TD

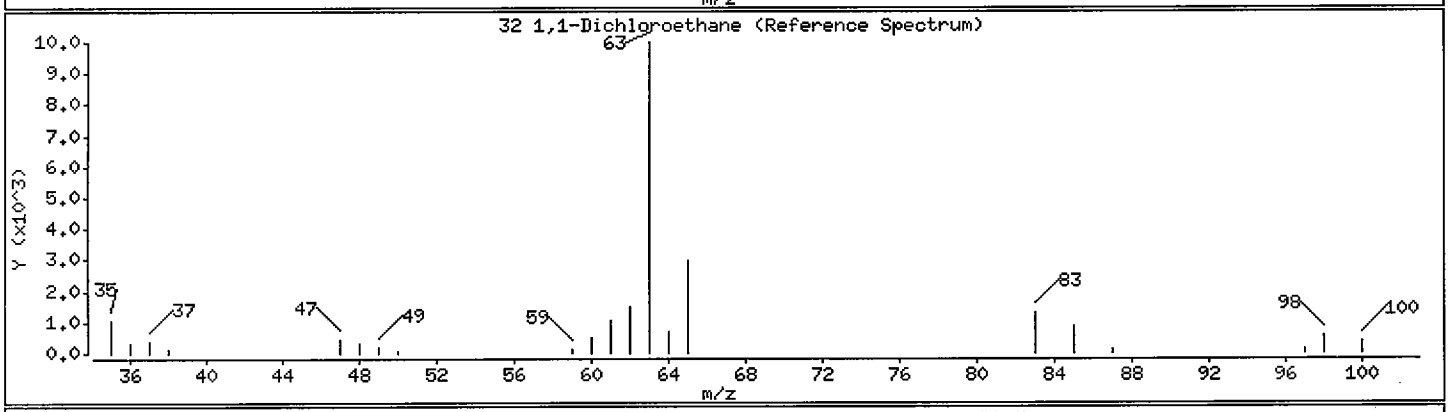
Purge Volume: 25.0 | Operator: TD

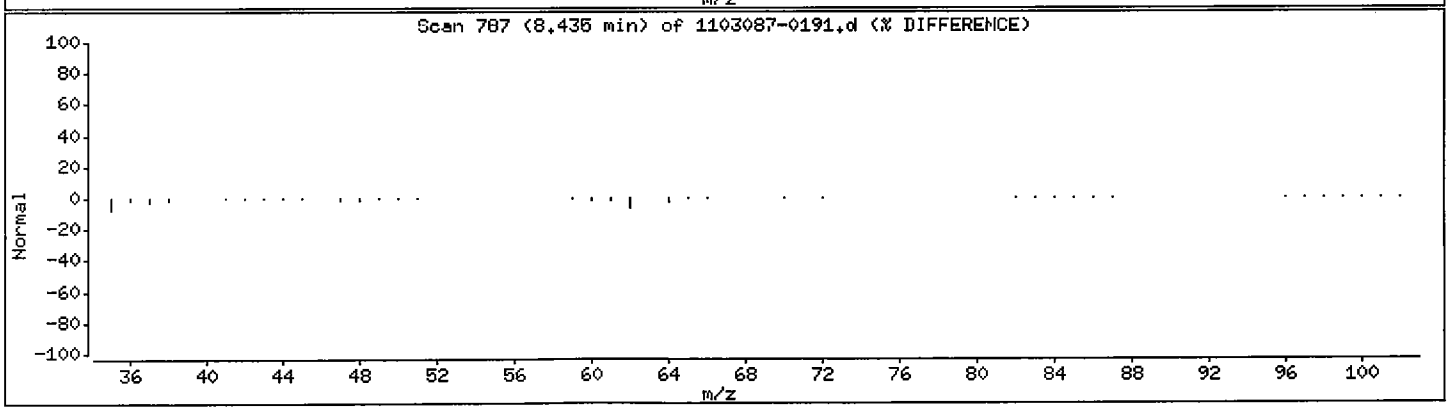
Column phase: SPB-624 | Column diameter: 0.32

32 1,1-Dichloroethane | Concentration: 7.5 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

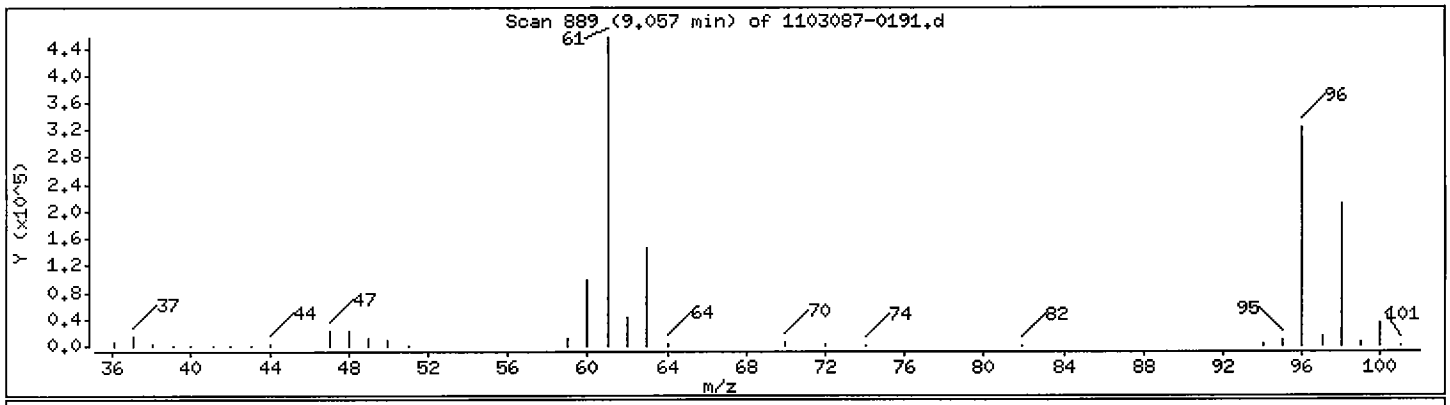
Client ID: MW-3 Instrument: 5975hpms91.i

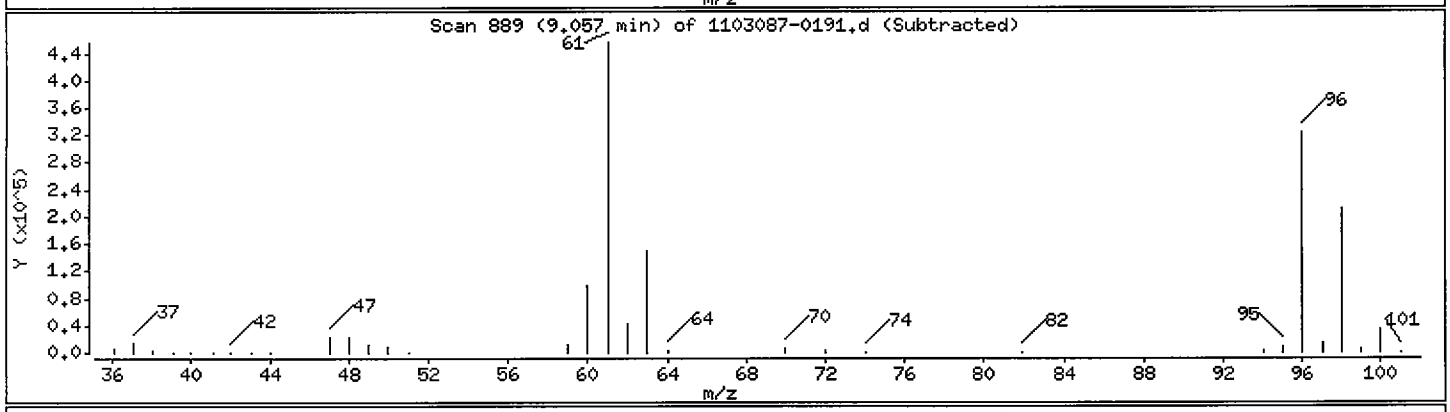
Sample Info: 1103087-01:TD

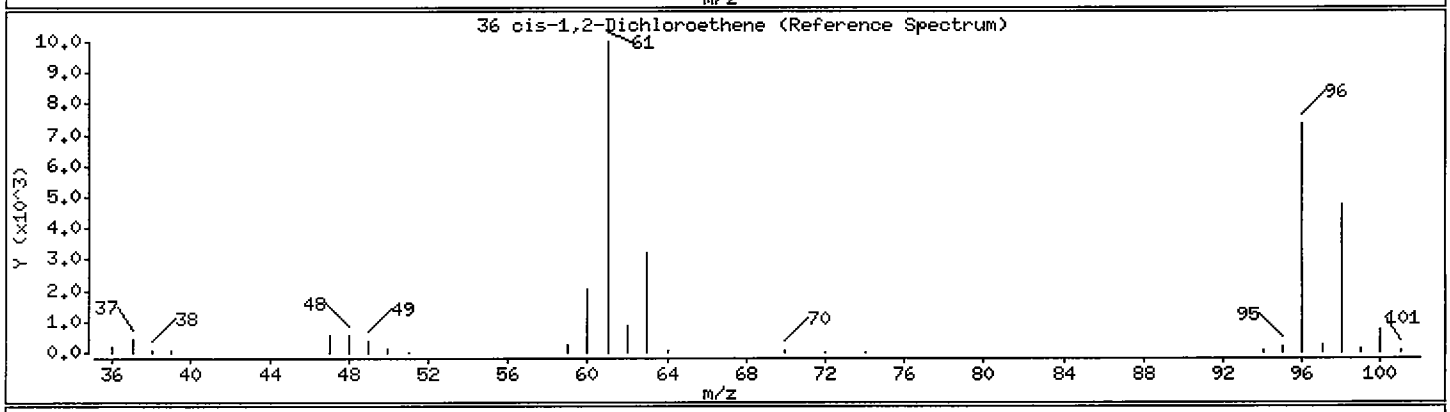
Purge Volume: 25.0 Operator: TD

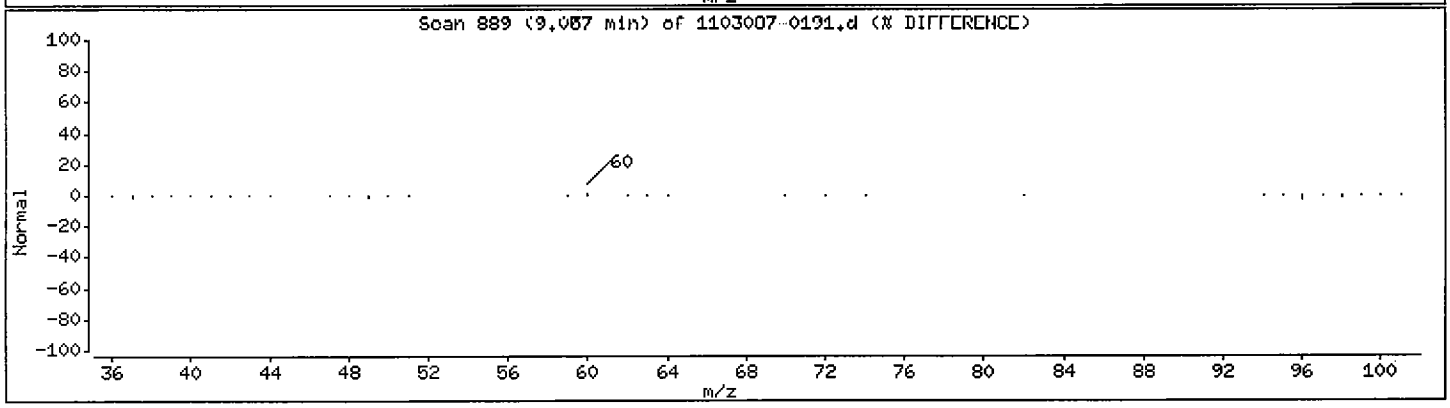
Column phase: SPB-624 Column diameter: 0.32

36 cis-1,2-Dichloroethene Concentration: 17 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

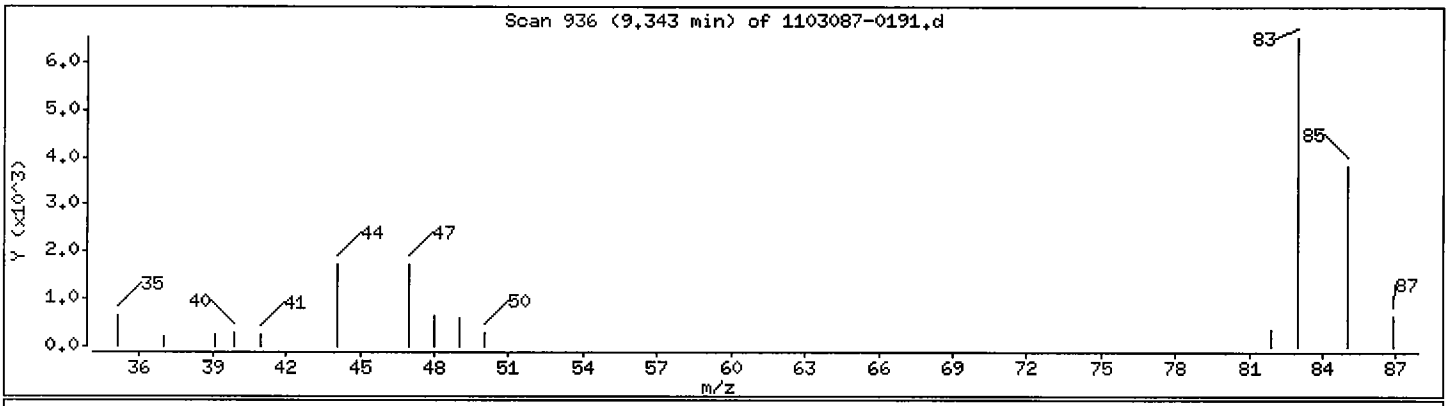
Client ID: MW-3 | Instrument: 5975hpms91.i

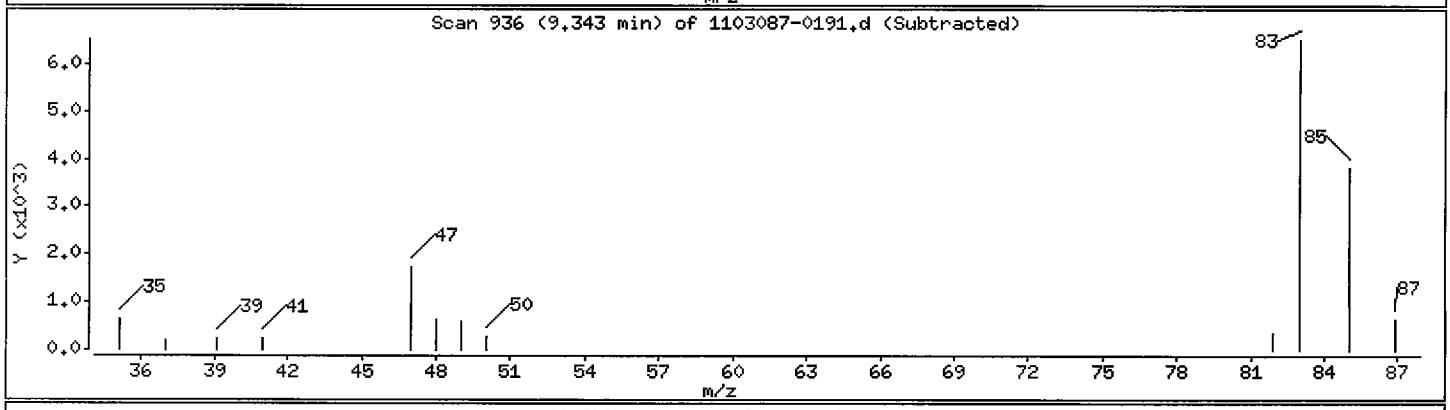
Sample Info: 1103087-01:TD

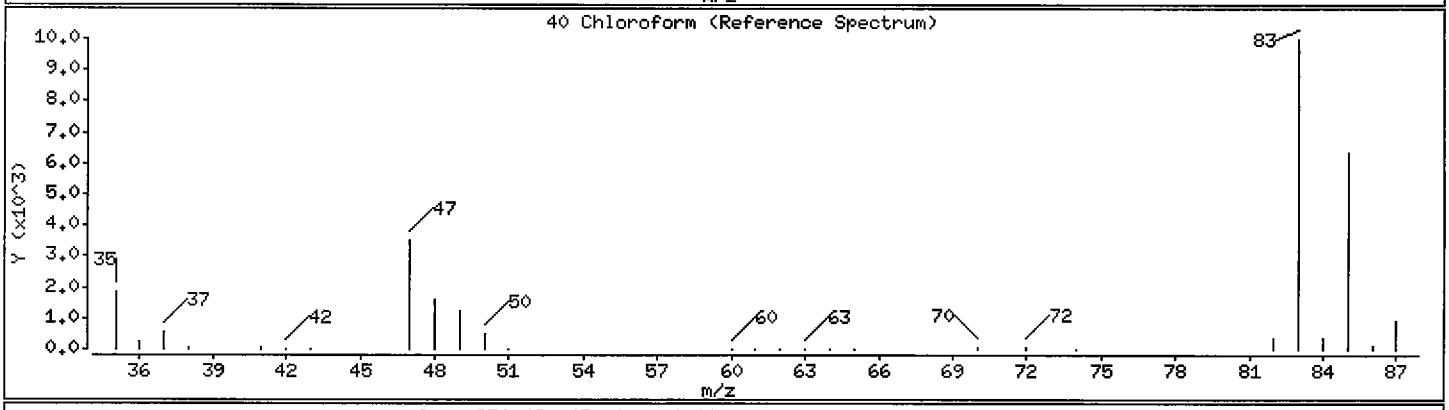
Purge Volume: 25.0 | Operator: TD

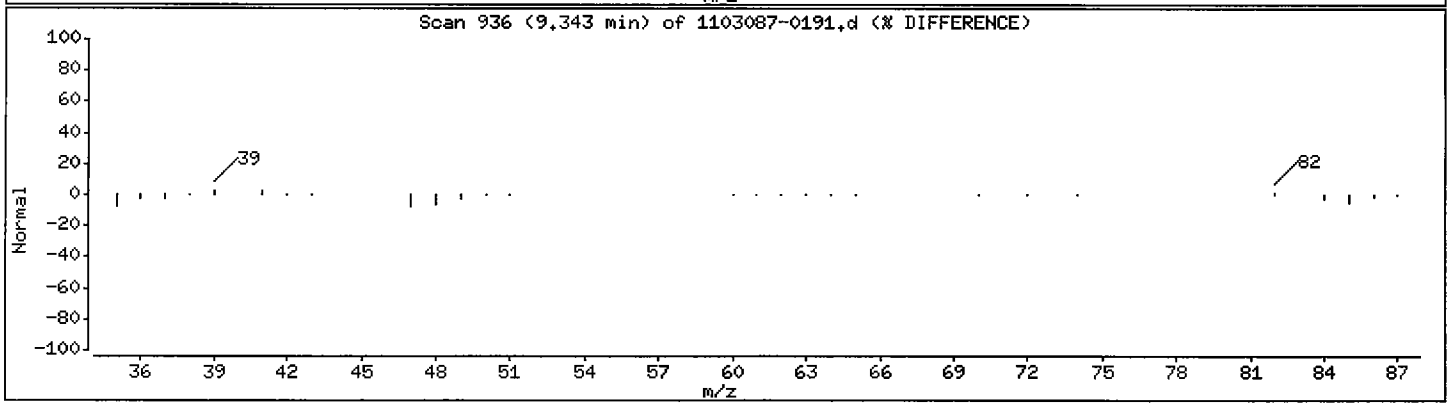
Column phase: SPB-624 | Column diameter: 0.32

40 Chloroform | Concentration: 0.18 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

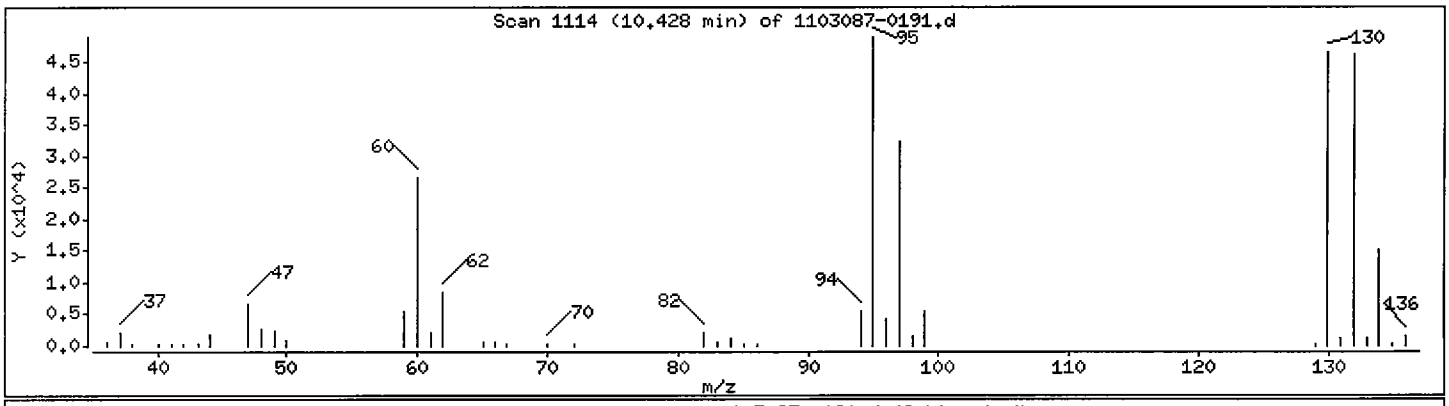
Client ID: MW-3 Instrument: 5975hpms91.i

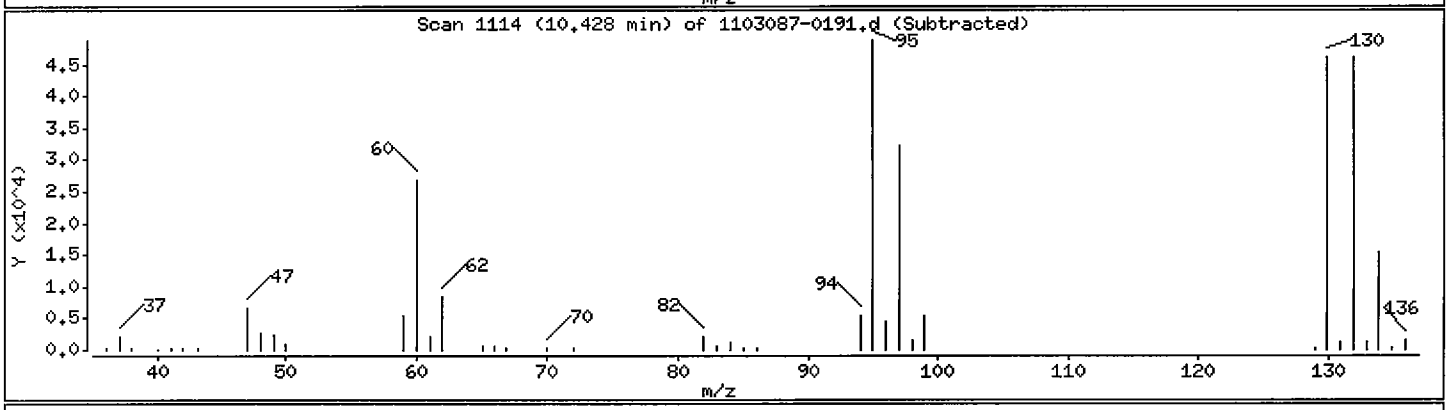
Sample Info: 1103087-01:TD

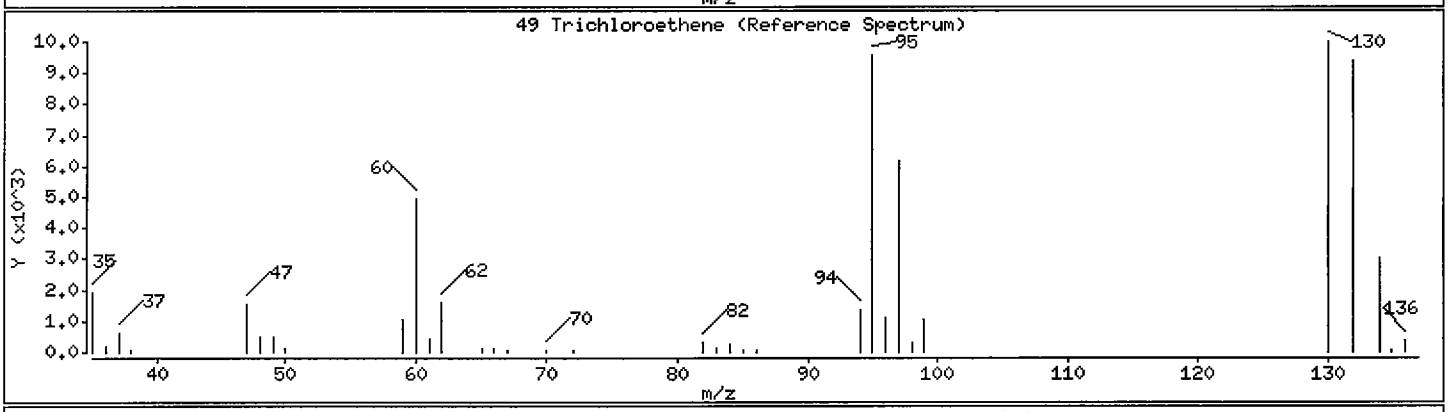
Purge Volume: 25.0 Operator: TD

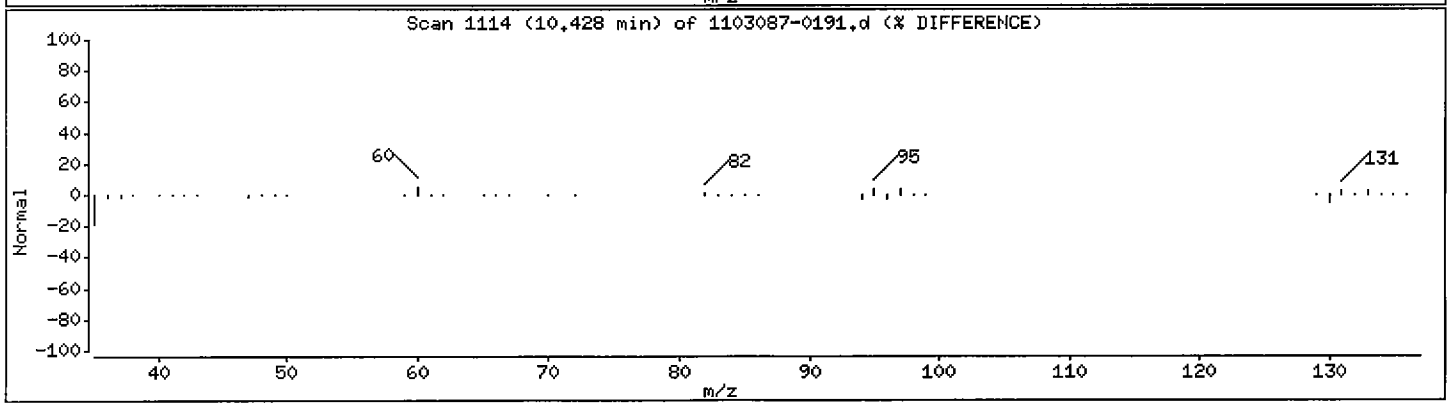
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 2.1 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

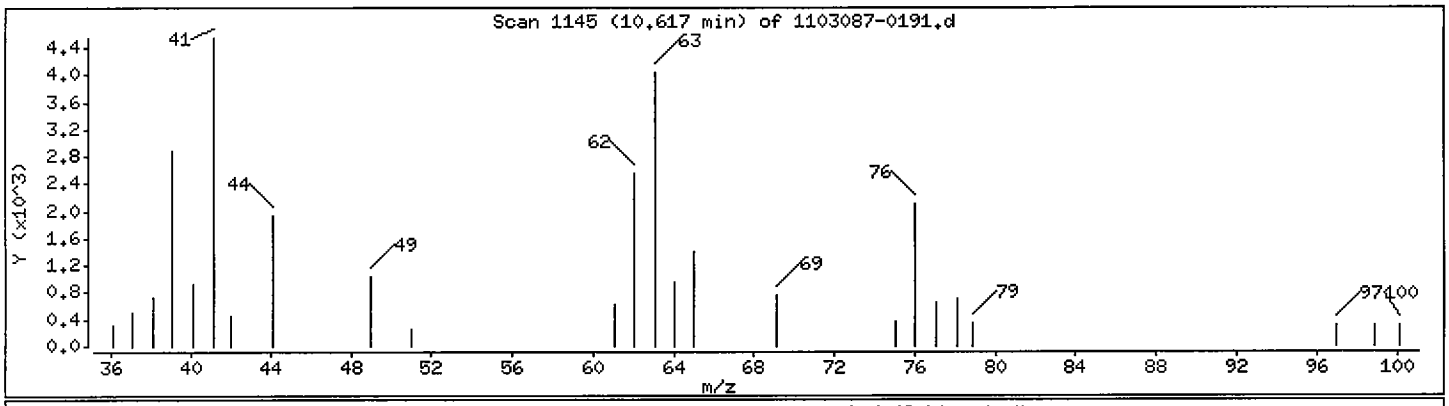
Client ID: MW-3 | Instrument: 5975hpms91.i

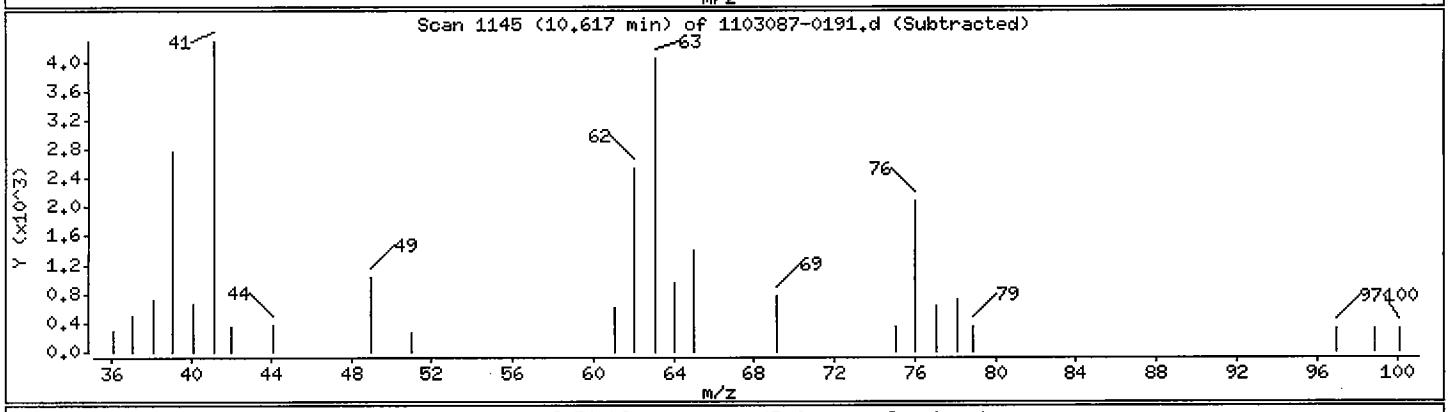
Sample Info: 1103087-01:TD

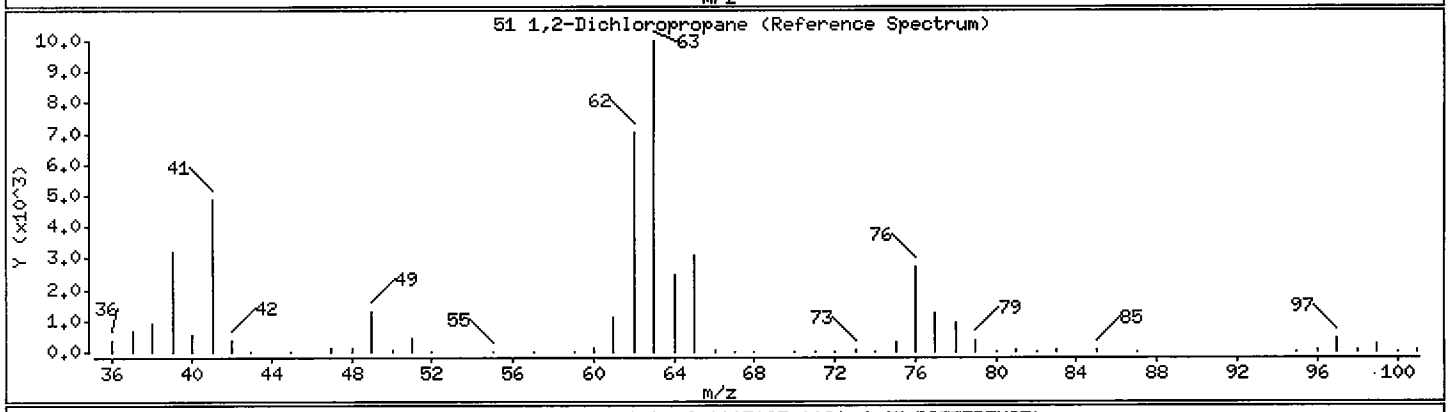
Purge Volume: 25.0 | Operator: TD

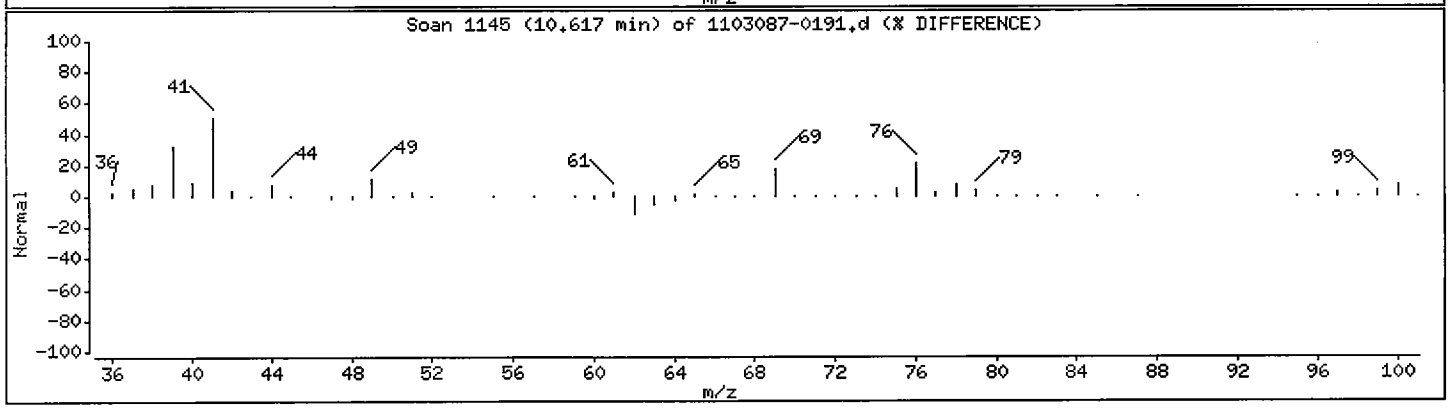
Column phase: SPB-624 | Column diameter: 0.32

51 1,2-Dichloropropane | Concentration: 0.21 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d

Date : 18-MAR-2011 20:26

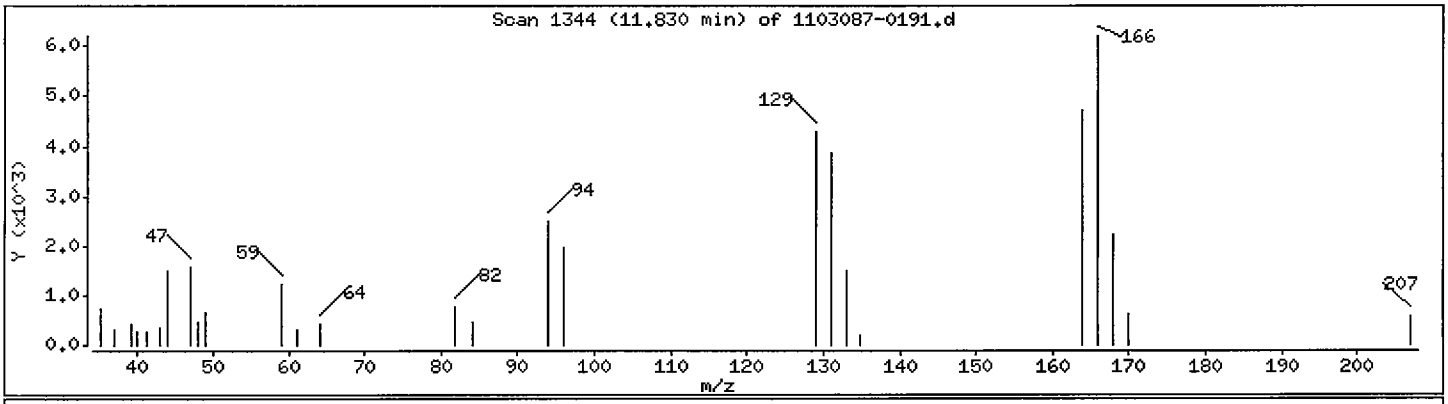
Client ID: MW-3 Instrument: 5975hpms91.i

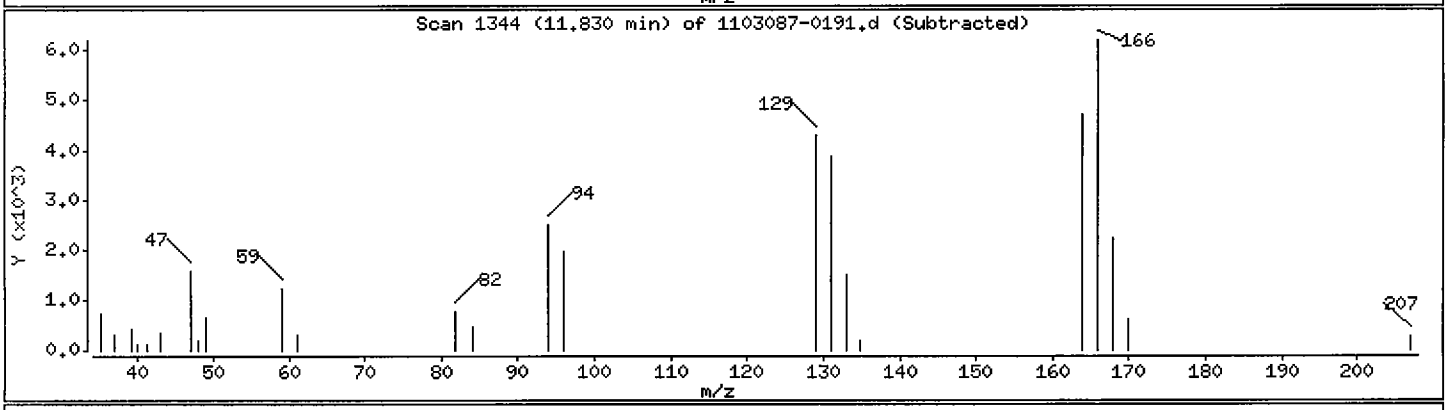
Sample Info: 1103087-01:TD

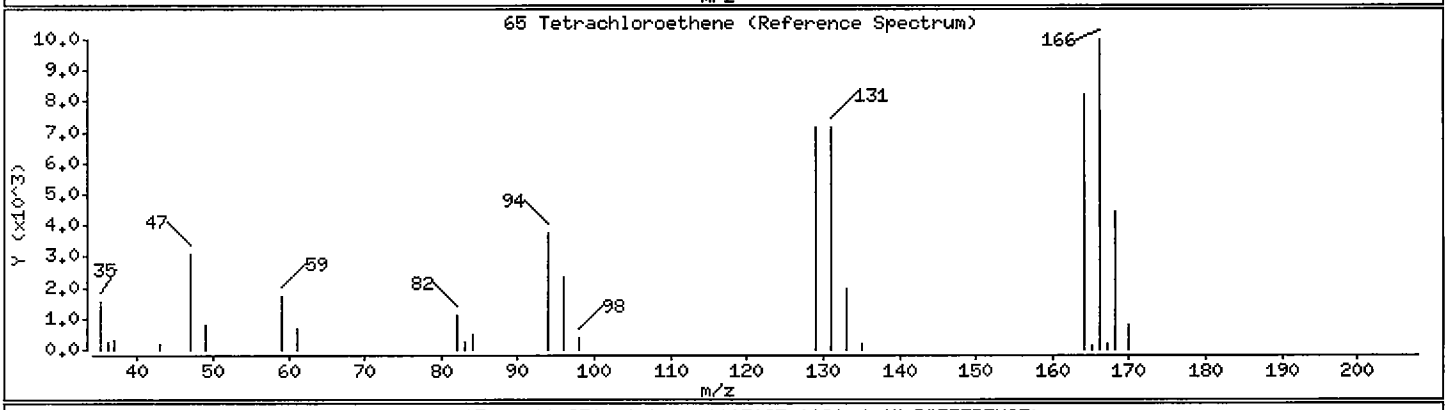
Purge Volume: 25.0 Operator: TD

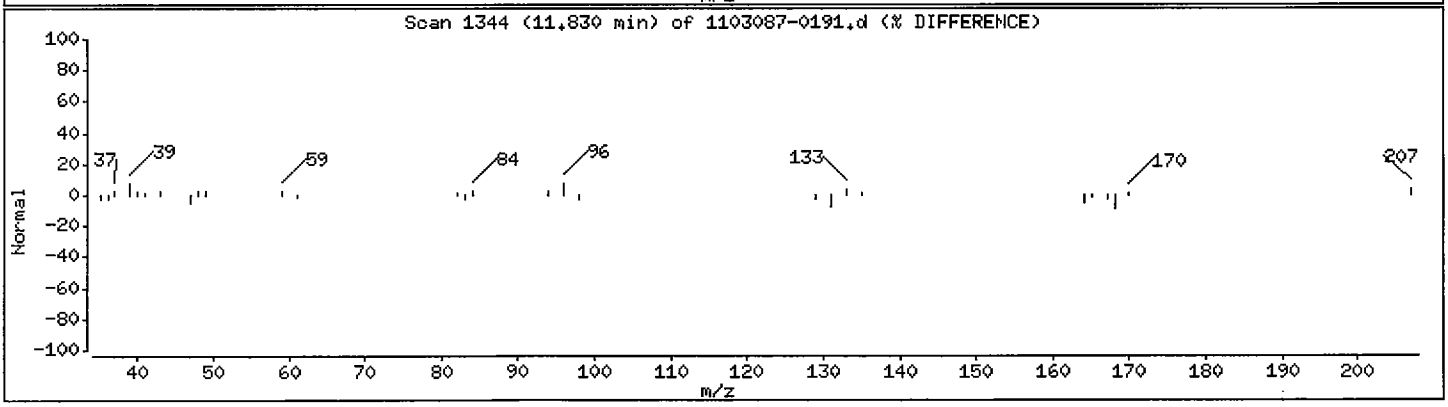
Column phase: SPB-624 Column diameter: 0.32

65 Tetrachloroethene Concentration: 0.19 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Report Date: 22-Mar-2011 11:57

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SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0191.d
Lab Smp Id: 1103087-01 Client Smp ID: MW-3
Inj Date : 18-MAR-2011 20:26
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-01:TD
Misc Info : MW-3
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

ANALYSIS DATA SHEET

SW 8260B

MW-8

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0391.d | Sampled: 03/17/11 12:15

Initial/Final: 25mL / 25mL | Lab ID: 1103087-03 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:24

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.14	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane	0.12	0.020	0.50	J
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	0.042	0.030	0.50	J
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-8

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0391.d | Sampled: 03/17/11 12:15

Initial/Final: 25mL / 25mL | Lab ID: 1103087-03 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:24

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.538	111	65 - 150	
1,2-Dichloroethane-d4	5.000	5.385	108	59 - 150	
Toluene-d8	5.000	5.382	108	61 - 145	
Bromofluorobenzene	5.000	5.107	102	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

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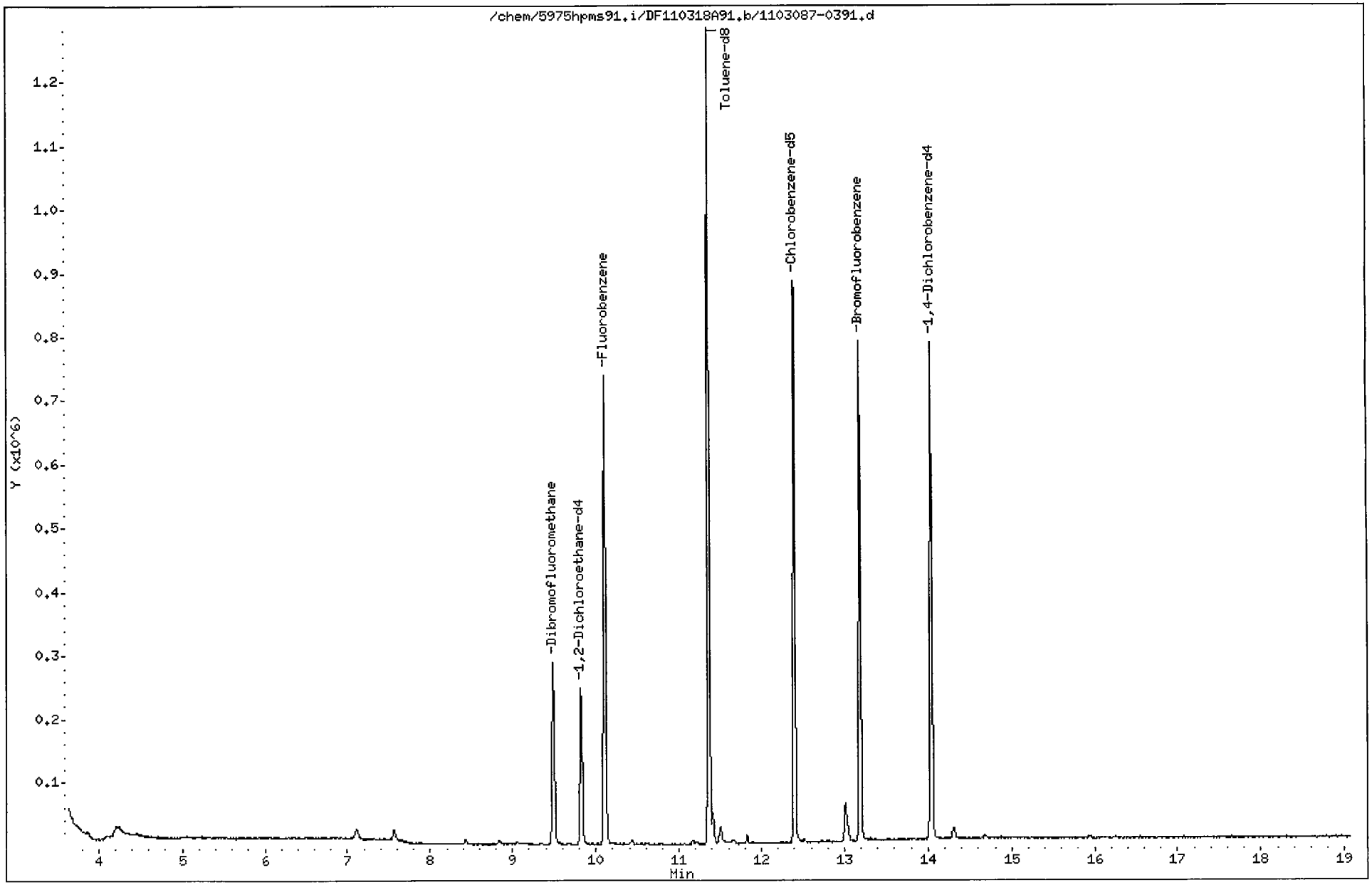
Liberty Analytical Corp.

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Date : 18-MAR-2011 21:24
Client ID: MW-8
Sample Info: 1103087-03:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Report Date: 22-Mar-2011 11:58

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SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Lab Smp Id: 1103087-03 Client Smp ID: MW-8
Inj Date : 18-MAR-2011 21:24
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-03:TD
Misc Info : MW-8
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	599970	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	428620	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	202123	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	172851	138.456	5.5
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	177384	134.619	5.4
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	741984	134.546	5.4
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.940)	261310	127.668	5.1
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.563	7.563	(0.748)	8537	3.45306	0.14(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	7885	2.94015	0.12(a)
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	1573	1.05456	0.042(a)
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	Compound Not Detected.					
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d

Date : 18-MAR-2011 21:24

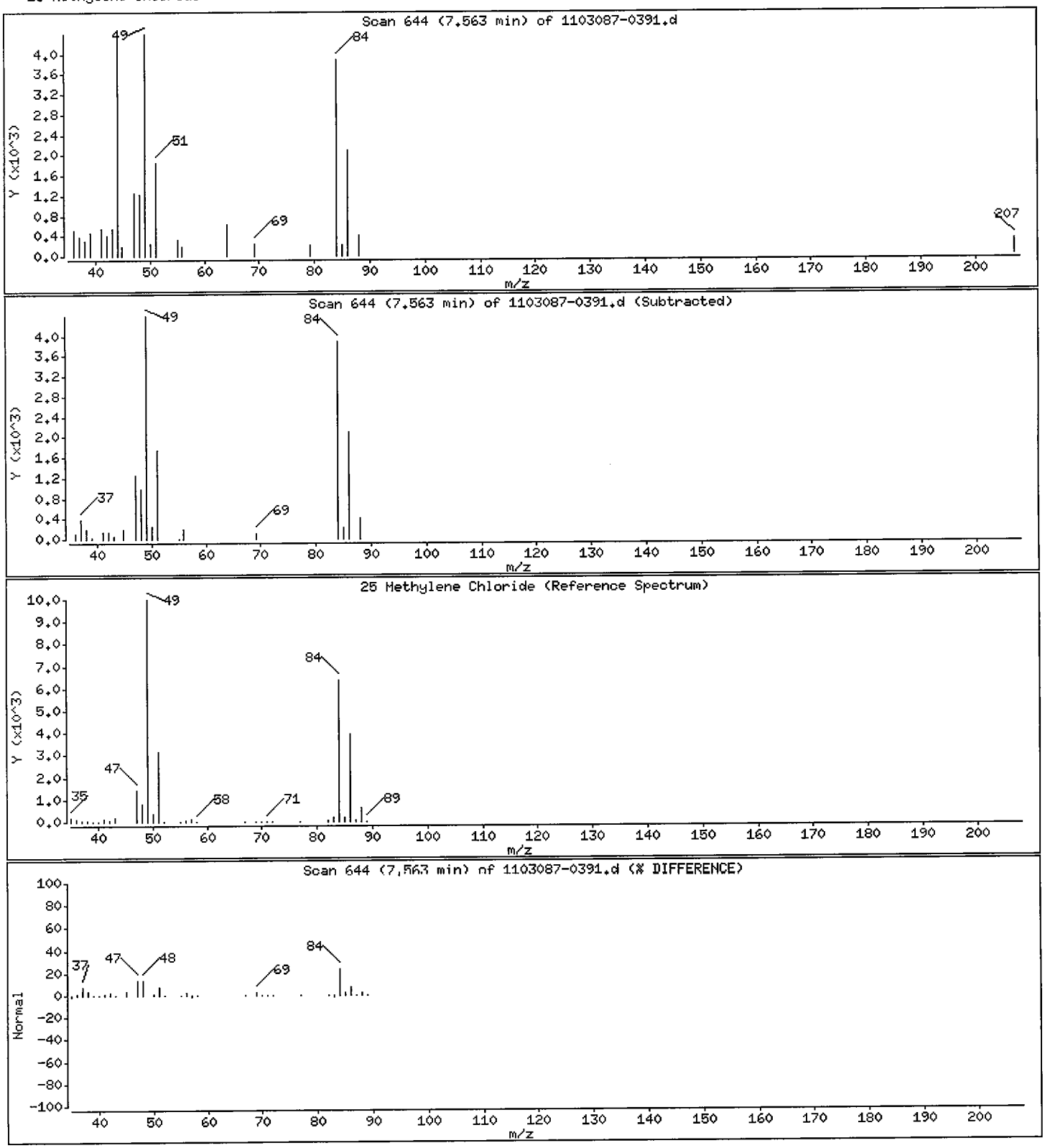
Client ID: MW-8 | Instrument: 5975hpms91.i

Sample Info: 1103087-03:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

25 Methylene Chloride | Concentration: 0.14 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d

Date : 18-MAR-2011 21:24

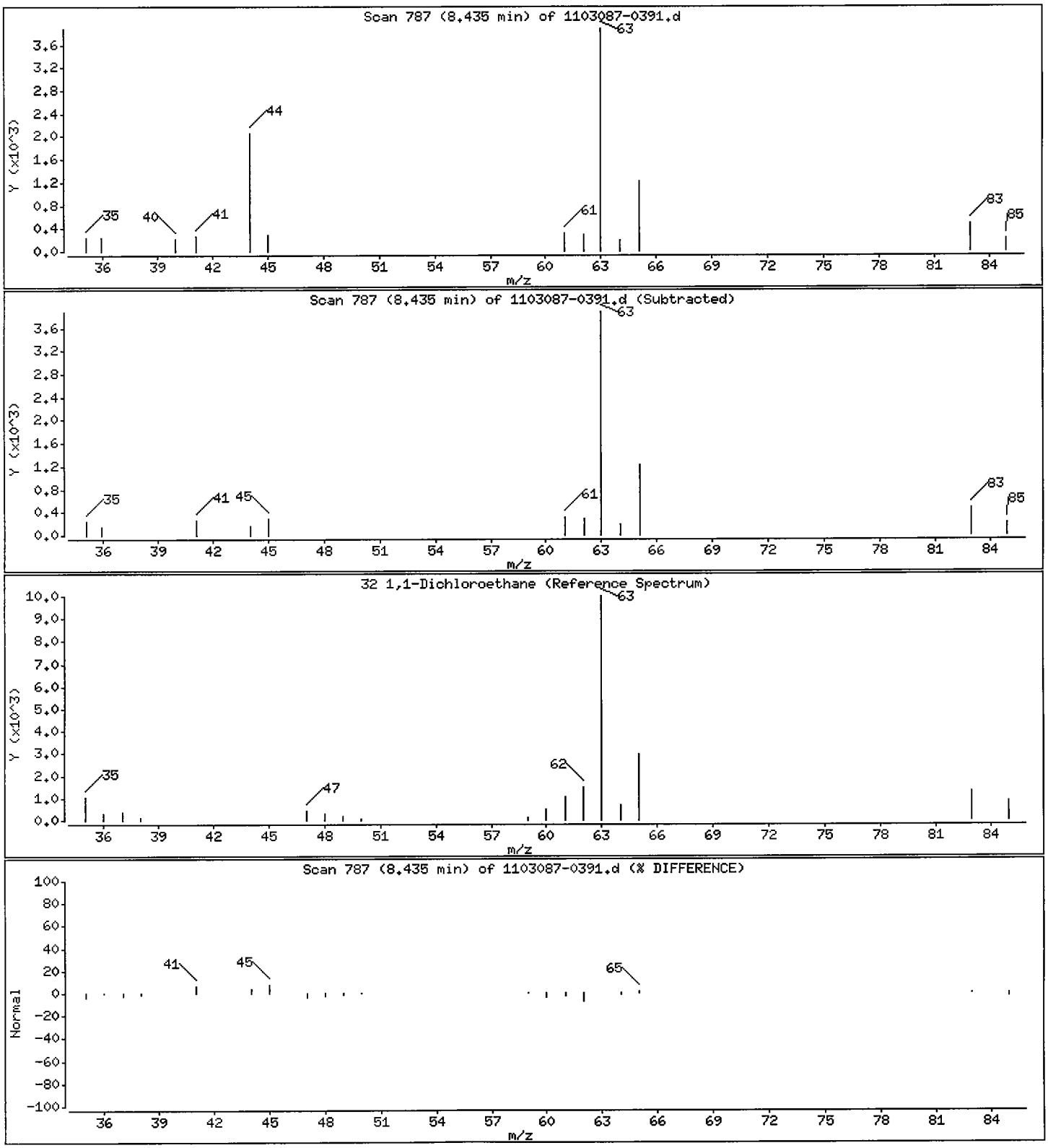
Client ID: MW-8 Instrument: 5975hpms91.i

Sample Info: 1103087-03:TD

Purge Volume: 25.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 0.12 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d

Date : 18-MAR-2011 21:24

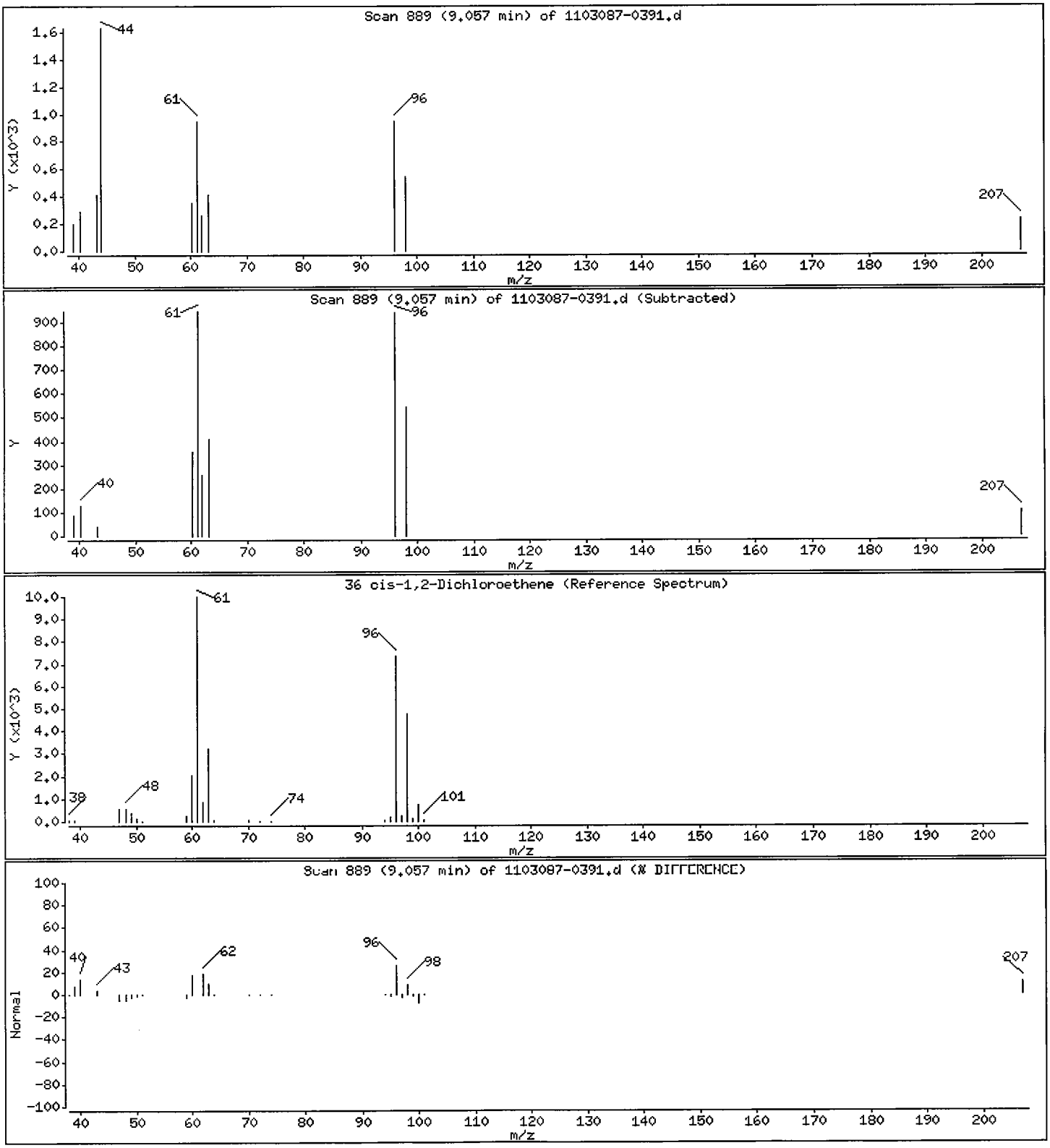
Client ID: MW-8 | Instrument: 5975hpms91.i

Sample Info: 1103087-03:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

36 cis-1,2-Dichloroethene | Concentration: 0.042 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0391.d
Lab Smp Id: 1103087-03 Client Smp ID: MW-8
Inj Date : 18-MAR-2011 21:24
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-03:TD
Misc Info : MW-8
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

ANALYSIS DATA SHEET

SW 8260B

MW-9

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0491.d | Sampled: 03/16/11 12:30

Initial/Final: 25mL / 25mL | Lab ID: 1103087-04 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:52

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	0.49	0.030	0.50	J
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride	1.2	0.070	0.50	
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	1.9	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.47	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.24	0.050	0.50	J
75-34-3	1,1-Dichloroethane	7.7	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	5.2	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene	2.0	0.030	0.50	
79-01-6	Trichloroethene	0.83	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.15	0.12	0.50	J
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

Environmental Testing Laboratories
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ANALYSIS DATA SHEET

SW 8260B

MW-9

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0491.d | Sampled: 03/16/11 12:30

Initial/Final: 25mL / 25mL | Lab ID: 1103087-04 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 21:52

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.56	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene	0.37	0.020	0.50	J
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene	1.7	0.030	0.50	
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.314	106	65 - 150	
1,2-Dichloroethane-d4	5.000	5.176	104	59 - 150	
Toluene-d8	5.000	5.206	104	61 - 145	
Bromofluorobenzene	5.000	4.859	97	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
60-29-7	Ethyl Ether	0.93	244479	6.49	90	JN
NA	Unknown 5.905	0.77	202827	5.905	0	J
NA	Unknown 7.106	0.36	95773	7.106	0	J

Environmental Testing Laboratories
CompuChem
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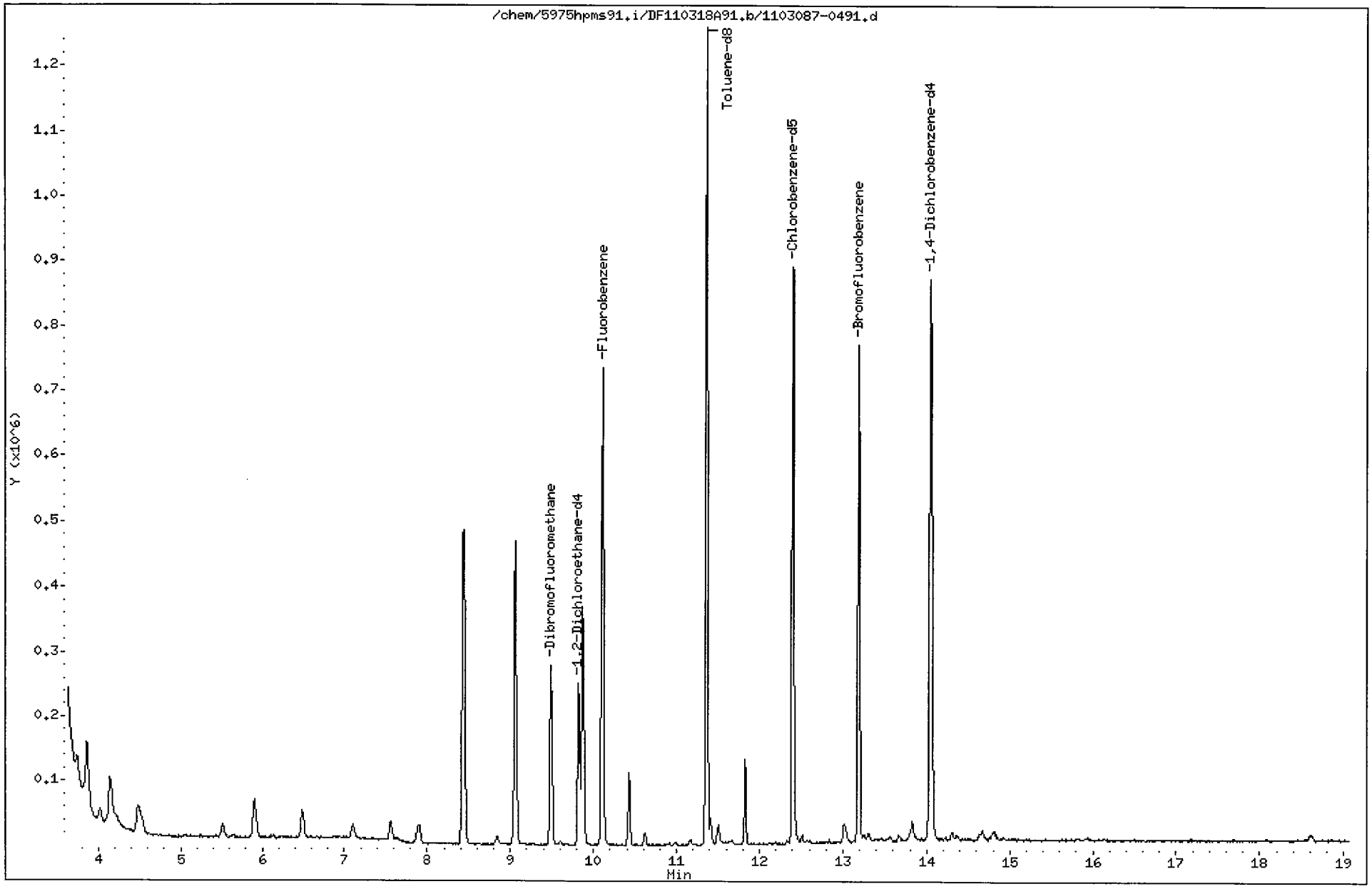
Liberty Analytical Corp.

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Date : 18-MAR-2011 21:52
Client ID: MW-9
Sample Info: 1103087-04:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Lab Smp Id: 1103087-04 Client Smp ID: MW-9
Inj Date : 18-MAR-2011 21:52
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-04:TD
Misc Info : MW-9
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	606152	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	432358	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	206576	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	167564	132.852	5.3
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	172262	129.398	5.2
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	724069	130.162	5.2
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	254095	121.467	4.9
8 Dichlorodifluoromethane	85	3.832	3.826	(0.379)	23662	12.3192	0.49(a)
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.533	4.527	(0.448)	27939	29.2056	1.2
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	5.521	5.515	(0.546)	24698	48.3532	1.9
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

pm 3.22.11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.563	7.563	(0.748)	12920	11.6444	0.47(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	9038	6.11501	0.24(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	520201	191.993	7.7
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	194464	129.041	5.2
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	9.873	9.873	(0.976)	309297	50.0884	2.0
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	10.428	10.428	(1.031)	32318	20.7582	0.83
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	5044	3.71046	0.15(a)
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.824	11.824	(0.953)	24572	13.9772	0.56
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	12.422	12.422	(1.001)	39535	9.33175	0.37(a)
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	140681	42.7257	1.7
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

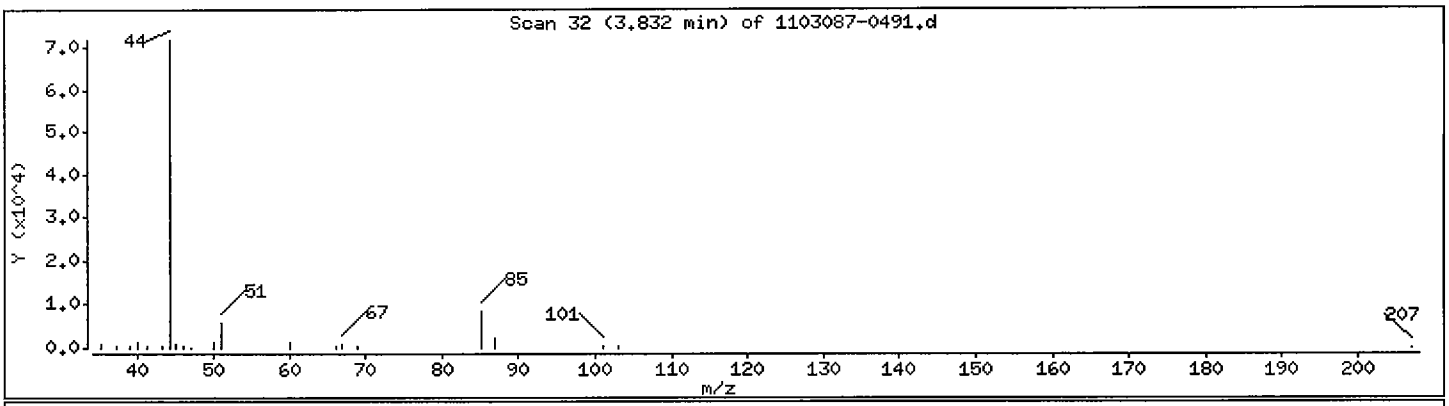
Client ID: MW-9 | Instrument: 5975hpms91.i

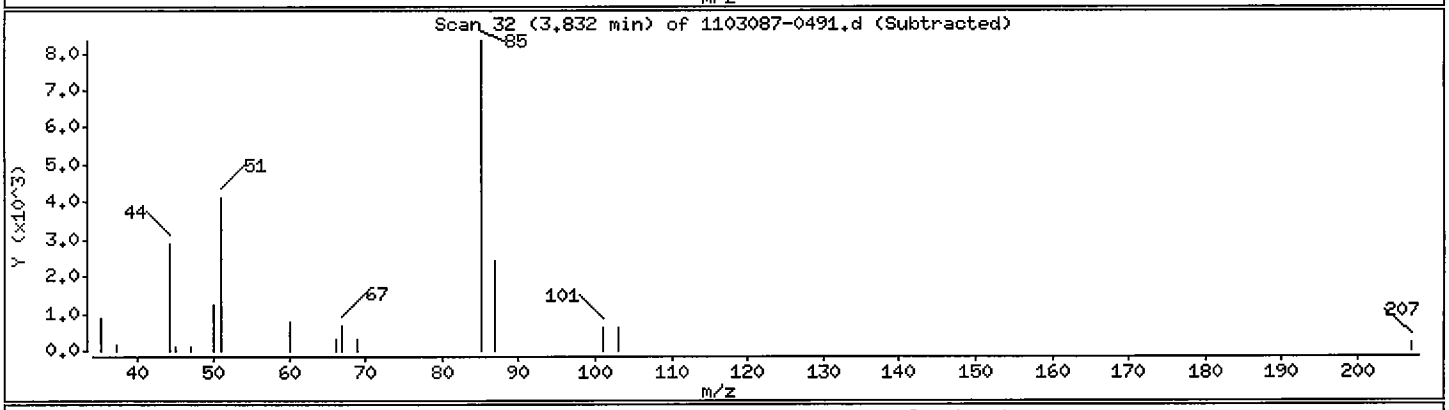
Sample Info: 1103087-04:TD

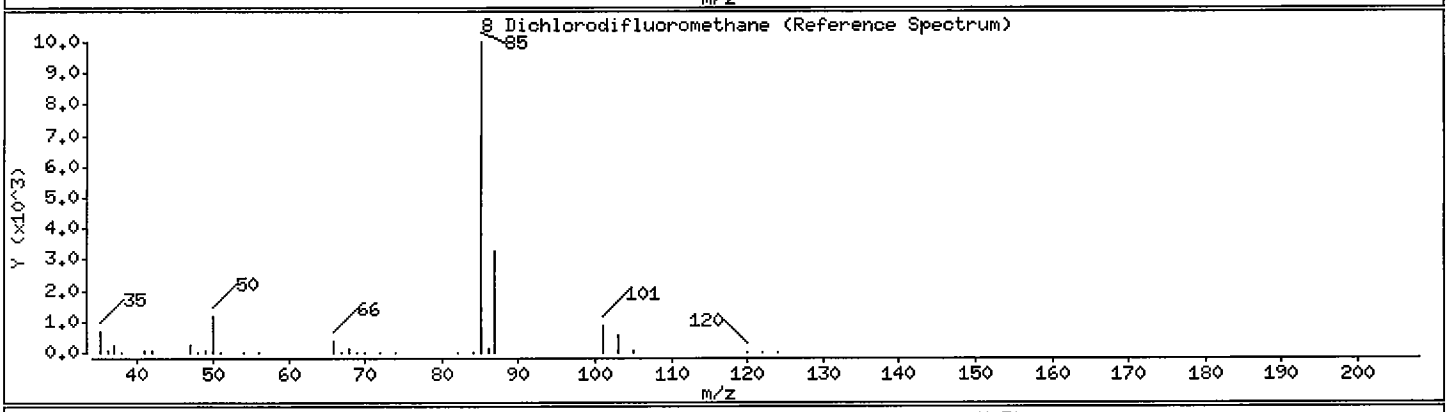
Purge Volume: 25.0 | Operator: TD

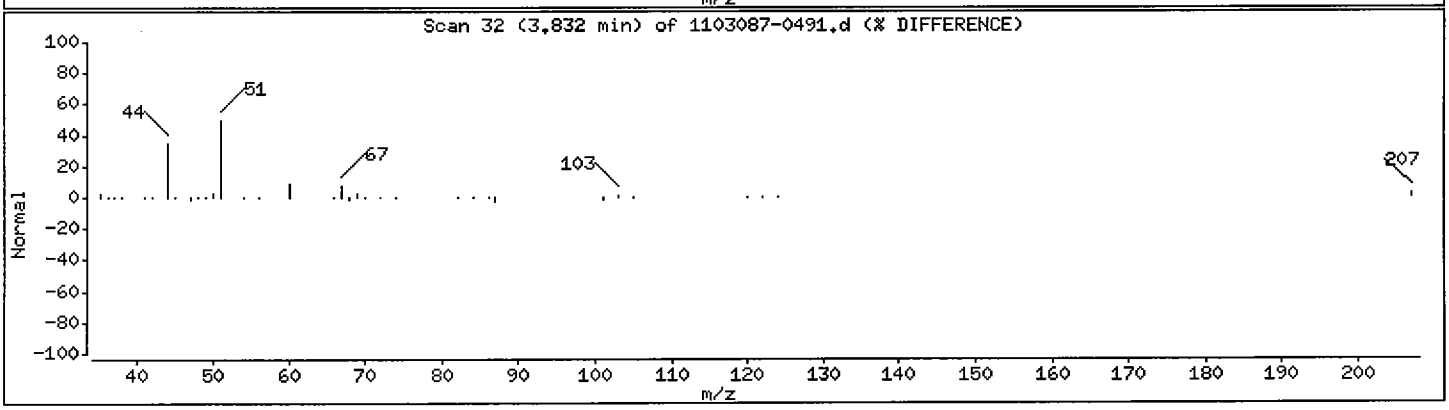
Column phase: SPB-624 | Column diameter: 0.32

8 Dichlorodifluoromethane | Concentration: 0.49 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

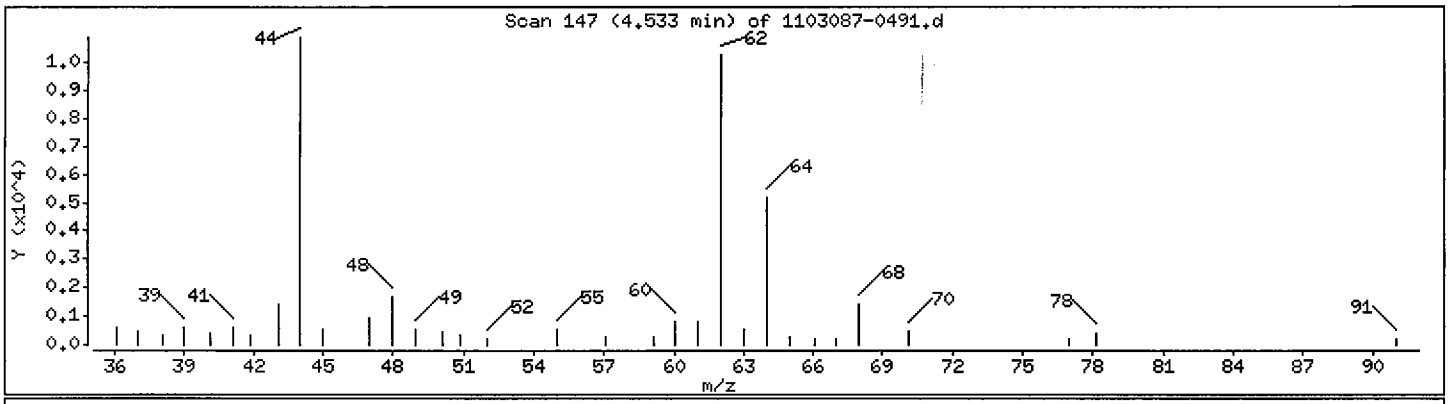
Client ID: MW-9 | Instrument: 5975hpms91.i

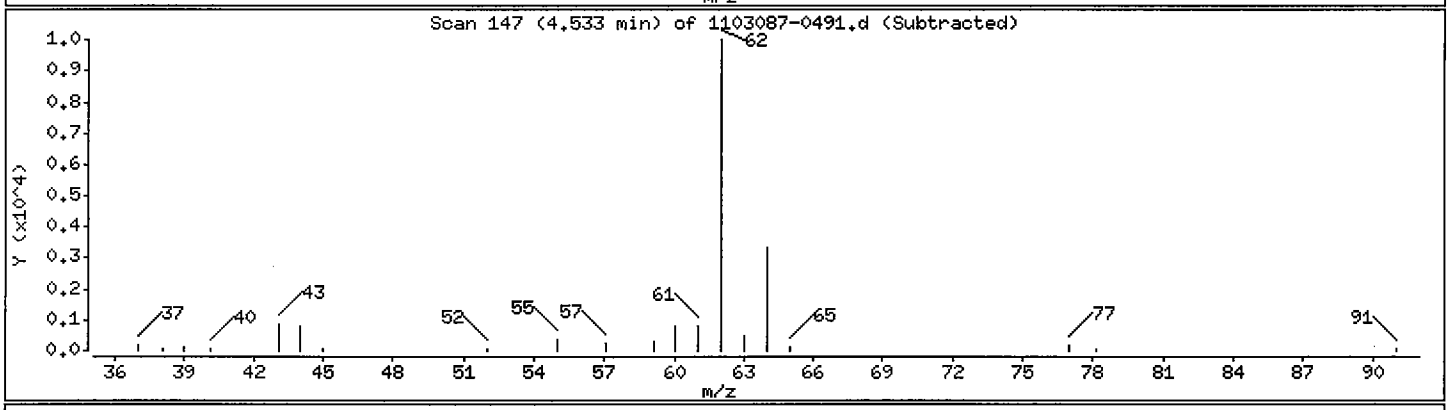
Sample Info: 1103087-04:TD

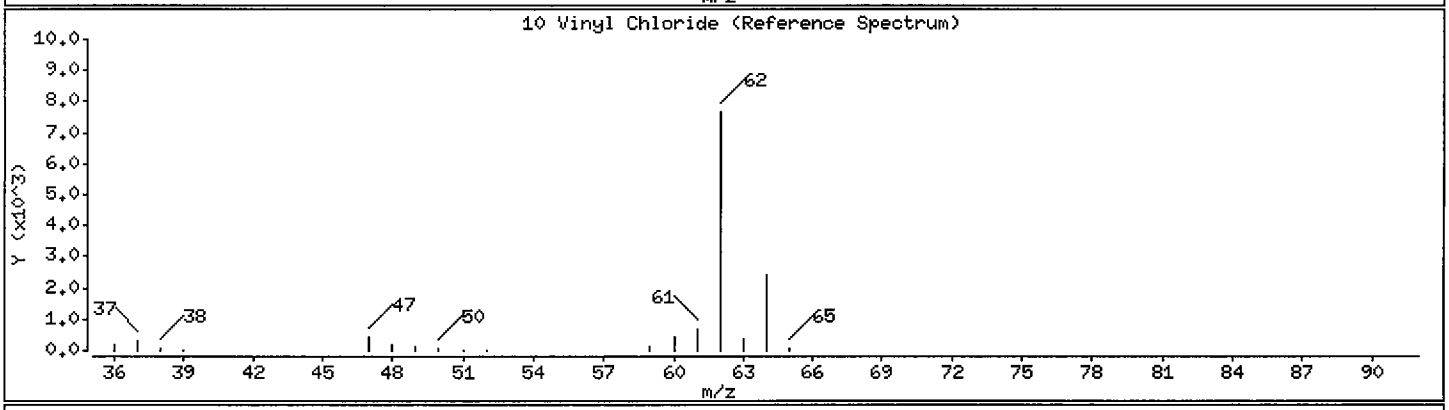
Purge Volume: 25.0 | Operator: TD

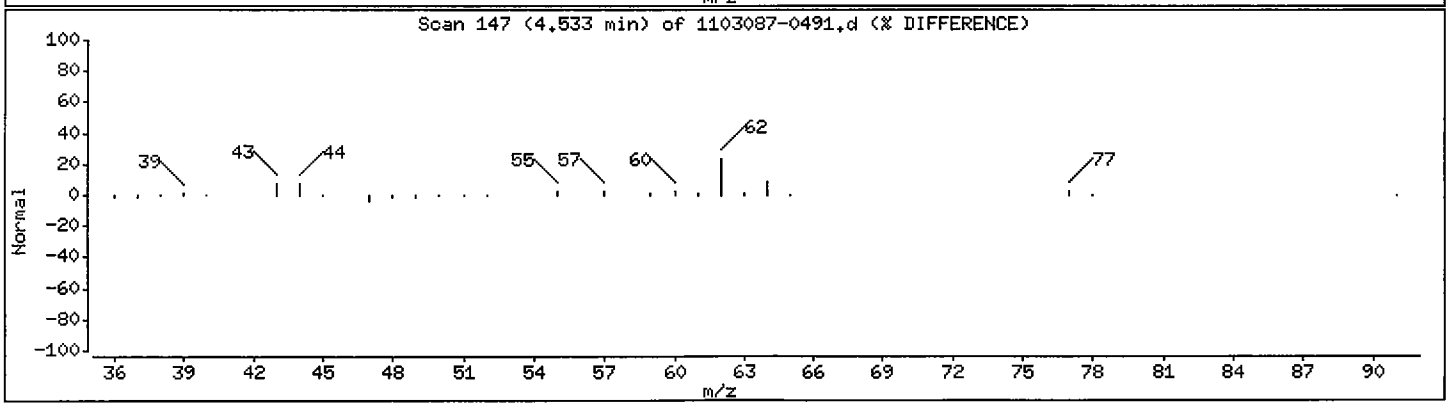
Column phase: SPB-624 | Column diameter: 0.32

10 Vinyl Chloride | Concentration: 1.2 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

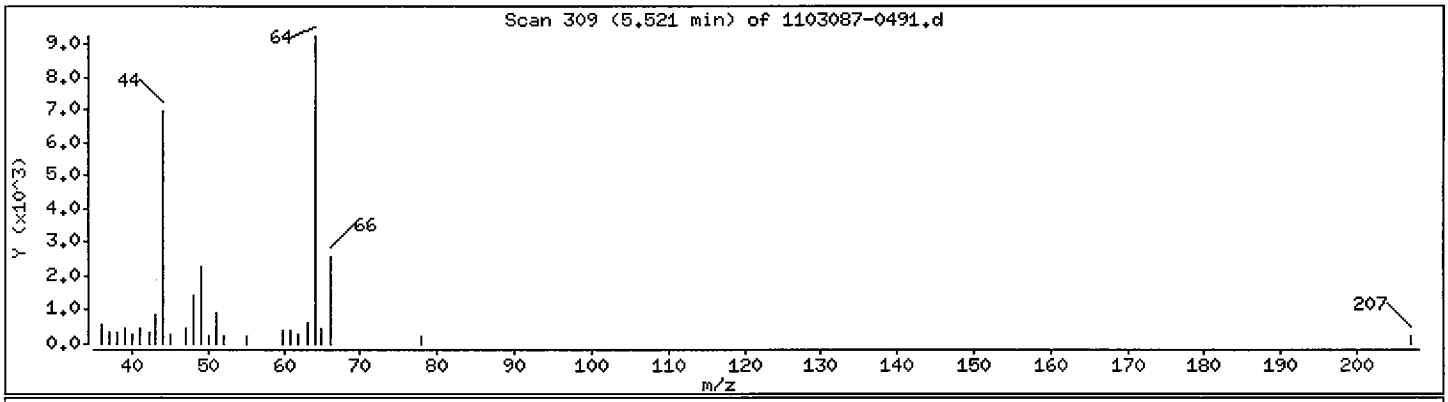
Client ID: MW-9 Instrument: 5975hpms91.i

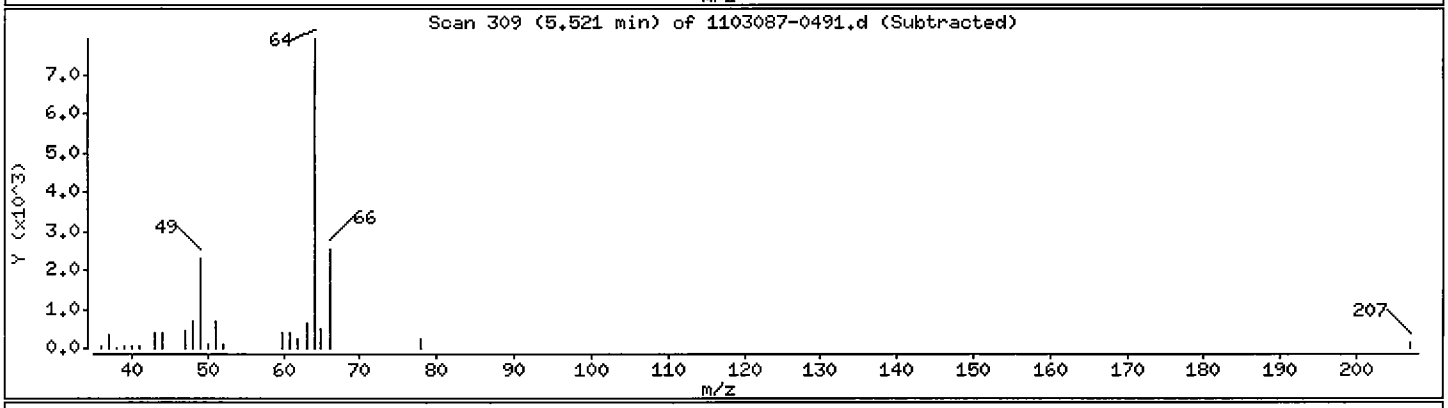
Sample Info: 1103087-04:TD

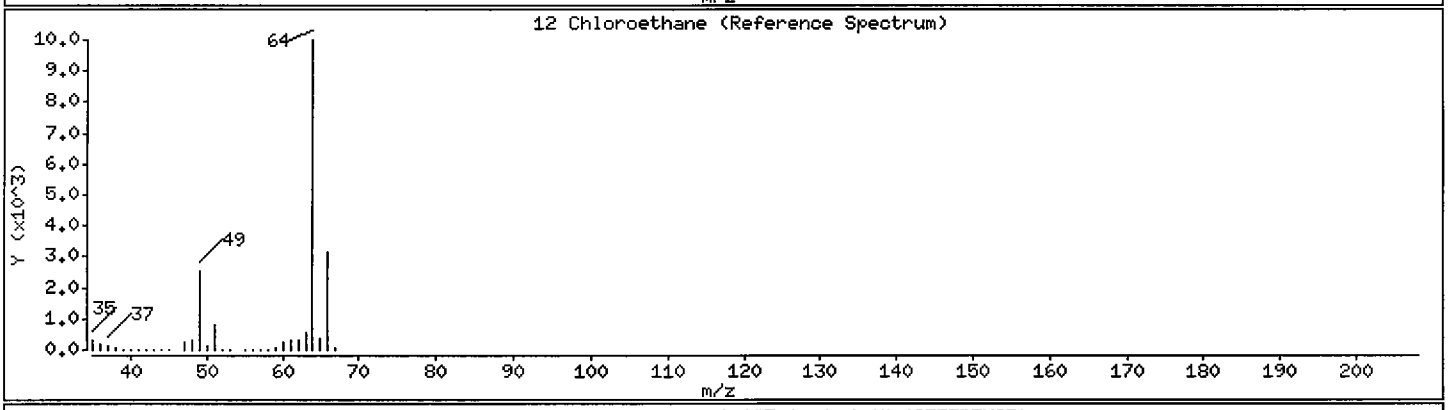
Purge Volume: 25.0 Operator: TD

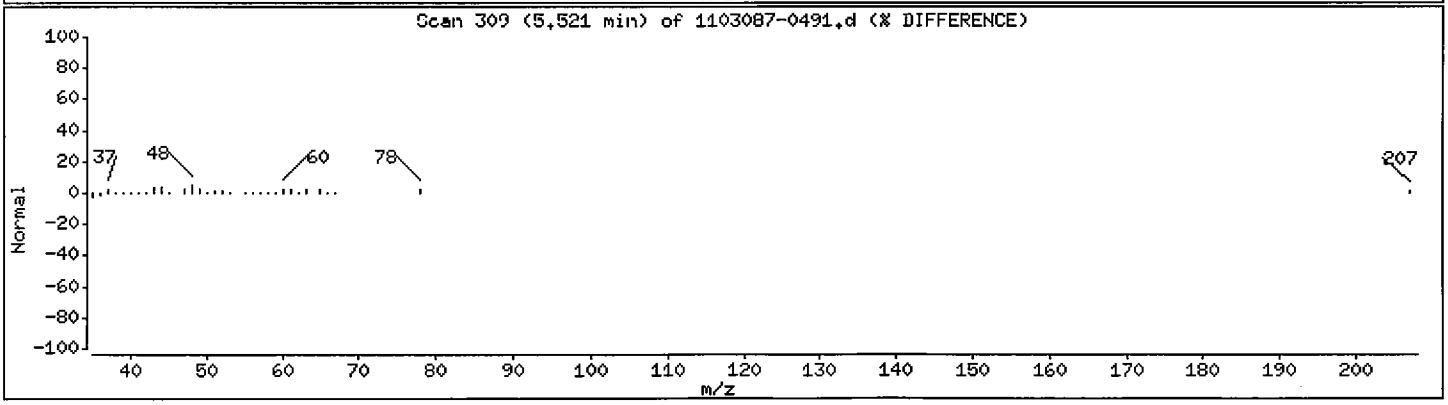
Column phase: SPB-624 Column diameter: 0.32

12 Chloroethane Concentration: 1.9 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

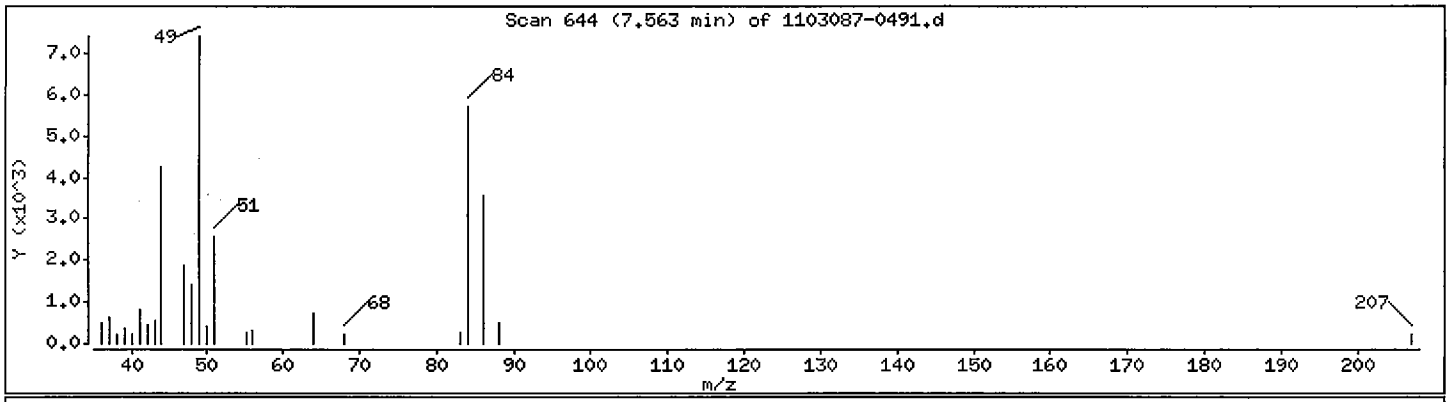
Client ID: MW-9 | Instrument: 5975hpms91.i

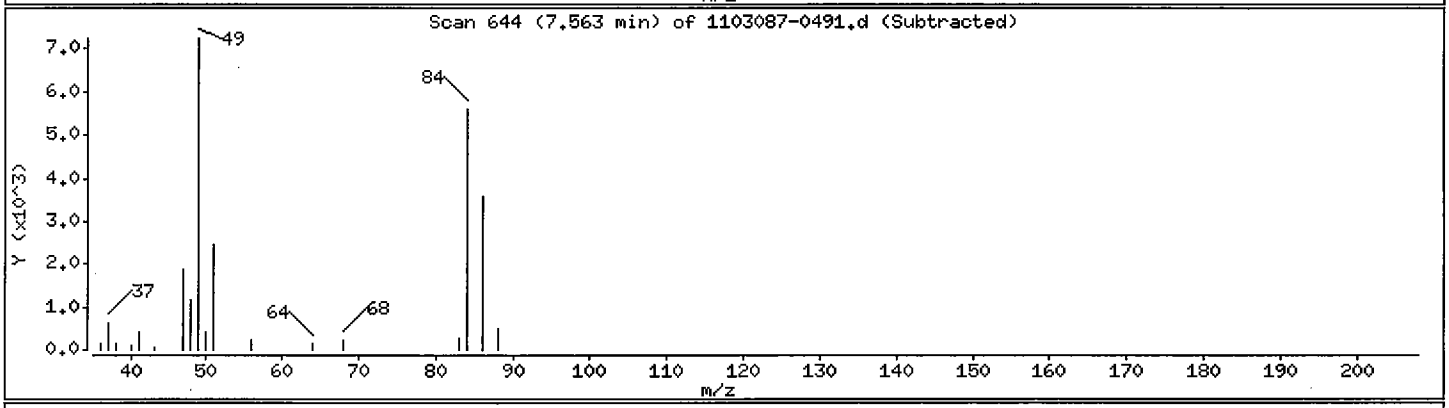
Sample Info: 1103087-04:TD

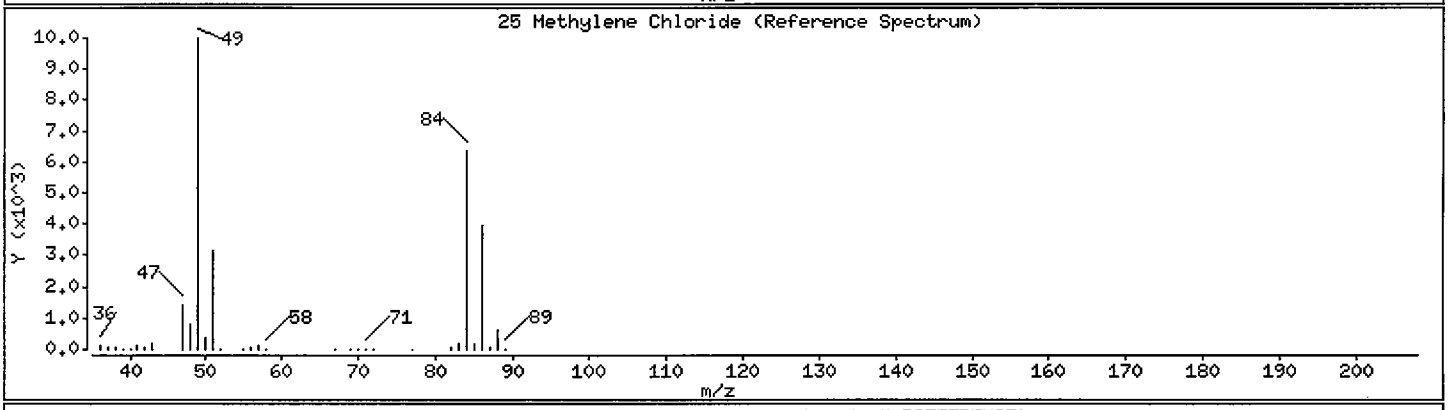
Purge Volume: 25.0 | Operator: TD

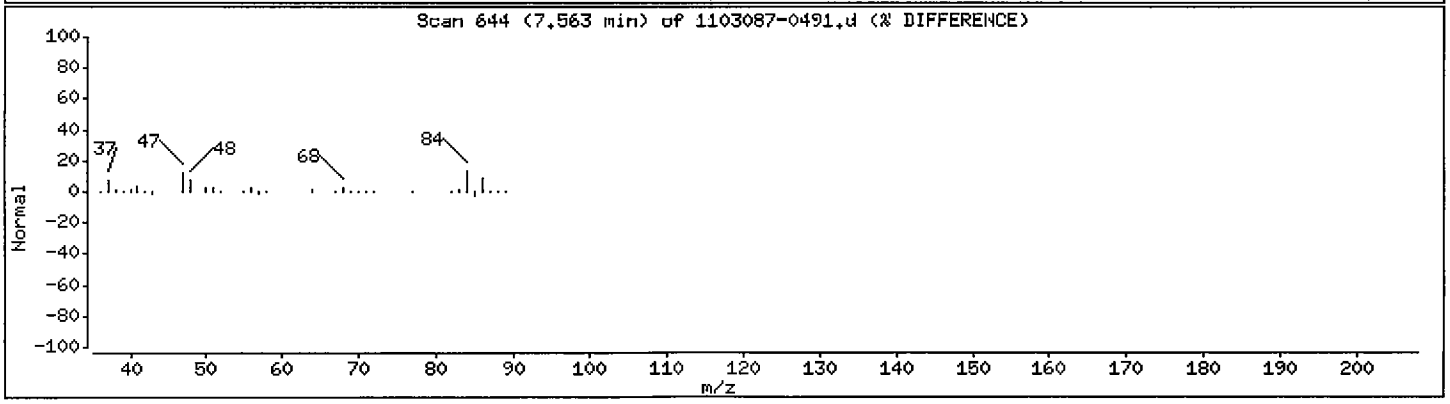
Column phase: SPB-624 | Column diameter: 0.32

25 Methylene Chloride | Concentration: 0.47 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

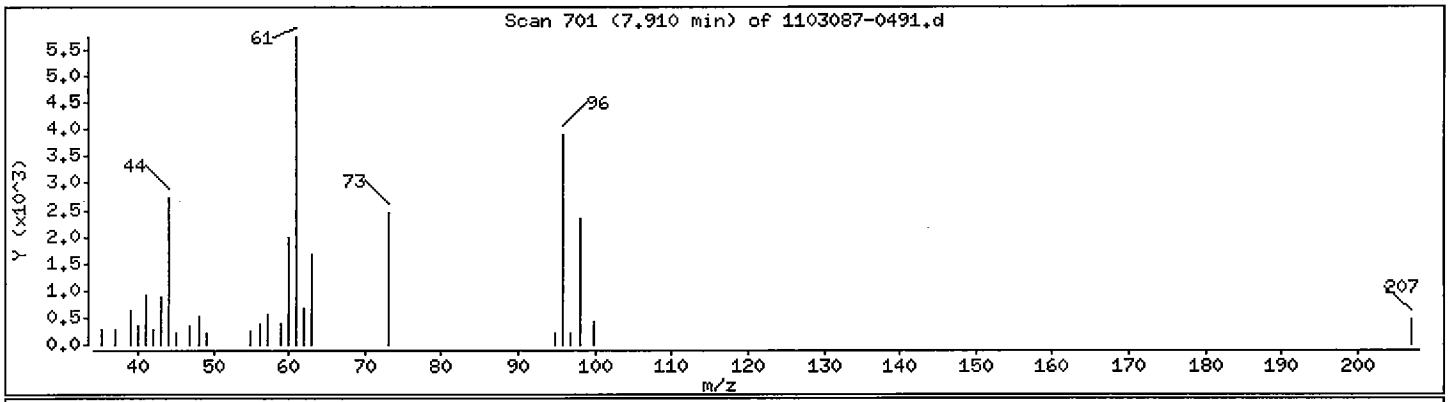
Client ID: MW-9 Instrument: 5975hpms91.i

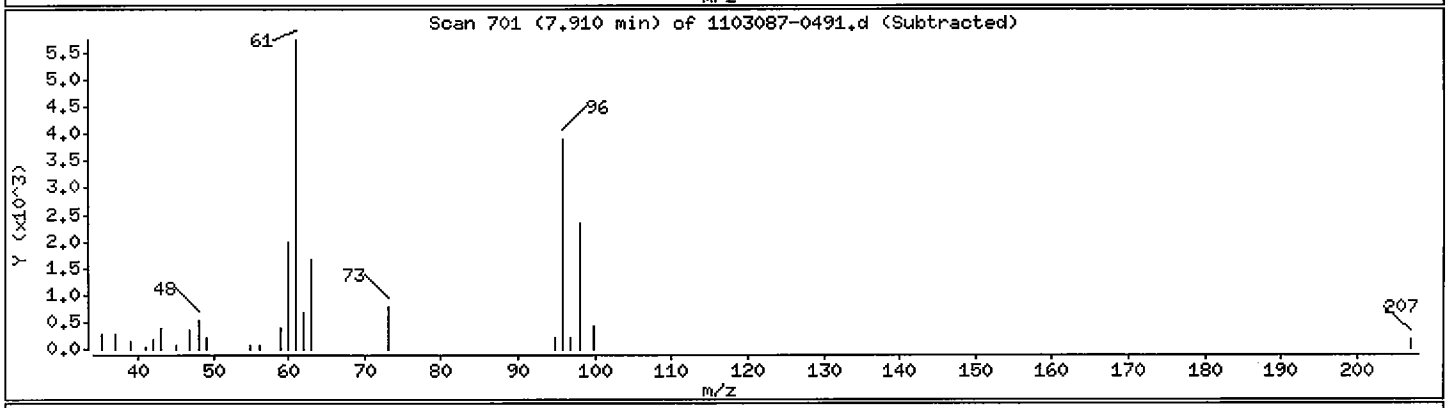
Sample Info: 1103087-04:TD

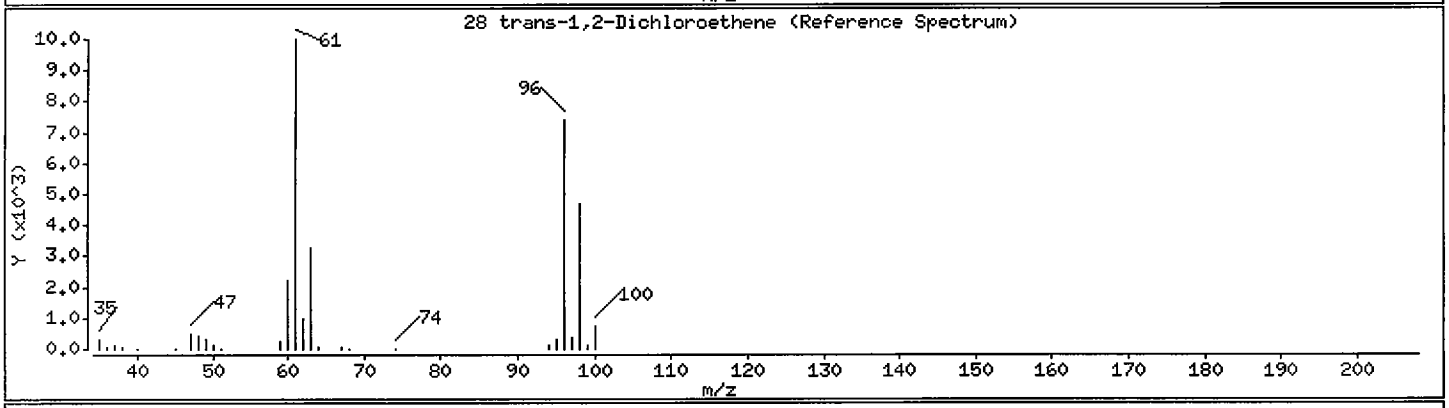
Purge Volume: 25.0 Operator: TD

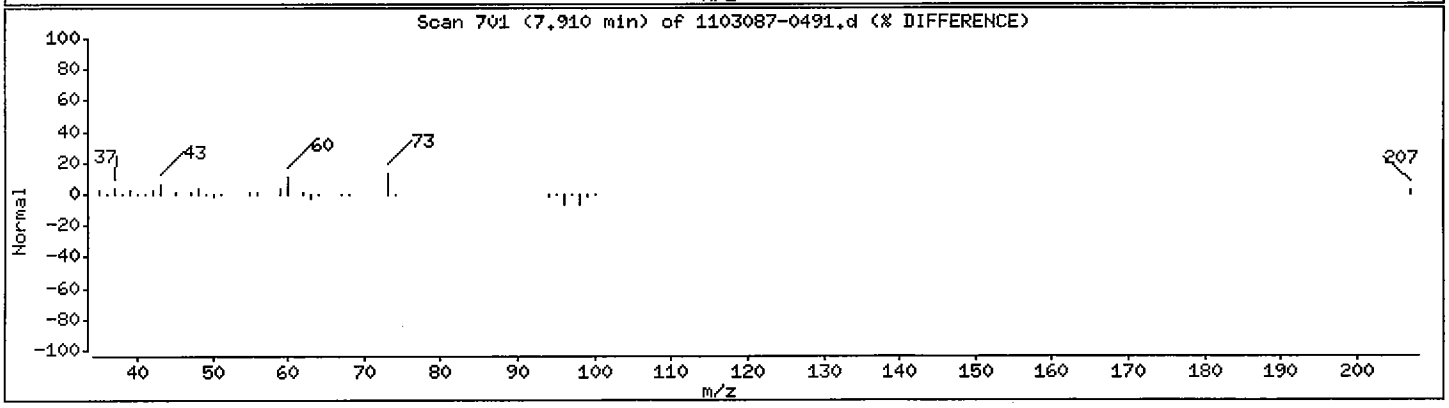
Column phase: SPB-624 Column diameter: 0.32

28 trans-1,2-Dichloroethene Concentration: 0.24 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

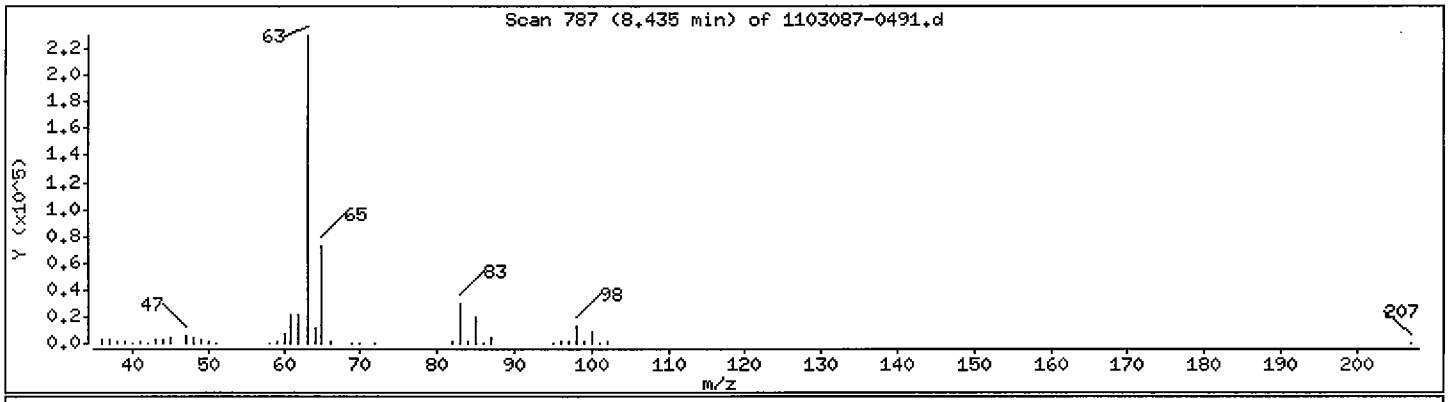
Client ID: MW-9 Instrument: 5975hpms91.i

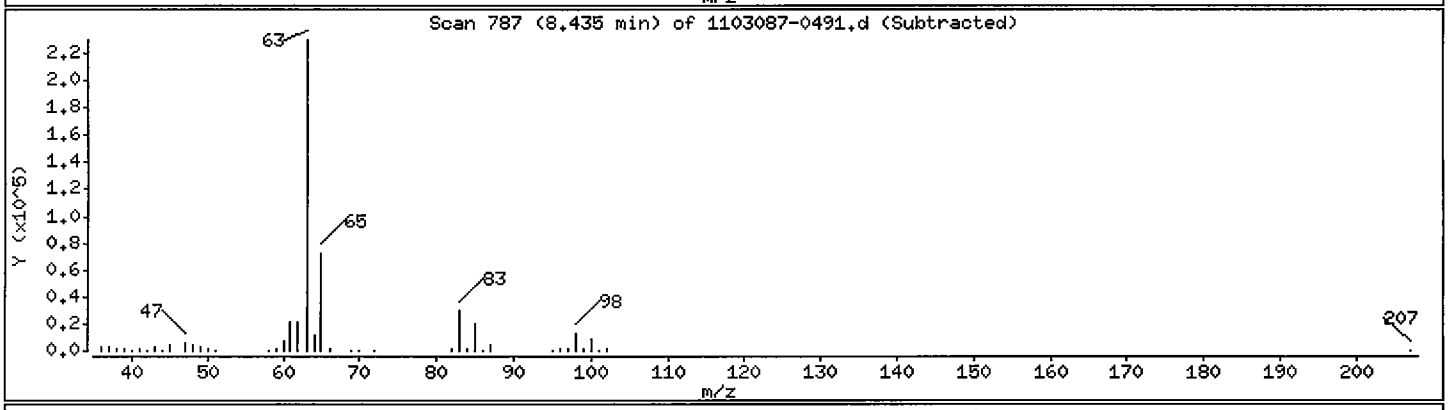
Sample Info: 1103087-04:TD

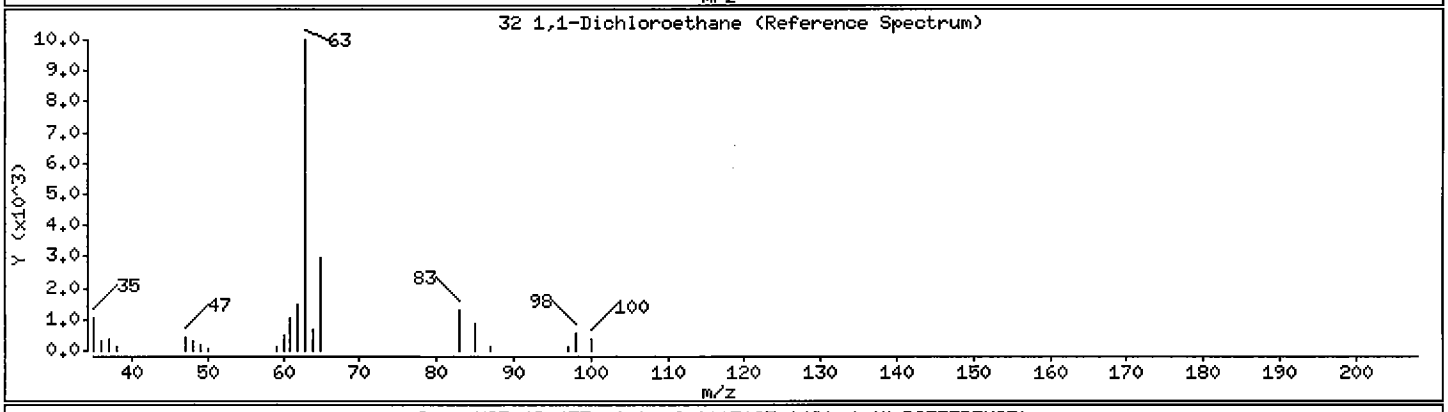
Purge Volume: 25.0 Operator: TD

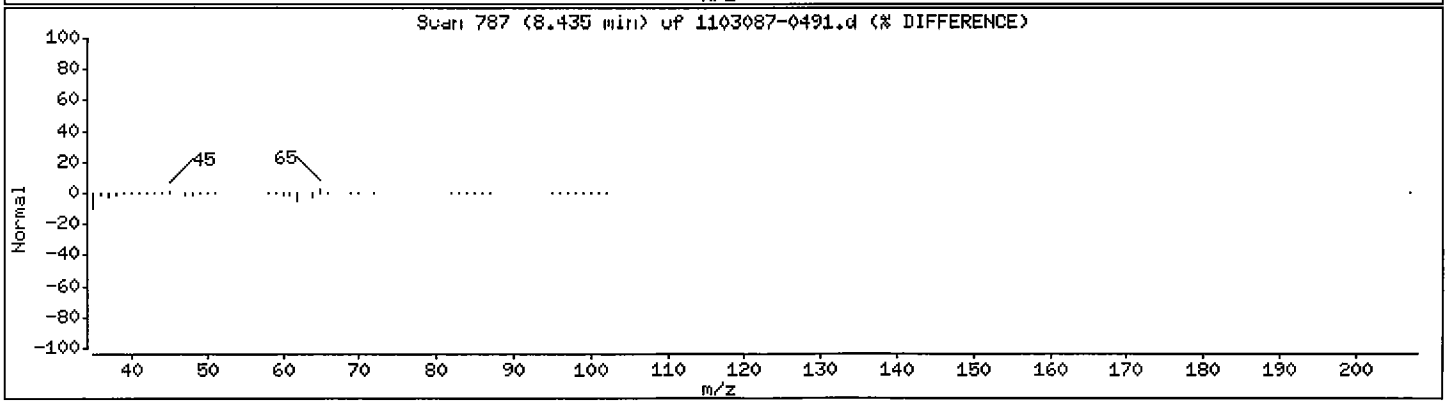
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 7.7 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

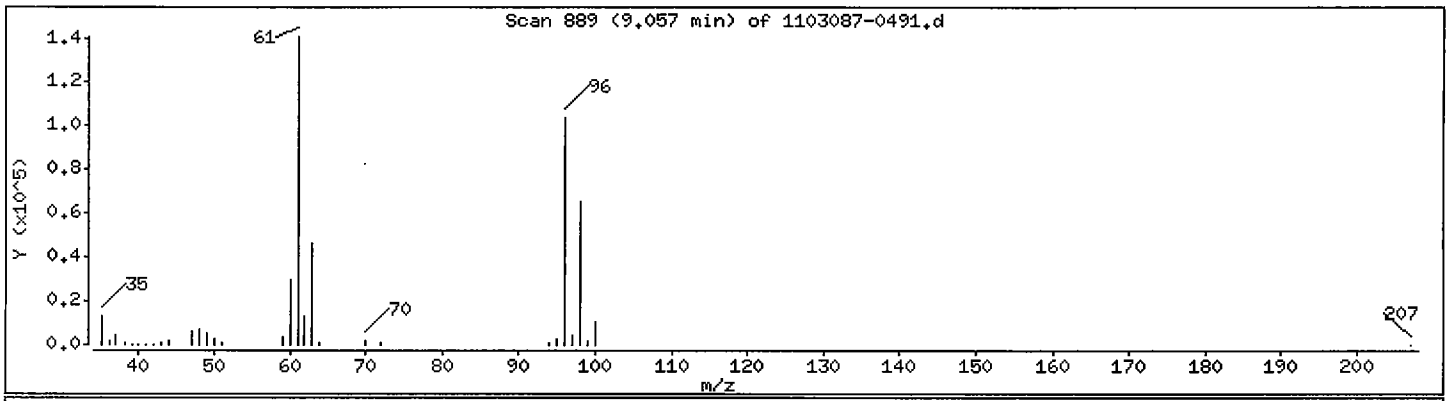
Client ID: MW-9 | Instrument: 5975hpms91.i

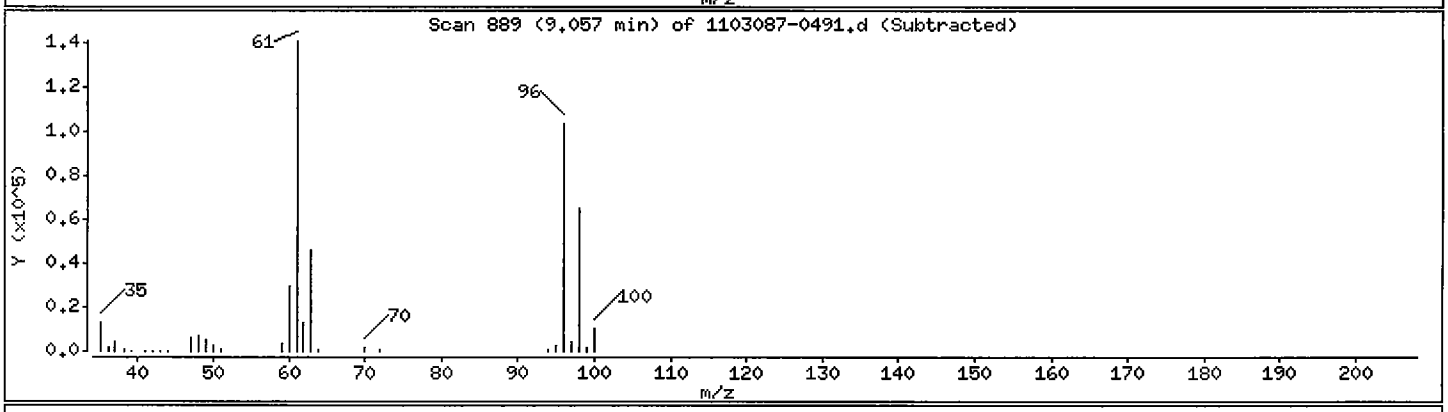
Sample Info: 1103087-04:TD

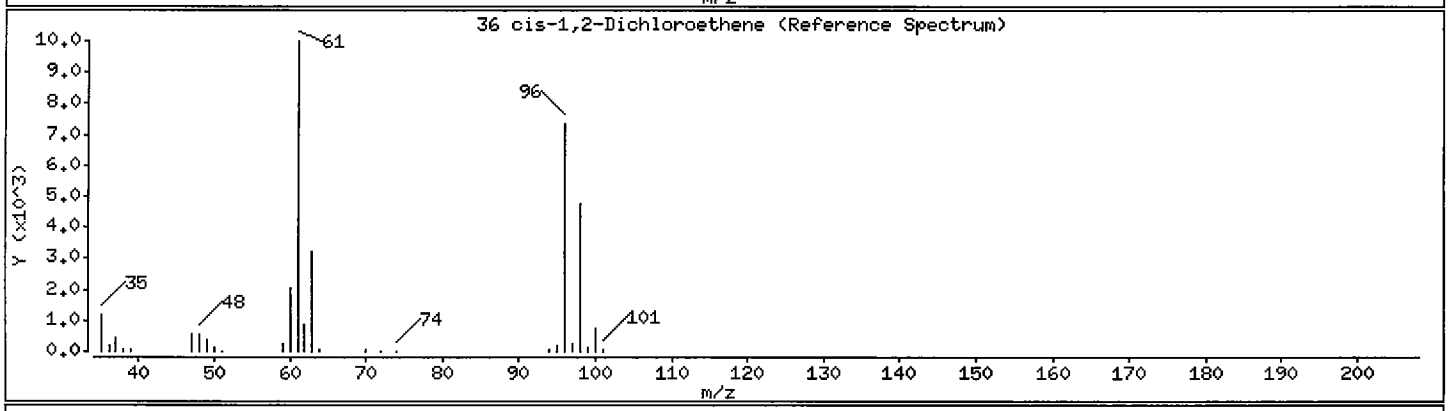
Purge Volume: 25.0 | Operator: TD

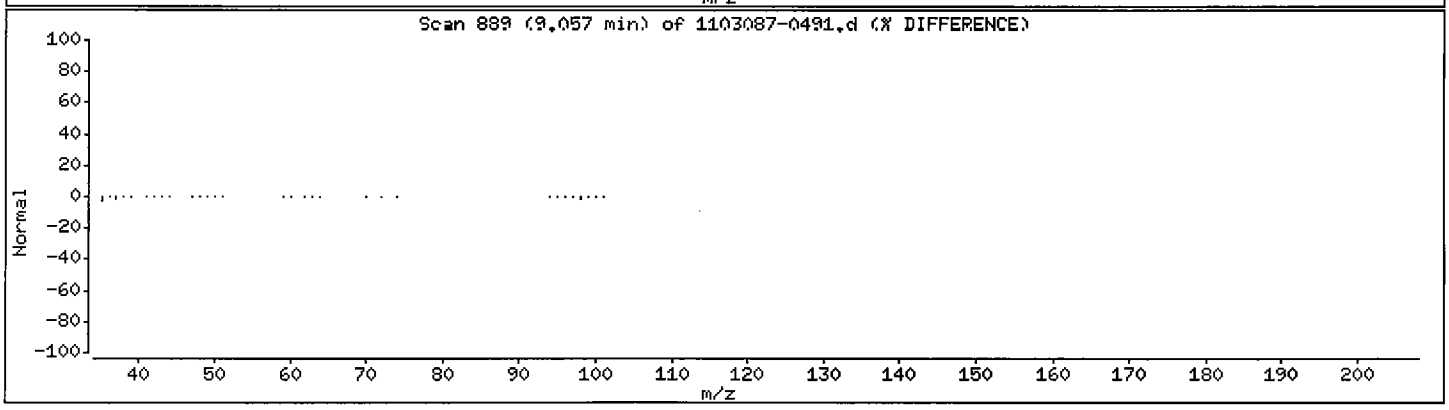
Column phase: SPB-624 | Column diameter: 0.32

36 cis-1,2-Dichloroethene | Concentration: 5.2 ug/L









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Date : 18-MAR-2011 21:52

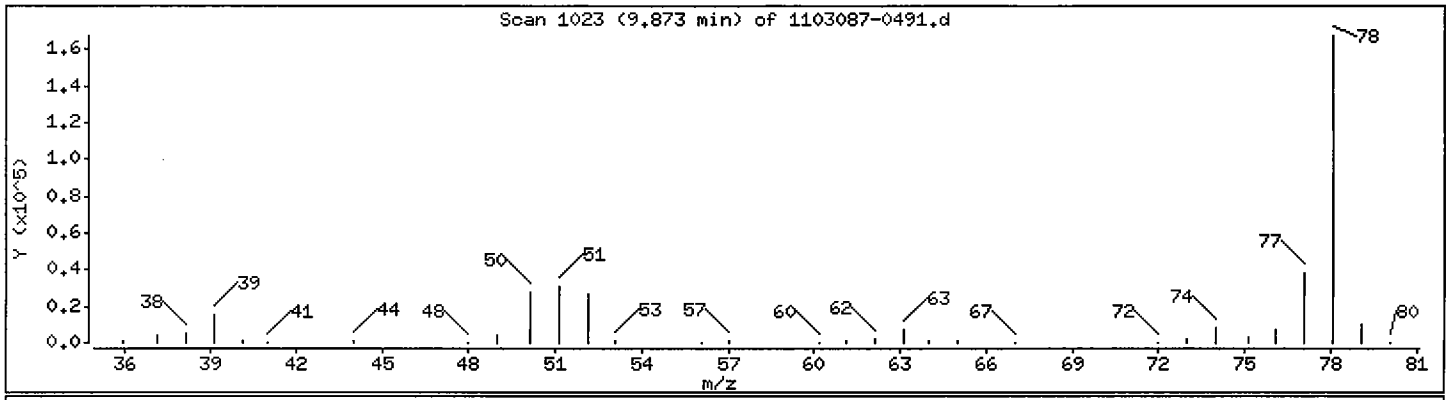
Client ID: MW-9 | Instrument: 5975hpms91.i

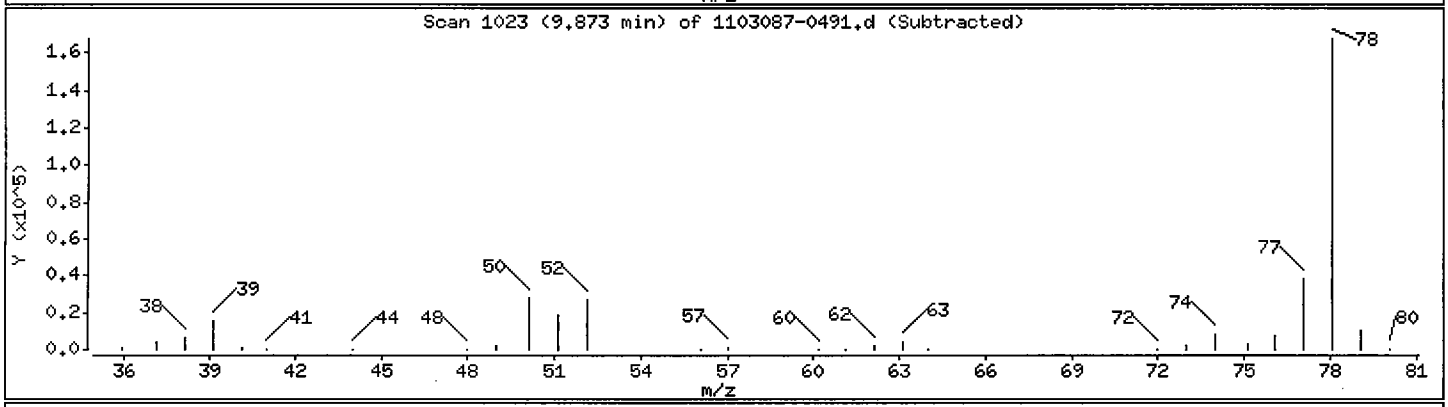
Sample Info: 1103087-04:TD

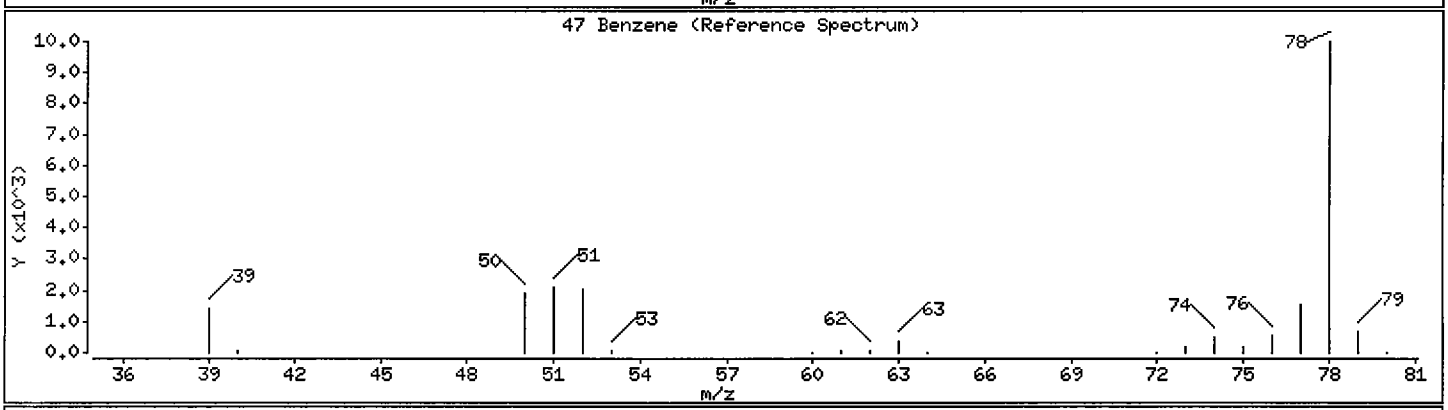
Purge Volume: 25.0 | Operator: TD

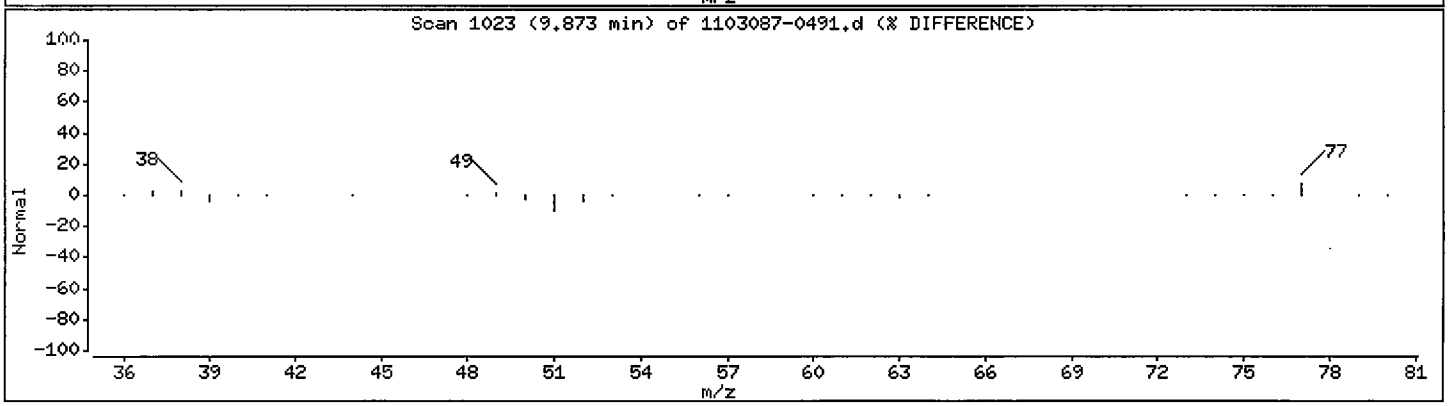
Column phase: SPB-624 | Column diameter: 0.32

47 Benzene | Concentration: 2.0 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

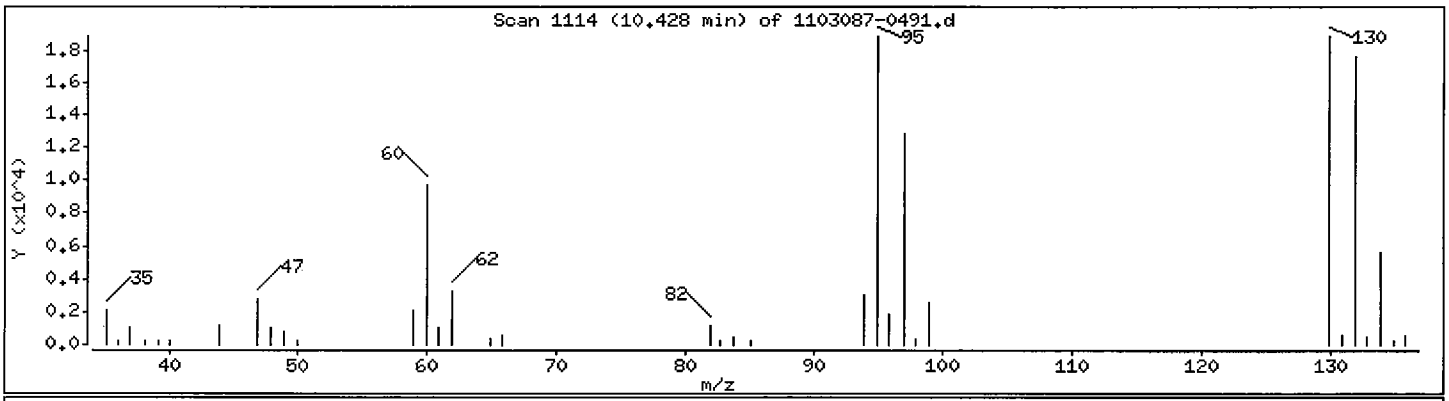
Client ID: MW-9 Instrument: 5975hpms91.i

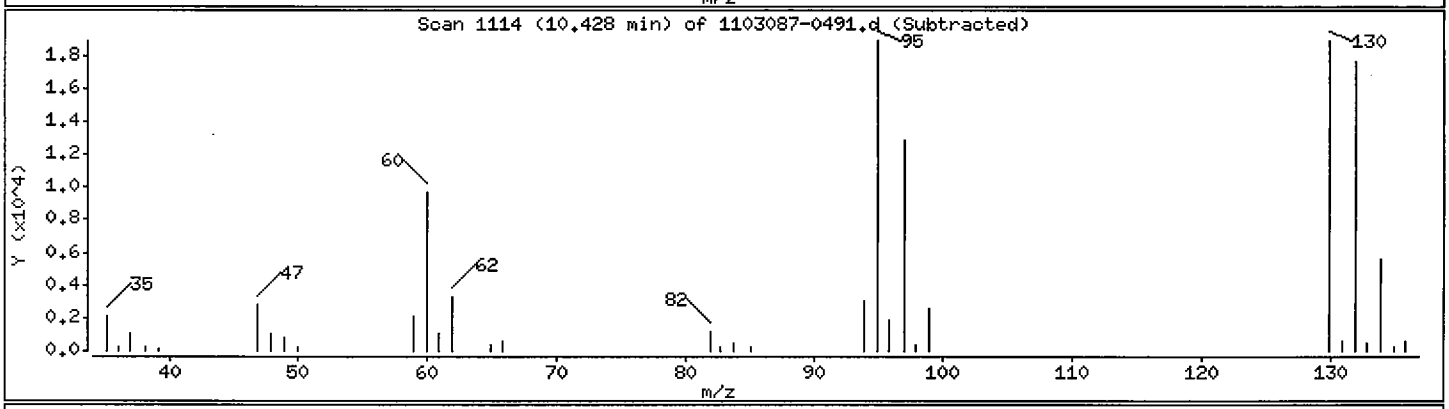
Sample Info: 1103087-04:TD

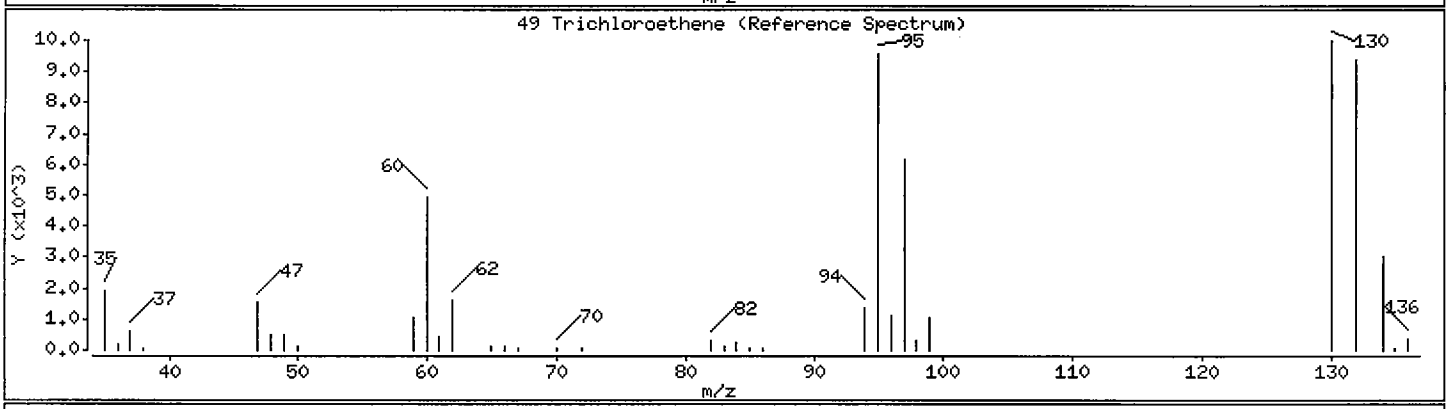
Purge Volume: 25.0 Operator: TD

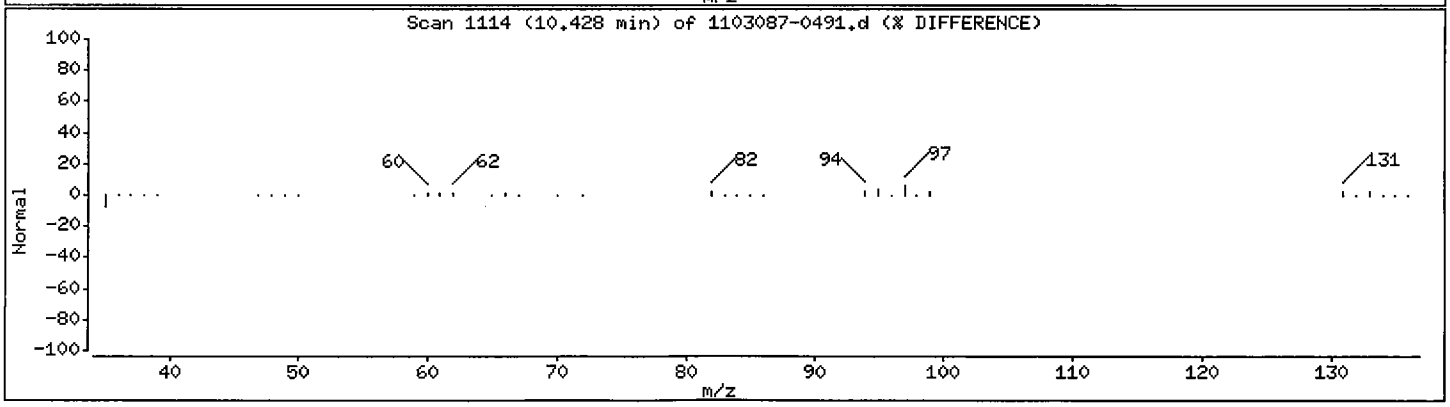
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 0.83 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

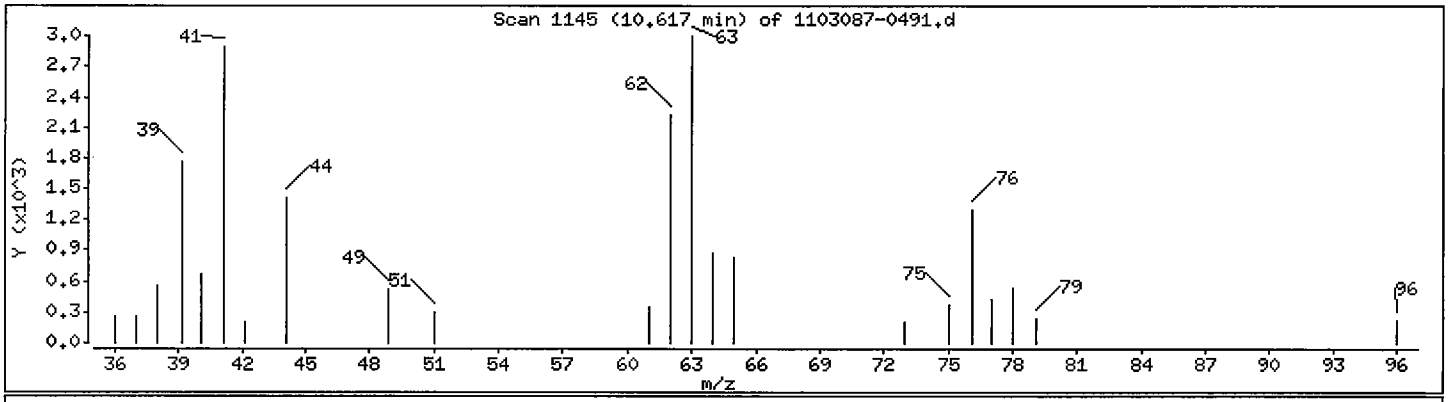
Client ID: MW-9 Instrument: 5975hpms91.i

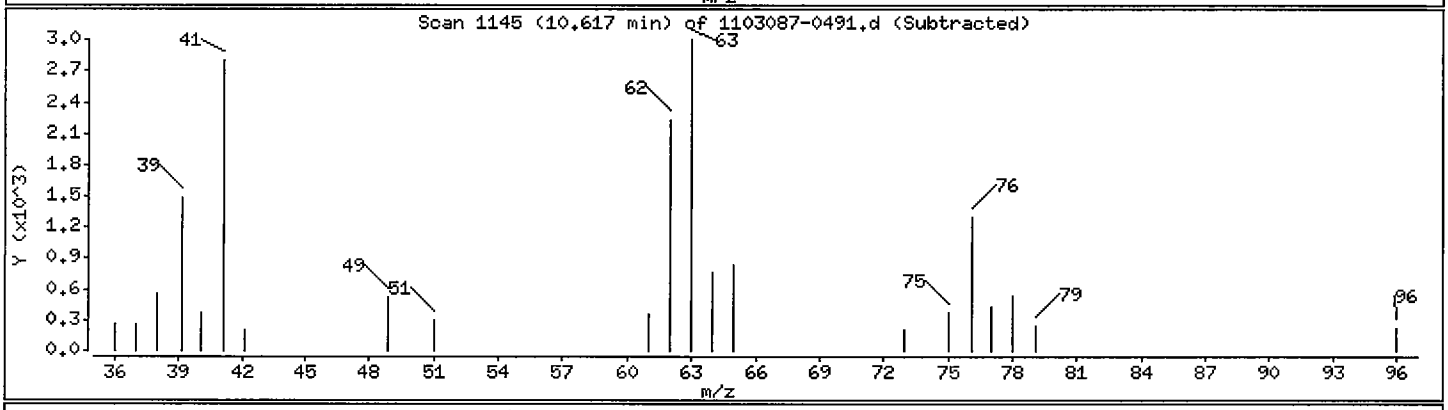
Sample Info: 1103087-04:TD

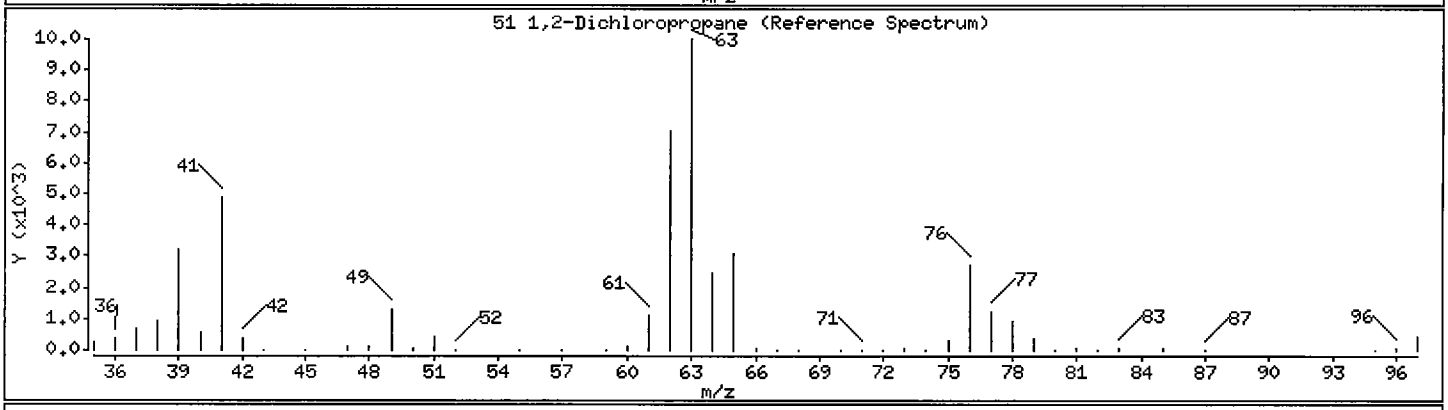
Purge Volume: 25.0 Operator: TD

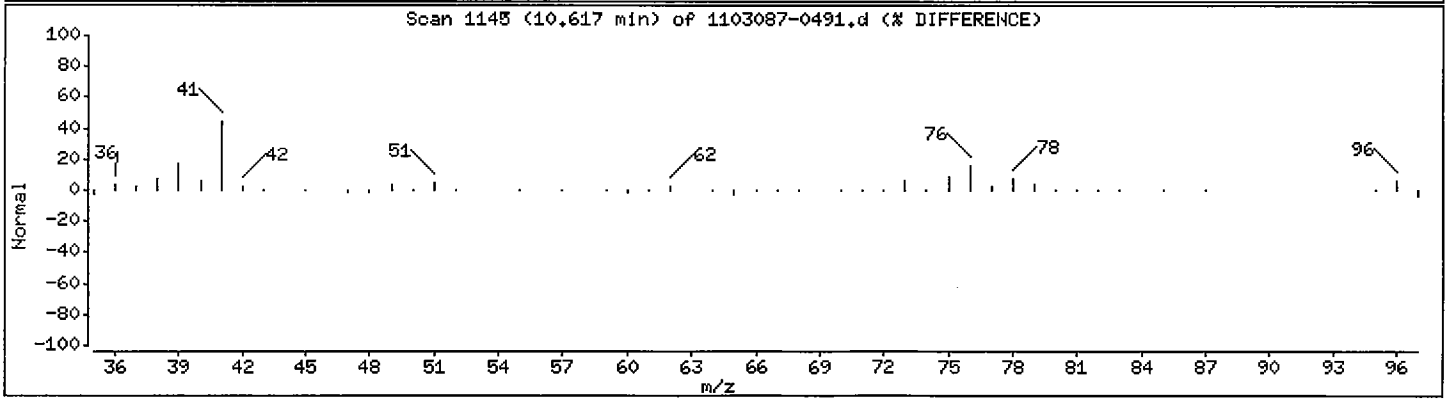
Column phase: SPB-624 Column diameter: 0.32

51 1,2-Dichloropropane Concentration: 0.15 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

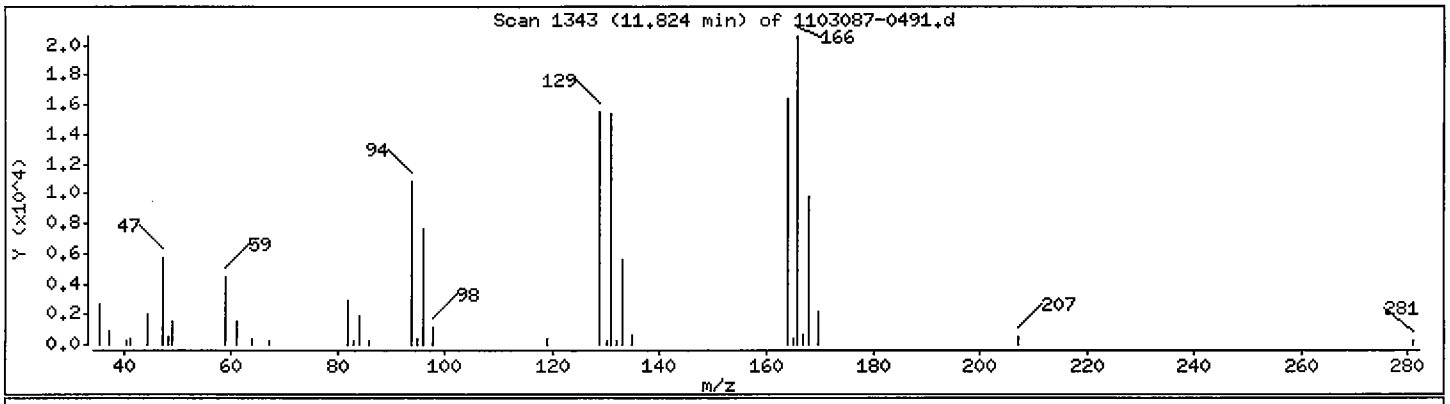
Client ID: MW-9 | Instrument: 5975hpms91.i

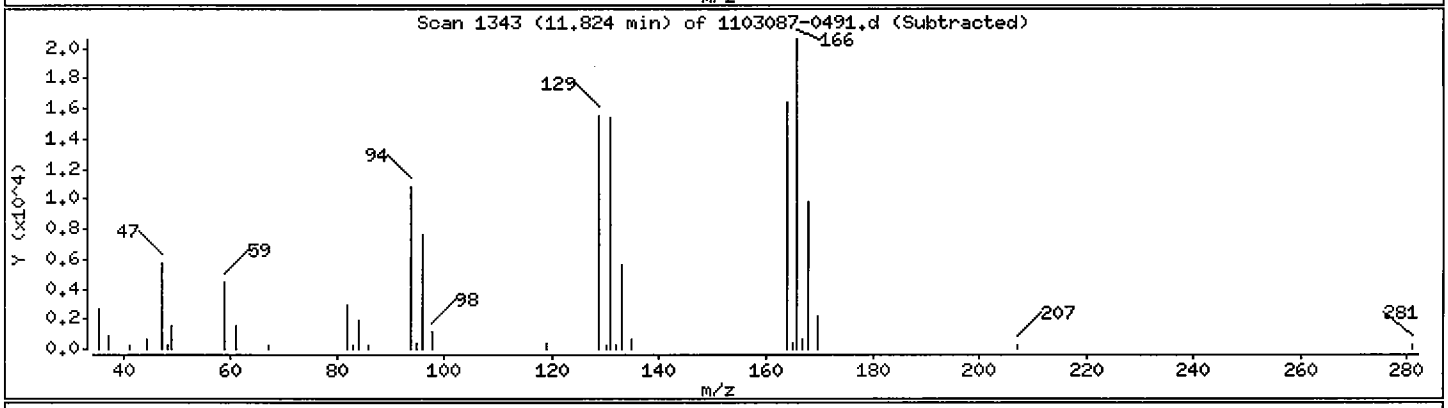
Sample Info: 1103087-04:TD

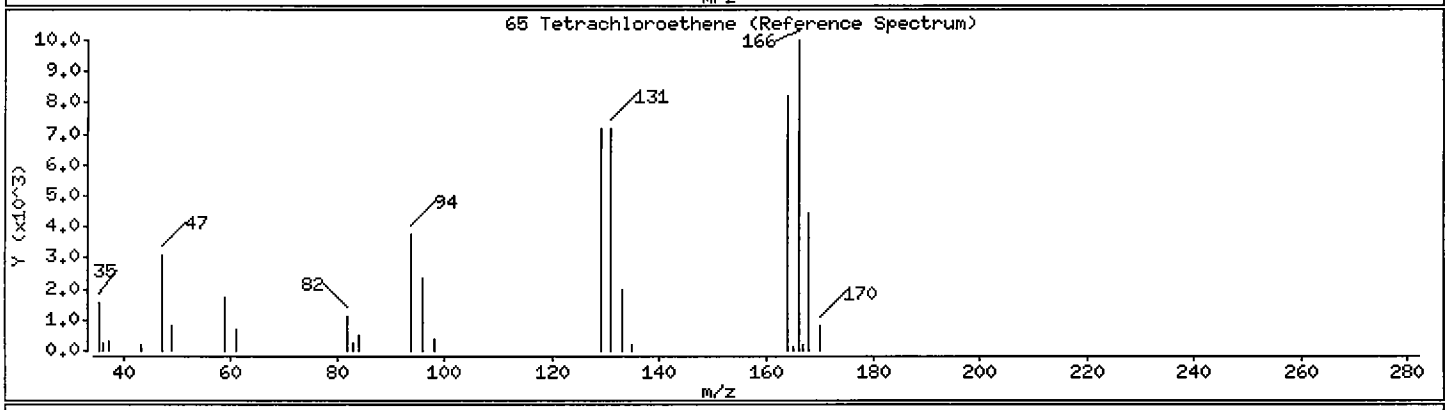
Purge Volume: 25.0 | Operator: TD

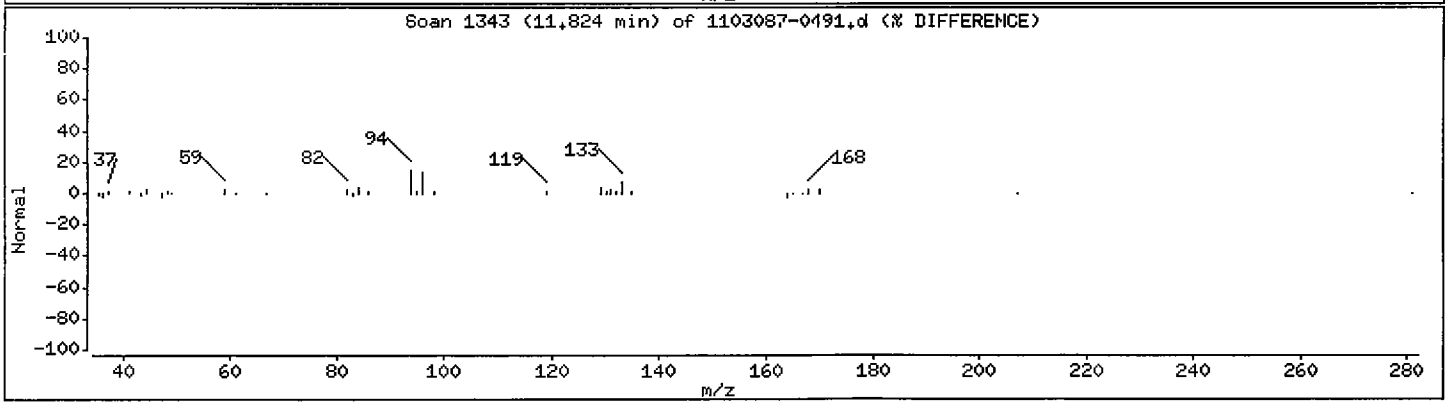
Column phase: SPB-624 | Column diameter: 0.32

65 Tetrachloroethene | Concentration: 0.56 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

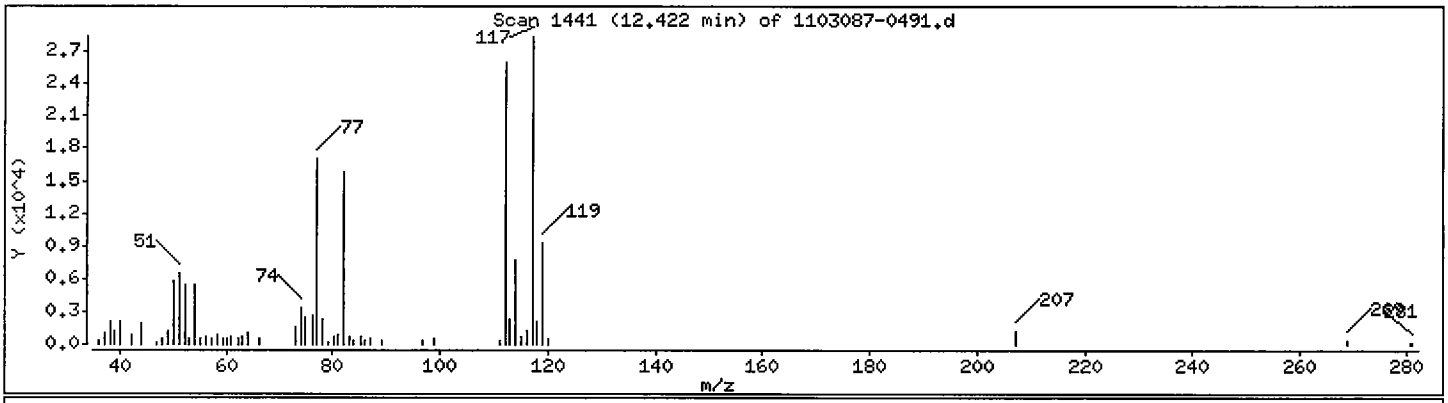
Client ID: MW-9 | Instrument: 5975hpms91.i

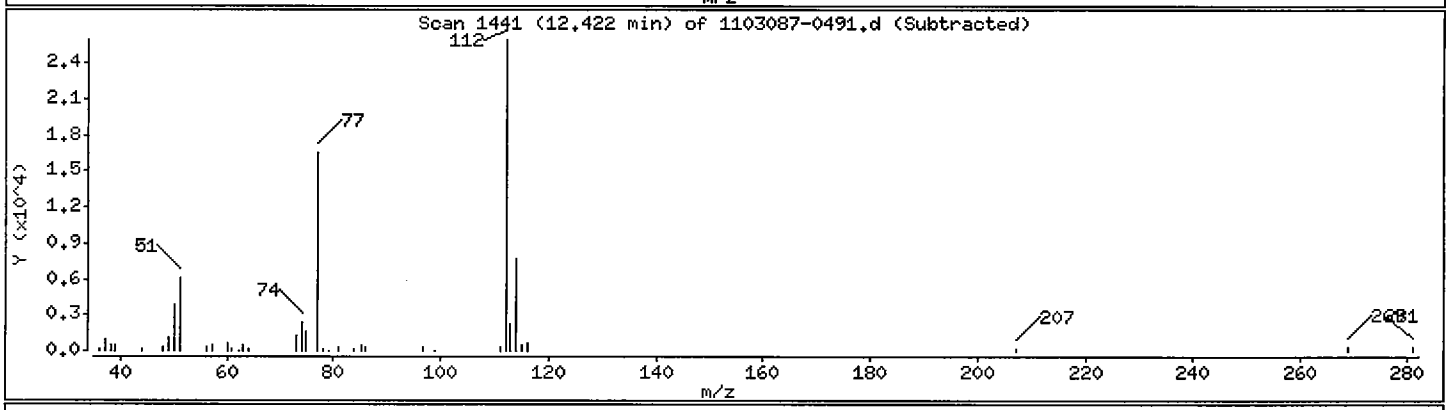
Sample Info: 1103087-04:TD

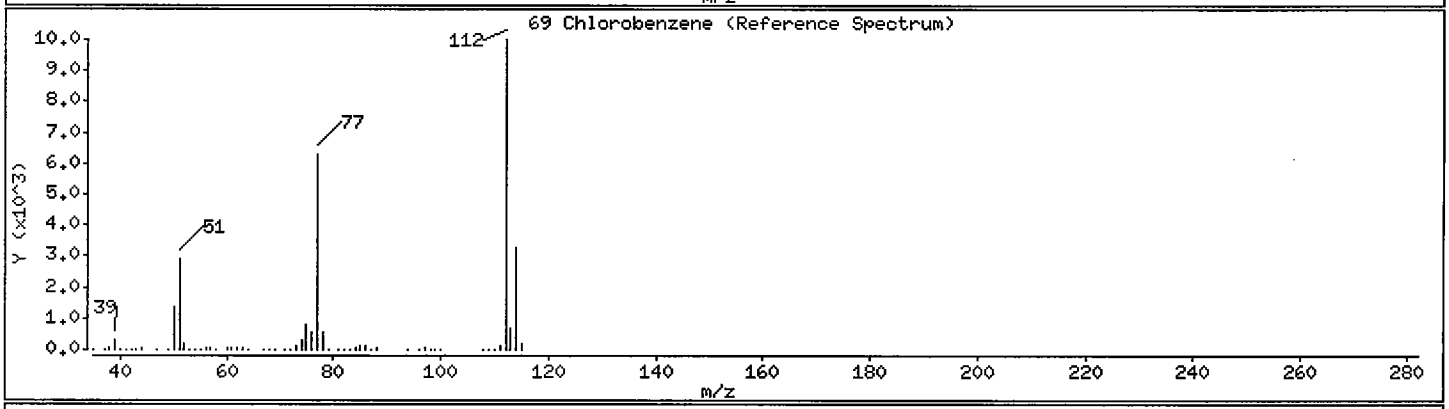
Purge Volume: 25.0 | Operator: TD

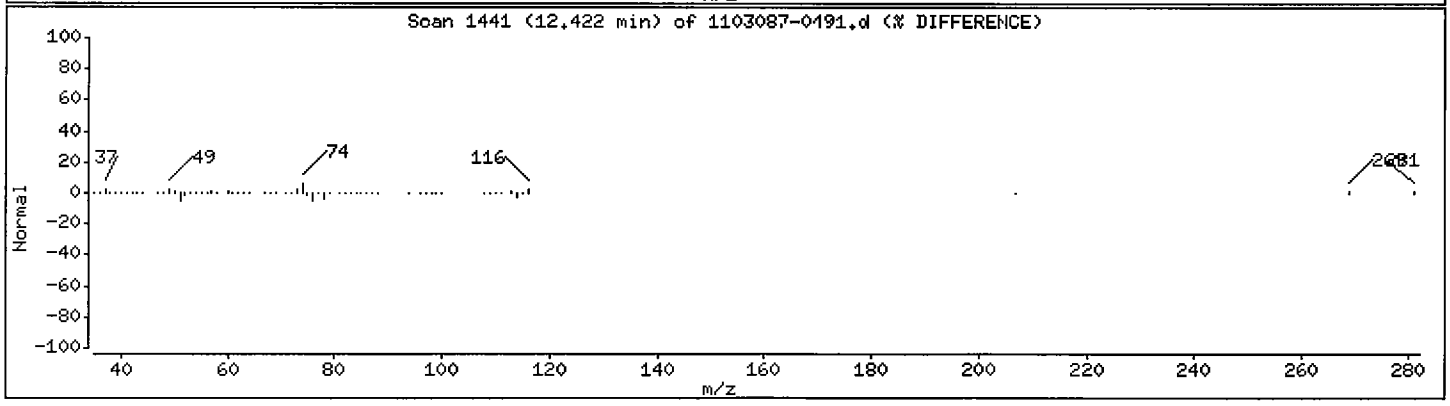
Column phase: SPB-624 | Column diameter: 0.32

69 Chlorobenzene | Concentration: 0.37 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

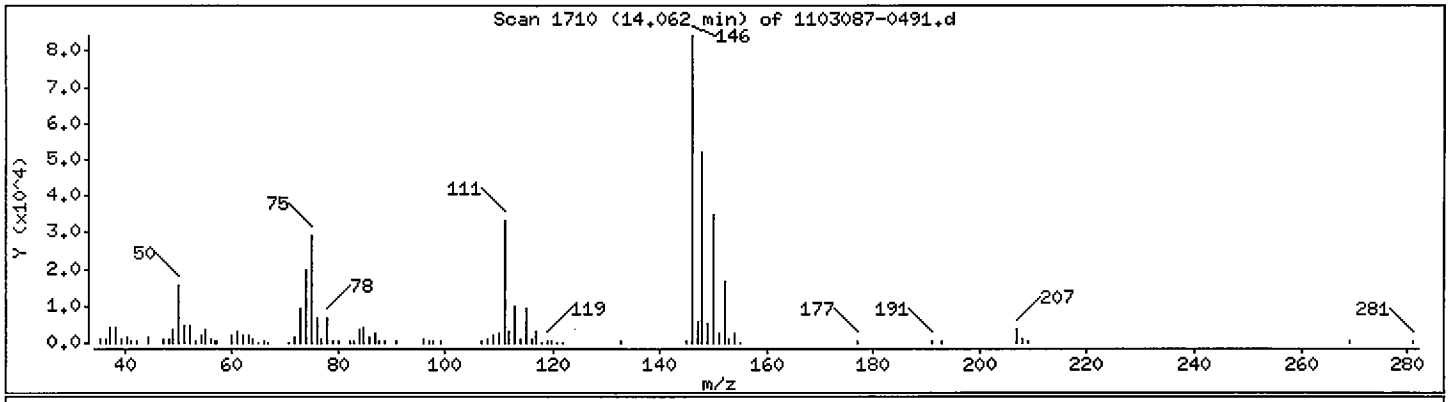
Client ID: MW-9 Instrument: 5975hpms91.i

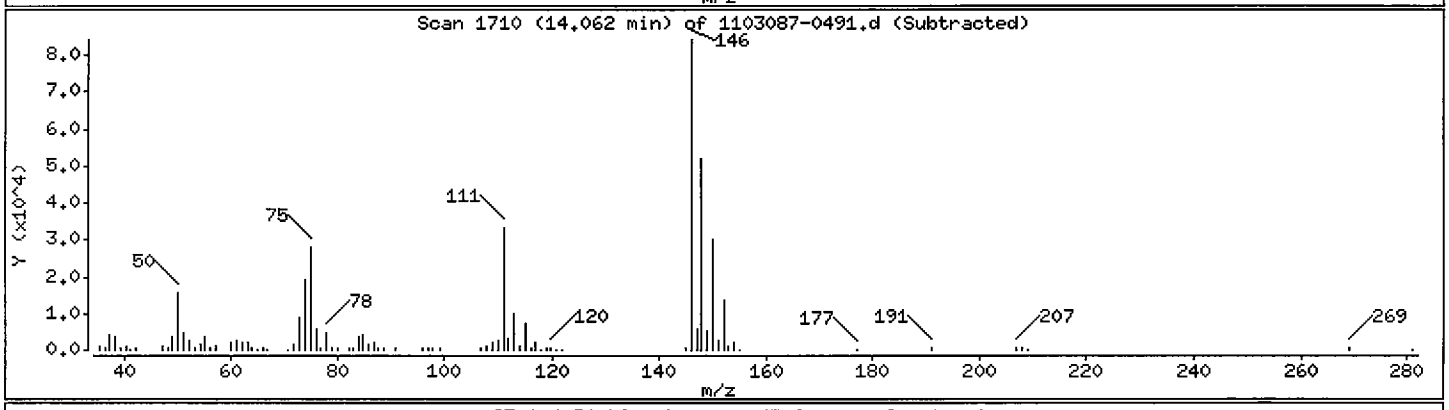
Sample Info: 1103087-04:TD

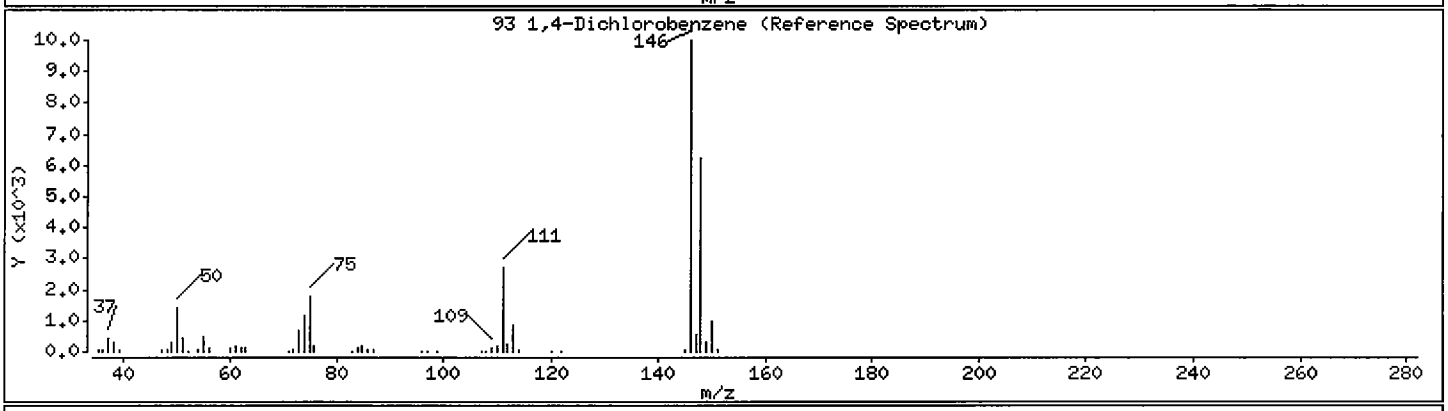
Purge Volume: 25.0 Operator: TD

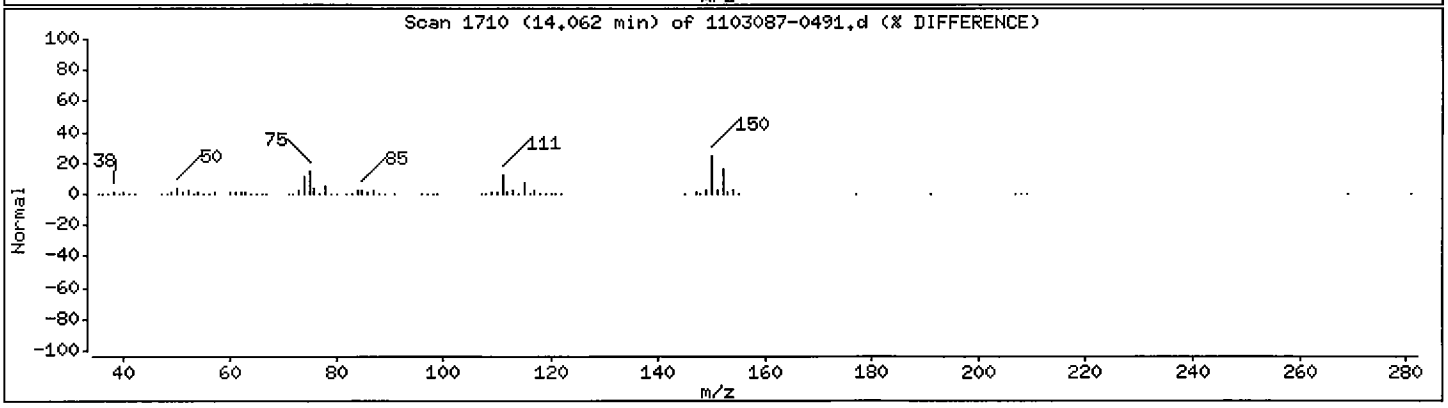
Column phase: SPB-624 Column diameter: 0.32

93 1,4-Dichlorobenzene Concentration: 1.7 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d
Lab Smp Id: 1103087-04 Client Smp ID: MW-9
Inj Date : 18-MAR-2011 21:52
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-04:TD
Misc Info : MW-9
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	10.111	1319272	125.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.905	202827	19.2177211	0.77	0		0	1
Ethyl ether				CAS #: 60-29-7			
6.490	244479	23.1641355	0.93	90	NIS08.1	837	1
Unknown				CAS #:			
7.106	95773	9.07439250	0.36	0		0	1

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

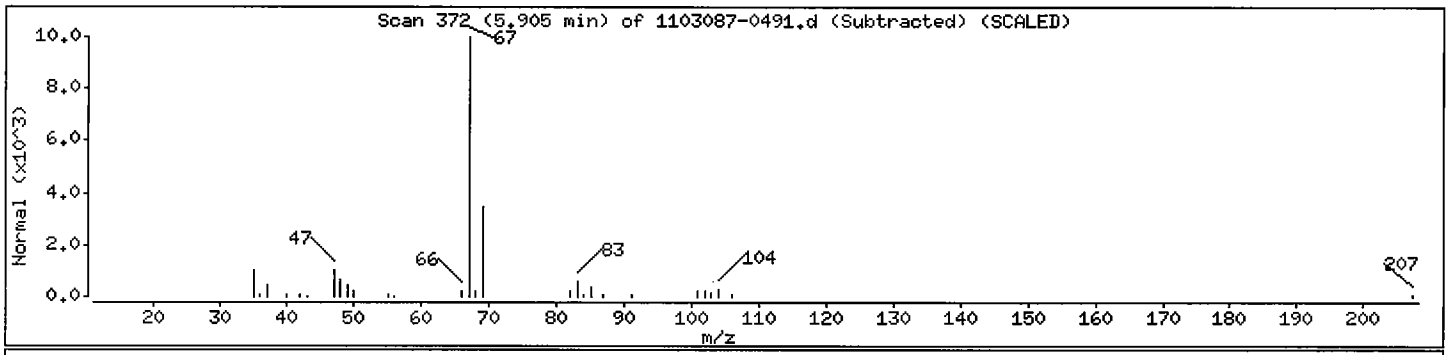
Client ID: MW-9 Instrument: 5975hpms91.i

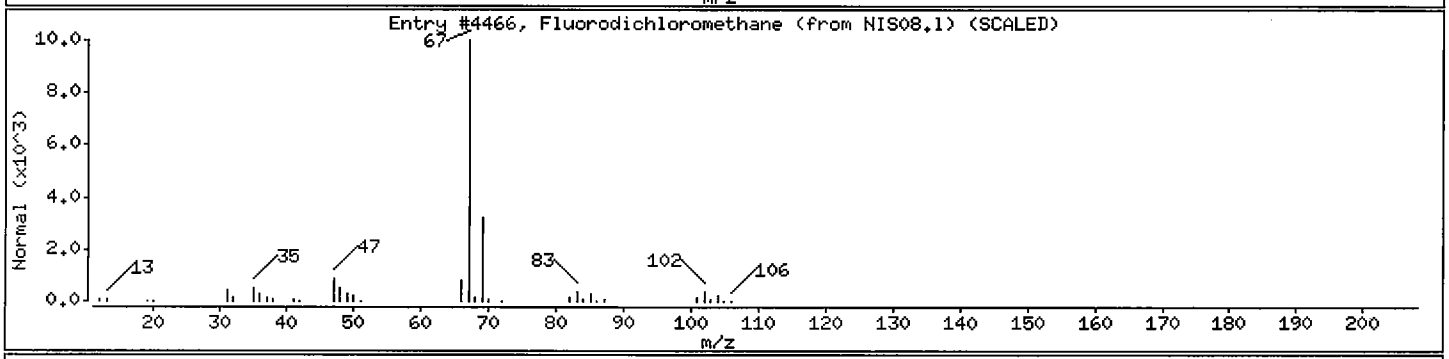
Sample Info: 1103087-04:TD

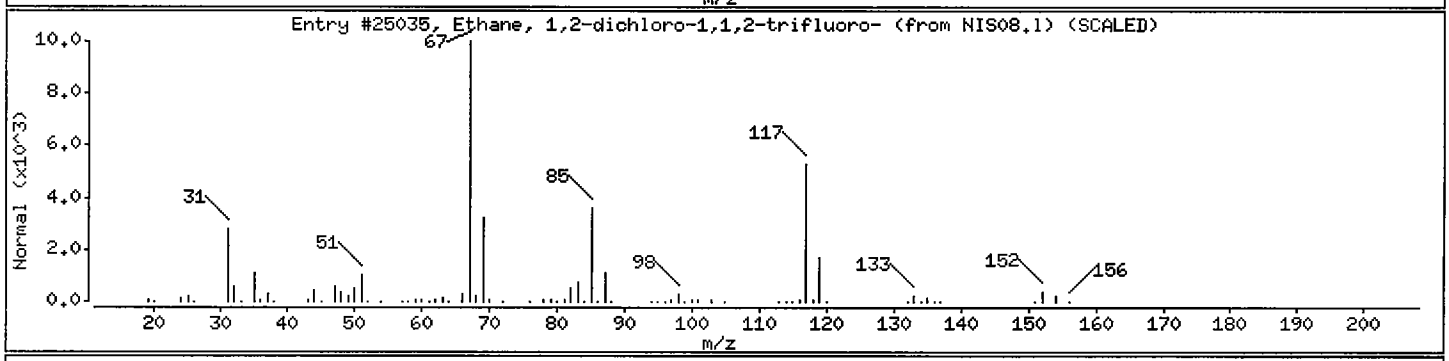
Purge Volume: 25.0 Operator: TD

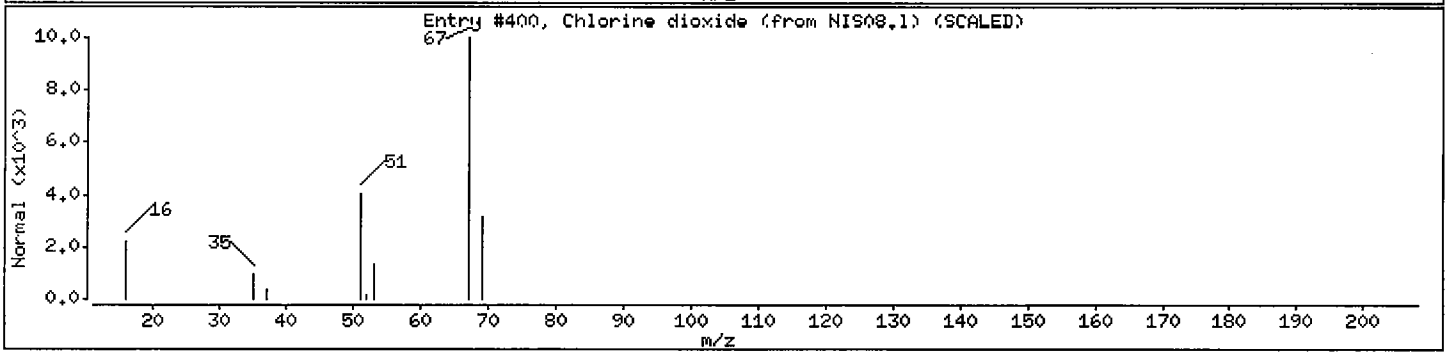
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Fluorodichloromethane	75-43-4	NIS08.1	4466	78	CHCl2F	102
Ethane, 1,2-dichloro-1,1,2-trifluoro-	354-23-4	NIS08.1	25035	56	C2HCl2F3	152
Chlorine dioxide	10049-04-4	NIS08.1	400	45	ClO2	67









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

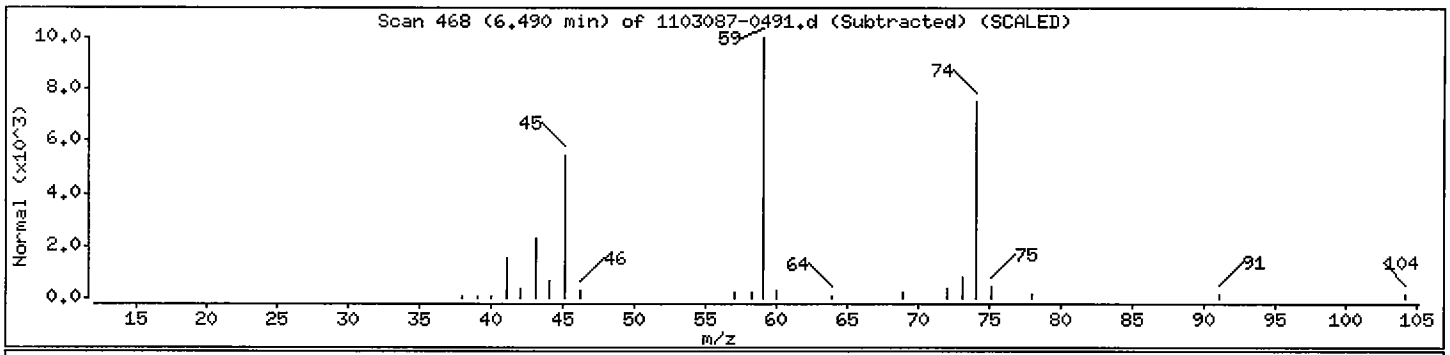
Client ID: MW-9 Instrument: 5975hpms91.i

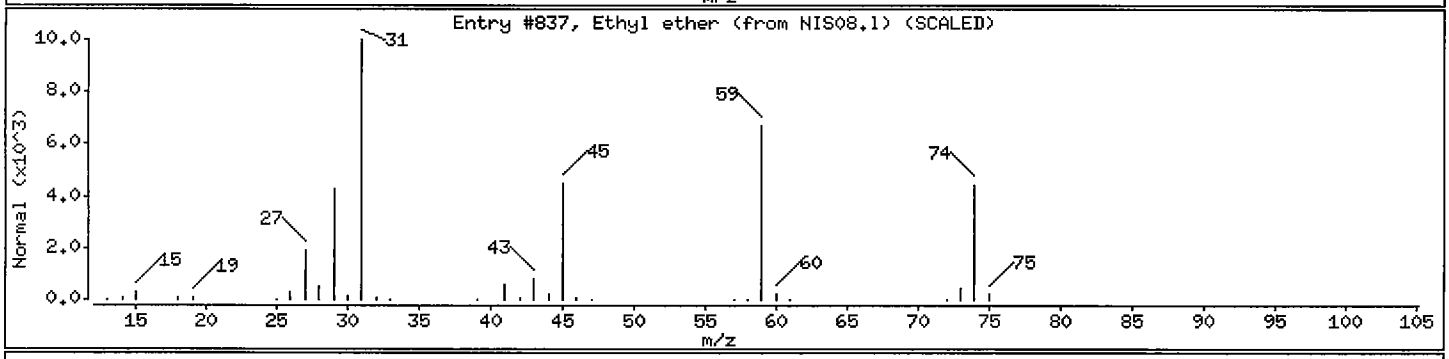
Sample Info: 1103087-04:TD

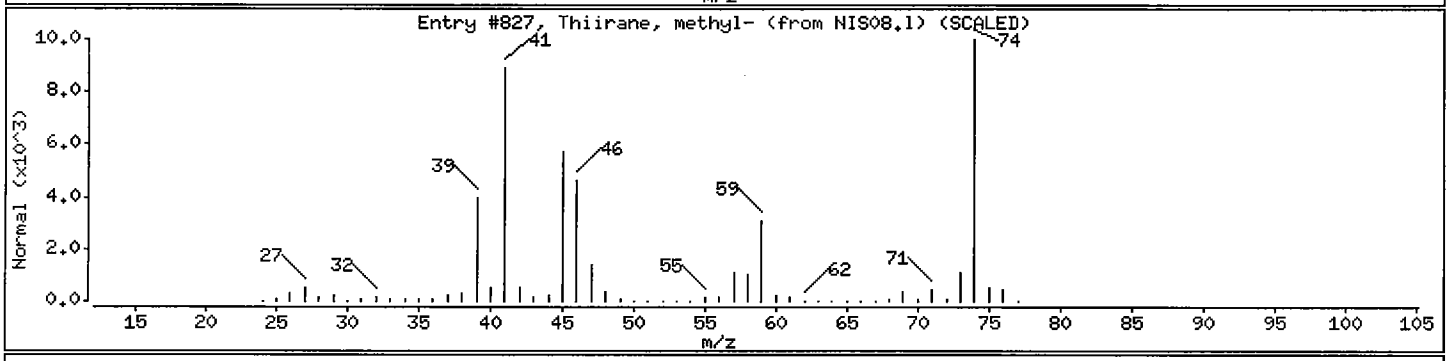
Purge Volume: 25.0 Operator: TD

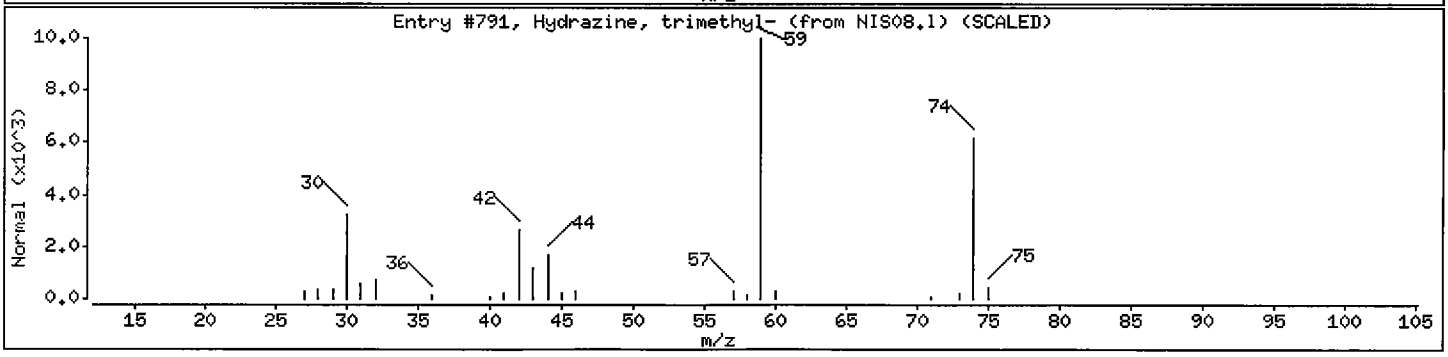
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl ether	60-29-7	NIS08.l	837	90	C4H10O	74
Thiirane, methyl-	1072-43-1	NIS08.l	827	59	C3H6S	74
Hydrazine, trimethyl-	1741-01-1	NIS08.l	791	59	C3H10N2	74









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0491.d

Date : 18-MAR-2011 21:52

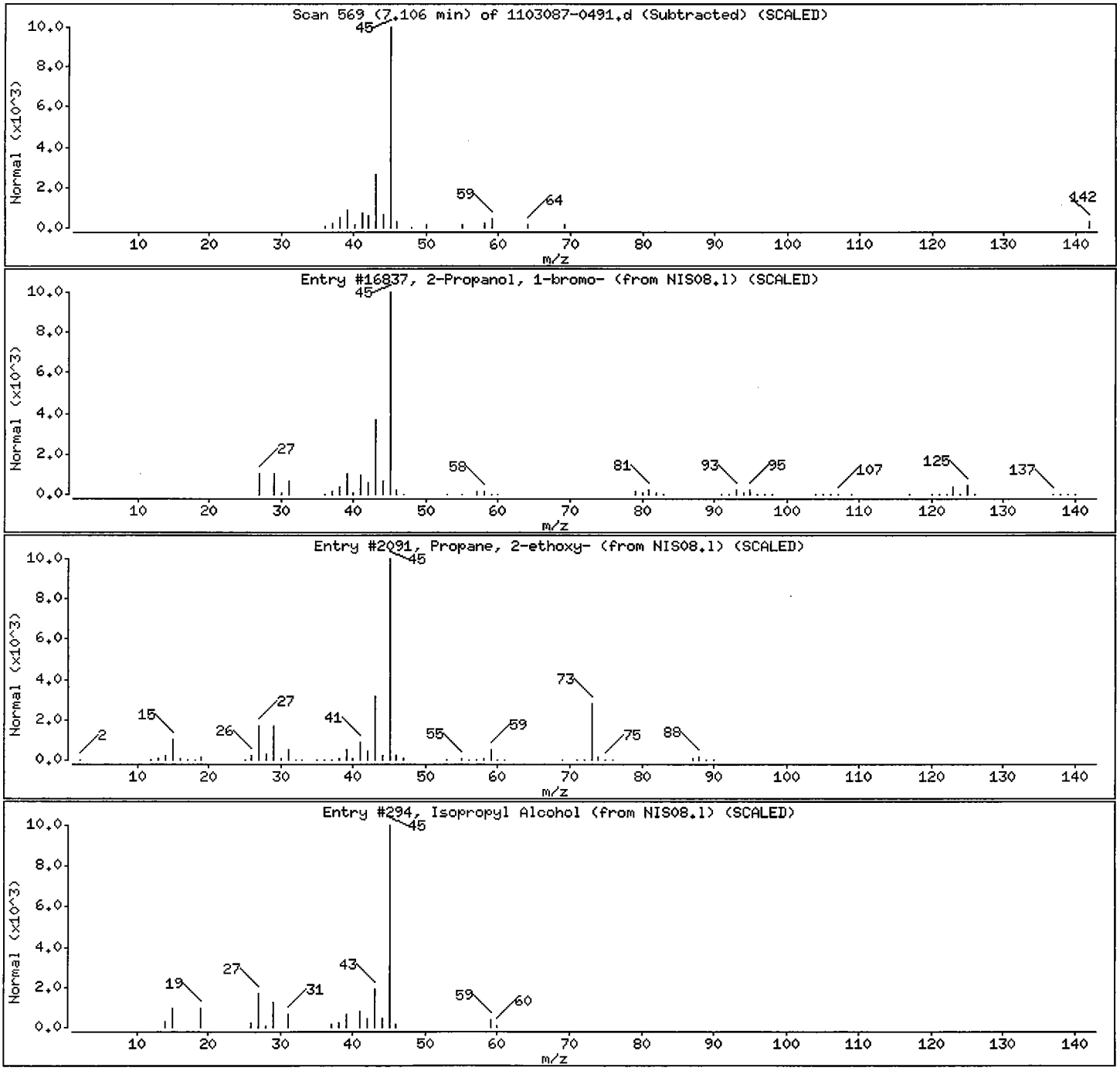
Client ID: MW-9 Instrument: 5975hpms91.i

Sample Info: 1103087-04:TD

Purge Volume: 25.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Propanol, 1-bromo-	19686-73-8	NIS08.l	16837	40	C3H7BrO	138
Propane, 2-ethoxy-	625-54-7	NIS08.l	2091	40	C5H12O	88
Isopropyl Alcohol	67-63-0	NIS08.l	294	40	C3H8O	60



ANALYSIS DATA SHEET

SW 8260B

MW-12

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0591.d | Sampled: 03/17/11 13:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-05 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:21

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride	1.2	0.070	0.50	
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane	6.4	0.20	0.50	
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene	0.25	0.040	0.50	J
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.79	0.020	0.50	
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.44	0.050	0.50	J
75-34-3	1,1-Dichloroethane	17	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	35	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform	0.31	0.030	0.50	J
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane	0.32	0.030	0.50	J
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene	0.15	0.030	0.50	J
79-01-6	Trichloroethene	3.4	0.030	0.50	
78-87-5	1,2-Dichloropropane	0.54	0.12	0.50	
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

Environmental Testing Laboratories

CompuChem

A Division Of

Liberty Analytical Corp.

ANALYSIS DATA SHEET

SW 8260B

MW-12

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0591.d | Sampled: 03/17/11 13:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-05 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:21

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	1.7	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene	0.21	0.020	0.50	J
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene	1.7	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	0.14	0.030	0.50	J
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.498	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.341	107	59 - 150	
Toluene-d8	5.000	5.227	105	61 - 145	
Bromofluorobenzene	5.000	4.925	99	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
	1,3-Dichloro-2-methyl-propene	0.32	92939	12.123	91	JN
000075-45-6	Difluorochloromethane	3.0	787132	3.862	86	JN
60-29-7	Ethyl Ether	3.2	829300	6.49	86	JN
000075-43-4	Fluorodichloromethane	0.55	141937	5.905	97	JN
NA	Unknown 10.910	0.21	55012	10.91	0	J

Environmental Testing Laboratories
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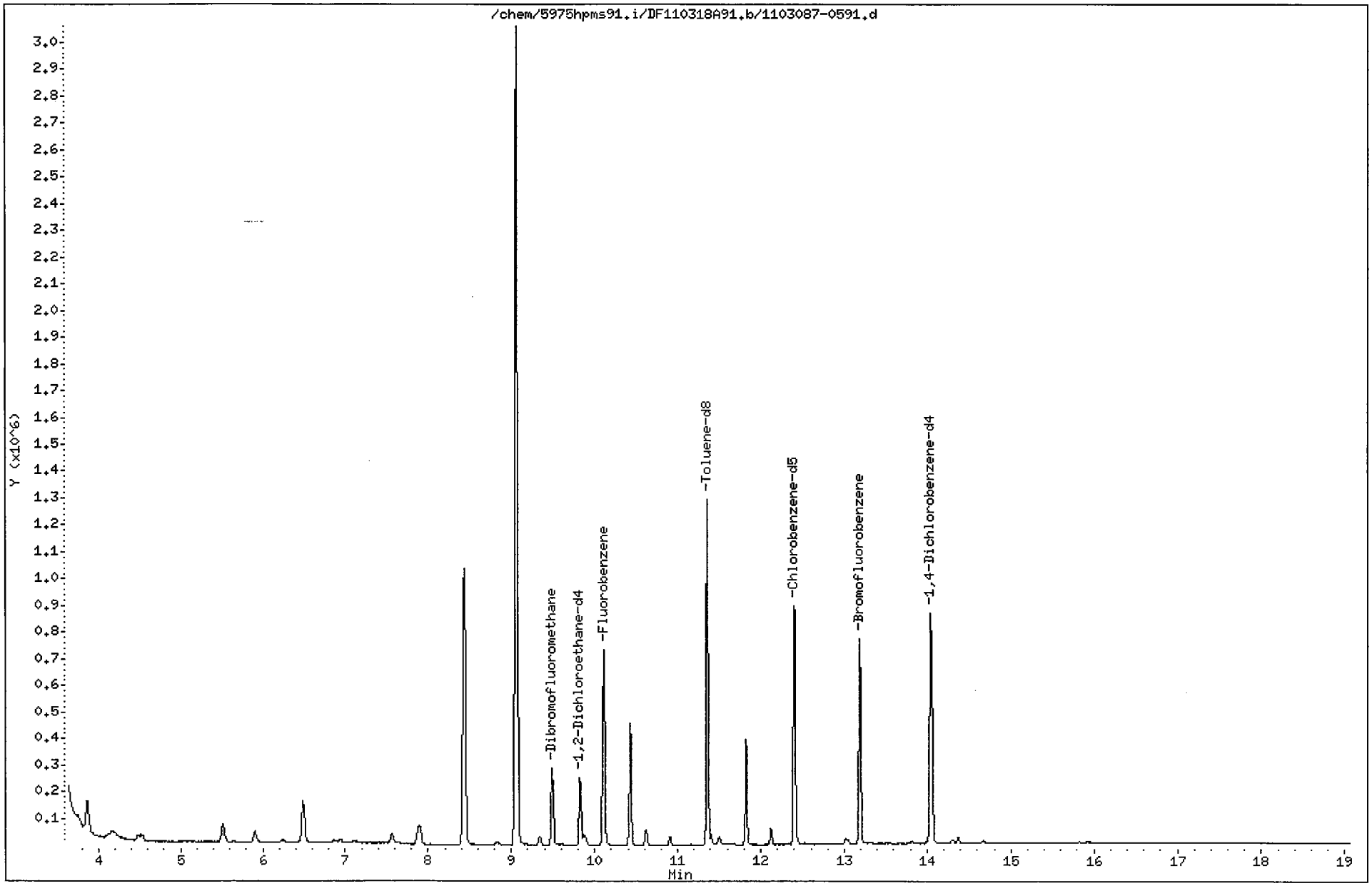
Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Date : 18-MAR-2011 22:21
Client ID: MW-12
Sample Info: 1103087-05:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Lab Smp Id: 1103087-05 Client Smp ID: MW-12
Inj Date : 18-MAR-2011 22:21
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-05:TD
Misc Info : MW-12
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	594324	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.403	(1.000)	433033	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	205510	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.938)	169993	137.460	5.5
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	174284	133.523	5.3
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	728042	130.672	5.2
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	256259	123.137	4.9
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	4.527	4.527	(0.448)	29049	30.9702	1.2
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	5.514	5.515	(0.545)	80541	160.820	6.4
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	3708	6.19795	0.25(a)
18 Acetone	43	Compound Not Detected.					

pmt 3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.563	7.563	(0.748)	16869	19.8161	0.79
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	16103	11.1119	0.44(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	1096920	412.903	17
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	9.056	9.057	(0.896)	1292351	874.639	35
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	9.337	9.343	(0.923)	20933	7.73696	0.31(a)
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	9.873	9.873	(0.976)	22035	3.63942	0.15(a)
48 1,2-Dichloroethane	62	9.898	9.892	(0.979)	12892	7.92998	0.32(a)
49 Trichloroethene	130	10.428	10.428	(1.031)	130286	85.3496	3.4
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	18148	13.6157	0.54
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.824	11.824	(0.954)	74294	42.1945	1.7
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	12.422	12.422	(1.002)	21918	5.16541	0.21(a)
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	141816	43.2938	1.7
95 1,2-Dichlorobenzene	146	14.372	14.373	(1.024)	9353	3.42601	0.14(a)
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

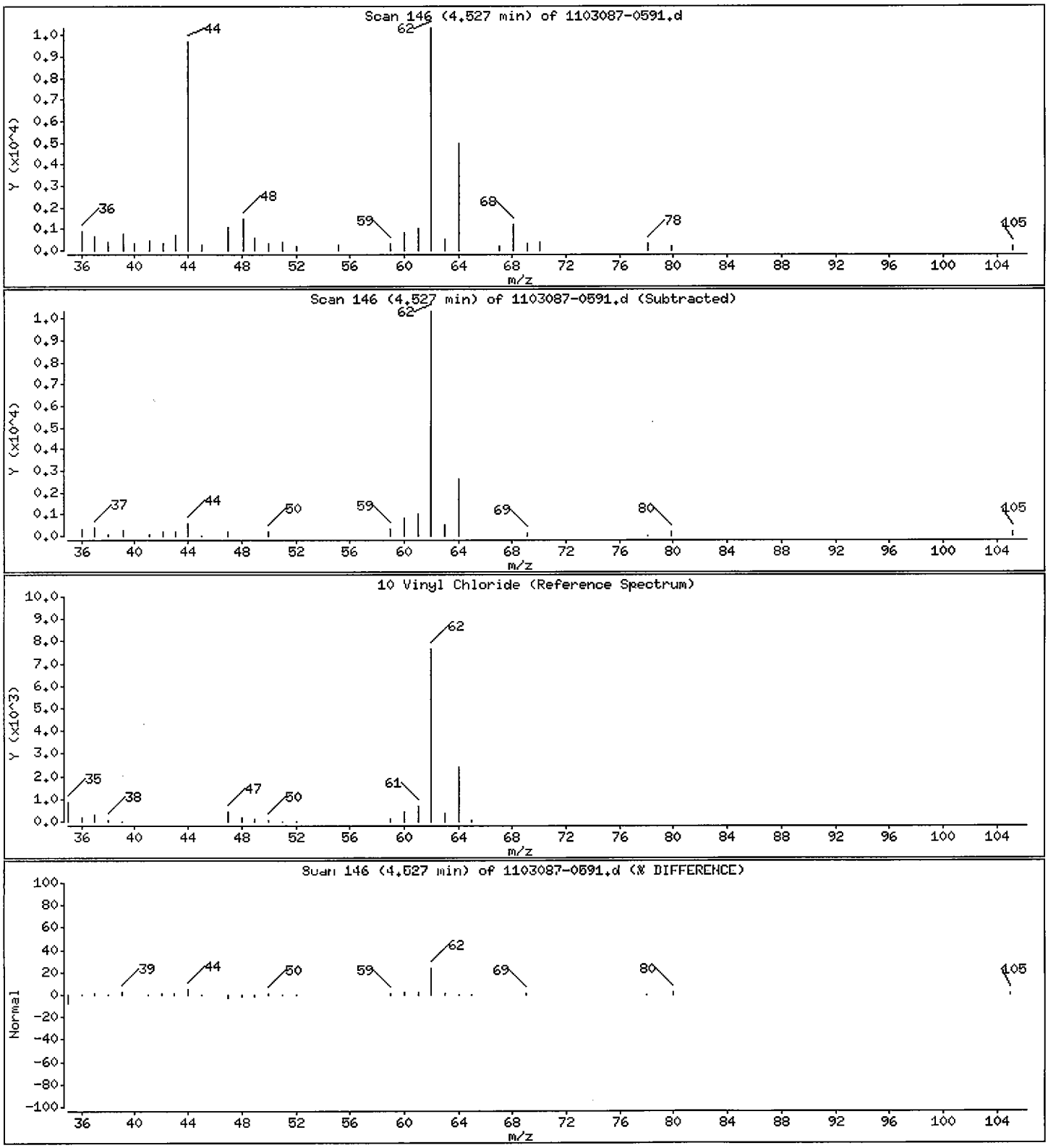
Client ID: MW-12 | Instrument: 5975hpms91.i

Sample Info: 1103087-05:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

10 Vinyl Chloride | Concentration: 1.2 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

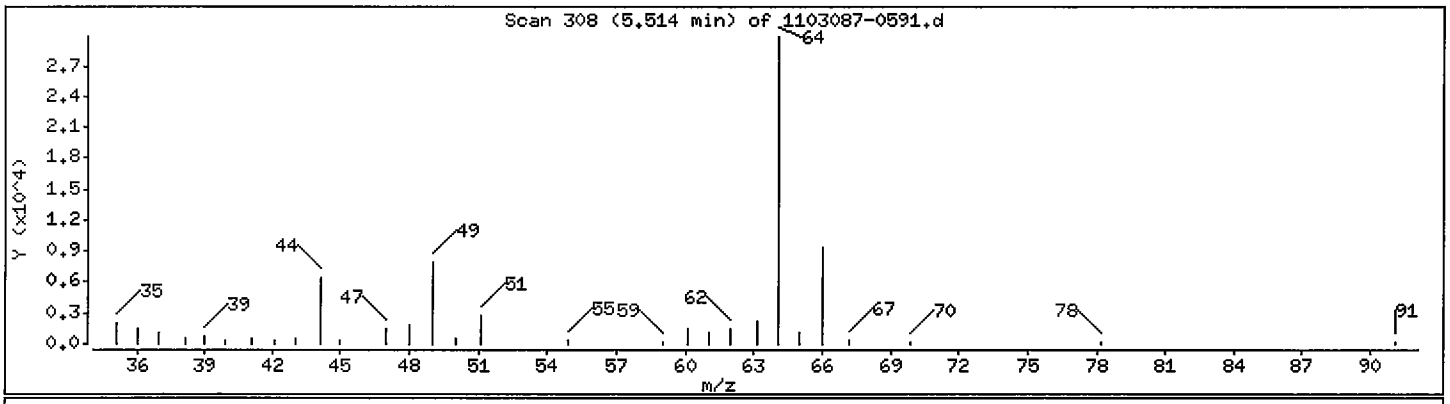
Client ID: MW-12 | Instrument: 5975hpms91.i

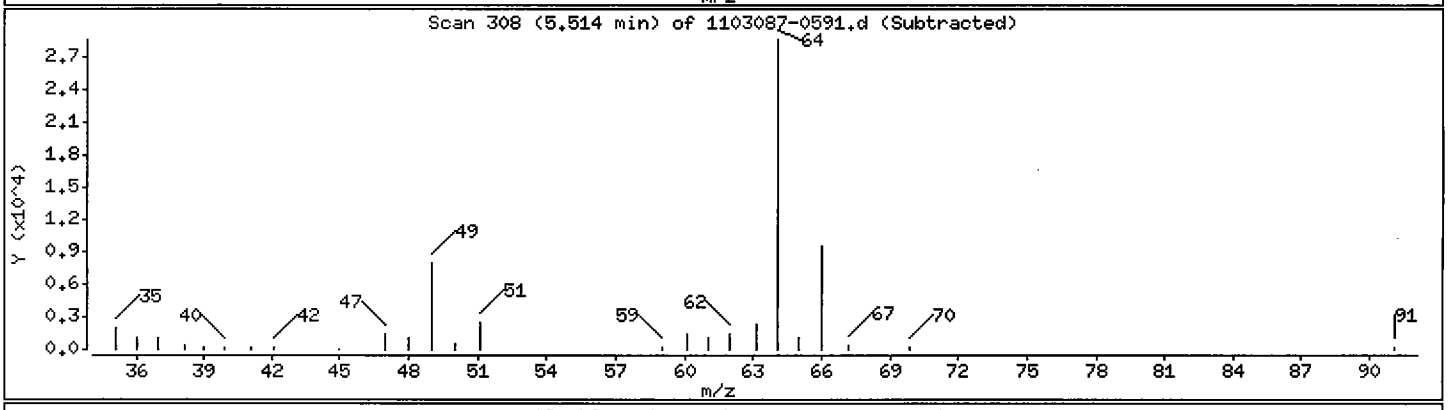
Sample Info: 1103087-05:TD

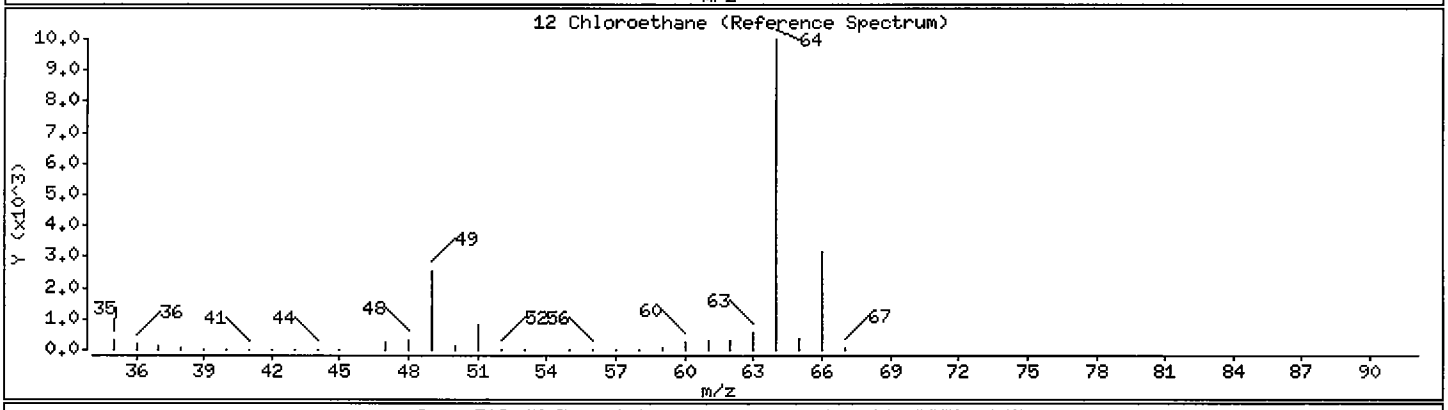
Purge Volume: 25.0 | Operator: TD

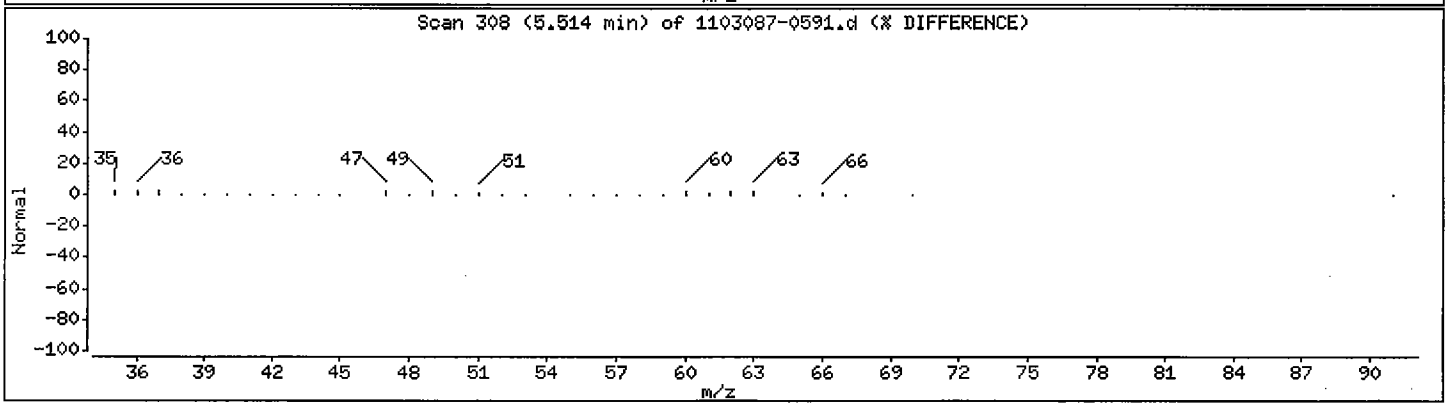
Column phase: SPB-624 | Column diameter: 0.32

12 Chloroethane | Concentration: 6.4 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

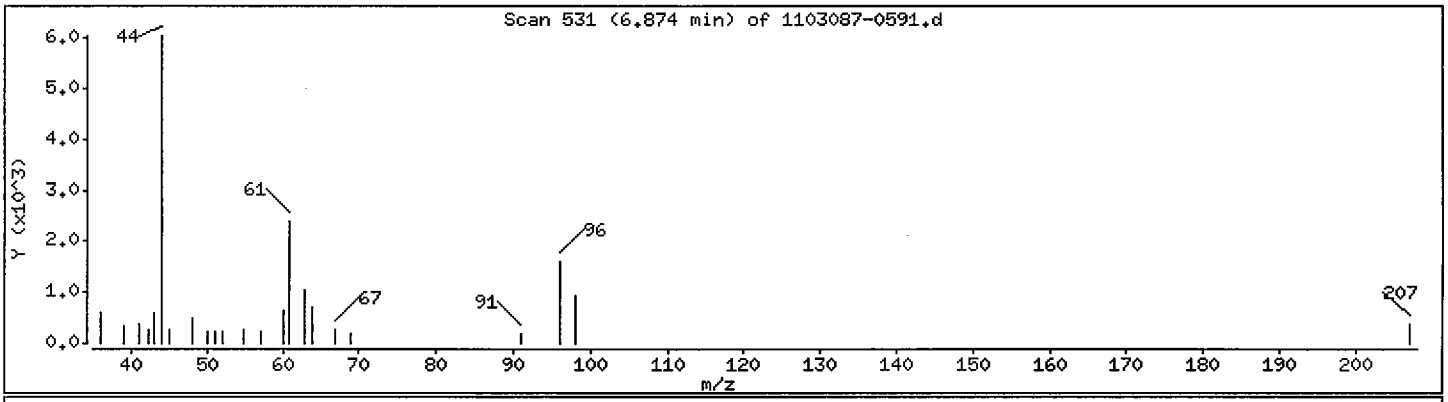
Client ID: MW-12 Instrument: 5975hpms91.i

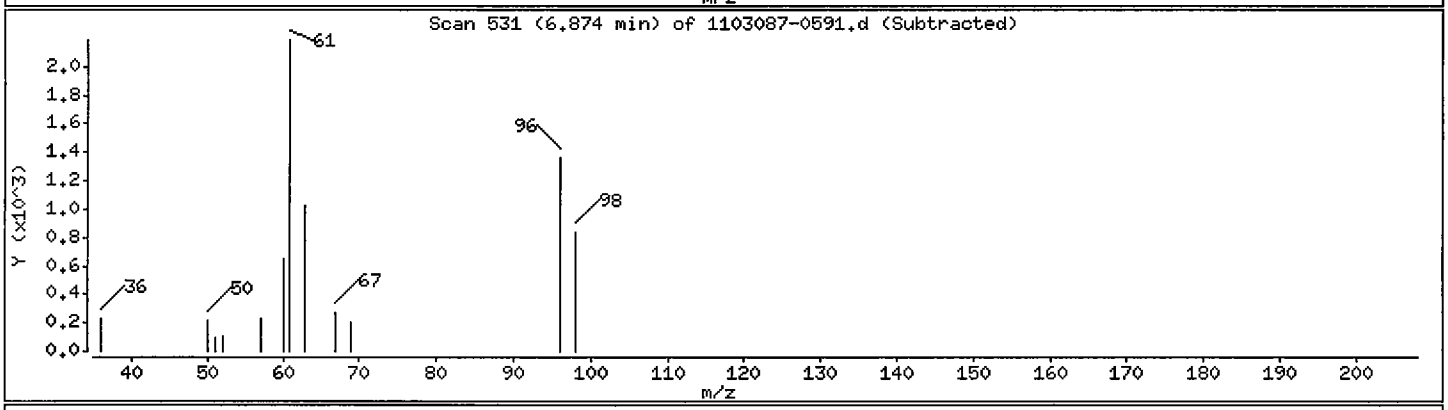
Sample Info: 1103087-05:TD

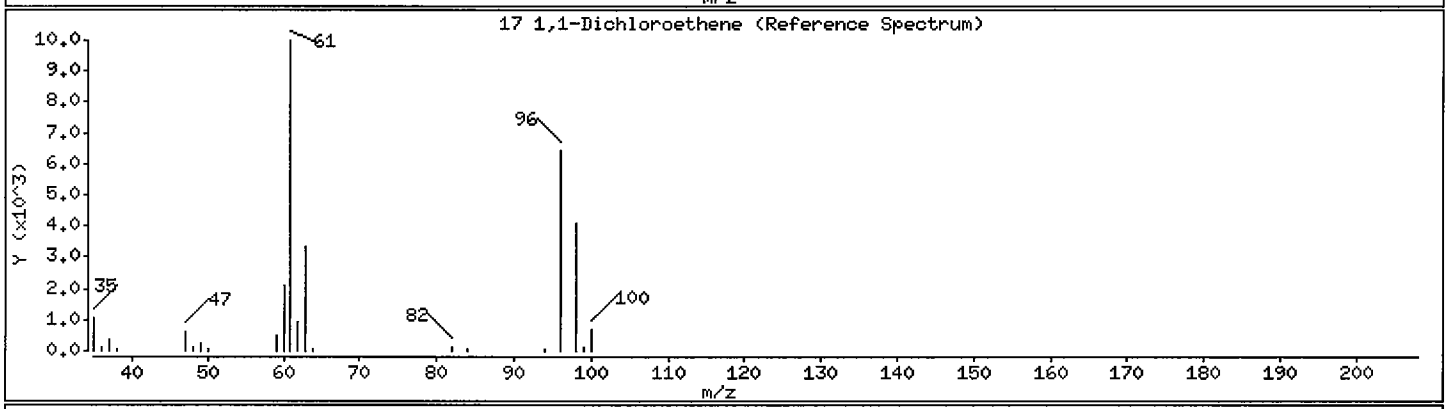
Purge Volume: 25.0 Operator: TD

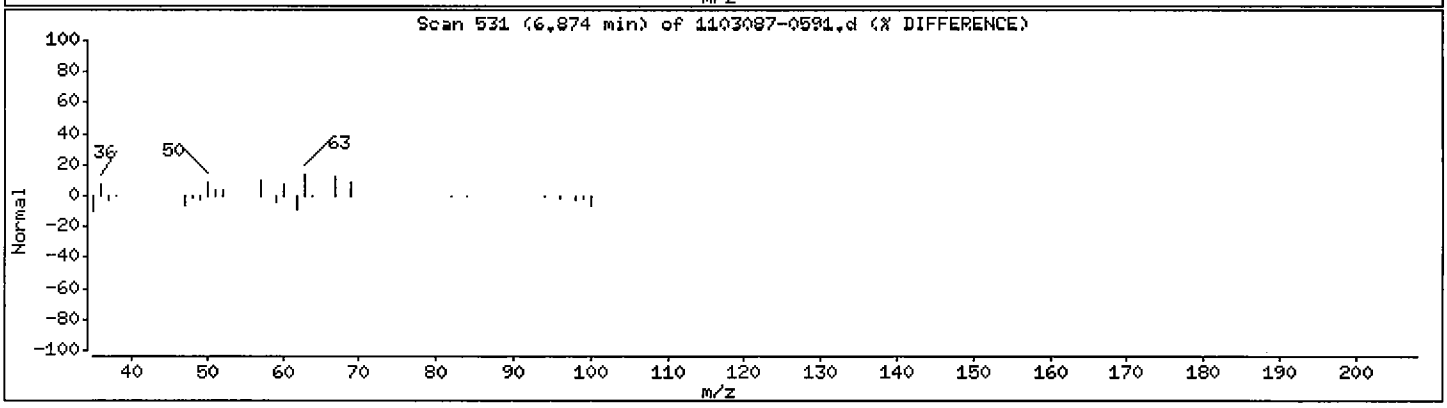
Column phase: SPB-624 Column diameter: 0.32

17 1,1-Dichloroethene Concentration: 0.25 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

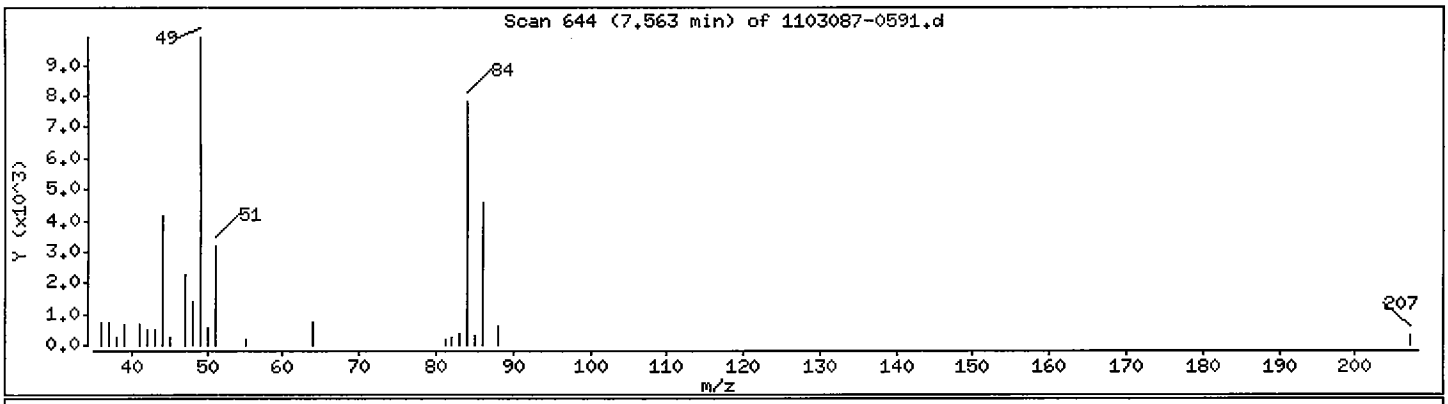
Client ID: MW-12 Instrument: 5975hpms91.i

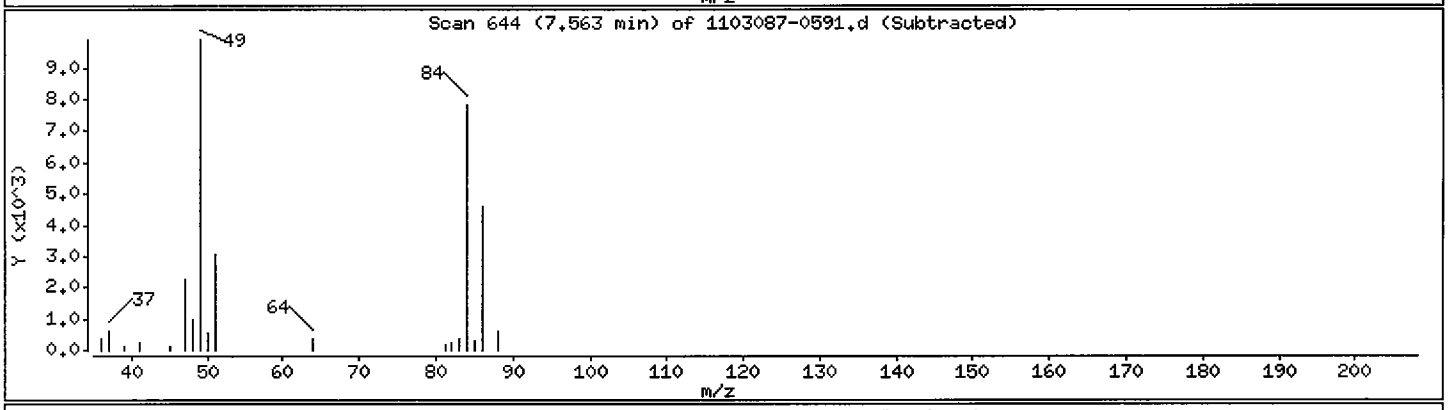
Sample Info: 1103087-05:TD

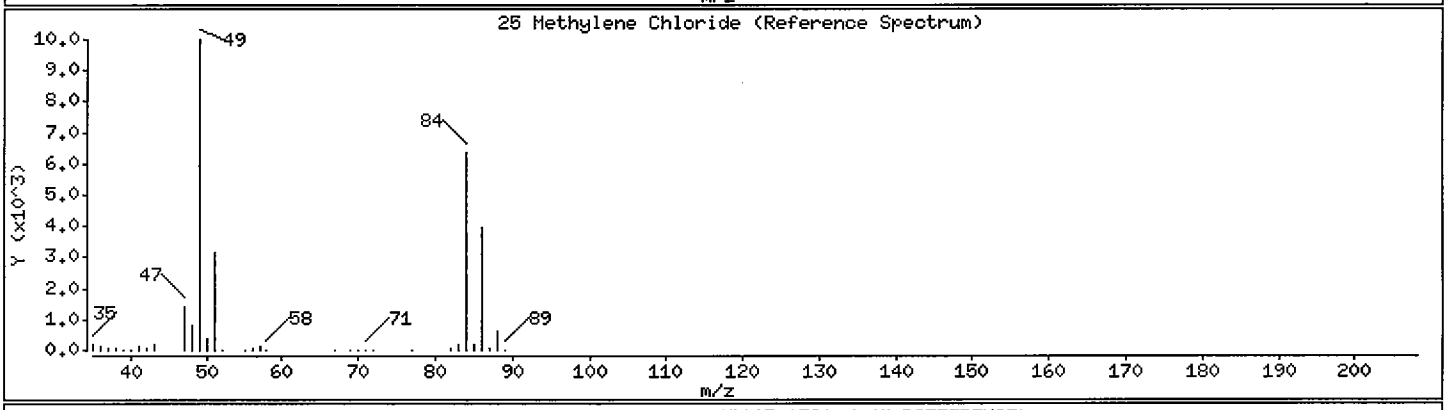
Purge Volume: 25.0 Operator: TD

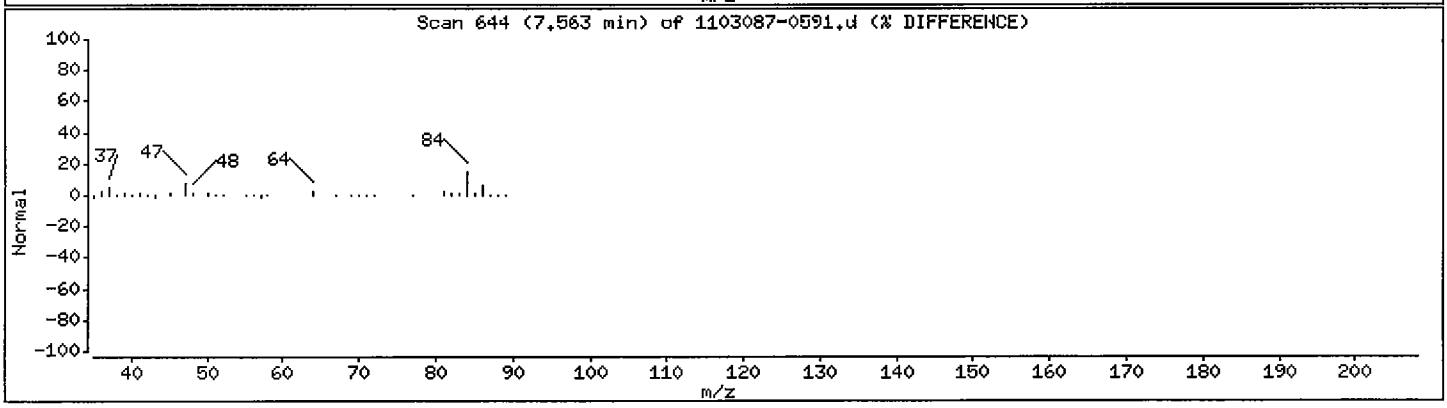
Column phase: SPB-624 Column diameter: 0.32

25 Methylene Chloride Concentration: 0.79 ug/L









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Date : 18-MAR-2011 22:21

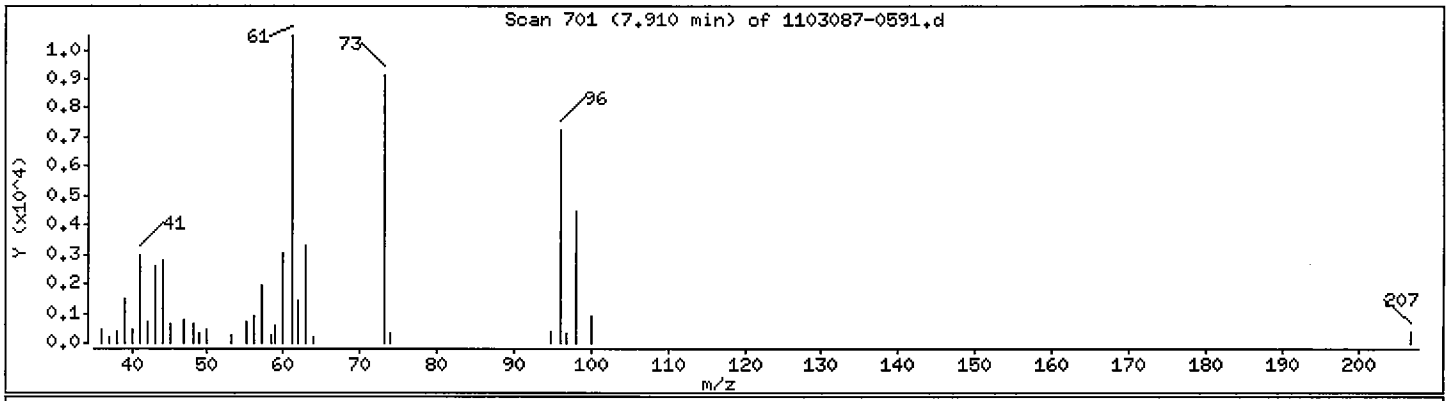
Client ID: MW-12 Instrument: 5975hpms91.i

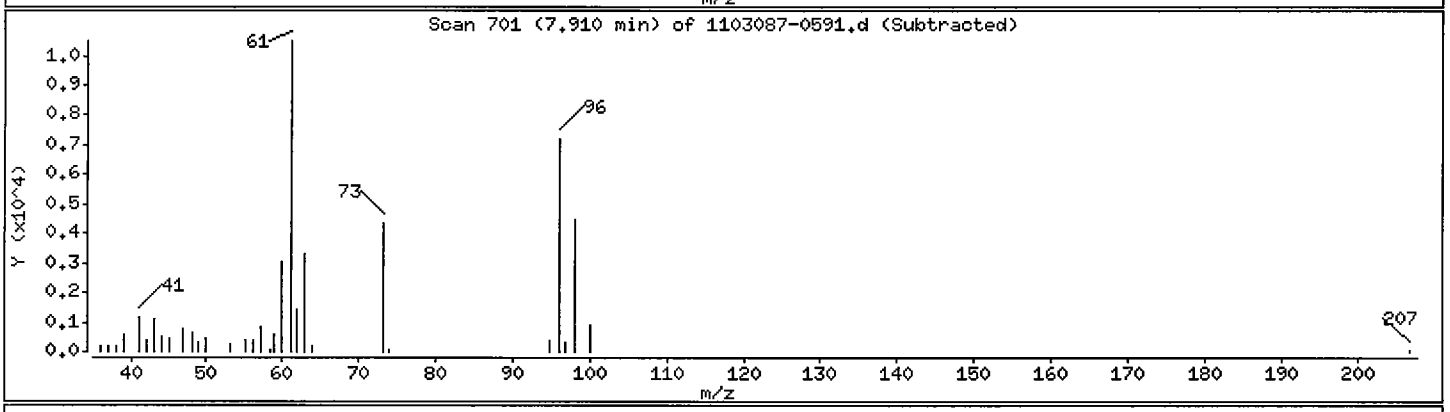
Sample Info: 1103087-05:TD

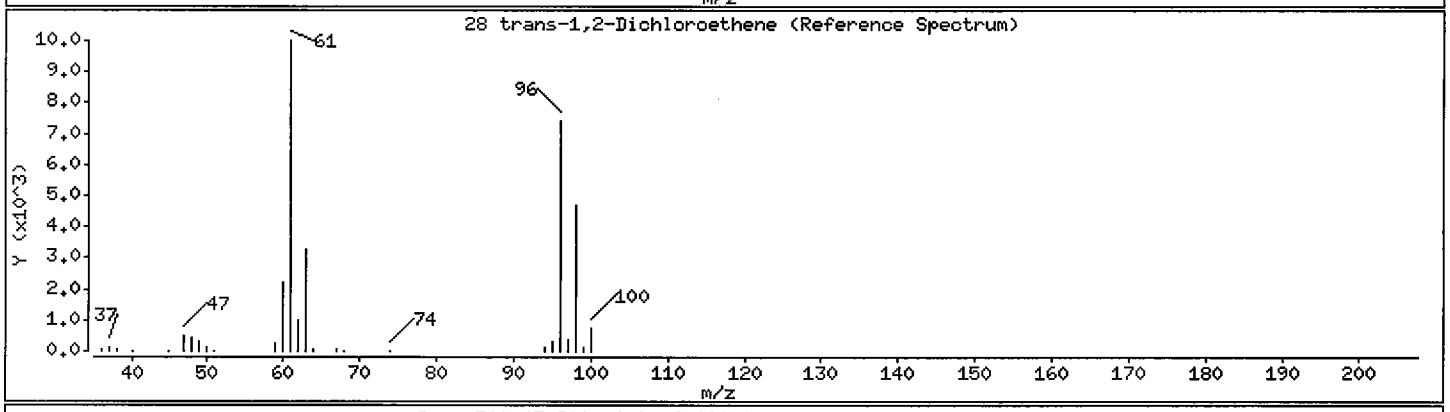
Purge Volume: 25.0 Operator: TD

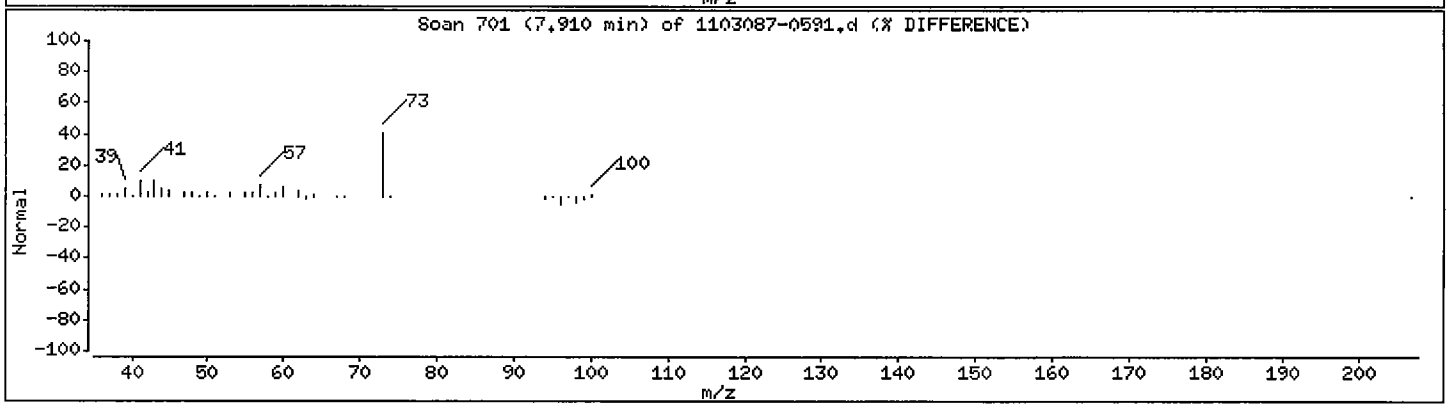
Column phase: SPB-624 Column diameter: 0.32

28 trans-1,2-Dichloroethene Concentration: 0.44 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

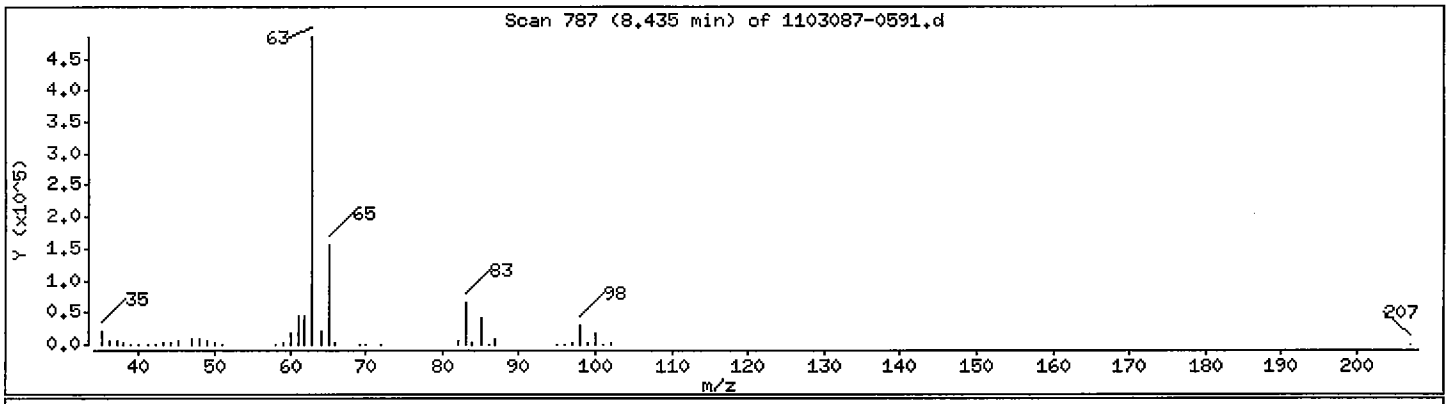
Client ID: MW-12 Instrument: 5975hpms91.i

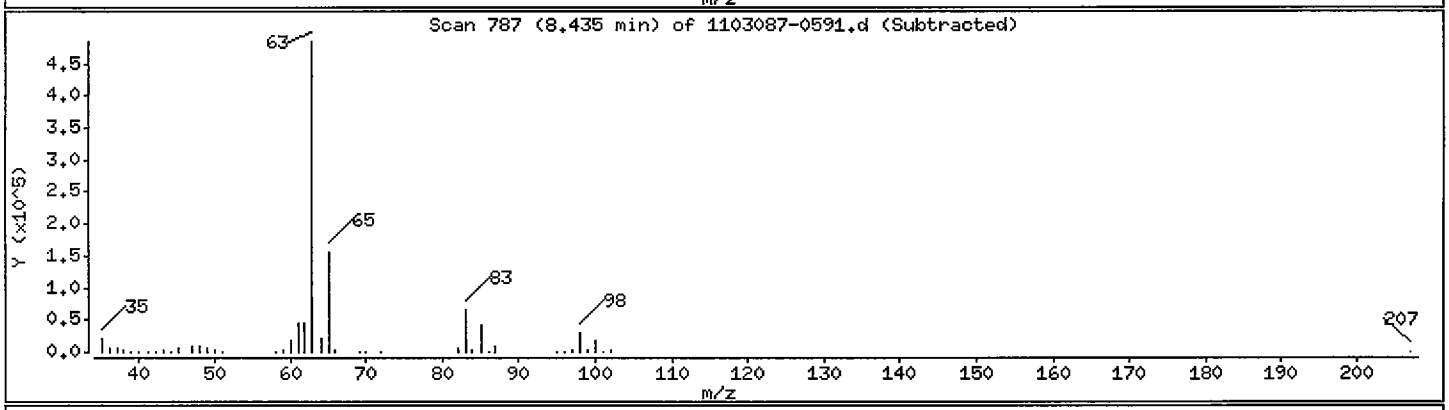
Sample Info: 1103087-05:TD

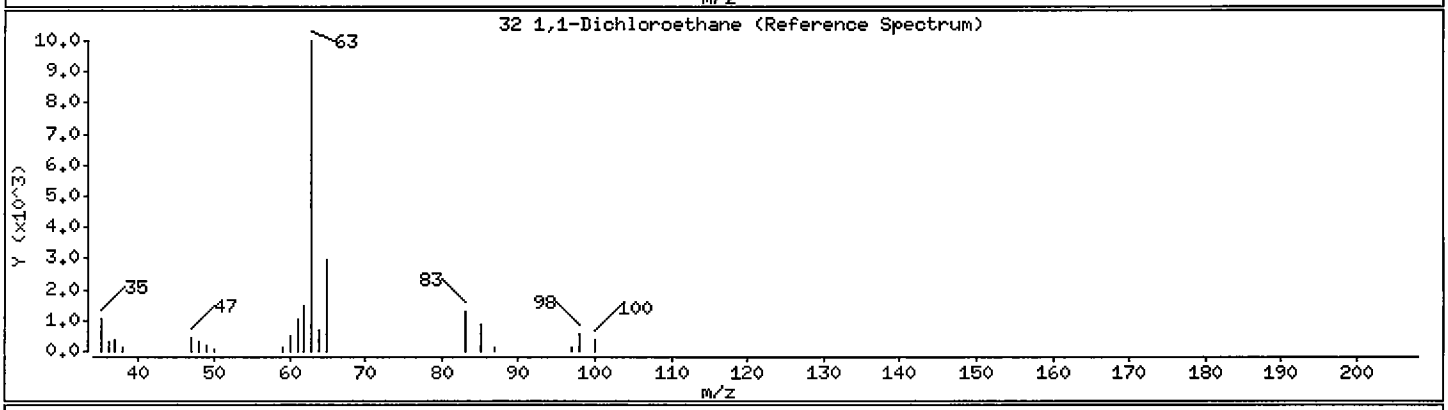
Purge Volume: 25.0 Operator: TD

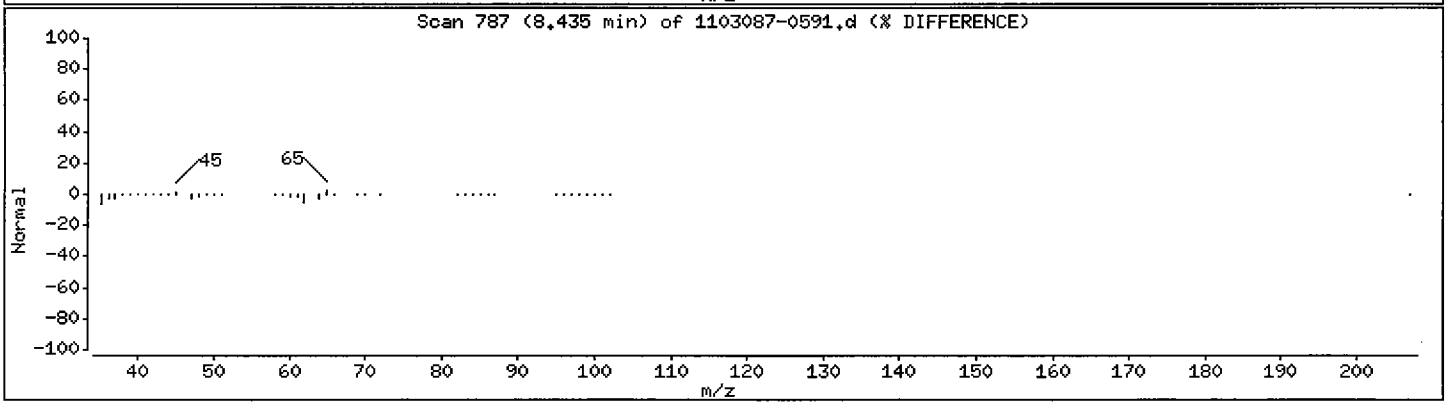
Column phase: SPB-624 Column diameter: 0.32

32 1,1-Dichloroethane Concentration: 17 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

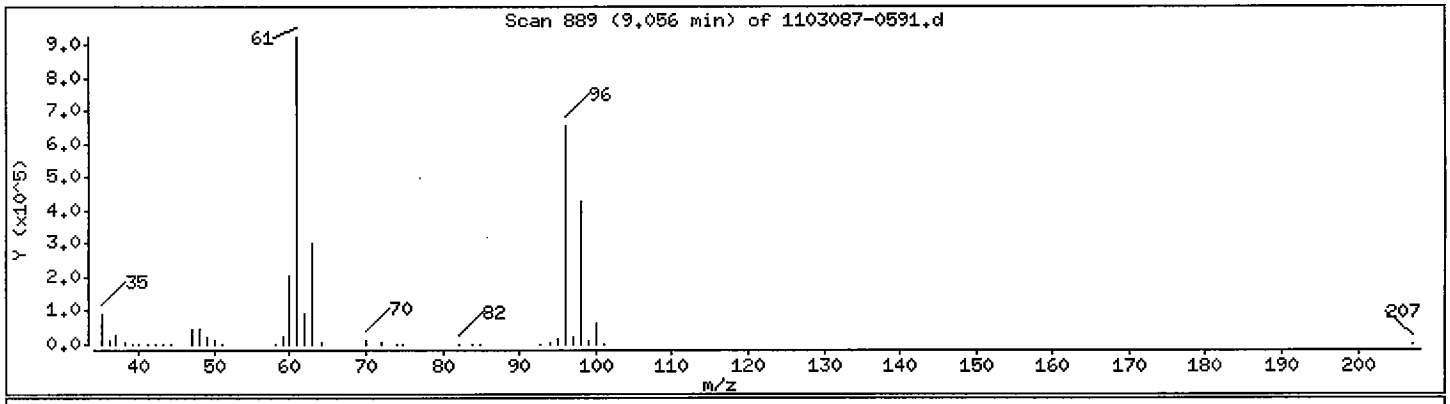
Client ID: MW-12 | Instrument: 5975hpms91.i

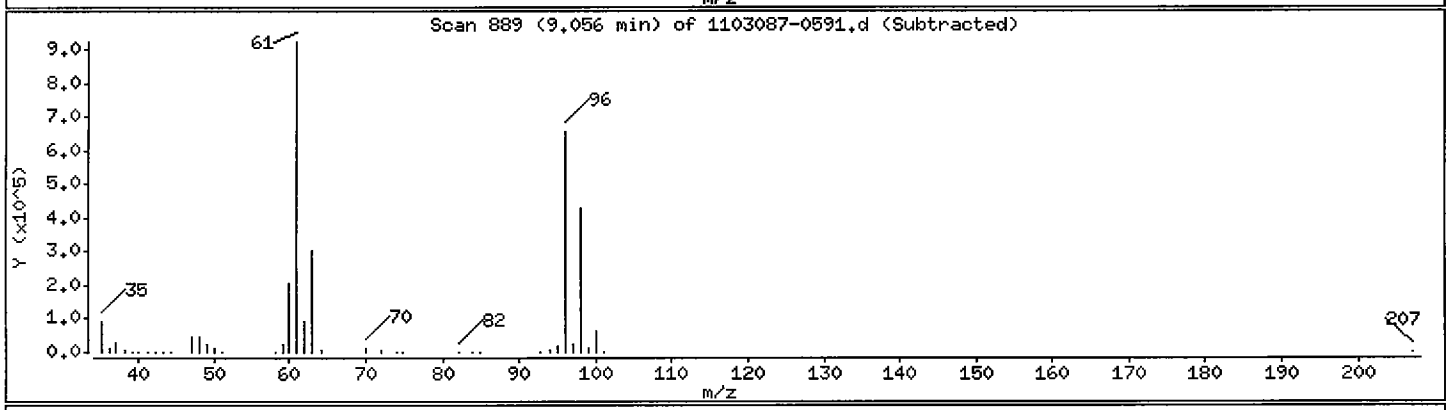
Sample Info: 1103087-05:TD

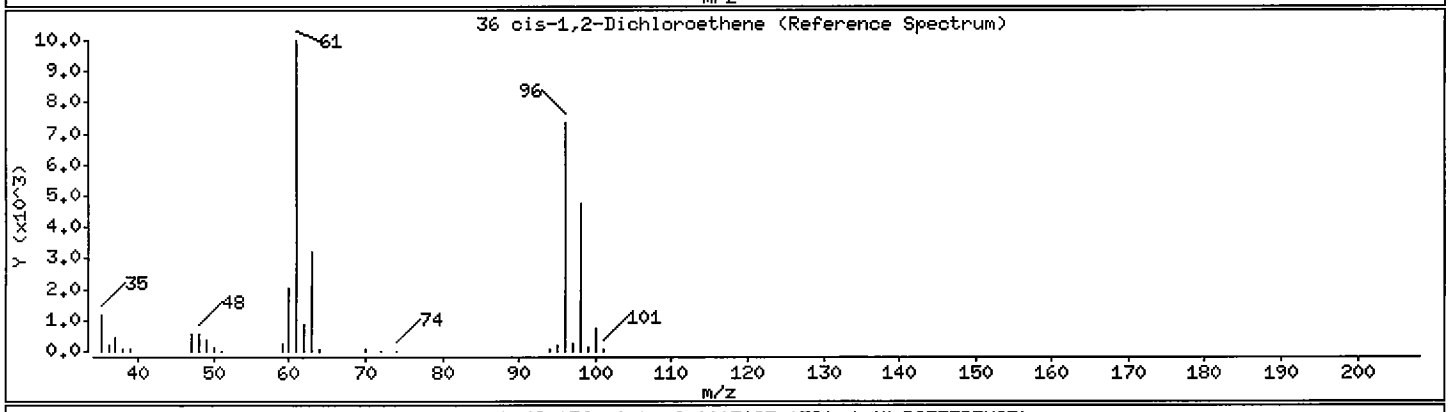
Purge Volume: 25.0 | Operator: TD

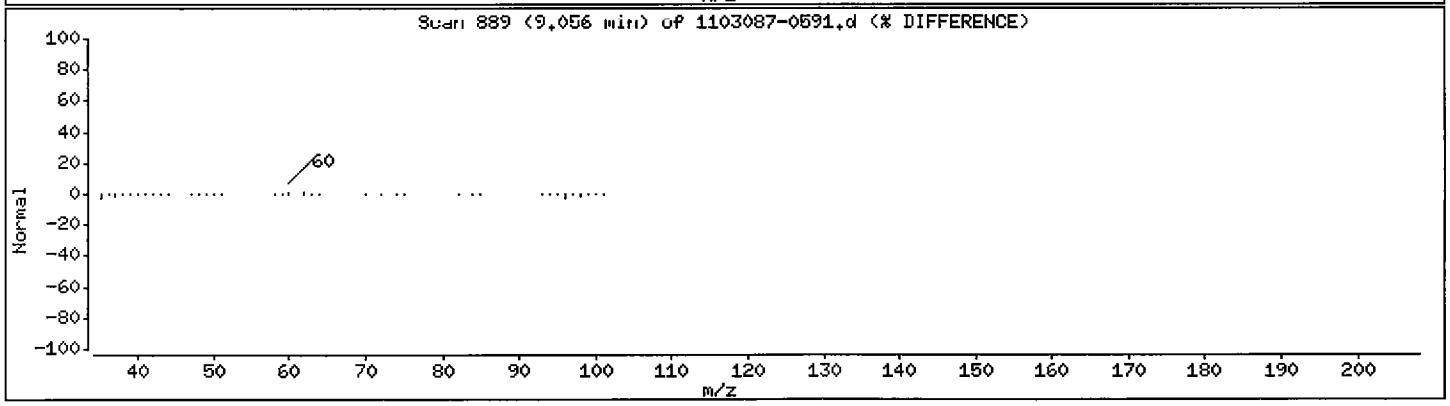
Column phase: SPB-624 | Column diameter: 0.32

36 cis-1,2-Dichloroethene | Concentration: 35 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

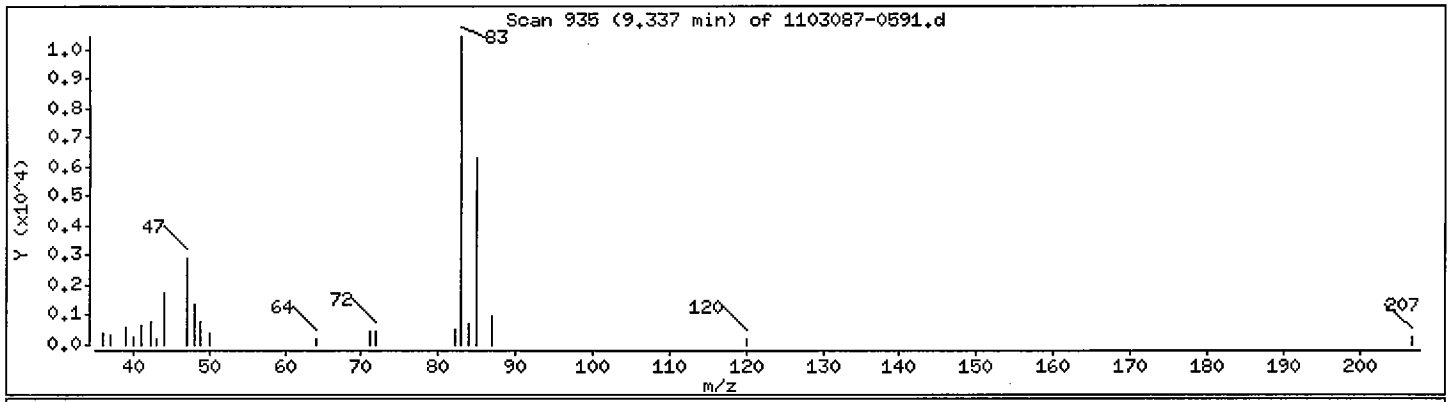
Client ID: MW-12 Instrument: 5975hpms91.i

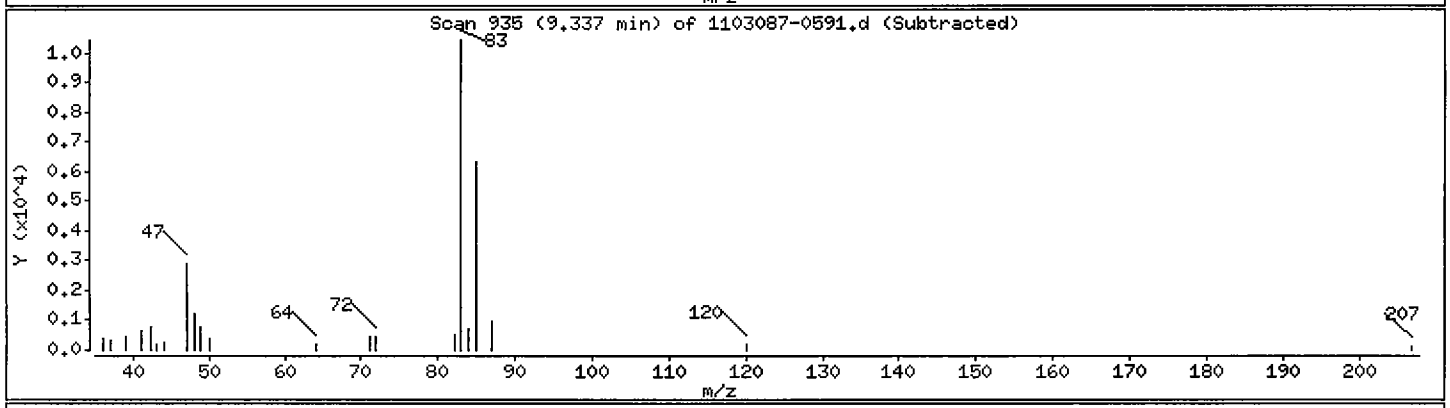
Sample Info: 1103087-05:TD

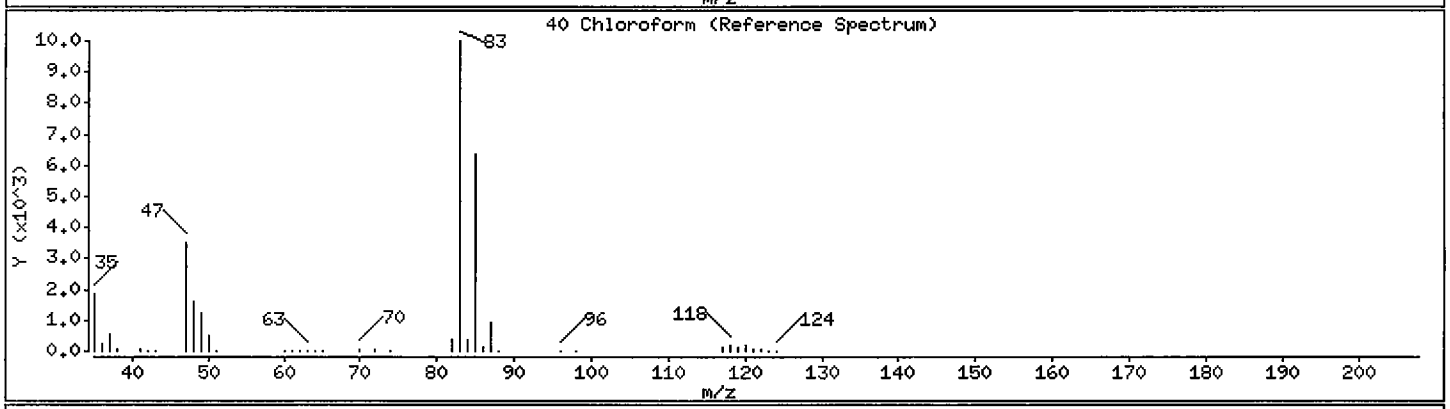
Purge Volume: 25.0 Operator: TD

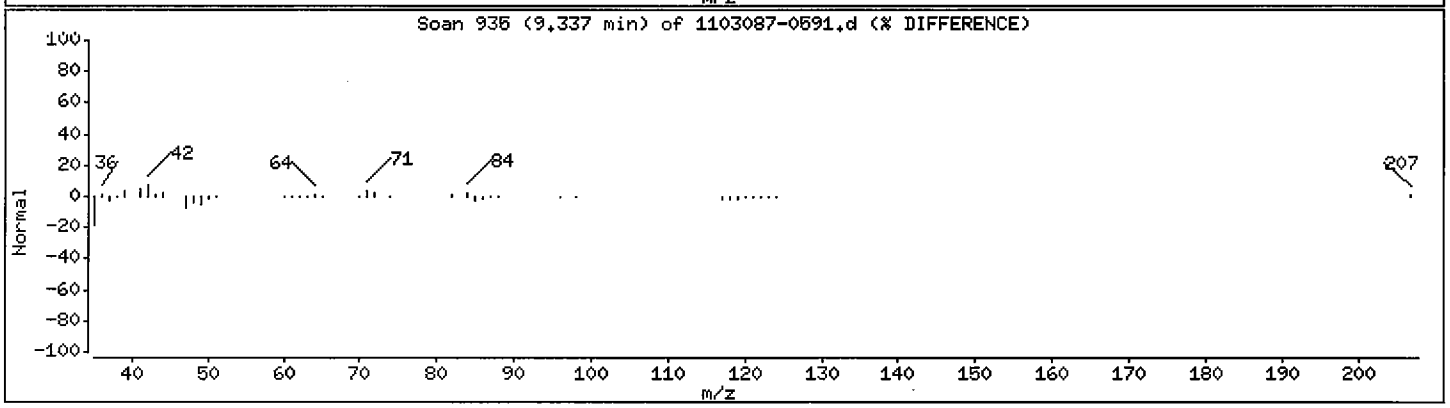
Column phase: SPB-624 Column diameter: 0.32

40 Chloroform Concentration: 0.31 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

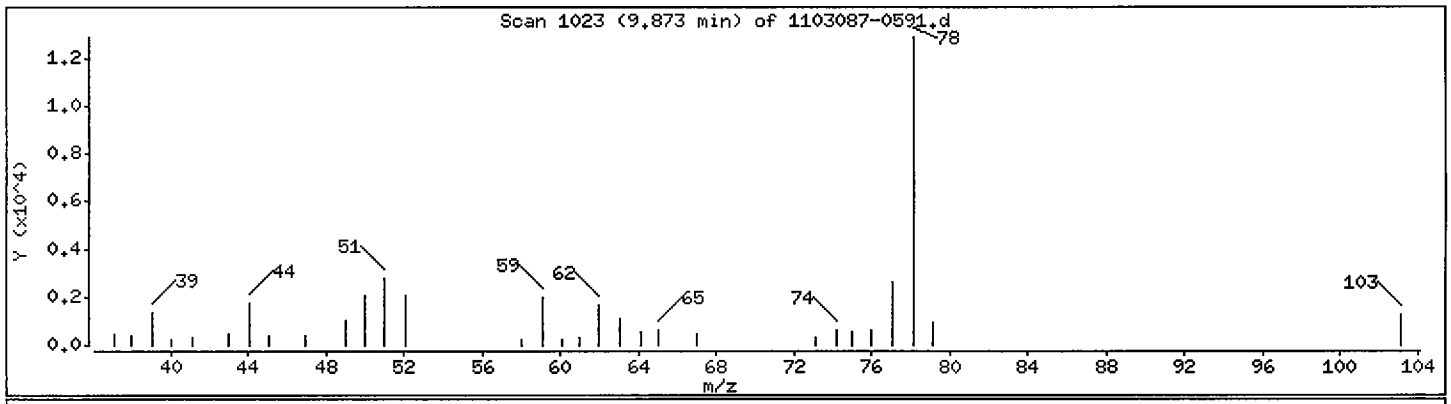
Client ID: MW-12 Instrument: 5975hpms91.i

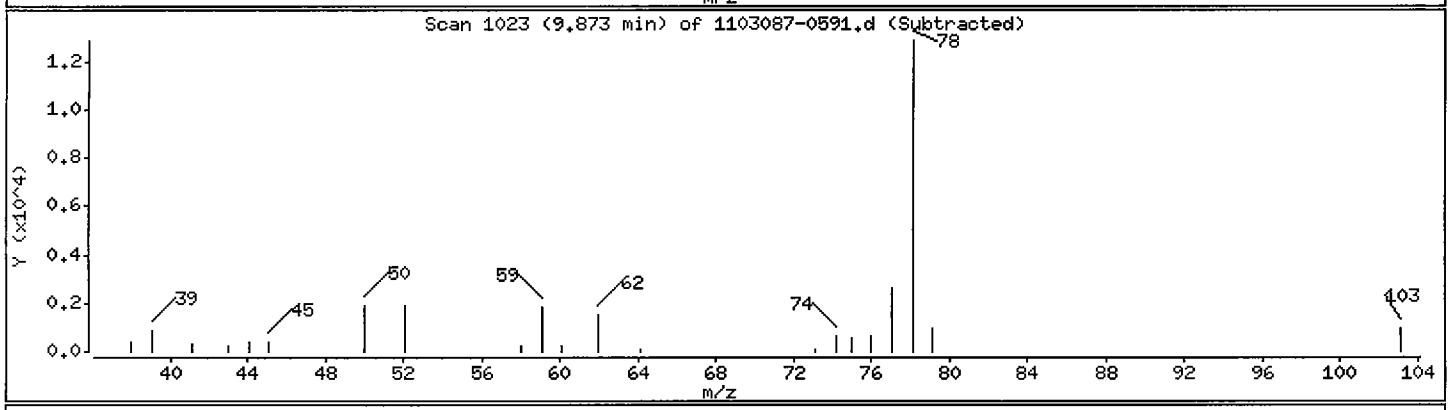
Sample Info: 1103087-05:TD

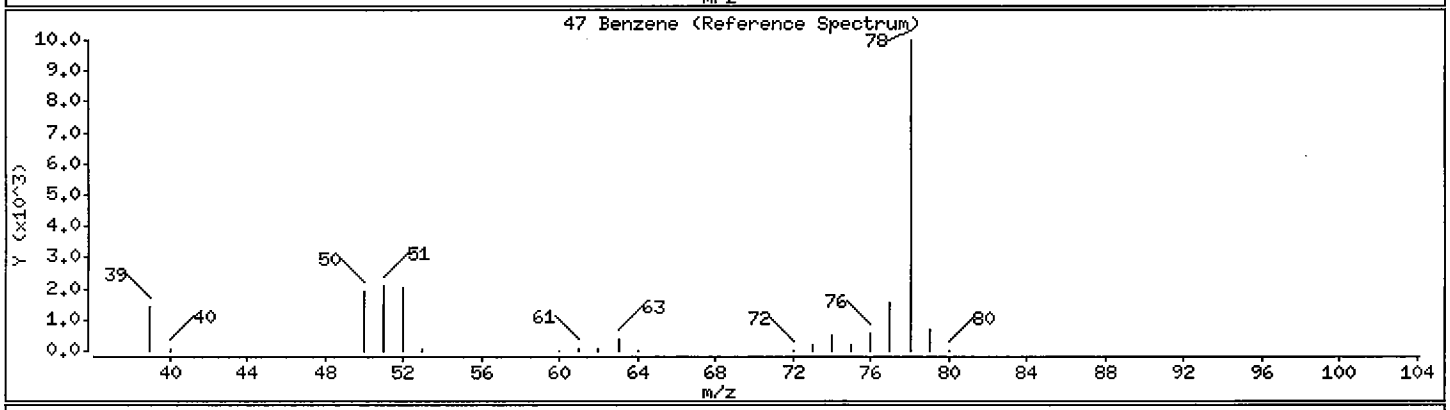
Purge Volume: 25.0 Operator: TD

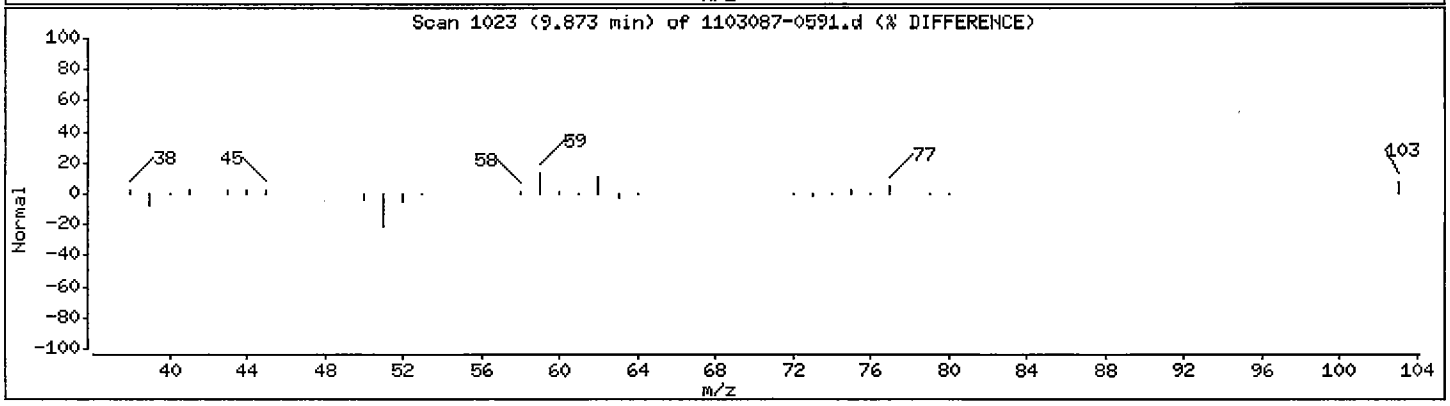
Column phase: SPB-624 Column diameter: 0.32

47 Benzene Concentration: 0.15 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

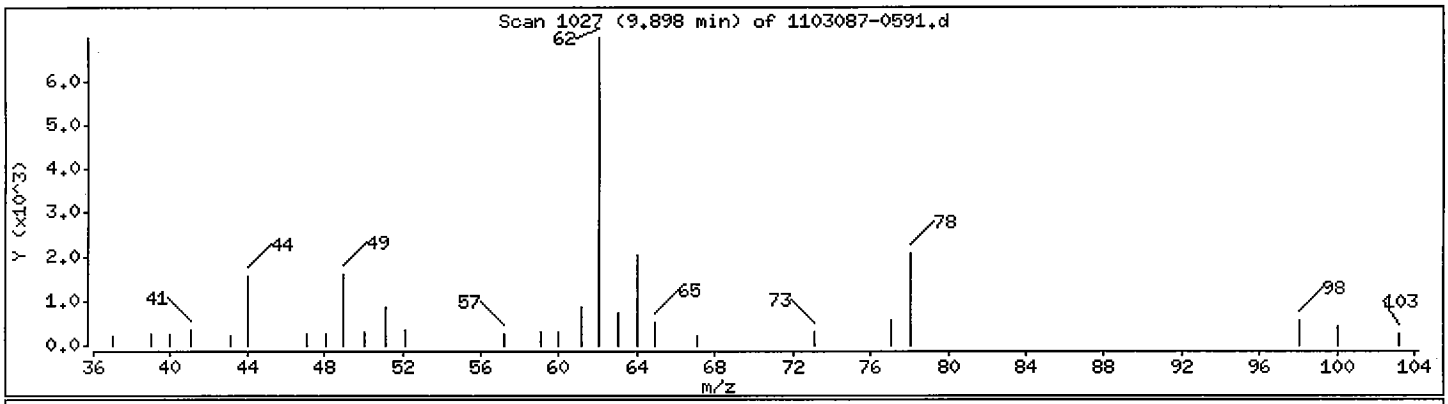
Client ID: MW-12 | Instrument: 5975hpms91.i

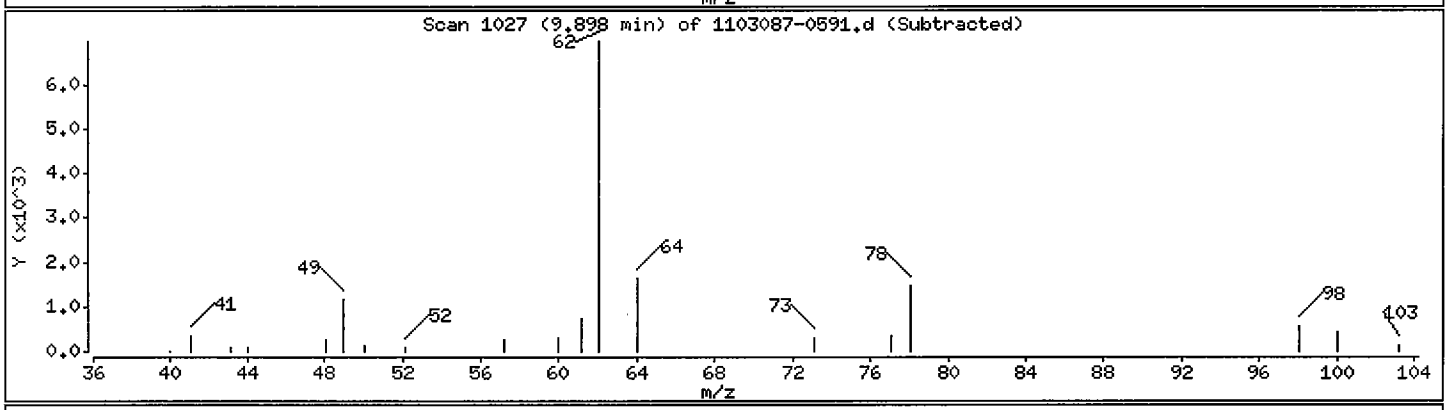
Sample Info: 1103087-05:TD

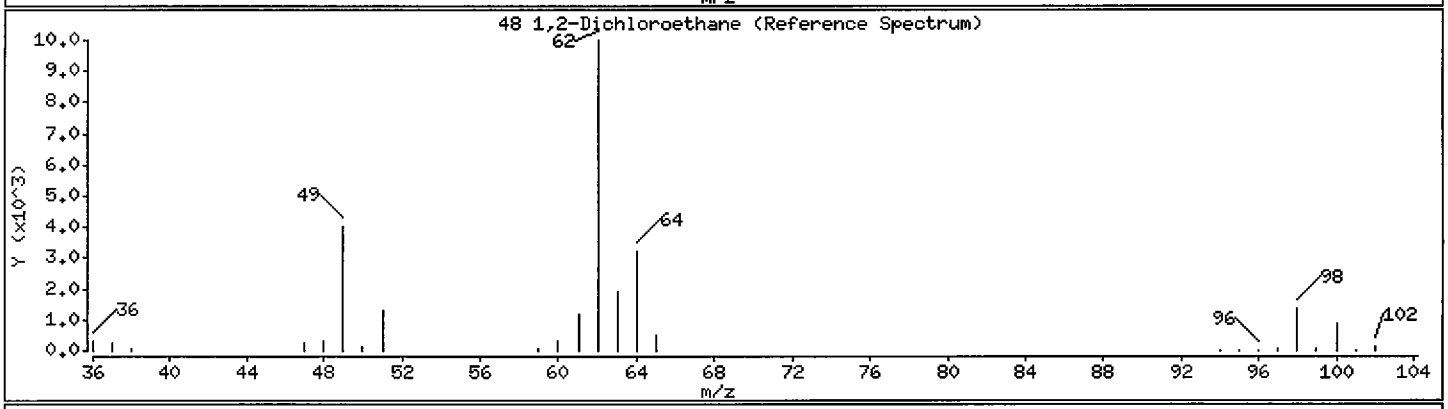
Purge Volume: 25.0 | Operator: TD

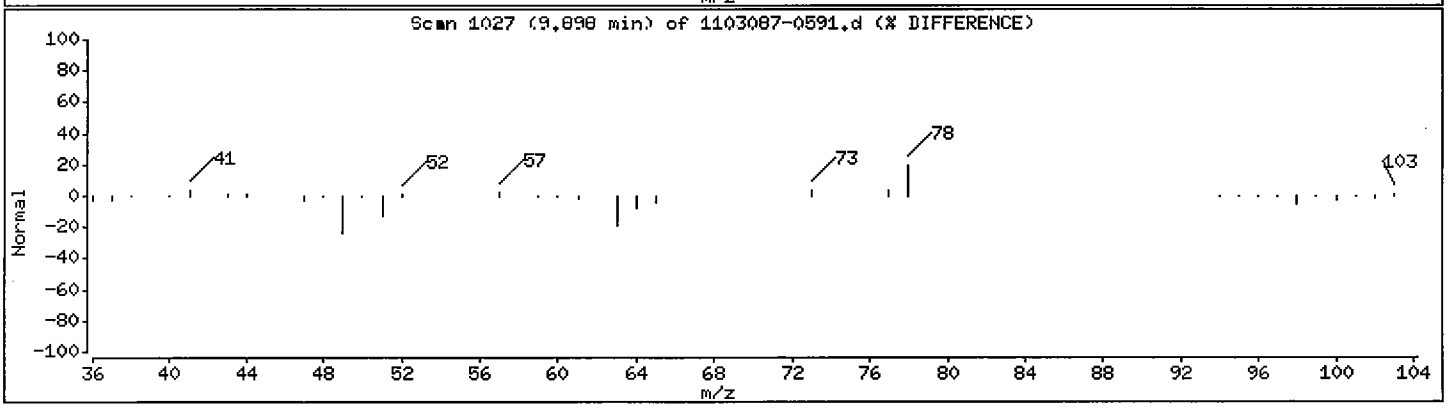
Column phase: SPB-624 | Column diameter: 0.32

48 1,2-Dichloroethane | Concentration: 0.32 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

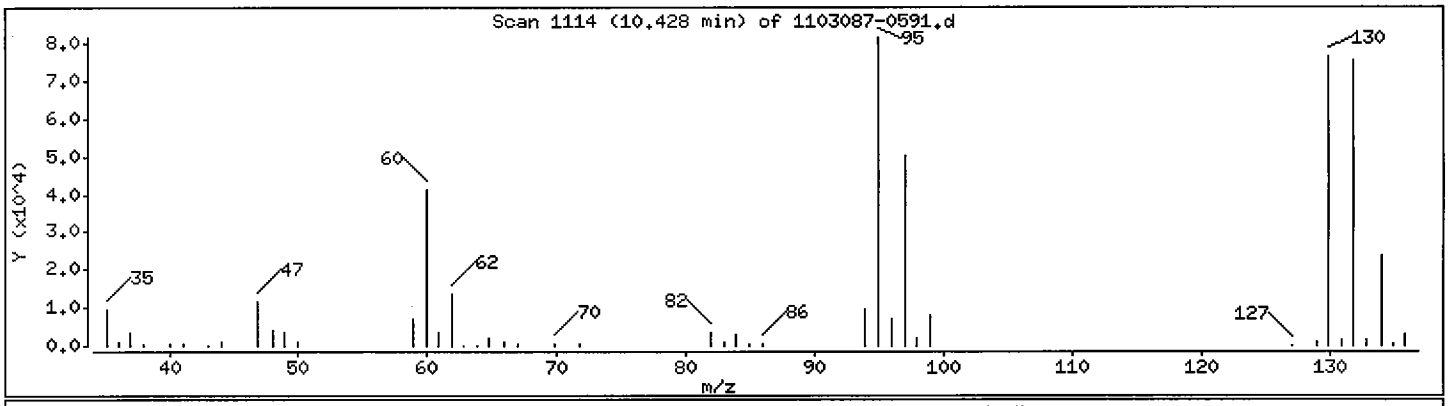
Client ID: MW-12 Instrument: 5975hpms91.i

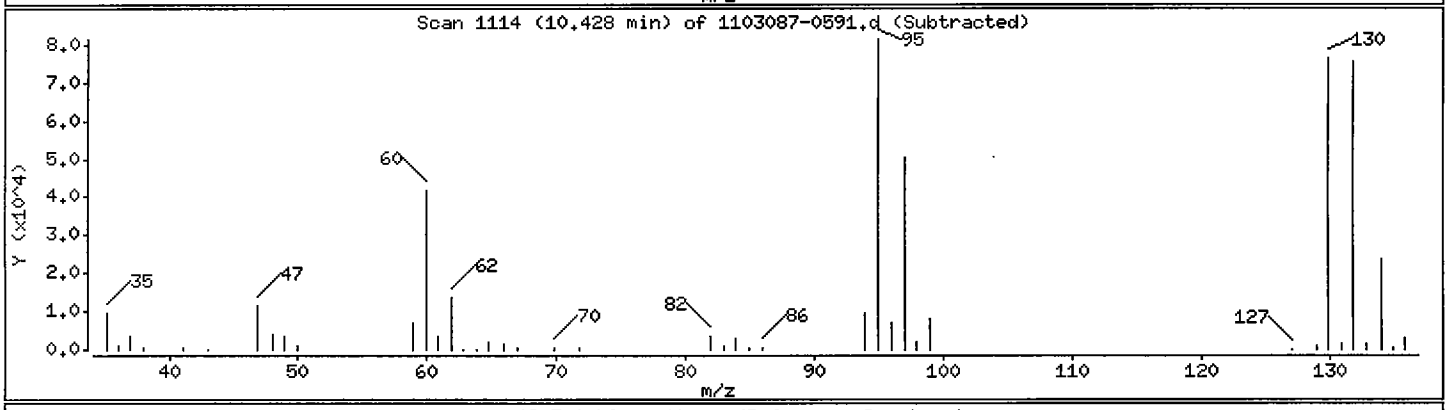
Sample Info: 1103087-05:TD

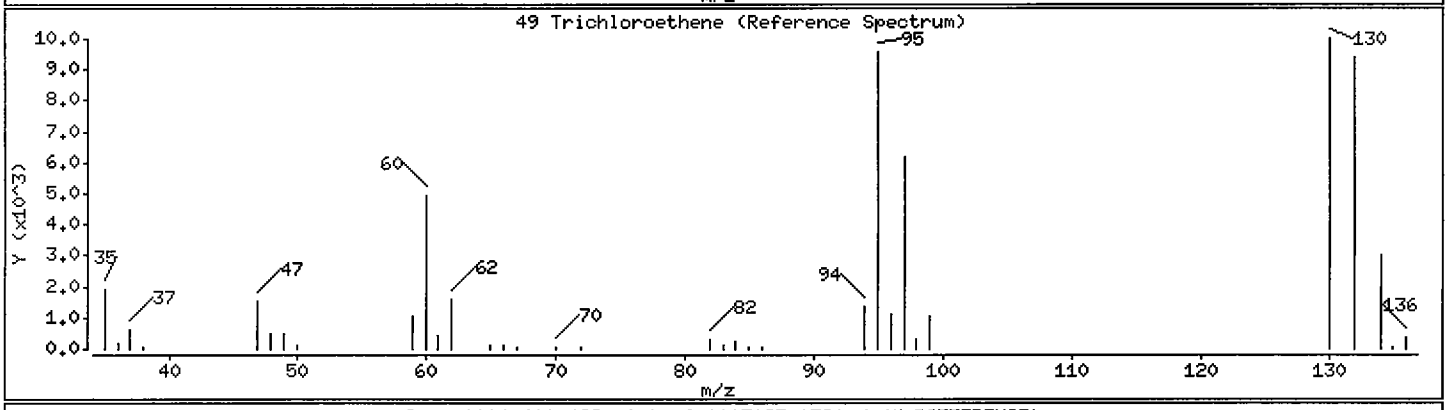
Purge Volume: 25.0 Operator: TD

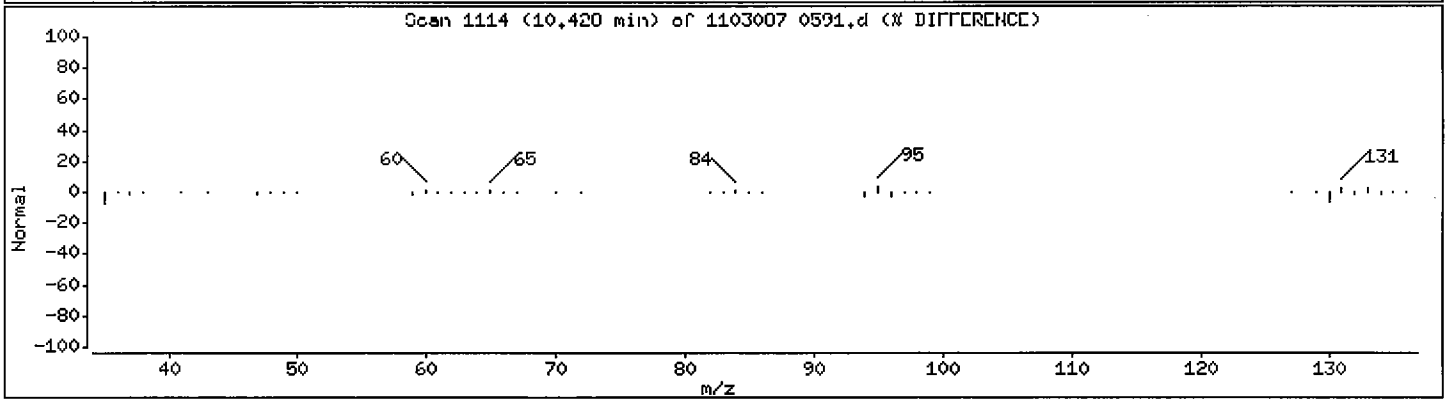
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 3.4 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

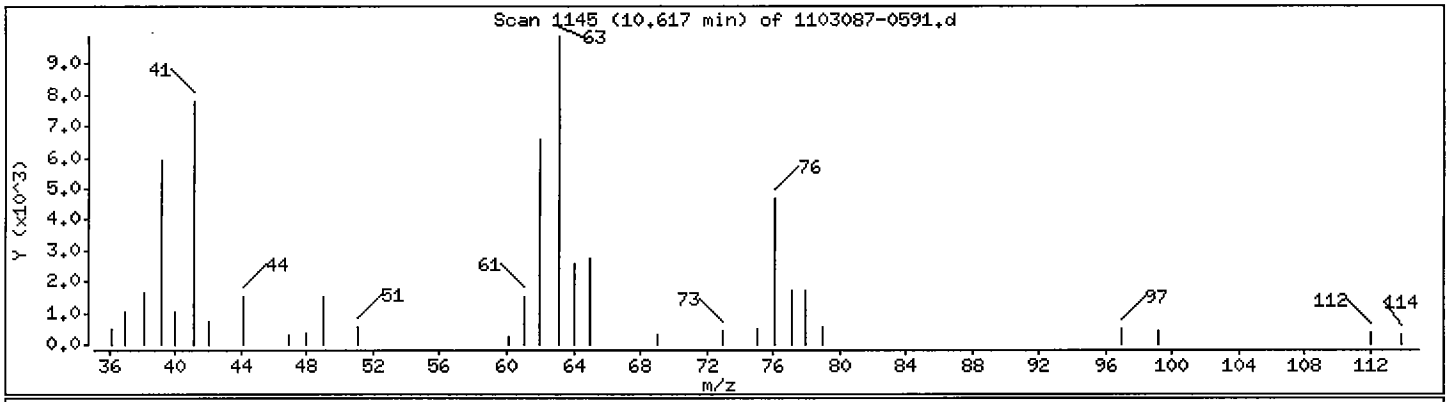
Client ID: MW-12 | Instrument: 5975hpms91.i

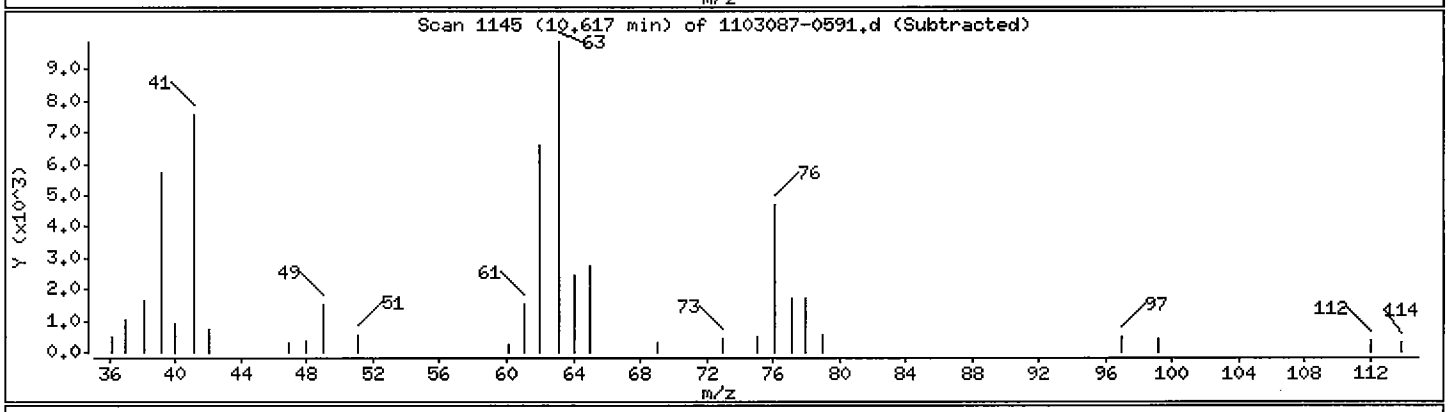
Sample Info: 1103087-05:TD

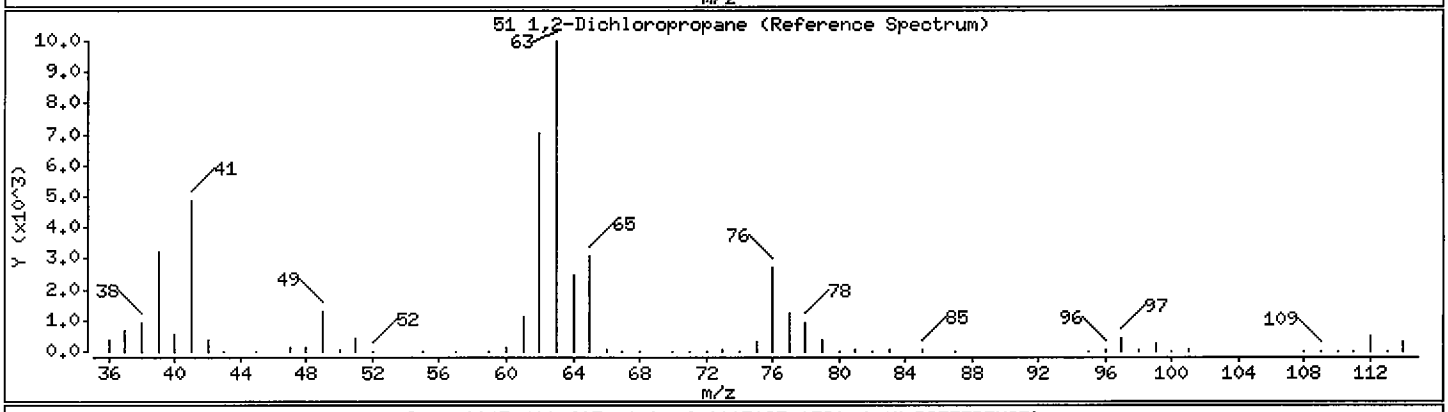
Purge Volume: 25.0 | Operator: TD

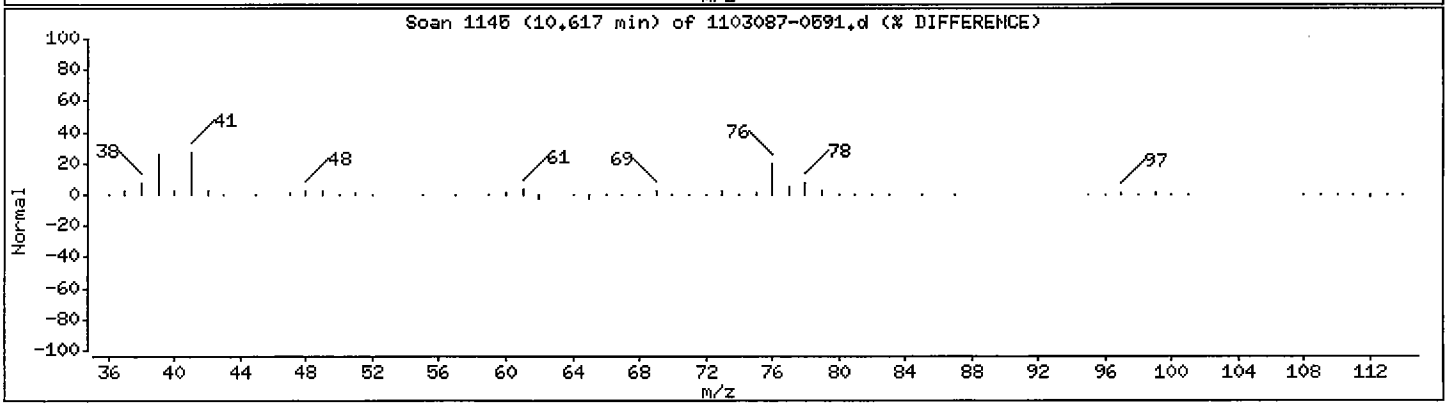
Column phase: SPB-624 | Column diameter: 0.32

51 1,2-Dichloropropane | Concentration: 0.54 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

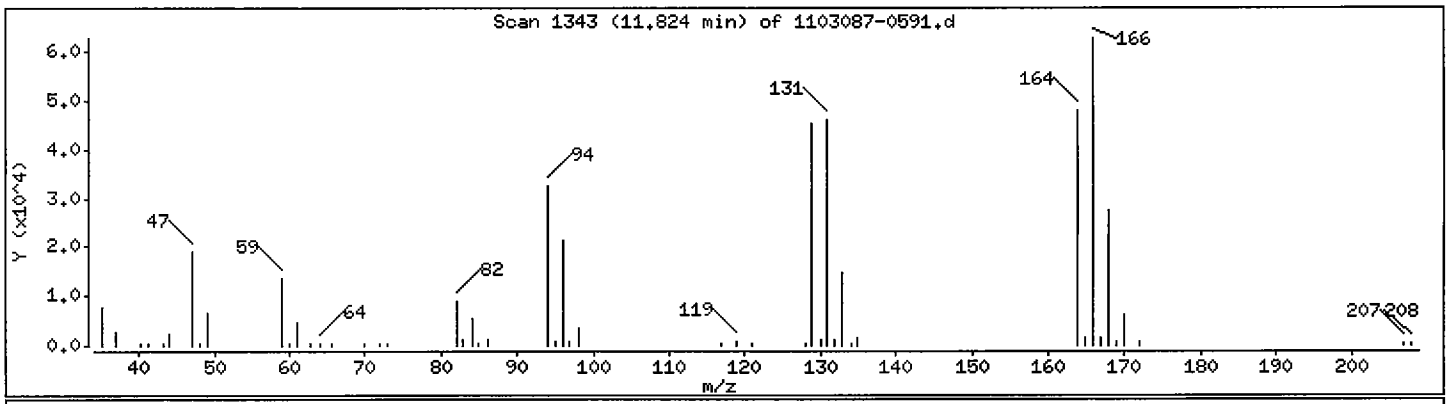
Client ID: MW-12 | Instrument: 5975hpms91.i

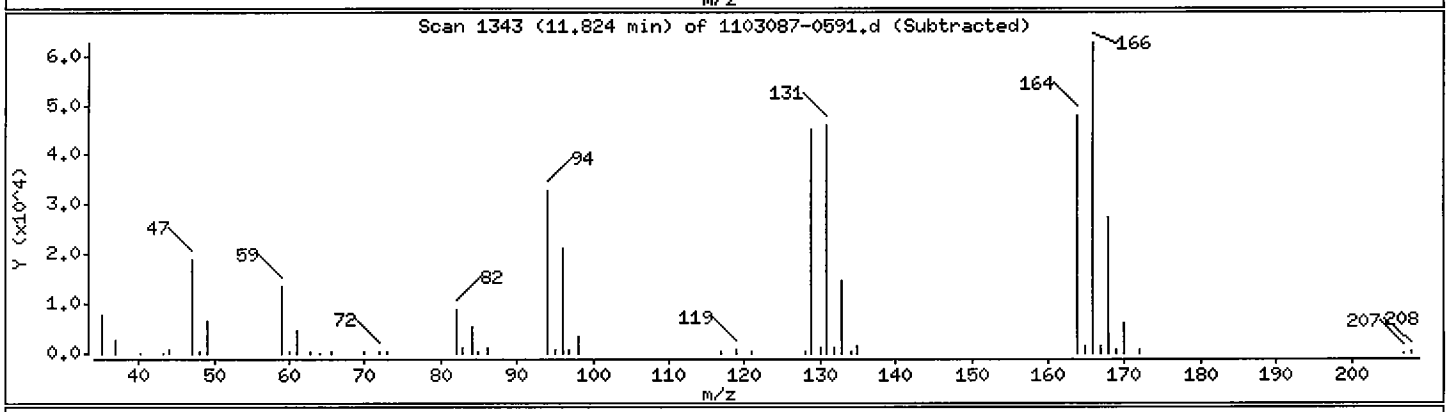
Sample Info: 1103087-05:TD

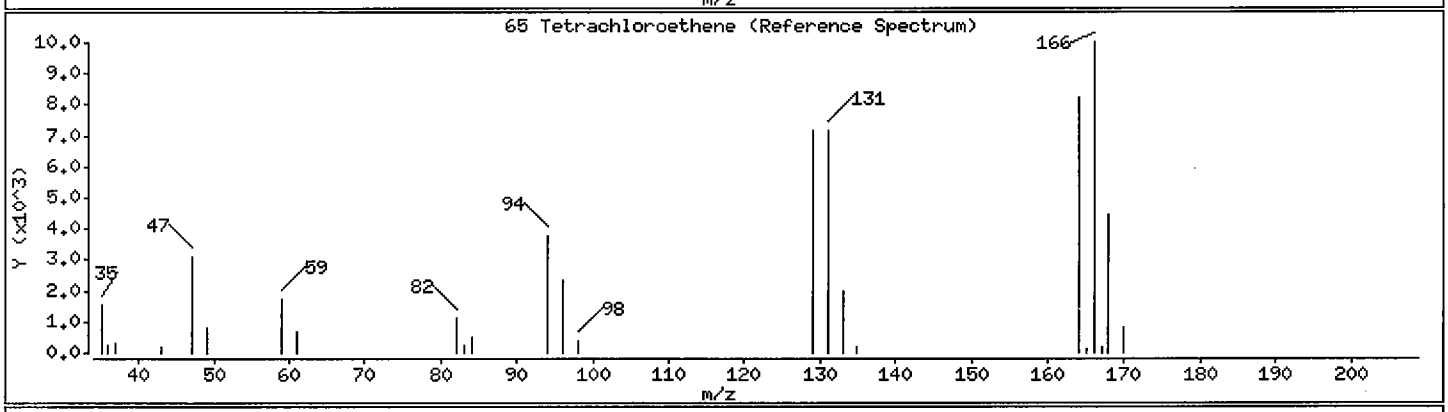
Purge Volume: 25.0 | Operator: TD

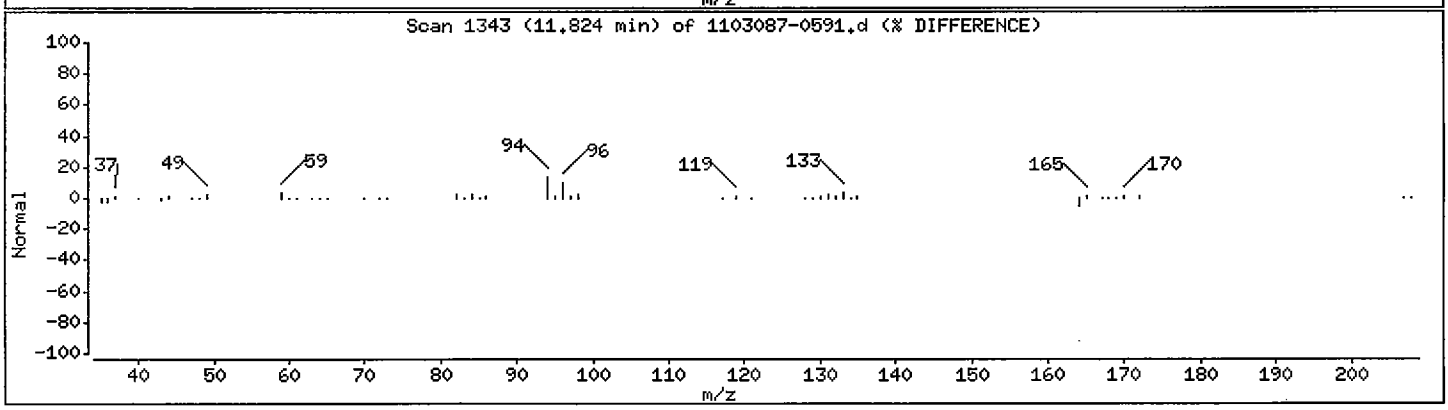
Column phase: SPB-624 | Column diameter: 0.32

65 Tetrachloroethene | Concentration: 1.7 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

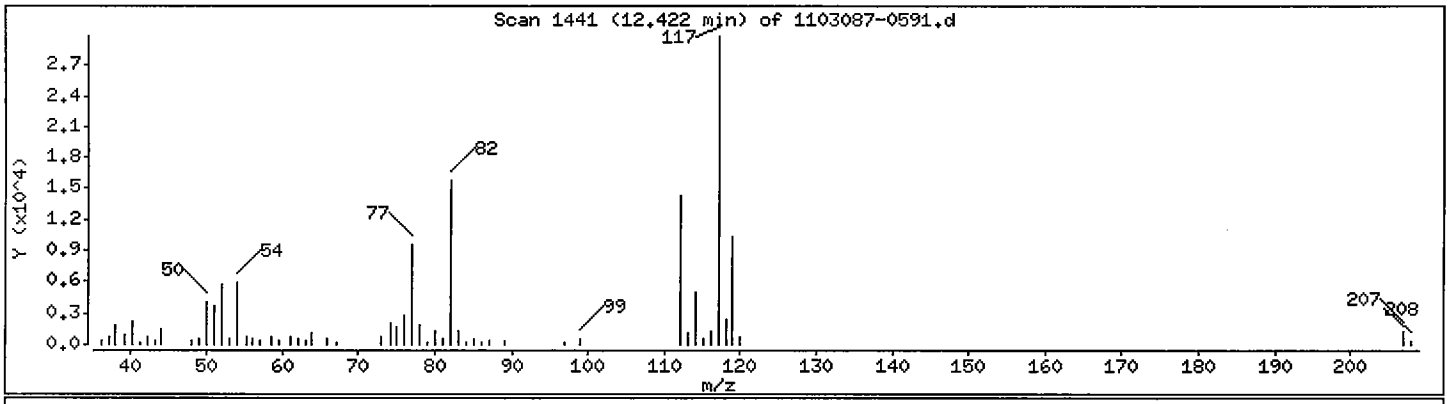
Client ID: MW-12 | Instrument: 5975hpms91.i

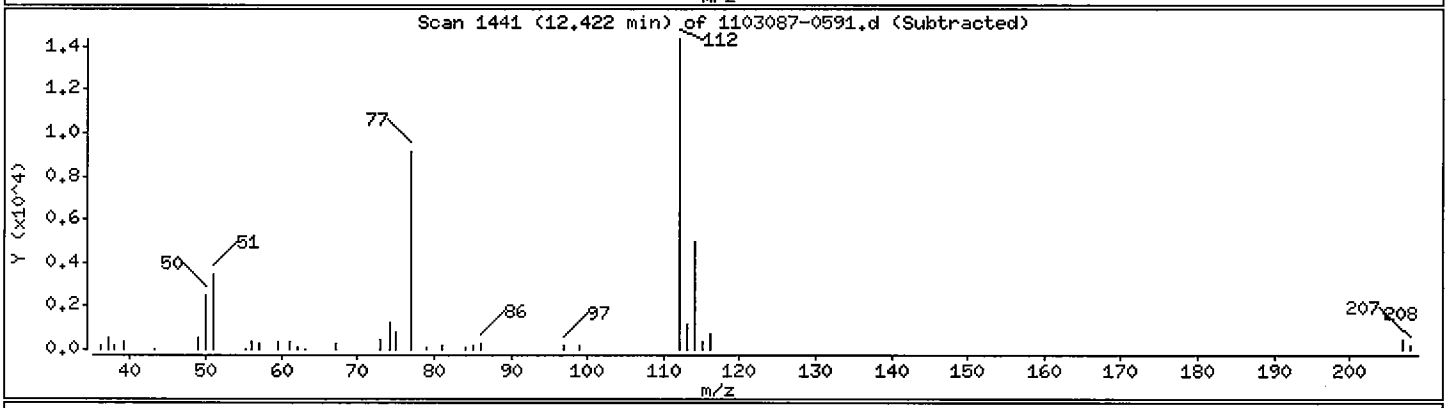
Sample Info: 1103087-05:TD

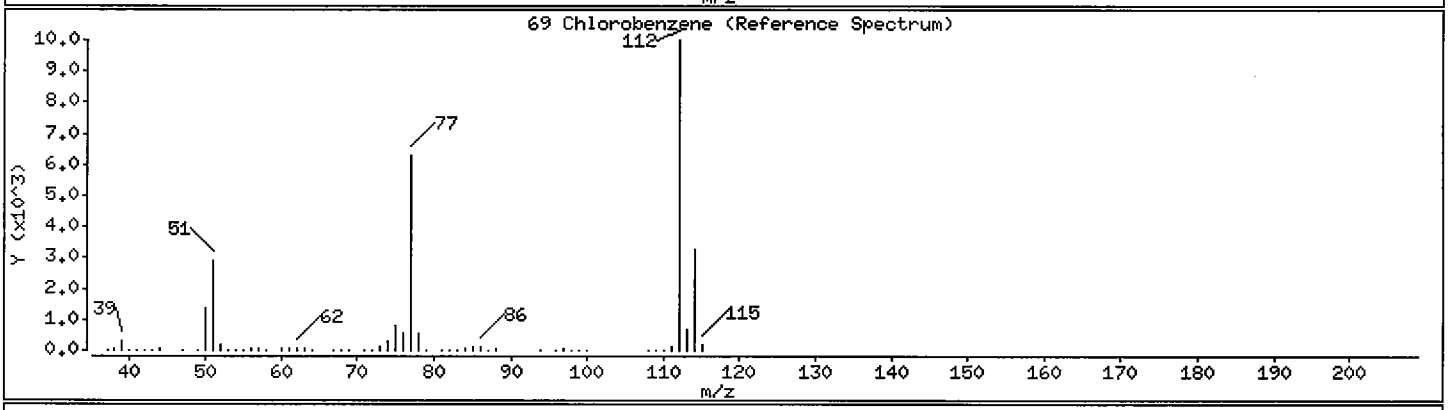
Purge Volume: 25.0 | Operator: TD

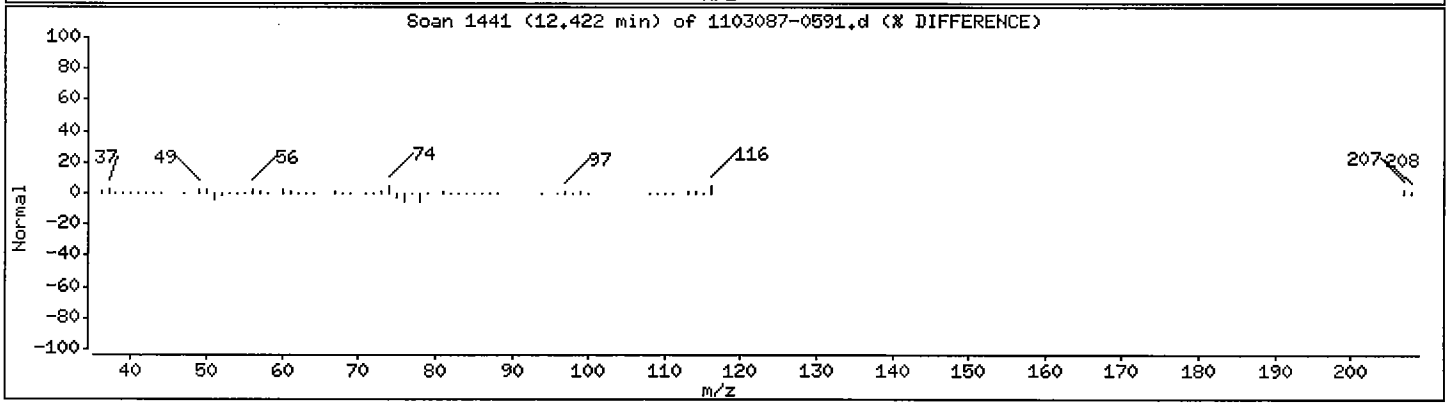
Column phase: SPB-624 | Column diameter: 0.32

69 Chlorobenzene | Concentration: 0.21 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

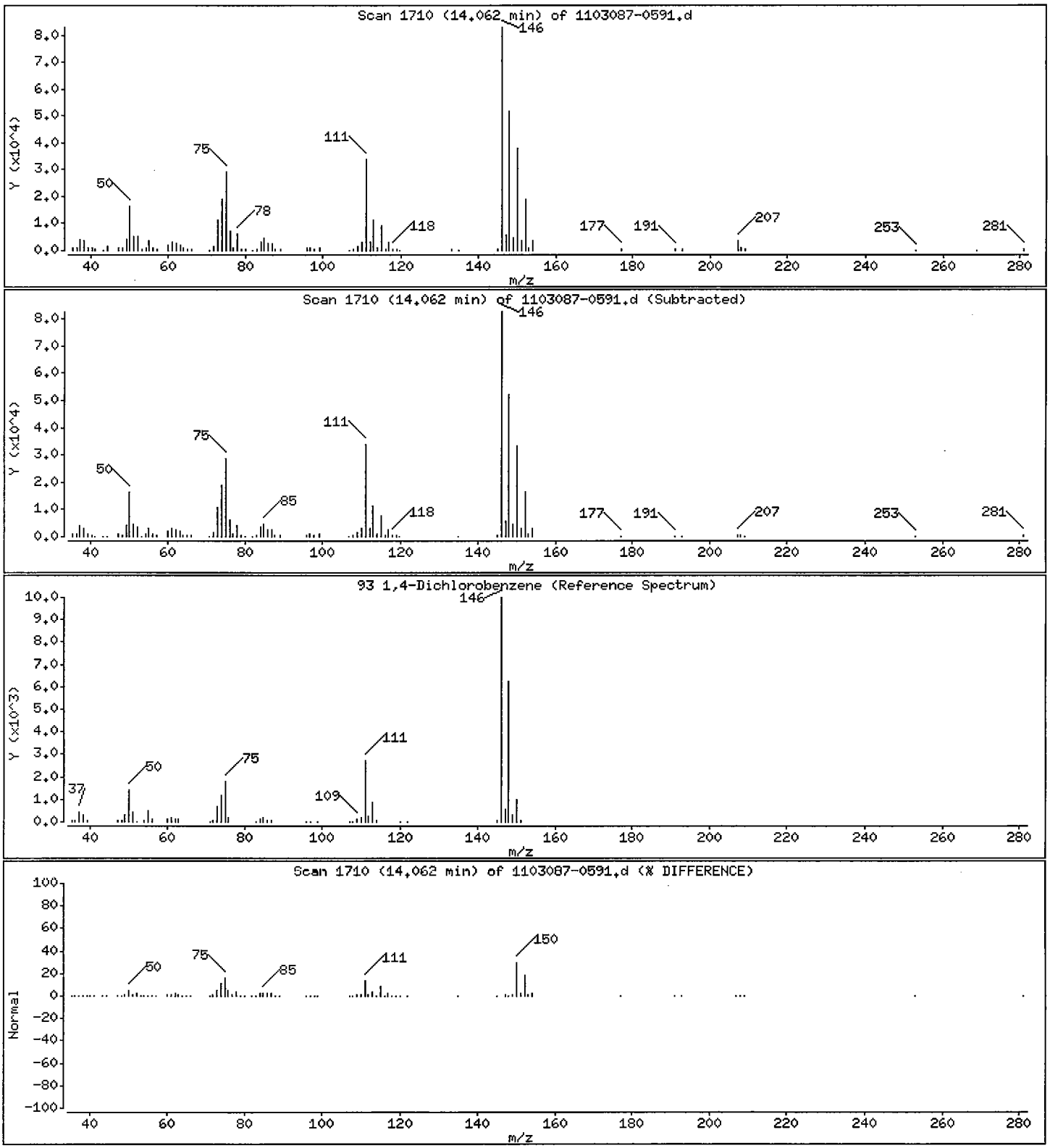
Client ID: MW-12 | Instrument: 5975hpms91.i

Sample Info: 1103087-05:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

93 1,4-Dichlorobenzene | Concentration: 1.7 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

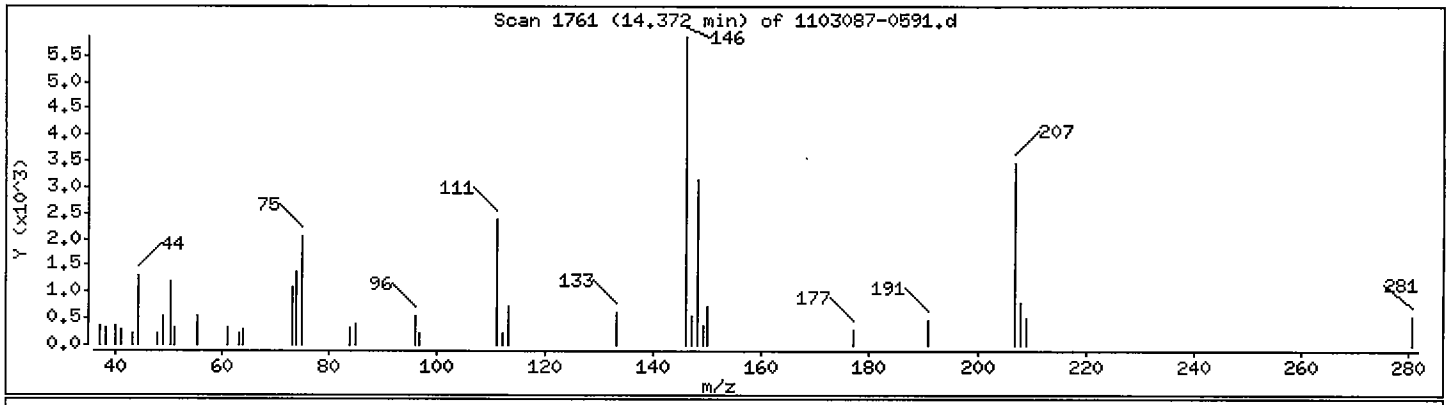
Client ID: MW-12 Instrument: 5975hpms91.i

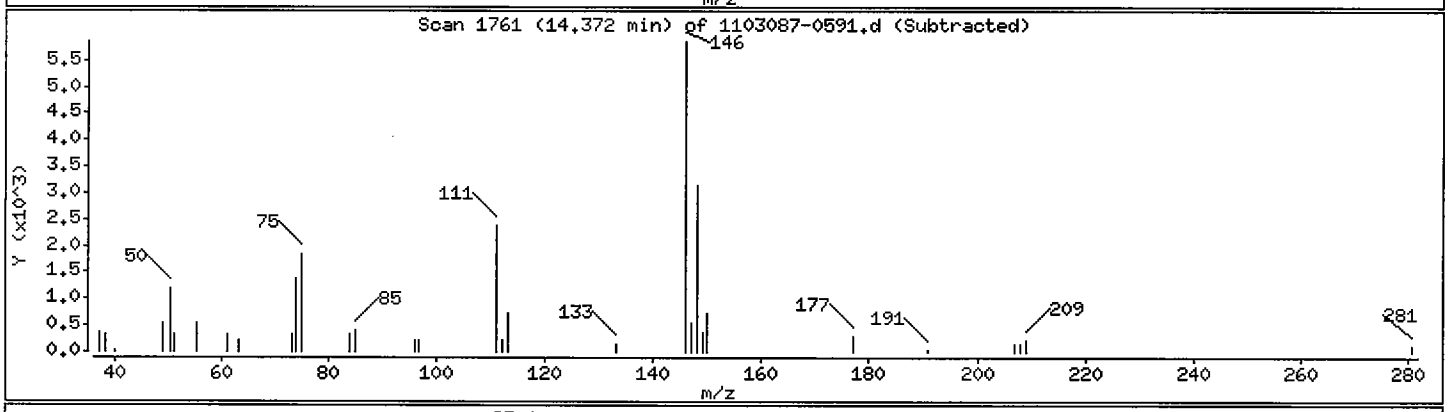
Sample Info: 1103087-05:TD

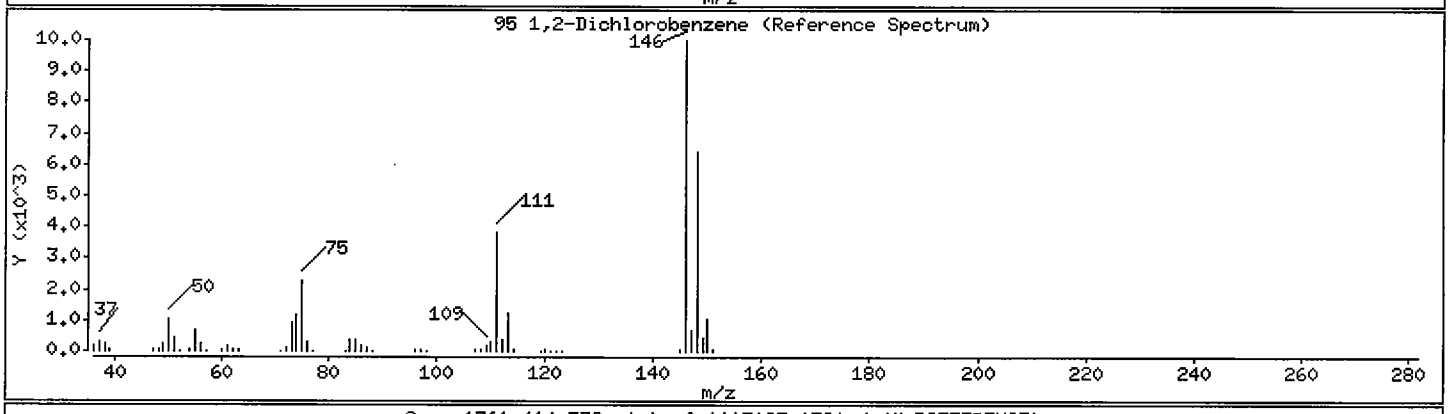
Purge Volume: 25.0 Operator: TD

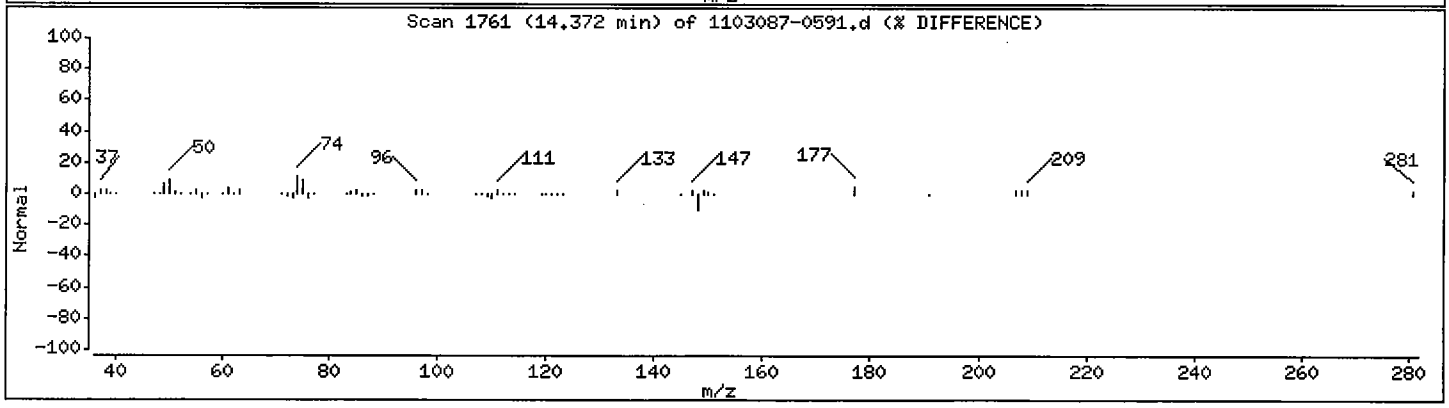
Column phase: SPB-624 Column diameter: 0.32

95 1,2-Dichlorobenzene Concentration: 0.14 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Lab Smp Id: 1103087-05 Client Smp ID: MW-12
Inj Date : 18-MAR-2011 22:21
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-05:TD
Misc Info : MW-12
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	10.111	1293590	125.000
* 2 Chlorobenzene-d5	12.397	1440879	125.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Difluorochloromethane				CAS #: 75-45-6			
3.862	787132	76.0607866	3.0	86	NIS08.l	1829	1
Fluorodichloromethane				CAS #: 75-43-4			
5.905	141937	13.7154301	0.55	97	NIS08.l	4467	1

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d
Report Date: 22-Mar-2011 11:58

RT	AREA	CONCENTRATIONS ON-COL(ng)	FINAL(ug/L)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Ethyl ether				CAS #: 60-29-7			
6.490	829300	80.1355038	3.2	86	NIS08.l	838	1
Unknown				CAS #:			
10.910	55012	5.31578191	0.21	0		0	1
1,3-Dichloro-2-methyl-propene				CAS #: 1000194-02-2			
12.123	92939	8.06270084	0.32	91	NIS08.l	10171	2

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

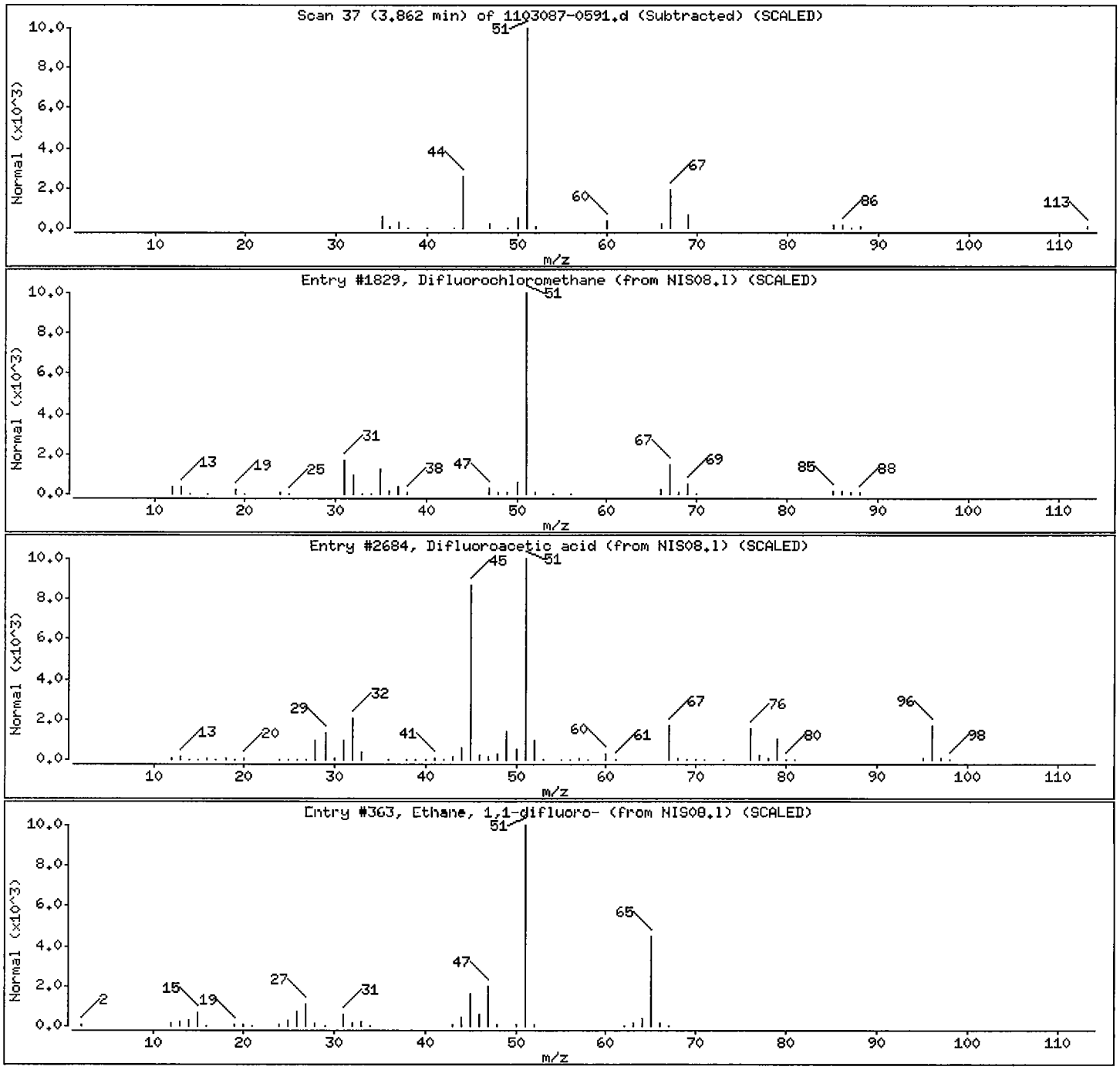
Client ID: MW-12 Instrument: 5975hpms91.i

Sample Info: 1103087-05:TD

Purge Volume: 25.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Difluorochloromethane	75-45-6	NIS08.l	1829	86	CHClF2	86
Difluoroacetic acid	381-73-7	NIS08.l	2684	9	C2H2F2O2	96
Ethane, 1,1-difluoro-	75-37-6	NIS08.l	363	4	C2H4F2	66



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

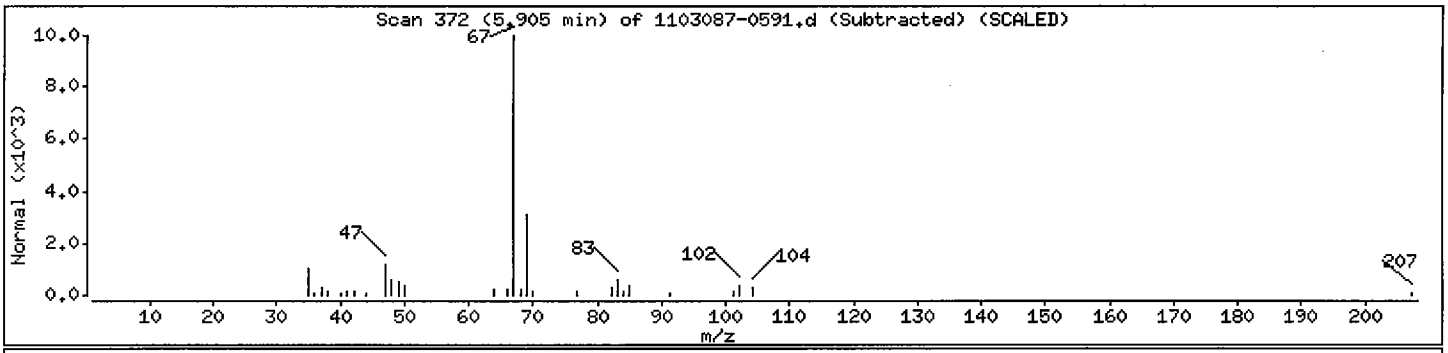
Client ID: MW-12 Instrument: 5975hpms91.i

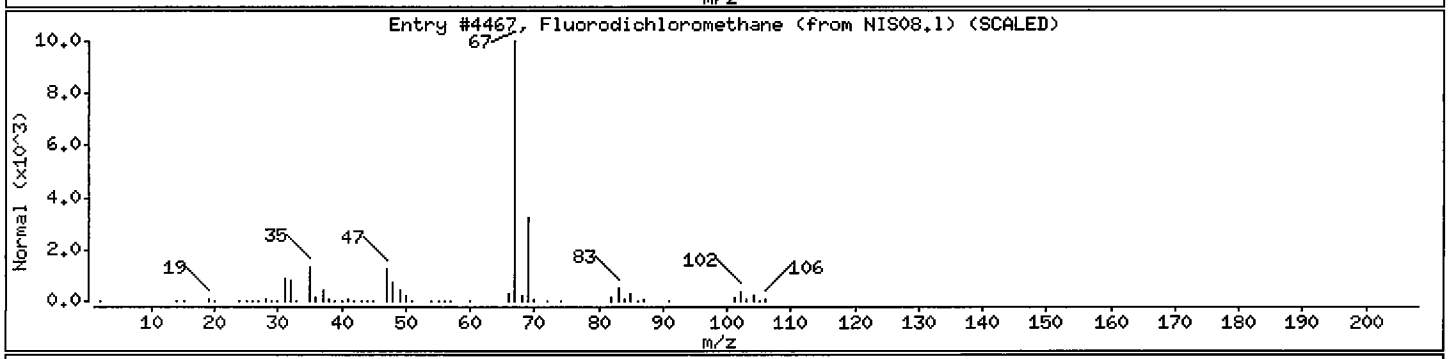
Sample Info: 1103087-05:TD

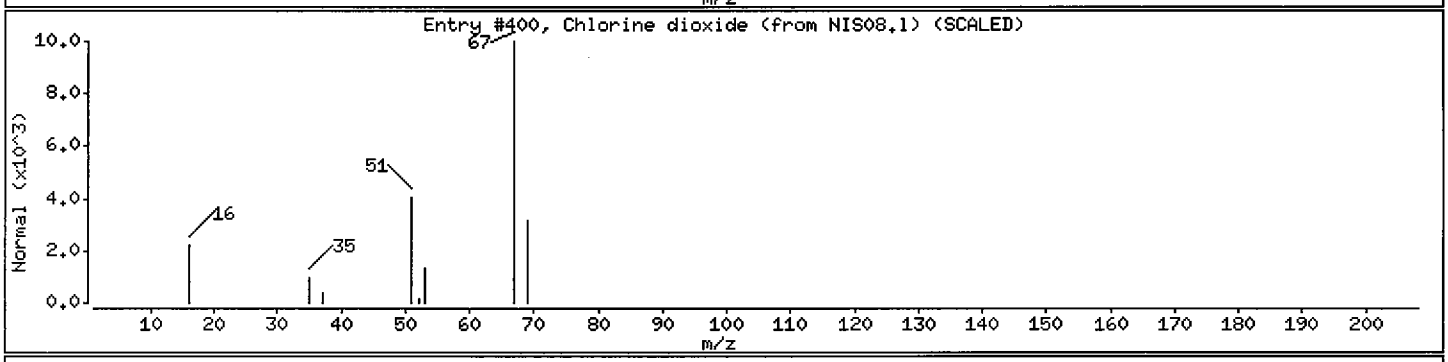
Purge Volume: 25.0 Operator: TD

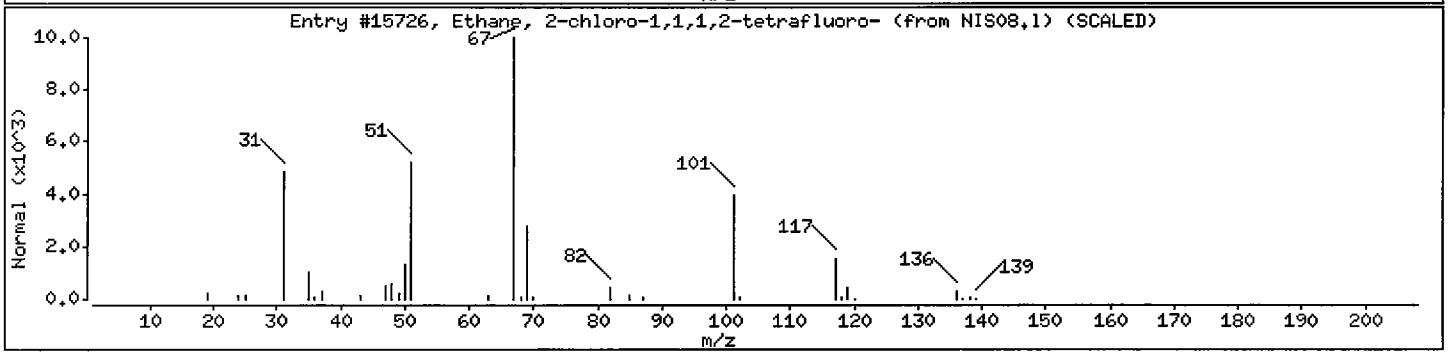
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Fluorodichloromethane	75-43-4	NIS08.1	4467	97	CHCl2F	102
Chlorine dioxide	10049-04-4	NIS08.1	400	42	ClO2	67
Ethane, 2-chloro-1,1,1,2-tetrafluoro-	2837-89-0	NIS08.1	15726	9	C2HClF4	136









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

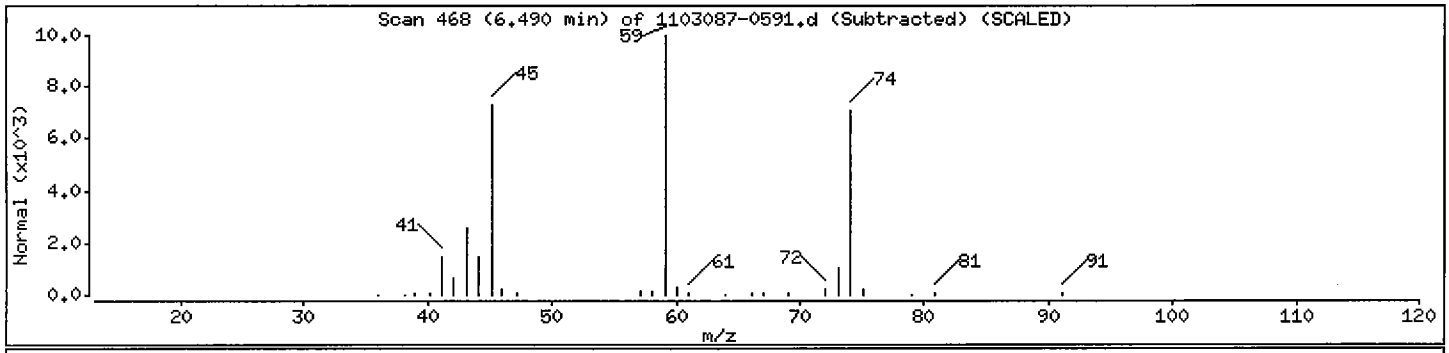
Client ID: MW-12 Instrument: 5975hpms91.i

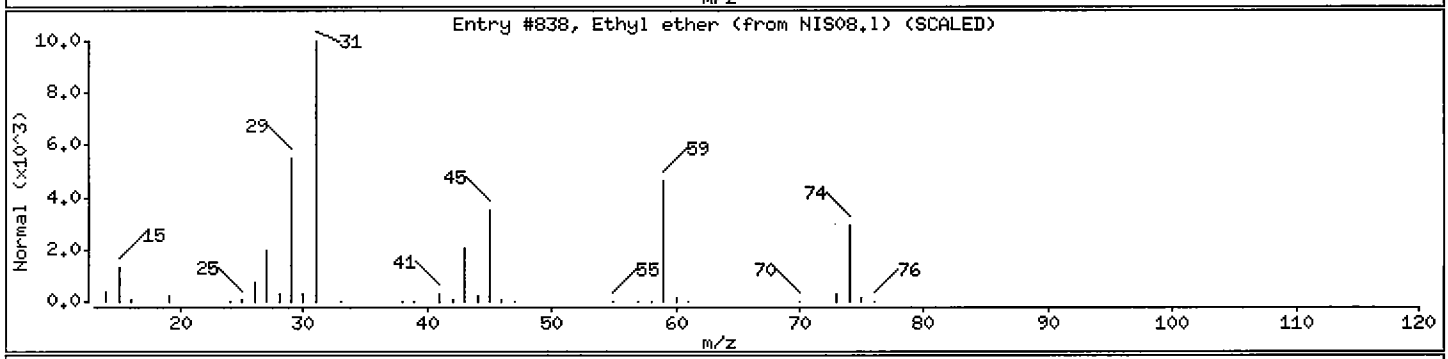
Sample Info: 1103087-05:TD

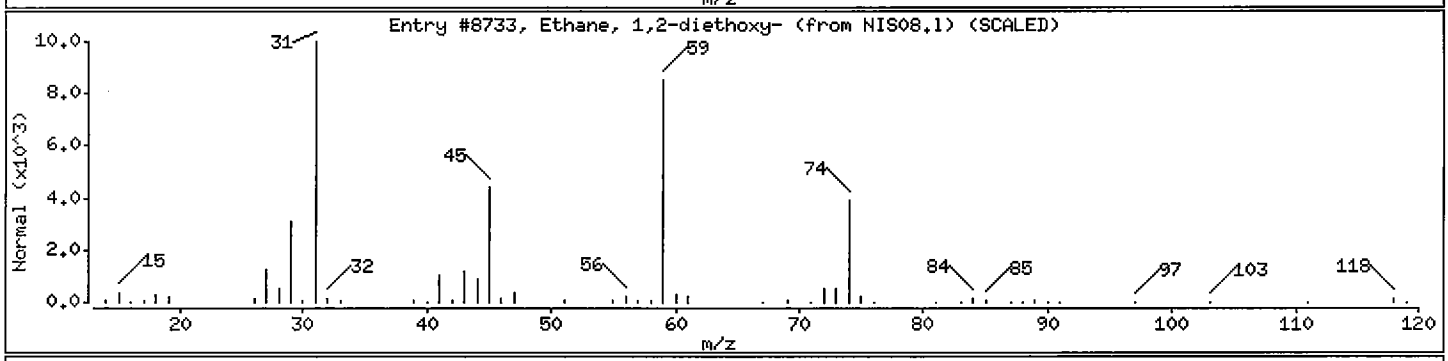
Purge Volume: 25.0 Operator: TD

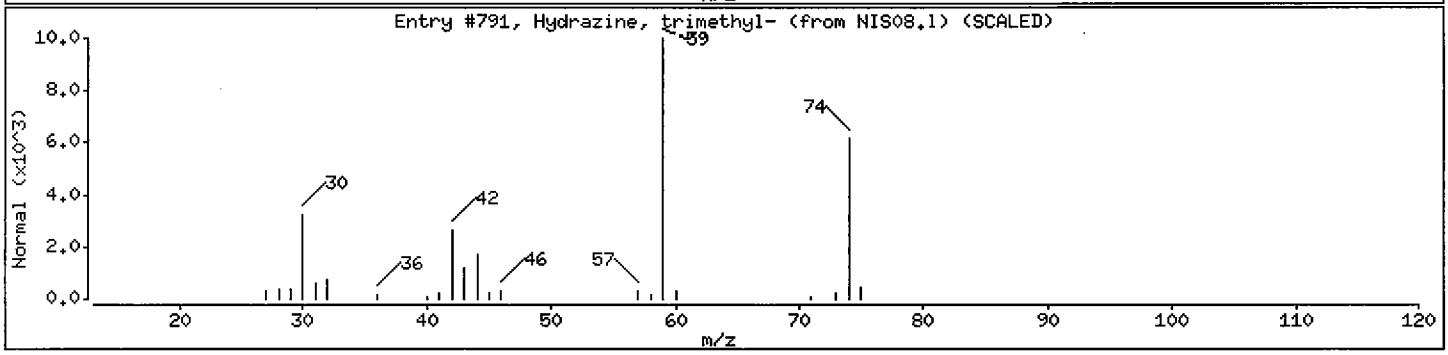
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Ethyl ether	60-29-7	NIS08.1	838	86	C4H10O	74
Ethane, 1,2-diethoxy-	629-14-1	NIS08.1	8733	64	C6H14O2	118
Hydrazine, trimethyl-	1741-01-1	NIS08.1	791	53	C3H10N2	74









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

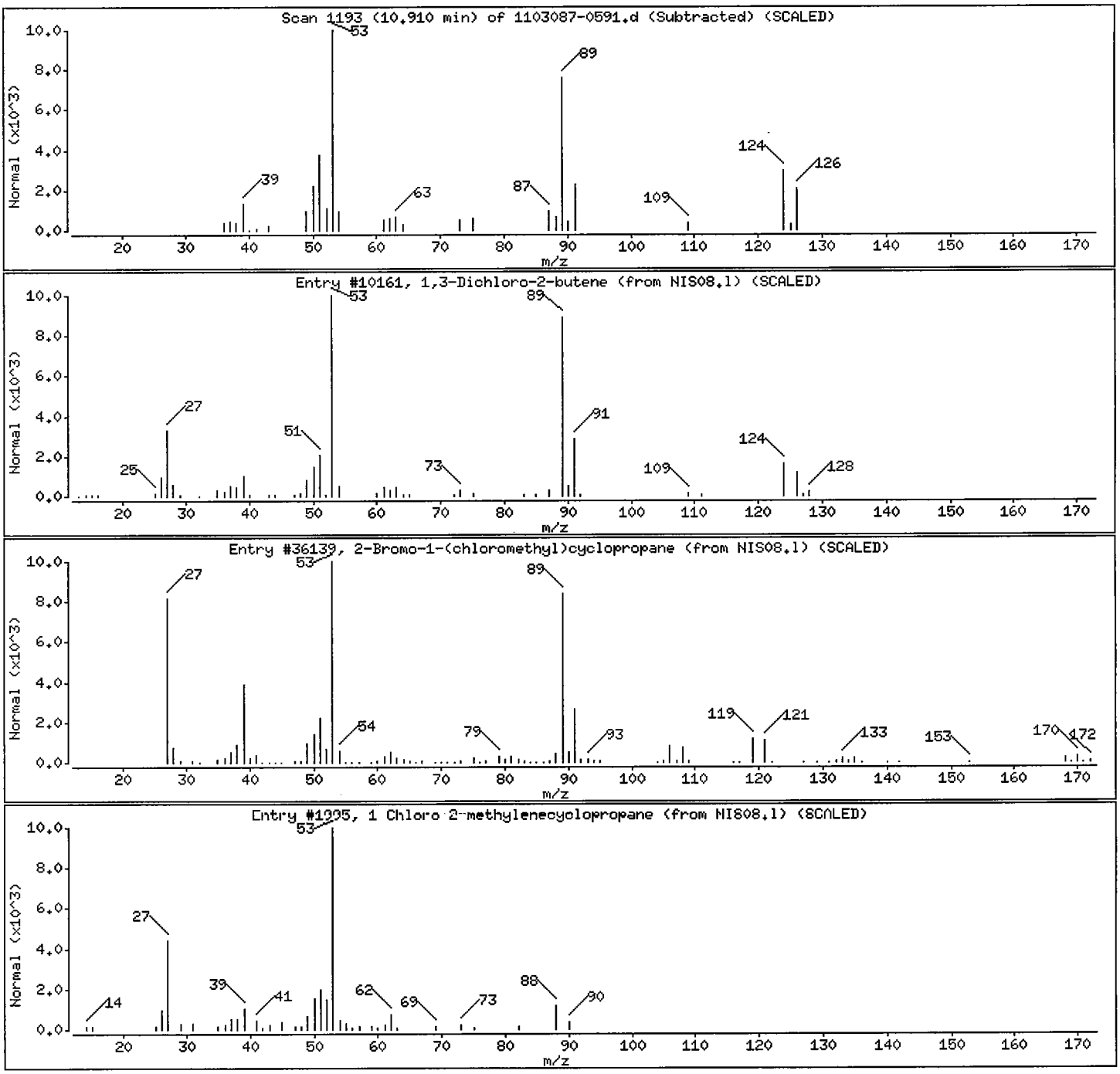
Client ID: MW-12 Instrument: 5975hpms91.i

Sample Info: 1103087-05:TD

Purge Volume: 25.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Dichloro-2-butene	926-57-8	NIS08.l	10161	78	C4H6Cl2	124
2-Bromo-1-(chloromethyl)cyclopropane	1000222-15-8	NIS08.l	36139	40	C4H6BrCl	168
1-Chloro-2-methylenecyclopropane	70302-78-2	NIS08.l	1995	38	C4H5Cl	88



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0591.d

Date : 18-MAR-2011 22:21

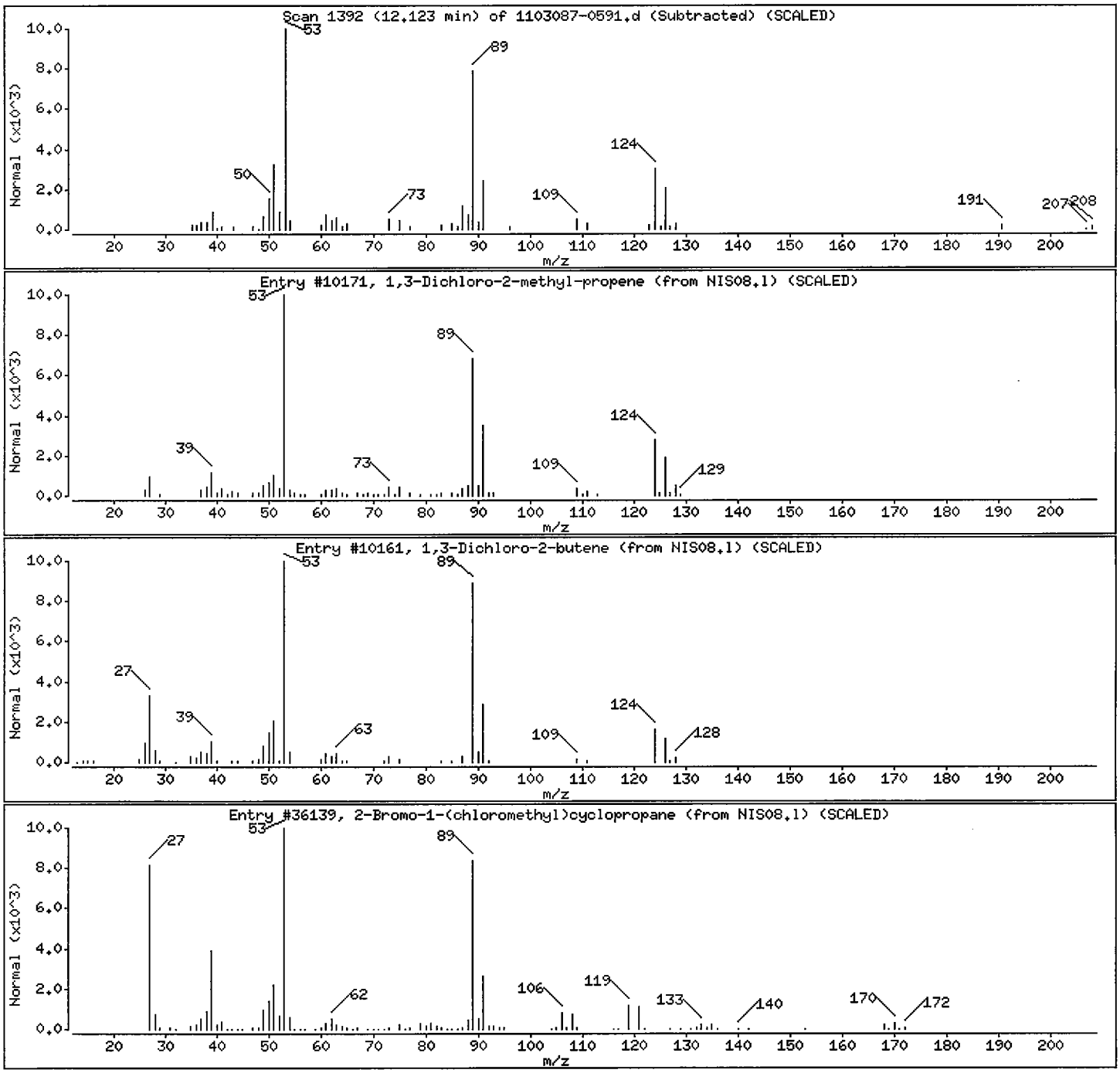
Client ID: MW-12 Instrument: 5975hpms91.i

Sample Info: 1103087-05:TD

Purge Volume: 25.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
1,3-Dichloro-2-methyl-propene	1000194-02-2	NIS08.1	10171	91	C4H6Cl2	124
1,3-Dichloro-2-butene	926-57-8	NIS08.1	10161	64	C4H6Cl2	124
2-Bromo-1-(chloromethyl)cyclopropane	1000222-15-8	NIS08.1	36139	64	C4H6BrCl	168



ANALYSIS DATA SHEET

SW 8260B

MW-17

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0691.d | Sampled: 03/17/11 12:40

Initial/Final: 25mL / 25mL | Lab ID: 1103087-06 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:50

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.43	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene	0.059	0.050	0.50	J
75-34-3	1,1-Dichloroethane	2.0	0.020	0.50	
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene	3.5	0.030	0.50	
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene	0.66	0.030	0.50	
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

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ANALYSIS DATA SHEET

SW 8260B

MW-17

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0691.d | Sampled: 03/17/11 12:40

Initial/Final: 25mL / 25mL | Lab ID: 1103087-06 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 22:50

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene	0.53	0.060	0.50	
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.508	110	65 - 150	
1,2-Dichloroethane-d4	5.000	5.338	107	59 - 150	
Toluene-d8	5.000	5.333	107	61 - 145	
Bromofluorobenzene	5.000	4.896	98	63 - 143	

CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q
NA	Unknown 7.105	0.19	48498	7.105	0	J

Environmental Testing Laboratories
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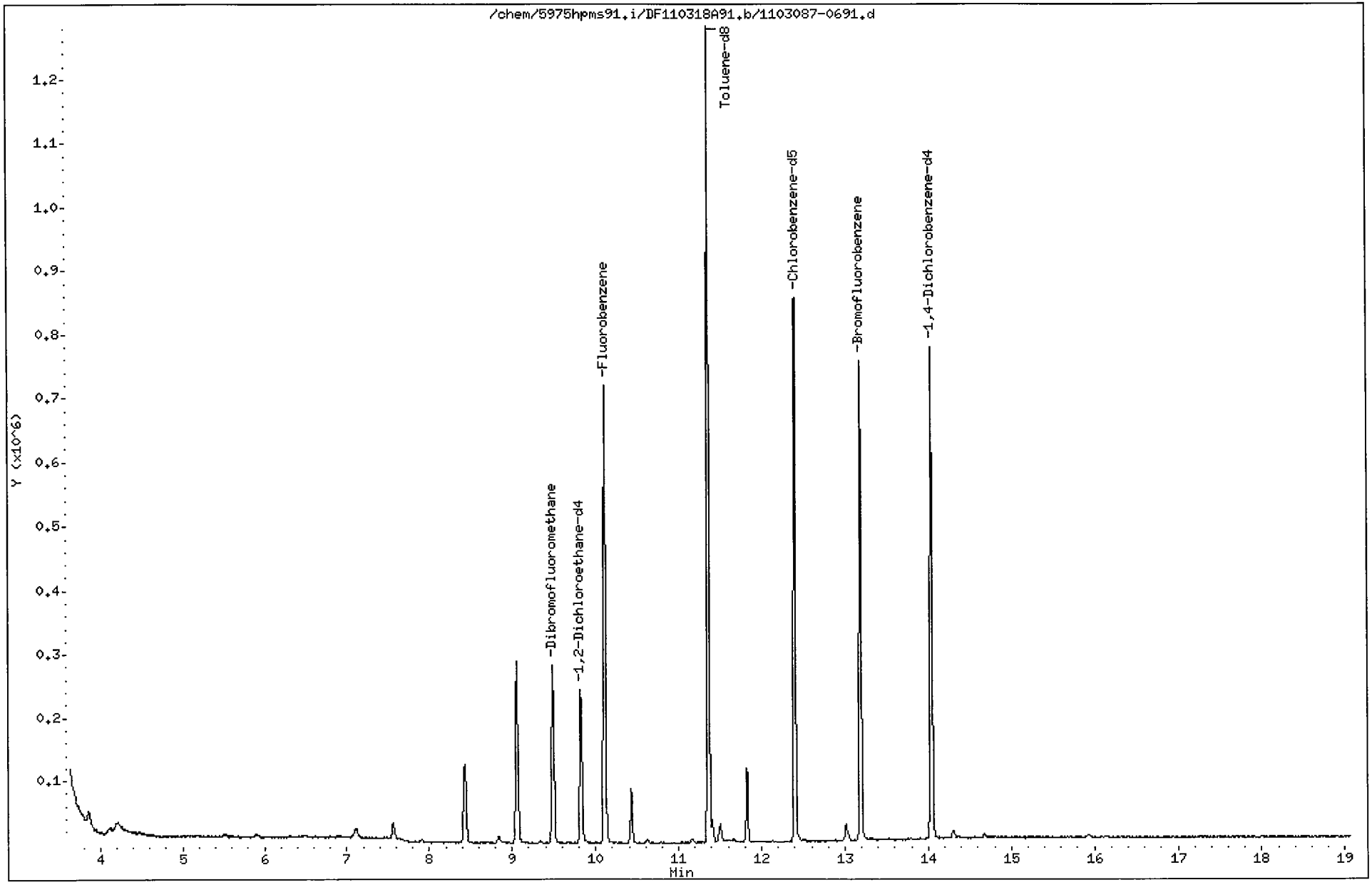
Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Date : 18-MAR-2011 22:50
Client ID: MW-17
Sample Info: 1103087-06:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i

Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Lab Smp Id: 1103087-06 Client Smp ID: MW-17
Inj Date : 18-MAR-2011 22:50
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-06:TD
Misc Info : MW-17
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	582442	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	419700	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	201048	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.938)	166890	137.704	5.5
$ 5 1,2-Dichloroethane-d4	65	9.824	9.825	(0.972)	170710	133.453	5.3
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	719909	133.318	5.3
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.940)	249185	122.395	4.9
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.563	7.563	(0.748)	12011	10.8433	0.43(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	7.916	7.910	(0.783)	2109	1.48501	0.059(a)
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.434	8.435	(0.834)	131167	50.3812	2.0
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	9.062	9.057	(0.896)	126455	87.3282	3.5
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	10.428	10.428	(1.031)	24863	16.6199	0.66
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	11.824	11.824	(0.953)	22682	13.2912	0.53
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

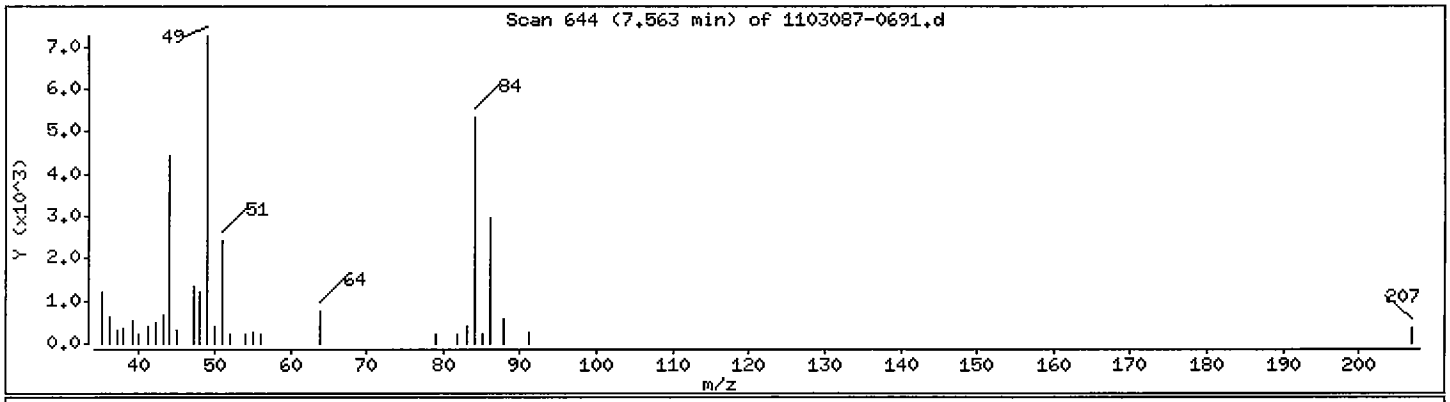
Client ID: MW-17 | Instrument: 5975hpms91.i

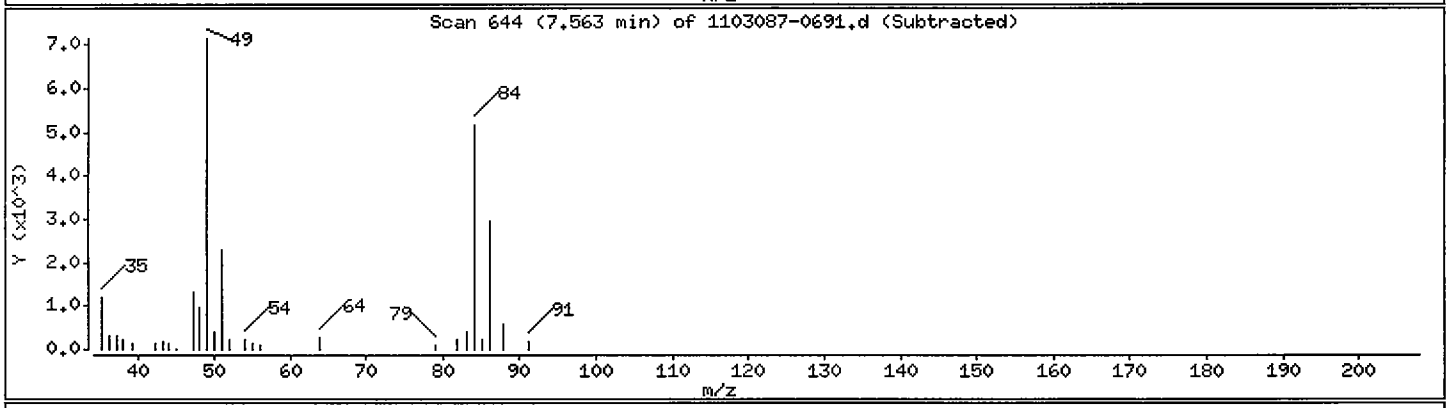
Sample Info: 1103087-06:TD

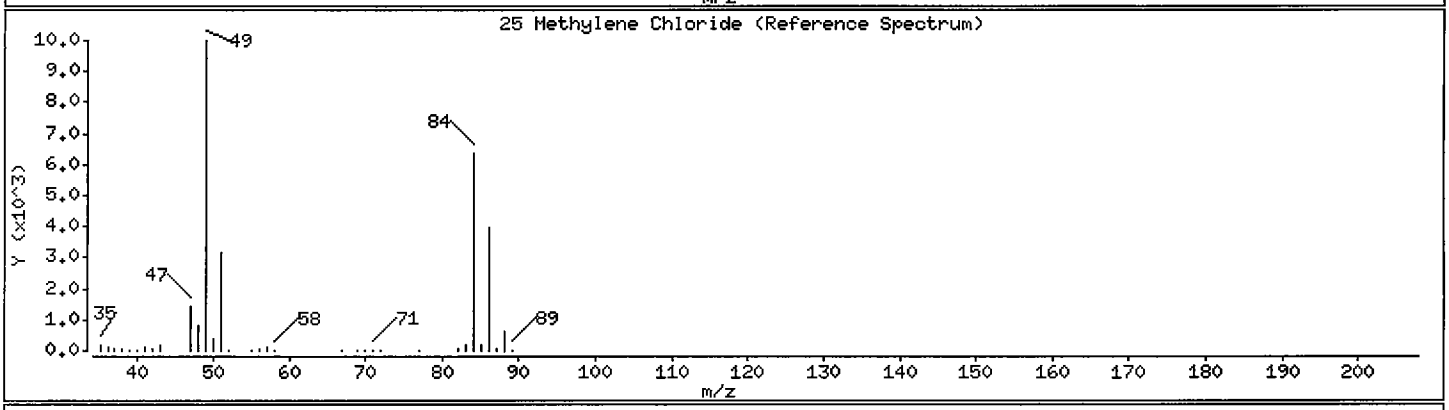
Purge Volume: 25.0 | Operator: TD

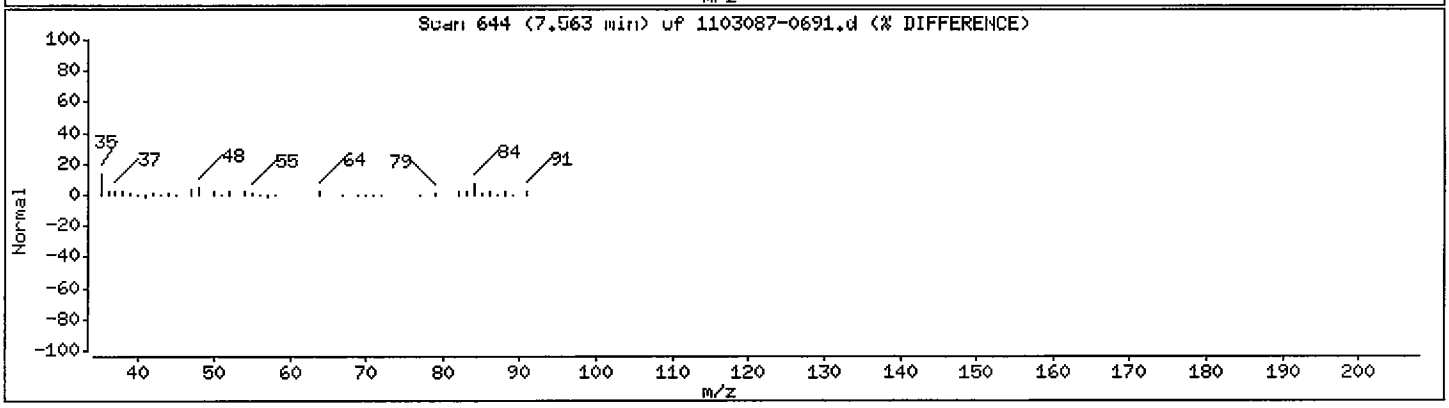
Column phase: SPB-624 | Column diameter: 0.32

25 Methylene Chloride | Concentration: 0.43 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

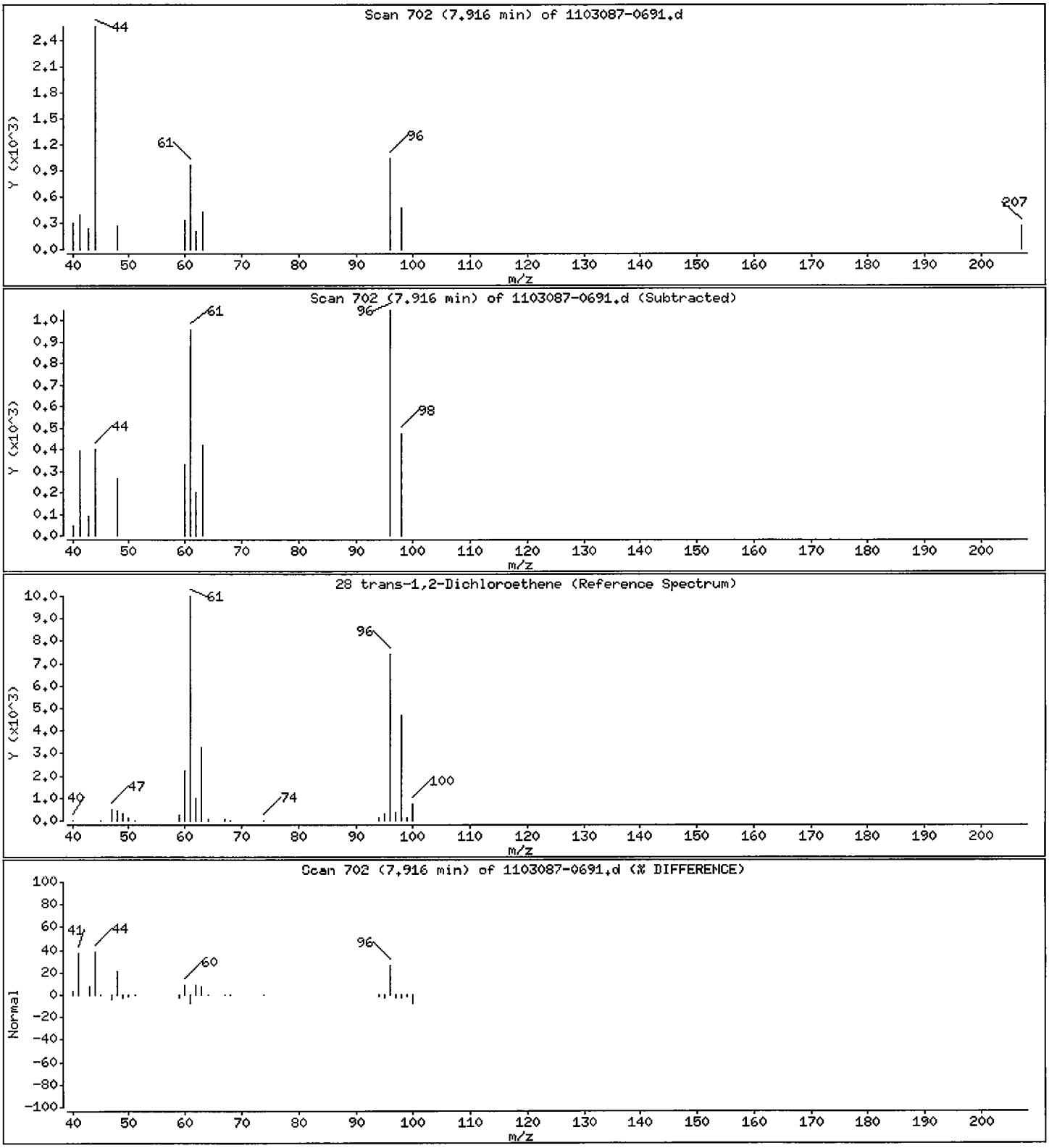
Client ID: MW-17 | Instrument: 5975hpms91.i

Sample Info: 1103087-06:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

28 trans-1,2-Dichloroethene | Concentration: 0.059 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

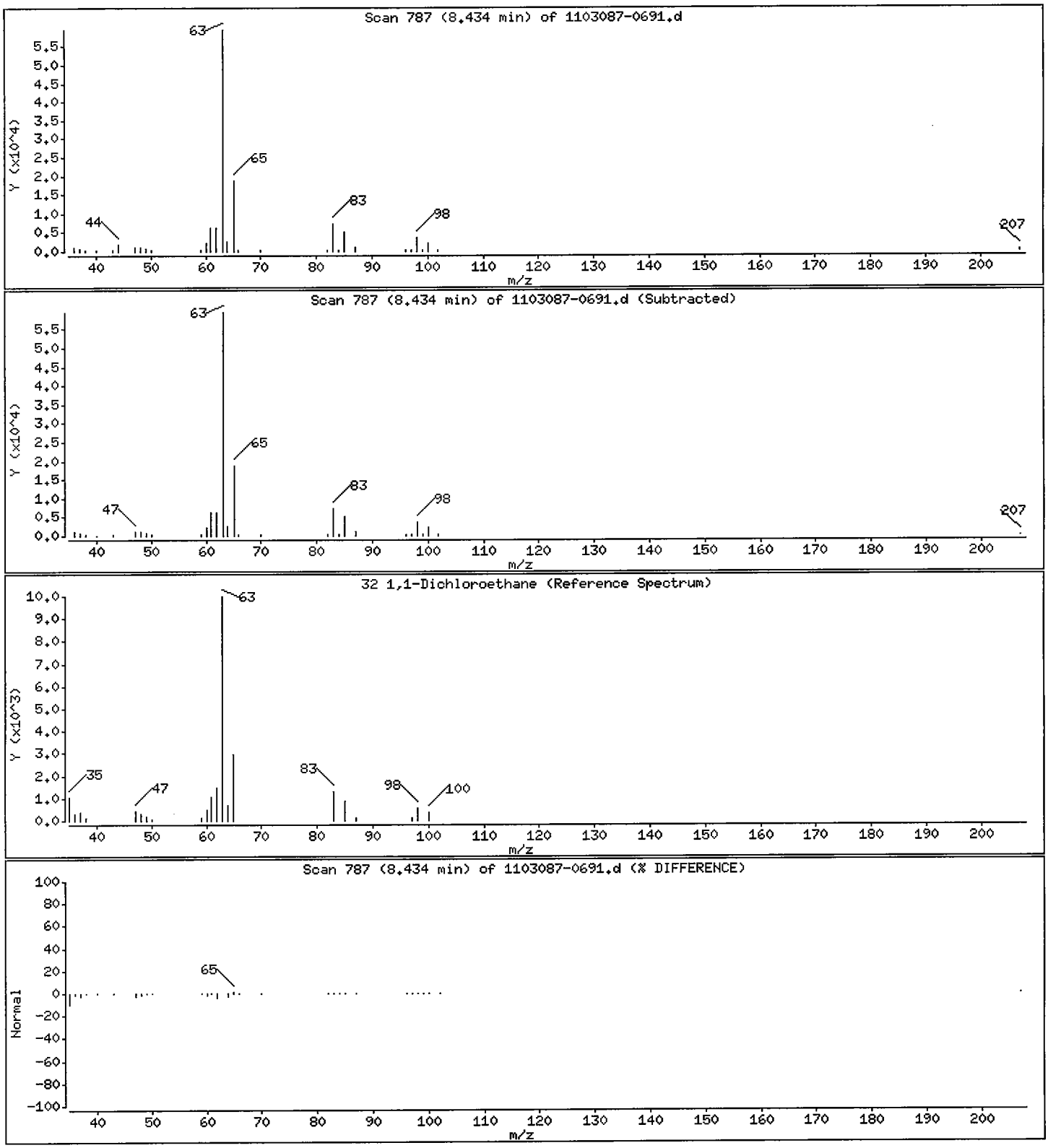
Client ID: MW-17 | Instrument: 5975hpms91.i

Sample Info: 1103087-06:TD

Purge Volume: 25.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

32 1,1-Dichloroethane | Concentration: 2.0 ug/L



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

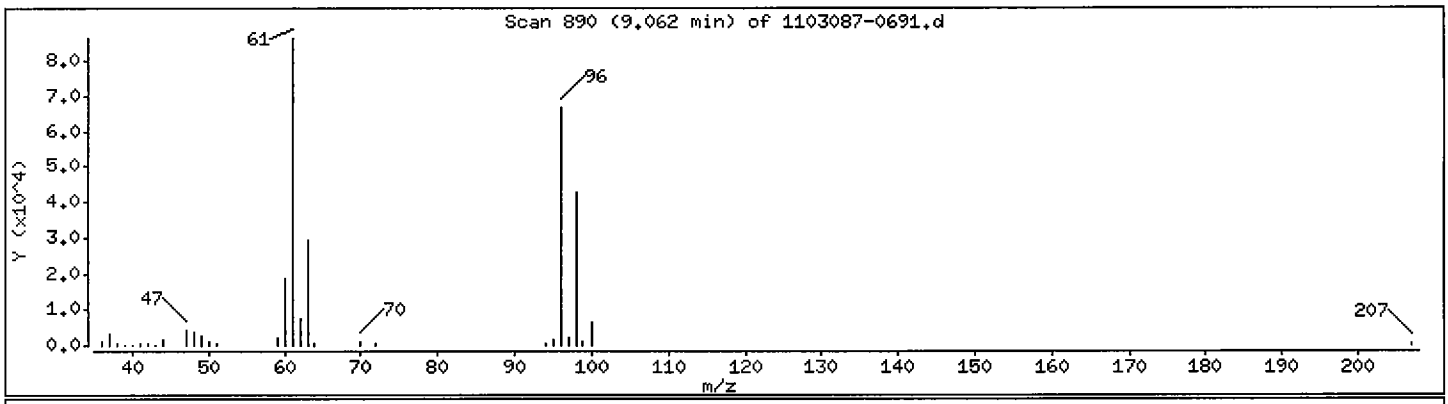
Client ID: MW-17 | Instrument: 5975hpms91.i

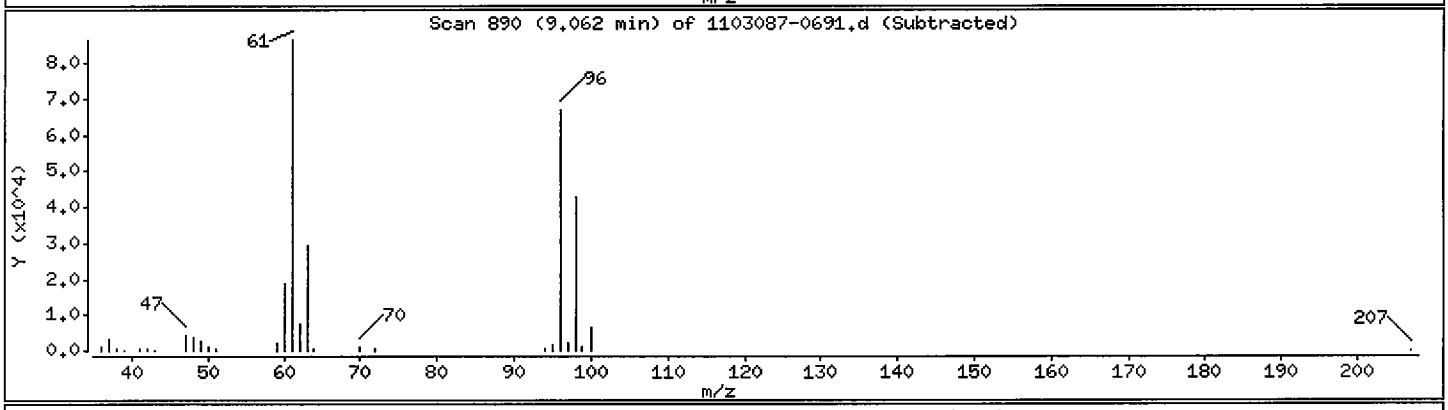
Sample Info: 1103087-06:TD

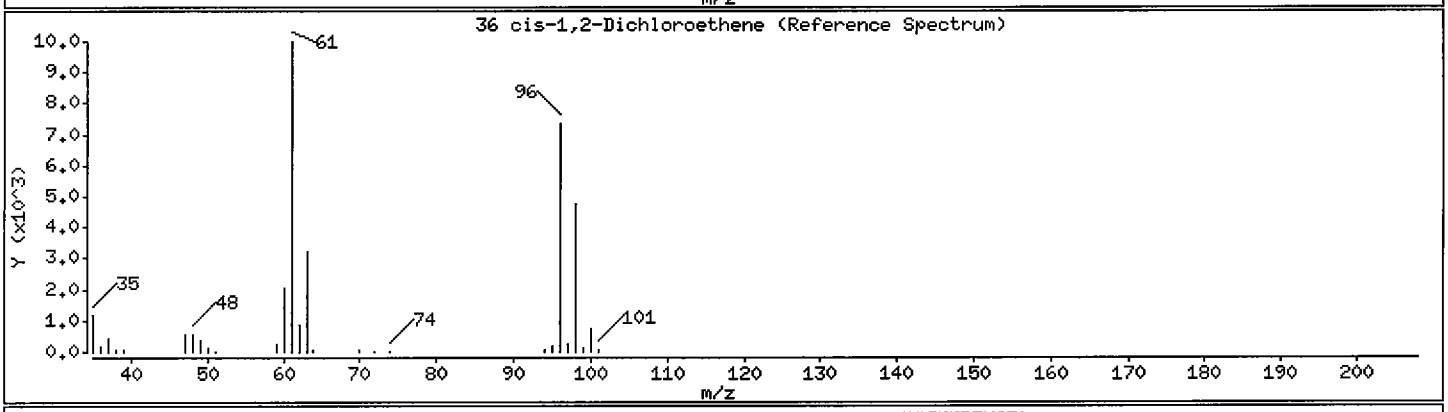
Purge Volume: 25.0 | Operator: TD

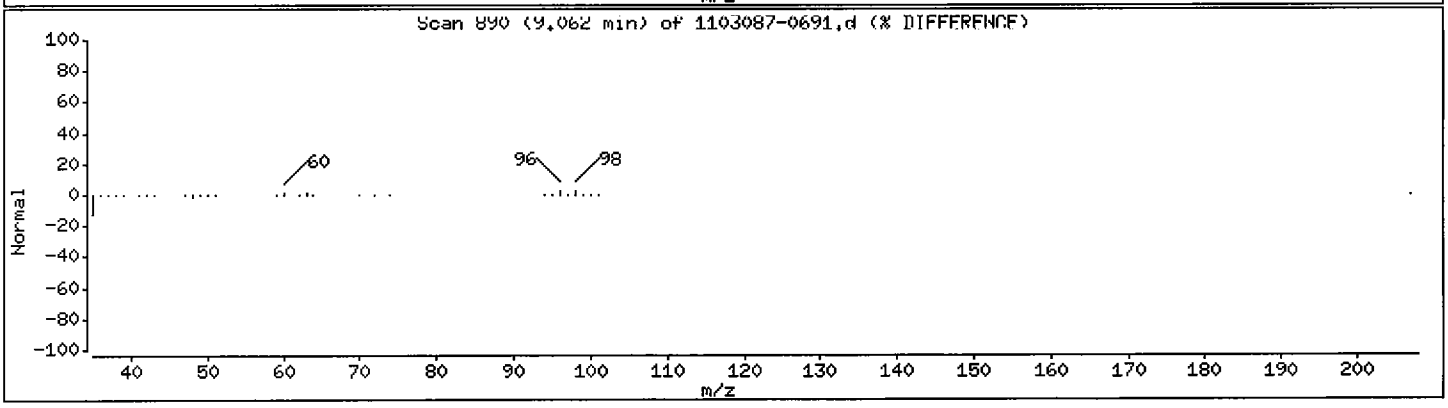
Column phase: SPB-624 | Column diameter: 0.32

36 cis-1,2-Dichloroethene | Concentration: 3.5 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

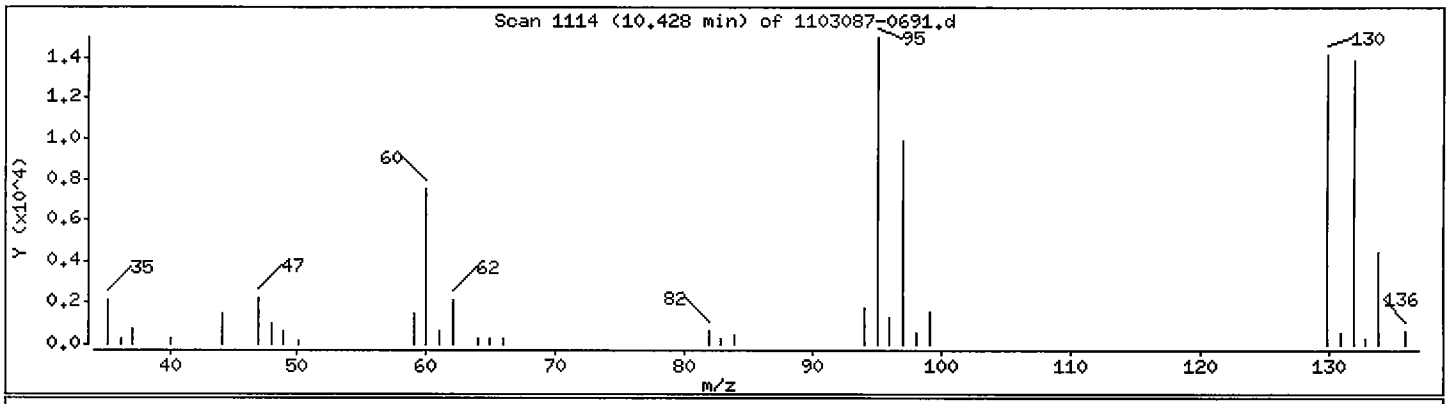
Client ID: MW-17 Instrument: 5975hpms91.i

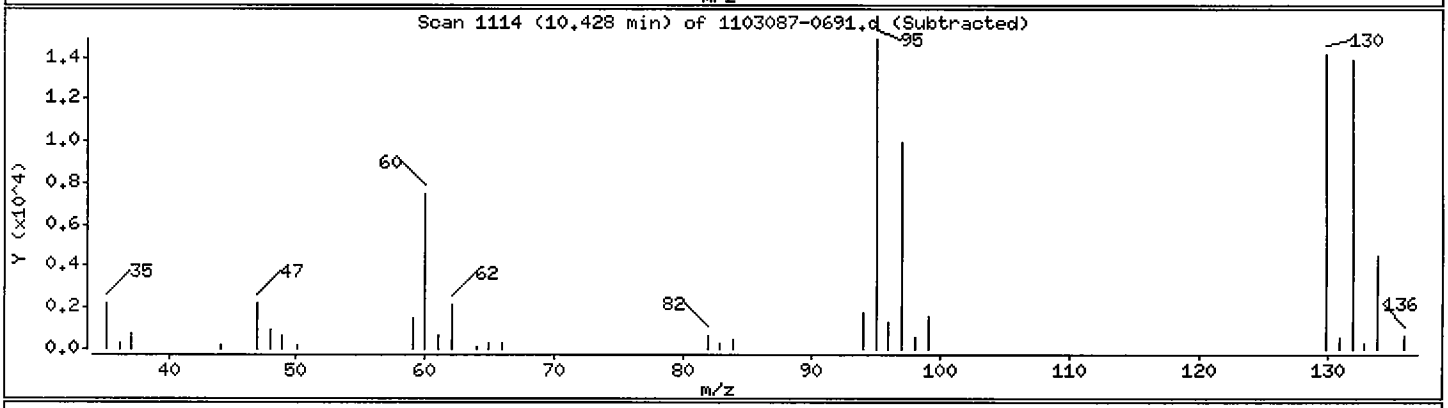
Sample Info: 1103087-06:TD

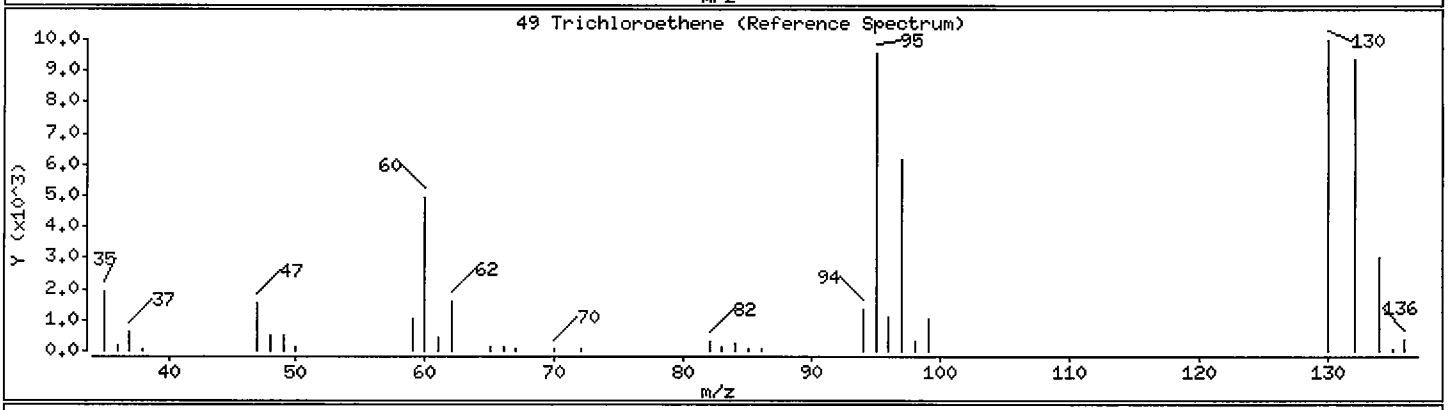
Purge Volume: 25.0 Operator: TD

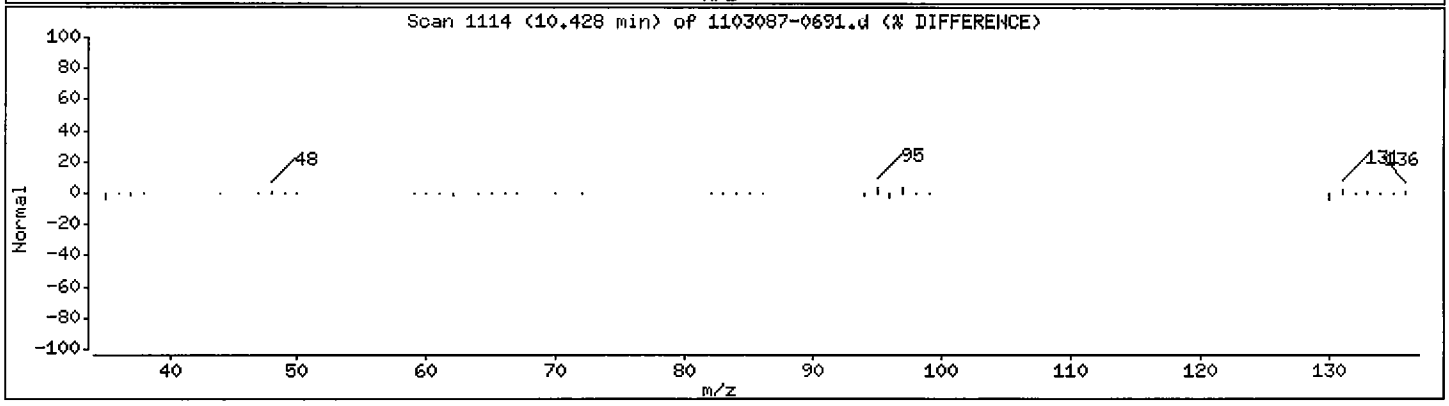
Column phase: SPB-624 Column diameter: 0.32

49 Trichloroethene Concentration: 0.66 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

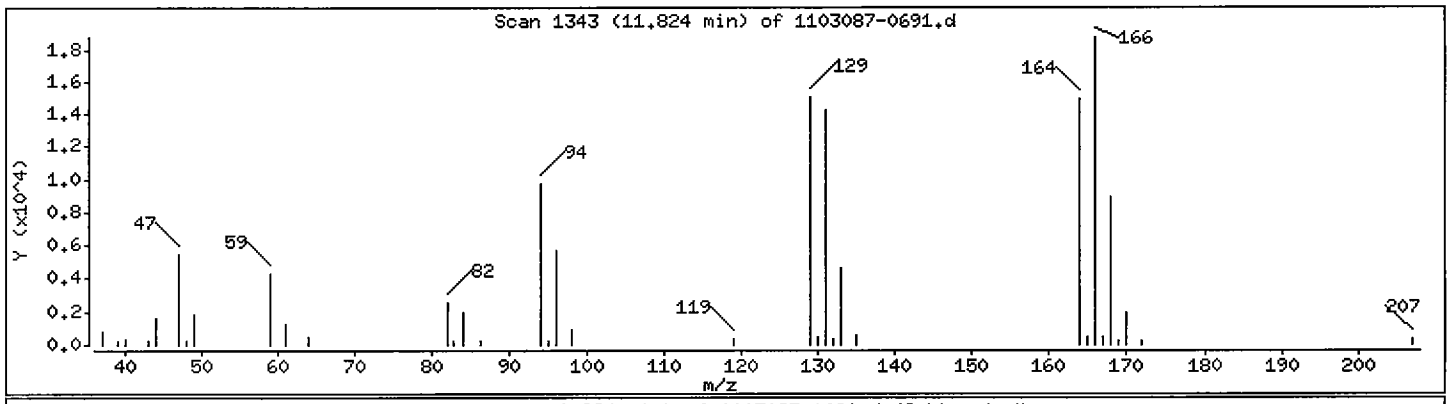
Client ID: MW-17 | Instrument: 5975hpms91.i

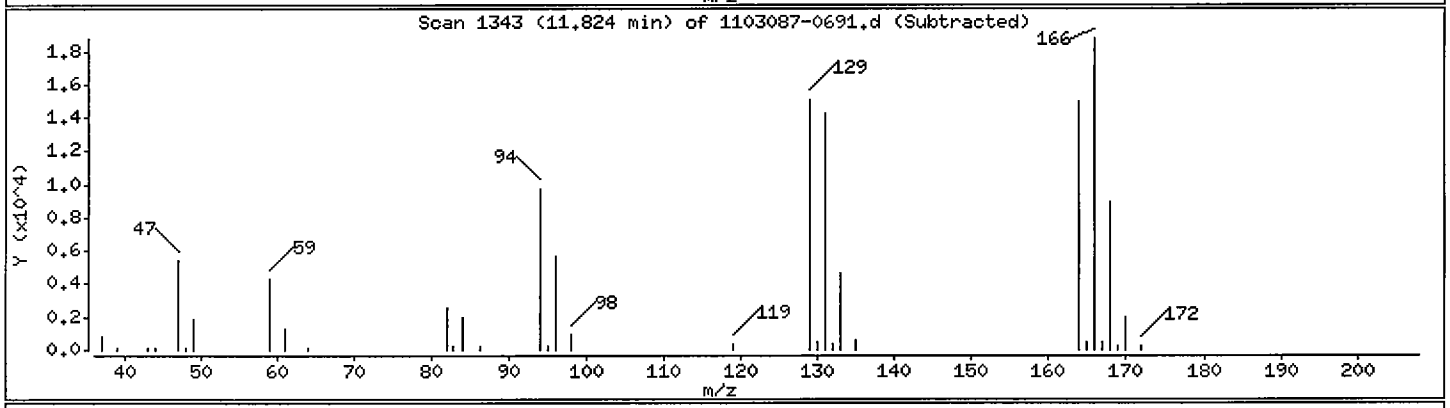
Sample Info: 1103087-06:TD

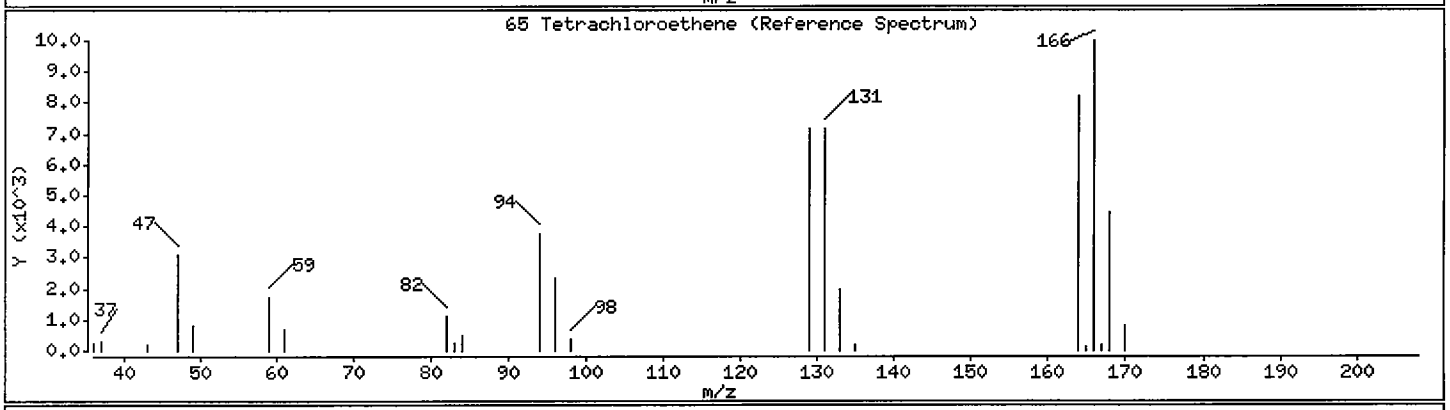
Purge Volume: 25.0 | Operator: TD

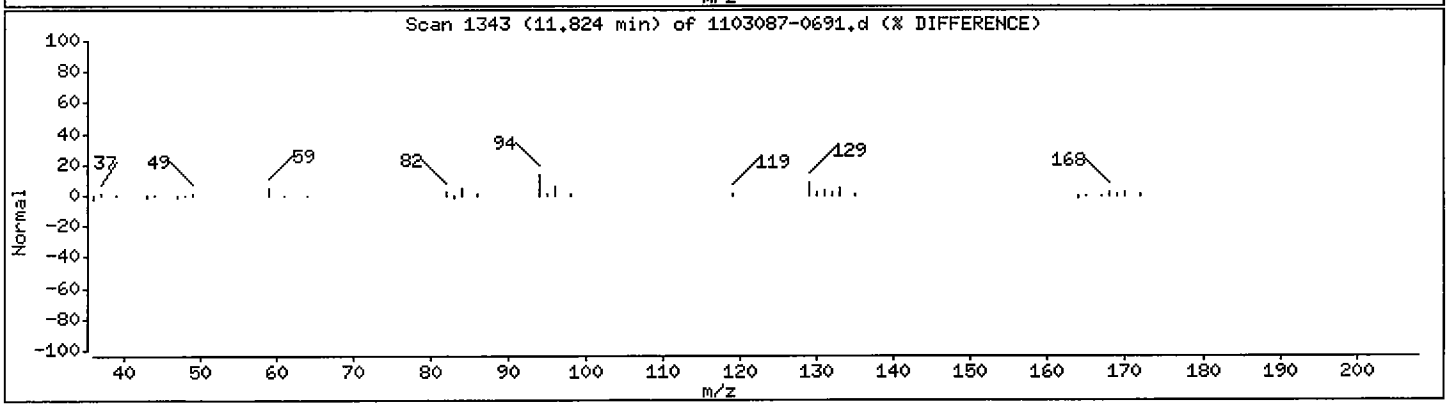
Column phase: SPB-624 | Column diameter: 0.32

65 Tetrachloroethene | Concentration: 0.53 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d
Lab Smp Id: 1103087-06 Client Smp ID: MW-17
Inj Date : 18-MAR-2011 22:50
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-06:TD
Misc Info : MW-17
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 1 Fluorobenzene	10.111	1255347	125.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ng)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown					CAS #:		
7.105	48498	4.82915640	0.19	0		0	1

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0691.d

Date : 18-MAR-2011 22:50

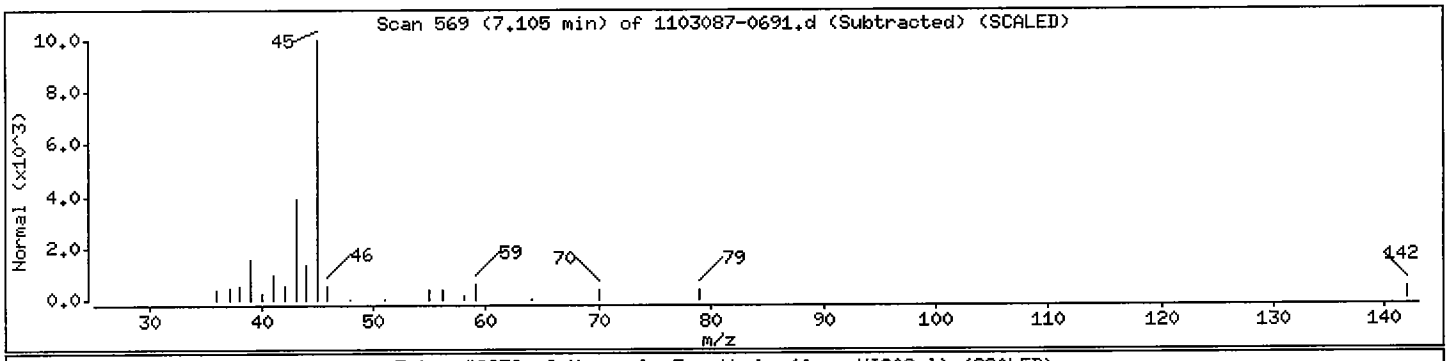
Client ID: MW-17 Instrument: 5975hpms91.i

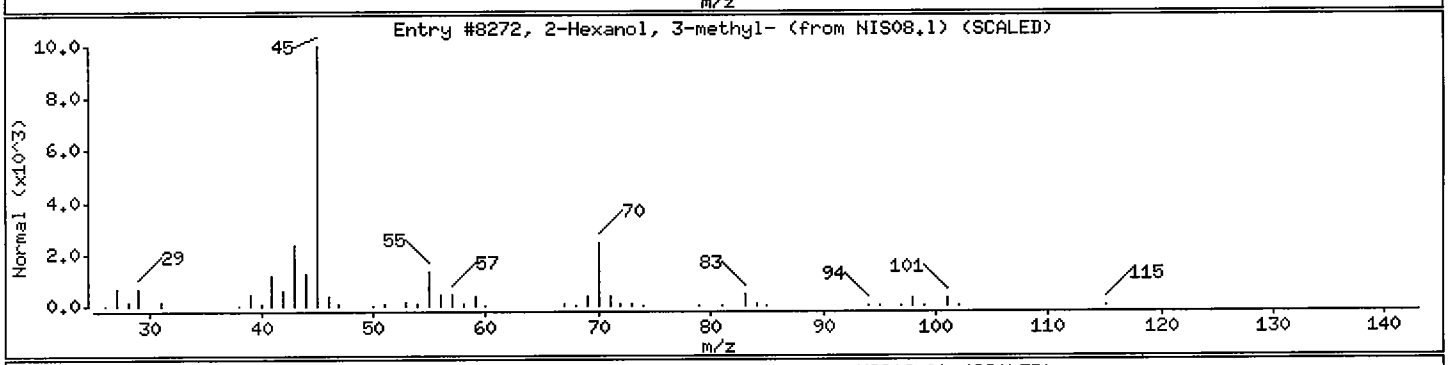
Sample Info: 1103087-06:TD

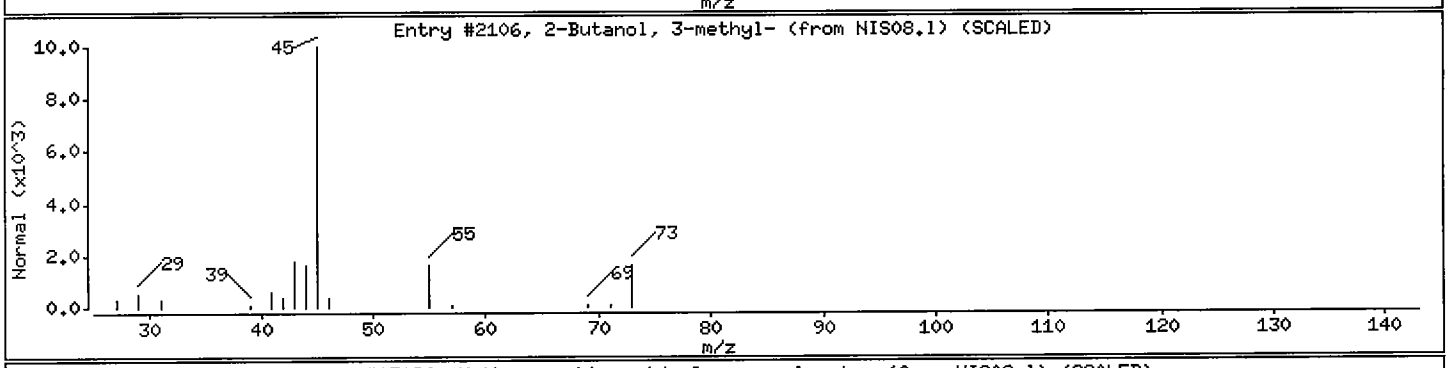
Purge Volume: 25.0 Operator: TD

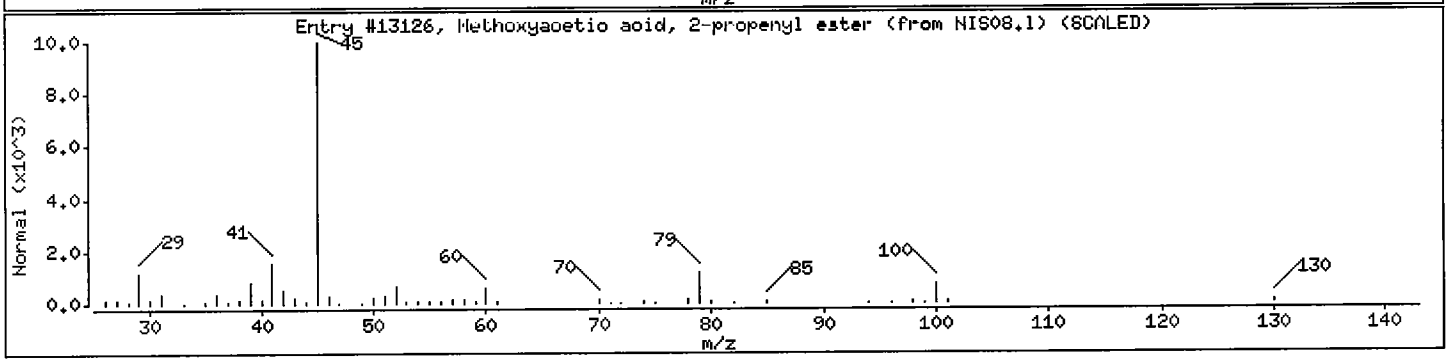
Column phase: SPB-624 Column diameter: 0.32

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Hexanol, 3-methyl-	2313-65-7	NIS08.1	8272	38	C7H16O	116
2-Butanol, 3-methyl-	598-75-4	NIS08.1	2106	9	C5H12O	88
Methoxyacetic acid, 2-propenyl ester	53421-44-6	NIS08.1	13126	9	C6H10O3	130









ANALYSIS DATA SHEET

SW 8260B

TRIPBLANK

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0791.d | Sampled: 03/15/11 00:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-07 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:19

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride	0.37	0.020	0.50	J
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U

ANALYSIS DATA SHEET

SW 8260B

TRIPBLANK

Client: DRAPER | SDG 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Preparation: SW 5030A/5030B | File ID: 1103087-0791.d | Sampled: 03/15/11 00:00

Initial/Final: 25mL / 25mL | Lab ID: 1103087-07 | Received: 03/18/11 09:30

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 23:19

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC. (ug/L)	MDL	RL	Q
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.463	109	65 - 150	
1,2-Dichloroethane-d4	5.000	5.332	107	59 - 150	
Toluene-d8	5.000	5.259	105	61 - 145	
Bromofluorobenzene	5.000	4.865	97	63 - 143	

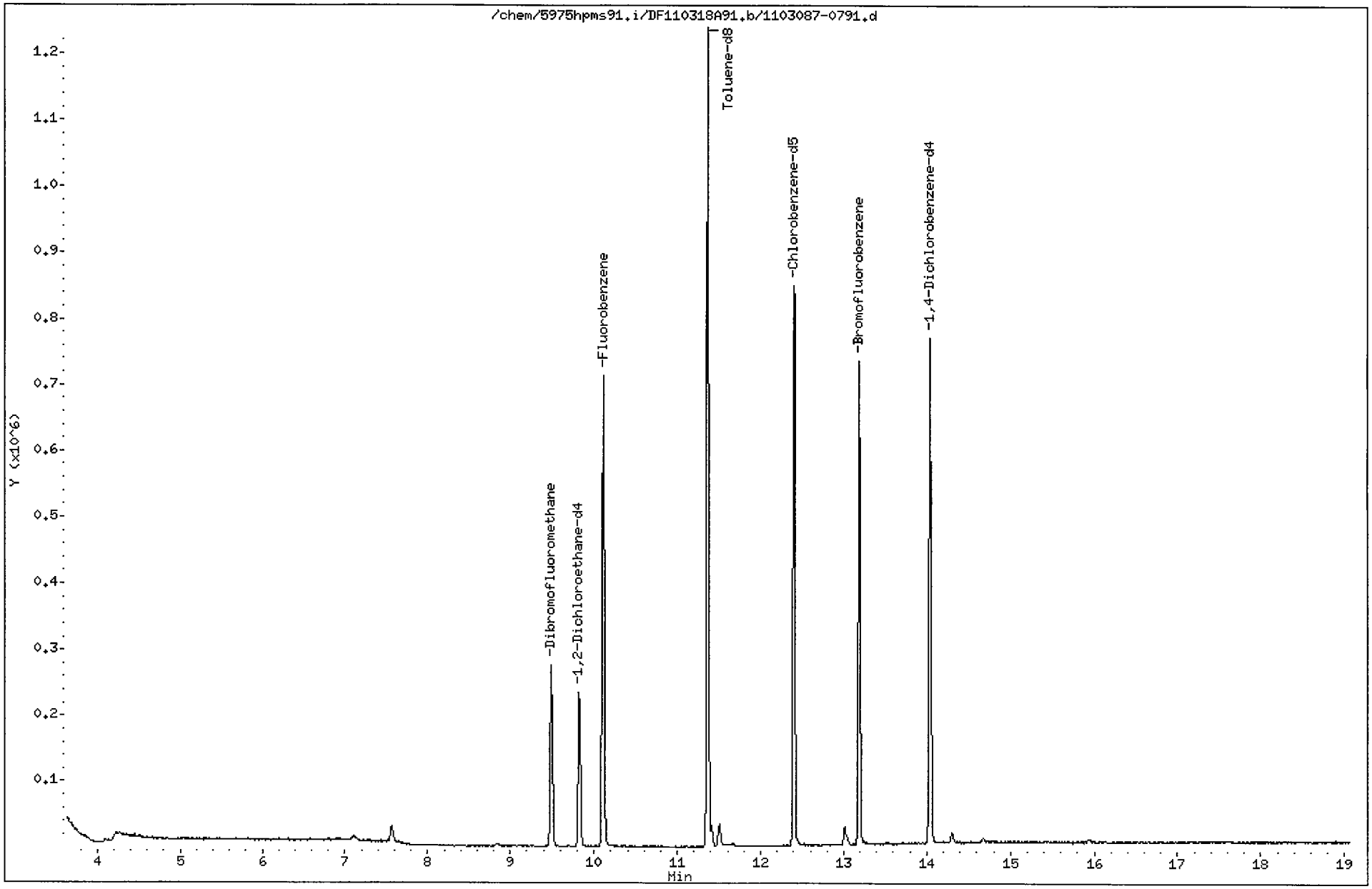
CAS NO.	TICS	CONC. (ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories
CompuChem
A Division Of
Liberty Analytical Corp.

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Date : 18-MAR-2011 23:19
Client ID: TRIPBLANK
Sample Info: 1103087-07:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i

Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Lab Smp Id: 1103087-07 Client Smp ID: TRIPBLANK
Inj Date : 18-MAR-2011 23:19
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-07:TD
Misc Info : TRIPBLANK
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	576009	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	417839	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	198345	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	163686	136.569	5.5
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	168618	133.289	5.3
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	706820	131.477	5.3
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	244295	121.629	4.9
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	7.569	7.563	(0.749)	11074	9.22900	0.37(a)
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	Compound Not Detected.					
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Report Date: 22-Mar-2011 11:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d

Date : 18-MAR-2011 23:19

Client ID: TRIPBLANK

Instrument: 5975hpms91.i

Sample Info: 1103087-07:TD

Purge Volume: 25.0

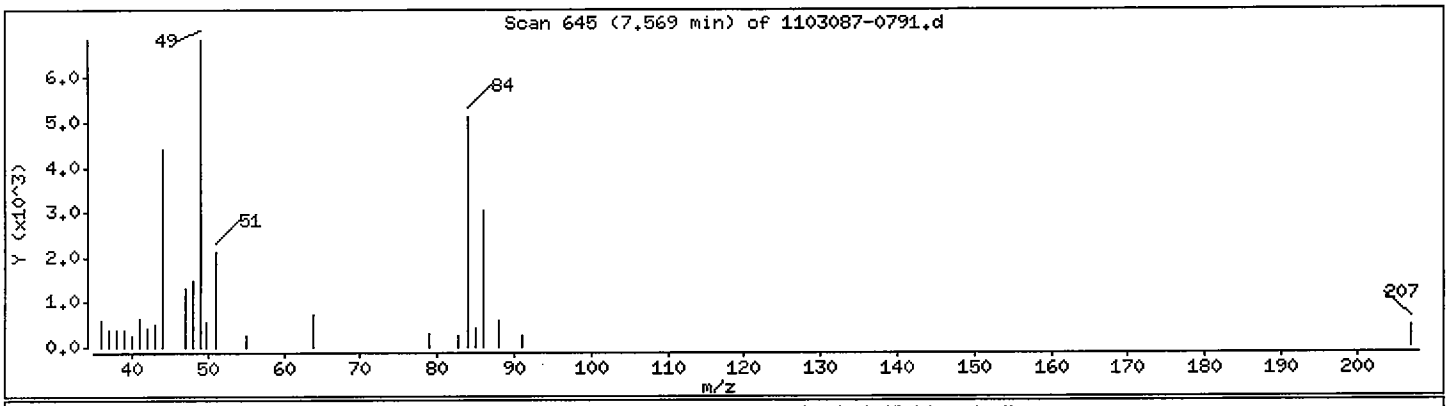
Operator: TD

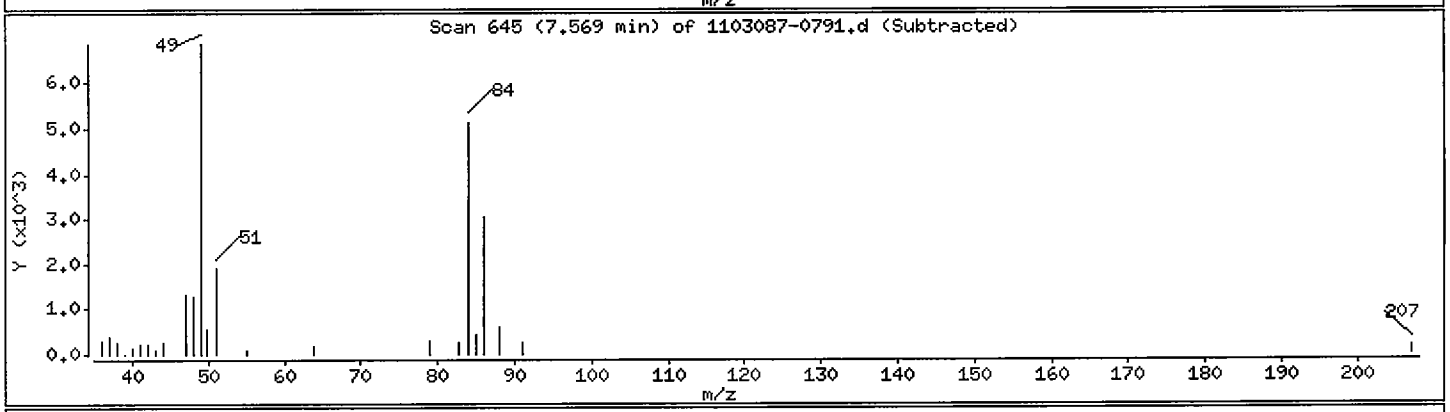
Column phase: SPB-624

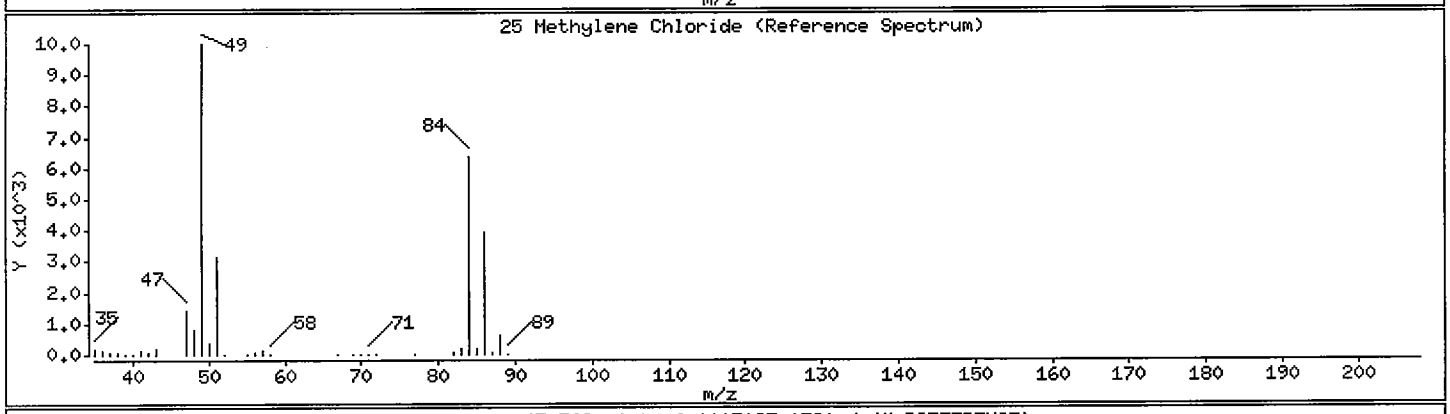
Column diameter: 0.32

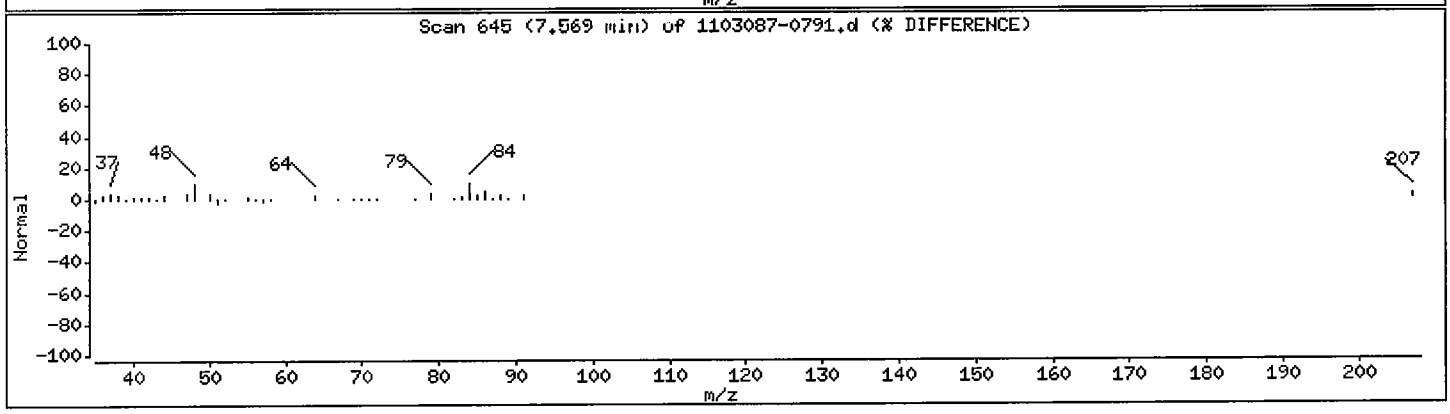
25 Methylene Chloride

Concentration: 0.37 ug/L









Data File: /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Report Date: 22-Mar-2011 11:58

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1103087-0791.d
Lab Smp Id: 1103087-07 Client Smp ID: TRIPBLANK
Inj Date : 18-MAR-2011 23:19
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103087-07:TD
Misc Info : TRIPBLANK
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

3. Standards Data

a. Initial Calibration Data

(INITIAL CALIBRATION DATA)

b. Continuing Calibration Data

(CONTINUING CALIBRATION CHECK)

a. Initial Calibration Data

(INITIAL CALIBRATION DATA)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order. Within each initial calibration, the standards are in order by level, from lowest to highest.

(1) RICs and Quantitation reports for the initial (six-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

INITIAL CALIBRATION DATA

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

Calibration Date: 3/17/2011 2:27:06PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Dichlorodifluoromethane	0.5	0.4193343	1	0.4115075	5	0.403004	10	0.3990661	20	0.380955	40	0.3626973
Chloromethane	0.5	0.2493557	1	0.2360046	5	0.2309909	10	0.2274147	20	0.222652	40	0.205589
Vinyl chloride	0.5	0.2077019	1	0.2054048	5	0.195977	10	0.1971046	20	0.1924836	40	0.1849824
Bromomethane	0.5	0.1264123	1	0.1163515	5	0.1054612	10	0.0995538	20	9.662156E-02	40	9.240027E-02
Chloroethane	0.5	0.1269663	1	0.1165001	5	0.1012929	10	0.0972357	20	0.0973957	40	9.260806E-02
Trichlorofluoromethane	0.5	0.2975121	1	0.2955889	5	0.2918114	10	0.2835482	20	0.2766584	40	0.2635815
Acrolein	5	5.399958E-03	10	7.452233E-03	50	6.197204E-03	100	5.968827E-03	200	5.773952E-03	400	5.952616E-03
1,1-Dichloroethene	0.5	0.1435197	1	0.1295192	5	0.1231999	10	0.1244359	20	0.1193351	40	0.1149606
Acetone	2.5	1.650852E-02	5	1.792568E-02	25	0.013198	50	1.377196E-02	100	1.316729E-02	200	1.325389E-02
Iodomethane	0.5	0.1303297	1	0.1265988	5	0.1334884	10	0.1508029	20	0.1544011	40	0.1458483
Carbon disulfide	0.5	0.4280265	1	0.4167087	5	0.4310977	10	0.4280669	20	0.4190109	40	0.405112
3-Chloropropene	0.5	0.2019115	1	0.1822353	5	0.1829872	10	0.1829582	20	0.1798876	40	0.1714864
Acetonitrile	0.5	0.2530357	1	0.2276892	5	0.23251	10	0.2289914	20	0.2264954	40	0.2182152
Methylene chloride	0.5	0.1789742	1	0.1462987	5	0.1209965	10	0.1153901	20	0.1128831	40	0.108919
Acrylonitrile	5	4.186616E-02	10	4.143051E-02	50	4.046841E-02	100	4.204006E-02	200	3.842468E-02	400	3.593093E-02
trans-1,2-Dichloroethene	0.5	0.3203307	1	0.3206386	5	0.3139501	10	0.3096978	20	0.2919747	40	0.2721606
1,1-Dichloroethane	0.5	0.6191618	1	0.602756	5	0.5852577	10	0.5605863	20	0.5185615	40	0.4661432
Chloroprene	0.5	0.5139194	1	0.5313027	5	0.5455441	10	0.544748	20	0.5194407	40	0.4903098
Vinyl acetate	1	0.4991862	2	0.5233524	10	0.4989882	20	0.5124722	40	0.4789601	80	0.4523236
cis-1,2-Dichloroethene	0.5	0.3177455	1	0.3232747	5	0.325924	10	0.321583	20	0.3003406	40	0.2757501
2,2-Dichloropropane	0.5	0.4985267	1	0.5167201	5	0.5057986	10	0.5021747	20	0.4726292	40	0.4410586
Propionitrile	25	1.477193E-02	50	1.556466E-02	250	1.499585E-02	500	0.0156065	1000	1.411524E-02	2000	1.334226E-02
2-Butanone	2.5	5.427921E-02	5	5.662767E-02	25	5.011709E-02	50	0.0540364	100	5.031109E-02	200	4.797542E-02
Methacrylonitrile	5	7.854341E-02	10	0.0833637	50	8.067482E-02	100	8.338704E-02	200	7.478418E-02	400	6.811751E-02
Bromochloromethane	0.5	0.1171002	1	0.121333	5	0.110274	10	0.1120502	20	0.1042377	40	9.811717E-02
Chloroform	0.5	0.5911992	1	0.5818092	5	0.5849155	10	0.5786542	20	0.551443	40	0.5262609
1,1,1-Trichloroethane	0.5	0.5535815	1	0.5506085	5	0.5556875	10	0.5527733	20	0.531018	40	0.5116208
1,1-Dichloropropene	0.5	0.4596691	1	0.4677837	5	0.4748093	10	0.4604384	20	0.4261974	40	0.3843354
Carbon tetrachloride	0.5	0.466607	1	0.4697995	5	0.472562	10	0.4663538	20	0.447268	40	0.4234821
1,2-Dichloroethane	0.5	0.350628	1	0.3520137	5	0.349864	10	0.3517353	20	0.3315043	40	0.3158244

Environmental Testing Laboratories

CompuChem

A Division Of

Liberty Analytical Corp.

INITIAL CALIBRATION DATA

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

Calibration Date: 3/17/2011 2:27:06PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Isobutyl alcohol	25	4.123437E-03	50	4.417196E-03	250	4.24252E-03	500	4.624591E-03	1000	4.445533E-03	2000	4.165103E-03
Benzene	0.5	1.312425	1	1.373979	5	1.319875	10	1.301638	20	1.216765	40	1.115761
Trichloroethene	0.5	0.3336262	1	0.330537	5	0.33083	10	0.3245365	20	0.3136604	40	0.2931557
1,2-Dichloropropane	0.5	0.305004	1	0.3032582	5	0.2889144	10	0.268722	20	0.2357711	40	~~0.1962353~~
Dibromomethane	0.5	0.104306	1	0.1149624	5	0.1108252	10	0.1155991	20	0.1099231	40	0.1080362
Methyl Methacrylate	5	0.112096	10	0.1248369	50	0.1172238	100	0.1167225	200	0.1005584	400	8.453434E-02
Bromodichloromethane	0.5	0.3670099	1	0.386419	5	0.3786846	10	0.391498	20	0.3784426	40	0.3649746
cis-1,3-Dichloropropene	0.5	0.3957639	1	0.407773	5	0.4210582	10	0.4359834	20	0.4216348	40	0.401026
4-Methyl-2-pentanone	2.5	0.1652579	5	0.1869428	25	0.1793992	50	0.1935668	100	0.177714	200	0.1701955
Toluene	0.5	1.262423	1	1.27586	5	1.217849	10	1.187363	20	1.123505	40	1.050191
trans-1,3-Dichloropropene	0.5	0.481464	1	0.5450179	5	0.5129198	10	0.5212851	20	0.487781	40	0.4531687
1,1,2-Trichloroethane	0.5	0.2476475	1	0.2574487	5	0.250235	10	0.2561517	20	0.2422774	40	0.2382283
Ethyl Methacrylate	5	0.3221735	10	0.3632783	50	0.3361347	100	0.3279533	200	0.2805669	400	0.2348066
1,3-Dichloropropane	0.5	0.4649541	1	0.4931261	5	0.462861	10	0.460585	20	0.4161997	40	0.3803193
Tetrachloroethene	0.5	0.5406258	1	0.521413	5	0.5318778	10	0.5091575	20	0.4382298	40	~~0.3385662~~
2-Hexanone	2.5	0.1152458	5	0.1296616	25	0.1235016	50	0.1340077	100	0.1208846	200	0.1158918
Dibromochloromethane	0.5	0.2669501	1	0.2880998	5	0.2911985	10	0.3052481	20	0.3027346	40	0.3051638
Chlorobenzene	0.5	1.323389	1	1.2877	5	1.250796	10	1.233592	20	1.163726	40	1.089938
1,1,1,2-Tetrachloroethane	0.5	0.410523	1	0.4069903	5	0.4065329	10	0.4109407	20	0.3923223	40	0.3696679
Ethylbenzene	0.5	0.7391237	1	0.7620422	5	0.763314	10	0.7347213	20	0.6765089	40	0.5971147
m,p-Xylene	1	0.9266215	2	0.9503514	10	0.9270459	20	0.896352	40	0.8224573	80	0.709344
o-Xylene	0.5	0.8415455	1	0.8989156	5	0.8943769	10	0.8673496	20	0.7934088	40	0.6950756
Styrene	0.5	1.306462	1	1.380314	5	1.400946	10	1.380637	20	1.274049	40	1.128661
Bromoform	0.5	0.1253151	1	0.1359334	5	0.1390702	10	0.1555063	20	0.1567099	40	0.1648165
1,1,2,2-Tetrachloroethane	0.5	0.5623932	1	0.5712876	5	0.5347826	10	0.5724337	20	0.5425791	40	0.5380952
1,2,3-Trichloropropane	0.5	0.0792054	1	0.0843766	5	7.880752E-02	10	8.403352E-02	20	7.731579E-02	40	7.570942E-02
trans-1,4-Dichloro-2-butene	2	8.288164E-02	4	8.591474E-02	20	0.0867926	40	9.153079E-02	80	8.526416E-02	160	8.248492E-02
1,3-Dichlorobenzene	0.5	2.001779	1	2.072927	5	1.985915	10	2.005495	20	1.941479	40	1.82717
1,4-Dichlorobenzene	0.5	2.142339	1	2.113384	5	1.974175	10	1.992388	20	1.920104	40	1.812016
1,2-Dichlorobenzene	0.5	1.680546	1	1.725798	5	1.665635	10	1.702332	20	1.626635	40	1.562067

INITIAL CALIBRATION DATA

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

Calibration Date: 3/17/2011 2:27:06PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
1,2,4-Trichlorobenzene	0.5	1.245288	1	1.250127	5	1.206884	10	1.22415	20	1.202314	40	1.156041
Hexachlorobutadiene	0.5	0.7562573	1	0.7798586	5	0.729968	10	0.735049	20	0.7191447	40	0.6942482
Naphthalene	0.5	1.686165	1	1.789844	5	1.751308	10	1.902341	20	1.855573	40	1.825338
Xylenes (total)	1.5	0.8982628	3	0.9332061	15	0.9161562	30	0.8866845	60	0.8127744	120	0.7045879
Dibromofluoromethane	0.5	0.2622818	1	0.2452052	5	0.2644552	10	0.2657777	20	0.2616762	40	0.2612057
1,2-Dichloroethane-d4	0.5	0.2905214	1	0.2591806	5	0.277919	10	0.281314	20	0.2705554	40	0.2676885
Toluene-d8	0.5	1.591669	1	1.556225	5	1.683278	10	1.658487	20	1.607305	40	1.55271
Bromofluorobenzene	0.5	1.308309	1	1.155753	5	1.281869	10	1.319357	20	1.288369	40	1.241185

INITIAL CALIBRATION DATA (Continued)

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

Calibration Date: 3/17/2011 2:27:06PM

Compound	Mean RF	% RSD	Mean RT	RT RSD	Linear r	Quad COD	RSD LIMIT	Q
Dichlorodifluoromethane	0.396094	5.270142	3.827	6.553096E-02			CCC (15)	
Chloromethane	0.2286678	6.360211	4.263	7.299532E-02			CCC (15)	
Vinyl chloride	0.1972757	4.244687	4.527	7.124783E-03			CCC (30)	
Bromomethane	0.1061334	12.20125	5.296	8.589022E-02			CCC (15)	
Chloroethane	0.1053331	12.73371	5.513667	5.219136E-02			CCC (15)	
Trichlorofluoromethane	0.2847834	4.565491	5.995	4.413338E-02			CCC (15)	
Acrolein	6.124132E-03	11.47626	6.711	4.497223E-02			CCC (15)	
1,1-Dichloroethene	0.1258284	7.913293	6.877	4.566568E-02			CCC (30)	
Acetone	1.463756E-02	14.07073	6.927	4.664131E-02			CCC (15)	
Iodomethane	0.1402449	8.275198	7.117	3.317335E-02			CCC (15)	
Carbon disulfide	0.4213371	2.31425	7.231	4.522883E-02			CCC (15)	
3-Chloropropene	0.1835777	5.438976	7.386	1.259591E-02			CCC (15)	
Acetonitrile	0.2311562	5.068887	7.386	1.259591E-02			CCC (15)	
Methylene chloride	0.1305769	20.81608	7.566	4.099158E-02	0.9997615		CCC (15)	
Acrylonitrile	4.002679E-02	6.011043	7.871	4.437659E-02			CCC (15)	
trans-1,2-Dichloroethene	0.3047921	6.276091	7.91	1.653285E-02			CCC (15)	
1,1-Dichloroethane	0.5587444	10.27598	8.434	2.773828E-02			CCC (15)	
Chloroprene	0.5242108	4.006164	8.524	0.0307715			CCC (15)	
Vinyl acetate	0.4942138	5.132792	8.423333	3.782182E-02			CCC (15)	
cis-1,2-Dichloroethene	0.3107697	6.25077	9.0565	6.595432E-03			CCC (15)	
2,2-Dichloropropane	0.4894846	5.690978	9.05	8.686382E-03			CCC (15)	
Propionitrile	1.473274E-02	5.949161	9.093	1.296356E-02			CCC (15)	
2-Butanone	5.222448E-02	6.237089	9.014	1.869293E-02			CCC (15)	
Methacrylonitrile	7.814511E-02	7.529822	9.245333	4.753797E-03			CCC (15)	
Bromochloromethane	0.1105187	7.634051	9.293	3.247004E-02			CCC (15)	
Chloroform	0.569047	4.402593	9.338	2.242357E-02			CCC (30)	
1,1,1-Trichloroethane	0.5425483	3.248699	9.549	3.173618E-02			CCC (15)	
1,1-Dichloropropene	0.4455389	7.705577	9.690667	0.0157198			CCC (15)	
Carbon tetrachloride	0.4576787	4.14702	9.702	2.086011E-02			CCC (15)	
1,2-Dichloroethane	0.3419283	4.390054	9.892	1.304242E-02			CCC (15)	

INITIAL CALIBRATION DATA (Continued)

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

Calibration Date: 3/17/2011 2:27:06PM

Compound	Mean RF	% RSD	Mean RT	RT RSD	Linear r	Quad COD	RSD LIMIT	Q
Isobutyl alcohol	4.336397E-03	4.435795	9.676	3.755896E-02			CCC (15)	
Benzene	1.273407	7.253175	9.873	2.043342E-02			CCC (15)	
Trichloroethene	0.3210576	4.802438	10.428	1.146943E-02			CCC (15)	
1,2-Dichloropropane	0.2803339	10.28999	10.617	9.565231E-03			CCC (30)	
Dibromomethane	0.1106087	3.850957	10.726	2.414587E-02			CCC (15)	
Methyl Methacrylate	0.1093287	13.29798	10.611	6.991332E-03			CCC (15)	
Bromodichloromethane	0.3778381	2.760726	10.812	1.780462E-02			CCC (15)	
cis-1,3-Dichloropropene	0.4138732	3.63385	11.15383	0.0134502			CCC (15)	
4-Methyl-2-pentanone	0.178846	5.828564	11.20867	8.445601E-03			CCC (15)	
Toluene	1.186199	7.279481	11.41	1.146142E-02			CCC (30)	
trans-1,3-Dichloropropene	0.5002727	6.52772	11.55	2.543281E-02			CCC (15)	
1,1,2-Trichloroethane	0.2486648	3.043748	11.693	3.254898E-02			CCC (15)	
Ethyl Methacrylate	0.3108189	14.74948	11.52567	1.831594E-02			CCC (15)	
1,3-Dichloropropane	0.4463409	9.116392	11.824	2.468176E-02			CCC (15)	
Tetrachloroethene	0.5082608	8.042324	11.824	2.519072E-02			CCC (15)	
2-Hexanone	0.1231989	6.081665	11.798	3.040723E-02			CCC (15)	
Dibromochloromethane	0.2932325	5.054262	11.992	2.660234E-02			CCC (15)	
Chlorobenzene	1.224857	6.960884	12.422	0.0220364			CCC (15)	
1,1,1,2-Tetrachloroethane	0.3994962	4.03535	12.455	2.210985E-02			CCC (15)	
Ethylbenzene	0.7121375	9.067292	12.446	1.990626E-02			CCC (30)	
m,p-Xylene	0.8720287	10.46713	12.513	2.388194E-02			CCC (15)	
o-Xylene	0.8317787	9.304236	12.8	2.217517E-02			CCC (15)	
Styrene	1.311845	7.801669	12.806	2.317196E-02			CCC (15)	
Bromoform	0.1462252	10.30841	12.988	1.579542E-02			CCC (15)	
1,1,2,2-Tetrachloroethane	0.5535952	3.087626	13.2315	0.0252987			CCC (15)	
1,2,3-Trichloropropane	7.990804E-02	4.443592	13.29433	0.0211432			CCC (15)	
trans-1,4-Dichloro-2-butene	8.581148E-02	3.816718	13.263	2.087267E-02			CCC (15)	
1,3-Dichlorobenzene	1.972461	4.198732	13.99483	1.763892E-02			CCC (15)	
1,4-Dichlorobenzene	1.992401	6.155926	14.06183	7.170652E-03			CCC (15)	
1,2-Dichlorobenzene	1.660502	3.540127	14.37267	1.528959E-03			CCC (15)	

INITIAL CALIBRATION DATA (Continued)

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Calibration: 1032305 Instrument: 5975hpms91

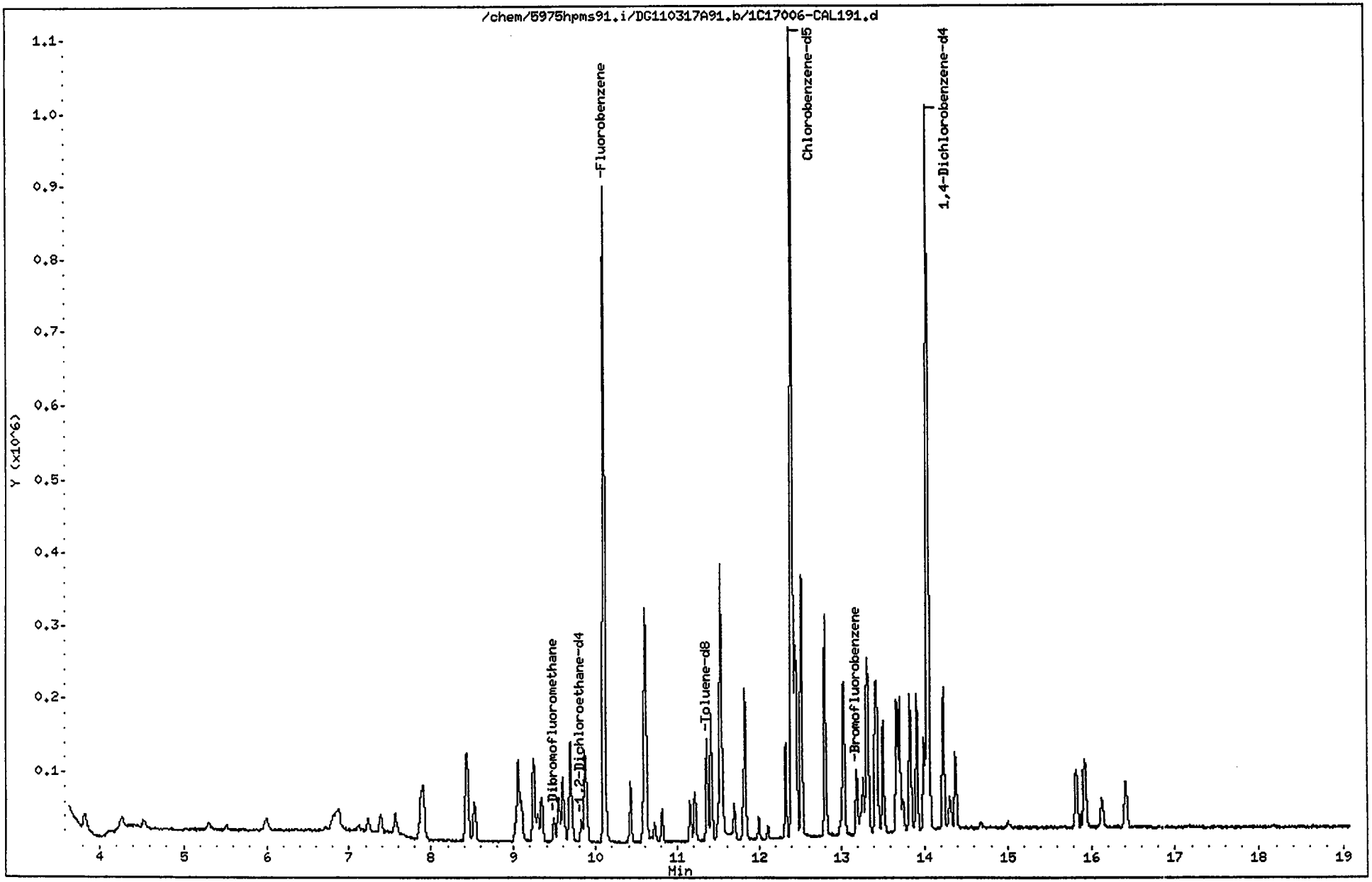
Calibration Date: 3/17/2011 2:27:06PM

Compound	Mean RF	% RSD	Mean RT	RT RSD	Linear r	Quad COD	RSD LIMIT	Q
1,2,4-Trichlorobenzene	1.214134	2.837307	15.82533	0.0178189			CCC (15)	
Hexachlorobutadiene	0.7357543	4.031046	15.927	1.318683E-02			CCC (15)	
Naphthalene	1.801762	4.271647	16.125	2.653695E-02			CCC (15)	
Xylenes (total)	0.858612	10.02704	12.8	2.217517E-02			CCC (15)	
Dibromofluoromethane	0.2601003	2.8849	9.489	1.994441E-02			CCC (15)	
1,2-Dichloroethane-d4	0.2745298	4.028104	9.824833	2.025611E-02			CCC (15)	
Toluene-d8	1.608279	3.315952	11.359	3.425222E-02			CCC (15)	
Bromofluorobenzene	1.265807	4.760961	13.184	6.258662E-03			CCC (15)	

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Date : 17-MAR-2011 14:56
Client ID: VSTD0.5
Sample Info: 1C17006-CAL1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i

Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Lab Smp Id: 1C17006-CAL1 Client Smp ID: VSTD0.5
Inj Date : 17-MAR-2011 14:56
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL1:JAO
Misc Info : VSTD0.5
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 14:56 Cal File: 1C17006-CAL191.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.105	10.111	(1.000)	758154	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	526353	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	256262	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	19885	12.5000	13
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	22026	12.5000	13
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	83778	12.5000	13
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	33527	12.5000	13
8 Dichlorodifluoromethane	85	3.826	3.826	(0.379)	31792	12.5000	13
9 Chloromethane	50	4.259	4.265	(0.421)	18905	12.5000	13
10 Vinyl Chloride	62	4.527	4.527	(0.448)	15747	12.5000	13
11 Bromomethane	94	5.289	5.295	(0.523)	9584	12.5000	13
12 Chloroethane	64	5.515	5.508	(0.546)	9626	12.5000	13
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	22556	12.5000	13
14 Acrolein	56	6.715	6.709	(0.665)	4094	125.000	130
15 1,1,1-trichloro-2,2,2-trifluo	117	6.813	6.807	(0.674)	6949	12.5000	13(M)
16 1,1,2-trichloro-1,2,2-trifluo	85	6.844	6.843	(0.677)	7439	12.5000	13(M)

SAP 03/24/11 3-22-11

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.880	6.874	(0.681)	10881	12.5000	13
18 Acetone	43	6.929	6.929	(0.686)	6258	62.5000	63
19 Iodomethane	142	7.118	7.118	(0.704)	9881	12.5000	13
20 Carbon disulfide	76	7.228	7.228	(0.715)	32451	12.5000	13
22 3-Chloropropene	39	7.386	7.386	(0.731)	15308	12.5000	13
23 Acetonitrile	41	7.386	7.386	(0.731)	19184	12.5000	13
24 Methyl acetate	43	7.374	7.374	(0.730)	2862	12.5000	13(M)
25 Methylene Chloride	84	7.569	7.563	(0.749)	13569	12.5000	13
26 Acrylonitrile	53	7.868	7.874	(0.779)	31741	125.000	130
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.783)	24286	12.5000	13
27 Methyl-tert-butyl ether	73	7.886	7.880	(0.780)	40635	12.5000	13
30 Isopropyl ether	45	8.435	8.441	(0.835)	65506	12.5000	13
31 Vinyl acetate	43	8.429	8.422	(0.834)	75692	25.0000	25
32 1,1-Dichloroethane	63	8.435	8.435	(0.835)	46942	12.5000	13
33 Chloroprene	53	8.526	8.520	(0.844)	38963	12.5000	13
34 2-butanone	43	9.014	9.014	(0.892)	20576	62.5000	63
35 2,2-Dichloropropane	77	9.050	9.050	(0.896)	37796	12.5000	13
36 cis-1,2-Dichloroethene	96	9.056	9.056	(0.896)	24090	12.5000	13
37 Propionitrile	54	9.093	9.093	(0.900)	55997	625.000	630
38 Methacrylonitrile	41	9.245	9.245	(0.915)	59548	125.000	130
39 Bromochloromethane	128	9.294	9.294	(0.920)	8878	12.5000	13
40 Chloroform	83	9.337	9.337	(0.924)	44822	12.5000	13
42 1,1,1-Trichloroethane	97	9.544	9.550	(0.944)	41970	12.5000	13
43 Cyclohexane	84	9.605	9.599	(0.951)	35190	12.5000	13
44 1,1-dichloropropene	75	9.691	9.690	(0.959)	34850	12.5000	13
45 Isobutyl alcohol	43	9.678	9.672	(0.958)	15631	625.000	630
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	35376	12.5000	13
47 Benzene	78	9.873	9.873	(0.977)	99502	12.5000	13
48 1,2-Dichloroethane	62	9.892	9.892	(0.979)	26583	12.5000	13
49 Trichloroethene	130	10.428	10.428	(1.032)	25294	12.5000	13
50 Methylcyclohexane	83	10.593	10.593	(1.048)	44031	12.5000	13
51 1,2-Dichloropropane	63	10.617	10.623	(1.051)	23124	12.5000	13
52 Methylmethacrylate	69	10.611	10.611	(1.050)	84986	125.000	130
53 1,4-dioxane	88	10.684	10.684	(1.057)	4152	625.000	630
54 Dibromomethane	174	10.721	10.727	(1.061)	7908	12.5000	13
55 Bromodichloromethane	83	10.812	10.812	(1.070)	27825	12.5000	13
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	756	25.0000	25(M)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.104)	30005	12.5000	13
58 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	43492	62.5000	63
59 Toluene	92	11.410	11.410	(0.920)	66448	12.5000	13
60 Ethylmethacrylate	69	11.526	11.525	(0.930)	169577	125.000	130
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	25342	12.5000	13
62 1,1,2-Trichloroethane	97	11.690	11.696	(0.943)	13035	12.5000	13
63 2-hexanone	43	11.800	11.794	(0.952)	30330	62.5000	63
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	24473	12.5000	13
65 Tetrachloroethene	164	11.824	11.824	(0.954)	28456	12.5000	13
66 Dibromochloromethane	129	11.995	11.989	(0.968)	14051	12.5000	13

SAP
03/24/11

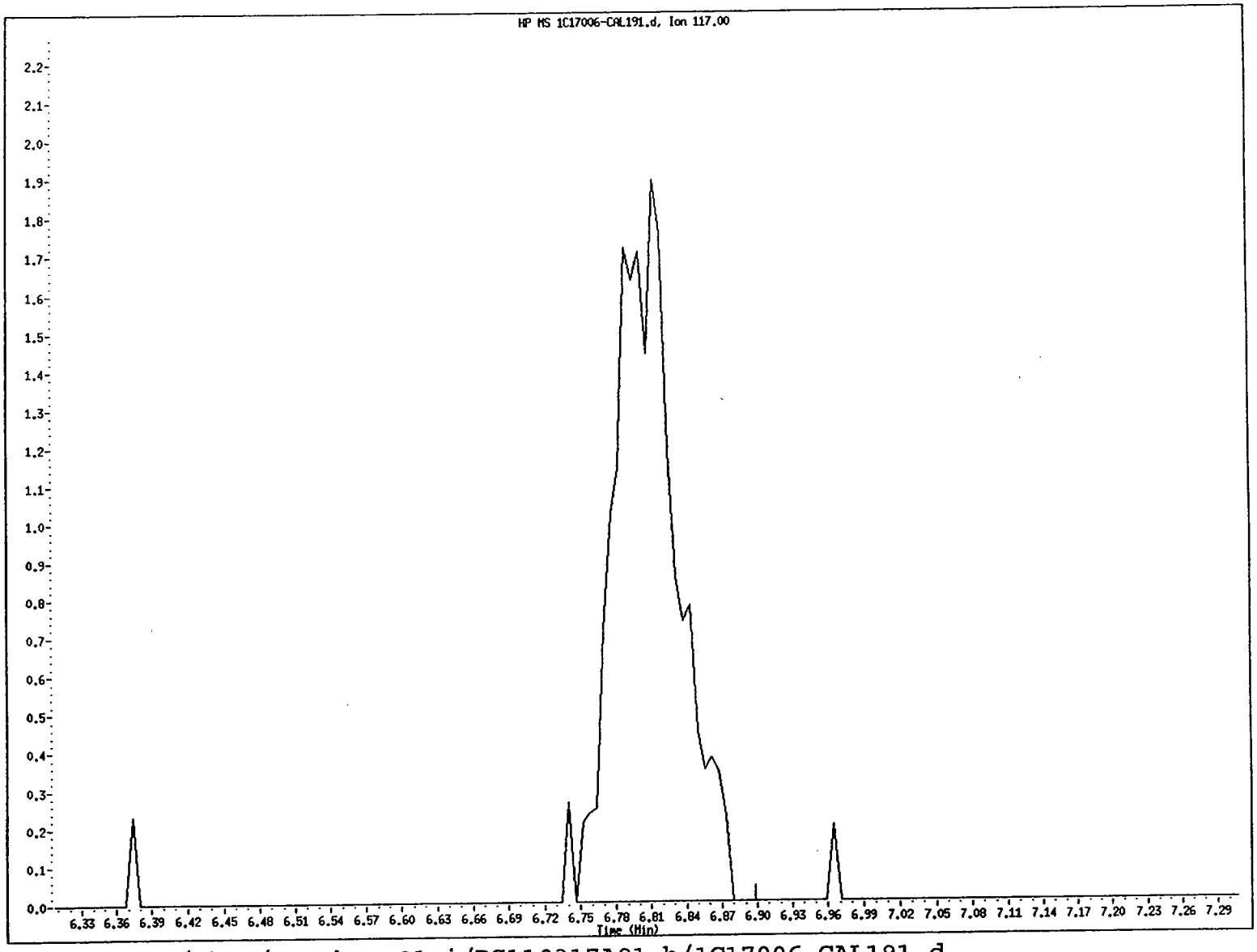
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	12016	12.5000	13
68 1-Chlorohexane	55	12.324	12.324	(0.994)	27507	12.5000	13
69 Chlorobenzene	112	12.422	12.422	(1.002)	69657	12.5000	13
70 Ethylbenzene	106	12.446	12.446	(1.004)	38904	12.5000	13
71 1,1,1,2-Tetrachloroethane	131	12.452	12.458	(1.004)	21608	12.5000	13
72 m,p-Xylene	106	12.513	12.513	(1.009)	97546	25.0000	25
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	97546	25.0000	25
74 o-Xylene	106	12.800	12.800	(1.032)	44295	12.5000	13
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	44295	12.5000	13
76 Styrene	104	12.806	12.806	(1.033)	68766	12.5000	13
77 Bromoform	173	12.983	12.989	(1.047)	6596	12.5000	13
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	97772	12.5000	13
79 1,1,2,2-Tetrachloroethane	83	13.226	13.232	(0.942)	14412	12.5000	13
81 1,2,3-Trichloropropane	110	13.293	13.293	(1.072)	4169	12.5000	13
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	17450	50.0000	50
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	152163	12.5000	13
83 Bromobenzene	156	13.330	13.330	(1.075)	23166	12.5000	13
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	97772	12.5000	13
85 2-Chlorotoluene	126	13.440	13.440	(0.957)	28952	12.5000	13
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	27941	12.5000	13
87 tert-Butyl Benzene	119	13.671	13.671	(0.974)	98085	12.5000	13
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	103216	12.5000	13
89 Pentachloroethane	167	13.745	13.745	(0.979)	7300	12.5000	13
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	131842	12.5000	13
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	107170	12.5000	13
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	51298	12.5000	13
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	54900	12.5000	13
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	112297	12.5000	13
95 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	43066	12.5000	13
96 1,2-Dibromo-3-Chloropropane	75	15.000	15.007	(1.069)	3429	12.5000	13
97 1,2,4-Trichlorobenzene	180	15.823	15.829	(1.127)	31912	12.5000	13
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	19380	12.5000	13
99 Naphthalene	128	16.128	16.128	(1.149)	43210	12.5000	13
100 1,2,3-Trichlorobenzene	180	16.415	16.415	(1.169)	24400	12.5000	13
M 101 1,2-Dichloroethene (total)	96				48376	25.0000	25
M 102 Xylene (total)	106				141841	12.5000	40

QC Flag Legend

M - Compound response manually integrated.

1,1,1-trichloro-2,2,2-trifluo CAS Number 354-58-5 Area = 6949 Manually integra



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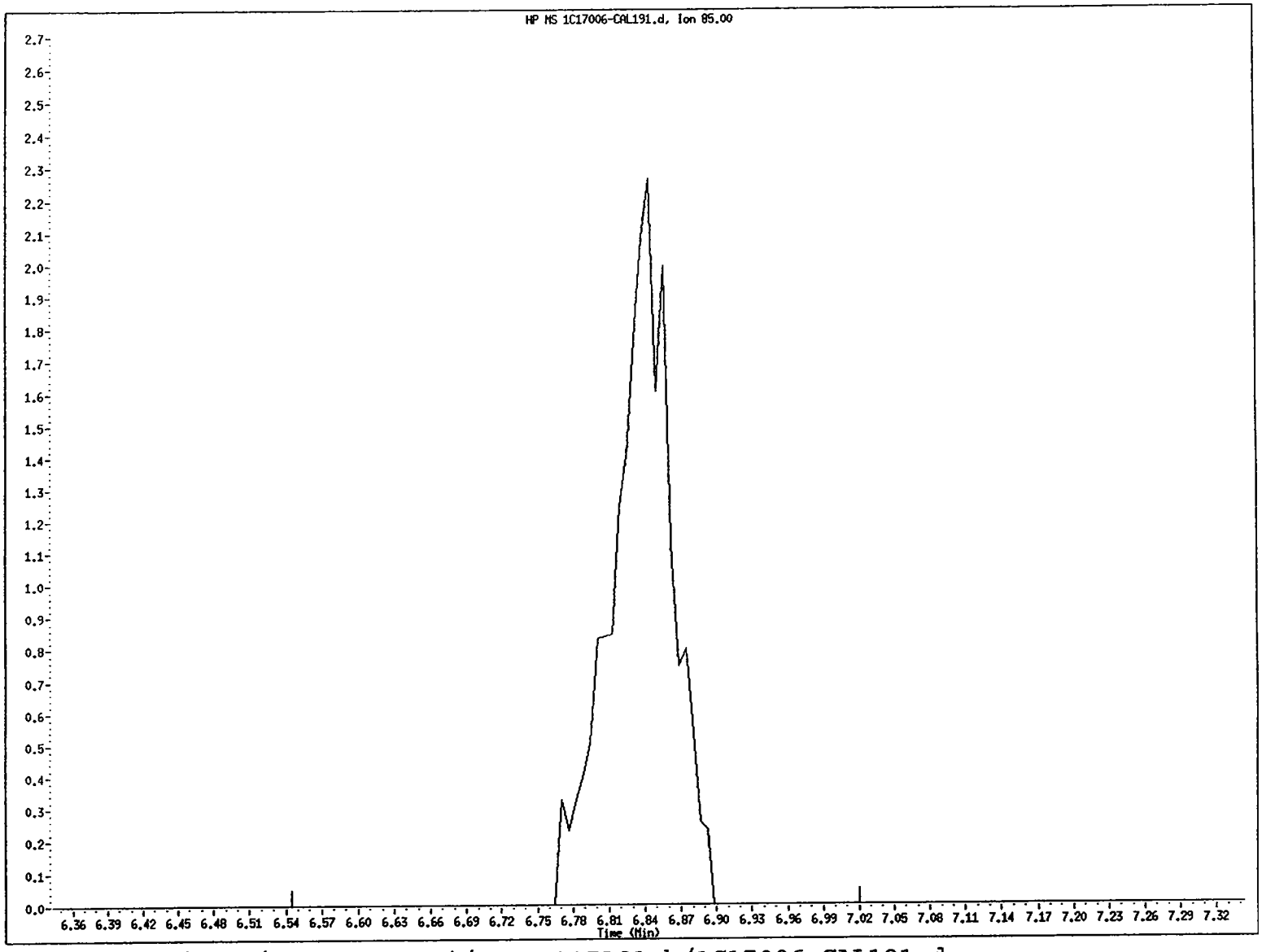
Client ID: VSTD0.5
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 14:56
Retention Time: 6.81
Operator ID: JAO

1,1,2-trichloro-1,2,2-trifluo CAS Number 76-13-1 Area = 7439 Manually integrat



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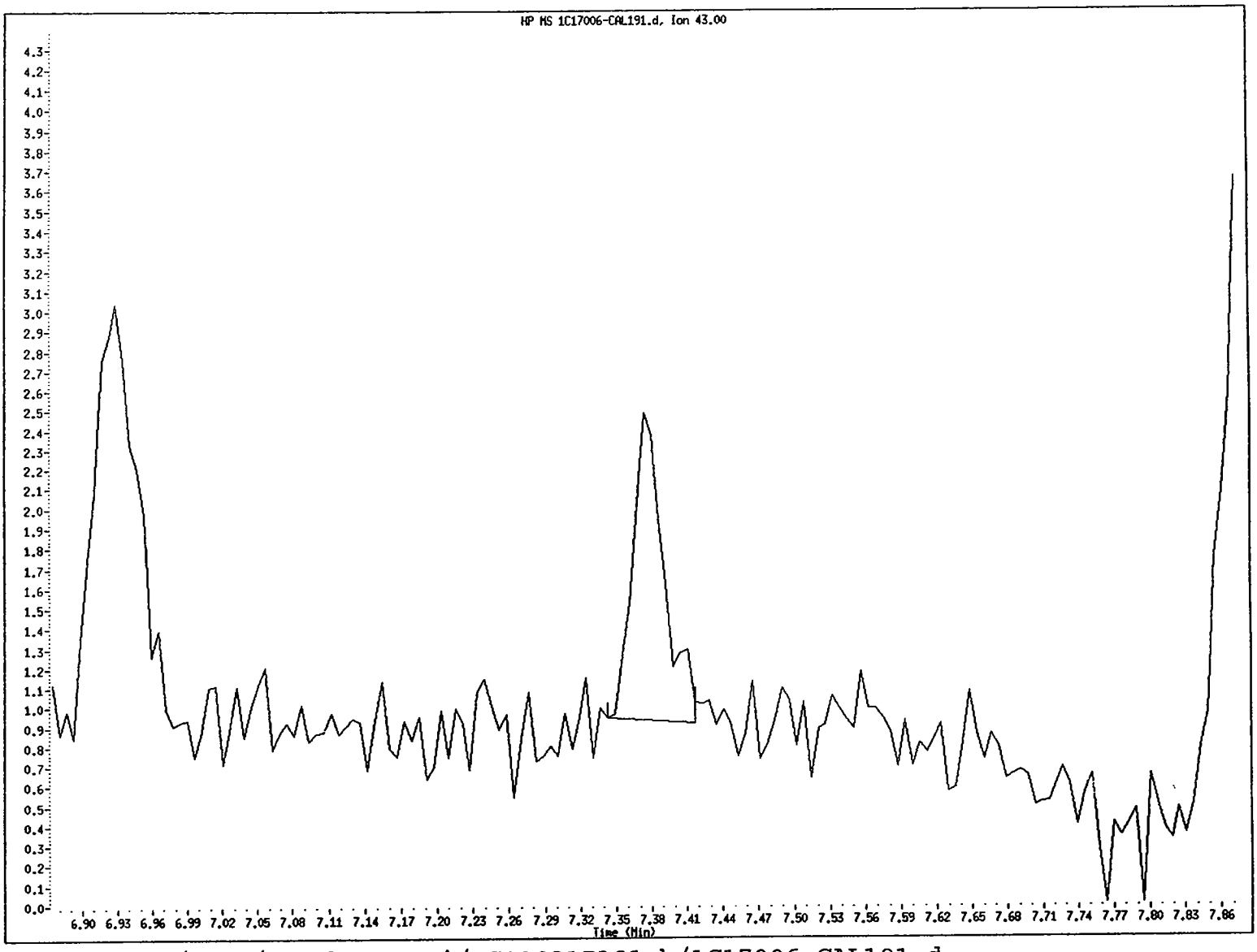
Client ID: VSTD0.5
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 14:56
Retention Time: 6.84
Operator ID: JAO

Methyl acetate CAS Number 79-20-9 Area = 2862 Manually integrated



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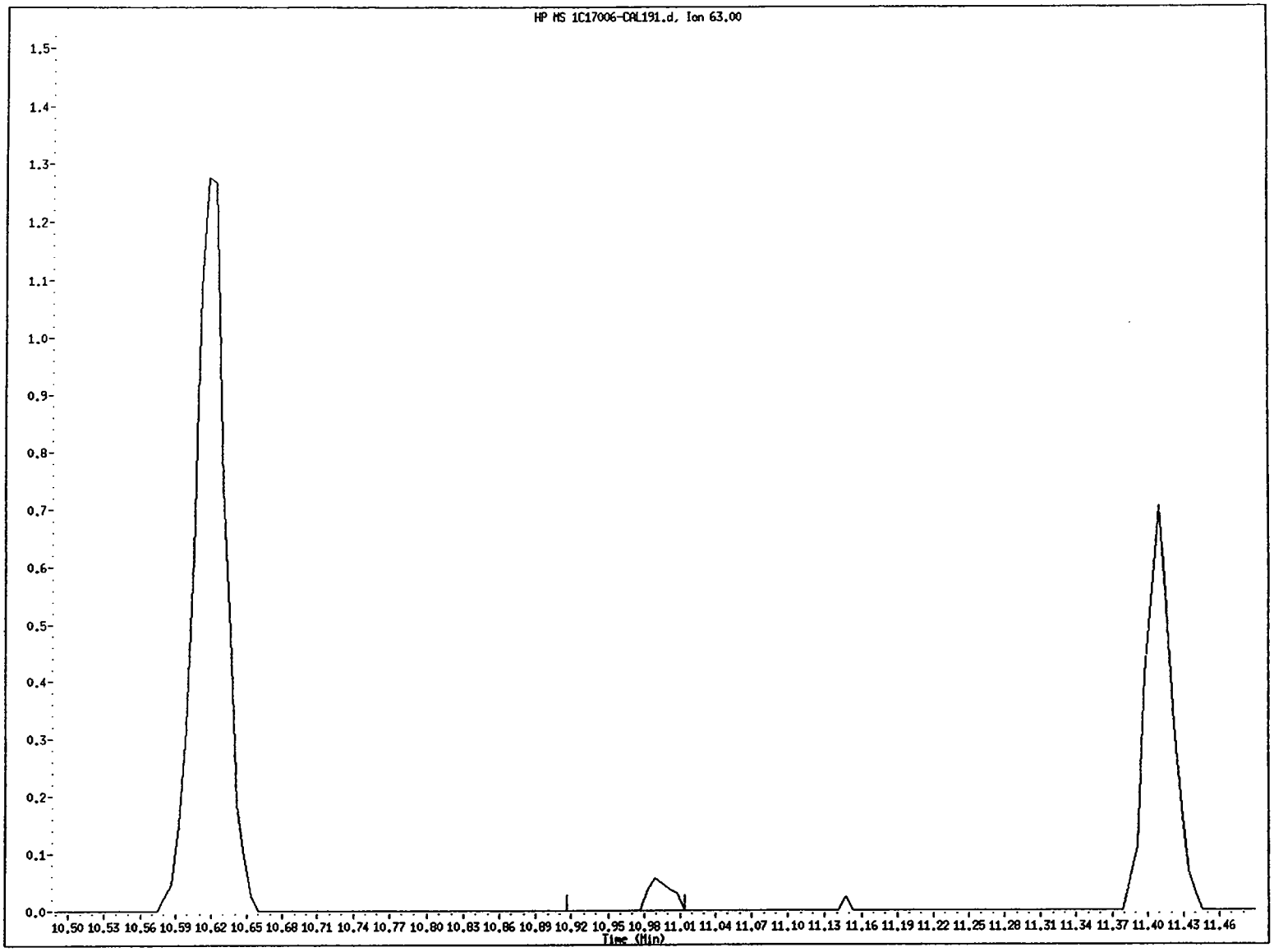
Client ID: VSTD0.5
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 14:56
Retention Time: 7.37
Operator ID: JAO

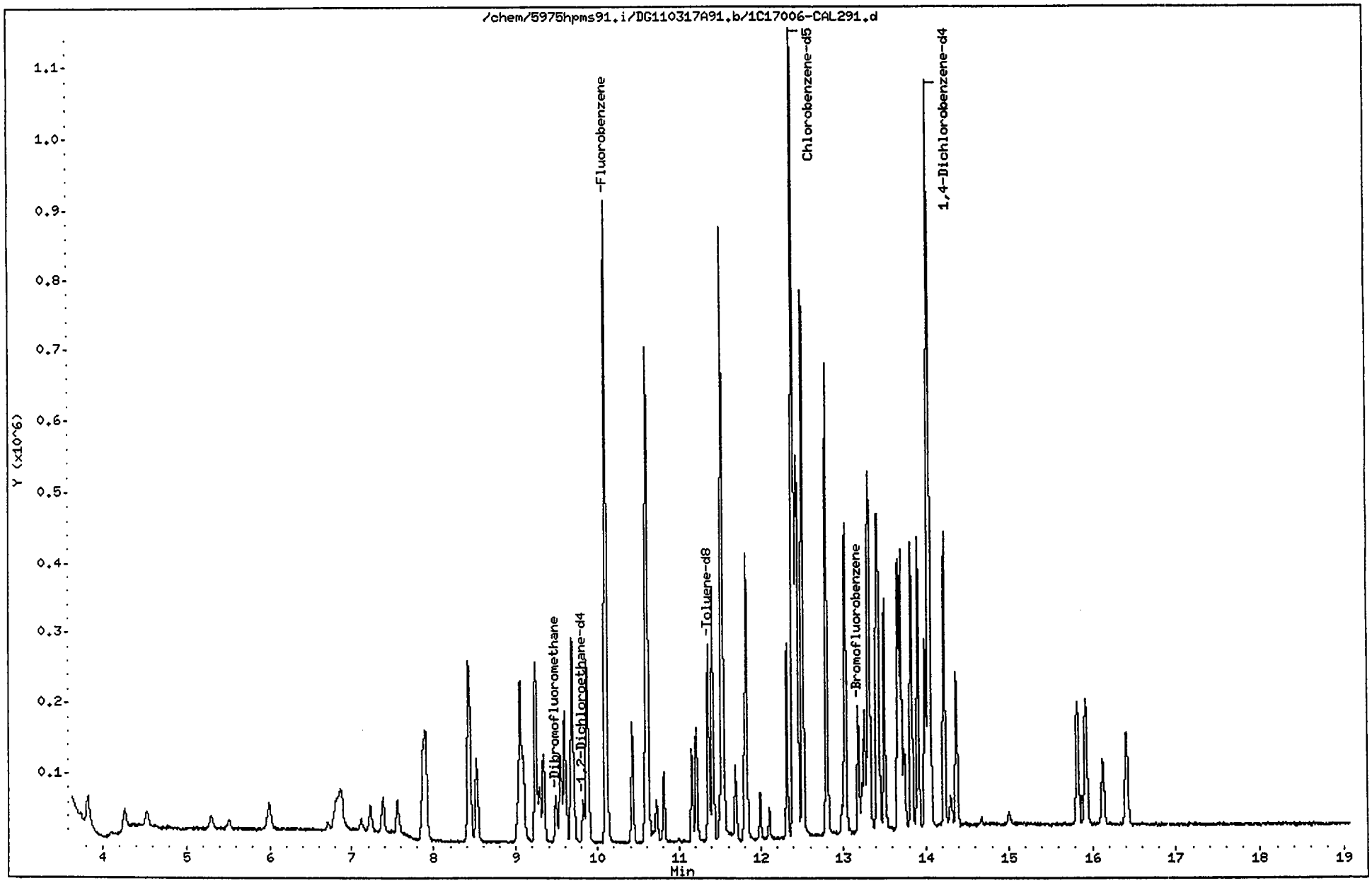
2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 756 Manually integrated



File name: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL191.d
Client ID: VSTD0.5
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 14:56
Retention Time: 10.99
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL291.d
Date : 17-MAR-2011 14:27
Client ID: VSTD001
Sample Info: 1C17006-CAL2:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL291.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL291.d
Lab Smp Id: 1C17006-CAL2 Client Smp ID: VSTD001
Inj Date : 17-MAR-2011 14:27
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL2:JAO
Misc Info : VSTD001
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 14:27 Cal File: 1C17006-CAL291.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.105	10.111	(1.000)	773862	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	537175	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	265593	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	37951	25.0000	24
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	40114	25.0000	24
$ 6 Toluene-d8	98	11.355	11.361	(0.916)	167193	25.0000	25
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	61392	25.0000	23
8 Dichlorodifluoromethane	85	3.832	3.826	(0.379)	63690	25.0000	25
9 Chloromethane	50	4.259	4.265	(0.421)	36527	25.0000	24
10 Vinyl Chloride	62	4.527	4.527	(0.448)	31791	25.0000	25
11 Bromomethane	94	5.301	5.295	(0.525)	18008	25.0000	24
12 Chloroethane	64	5.515	5.508	(0.546)	18031	25.0000	24
13 Trichlorofluoromethane	101	5.990	5.996	(0.593)	45749	25.0000	25
14 Acrolein	56	6.709	6.709	(0.664)	11534	250.000	290
15 1,1,1-trichloro-2,2,2-trifluo	117	6.795	6.807	(0.672)	12707	25.0000	24
16 1,1,2-trichloro-1,2,2-trifluo	85	6.844	6.843	(0.677)	13328	25.0000	23

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Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL291.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	20046	25.0000	24
18 Acetone	43	6.923	6.929	(0.685)	13872	125.000	130
19 Iodomethane	142	7.112	7.118	(0.704)	19594	25.0000	25
20 Carbon disulfide	76	7.228	7.228	(0.715)	64495	25.0000	25
22 3-Chloropropene	39	7.386	7.386	(0.731)	28205	25.0000	24
23 Acetonitrile	41	7.386	7.386	(0.731)	35240	25.0000	24
24 Methyl acetate	43	7.374	7.374	(0.730)	7592	25.0000	28
25 Methylene Chloride	84	7.563	7.563	(0.748)	22643	25.0000	25
26 Acrylonitrile	53	7.868	7.874	(0.779)	64123	250.000	250
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.783)	49626	25.0000	25
27 Methyl-tert-butyl ether	73	7.880	7.880	(0.780)	88876	25.0000	26
30 Isopropyl ether	45	8.435	8.441	(0.835)	140687	25.0000	26
31 Vinyl acetate	43	8.422	8.422	(0.833)	162001	50.0000	51
32 1,1-Dichloroethane	63	8.429	8.435	(0.834)	93290	25.0000	25
33 Chloroprene	53	8.520	8.520	(0.843)	82231	25.0000	25
34 2-butanone	43	9.014	9.014	(0.892)	43822	125.000	130
35 2,2-Dichloropropane	77	9.050	9.050	(0.896)	79974	25.0000	25
36 cis-1,2-Dichloroethene	96	9.057	9.056	(0.896)	50034	25.0000	25
37 Propionitrile	54	9.093	9.093	(0.900)	120449	1250.00	1300
38 Methacrylonitrile	41	9.246	9.245	(0.915)	129024	250.000	260
39 Bromochloromethane	128	9.294	9.294	(0.920)	18779	25.0000	25
40 Chloroform	83	9.337	9.337	(0.924)	90048	25.0000	25
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	85219	25.0000	25
43 Cyclohexane	84	9.599	9.599	(0.950)	73519	25.0000	25
44 1,1-dichloropropene	75	9.691	9.690	(0.959)	72400	25.0000	25
45 Isobutyl alcohol	43	9.678	9.672	(0.958)	34183	1250.00	1300
46 Carbon Tetrachloride	117	9.697	9.703	(0.960)	72712	25.0000	25
47 Benzene	78	9.873	9.873	(0.977)	212654	25.0000	26
48 1,2-Dichloroethane	62	9.892	9.892	(0.979)	54482	25.0000	25
49 Trichloroethene	130	10.428	10.428	(1.032)	51158	25.0000	25
50 Methylcyclohexane	83	10.593	10.593	(1.048)	94722	25.0000	26
51 1,2-Dichloropropane	63	10.617	10.623	(1.051)	46936	25.0000	25
52 Methylmethacrylate	69	10.611	10.611	(1.050)	193213	250.000	260
53 1,4-dioxane	88	10.678	10.684	(1.057)	8156	1250.00	1200
54 Dibromomethane	174	10.727	10.727	(1.062)	17793	25.0000	26
55 Bromodichloromethane	83	10.812	10.812	(1.070)	59807	25.0000	26
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	1427	50.0000	50(M)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.104)	63112	25.0000	25
58 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	100421	125.000	130
59 Toluene	92	11.410	11.410	(0.920)	137072	25.0000	25
60 Ethylmethacrylate	69	11.526	11.525	(0.930)	390288	250.000	260
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	58554	25.0000	27
62 1,1,2-Trichloroethane	97	11.690	11.696	(0.943)	27659	25.0000	25
63 2-hexanone	43	11.800	11.794	(0.952)	69651	125.000	130
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	52979	25.0000	26
65 Tetrachloroethene	164	11.824	11.824	(0.954)	56018	25.0000	25
66 Dibromochloromethane	129	11.995	11.989	(0.968)	30952	25.0000	26

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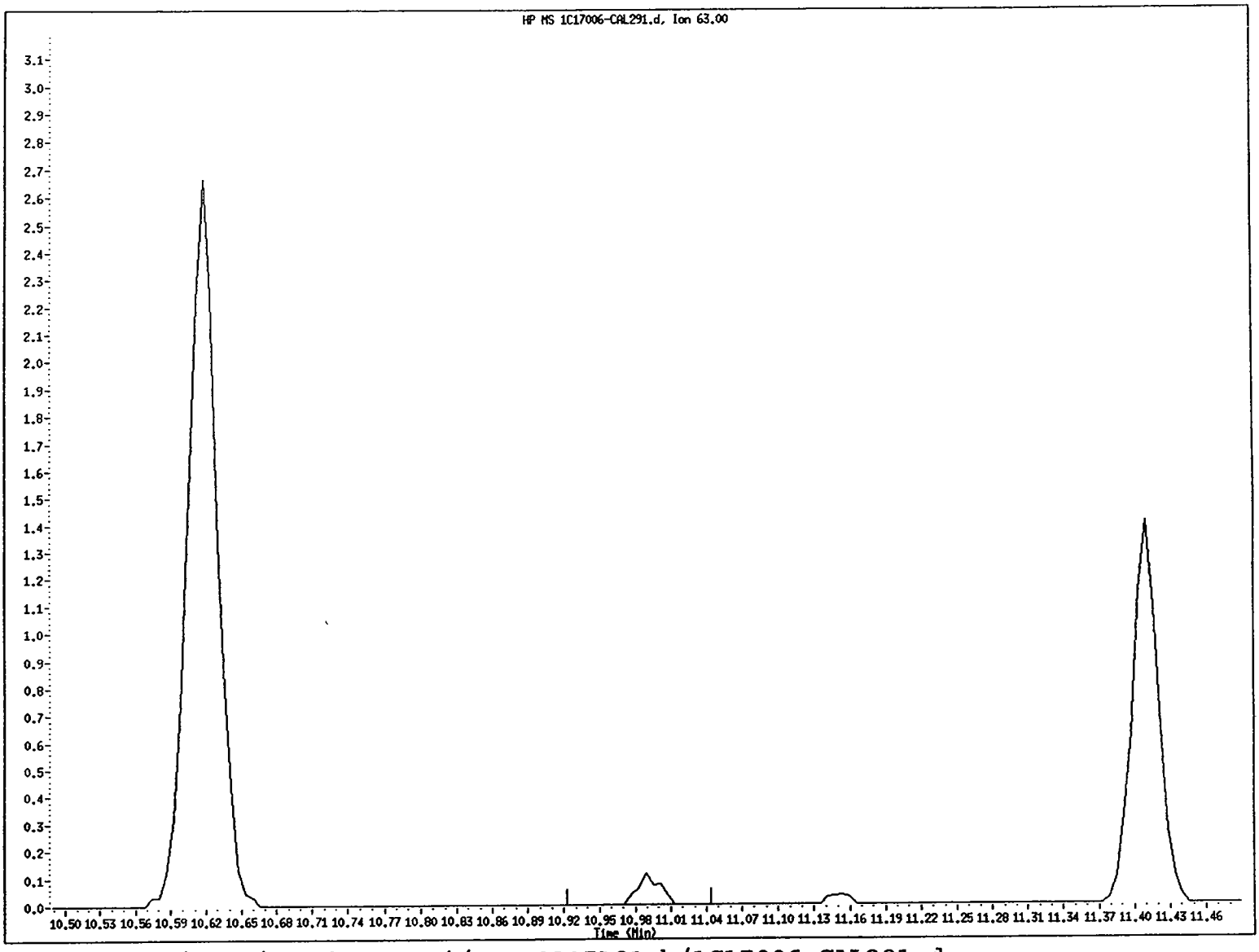
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL291.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	26132	25.0000	26
68 1-Chlorohexane	55	12.324	12.324	(0.994)	56791	25.0000	25
69 Chlorobenzene	112	12.422	12.422	(1.002)	138344	25.0000	25
70 Ethylbenzene	106	12.446	12.446	(1.004)	81870	25.0000	25
71 1,1,1,2-Tetrachloroethane	131	12.452	12.458	(1.004)	43725	25.0000	25
72 m,p-Xylene	106	12.513	12.513	(1.009)	204202	50.0000	51
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	204202	50.0000	51
74 o-Xylene	106	12.800	12.800	(1.032)	96575	25.0000	26
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	96575	25.0000	26
76 Styrene	104	12.806	12.806	(1.033)	148294	25.0000	26
77 Bromoform	173	12.989	12.989	(1.048)	14604	25.0000	26
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	218053	25.0000	26
79 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(0.943)	30346	25.0000	25
81 1,2,3-Trichloropropane	110	13.300	13.293	(1.073)	9065	25.0000	26
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	36921	100.000	100
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	323733	25.0000	25
83 Bromobenzene	156	13.330	13.330	(1.075)	51148	25.0000	26
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	218053	25.0000	26
85 2-Chlorotoluene	126	13.440	13.440	(0.957)	57338	25.0000	24
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	57990	25.0000	25
87 tert-Butyl Benzene	119	13.671	13.671	(0.974)	216356	25.0000	26
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	226333	25.0000	26
89 Pentachloroethane	167	13.745	13.745	(0.979)	18420	25.0000	25
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	295025	25.0000	26
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	239696	25.0000	26
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	110111	25.0000	25
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	112260	25.0000	25
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	239993	25.0000	25
95 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	91672	25.0000	25
96 1,2-Dibromo-3-Chloropropane	75	15.013	15.007	(1.069)	5597	25.0000	22
97 1,2,4-Trichlorobenzene	180	15.830	15.829	(1.128)	66405	25.0000	25
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	41425	25.0000	25
99 Naphthalene	128	16.128	16.128	(1.149)	95074	25.0000	26
100 1,2,3-Trichlorobenzene	180	16.409	16.415	(1.169)	54026	25.0000	26
M 101 1,2-Dichloroethene (total)	96				99660	50.0000	50
M 102 Xylene (total)	106				300777	25.0000	80

QC Flag Legend

M - Compound response manually integrated.

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 1427 Manually integrated



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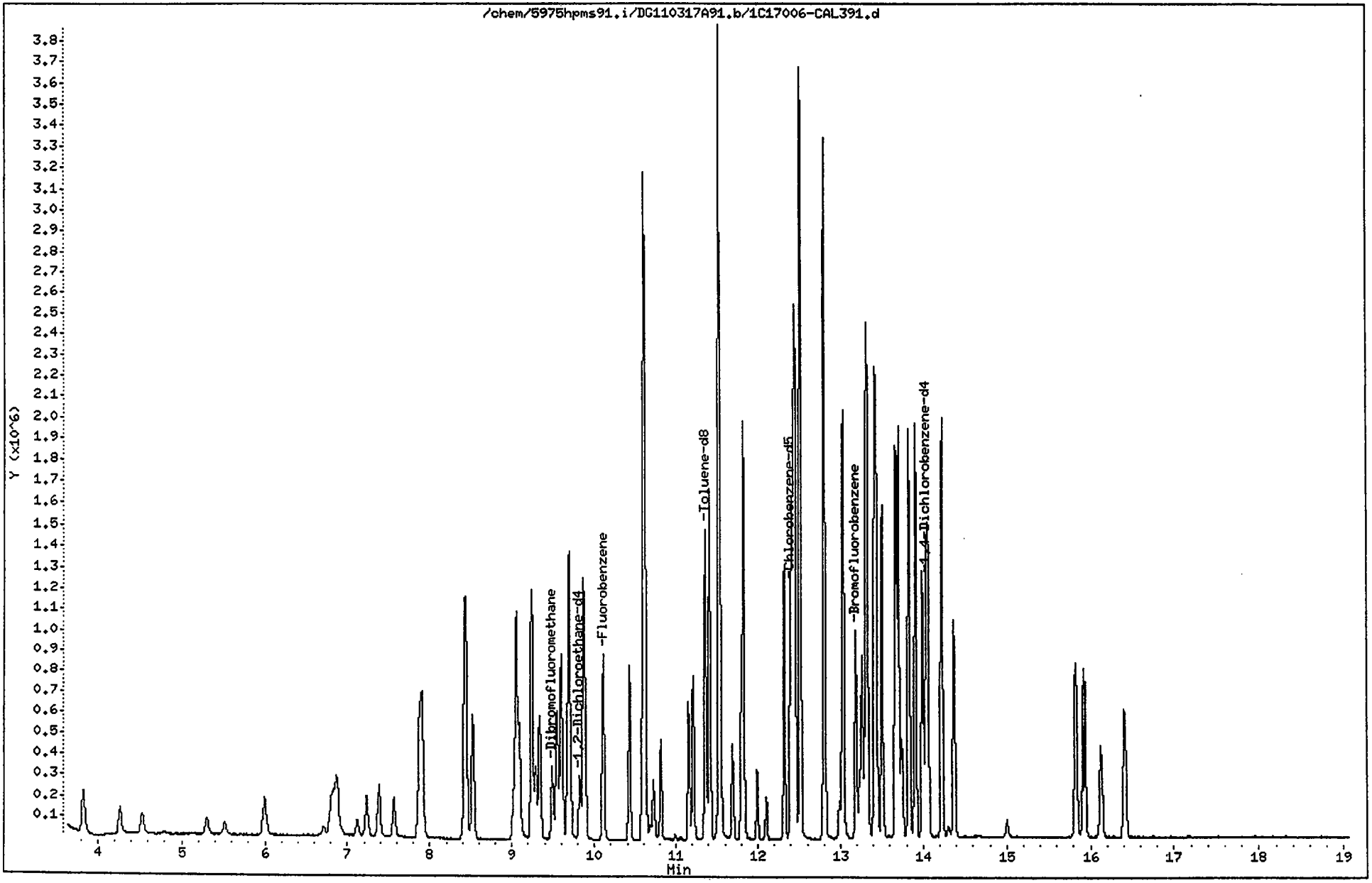
Client ID: VSTD001
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 14:27
Retention Time: 10.99
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Date : 17-MAR-2011 15:25
Client ID: VSTD005
Sample Info: 1C17006-CAL3:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Lab Smp Id: 1C17006-CAL3 Client Smp ID: VSTD005
Inj Date : 17-MAR-2011 15:25
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL3:JAO
Misc Info : VSTD005
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 15:25 Cal File: 1C17006-CAL391.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.105	10.111	(1.000)	751129	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	527640	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	266024	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	198640	125.000	130
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	208753	125.000	130
$ 6 Toluene-d8	98	11.355	11.361	(0.916)	888165	125.000	130
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	341008	125.000	130
8 Dichlorodifluoromethane	85	3.826	3.826	(0.379)	302708	125.000	120
9 Chloromethane	50	4.265	4.265	(0.422)	173504	125.000	120
10 Vinyl Chloride	62	4.527	4.527	(0.448)	147204	125.000	120
11 Bromomethane	94	5.295	5.295	(0.524)	79215	125.000	110
12 Chloroethane	64	5.515	5.508	(0.546)	76084	125.000	110
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	219188	125.000	120
14 Acrolein	56	6.715	6.709	(0.665)	46549	1250.00	1200
15 1,1,1-trichloro-2,2,2-trifluo	117	6.813	6.807	(0.674)	56554	125.000	110
16 1,1,2-trichloro-1,2,2-trifluo	85	6.844	6.843	(0.677)	61798	125.000	120

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Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.880	6.874	(0.681)	92539	125.000	120
18 Acetone	43	6.929	6.929	(0.686)	49567	625.000	520
19 Iodomethane	142	7.118	7.118	(0.704)	100267	125.000	130
20 Carbon disulfide	76	7.234	7.228	(0.716)	323810	125.000	130
22 3-Chloropropene	39	7.386	7.386	(0.731)	137447	125.000	120
23 Acetonitrile	41	7.386	7.386	(0.731)	174645	125.000	120
24 Methyl acetate	43	7.374	7.374	(0.730)	28366	125.000	110
25 Methylene Chloride	84	7.569	7.563	(0.749)	90884	125.000	130
26 Acrylonitrile	53	7.868	7.874	(0.779)	303970	1250.00	1200
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.783)	235817	125.000	120
27 Methyl-tert-butyl ether	73	7.886	7.880	(0.780)	414859	125.000	120
30 Isopropyl ether	45	8.441	8.441	(0.835)	673180	125.000	130
31 Vinyl acetate	43	8.422	8.422	(0.833)	749609	250.000	250
32 1,1-Dichloroethane	63	8.435	8.435	(0.835)	439604	125.000	120
33 Chloroprene	53	8.526	8.520	(0.844)	409774	125.000	130
34 2-butanone	43	9.014	9.014	(0.892)	188222	625.000	580
35 2,2-Dichloropropane	77	9.050	9.050	(0.896)	379920	125.000	120
36 cis-1,2-Dichloroethene	96	9.057	9.056	(0.896)	244811	125.000	130
37 Propionitrile	54	9.093	9.093	(0.900)	563191	6250.00	6200
38 Methacrylonitrile	41	9.245	9.245	(0.915)	605972	1250.00	1200
39 Bromochloromethane	128	9.288	9.294	(0.919)	82830	125.000	120
40 Chloroform	83	9.337	9.337	(0.924)	439347	125.000	120
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	417393	125.000	130
43 Cyclohexane	84	9.605	9.599	(0.951)	364966	125.000	130
44 1,1-dichloropropene	75	9.691	9.690	(0.959)	356643	125.000	130
45 Isobutyl alcohol	43	9.678	9.672	(0.958)	159334	6250.00	6200
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	354955	125.000	130
47 Benzene	78	9.873	9.873	(0.977)	991396	125.000	120
48 1,2-Dichloroethane	62	9.892	9.892	(0.979)	262793	125.000	120
49 Trichloroethene	130	10.428	10.428	(1.032)	248496	125.000	120
50 Methylcyclohexane	83	10.593	10.593	(1.048)	457292	125.000	130
51 1,2-Dichloropropane	63	10.617	10.623	(1.051)	217012	125.000	120
52 Methylmethacrylate	69	10.611	10.611	(1.050)	880502	1250.00	1200
53 1,4-dioxane	88	10.684	10.684	(1.057)	39242	6250.00	6100
54 Dibromomethane	174	10.727	10.727	(1.062)	83244	125.000	130
55 Bromodichloromethane	83	10.812	10.812	(1.070)	284441	125.000	130
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	8189	250.000	250(M)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.104)	316269	125.000	130
58 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	473291	625.000	630
59 Toluene	92	11.410	11.410	(0.920)	642586	125.000	120
60 Ethylmethacrylate	69	11.526	11.525	(0.930)	1773581	1250.00	1200
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	270637	125.000	120
62 1,1,2-Trichloroethane	97	11.690	11.696	(0.943)	132034	125.000	120
63 2-hexanone	43	11.800	11.794	(0.952)	325822	625.000	630
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	244224	125.000	120
65 Tetrachloroethene	164	11.824	11.824	(0.954)	280640	125.000	130
66 Dibromochloromethane	129	11.989	11.989	(0.967)	153648	125.000	130

MH 3-27-11

SAP 03/24/11

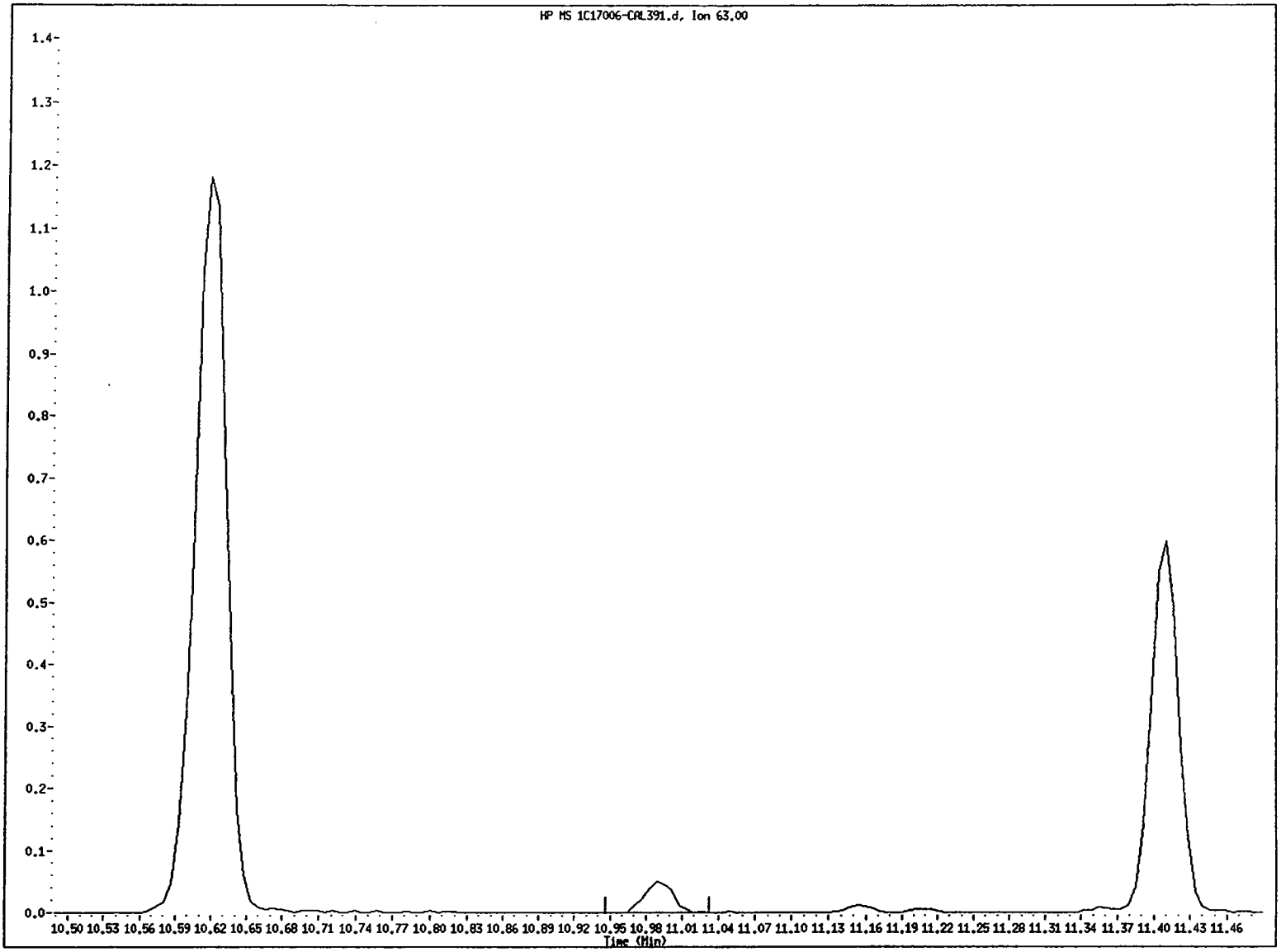
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	121690	125.000	120
68 1-Chlorohexane	55	12.324	12.324	(0.994)	277357	125.000	130
69 Chlorobenzene	112	12.422	12.422	(1.002)	659970	125.000	120
70 Ethylbenzene	106	12.446	12.446	(1.004)	402755	125.000	130
71 1,1,1,2-Tetrachloroethane	131	12.452	12.458	(1.004)	214503	125.000	120
72 m,p-Xylene	106	12.513	12.513	(1.009)	978293	250.000	250
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	978293	250.000	250
74 o-Xylene	106	12.800	12.800	(1.032)	471909	125.000	130
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	471909	125.000	130
76 Styrene	104	12.806	12.806	(1.033)	739195	125.000	130
77 Bromoform	173	12.989	12.989	(1.048)	73379	125.000	130
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	1081349	125.000	130
79 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(0.943)	142265	125.000	120
81 1,2,3-Trichloropropane	110	13.293	13.293	(1.072)	41582	125.000	120
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	183181	500.000	510
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	1585789	125.000	120
83 Bromobenzene	156	13.330	13.330	(1.075)	247937	125.000	130
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	1081349	125.000	130
85 2-Chlorotoluene	126	13.434	13.440	(0.957)	291894	125.000	120
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	292391	125.000	130
87 tert-Butyl Benzene	119	13.665	13.671	(0.973)	1056793	125.000	130
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	1104979	125.000	130
89 Pentachloroethane	167	13.745	13.745	(0.979)	81568	125.000	130
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	1446793	125.000	130
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	1193977	125.000	130
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	528301	125.000	120
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	525178	125.000	120
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	1175815	125.000	120
95 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	443099	125.000	120
96 1,2-Dibromo-3-Chloropropane	75	15.007	15.007	(1.069)	24548	125.000	100
97 1,2,4-Trichlorobenzene	180	15.823	15.829	(1.127)	321060	125.000	120
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	194189	125.000	120
99 Naphthalene	128	16.122	16.128	(1.149)	465890	125.000	130
100 1,2,3-Trichlorobenzene	180	16.415	16.415	(1.169)	251123	125.000	120
M 101 1,2-Dichloroethene (total)	96				480628	250.000	250
M 102 Xylene (total)	106				1450202	125.000	390

QC Flag Legend

M - Compound response manually integrated.

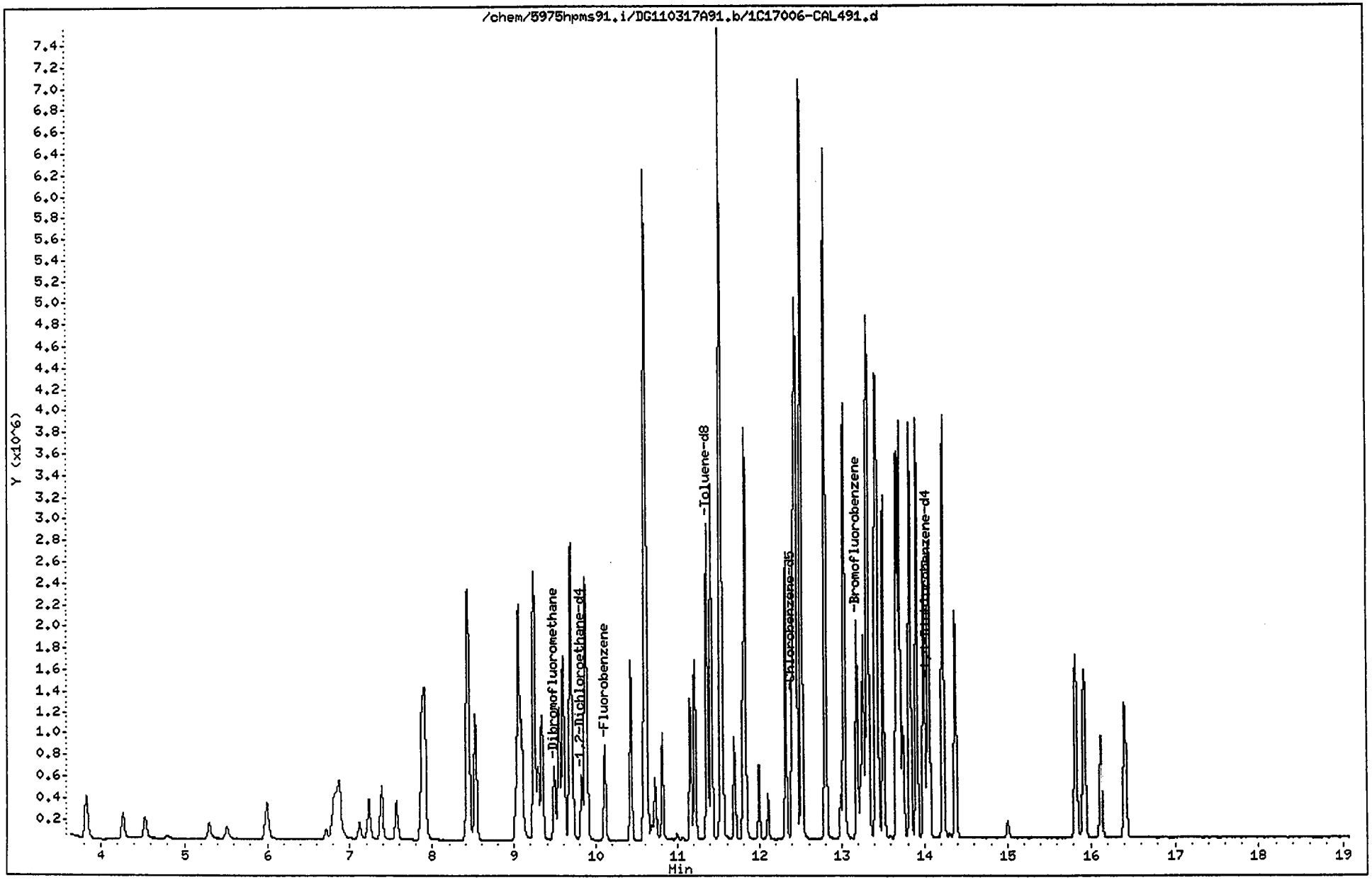
2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 8189 Manually integrated



File name: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL391.d
Client ID: VSTD005
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 15:25
Retention Time: 10.99
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL491.d
Date : 17-MAR-2011 15:54
Client ID: VSTD010
Sample Info: 1C17006-CAL4:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL491.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL491.d
Lab Smp Id: 1C17006-CAL4 Client Smp ID: VSTD010
Inj Date : 17-MAR-2011 15:54
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL4:JAO
Misc Info : VSTD010
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 15:54 Cal File: 1C17006-CAL491.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	763341	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	540213	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	268059	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.938)	405758	250.000	260
$ 5 1,2-Dichloroethane-d4	65	9.824	9.825	(0.972)	429477	250.000	250
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	1791873	250.000	260
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	707331	250.000	260
8 Dichlorodifluoromethane	85	3.826	3.826	(0.378)	609247	250.000	240
9 Chloromethane	50	4.265	4.265	(0.422)	347190	250.000	240
10 Vinyl Chloride	62	4.527	4.527	(0.448)	300916	250.000	240
11 Bromomethane	94	5.301	5.295	(0.524)	151987	250.000	220
12 Chloroethane	64	5.514	5.508	(0.545)	148448	250.000	220
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	432888	250.000	240
14 Acrolein	56	6.709	6.709	(0.664)	91125	2500.00	2400
15 1,1,1-trichloro-2,2,2-trifluo	117	6.807	6.807	(0.673)	110894	250.000	230
16 1,1,2-trichloro-1,2,2-trifluo	85	6.843	6.843	(0.677)	123534	250.000	230

pwlf 3.22.11

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL491.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.880	6.874	(0.680)	189974	250.000	240
18 Acetone	43	6.923	6.929	(0.685)	105127	1250.00	1100
19 Iodomethane	142	7.118	7.118	(0.704)	230228	250.000	280
20 Carbon disulfide	76	7.234	7.228	(0.715)	653522	250.000	250
22 3-Chloropropene	39	7.386	7.386	(0.730)	279319	250.000	240
23 Acetonitrile	41	7.386	7.386	(0.730)	349597	250.000	240
24 Methyl acetate	43	7.380	7.374	(0.730)	63926	250.000	250
25 Methylene Chloride	84	7.569	7.563	(0.749)	176164	250.000	250
26 Acrylonitrile	53	7.874	7.874	(0.779)	641818	2500.00	2500
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	472810	250.000	240
27 Methyl-tert-butyl ether	73	7.880	7.880	(0.779)	888580	250.000	260
30 Isopropyl ether	45	8.441	8.441	(0.835)	1376030	250.000	250
31 Vinyl acetate	43	8.422	8.422	(0.833)	1564764	500.000	500
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	855837	250.000	240
33 Chloroprene	53	8.526	8.520	(0.843)	831657	250.000	260
34 2-butanone	43	9.014	9.014	(0.891)	412482	1250.00	1300
35 2,2-Dichloropropane	77	9.050	9.050	(0.895)	766661	250.000	250
36 cis-1,2-Dichloroethene	96	9.056	9.056	(0.896)	490955	250.000	250
37 Propionitrile	54	9.093	9.093	(0.899)	1191308	12500.0	13000
38 Methacrylonitrile	41	9.245	9.245	(0.914)	1273055	2500.00	2600
39 Bromochloromethane	128	9.294	9.294	(0.919)	171065	250.000	240
40 Chloroform	83	9.343	9.337	(0.924)	883421	250.000	250
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	843909	250.000	250
43 Cyclohexane	84	9.605	9.599	(0.950)	725888	250.000	250
44 1,1-dichloropropene	75	9.690	9.690	(0.958)	702943	250.000	250
45 Isobutyl alcohol	43	9.678	9.672	(0.957)	353014	12500.0	13000
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	711974	250.000	250
47 Benzene	78	9.873	9.873	(0.976)	1987187	250.000	250
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	536988	250.000	250
49 Trichloroethene	130	10.428	10.428	(1.031)	495464	250.000	250
50 Methylcyclohexane	83	10.593	10.593	(1.048)	892214	250.000	240
51 1,2-Dichloropropane	63	10.617	10.623	(1.050)	410253	250.000	230
52 Methylmethacrylate	69	10.611	10.611	(1.049)	1781981	2500.00	2500
53 1,4-dioxane	88	10.684	10.684	(1.057)	95596	12500.0	14000
54 Dibromomethane	174	10.727	10.727	(1.061)	176483	250.000	260
55 Bromodichloromethane	83	10.812	10.812	(1.069)	597693	250.000	260
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	20291	500.000	510(M)
57 cis-1,3-Dichloropropene	75	11.153	11.154	(1.103)	665608	250.000	260
58 4-Methyl-2-pentanone	43	11.208	11.208	(0.904)	1045673	1250.00	1300
59 Toluene	92	11.410	11.410	(0.920)	1282858	250.000	240
60 Ethylmethacrylate	69	11.525	11.525	(0.930)	3543293	2500.00	2400
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	563210	250.000	250
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	276753	250.000	250
63 2-hexanone	43	11.800	11.794	(0.952)	723927	1250.00	1300
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	497628	250.000	240
65 Tetrachloroethene	164	11.824	11.824	(0.954)	550107	250.000	240
66 Dibromochloromethane	129	11.995	11.989	(0.968)	329798	250.000	270

pmk 3-22-11

SAP 03/24/11

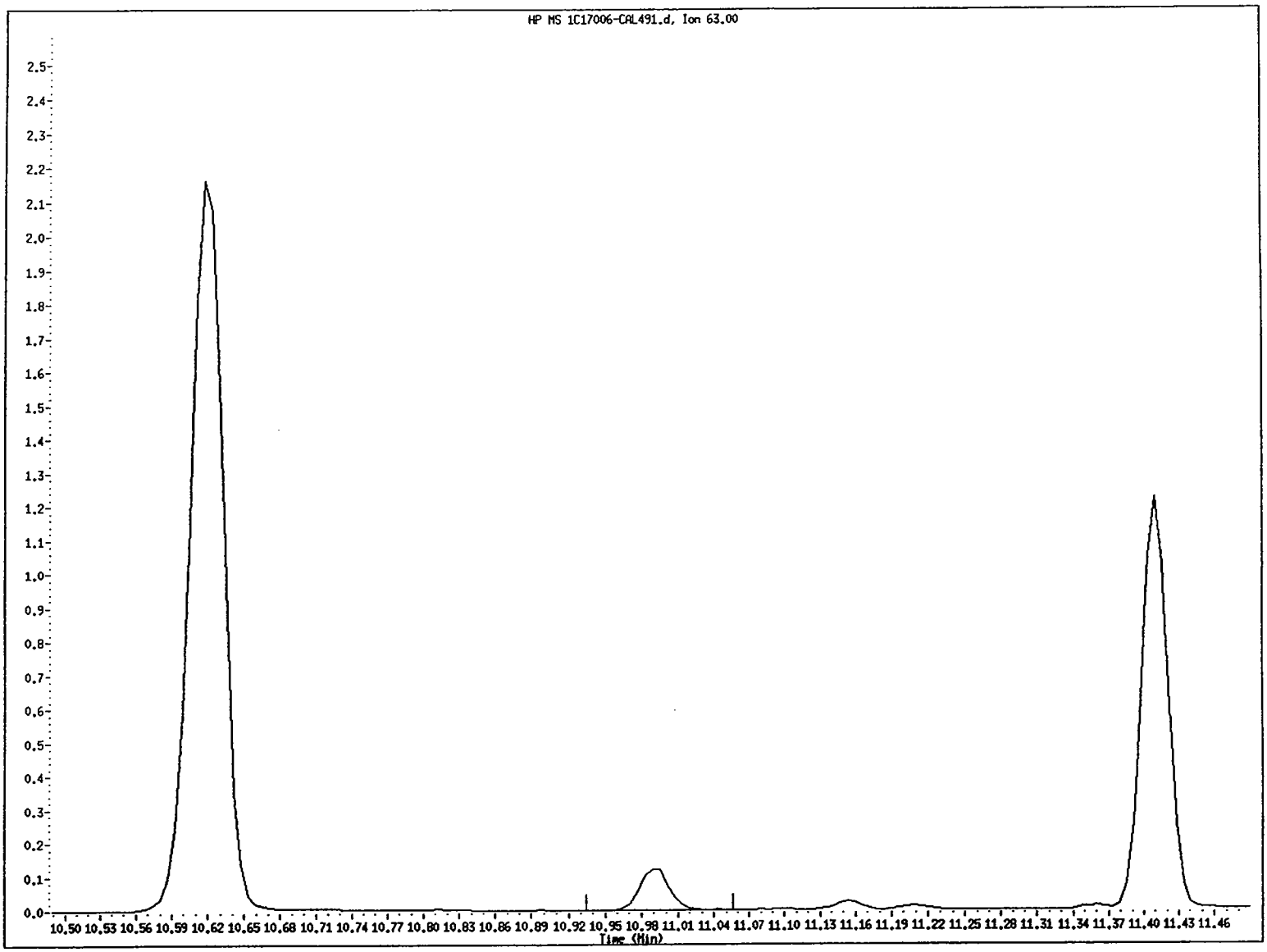
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL491.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	261402	250.000	260
68 1-Chlorohexane	55	12.324	12.324	(0.994)	555812	250.000	250
69 Chlorobenzene	112	12.422	12.422	(1.002)	1332805	250.000	240
70 Ethylbenzene	106	12.446	12.446	(1.004)	793812	250.000	240
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	443991	250.000	250
72 m,p-Xylene	106	12.513	12.513	(1.009)	1936884	500.000	480
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	1936884	500.000	480
74 o-Xylene	106	12.800	12.800	(1.032)	937107	250.000	250
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	937107	250.000	250
76 Styrene	104	12.806	12.806	(1.033)	1491676	250.000	250
77 Bromoform	173	12.989	12.989	(1.048)	168013	250.000	280
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	2157643	250.000	250
79 1,1,2,2-Tetrachloroethane	83	13.232	13.232	(0.943)	306892	250.000	260
81 1,2,3-Trichloropropane	110	13.293	13.293	(1.072)	90792	250.000	260
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	395569	1000.00	1100
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	3119816	250.000	240
83 Bromobenzene	156	13.330	13.330	(1.075)	502133	250.000	250
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	2157643	250.000	250
85 2-Chlorotoluene	126	13.434	13.440	(0.957)	581796	250.000	250
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	603950	250.000	260
87 tert-Butyl Benzene	119	13.671	13.671	(0.974)	2118094	250.000	250
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	2212504	250.000	250
89 Pentachloroethane	167	13.744	13.745	(0.979)	191246	250.000	250
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	2875424	250.000	250
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	2375575	250.000	250
92 1,3-Dichlorobenzene	146	13.994	13.995	(0.997)	1075182	250.000	250
93 1,4-Dichlorobenzene	146	14.061	14.062	(1.002)	1068155	250.000	240
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	2334200	250.000	250
95 1,2-Dichlorobenzene	146	14.372	14.372	(1.024)	912651	250.000	250
96 1,2-Dibromo-3-Chloropropane	75	15.006	15.007	(1.069)	53628	250.000	230
97 1,2,4-Trichlorobenzene	180	15.823	15.829	(1.127)	656289	250.000	250
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	394073	250.000	240
99 Naphthalene	128	16.122	16.128	(1.149)	1019879	250.000	270
100 1,2,3-Trichlorobenzene	180	16.409	16.415	(1.169)	531113	250.000	250
M 101 1,2-Dichloroethene (total)	96				963765	500.000	490
M 102 Xylene (total)	106				2873991	250.000	760

QC Flag Legend

M - Compound response manually integrated.

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 20291 Manually integrated



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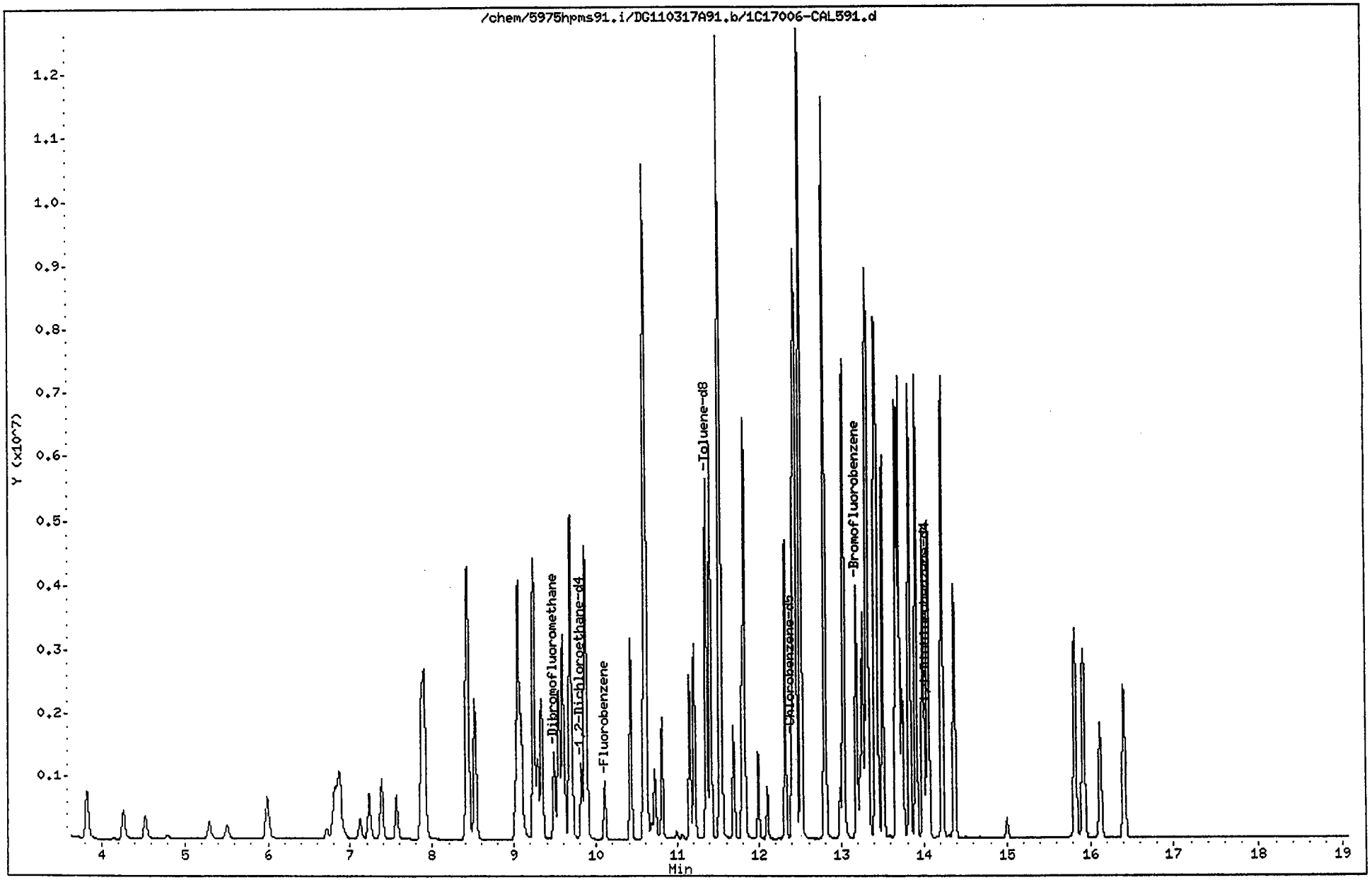
Client ID: VSTD010
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 15:54
Retention Time: 10.99
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Date : 17-MAR-2011 16:23
Client ID: VSTD020
Sample Info: 1C17006-CAL5:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Lab Smp Id: 1C17006-CAL5 Client Smp ID: VSTD020
Inj Date : 17-MAR-2011 16:23
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL5:JAO
Misc Info : VSTD020
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:23 Cal File: 1C17006-CAL591.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.105	10.111	(1.000)	768594	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	539977	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	265465	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	804491	500.000	500
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	831789	500.000	490
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	3471631	500.000	500
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	1368068	500.000	510
8 Dichlorodifluoromethane	85	3.826	3.826	(0.379)	1171199	500.000	470
9 Chloromethane	50	4.265	4.265	(0.422)	684516	500.000	480
10 Vinyl Chloride	62	4.527	4.527	(0.448)	591767	500.000	480
11 Bromomethane	94	5.295	5.295	(0.524)	297051	500.000	440
12 Chloroethane	64	5.515	5.508	(0.546)	299431	500.000	450
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	850552	500.000	480
14 Acrolein	56	6.709	6.709	(0.664)	177513	5000.00	4700
15 1,1,1-trichloro-2,2,2-trifluo	117	6.801	6.807	(0.673)	220946	500.000	460
16 1,1,2-trichloro-1,2,2-trifluo	85	6.844	6.843	(0.677)	238817	500.000	460

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Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	366881	500.000	470
18 Acetone	43	6.929	6.929	(0.686)	202406	2500.00	2200
19 Iodomethane	142	7.118	7.118	(0.704)	474687	500.000	550
20 Carbon disulfide	76	7.234	7.228	(0.716)	1288197	500.000	490
22 3-Chloropropene	39	7.386	7.386	(0.731)	553042	500.000	480
23 Acetonitrile	41	7.386	7.386	(0.731)	696332	500.000	480
24 Methyl acetate	43	7.374	7.374	(0.730)	120928	500.000	480
25 Methylene Chloride	84	7.563	7.563	(0.748)	347045	500.000	500
26 Acrylonitrile	53	7.874	7.874	(0.779)	1181319	5000.00	4700
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.783)	897640	500.000	470
27 Methyl-tert-butyl ether	73	7.880	7.880	(0.780)	1669226	500.000	490
30 Isopropyl ether	45	8.435	8.441	(0.835)	2541851	500.000	470
31 Vinyl acetate	43	8.423	8.422	(0.833)	2945007	1000.00	950
32 1,1-Dichloroethane	63	8.435	8.435	(0.835)	1594253	500.000	450
33 Chloroprene	53	8.526	8.520	(0.844)	1596956	500.000	490
34 2-butanone	43	9.014	9.014	(0.892)	773376	2500.00	2400
35 2,2-Dichloropropane	77	9.050	9.050	(0.896)	1453040	500.000	470
36 cis-1,2-Dichloroethene	96	9.057	9.056	(0.896)	923360	500.000	470
37 Propionitrile	54	9.093	9.093	(0.900)	2169778	25000.0	24000
38 Methacrylonitrile	41	9.246	9.245	(0.915)	2299147	5000.00	4700
39 Bromochloromethane	128	9.294	9.294	(0.920)	320466	500.000	460
40 Chloroform	83	9.337	9.337	(0.924)	1695343	500.000	480
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	1632549	500.000	480
43 Cyclohexane	84	9.599	9.599	(0.950)	1402793	500.000	480
44 1,1-dichloropropene	75	9.691	9.690	(0.959)	1310291	500.000	470
45 Isobutyl alcohol	43	9.672	9.672	(0.957)	683362	25000.0	25000
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	1375070	500.000	480
47 Benzene	78	9.873	9.873	(0.977)	3740792	500.000	470
48 1,2-Dichloroethane	62	9.892	9.892	(0.979)	1019169	500.000	480
49 Trichloroethene	130	10.428	10.428	(1.032)	964310	500.000	480
50 Methylcyclohexane	83	10.593	10.593	(1.048)	1601764	500.000	450
51 1,2-Dichloropropane	63	10.617	10.623	(1.051)	724849	500.000	420
52 Methylmethacrylate	69	10.611	10.611	(1.050)	3091543	5000.00	4400
53 1,4-dioxane	88	10.684	10.684	(1.057)	184588	25000.0	27000
54 Dibromomethane	174	10.727	10.727	(1.062)	337945	500.000	490
55 Bromodichloromethane	83	10.812	10.812	(1.070)	1163475	500.000	500
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	42688	1000.00	1000(M)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.104)	1296264	500.000	510
58 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	1919230	2500.00	2500
59 Toluene	92	11.410	11.410	(0.920)	2426667	500.000	460
60 Ethylmethacrylate	69	11.526	11.525	(0.930)	6059987	5000.00	4300
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	1053562	500.000	480
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	523297	500.000	480
63 2-hexanone	43	11.794	11.794	(0.951)	1305498	2500.00	2400
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	898953	500.000	450
65 Tetrachloroethene	164	11.824	11.824	(0.954)	946536	500.000	430
66 Dibromochloromethane	129	11.989	11.989	(0.967)	653879	500.000	520

MW 3-22-11

SM 03/24/11

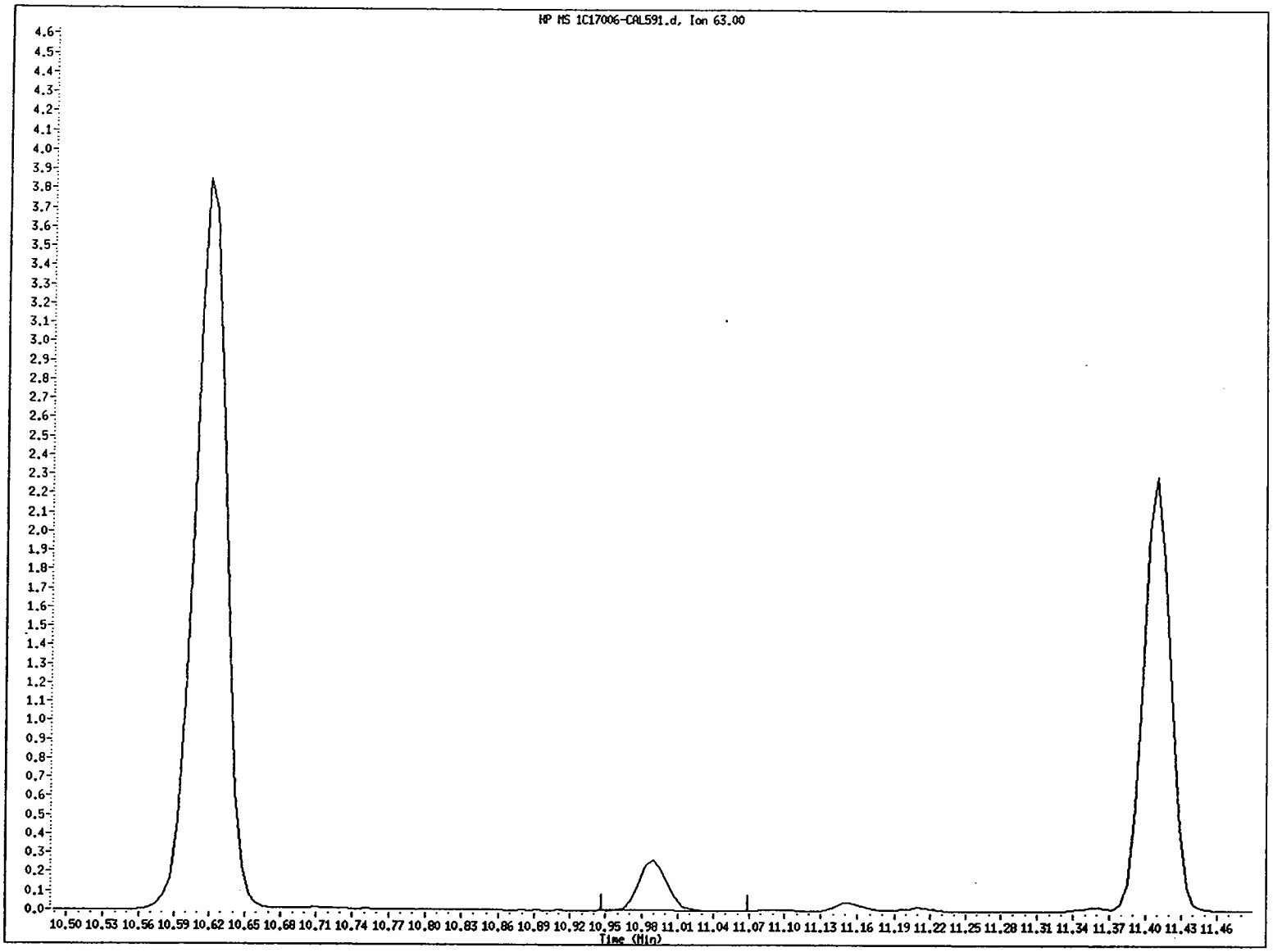
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	499470	500.000	490
68 1-Chlorohexane	55	12.324	12.324	(0.994)	1032199	500.000	470
69 Chlorobenzene	112	12.422	12.422	(1.002)	2513541	500.000	460
70 Ethylbenzene	106	12.446	12.446	(1.004)	1461197	500.000	460
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	847380	500.000	480
72 m,p-Xylene	106	12.513	12.513	(1.009)	3552864	1000.00	910
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	3552864	1000.00	910
74 o-Xylene	106	12.800	12.800	(1.032)	1713690	500.000	460
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	1713690	500.000	460
76 Styrene	104	12.806	12.806	(1.033)	2751828	500.000	470
77 Bromoform	173	12.989	12.989	(1.048)	338479	500.000	550
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	4067686	500.000	480
79 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(0.943)	576143	500.000	490
81 1,2,3-Trichloropropane	110	13.294	13.293	(1.072)	166995	500.000	480
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	736651	2000.00	2000
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	5834740	500.000	470
83 Bromobenzene	156	13.330	13.330	(1.075)	951121	500.000	480
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	4067686	500.000	480
85 2-Chlorotoluene	126	13.440	13.440	(0.957)	1090555	500.000	470
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	1146486	500.000	490
87 tert-Butyl Benzene	119	13.665	13.671	(0.973)	4015176	500.000	480
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	4218567	500.000	480
89 Pentachloroethane	167	13.745	13.745	(0.979)	448923	500.000	500
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	5461521	500.000	480
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	4519979	500.000	490
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	2061579	500.000	490
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	2038882	500.000	470
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	4387501	500.000	470
95 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	1727259	500.000	480
96 1,2-Dibromo-3-Chloropropane	75	15.007	15.007	(1.069)	104395	500.000	460
97 1,2,4-Trichlorobenzene	180	15.824	15.829	(1.127)	1276689	500.000	490
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	763631	500.000	480
99 Naphthalene	128	16.122	16.128	(1.149)	1970359	500.000	520
100 1,2,3-Trichlorobenzene	180	16.409	16.415	(1.169)	1030574	500.000	500
M 101 1,2-Dichloroethene (total)	96				1821000	1000.00	940
M 102 Xylene (total)	106				5266554	500.000	1400

QC Flag Legend

M - Compound response manually integrated.

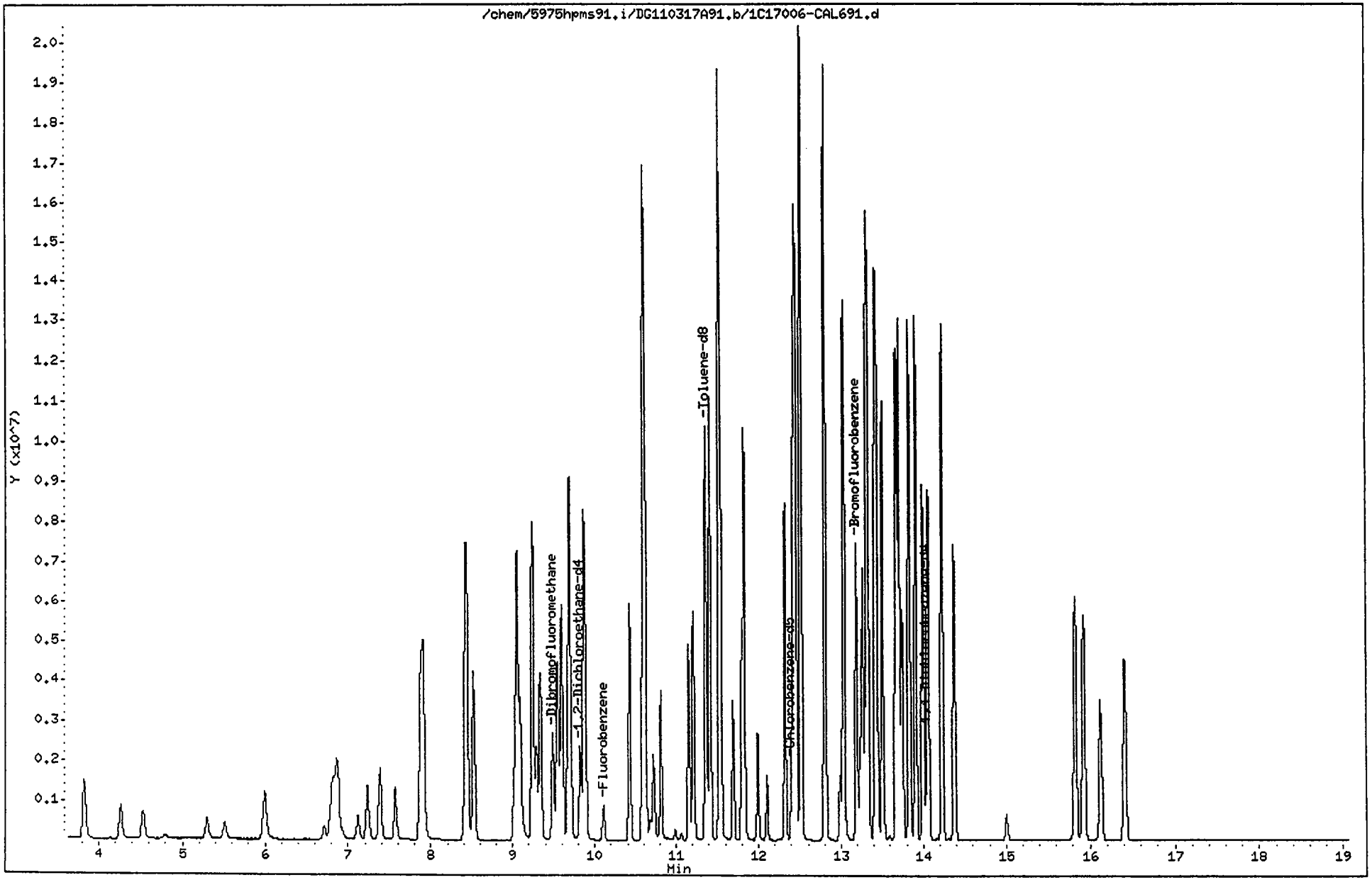
2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 42688 Manually integrated



File name: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL591.d
Client ID: VSTD020
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 16:23
Retention Time: 10.99
Operator ID: JAO

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Date : 17-MAR-2011 16:52
Client ID: VSTD040
Sample Info: 1C17006-CAL6:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Report Date: 22-Mar-2011 11:15

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Lab Smp Id: 1C17006-CAL6 Client Smp ID: VSTD040
Inj Date : 17-MAR-2011 16:52
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C17006-CAL6:JAO
Misc Info : VSTD040
Comment :
Method : /chem/5975hpms91.i/DG110317A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:15 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	771245	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	535224	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	265014	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	1611629	1000.00	1000(A)
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	1651627	1000.00	980
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	6648380	1000.00	970
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	2631452	1000.00	980
8 Dichlorodifluoromethane	85	3.826	3.826	(0.378)	2237828	1000.00	920
9 Chloromethane	50	4.265	4.265	(0.422)	1268476	1000.00	900
10 Vinyl Chloride	62	4.527	4.527	(0.448)	1141334	1000.00	940
11 Bromomethane	94	5.295	5.295	(0.524)	570106	1000.00	870
12 Chloroethane	64	5.508	5.508	(0.545)	571388	1000.00	880
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	1626287	1000.00	930
14 Acrolein	56	6.709	6.709	(0.664)	367274	10000.0	9700
15 1,1,1-trichloro-2,2,2-trifluo	117	6.807	6.807	(0.673)	424095	1000.00	890
16 1,1,2-trichloro-1,2,2-trifluo	85	6.843	6.843	(0.677)	453934	1000.00	890

pmk 3.22.11

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	709302	1000.00	910
18 Acetone	43	6.929	6.929	(0.685)	408880	5000.00	4500
19 Iodomethane	142	7.118	7.118	(0.704)	899878	1000.00	1000(A)
20 Carbon disulfide	76	7.228	7.228	(0.715)	2499525	1000.00	960
22 3-Chloropropene	39	7.386	7.386	(0.730)	1058064	1000.00	930
23 Acetonitrile	41	7.386	7.386	(0.730)	1346379	1000.00	940
24 Methyl acetate	43	7.374	7.374	(0.729)	239546	1000.00	950
25 Methylene Chloride	84	7.563	7.563	(0.748)	672026	1000.00	990
26 Acrylonitrile	53	7.874	7.874	(0.779)	2216924	10000.0	9000
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	1679220	1000.00	890
27 Methyl-tert-butyl ether	73	7.880	7.880	(0.779)	3221571	1000.00	950
30 Isopropyl ether	45	8.441	8.441	(0.835)	4529878	1000.00	860
31 Vinyl acetate	43	8.422	8.422	(0.833)	5581637	2000.00	1800
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	2876085	1000.00	830
33 Chloroprene	53	8.520	8.520	(0.843)	3025192	1000.00	940
34 2-butanone	43	9.014	9.014	(0.891)	1480032	5000.00	4600
35 2,2-Dichloropropane	77	9.050	9.050	(0.895)	2721314	1000.00	900
36 cis-1,2-Dichloroethene	96	9.056	9.056	(0.896)	1701367	1000.00	890
37 Propionitrile	54	9.093	9.093	(0.899)	4116060	50000.0	45000
38 Methacrylonitrile	41	9.245	9.245	(0.914)	4202823	10000.0	8700
39 Bromochloromethane	128	9.294	9.294	(0.919)	605379	1000.00	890
40 Chloroform	83	9.337	9.337	(0.923)	3247009	1000.00	920
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	3156680	1000.00	940
43 Cyclohexane	84	9.599	9.599	(0.949)	2681964	1000.00	930
44 1,1-dichloropropene	75	9.690	9.690	(0.958)	2371334	1000.00	860
45 Isobutyl alcohol	43	9.672	9.672	(0.957)	1284926	50000.0	48000
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	2612868	1000.00	930
47 Benzene	78	9.873	9.873	(0.976)	6884199	1000.00	880
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	1948624	1000.00	920
49 Trichloroethene	130	10.428	10.428	(1.031)	1808759	1000.00	910
50 Methylcyclohexane	83	10.593	10.593	(1.048)	2774595	1000.00	800
51 1,2-Dichloropropane	63	10.623	10.623	(1.051)	1210764	1000.00	700
52 Methylmethacrylate	69	10.611	10.611	(1.049)	5215735	10000.0	7700
53 1,4-dioxane	88	10.684	10.684	(1.057)	375749	50000.0	53000(A)
54 Dibromomethane	174	10.727	10.727	(1.061)	666579	1000.00	980
55 Bromodichloromethane	83	10.812	10.812	(1.069)	2251879	1000.00	970
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	92253	2000.00	2000(AM)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.103)	2474314	1000.00	970
58 4-Methyl-2-pentanone	43	11.208	11.208	(0.904)	3643709	5000.00	4800
59 Toluene	92	11.410	11.410	(0.920)	4496701	1000.00	890
60 Ethylmethacrylate	69	11.525	11.525	(0.930)	10053928	10000.0	7600
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	1940374	1000.00	910
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	1020044	1000.00	960
63 2-hexanone	43	11.794	11.794	(0.951)	2481122	5000.00	4700
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	1628448	1000.00	850
65 Tetrachloroethene	164	11.824	11.824	(0.954)	1449670	1000.00	670
66 Dibromochloromethane	129	11.989	11.989	(0.967)	1306648	1000.00	1000(A)

MWD 3-22-11

SM 03/24/11

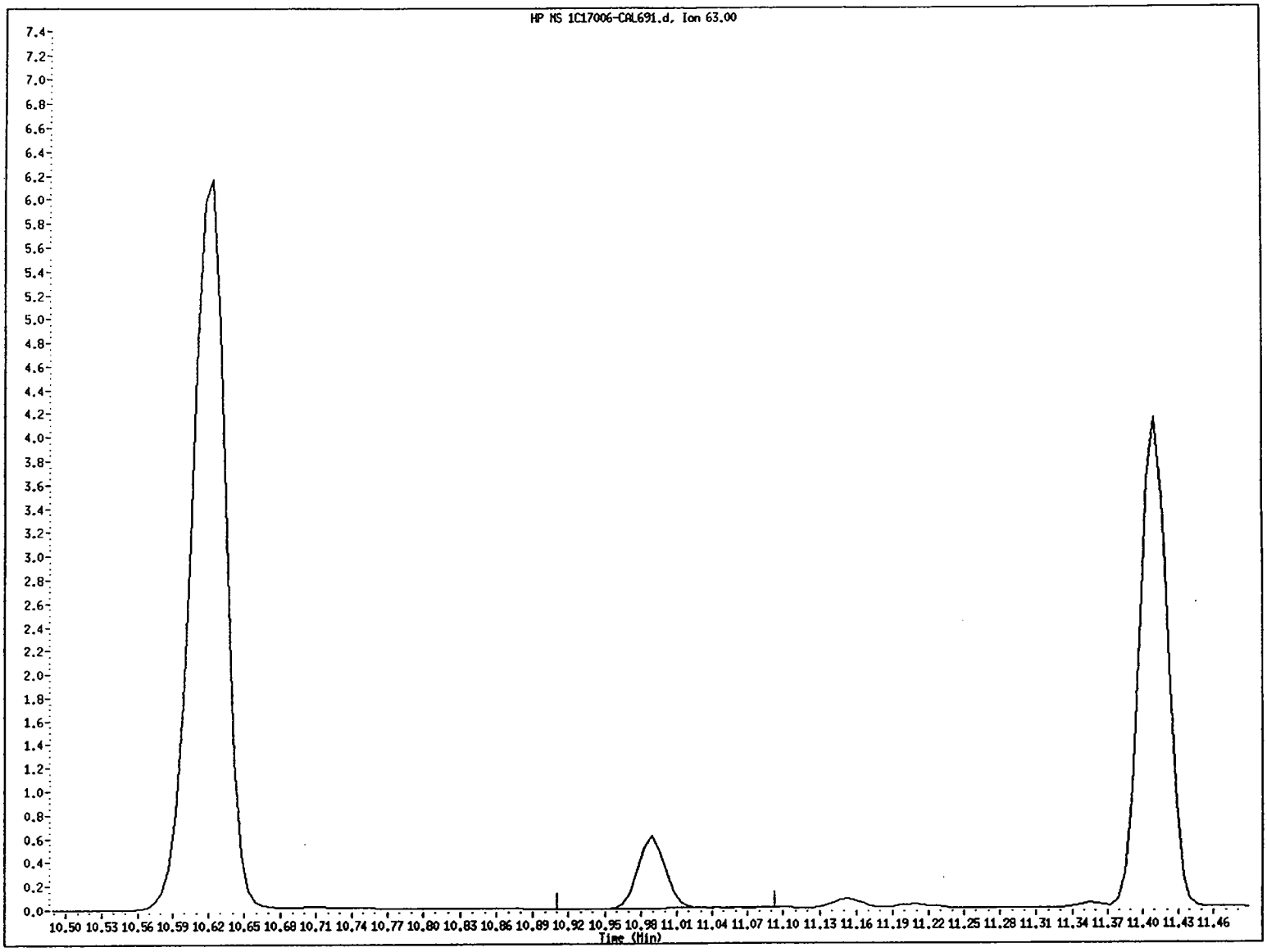
Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Report Date: 22-Mar-2011 11:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	987580	1000.00	980
68 1-Chlorohexane	55	12.324	12.324	(0.994)	1886182	1000.00	880
69 Chlorobenzene	112	12.422	12.422	(1.002)	4666886	1000.00	890
70 Ethylbenzene	106	12.446	12.446	(1.004)	2556721	1000.00	840
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	1582841	1000.00	930
72 m,p-Xylene	106	12.513	12.513	(1.009)	6074527	2000.00	1600
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	6074527	2000.00	1600
74 o-Xylene	106	12.800	12.800	(1.032)	2976169	1000.00	840
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	2976169	1000.00	840
76 Styrene	104	12.806	12.806	(1.033)	4832692	1000.00	860
77 Bromoform	173	12.989	12.989	(1.048)	705710	1000.00	1100(A)
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	7435378	1000.00	900
79 1,1,2,2-Tetrachloroethane	83	13.232	13.232	(0.943)	1140822	1000.00	970
81 1,2,3-Trichloropropane	110	13.293	13.293	(1.072)	324172	1000.00	950
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	1412733	4000.00	3800
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	10385857	1000.00	860
83 Bromobenzene	156	13.330	13.330	(1.075)	1755935	1000.00	910
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.956)	7435378	1000.00	900
85 2-Chlorotoluene	126	13.440	13.440	(0.957)	2005658	1000.00	890
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	2147044	1000.00	930
87 tert-Butyl Benzene	119	13.671	13.671	(0.974)	7487751	1000.00	920
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	7794083	1000.00	910
89 Pentachloroethane	167	13.745	13.745	(0.979)	1131052	1000.00	1000
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	10052574	1000.00	910
91 p-Isopropyl Toluene	119	13.909	13.909	(0.991)	8384408	1000.00	920
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	3873804	1000.00	930
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	3841677	1000.00	910
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	8050539	1000.00	890
95 1,2-Dichlorobenzene	146	14.372	14.372	(1.024)	3311757	1000.00	940
96 1,2-Dibromo-3-Chloropropane	75	15.007	15.007	(1.069)	211930	1000.00	950
97 1,2,4-Trichlorobenzene	180	15.829	15.829	(1.128)	2450937	1000.00	950
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	1471884	1000.00	940
99 Naphthalene	128	16.128	16.128	(1.149)	3869921	1000.00	1000(A)
100 1,2,3-Trichlorobenzene	180	16.415	16.415	(1.169)	1983190	1000.00	970
M 101 1,2-Dichloroethene (total)	96				3380587	2000.00	1800
M 102 Xylene (total)	106				9050696	1000.00	2500

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 92253 Manually integrated



File name: /chem/5975hpms91.i/DG110317A91.b/1C17006-CAL691.d
Client ID: VSTD040
Instrument ID: 5975hpms91.i
Injection Date and Time: 17-MAR-2011 16:52
Retention Time: 10.99
Operator ID: JAO

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 9 (5975hpms91)

DATE 3/17/11 ; INITIAL TIME OF TUNE 1353 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 0153
METHOD 8260B SOM01.2 (Circle one) or Other: 25mL

PREVENTIVE MAINTENANCE retuned 1032305

		FILE NAME		SH	Val	DATE	TIME	CLIENT ID	SDG#	INJ VOL	DF	CHEMIST	COMMENTS/SUSPECT DISPOSITION
1		IC17006-TUN1 91		—	—	3/17/11	1353	BFB	—	2uL	—	JAO	LCD.ESCD
2		-CAL2		—	—	/ /	1427	VSTD001	—	25mL	—		
3		-CAL1		—	—	/ /	1456	VSTD0.5	—		—		
4		-CAL3		—	—	/ /	1525	VSTD005	—		—		
5		-CAL4		—	—	/ /	1554	VSTD010	—		—		
6	JAO	-CAL5		—	—	/ /	1623	VSTD020	—		—		
7	JAO 3-17-11	~~-CAL6~~ ~~-IBL1~~	SS	—	—	/ /	1652	VSTD040	—		—		
8		1031732-BLK1		—	—	/ /	1804	VBLKKR	VARIOUS		—		
9		-BS1	SF	—	—	/ /	1845	VKRLCS			—		DC582
10		-BS1R		—	—	/ /	1914	VKRLCS			—		
11		-BS1R2		—	—	/ /	1943	VKRLCS			—		DC582
12		IC17006-IBL1	CS	—	—	/ /	1735	VIBLKAA	—	25mL	—		ran lost weeks line # 788
13		1103030-02		1	B	/ /	2025	05MW17I-GW-09	1103030	15mL	1.67		
14		-03		1	B	/ /	2054	05MW16S-GW-09		20mL	1.25		
15		-04		1	B	/ /	2123	05MW01SI-GW-09		25mL	—		
16		-05	SH DW	1	B	/ /	2152	05GW-DUP01-09		12.5mL	2		
17		-06		1 3-17-11	B	/ /	2221	TB-20110308-01		25mL	—		
18	X	-07	SH	1	B	/ /	2250	05TW2-GW-09		20mL	1.25		
19		-08	SH	1	B	/ /	2315	05TW1-GW-09		7.5mL	3.33		
20		-09		1	B	/ /	2348	05TW4-GW1-09		20mL	1.25		
21		-10	SH	1	B	3/18/11	0016	05MW19S-GW-09		11mL	2.27		
22		-11		1	B	/ /	0045	TB-20110309-01		25mL	—		
23		-14		1	B	/ /	0114	05MW01S-GW-09		1.5mL	16.67	B	
24		-15	SL	1	B	/ /	0143	05MW10SI-GW-09		11mL	2.27		

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: 67862
Internal Standard Lot No.: 67883

Calibration Group Code / Lot No.: DC583
Surrogate Lot No.: 67860

REVIEWED BY: B

Date 3-18-11

b. Continuing Calibration Data

(CONTINUING CALIBRATION CHECK)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibrations from the same instrument are used, they shall be in chronological order.

(1) RICs and Quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

CONTINUING CALIBRATION CHECK

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Instrument ID: 5975hpms91 Calibration: 1032305

Lab File ID: 1C18005-CCV191.d Calibration Date: 03/17/11 14:27

Sequence: 1C18005 Injection Date: 03/18/11

Lab Sample ID: 1C18005-CCV1 Injection Time: 16:37

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
Dichlorodifluoromethane	Avg	5.000	5.600	0.396094	0.4354985	0.001	9.9	90
Chloromethane	Avg	5.000	5.200	0.2286678	0.2343701	0.1	2.5	90
Vinyl chloride	Avg	5.000	5.200	0.1972757	0.2074944	0.001	5.2	20
Bromomethane	Avg	5.000	5.600	0.1061334	0.1187872	0.001	11.9	90
Chloroethane	Avg	5.000	4.800	0.1053331	0.103413	0.001	-1.8	90
Trichlorofluoromethane	Avg	5.000	5.600	0.2847834	0.3102532	0.001	8.9	90
Acrolein	Avg	50.00	52.00	6.124132E-03	6.398425E-03	0.001	4.5	90
1,1-Dichloroethene	Avg	5.000	5.200	0.1258284	0.1352441	0.001	7.5	20
Acetone	Avg	25.00	26.80	1.463756E-02	1.564321E-02	0.001	6.9	90
Iodomethane	Avg	5.000	3.160	0.1402449	8.908043E-02	0.001	-36.5	90
Carbon disulfide	Avg	5.000	5.600	0.4213371	0.4634456	0.001	10.0	90
3-Chloropropene	Avg	5.000	5.200	0.1835777	0.1906515	0.001	3.9	90
Acetonitrile	Avg	5.000	5.200	0.2311562	0.2369528	0.001	2.5	90
Methylene chloride	Lin	5.000	5.600	0.1305769	0.1310067	0.001	12.0	90
Acrylonitrile	Avg	50.00	56.00	4.002679E-02	4.423668E-02	0.001	10.5	90
trans-1,2-Dichloroethene	Avg	5.000	5.600	0.3047921	0.330008	0.001	8.3	90
1,1-Dichloroethane	Avg	5.000	5.600	0.5587444	0.6110681	0.1	9.4	90
Chloroprene	Avg	5.000	5.200	0.5242108	0.5504967	0.001	5.0	90
Vinyl acetate	Avg	10.00	11.20	0.4942138	0.5530156	0.001	11.9	90
cis-1,2-Dichloroethene	Avg	5.000	5.200	0.3107697	0.3335755	0.001	7.3	90
2,2-Dichloropropane	Avg	5.000	5.600	0.4894846	0.5598498	0.001	14.4	90
Propionitrile	Avg	250.0	280.0	1.473274E-02	1.654914E-02	0.001	12.3	90
2-Butanone	Avg	25.00	25.60	5.222448E-02	5.308469E-02	0.001	1.6	90
Methacrylonitrile	Avg	50.00	56.00	7.814511E-02	8.940412E-02	0.001	14.4	90
Bromochloromethane	Avg	5.000	5.200	0.1105187	0.1190241	0.001	7.7	90
Chloroform	Avg	5.000	5.200	0.569047	0.6062164	0.001	6.5	20
1,1,1-Trichloroethane	Avg	5.000	5.200	0.5425483	0.5732898	0.001	5.7	90

CONTINUING CALIBRATION CHECK

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Instrument ID: 5975hpms91 Calibration: 1032305

Lab File ID: 1C18005-CCV191.d Calibration Date: 03/17/11 14:27

Sequence: 1C18005 Injection Date: 03/18/11

Lab Sample ID: 1C18005-CCV1 Injection Time: 16:37

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
1,1-Dichloropropene	Avg	5.000	5.600	0.4455389	0.4928302	0.001	10.6	90
Carbon tetrachloride	Avg	5.000	5.200	0.4576787	0.493412	0.001	7.8	90
1,2-Dichloroethane	Avg	5.000	5.600	0.3419283	0.3722053	0.001	8.9	90
Isobutyl alcohol	Avg	250.0	272.0	4.336397E-03	4.700201E-03	0.001	8.4	90
Benzene	Avg	5.000	5.200	1.273407	1.364288	0.001	7.1	90
Trichloroethene	Avg	5.000	5.200	0.3210576	0.3297469	0.001	2.7	90
1,2-Dichloropropane	Avg	5.000	5.600	0.2803339	0.3069964	0.001	9.5	20
Dibromomethane	Avg	5.000	5.600	0.1106087	0.120307	0.001	8.8	90
Methyl Methacrylate	Avg	50.00	60.00	0.1093287	0.1308364	0.001	19.7	90
Bromodichloromethane	Avg	5.000	5.200	0.3778381	0.4005583	0.001	6.0	90
cis-1,3-Dichloropropene	Avg	5.000	5.200	0.4138732	0.4384899	0.001	5.9	90
4-Methyl-2-pentanone	Avg	25.00	26.80	0.178846	0.1915477	0.001	7.1	90
Toluene	Avg	5.000	5.200	1.186199	1.254005	0.001	5.7	20
trans-1,3-Dichloropropene	Avg	5.000	5.600	0.5002727	0.5473191	0.001	9.4	90
1,1,2-Trichloroethane	Avg	5.000	5.200	0.2486648	0.258836	0.001	4.1	90
Ethyl Methacrylate	Avg	50.00	56.00	0.3108189	0.3597621	0.001	15.7	90
1,3-Dichloropropane	Avg	5.000	5.600	0.4463409	0.4884913	0.001	9.4	90
Tetrachloroethene	Avg	5.000	3.960	0.5082608	0.4022812	0.001	-20.9	90
2-Hexanone	Avg	25.00	26.80	0.1231989	0.1314347	0.001	6.7	90
Dibromochloromethane	Avg	5.000	5.200	0.2932325	0.2996656	0.001	2.2	90
Chlorobenzene	Avg	5.000	5.200	1.224857	1.281775	0.3	4.6	90
1,1,1,2-Tetrachloroethane	Avg	5.000	5.200	0.3994962	0.4148312	0.001	3.8	90
Ethylbenzene	Avg	5.000	5.200	0.7121375	0.764826	0.001	7.4	20
m,p-Xylene	Avg	10.00	10.80	0.8720287	0.9467106	0.001	8.6	90
o-Xylene	Avg	5.000	5.600	0.8317787	0.9023331	0.001	8.5	90
Styrene	Avg	5.000	5.200	1.311845	1.407584	0.001	7.3	90
Bromoform	Avg	5.000	5.200	0.1462252	0.1466287	0.1	0.3	90

CONTINUING CALIBRATION CHECK

SW 8260B

Client: DRAPER SDG: 1103087

Project: WATAUGA COUNTY LANDFILL 6520-39

Instrument ID: 5975hpms91 Calibration: 1032305

Lab File ID: 1C18005-CCV191.d Calibration Date: 03/17/11 14:27

Sequence: 1C18005 Injection Date: 03/18/11

Lab Sample ID: 1C18005-CCV1 Injection Time: 16:37

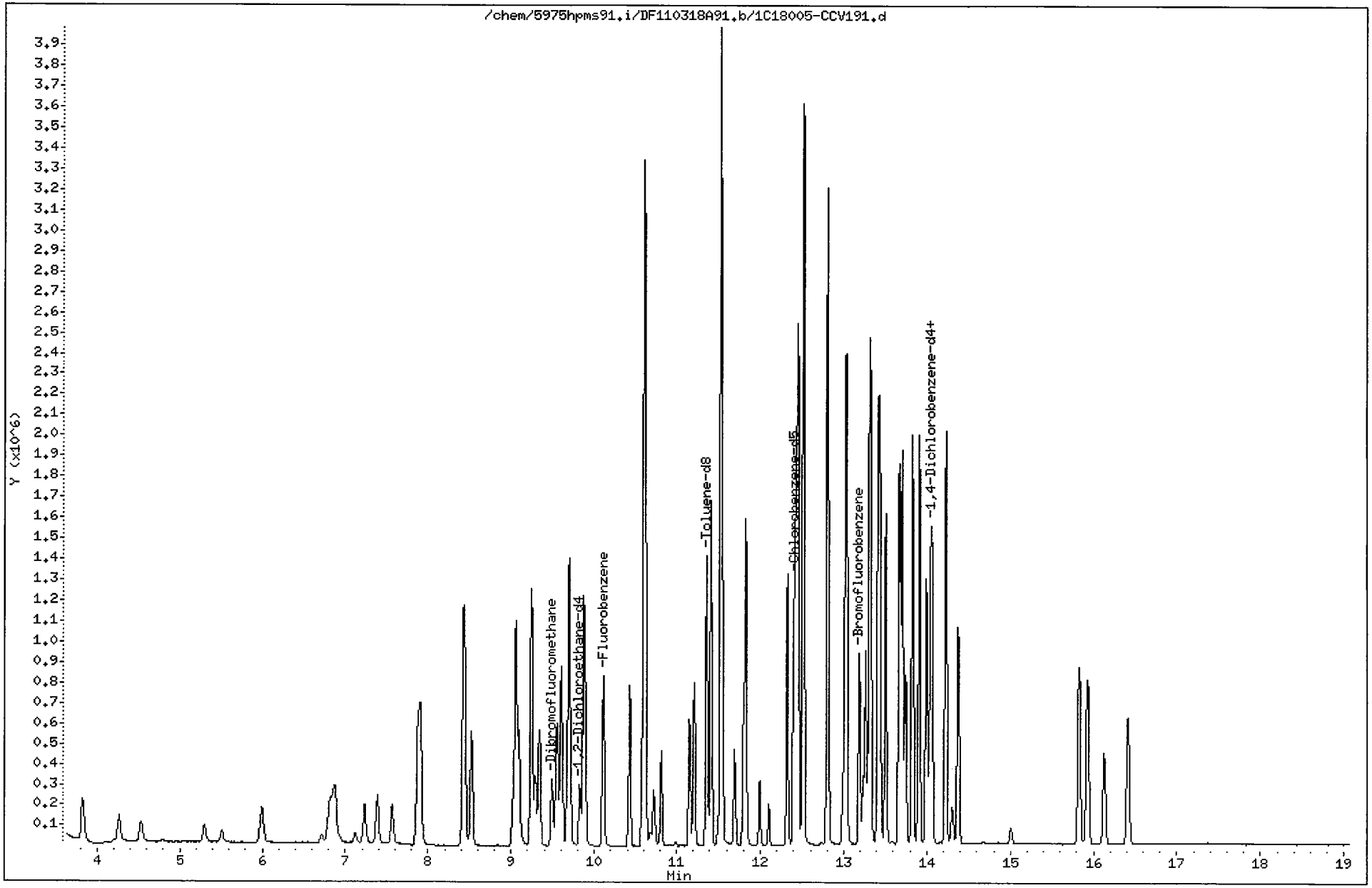
		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT
1,1,2,2-Tetrachloroethane	Avg	5.000	5.200	0.5535952	0.5793241	0.3	4.6	90
1,2,3-Trichloropropane	Avg	5.000	5.600	7.990804E-02	8.654315E-02	0.001	8.3	90
trans-1,4-Dichloro-2-butene	Avg	20.00	22.00	8.581148E-02	9.507845E-02	0.001	10.8	90
1,3-Dichlorobenzene	Avg	5.000	5.200	1.972461	2.042761	0.001	3.6	90
1,4-Dichlorobenzene	Avg	5.000	5.200	1.992401	2.0175	0.001	1.3	90
1,2-Dichlorobenzene	Avg	5.000	5.200	1.660502	1.700115	0.001	2.4	90
1,2,4-Trichlorobenzene	Avg	5.000	5.200	1.214134	1.271262	0.001	4.7	90
Hexachlorobutadiene	Avg	5.000	5.200	0.7357543	0.7544531	0.001	2.5	90
Naphthalene	Avg	5.000	4.800	1.801762	1.766607	0.001	-2.0	90
Xylenes (total)	Avg	15.00	16.40	0.858612	0.9319181	0.001	8.5	90
Dibromofluoromethane	Avg	5.000	5.200	0.2601003	0.2737647	0.001	5.3	90
1,2-Dichloroethane-d4	Avg	5.000	5.200	0.2745298	0.2904714	0.001	5.8	90
Toluene-d8	Avg	5.000	5.200	1.608279	1.629605	0.001	1.3	90
Bromofluorobenzene	Avg	5.000	4.800	1.265807	1.233764	0.001	-2.5	90

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Date : 18-MAR-2011 16:37
Client ID: VSTD005
Sample Info: 1C18005-CCV1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Report Date: 22-Mar-2011 11:57

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Lab Smp Id: 1C18005-CCV1 Client Smp ID: VSTD005
Inj Date : 18-MAR-2011 16:37
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1C18005-CCV1:JAO
Misc Info : VSTD005
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: DC.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	704689	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	510439	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.043	14.043	(1.000)	262064	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	192919	125.000	130
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	204692	125.000	130
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	831814	125.000	130
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	323325	125.000	120
8 Dichlorodifluoromethane	85	3.826	3.826	(0.378)	306891	125.000	140
9 Chloromethane	50	4.265	4.265	(0.422)	165158	125.000	130
10 Vinyl Chloride	62	4.527	4.527	(0.448)	146219	125.000	130
11 Bromomethane	94	5.301	5.301	(0.524)	83708	125.000	140
12 Chloroethane	64	5.515	5.515	(0.545)	72874	125.000	120
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	218632	125.000	140
14 Acrolein	56	6.709	6.709	(0.664)	45089	1250.00	1300
15 1,1,1-trichloro-2,2,2-trifluo	117	6.801	6.801	(0.673)	59551	125.000	140
16 1,1,2-trichloro-1,2,2-trifluo	85	6.844	6.844	(0.677)	65354	125.000	140

pmb 3.22.11

Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	95305	125.000	130
18 Acetone	43	6.929	6.929	(0.685)	55118	625.000	670
19 Iodomethane	142	7.118	7.118	(0.704)	62774	125.000	79
20 Carbon disulfide	76	7.228	7.228	(0.715)	326585	125.000	140
22 3-Chloropropene	39	7.386	7.386	(0.730)	134350	125.000	130
23 Acetonitrile	41	7.386	7.386	(0.730)	166978	125.000	130
24 Methyl acetate	43	7.380	7.380	(0.730)	30434	125.000	130
25 Methylene Chloride	84	7.563	7.563	(0.748)	92319	125.000	140
26 Acrylonitrile	53	7.874	7.874	(0.779)	311731	1250.00	1400
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	232553	125.000	140
27 Methyl-tert-butyl ether	73	7.880	7.880	(0.779)	400472	125.000	130
30 Isopropyl ether	45	8.441	8.441	(0.835)	658742	125.000	140
31 Vinyl acetate	43	8.423	8.423	(0.833)	779408	250.000	280
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	430613	125.000	140
33 Chloroprene	53	8.526	8.526	(0.843)	387929	125.000	130
34 2-butanone	43	9.020	9.020	(0.892)	187041	625.000	640
35 2,2-Dichloropropane	77	9.050	9.050	(0.895)	394520	125.000	140
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	235067	125.000	130
37 Propionitrile	54	9.093	9.093	(0.899)	583100	6250.00	7000
38 Methacrylonitrile	41	9.246	9.246	(0.914)	630021	1250.00	1400
39 Bromochloromethane	128	9.294	9.294	(0.919)	83875	125.000	130
40 Chloroform	83	9.343	9.343	(0.924)	427194	125.000	130
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	403991	125.000	130
43 Cyclohexane	84	9.605	9.605	(0.950)	353107	125.000	130
44 1,1-dichloropropene	75	9.697	9.697	(0.959)	347292	125.000	140
45 Isobutyl alcohol	43	9.678	9.678	(0.957)	165609	6250.00	6800
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	347702	125.000	130
47 Benzene	78	9.873	9.873	(0.976)	961399	125.000	130
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	262289	125.000	140
49 Trichloroethene	130	10.428	10.428	(1.031)	232369	125.000	130
50 Methylcyclohexane	83	10.593	10.593	(1.048)	462059	125.000	150
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	216337	125.000	140
52 Methylmethacrylate	69	10.611	10.611	(1.049)	921990	1250.00	1500
53 1,4-dioxane	88	10.684	10.684	(1.057)	41215	6250.00	6400
54 Dibromomethane	174	10.727	10.727	(1.061)	84779	125.000	140
55 Bromodichloromethane	83	10.818	10.818	(1.070)	282269	125.000	130
56 2-chloroethyl vinyl ether	63	10.989	10.989	(1.087)	6713	250.000	200(M)
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.103)	308999	125.000	130
58 4-Methyl-2-pentanone	43	11.209	11.209	(0.904)	488867	625.000	670
59 Toluene	92	11.410	11.410	(0.920)	640093	125.000	130
60 Ethylmethacrylate	69	11.526	11.526	(0.929)	1836366	1250.00	1400
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.931)	279373	125.000	140
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	132120	125.000	130
63 2-hexanone	43	11.800	11.800	(0.951)	335447	625.000	670
64 1,3-Dichloropropane	76	11.824	11.824	(0.953)	249345	125.000	140
65 Tetrachloroethene	164	11.824	11.824	(0.953)	205340	125.000	99
66 Dibromochloromethane	129	11.995	11.995	(0.967)	152961	125.000	130

MJB 3-22-11

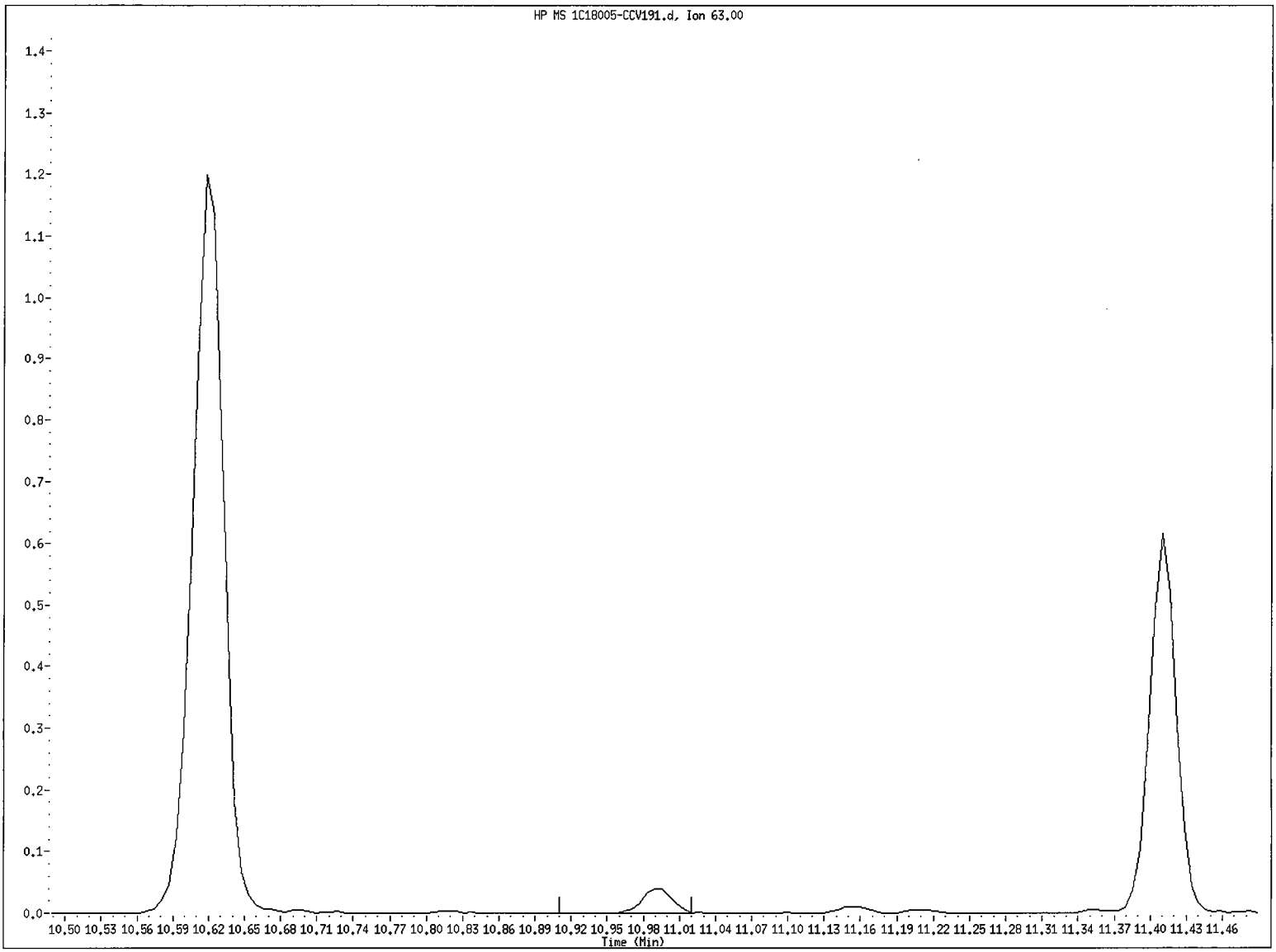
Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
67 1,2-Dibromoethane	107	12.105	12.105	(0.976)	119217	125.000	120
68 1-Chlorohexane	55	12.324	12.324	(0.994)	278272	125.000	140
69 Chlorobenzene	112	12.422	12.422	(1.001)	654268	125.000	130
70 Ethylbenzene	106	12.446	12.446	(1.003)	390397	125.000	130
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.004)	211746	125.000	130
72 m,p-Xylene	106	12.513	12.513	(1.009)	966476	250.000	270
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	966476	250.000	270
74 o-Xylene	106	12.800	12.800	(1.032)	460586	125.000	140
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	460586	125.000	140
76 Styrene	104	12.806	12.806	(1.032)	718486	125.000	130
77 Bromoform	173	12.989	12.989	(1.047)	74845	125.000	130
78 Isopropyl Benzene	105	13.415	13.415	(1.082)	1063760	125.000	140
79 1,1,2,2-Tetrachloroethane	83	13.233	13.233	(0.942)	151820	125.000	130
81 1,2,3-Trichloropropane	110	13.294	13.294	(1.072)	44175	125.000	140
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.069)	194127	500.000	550
82 n-Propyl Benzene	91	13.312	13.312	(0.948)	1570760	125.000	130
83 Bromobenzene	156	13.330	13.330	(1.075)	249833	125.000	140
84 1,3,5-Trimethyl Benzene	105	13.415	13.415	(0.955)	1063760	125.000	130
85 2-Chlorotoluene	126	13.440	13.440	(0.957)	285815	125.000	130
86 4-Chlorotoluene	126	13.507	13.507	(0.962)	292306	125.000	130
87 tert-Butyl Benzene	119	13.672	13.672	(0.974)	1033035	125.000	130
88 1,2,4-Trimethyl Benzene	105	13.702	13.702	(0.976)	1091696	125.000	130
89 Pentachloroethane	167	13.745	13.745	(0.979)	152589	125.000	200
90 sec-Butyl Benzene	105	13.830	13.830	(0.985)	1423182	125.000	130
91 p-Isopropyl Toluene	119	13.909	13.909	(0.990)	1174748	125.000	130
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	535334	125.000	130
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.001)	528714	125.000	130
94 n-Butyl Benzene	91	14.226	14.226	(1.013)	1189465	125.000	130
95 1,2-Dichlorobenzene	146	14.373	14.373	(1.023)	445539	125.000	130
96 1,2-Dibromo-3-Chloropropane	75	15.007	15.007	(1.069)	26182	125.000	120
97 1,2,4-Trichlorobenzene	180	15.830	15.830	(1.127)	333152	125.000	130
98 Hexachlorobutadiene	225	15.927	15.927	(1.134)	197715	125.000	130
99 Naphthalene	128	16.128	16.128	(1.148)	462964	125.000	120
100 1,2,3-Trichlorobenzene	180	16.415	16.415	(1.169)	258243	125.000	130
M 101 1,2-Dichloroethene (total)	96				467620	250.000	270
M 102 Xylene (total)	106				1427062	125.000	420

QC Flag Legend

M - Compound response manually integrated.

2-chloroethyl vinyl ether CAS Number 110-75-8 Area = 6713 Manually integrated



File name: /chem/5975hpms91.i/DF110318A91.b/1C18005-CCV191.d
Client ID: VSTD005
Instrument ID: 5975hpms91.i
Injection Date and Time: 18-MAR-2011 16:37
Retention Time: 10.99
Operator ID: JAO

COMPUCHEM a Division of Liberty Analytical Corp

GC/MS VOLATILE RUN LOG

COMPUCHEM LOGBOOK 23 BB 9 (5975hpms91)

DATE 3/18/11

INITIAL TIME OF TUNE 1609 SHIFT/S (A) ✓ (B)____ (C)____

TIME TUNE EXPIRES 0409

METHOD ~~8260B~~ SOM01.2 (Circle one) or Other: 25mL

PREVENTIVE MAINTENANCE

	REJECTED	FILE NAME	REPORTED	pH	Vial	DATE	TIME	Client ID	SDG#	INJ VOL.*	DF+	CHEMIST	COMMENTS (ETC.)/ DISPOSITION
1		1C18005-TUN1	/	–	–	3/18/11	1609	BFB	–	2ml	–	JAO	LED=5CD
2		-CCV1	/	–	–	/ /	1637	VSTD005	–	25mL	–		
3	/	-CCVIR	RU	–	–	/ /	1809	VSTD005 ~~VBLKKT~~	–		–		
4		1031819-BLK1	/	–	–	/ /	1853	B 3-18-11 ~~VKT~~ VBLKKT	VARIONS		–		
5		-BS1	/	–	–	/ /	1932	VKTLCS			–		
6		1103087-01	/	1	A	/ /	2026	MW-3	1103087		–	B	
7	/	02	D1	1	A	/ /	2055	-2			–		1,1,1 TCE 3600
8		03	/	1	A	/ /	2124	-8			–		
9		04	/	1	A	/ /	2152	-9			–		
10		05	/	1	A	/ /	2221	-12			–		
11		06	/	1	A	/ /	2250	-17			–		
12		07	/	1	A	/ /	2319	TRIPBLANK			–		
13		02D	/	1	B	/ /	2348	MW-2DL		4mL	6.25		
14		1031819-MS1	/	1	B	3/19/11	0017	-3MS		25mL	–		
15		MSD1	/	1	C	/ /	0046	-3MSD			–		
16						/ /							
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							B 3-19-11
23						/ /							
24						/ /							

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: 67862

Internal Standard Lot No.: 67883

Calibration Group Code / Lot No.: DC583

Surrogate Lot No.: 67860

REVIEWED BY: B

Date 3-19-11

4. Raw QC Data

a. BFB Data

b. Blank Data

c. Laboratory Control Sample Data

d. Matrix Spike Data

a. BFB Data

For each 12 hour period, per instrument utilized, include:

- Bar Graph Spectrum and Tabulated Relative Abundances

- Mass Listing

- RIC

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-TUN191.d

Date : 17-MAR-2011 13:53

Client ID: BFB

Instrument: 5975hpms91.i

Sample Info: 1C17006-TUN1:JAO

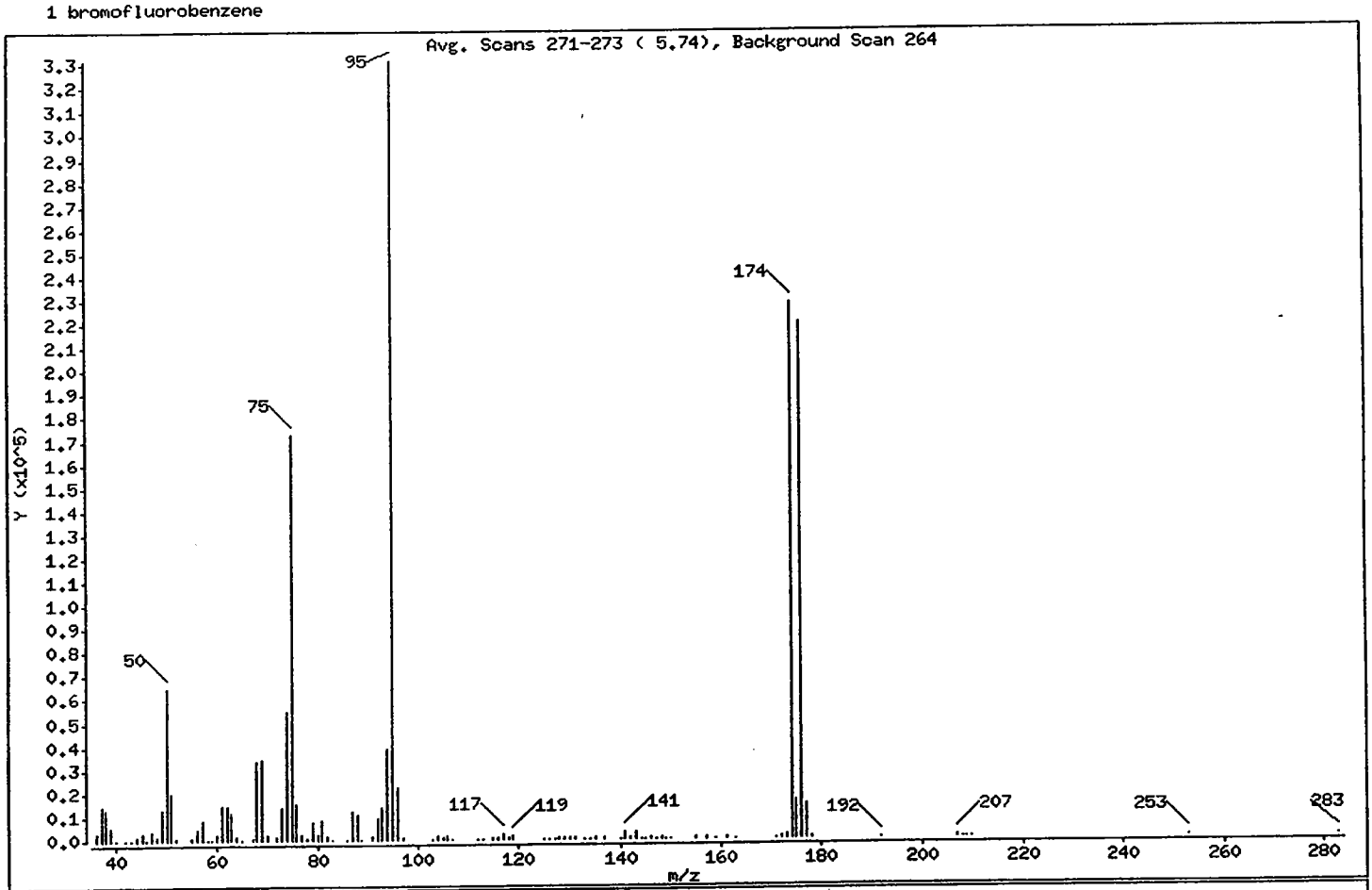
Volume Injected (uL): 2.0

Operator: JAO

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.70
75	30.00 - 60.00% of mass 95	52.09
96	5.00 - 9.00% of mass 95	6.62
173	Less than 2.00% of mass 174	0.57 (0.83)
174	Greater than 50.00% of mass 95	68.93
175	5.00 - 9.00% of mass 174	4.84 (7.02)
176	95.00 - 101.00% of mass 174	66.37 (96.29)
177	5.00 - 9.00% of mass 176	4.38 (6.60)

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-TUN191.d

Date : 17-MAR-2011 13:53

Client ID: BFB | Instrument: 5975hpms91.i

Sample Info: 1C17006-TUN1:JAO

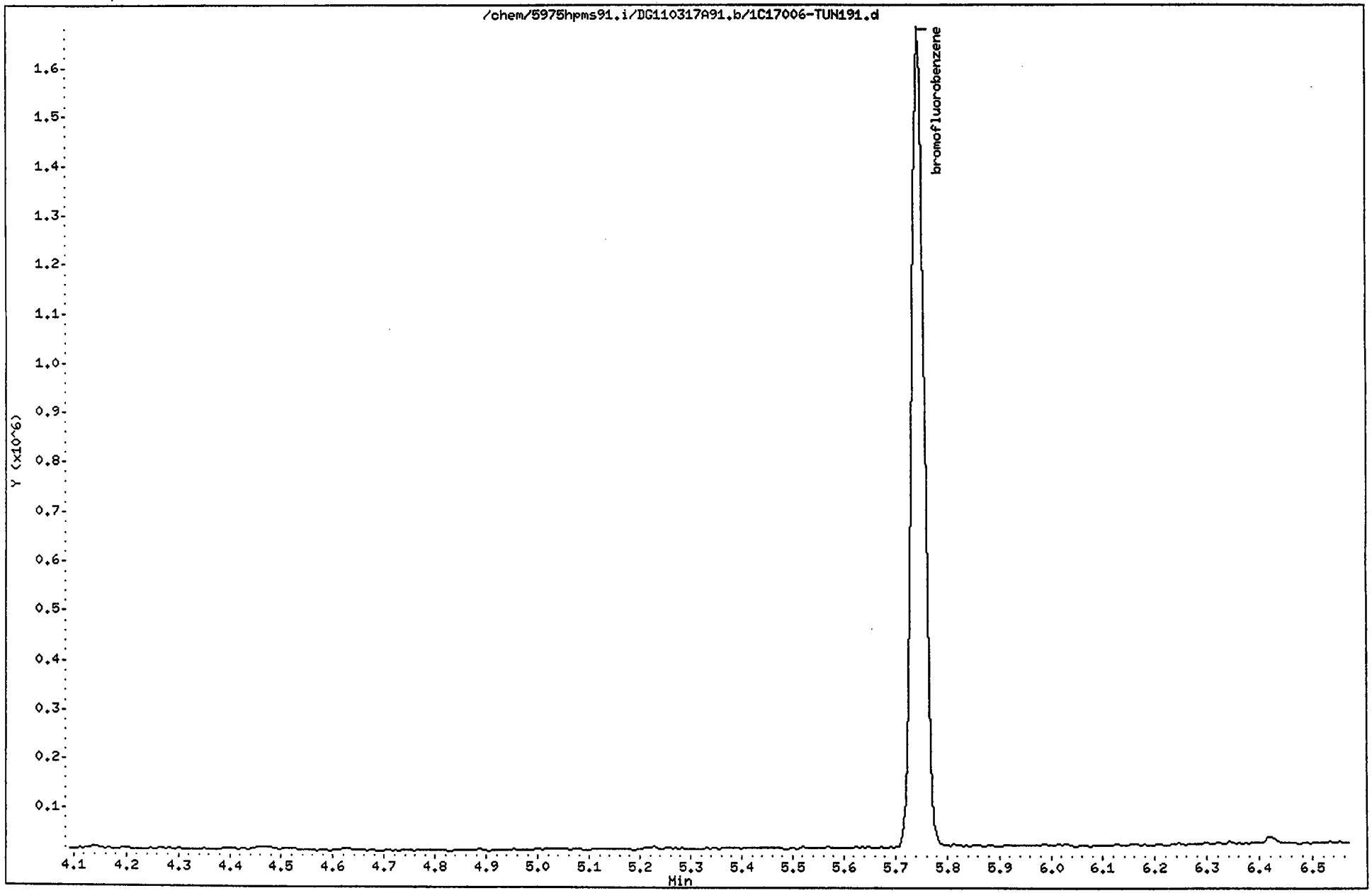
Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Data File: 1C17006-TUN191.d
Spectrum: Avg. Scans 271-273 (5.74), Background Scan 264
Location of Maximum: 95.00
Number of points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2695	68.00	33576	105.00	572	147.00	81
37.00	14835	69.00	34040	106.00	1249	148.00	742
38.00	13292	70.00	2526	107.00	371	149.00	233
39.00	5121	72.00	1543	112.00	191	150.00	202
40.00	8	73.00	13910	113.00	306	155.00	630
42.00	105	74.00	55272	115.00	549	157.00	580
43.00	222	75.00	172736	116.00	1045	159.00	315
44.00	1465	76.00	15203	117.00	1977	161.00	490
45.00	3231	77.00	1970	118.00	1097	163.00	268
46.00	188	78.00	880	119.00	1724	171.00	119
47.00	3550	79.00	7996	125.00	87	172.00	545
48.00	1726	80.00	2233	126.00	101	173.00	1894
49.00	13065	81.00	8122	127.00	142	174.00	228608
50.00	65320	82.00	1588	128.00	1123	175.00	16039
51.00	20096	83.00	85	129.00	511	176.00	220096
52.00	863	86.00	374	130.00	1040	177.00	14526
55.00	835	87.00	11847	131.00	568	178.00	522
56.00	4647	88.00	10988	133.00	169	192.00	262
57.00	8701	89.00	164	134.00	94	207.00	487
58.00	358	91.00	1162	135.00	771	208.00	368
59.00	103	92.00	8906	137.00	460	209.00	90
60.00	2488	93.00	13400	140.00	133	210.00	90
61.00	14556	94.00	38976	141.00	3279	253.00	48
62.00	14324	95.00	331648	142.00	389	283.00	169
63.00	11595	96.00	21936	143.00	3187		
64.00	1243	97.00	755	144.00	87		
65.00	123	103.00	80	145.00	323		
67.00	844	104.00	1432	146.00	495		

Data File: /chem/5975hpms91.i/DG110317A91.b/1C17006-TUN191.d
Date : 17-MAR-2011 13:53
Client ID: BFB
Instrument: 5975hpms91.i
Sample Info: 1C17006-TUN1;JAO
Volume Injected (uL): 2.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-TUN191.d

Date : 18-MAR-2011 16:09

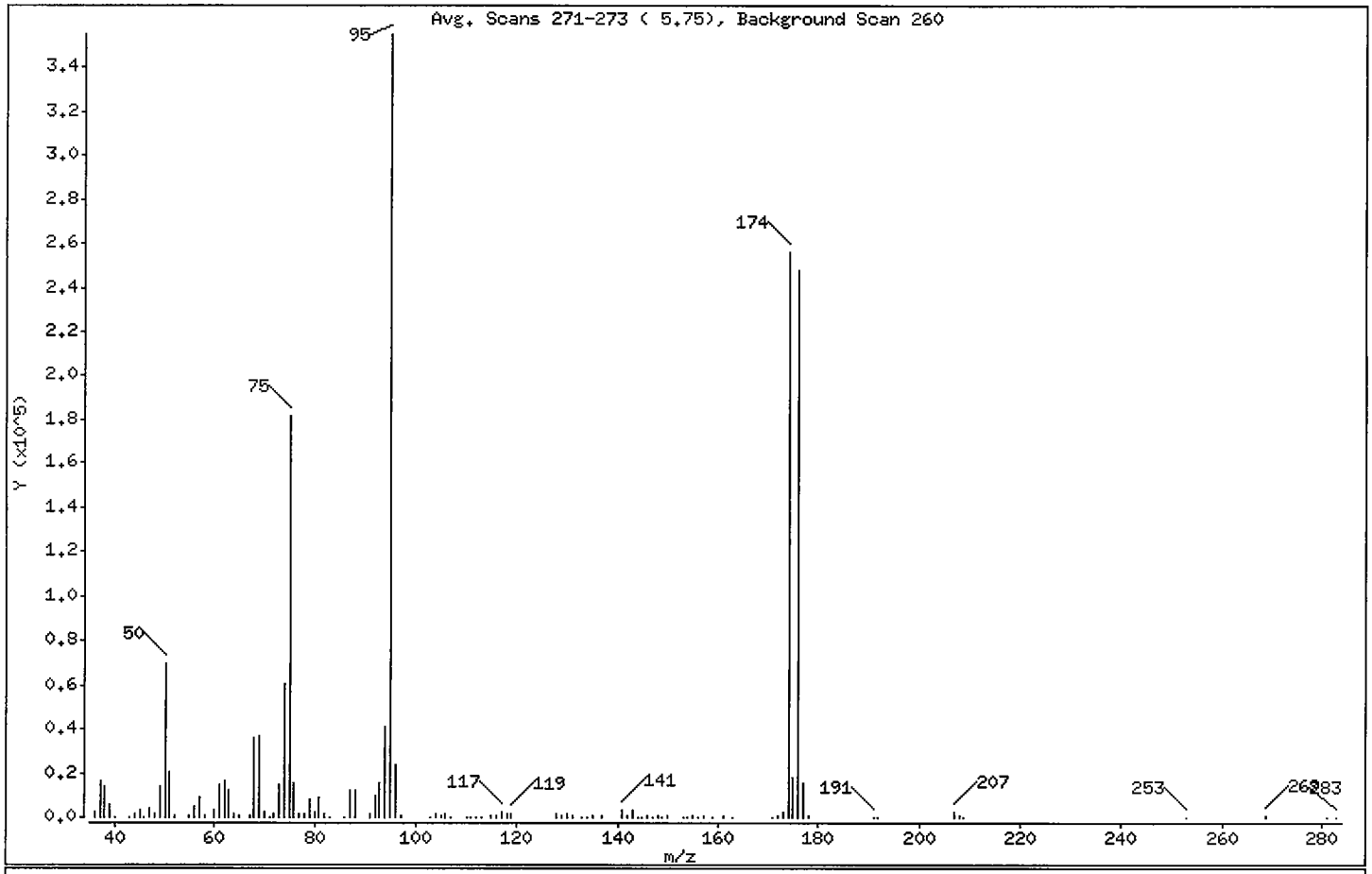
Client ID: BFB | Instrument: 5975hpms91.i

Sample Info: 1C18005-TUN1:JAO

Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.53
75	30.00 - 60.00% of mass 95	51.18
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.61 (0.84)
174	Greater than 50.00% of mass 95	72.24
175	5.00 - 9.00% of mass 174	5.12 (7.09)
176	95.00 - 101.00% of mass 174	69.82 (96.66)
177	5.00 - 9.00% of mass 176	4.47 (6.40)

Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-TUN191.d

Date : 18-MAR-2011 16:09

Client ID: BFB | Instrument: 5975hpms91.i

Sample Info: 1C18005-TUN1:JAO

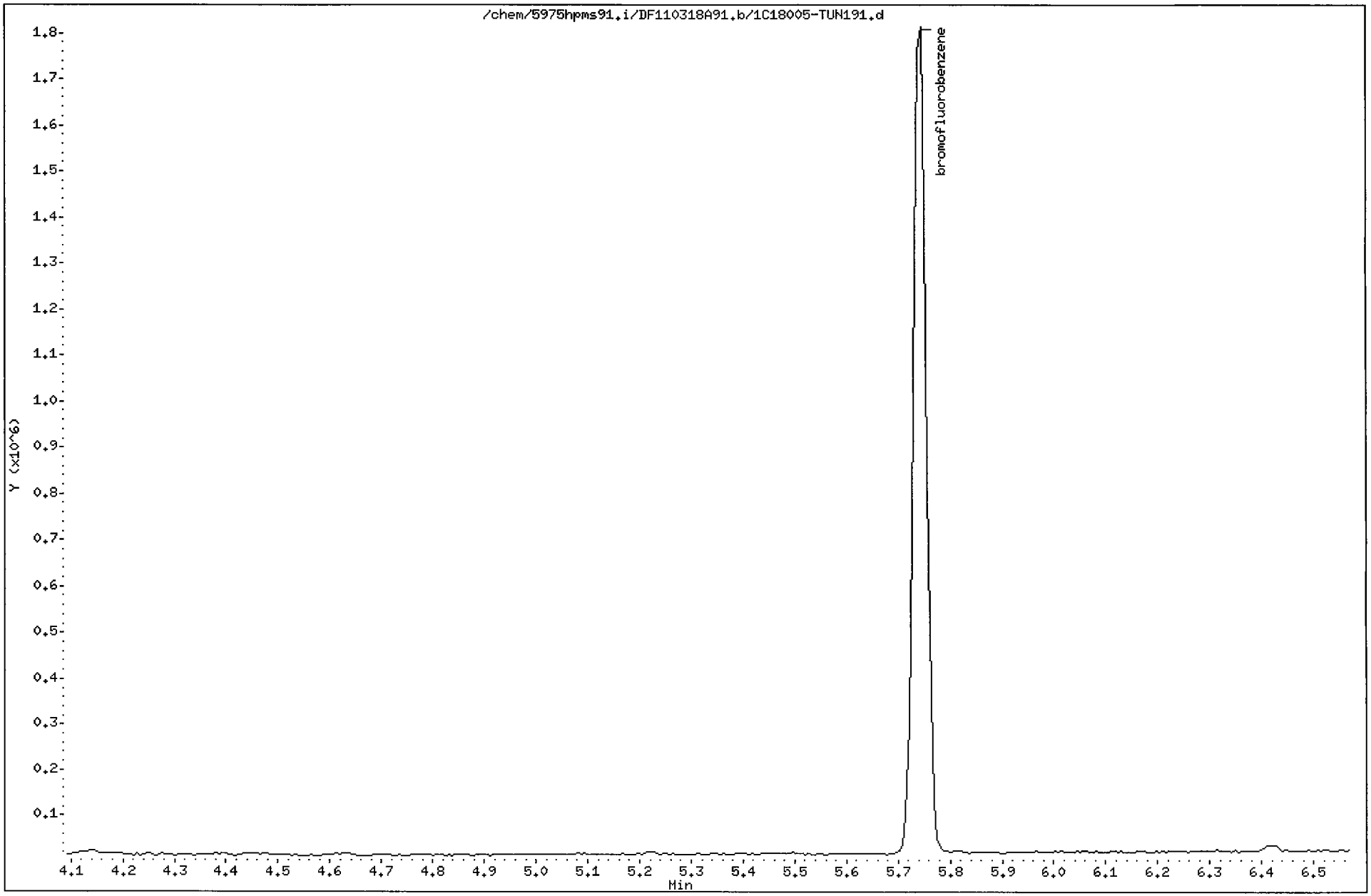
Volume Injected (uL): 2.0 | Operator: JAO

Column phase: SPB-624 | Column diameter: 0.32

Data File: 1C18005-TUN191.d
Spectrum: Avg. Scans 271-273 (5.75), Background Scan 260
Location of Maximum: 95.00
Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2573	70.00	2844	107.00	350	153.00	105
37.00	16059	71.00	98	110.00	90	154.00	86
38.00	13742	72.00	1917	111.00	364	155.00	693
39.00	5368	73.00	14452	112.00	118	156.00	188
40.00	86	74.00	60824	113.00	241	157.00	462
43.00	180	75.00	181632	115.00	424	159.00	374
44.00	1844	76.00	15289	116.00	1177	161.00	493
45.00	3158	77.00	2036	117.00	2195	163.00	202
46.00	188	78.00	1347	118.00	1335	171.00	233
47.00	3718	79.00	8378	119.00	1982	172.00	834
48.00	1774	80.00	2516	128.00	1228	173.00	2165
49.00	13880	81.00	8723	129.00	568	174.00	256384
50.00	69328	82.00	1778	130.00	1253	175.00	18176
51.00	20368	83.00	221	131.00	559	176.00	247808
52.00	1082	86.00	307	133.00	327	177.00	15861
55.00	1004	87.00	12385	134.00	101	178.00	449
56.00	4900	88.00	12455	135.00	660	191.00	308
57.00	9324	91.00	1420	137.00	591	192.00	116
58.00	487	92.00	10172	141.00	3596	207.00	2631
60.00	2973	93.00	15419	142.00	412	208.00	487
61.00	14958	94.00	40608	143.00	3596	209.00	241
62.00	16046	95.00	354944	144.00	88	253.00	86
63.00	12268	96.00	24040	145.00	285	269.00	413
64.00	1486	97.00	807	146.00	444	281.00	136
65.00	491	103.00	48	147.00	155	283.00	83
67.00	886	104.00	1482	148.00	737		
68.00	36104	105.00	536	149.00	375		
69.00	36704	106.00	1366	150.00	439		

Data File: /chem/5975hpms91.i/DF110318A91.b/1C18005-TUN191.d
Date : 18-MAR-2011 16:09
Client ID: BFB
Instrument: 5975hpms91.i
Sample Info: 1C18005-TUN1:JAO
Volume Injected (uL): 2.0
Operator: JAO
Column phase: SPB-624
Column diameter: 0.32



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (ANALYSIS DATA SHEET)
- RIC and Quantitation report.
- Target compound spectra with lab-generated standard spectra.
- Quantitation/Calculation of TIC concentrations.
- GC/MS library search spectra for TICs.

ANALYSIS DATA SHEET

SW 8260B

VBLKKT

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BLK191.d | QC Type: Blank

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BLK1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 18:53

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane		0.030	0.50	U
74-87-3	Chloromethane		0.11	0.50	U
75-01-4	Vinyl chloride		0.070	0.50	U
74-83-9	Bromomethane		0.11	0.50	U
75-00-3	Chloroethane		0.20	0.50	U
75-69-4	Trichlorofluoromethane		0.060	0.50	U
107-02-8	Acrolein		1.0	5.0	U
75-35-4	1,1-Dichloroethene		0.040	0.50	U
67-64-1	Acetone		0.44	2.5	U
74-88-4	Iodomethane		0.030	0.50	U
75-15-0	Carbon disulfide		0.020	0.50	U
107-05-1	3-Chloropropene		0.050	0.50	U
75-05-8	Acetonitrile		0.030	0.50	U
75-09-2	Methylene chloride		0.020	0.50	U
107-13-1	Acrylonitrile		0.36	5.0	U
156-60-5	trans-1,2-Dichloroethene		0.050	0.50	U
75-34-3	1,1-Dichloroethane		0.020	0.50	U
126-99-8	Chloroprene		0.020	0.50	U
108-05-4	Vinyl acetate		0.060	1.0	U
156-59-2	cis-1,2-Dichloroethene		0.030	0.50	U
594-20-7	2,2-Dichloropropane		0.030	0.50	U
107-12-0	Propionitrile		1.4	25	U
78-93-3	2-Butanone		0.28	2.5	U
126-98-7	Methacrylonitrile		0.39	5.0	U
74-97-5	Bromochloromethane		0.040	0.50	U
67-66-3	Chloroform		0.030	0.50	U
71-55-6	1,1,1-Trichloroethane		0.020	0.50	U
563-58-6	1,1-Dichloropropene		0.030	0.50	U
56-23-5	Carbon tetrachloride		0.030	0.50	U
107-06-2	1,2-Dichloroethane		0.030	0.50	U
78-83-1	Isobutyl alcohol		5.9	25	U
71-43-2	Benzene		0.030	0.50	U
79-01-6	Trichloroethene		0.030	0.50	U
78-87-5	1,2-Dichloropropane		0.12	0.50	U
74-95-3	Dibromomethane		0.030	0.50	U
80-62-6	Methyl Methacrylate		0.56	5.0	U
75-27-4	Bromodichloromethane		0.030	0.50	U
10061-01-5	cis-1,3-Dichloropropene		0.040	0.50	U

ANALYSIS DATA SHEET

SW 8260B

VBLKKT

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BLK191.d | QC Type: Blank

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BLK1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 18:53

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-10-1	4-Methyl-2-pentanone		0.42	2.5	U
108-88-3	Toluene		0.030	0.50	U
10061-02-6	trans-1,3-Dichloropropene		0.050	0.50	U
79-00-5	1,1,2-Trichloroethane		0.040	0.50	U
97-63-2	Ethyl Methacrylate		0.41	5.0	U
142-28-9	1,3-Dichloropropane		0.030	0.50	U
127-18-4	Tetrachloroethene		0.060	0.50	U
591-78-6	2-Hexanone		0.51	2.5	U
124-48-1	Dibromochloromethane		0.040	0.50	U
108-90-7	Chlorobenzene		0.020	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane		0.020	0.50	U
100-41-4	Ethylbenzene		0.040	0.50	U
179601-23-1	m,p-Xylene		0.080	1.0	U
95-47-6	o-Xylene		0.030	0.50	U
100-42-5	Styrene		0.020	0.50	U
75-25-2	Bromoform		0.030	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane		0.050	0.50	U
96-18-4	1,2,3-Trichloropropane		0.090	0.50	U
110-57-6	trans-1,4-Dichloro-2-butene		0.33	2.0	U
541-73-1	1,3-Dichlorobenzene		0.040	0.50	U
106-46-7	1,4-Dichlorobenzene		0.030	0.50	U
95-50-1	1,2-Dichlorobenzene		0.030	0.50	U
120-82-1	1,2,4-Trichlorobenzene		0.060	0.50	U
87-68-3	Hexachlorobutadiene		0.030	0.50	U
91-20-3	Naphthalene		0.15	0.50	U
1330-20-7	Xylenes (total)		0.030	0.50	U

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.151	103	65 - 150	
1,2-Dichloroethane-d4	5.000	5.122	102	59 - 150	
Toluene-d8	5.000	5.046	101	61 - 145	
Bromofluorobenzene	5.000	4.896	98	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories

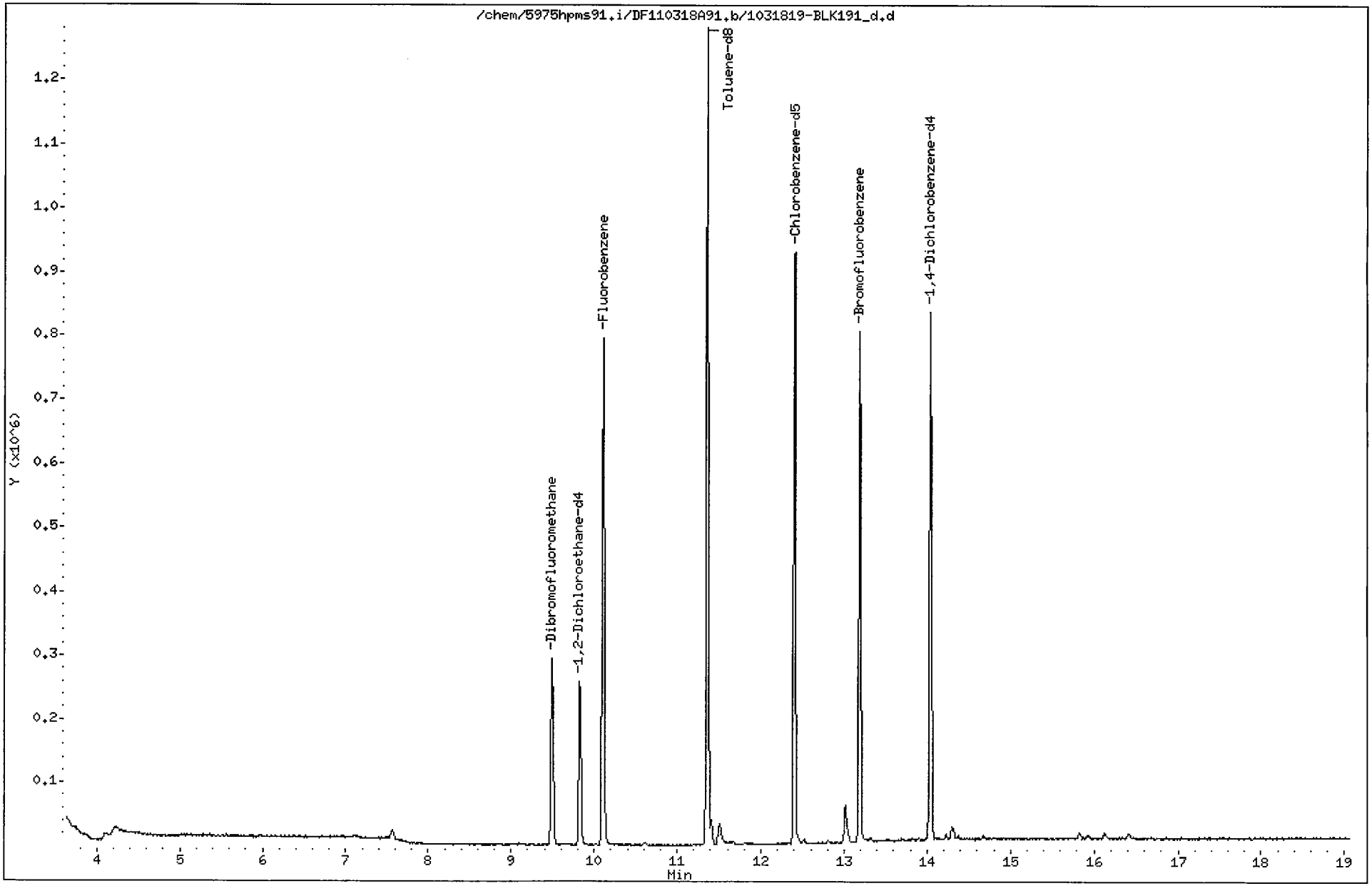
CompuChem

A Division Of

Liberty Analytical Corp.

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Date : 18-MAR-2011 18:53
Client ID: VBLKKT
Sample Info: 1031819-BLK1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Report Date: 22-Mar-2011 11:57

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Lab Smp Id: 1031819-BLK1 Client Smp ID: VBLKKT
Inj Date : 18-MAR-2011 18:53
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1031819-BLK1:JAO
Misc Info : VBLKKT
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	656014	125.000	
* 2 Chlorobenzene-d5	117	12.403	12.403	(1.000)	455403	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	217220	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.938)	175771	128.767	5.2
$ 5 1,2-Dichloroethane-d4	65	9.824	9.825	(0.972)	184490	128.050	5.1
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	739179	126.154	5.0
$ 7 Bromofluorobenzene	95	13.190	13.184	(0.940)	269248	122.404	4.9
8 Dichlorodifluoromethane	85	Compound Not Detected.					
9 Chloromethane	50	Compound Not Detected.					
10 Vinyl Chloride	62	Compound Not Detected.					
11 Bromomethane	94	Compound Not Detected.					
12 Chloroethane	64	Compound Not Detected.					
13 Trichlorofluoromethane	101	Compound Not Detected.					
14 Acrolein	56	Compound Not Detected.					
17 1,1-Dichloroethene	96	Compound Not Detected.					
18 Acetone	43	Compound Not Detected.					

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
19 Iodomethane	142	Compound Not Detected.					
20 Carbon disulfide	76	Compound Not Detected.					
22 3-Chloropropene	39	Compound Not Detected.					
23 Acetonitrile	41	Compound Not Detected.					
25 Methylene Chloride	84	Compound Not Detected.					
26 Acrylonitrile	53	Compound Not Detected.					
28 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Vinyl acetate	43	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 Chloroprene	53	Compound Not Detected.					
34 2-butanone	43	Compound Not Detected.					
35 2,2-Dichloropropane	77	Compound Not Detected.					
36 cis-1,2-Dichloroethene	96	Compound Not Detected.					
37 Propionitrile	54	Compound Not Detected.					
38 Methacrylonitrile	41	Compound Not Detected.					
39 Bromochloromethane	128	Compound Not Detected.					
40 Chloroform	83	Compound Not Detected.					
42 1,1,1-Trichloroethane	97	Compound Not Detected.					
44 1,1-dichloropropene	75	Compound Not Detected.					
45 Isobutyl alcohol	43	Compound Not Detected.					
46 Carbon Tetrachloride	117	Compound Not Detected.					
47 Benzene	78	Compound Not Detected.					
48 1,2-Dichloroethane	62	Compound Not Detected.					
49 Trichloroethene	130	Compound Not Detected.					
51 1,2-Dichloropropane	63	Compound Not Detected.					
52 Methylmethacrylate	69	Compound Not Detected.					
54 Dibromomethane	174	Compound Not Detected.					
55 Bromodichloromethane	83	Compound Not Detected.					
57 cis-1,3-Dichloropropene	75	Compound Not Detected.					
58 4-Methyl-2-pentanone	43	Compound Not Detected.					
59 Toluene	92	Compound Not Detected.					
60 Ethylmethacrylate	69	Compound Not Detected.					
61 trans-1,3-Dichloropropene	75	Compound Not Detected.					
62 1,1,2-Trichloroethane	97	Compound Not Detected.					
63 2-hexanone	43	Compound Not Detected.					
64 1,3-Dichloropropane	76	Compound Not Detected.					
65 Tetrachloroethene	164	Compound Not Detected.					
66 Dibromochloromethane	129	Compound Not Detected.					
69 Chlorobenzene	112	Compound Not Detected.					
70 Ethylbenzene	106	Compound Not Detected.					
71 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
72 m,p-Xylene	106	Compound Not Detected.					
73 m,p-Xylene (part of total)	106	Compound Not Detected.					
74 o-Xylene	106	Compound Not Detected.					
75 o-Xylene (part of total)	106	Compound Not Detected.					
76 Styrene	104	Compound Not Detected.					
77 Bromoform	173	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Report Date: 22-Mar-2011 11:57

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
79 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
81 1,2,3-Trichloropropane	110	Compound Not Detected.					
80 trans-1,4-dichloro-2-butene	53	Compound Not Detected.					
92 1,3-Dichlorobenzene	146	Compound Not Detected.					
93 1,4-Dichlorobenzene	146	Compound Not Detected.					
95 1,2-Dichlorobenzene	146	Compound Not Detected.					
97 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
98 Hexachlorobutadiene	225	Compound Not Detected.					
99 Naphthalene	128	Compound Not Detected.					
M 102 Xylene (total)	106	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Report Date: 22-Mar-2011 11:57

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1031819-BLK191_d.d
Lab Smp Id: 1031819-BLK1 Client Smp ID: VBLKKT
Inj Date : 18-MAR-2011 18:53
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1031819-BLK1:JAO
Misc Info : VBLKKT
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

c. Laboratory Control Sample Data

- Tabulated Results (ANALYSIS DATA SHEET)
- RIC and Quantitation report

ANALYSIS DATA SHEET

SW 8260B

VKTLCS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BS191.d | QC Type: LCS

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BS1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 19:32

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.353	0.030	0.50	
74-87-3	Chloromethane	5.257	0.11	0.50	
75-01-4	Vinyl chloride	5.301	0.070	0.50	
74-83-9	Bromomethane	5.496	0.11	0.50	
75-00-3	Chloroethane	4.965	0.20	0.50	
75-69-4	Trichlorofluoromethane	5.642	0.060	0.50	
107-02-8	Acrolein	51.53	1.0	5.0	
75-35-4	1,1-Dichloroethene	5.474	0.040	0.50	
67-64-1	Acetone	26.06	0.44	2.5	
74-88-4	Iodomethane	4.494	0.030	0.50	
75-15-0	Carbon disulfide	5.622	0.020	0.50	
107-05-1	3-Chloropropene	5.473	0.050	0.50	
75-05-8	Acetonitrile	5.245	0.030	0.50	
75-09-2	Methylene chloride	5.621	0.020	0.50	
107-13-1	Acrylonitrile	54.47	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.274	0.050	0.50	
75-34-3	1,1-Dichloroethane	5.442	0.020	0.50	
126-99-8	Chloroprene	5.086	0.020	0.50	
108-05-4	Vinyl acetate	10.64	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	5.365	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.201	0.030	0.50	
107-12-0	Propionitrile	282.7	1.4	25	
78-93-3	2-Butanone	25.13	0.28	2.5	
126-98-7	Methacrylonitrile	57.80	0.39	5.0	
74-97-5	Bromochloromethane	5.404	0.040	0.50	
67-66-3	Chloroform	5.387	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.273	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.468	0.030	0.50	
56-23-5	Carbon tetrachloride	5.321	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.490	0.030	0.50	
78-83-1	Isobutyl alcohol	260.6	5.9	25	
71-43-2	Benzene	5.347	0.030	0.50	
79-01-6	Trichloroethene	5.122	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.488	0.12	0.50	
74-95-3	Dibromomethane	5.449	0.030	0.50	
80-62-6	Methyl Methacrylate	60.23	0.56	5.0	
75-27-4	Bromodichloromethane	5.351	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	5.153	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	26.44	0.42	2.5	

Environmental Testing Laboratories

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ANALYSIS DATA SHEET

SW 8260B

VKTLCS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-BS191.d | QC Type: LCS

Initial/Final: 25mL / 25mL | Lab ID: 1031819-BS1 | Column ID: SPB-624

Dilution: 1 | pH: | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/18/11 19:32

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.086	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.429	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	5.201	0.040	0.50	
97-63-2	Ethyl Methacrylate	56.31	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.459	0.030	0.50	
127-18-4	Tetrachloroethene	3.756	0.060	0.50	
591-78-6	2-Hexanone	26.46	0.51	2.5	
124-48-1	Dibromochloromethane	5.025	0.040	0.50	
108-90-7	Chlorobenzene	5.081	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	5.064	0.020	0.50	
100-41-4	Ethylbenzene	5.218	0.040	0.50	
179601-23-1	m,p-Xylene	10.52	0.080	1.0	
95-47-6	o-Xylene	5.275	0.030	0.50	
100-42-5	Styrene	5.267	0.020	0.50	
75-25-2	Bromoform	4.935	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	5.299	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	5.376	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	20.78	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	5.112	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.962	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	5.014	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	5.089	0.060	0.50	
87-68-3	Hexachlorobutadiene	5.199	0.030	0.50	
91-20-3	Naphthalene	4.881	0.15	0.50	
1330-20-7	Xylenes (total)	15.80	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.363	107	65 - 150	
1,2-Dichloroethane-d4	5.000	5.500	110	59 - 150	
Toluene-d8	5.000	5.159	103	61 - 145	
Bromofluorobenzene	5.000	5.026	101	63 - 143	

Environmental Testing Laboratories
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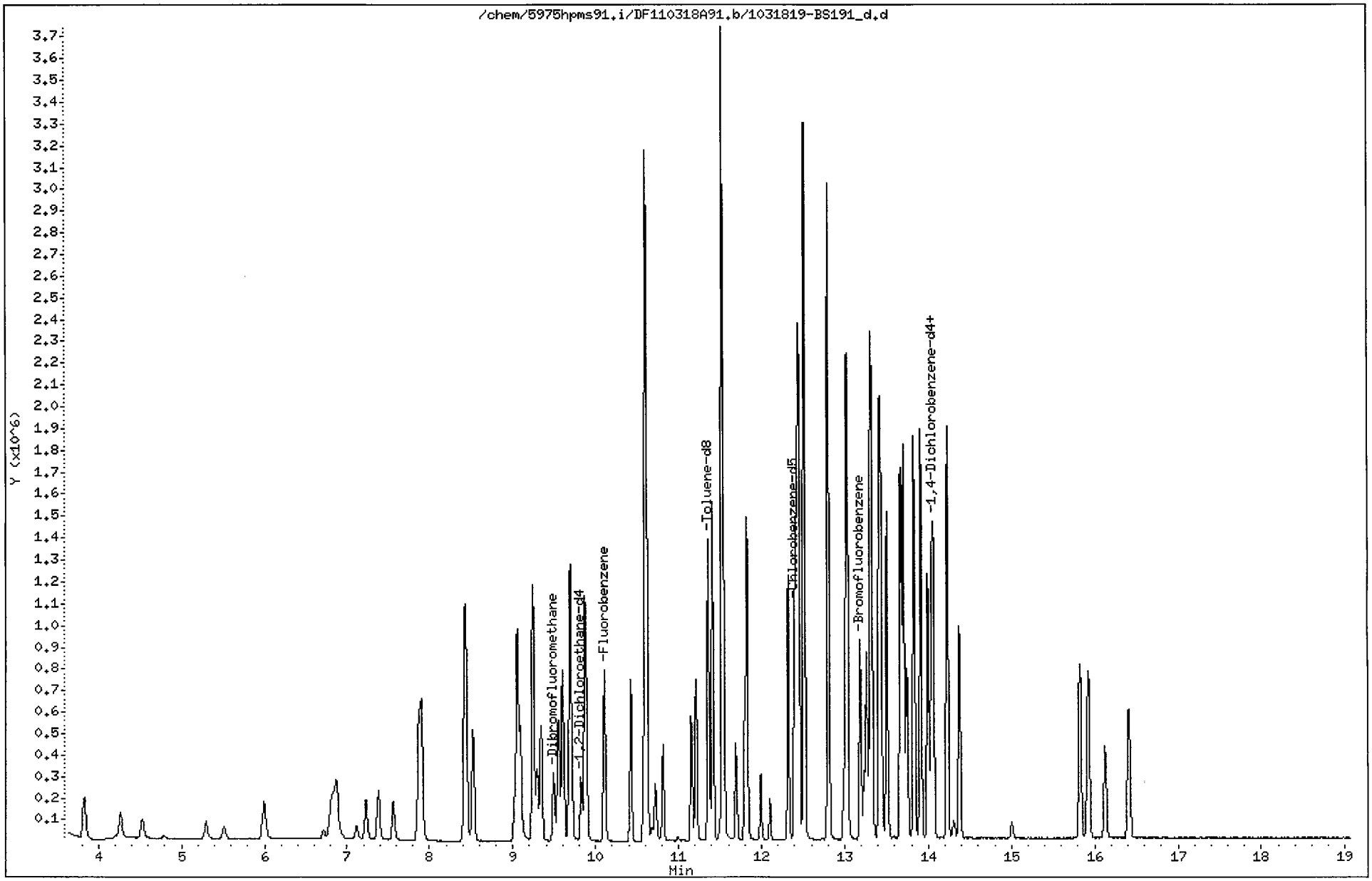
Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BS191_d.d
Date : 18-MAR-2011 19:32
Client ID: VKTLCS
Sample Info: 1031819-BS1:JAO
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: JAO
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BS191_d.d
Report Date: 22-Mar-2011 11:54

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1031819-BS191_d.d
Lab Smp Id: 1031819-BS1 Client Smp ID: VKTLCS
Inj Date : 18-MAR-2011 19:32
Operator : JAO Inst ID: 5975hpms91.i
Smp Info : 1031819-BS1:JAO
Misc Info : VKTLCS
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	661674	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.403	(1.000)	491900	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.043	14.043	(1.000)	251139	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	184601	134.078	5.4
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	199816	137.501	5.5
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	816206	128.965	5.2
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	319546	125.650	5.0
8 Dichlorodifluoromethane	85	3.832	3.826	(0.379)	280614	133.837	5.4
9 Chloromethane	50	4.265	4.265	(0.422)	159074	131.420	5.3
10 Vinyl Chloride	62	4.527	4.527	(0.448)	138397	132.531	5.3
11 Bromomethane	94	5.301	5.301	(0.524)	77190	137.396	5.5
12 Chloroethane	64	5.514	5.515	(0.545)	69204	124.117	5.0
13 Trichlorofluoromethane	101	5.990	5.996	(0.592)	212624	141.047	5.6
14 Acrolein	56	6.709	6.709	(0.664)	41765	1288.35	52
17 1,1-Dichloroethene	96	6.874	6.874	(0.680)	91154	136.856	5.5

pmd 3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BS191_d.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
18 Acetone	43	6.923	6.929	(0.685)	50472	651.400	26
19 Iodomethane	142	7.118	7.118	(0.704)	83406	112.351	4.5
20 Carbon disulfide	76	7.228	7.228	(0.715)	313446	140.540	5.6
22 3-Chloropropene	39	7.386	7.386	(0.730)	132950	136.815	5.5
23 Acetonitrile	41	7.386	7.386	(0.730)	160430	131.113	5.2
25 Methylene Chloride	84	7.569	7.563	(0.749)	87867	140.519	5.6
26 Acrylonitrile	53	7.874	7.874	(0.779)	288510	1361.68	54
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	212715	131.844	5.3
31 Vinyl acetate	43	8.422	8.423	(0.833)	695739	265.948	11
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	402419	136.060	5.4
33 Chloroprene	53	8.526	8.526	(0.843)	352807	127.144	5.1
34 2-butanone	43	9.014	9.020	(0.891)	173655	628.173	25
35 2,2-Dichloropropane	77	9.056	9.050	(0.896)	336909	130.029	5.2
36 cis-1,2-Dichloroethene	96	9.056	9.057	(0.896)	220655	134.135	5.4
37 Propionitrile	54	9.093	9.093	(0.899)	551194	7067.84	280
38 Methacrylonitrile	41	9.245	9.246	(0.914)	597741	1445.03	58
39 Bromochloromethane	128	9.294	9.294	(0.919)	79036	135.100	5.4
40 Chloroform	83	9.343	9.343	(0.924)	405673	134.677	5.4
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	378623	131.836	5.3
44 1,1-dichloropropene	75	9.697	9.697	(0.959)	322414	136.708	5.5
45 Isobutyl alcohol	43	9.678	9.678	(0.957)	149565	6515.79	260
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	322296	133.033	5.3
47 Benzene	78	9.873	9.873	(0.976)	900998	133.667	5.3
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	248405	137.243	5.5
49 Trichloroethene	130	10.428	10.428	(1.031)	217621	128.051	5.1
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	203598	137.203	5.5
52 Methylmethacrylate	69	10.611	10.611	(1.049)	871344	1505.64	60
54 Dibromomethane	174	10.727	10.727	(1.061)	79761	136.228	5.4
55 Bromodichloromethane	83	10.812	10.818	(1.069)	267571	133.782	5.4
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.103)	282231	128.826	5.2
58 4-Methyl-2-pentanone	43	11.208	11.209	(0.904)	465237	661.041	26
59 Toluene	92	11.410	11.410	(0.920)	593562	127.157	5.1
60 Ethylmethacrylate	69	11.525	11.526	(0.930)	1721983	1407.84	56
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	267220	135.736	5.4
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	127231	130.021	5.2
63 2-hexanone	43	11.800	11.800	(0.952)	320656	661.403	26
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	239730	136.486	5.5
65 Tetrachloroethene	164	11.824	11.824	(0.954)	187819	93.9044	3.8
66 Dibromochloromethane	129	11.995	11.995	(0.968)	144957	125.620	5.0
69 Chlorobenzene	112	12.422	12.422	(1.002)	612288	127.029	5.1
70 Ethylbenzene	106	12.446	12.446	(1.004)	365604	130.461	5.2
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	199039	126.607	5.1
72 m,p-Xylene	106	12.519	12.513	(1.010)	902544	263.009	11
73 m,p-Xylene (part of total)	106	12.519	12.513	(1.010)	902544	263.009	11
74 o-Xylene	106	12.800	12.800	(1.032)	431665	131.878	5.3
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	431665	131.878	5.3
76 Styrene	104	12.806	12.806	(1.033)	679803	131.684	5.3

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-BS191_d.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77 Bromoform	173	12.989	12.989	(1.048)	70990	123.370	4.9
79 1,1,2,2-Tetrachloroethane	83	13.232	13.233	(0.942)	147351	132.482	5.3
81 1,2,3-Trichloropropane	110	13.293	13.294	(1.072)	42266	134.411	5.4
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	175412	519.454	21
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	506463	127.801	5.1
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.001)	496552	124.046	5.0
95 1,2-Dichlorobenzene	146	14.373	14.373	(1.023)	418157	125.342	5.0
97 1,2,4-Trichlorobenzene	180	15.830	15.830	(1.127)	310322	127.216	5.1
98 Hexachlorobutadiene	225	15.927	15.927	(1.134)	192142	129.983	5.2
99 Naphthalene	128	16.128	16.128	(1.148)	441698	122.018	4.9
M 102 Xylene (total)	106				1334209	407.614	16

d. Matrix Spike Data

- Tabulated Results (ANALYSIS DATA SHEET)
- RIC and Quantitation report

ANALYSIS DATA SHEET

SW 8260B

MW-3MS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MS191.d | QC Type: Matrix Spike

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MS1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:17

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.912	0.030	0.50	
74-87-3	Chloromethane	5.744	0.11	0.50	
75-01-4	Vinyl chloride	6.250	0.070	0.50	
74-83-9	Bromomethane	6.425	0.11	0.50	
75-00-3	Chloroethane	7.372	0.20	0.50	
75-69-4	Trichlorofluoromethane	6.415	0.060	0.50	
107-02-8	Acrolein	45.96	1.0	5.0	
75-35-4	1,1-Dichloroethene	6.272	0.040	0.50	
67-64-1	Acetone	26.81	0.44	2.5	
74-88-4	Iodomethane	4.562	0.030	0.50	
75-15-0	Carbon disulfide	6.411	0.020	0.50	
107-05-1	3-Chloropropene	6.001	0.050	0.50	
75-05-8	Acetonitrile	5.813	0.030	0.50	
75-09-2	Methylene chloride	6.108	0.020	0.50	
107-13-1	Acrylonitrile	48.15	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.806	0.050	0.50	
75-34-3	1,1-Dichloroethane	12.63	0.020	0.50	
126-99-8	Chloroprene	5.446	0.020	0.50	
108-05-4	Vinyl acetate	10.07	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	22.20	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.923	0.030	0.50	
107-12-0	Propionitrile	257.1	1.4	25	
78-93-3	2-Butanone	22.18	0.28	2.5	
126-98-7	Methacrylonitrile	51.61	0.39	5.0	
74-97-5	Bromochloromethane	5.409	0.040	0.50	
67-66-3	Chloroform	5.745	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.649	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.846	0.030	0.50	
56-23-5	Carbon tetrachloride	5.774	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.473	0.030	0.50	
78-83-1	Isobutyl alcohol	244.4	5.9	25	
71-43-2	Benzene	5.486	0.030	0.50	
79-01-6	Trichloroethene	7.279	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.801	0.12	0.50	
74-95-3	Dibromomethane	5.202	0.030	0.50	
80-62-6	Methyl Methacrylate	54.42	0.56	5.0	
75-27-4	Bromodichloromethane	5.224	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.868	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	23.47	0.42	2.5	

ANALYSIS DATA SHEET

SW 8260B

MW-3MS

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MS191.d | QC Type: Matrix Spike

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MS1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:17

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.188	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.128	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	4.844	0.040	0.50	
97-63-2	Ethyl Methacrylate	52.38	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.075	0.030	0.50	
127-18-4	Tetrachloroethene	4.036	0.060	0.50	
591-78-6	2-Hexanone	22.94	0.51	2.5	
124-48-1	Dibromochloromethane	4.723	0.040	0.50	
108-90-7	Chlorobenzene	5.089	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	4.987	0.020	0.50	
100-41-4	Ethylbenzene	5.121	0.040	0.50	
179601-23-1	m,p-Xylene	10.34	0.080	1.0	
95-47-6	o-Xylene	5.066	0.030	0.50	
100-42-5	Styrene	5.023	0.020	0.50	
75-25-2	Bromoform	4.382	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	4.697	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	4.812	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	19.53	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	4.613	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.611	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	4.629	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.020	0.060	0.50	
87-68-3	Hexachlorobutadiene	4.484	0.030	0.50	
91-20-3	Naphthalene	3.603	0.15	0.50	
1330-20-7	Xylenes (total)	15.40	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.382	108	65 - 150	
1,2-Dichloroethane-d4	5.000	5.186	104	59 - 150	
Toluene-d8	5.000	5.083	102	61 - 145	
Bromofluorobenzene	5.000	4.766	95	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories

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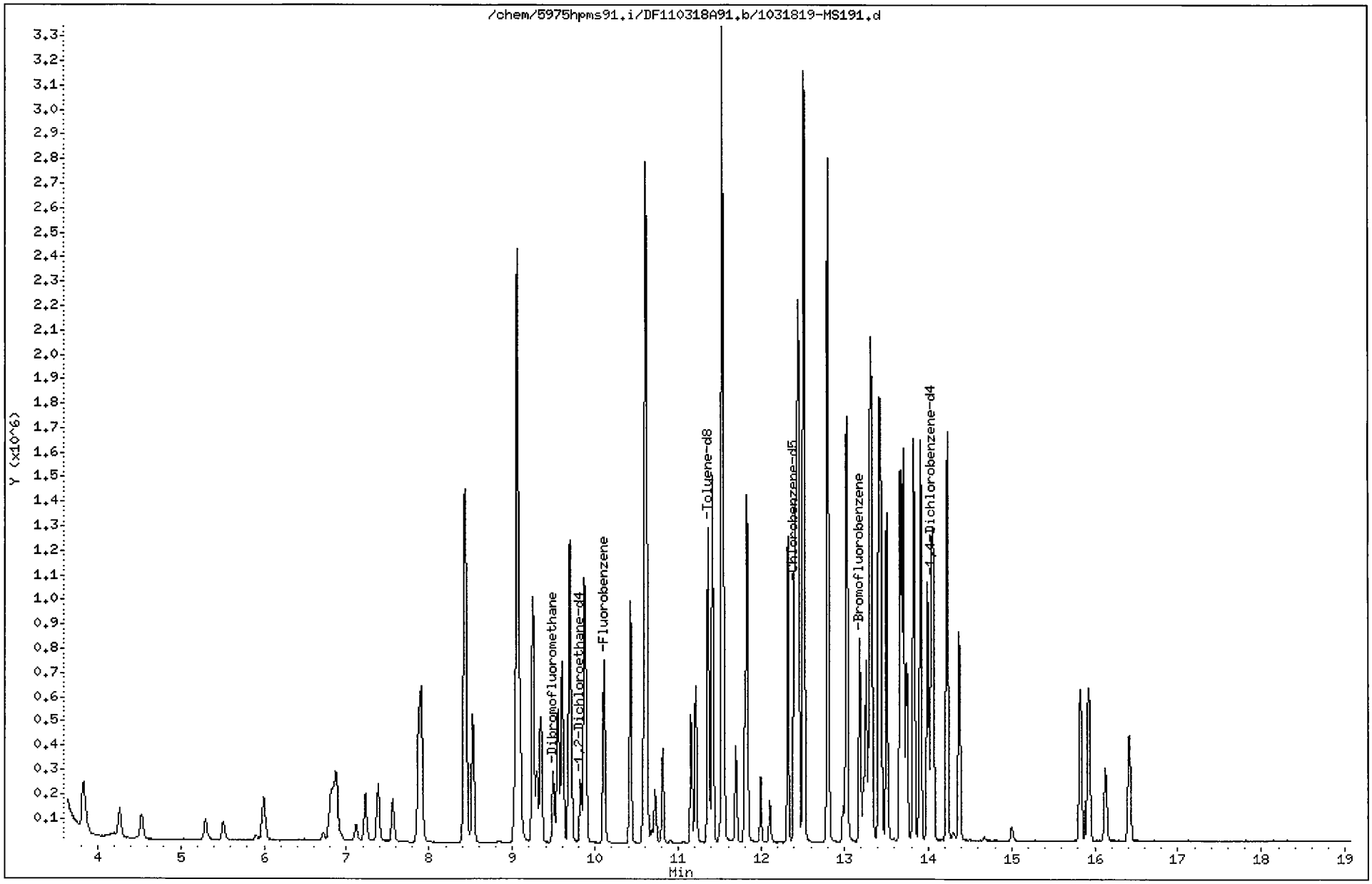
Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MS191.d
Date : 19-MAR-2011 00:17
Client ID: MW-3MS
Sample Info: 1031819-MS1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MS191.d
Report Date: 22-Mar-2011 11:54

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1031819-MS191.d
Lab Smp Id: 1031819-MS1 Client Smp ID: MW-3MS
Inj Date : 19-MAR-2011 00:17
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031819-MS1:TD
Misc Info : MW-3MS
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 14 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	614830	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.403	(1.000)	462028	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	235728	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	172134	134.549	5.4
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	175063	129.646	5.2
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	755389	127.072	5.1
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	284426	119.152	4.8
8 Dichlorodifluoromethane	85	3.832	3.826	(0.379)	287939	147.794	5.9
9 Chloromethane	50	4.265	4.265	(0.422)	161509	143.597	5.7
10 Vinyl Chloride	62	4.533	4.527	(0.448)	151606	156.242	6.2
11 Bromomethane	94	5.301	5.301	(0.524)	83845	160.613	6.4
12 Chloroethane	64	5.515	5.515	(0.545)	95481	184.292	7.4
13 Trichlorofluoromethane	101	5.996	5.996	(0.593)	224638	160.370	6.4
14 Acrolein	56	6.709	6.709	(0.664)	34608	1148.91	46
17 1,1-Dichloroethene	96	6.880	6.874	(0.680)	97039	156.792	6.3

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MS191.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
18 Acetone	43	6.929	6.929	(0.685)	48252	670.196	27
19 Iodomethane	142	7.118	7.118	(0.704)	78678	114.057	4.6
20 Carbon disulfide	76	7.234	7.228	(0.715)	332170	160.282	6.4
22 3-Chloropropene	39	7.386	7.386	(0.730)	135470	150.030	6.0
23 Acetonitrile	41	7.386	7.386	(0.730)	165223	145.318	5.8
25 Methylene Chloride	84	7.563	7.563	(0.748)	88127	152.704	6.1
26 Acrylonitrile	53	7.874	7.874	(0.779)	236995	1203.77	48
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	217622	145.162	5.8
31 Vinyl acetate	43	8.423	8.423	(0.833)	611713	251.645	10
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	867469	315.643	13(R)
33 Chloroprene	53	8.526	8.526	(0.843)	351072	136.159	5.4
34 2-butanone	43	9.020	9.020	(0.892)	142408	554.390	22
35 2,2-Dichloropropane	77	9.050	9.050	(0.895)	356489	148.068	5.9
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	848410	555.037	22(R)
37 Propionitrile	54	9.093	9.093	(0.899)	465709	6426.67	260
38 Methacrylonitrile	41	9.246	9.246	(0.914)	495964	1290.34	52
39 Bromochloromethane	128	9.294	9.294	(0.919)	73508	135.224	5.4
40 Chloroform	83	9.343	9.343	(0.924)	402031	143.637	5.7
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	376884	141.229	5.6
44 1,1-dichloropropene	75	9.697	9.697	(0.959)	320267	146.144	5.8
45 Isobutyl alcohol	43	9.678	9.678	(0.957)	130327	6110.27	240
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	324943	144.345	5.8
47 Benzene	78	9.873	9.873	(0.976)	859011	137.147	5.5
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	230106	136.819	5.5
49 Trichloroethene	130	10.428	10.428	(1.031)	287368	181.974	7.3
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	199961	145.019	5.8
52 Methylmethacrylate	69	10.611	10.611	(1.049)	731618	1360.52	54
54 Dibromomethane	174	10.727	10.727	(1.061)	70759	130.061	5.2
55 Bromodichloromethane	83	10.812	10.818	(1.069)	242724	130.606	5.2
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.103)	247740	121.698	4.9
58 4-Methyl-2-pentanone	43	11.209	11.209	(0.904)	387861	586.730	23
59 Toluene	92	11.410	11.410	(0.920)	568645	129.696	5.2
60 Ethylmethacrylate	69	11.526	11.526	(0.930)	1504540	1309.60	52
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	237063	128.203	5.1
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	111317	121.112	4.8
63 2-hexanone	43	11.800	11.800	(0.952)	261197	573.592	23
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	209324	126.880	5.1
65 Tetrachloroethene	164	11.824	11.824	(0.954)	189567	100.906	4.0
66 Dibromochloromethane	129	11.995	11.995	(0.968)	127989	118.087	4.7
69 Chlorobenzene	112	12.422	12.422	(1.002)	576017	127.231	5.1
70 Ethylbenzene	106	12.446	12.446	(1.004)	337003	128.030	5.1
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	184113	124.685	5.0
72 m,p-Xylene	106	12.513	12.513	(1.009)	832865	258.396	10
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	832865	258.396	10
74 o-Xylene	106	12.800	12.800	(1.032)	389344	126.639	5.1
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	389344	126.639	5.1
76 Styrene	104	12.806	12.806	(1.033)	608838	125.563	5.0

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MS191.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77 Bromoform	173	12.989	12.989	(1.048)	59207	109.545	4.4
79 1,1,2,2-Tetrachloroethane	83	13.233	13.233	(0.943)	122578	117.414	4.7
81 1,2,3-Trichloropropane	110	13.294	13.294	(1.072)	35530	120.295	4.8
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	154888	488.331	20
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	428956	115.320	4.6
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	433160	115.284	4.6
95 1,2-Dichlorobenzene	146	14.373	14.373	(1.024)	362370	115.721	4.6
97 1,2,4-Trichlorobenzene	180	15.824	15.830	(1.127)	230099	100.496	4.0
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	155540	112.101	4.5
99 Naphthalene	128	16.128	16.128	(1.149)	306038	90.0693	3.6
M 102 Xylene (total)	106				1222209	397.539	16

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ANALYSIS DATA SHEET

SW 8260B

MW-3MSD

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MSD191.d | QC Type: Matrix Spike Dup

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MSD1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:46

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
75-71-8	Dichlorodifluoromethane	5.908	0.030	0.50	
74-87-3	Chloromethane	5.887	0.11	0.50	
75-01-4	Vinyl chloride	6.120	0.070	0.50	
74-83-9	Bromomethane	5.989	0.11	0.50	
75-00-3	Chloroethane	7.395	0.20	0.50	
75-69-4	Trichlorofluoromethane	6.324	0.060	0.50	
107-02-8	Acrolein	49.57	1.0	5.0	
75-35-4	1,1-Dichloroethene	5.999	0.040	0.50	
67-64-1	Acetone	27.19	0.44	2.5	
74-88-4	Iodomethane	5.057	0.030	0.50	
75-15-0	Carbon disulfide	6.176	0.020	0.50	
107-05-1	3-Chloropropene	5.933	0.050	0.50	
75-05-8	Acetonitrile	5.786	0.030	0.50	
75-09-2	Methylene chloride	5.914	0.020	0.50	
107-13-1	Acrylonitrile	49.42	0.36	5.0	
156-60-5	trans-1,2-Dichloroethene	5.618	0.050	0.50	
75-34-3	1,1-Dichloroethane	12.29	0.020	0.50	
126-99-8	Chloroprene	5.323	0.020	0.50	
108-05-4	Vinyl acetate	10.18	0.060	1.0	
156-59-2	cis-1,2-Dichloroethene	21.77	0.030	0.50	
594-20-7	2,2-Dichloropropane	5.700	0.030	0.50	
107-12-0	Propionitrile	259.2	1.4	25	
78-93-3	2-Butanone	23.16	0.28	2.5	
126-98-7	Methacrylonitrile	52.56	0.39	5.0	
74-97-5	Bromochloromethane	5.249	0.040	0.50	
67-66-3	Chloroform	5.578	0.030	0.50	
71-55-6	1,1,1-Trichloroethane	5.475	0.020	0.50	
563-58-6	1,1-Dichloropropene	5.680	0.030	0.50	
56-23-5	Carbon tetrachloride	5.571	0.030	0.50	
107-06-2	1,2-Dichloroethane	5.405	0.030	0.50	
78-83-1	Isobutyl alcohol	256.5	5.9	25	
71-43-2	Benzene	5.348	0.030	0.50	
79-01-6	Trichloroethene	7.123	0.030	0.50	
78-87-5	1,2-Dichloropropane	5.657	0.12	0.50	
74-95-3	Dibromomethane	5.141	0.030	0.50	
80-62-6	Methyl Methacrylate	56.16	0.56	5.0	
75-27-4	Bromodichloromethane	5.196	0.030	0.50	
10061-01-5	cis-1,3-Dichloropropene	4.908	0.040	0.50	
108-10-1	4-Methyl-2-pentanone	24.49	0.42	2.5	

ANALYSIS DATA SHEET

SW 8260B

MW-3MSD

Client: DRAPER | SDG: 1103087 | Project: WATAUGA COUNTY LANDFILL 6520-39

Matrix: Water | Extraction: SW 5030A/5030B | File ID: 1031819-MSD191.d | QC Type: Matrix Spike Dup

Initial/Final: 25mL / 25mL | Lab ID: 1031819-MSD1 | Column ID: SPB-624

Dilution: 1 | pH: 1 | Prepared: 03/18/11 18:53

% Moisture: NA | Analyzed: 03/19/11 00:46

Batch: 1031819 | Sequence: 1C18005 | Calibration: 1032305 | Instrument: 5975hpms91

CAS NO.	COMPOUND	CONC.(ug/L)	MDL	RL	Q
108-88-3	Toluene	5.055	0.030	0.50	
10061-02-6	trans-1,3-Dichloropropene	5.153	0.050	0.50	
79-00-5	1,1,2-Trichloroethane	4.863	0.040	0.50	
97-63-2	Ethyl Methacrylate	53.65	0.41	5.0	
142-28-9	1,3-Dichloropropane	5.100	0.030	0.50	
127-18-4	Tetrachloroethene	4.019	0.060	0.50	
591-78-6	2-Hexanone	24.20	0.51	2.5	
124-48-1	Dibromochloromethane	4.731	0.040	0.50	
108-90-7	Chlorobenzene	5.087	0.020	0.50	
630-20-6	1,1,1,2-Tetrachloroethane	4.955	0.020	0.50	
100-41-4	Ethylbenzene	5.166	0.040	0.50	
179601-23-1	m,p-Xylene	10.56	0.080	1.0	
95-47-6	o-Xylene	5.241	0.030	0.50	
100-42-5	Styrene	5.064	0.020	0.50	
75-25-2	Bromoform	4.542	0.030	0.50	
79-34-5	1,1,2,2-Tetrachloroethane	4.726	0.050	0.50	
96-18-4	1,2,3-Trichloropropane	4.997	0.090	0.50	
110-57-6	trans-1,4-Dichloro-2-butene	20.21	0.33	2.0	
541-73-1	1,3-Dichlorobenzene	4.876	0.040	0.50	
106-46-7	1,4-Dichlorobenzene	4.905	0.030	0.50	
95-50-1	1,2-Dichlorobenzene	4.856	0.030	0.50	
120-82-1	1,2,4-Trichlorobenzene	4.637	0.060	0.50	
87-68-3	Hexachlorobutadiene	5.047	0.030	0.50	
91-20-3	Naphthalene	4.275	0.15	0.50	
1330-20-7	Xylenes (total)	15.80	0.030	0.50	

SURROGATE RECOVERY RESULTS	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Dibromofluoromethane	5.000	5.247	105	65 - 150	
1,2-Dichloroethane-d4	5.000	5.177	104	59 - 150	
Toluene-d8	5.000	4.914	98	61 - 145	
Bromofluorobenzene	5.000	4.628	93	63 - 143	

CAS NO.	TICS	CONC.(ug/L)	Response	R.T.	% Match	Q

Environmental Testing Laboratories
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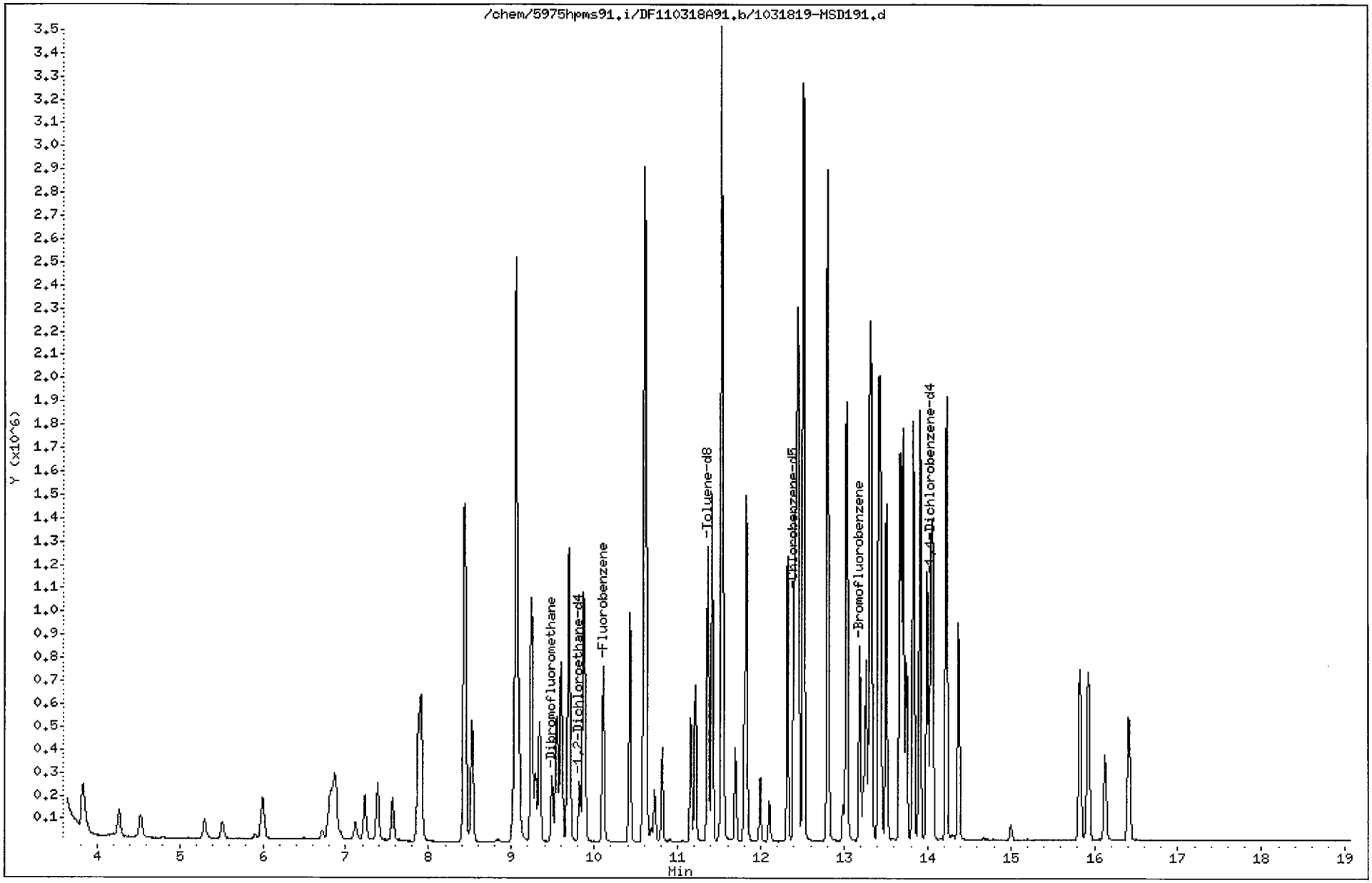
Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MSD191.d
Date : 19-MAR-2011 00:46
Client ID: MW-3MSD
Sample Info: 1031819-MSD1:TD
Purge Volume: 25.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MSD191.d
Report Date: 22-Mar-2011 11:54

CompuChem

SW846 UPDATE III METHOD 8260B QUANT & RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318A91.b/1031819-MSD191.d
Lab Smp Id: 1031819-MSD1 Client Smp ID: MW-3MSD
Inj Date : 19-MAR-2011 00:46
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031819-MSD1:TD
Misc Info : MW-3MSD
Comment :
Method : /chem/5975hpms91.i/DF110318A91.b/W8260-B-25MLv14.m
Meth Date : 22-Mar-2011 11:54 ron Quant Type: ISTD
Cal Date : 17-MAR-2011 16:52 Cal File: 1C17006-CAL691.d
Als bottle: 15 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PPS8970.sub
Target Version: 3.50
Processing Host: dante

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	25.00000	volume of water
DF	1.00000	dilution factor

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 Fluorobenzene	96	10.111	10.111	(1.000)	631424	125.000	
* 2 Chlorobenzene-d5	117	12.397	12.403	(1.000)	473156	125.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.043	(1.000)	245170	125.000	
$ 4 Dibromofluoromethane	113	9.489	9.489	(0.939)	172340	131.170	5.2
$ 5 1,2-Dichloroethane-d4	65	9.825	9.825	(0.972)	179480	129.424	5.2
$ 6 Toluene-d8	98	11.361	11.361	(0.916)	747912	122.856	4.9
$ 7 Bromofluorobenzene	95	13.184	13.184	(0.939)	287221	115.689	4.6
8 Dichlorodifluoromethane	85	3.832	3.826	(0.379)	295541	147.709	5.9
9 Chloromethane	50	4.265	4.265	(0.422)	170008	147.181	5.9
10 Vinyl Chloride	62	4.527	4.527	(0.448)	152473	153.006	6.1
11 Bromomethane	94	5.301	5.301	(0.524)	80277	149.737	6.0
12 Chloroethane	64	5.521	5.515	(0.546)	98373	184.884	7.4
13 Trichlorofluoromethane	101	6.002	5.996	(0.594)	227423	158.092	6.3
14 Acrolein	56	6.709	6.709	(0.664)	38333	1239.13	50
17 1,1-Dichloroethene	96	6.880	6.874	(0.680)	95333	149.987	6.0

3-22-11

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MSD191.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
18 Acetone	43	6.923	6.929	(0.685)	50260	679.740	27
19 Iodomethane	142	7.118	7.118	(0.704)	89571	126.436	5.1
20 Carbon disulfide	76	7.228	7.228	(0.715)	328629	154.406	6.2
22 3-Chloropropene	39	7.386	7.386	(0.730)	137544	148.324	5.9
23 Acetonitrile	41	7.386	7.386	(0.730)	168889	144.639	5.8
25 Methylene Chloride	84	7.563	7.563	(0.748)	87859	147.859	5.9
26 Acrylonitrile	53	7.874	7.874	(0.779)	249825	1235.59	49
28 trans-1,2-Dichloroethene	96	7.910	7.910	(0.782)	216230	140.443	5.6
31 Vinyl acetate	43	8.423	8.423	(0.833)	635350	254.500	10
32 1,1-Dichloroethane	63	8.435	8.435	(0.834)	867445	307.339	12(R)
33 Chloroprene	53	8.526	8.526	(0.843)	352385	133.076	5.3
34 2-butanone	43	9.020	9.020	(0.892)	152752	579.031	23
35 2,2-Dichloropropane	77	9.057	9.050	(0.896)	352338	142.498	5.7
36 cis-1,2-Dichloroethene	96	9.057	9.057	(0.896)	854290	544.196	22(R)
37 Propionitrile	54	9.093	9.093	(0.899)	482286	6480.52	260
38 Methacrylonitrile	41	9.246	9.246	(0.914)	518736	1314.12	53
39 Bromochloromethane	128	9.294	9.294	(0.919)	73254	131.215	5.2
40 Chloroform	83	9.343	9.343	(0.924)	400882	139.462	5.6
42 1,1,1-Trichloroethane	97	9.550	9.550	(0.945)	375129	136.877	5.5
44 1,1-dichloropropene	75	9.697	9.697	(0.959)	319596	142.005	5.7
45 Isobutyl alcohol	43	9.678	9.678	(0.957)	140473	6412.88	260
46 Carbon Tetrachloride	117	9.703	9.703	(0.960)	321987	139.273	5.6
47 Benzene	78	9.873	9.873	(0.976)	859956	133.690	5.3
48 1,2-Dichloroethane	62	9.892	9.892	(0.978)	233404	135.133	5.4
49 Trichloroethene	130	10.428	10.428	(1.031)	288813	178.083	7.1
51 1,2-Dichloropropane	63	10.617	10.617	(1.050)	200274	141.429	5.7
52 Methylmethacrylate	69	10.611	10.611	(1.049)	775336	1403.93	56
54 Dibromomethane	174	10.727	10.727	(1.061)	71807	128.519	5.1
55 Bromodichloromethane	83	10.812	10.818	(1.069)	247941	129.907	5.2
57 cis-1,3-Dichloropropene	75	11.154	11.154	(1.103)	256496	122.688	4.9
58 4-Methyl-2-pentanone	43	11.209	11.209	(0.904)	414396	612.127	24
59 Toluene	92	11.410	11.410	(0.920)	567378	126.363	5.1
60 Ethylmethacrylate	69	11.526	11.526	(0.930)	1577910	1341.16	54
61 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	243964	128.832	5.2
62 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	114439	121.581	4.9
63 2-hexanone	43	11.800	11.800	(0.952)	282162	605.059	24
64 1,3-Dichloropropane	76	11.824	11.824	(0.954)	215410	127.498	5.1
65 Tetrachloroethene	164	11.824	11.824	(0.954)	193312	100.480	4.0
66 Dibromochloromethane	129	11.995	11.995	(0.968)	131287	118.281	4.7
69 Chlorobenzene	112	12.422	12.422	(1.002)	589637	127.176	5.1
70 Ethylbenzene	106	12.446	12.446	(1.004)	348170	129.162	5.2
71 1,1,1,2-Tetrachloroethane	131	12.458	12.458	(1.005)	187313	123.869	5.0
72 m,p-Xylene	106	12.513	12.513	(1.009)	871633	264.064	11
73 m,p-Xylene (part of total)	106	12.513	12.513	(1.009)	871633	264.064	11
74 o-Xylene	106	12.800	12.800	(1.032)	412529	131.024	5.2
75 o-Xylene (part of total)	106	12.800	12.800	(1.032)	412529	131.024	5.2
76 Styrene	104	12.806	12.806	(1.033)	628618	126.593	5.1

Data File: /chem/5975hpms91.i/DF110318A91.b/1031819-MSD191.d
Report Date: 22-Mar-2011 11:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
77 Bromoform	173	12.989	12.989	(1.048)	62850	113.550	4.5
79 1,1,2,2-Tetrachloroethane	83	13.233	13.233	(0.943)	128281	118.144	4.7
81 1,2,3-Trichloropropane	110	13.294	13.294	(1.072)	37783	124.914	5.0
80 trans-1,4-dichloro-2-butene	53	13.263	13.263	(1.070)	164094	505.188	20
92 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	471581	121.896	4.9
93 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	479189	122.623	4.9
95 1,2-Dichlorobenzene	146	14.373	14.373	(1.024)	395413	121.410	4.9
97 1,2,4-Trichlorobenzene	180	15.824	15.830	(1.127)	276051	115.922	4.6
98 Hexachlorobutadiene	225	15.927	15.927	(1.135)	182091	126.182	5.0
99 Naphthalene	128	16.128	16.128	(1.149)	377651	106.865	4.3
M 102 Xylene (total)	106				1284162	407.866	16

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

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Type I Data Package

Prepared for:

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

Project: Watauga County, NC
Water Samples
Collected on 03/17/11

SDG# WAT13

GROUP	SAMPLE NUMBERS
1237939	6233196-6233202

PA Cert. # 36-00037
NY Cert. # 10670
NJ Cert. # PA011
NC Cert. # 521
TX Cert. # T104704194-08A-TX

Through our technical processes and second person review of data, we have established that our data/deliverables are in compliance with the methods and project requirements unless otherwise noted or previously resolved with the client.

Authorized by: Dana M Kauffman **Date: 04/08/2011**

Dana M. Kauffman
Manager

Any questions or concerns you might have regarding this data package should be directed to your client representative, Barbara Weyandt at Ext. 1576.

Total Number of Pages 253

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Sample Reference List for SDG Number WAT13
with a Data Package Type of I
11200 - Draper Aden Associates, Inc.
Project: Watauga County, NC

Lab Sample Number	Lab Sample Code	Client Sample Description
6233196	WCRE1	RES-1 Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233197	WCHGP	H&G Produce Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233198	WCR15	RES-15 Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233199	WCR16	RES-16 Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233200	WCBRE	BREMCO Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233201	WCRE2	RES-2 Grab Water Sample March 2011 Semiannual Assess. Monitoring Event
6233202	WCTB-	Trip Blank Water Sample March 2011 Semiannual Assess. Monitoring Event

Acct #11200 Grp # 1237939 Sample # 6233196 - 202

CHAIN OF CUSTODY RECORD

3-7-2011

Laboratory: Lancaster Laboratories, 2425 New Holland Pike, Lancaster, PA, 17605-2425/ Barbara Weyandt, Manager/ (717) 656-2300

Client: Watauga County, NC Attn: Mr. J.V. Potter Address: 842 West King Street?/Courthouse, Suite 1 Boone, NC 28607 Phone: (828) 264-5305 Fax: 0 Fax: 0	Consultant: Draper Aden Associates Attn: Janel C. Frazier Address: 2206 South Main Street Blacksburg, Virginia 24060 Phone: (540) 552-0444 Fax: (540) 552-0291	Sample Site: Watauga County Landfill Location: Watauga County, NC Event: March 2011 Semiannual Assess. Monitoring Event DAA JN: 8520-39 Lab JN:	Project Specific (PS) or Batch (B) QC: Sample Collection for Project Complete? YES Carrier: Tracking Number:

Box 1: Matrix		Box 2: Preservative		Box 3: Filtered/Unfiltered	Box 4: Sample Type	Invoice
SW Surface Water	T Trip Blank	A HCL	E NaOH	F Filtered	G Grab	Copy to Consultant: YES
GW Groundwater	E Equipment Blank	B HNO_3	F ZnAc	U Unfiltered	C Composite	Bill: CLIENT OTHER
L Leachate	P Product	C H_2SO_4	G Other (Specify)	Box 6: Sample Container Type		Preserved and shipped on ice: YES
S Soil	O Other	D $Na_2S_2O_3$	H None	P Plastic V VOA AG Amber Glass CG Clear Glass		

Box 4 - Sample Type					G							
Box 3 - Filtered/Unfiltered					U							
Required pH of Sample					<2							
Box 2 - Preservative					A							
Box 6 - Sample Container Type					3-40ml V							
Sample ID	Date: 2011	Time	Box 1: Matrix	Number of Bottles	Volatiles - 624.2							
RES-1	3/17	1055	GW	3	X				2239 Hwy 421 S. (Bolick)			Well reference # 1
H & G Produce	3/17	0945	GW	3	X				230 Cabbage Row (Holler & Greene)			Well reference # 6
RES-15	3/17	1010	GW	3	X				2711 Hwy 421 S (Greer)			Well reference # 15
RES-16	3/17	1000	GW	3	X				2737 Hwy 421 S (Williamson)			Well reference # 16
BREMCO	3/17	1110	GW	3	X				2491 Hwy 421 S. (Bremco)			Well reference # 5. (Use Hydrasleeve for collection)
RES-2	3/17	1040	GW	3	X				2347 Hwy. 421 S. (Bolick Rental)			Well Reference # 2
TRIP BLANK	3/15		T	3	X							No time provided by lab - CJB 3/17/11

GENERAL NOTES:

1. Level 1 Deliverables.
2. Report quantitation limit, and estimated results "J" flag.
3. NC Drinking Water certification okay through 7/31/2011.
4. Note NC Certification (DW) on lab results.
5. Hydrasleeve collection depth, for BREMCO well #5:

Clients Special Instructions: See General Notes.

Received by lab in Good Condition ____ Yes ____ No Custody Seal Intact ____ Yes ____ No Temperature upon arrival ____ Received on Ice ____ Yes ____ No

Describe problems, if any:

Sampler Name (Print): Chris Branscome	Date: 3/15/11	#1 Relinquished by (Signature): Chris Branscome	Date: 3/17/11	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 17:00	Company Name: Draper Aden Assoc	Time: 17:00	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/15/11	#1 Received by (Signature):	Date:	#2 Received by (Signature): Gary Hulet	Date: 3/18/11	30 DYS ORG/8 MTHS INORG
Sampler Signature: Dale Slaughter	Time: 1700	Company Name:	Time:	Company Name: LLI	Time: 925	

\\draperaden.net\DAA\Projects\ADMIN\DIVISIONS\ENVIR\Templates\WRURG ETEAM TEMP\Field Events\Watauga\2005-Compu\Chain\COC - Copy\MW's Sull & Rep .XLS

SL KW 3/7/11

JAC 3-7-2011

1/2

524.2 Analyte list DLR 3.8.2001

524.2	Volatile Organics					
	Dichlorodifluoromethane					
	Chloromethane		0.5	ug/L	08/16/01	Jdn
	Vinyl chloride		0.5	ug/L	08/16/01	Jdn
	Bromomethane		0.5	ug/L	08/16/01	Jdn
	Chloroethane		0.5	ug/L	08/16/01	Jdn
	Trichlorofluoromethane		0.5	ug/L	08/16/01	Jdn
	1,1-Dichloroethene		0.5	ug/L	08/16/01	Jdn
	Methylene chloride		0.5	ug/L	08/16/01	Jdn
	trans-1,2-Dichloroethene		0.5	ug/L	08/16/01	Jdn
	1,1-Dichloroethane		0.5	ug/L	08/16/01	Jdn
	2,2-Dichloropropane		0.5	ug/L	08/16/01	Jdn
	cis-1,2-Dichloroethene		0.5	ug/L	08/16/01	Jdn
	Bromochloromethane		0.5	ug/L	08/16/01	Jdn
	Chloroform		0.5	ug/L	08/16/01	Jdn
	1,1,1-Trichloroethane		0.5	ug/L	08/16/01	Jdn
	1,1-Dichloropropene		0.5	ug/L	08/16/01	Jdn
	Carbon tetrachloride		0.5	ug/L	08/16/01	Jdn
	Benzene		0.5	ug/L	08/16/01	Jdn
	1,2-Dichloroethane		0.5	ug/L	08/16/01	Jdn
	Trichloroethene		0.5	ug/L	08/16/01	Jdn
	1,2-Dichloropropane		0.5	ug/L	08/16/01	Jdn
	Bromodichloromethane		0.5	ug/L	08/16/01	Jdn
	Dibromomethane		0.5	ug/L	08/16/01	Jdn
	cis-1,3-Dichloropropene		0.5	ug/L	08/16/01	Jdn
	Toluene		0.5	ug/L	08/16/01	Jdn
	trans-1,3-Dichloropropene		0.5	ug/L	08/16/01	Jdn
	1,1,2-Trichloroethane		0.5	ug/L	08/16/01	Jdn
	Tetrachloroethene		0.5	ug/L	08/16/01	Jdn
	1,3-Dichloropropane		0.5	ug/L	08/16/01	Jdn
	Dibromochloromethane		0.5	ug/L	08/16/01	Jdn
	1,2-Dibromoethane (EDB)		0.5	ug/L	08/16/01	Jdn
	Chlorobenzene		0.5	ug/L	08/16/01	Jdn
	1,1,1,2-Tetrachloroethane		0.5	ug/L	08/16/01	Jdn
	Ethylbenzene		0.5	ug/L	08/16/01	Jdn
	m&p-Xylenes		0.5	ug/L	08/16/01	Jdn
	Xylenes (total)		0.5	ug/L	08/16/01	Jdn
	o-Xylene		0.5	ug/L	08/16/01	Jdn
	Styrene		0.5	ug/L	08/16/01	Jdn
	Bromoform		0.5	ug/L	08/16/01	Jdn
	Isopropylbenzene		0.5	ug/L	08/16/01	Jdn
	1,1,2,2-Tetrachloroethane		0.5	ug/L	08/16/01	Jdn
	Bromobenzene		0.5	ug/L	08/16/01	Jdn
	1,2,3-Trichloropropane		0.5	ug/L	08/16/01	Jdn
	n-Propylbenzene		0.5	ug/L	08/16/01	Jdn
	2-Chlorotoluene		0.5	ug/L	08/16/01	Jdn
	1,3,5-Trimethylbenzene		0.5	ug/L	08/16/01	Jdn
	4-Chlorotoluene		0.5	ug/L	08/16/01	Jdn
	tert-Butylbenzene		0.5	ug/L	08/16/01	Jdn

* In Description = Dry Wt.

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To JLR
Northeast Lancaster
Sample: 524.2
DLR 3-7-01

	1,2,4-Trimethylbenzene		0.5	ug/L	08/16/01	Jdn
	sec-Butylbenzene		0.5	ug/L	08/16/01	Jdn
	1,3-Dichlorobenzene		0.5	ug/L	08/16/01	Jdn
	p-Isopropyltoluene		0.5	ug/L	08/16/01	Jdn
	1,4-Dichlorobenzene		0.5	ug/L	08/16/01	Jdn
	n-Butylbenzene		0.5	ug/L	08/16/01	Jdn
	1,2-Dichlorobenzene		0.5	ug/L	08/16/01	Jdn
	1,2-Dibromo-3-chloropropane		0.5	ug/L	08/16/01	Jdn
	1,2,4-Trichlorobenzene		0.5	ug/L	08/16/01	Jdn
	Hexachlorobutadiene		0.5	ug/L	08/16/01	Jdn
	Naphthalene		0.5	ug/L	08/16/01	Jdn
	1,2,3-Trichlorobenzene		0.5	ug/L	08/16/01	Jdn

* In Description = Dry Wt.

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3/8/2001
JLR

2/2

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Environmental Sample Administration
Receipt Documentation Log

Client/Project: Draper Aden

Date of Receipt: 3/18/11

Time of Receipt: 925

Source Code: 60-1

Shipping Container Sealed: (YES) NO

Custody Seal Present * : (YES) NO

* Custody seal was intact unless otherwise noted in the discrepancy section

Package: (Chilled) Not Chilled

Temperature of Shipping Containers							
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments
1	9493	1.9°C	TB	WI	Y	B	
2							
3							
4							
5							
6							

Number of Trip Blanks received NOT listed on chain of custody 0

Paperwork Discrepancy/Unpacking Problems

-Received only 2 Trip Blanks

Unpacker Signature/Emp#: [illegible] 2316 **Date/Time:** 3/18/11 935

Issued by Dept. 6042 Management

2174.06

Lancaster Laboratories
2425 New Holland Pike • Lancaster, PA 17601

GC/MS Volatiles pH Log

Batch: G110821AA

LLI#	pH	Date Checked	Initials/ Employee #	Comments
6233196	<2	3/23/2011	JML 1693	39A
6233197	<2	3/23/2011	JML 1693	39A
6233198	<2	3/23/2011	JML 1693	39B
6233199	<2	3/23/2011	JML 1693	39A
6233200	<2	3/23/2011	JML 1693	39A
6233200	<2	3/23/2011	JML 1693	39B
6233201	<2	3/23/2011	JML 1693	39A
6233202	<2	3/23/2011	JML 1693	38A

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03648 EPA 524.2 Master

The water sample is purged and the volatile compounds are collected on a sorbent trap that is subsequently desorbed onto the GC/MS system for chromatographic and mass spectral analysis.

Reference: USEPA Method 524.2, Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry

Lancaster Laboratories

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

March 28, 2011

Project: Watauga County, NC

Submittal Date: 03/18/2011
Group Number: 1237939
SDG: WAT13
State of Sample Origin: NC

Client Sample Description	Lancaster Labs (LLI) #
RES-1 Grab Water Sample	6233196
H&G Produce Grab Water Sample	6233197
RES-15 Grab Water Sample	6233198
RES-16 Grab Water Sample	6233199
BREMCO Grab Water Sample	6233200
RES-2 Grab Water Sample	6233201
Trip Blank Water Sample	6233202

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Draper Aden Associates, Inc.	Attn: Janet Frazier
1 COPY TO	Data Package Group	

Questions? Contact your Client Services Representative
Barbara A Weyandt at (717) 656-2300 Ext. 1576

Respectfully Submitted,

Robin C. Runkle
Senior Specialist

WAT13 0007

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
- C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value -- The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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MAR 13 2000

Analysis Report

Lancaster Laboratories

Sample Description: RES-1 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233196
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:55 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCRE1 SDG#: WAT13-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

WAT13 0889

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Sample Description: RES-1 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233196
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:55 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCRE1 SDG#: WAT13-01

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 10:11	Jason M Long	1

WAT13 5018

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: H&G Produce Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233197
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 09:45 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCHGP SDG#: WAT13-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.1 J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

WAT13 0011

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Sample Description: H&G Produce Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233197
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 09:45 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCHGP SDG#: WAT13-02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 10:33	Jason M Long	1

WAT13 0812

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Lancaster Laboratories

Sample Description: RES-15 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233198
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:10 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCR15 SDG#: WAT13-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	0.2 J	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

WAT13 0813

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Sample Description: RES-15 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233198
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:10 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCR15 SDG#: WAT13-03

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 13:07	Jason M Long	1

WAT13 8814

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: RES-16 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233199
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:00 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCR16 SDG#: WAT13-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		**ug/l**	**ug/l**	**ug/l**	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	0.2 J	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.2 J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

WAT13 0815

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster Laboratories

Sample Description: RES-16 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233199
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:00 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCR16 SDG#: WAT13-04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 11:16	Jason M Long	1

WAT13 0016

Lancaster Laboratories, Inc.
2425 New Holland Pike
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*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: BREMCO Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233200
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 11:10 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCBRE SDG#: WAT13-05

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	EPA 524.2		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	0.3	J	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	0.2	J	0.1	0.5	1
03648	Chloroethane	75-00-3	6.3		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	1.8		0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	0.7		0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	22		0.5	2.5	5
03648	1,2-Dichloroethane	107-06-2	0.2	J	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	1.1		0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	4.4		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	0.2	J	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	0.2	J	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	0.9		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	0.3	J	0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1

WAT13 9817

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
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Lancaster Laboratories

Sample Description: BREMCO Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233200
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 11:10 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCBRE SDG#: WAT13-05

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	0.7	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	0.2 J	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 11:38	Jason M Long	1
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 12:45	Jason M Long	5

WAT13 0018

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: RES-2 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233201
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:40 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCRE2 SDG#: WAT13-06

CAT No.	Analysis Name	CAS Number	As Received Result		As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l		ug/l	ug/l	
03648	Benzene	71-43-2	N.D.		0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.		0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.		0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.		0.1	0.5	1
03648	Bromoform	75-25-2	N.D.		0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.		0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.		0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.		0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.		0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.		0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.		0.1	0.5	1
03648	Chloroethane	75-00-3	0.8		0.2	0.5	1
03648	Chloroform	67-66-3	N.D.		0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.		0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.		0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.		0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.		0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.		0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.		0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.		0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.		0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.		0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	0.2	J	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	0.3	J	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	6.6		0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.		0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	0.2	J	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	1		0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.		0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.		0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.		0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.		0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.		0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.		0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.		0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.		0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.		0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.		0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.		0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.		0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.		0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.		0.1	0.5	1
03648	Styrene	100-42-5	N.D.		0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.		0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.		0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.		0.1	0.5	1
03648	Toluene	108-88-3	N.D.		0.1	0.5	1
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.		0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.		0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.		0.1	0.5	1

WAT13 6619

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Sample Description: RES-2 Grab Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233201
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/17/2011 10:40 by CB

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCRE2 SDG#: WAT13-06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	0.2 J	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	G110821AA	03/23/2011 12:00	Jason M Long	1

WAT13 0020

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

*=This limit was used in the evaluation of the final result

Analysis Report

Lancaster Laboratories

Sample Description: Trip Blank Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233202
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/15/2011

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCTB- SDG#: WAT13-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	Benzene	71-43-2	N.D.	0.1	0.5	1
03648	Bromobenzene	108-86-1	N.D.	0.1	0.5	1
03648	Bromochloromethane	74-97-5	N.D.	0.1	0.5	1
03648	Bromodichloromethane	75-27-4	N.D.	0.1	0.5	1
03648	Bromoform	75-25-2	N.D.	0.2	0.5	1
03648	Bromomethane	74-83-9	N.D.	0.1	0.5	1
03648	n-Butylbenzene	104-51-8	N.D.	0.2	0.5	1
03648	sec-Butylbenzene	135-98-8	N.D.	0.1	0.5	1
03648	tert-Butylbenzene	98-06-6	N.D.	0.1	0.5	1
03648	Carbon Tetrachloride	56-23-5	N.D.	0.1	0.5	1
03648	Chlorobenzene	108-90-7	N.D.	0.1	0.5	1
03648	Chloroethane	75-00-3	N.D.	0.2	0.5	1
03648	Chloroform	67-66-3	N.D.	0.1	0.5	1
03648	Chloromethane	74-87-3	N.D.	0.2	0.5	1
03648	2-Chlorotoluene	95-49-8	N.D.	0.1	0.5	1
03648	4-Chlorotoluene	106-43-4	N.D.	0.2	0.5	1
03648	1,2-Dibromo-3-chloropropane	96-12-8	N.D.	0.4	0.5	1
03648	Dibromochloromethane	124-48-1	N.D.	0.1	0.5	1
03648	1,2-Dibromoethane	106-93-4	N.D.	0.1	0.5	1
03648	Dibromomethane	74-95-3	N.D.	0.1	0.5	1
03648	1,2-Dichlorobenzene	95-50-1	N.D.	0.1	0.5	1
03648	1,3-Dichlorobenzene	541-73-1	N.D.	0.1	0.5	1
03648	1,4-Dichlorobenzene	106-46-7	N.D.	0.1	0.5	1
03648	Dichlorodifluoromethane	75-71-8	N.D.	0.2	0.5	1
03648	1,1-Dichloroethane	75-34-3	N.D.	0.1	0.5	1
03648	1,2-Dichloroethane	107-06-2	N.D.	0.1	0.5	1
03648	1,1-Dichloroethene	75-35-4	N.D.	0.1	0.5	1
03648	cis-1,2-Dichloroethene	156-59-2	N.D.	0.1	0.5	1
03648	trans-1,2-Dichloroethene	156-60-5	N.D.	0.1	0.5	1
03648	1,2-Dichloropropane	78-87-5	N.D.	0.1	0.5	1
03648	1,3-Dichloropropane	142-28-9	N.D.	0.1	0.5	1
03648	2,2-Dichloropropane	594-20-7	N.D.	0.2	0.5	1
03648	1,1-Dichloropropene	563-58-6	N.D.	0.1	0.5	1
03648	cis-1,3-Dichloropropene	10061-01-5	N.D.	0.1	0.5	1
03648	trans-1,3-Dichloropropene	10061-02-6	N.D.	0.1	0.5	1
03648	Ethylbenzene	100-41-4	N.D.	0.1	0.5	1
03648	Hexachlorobutadiene	87-68-3	N.D.	0.2	0.5	1
03648	Isopropylbenzene	98-82-8	N.D.	0.1	0.5	1
03648	p-Isopropyltoluene	99-87-6	N.D.	0.1	0.5	1
03648	Methylene Chloride	75-09-2	N.D.	0.3	0.5	1
03648	Naphthalene	91-20-3	N.D.	0.2	0.5	1
03648	n-Propylbenzene	103-65-1	N.D.	0.1	0.5	1
03648	Styrene	100-42-5	N.D.	0.1	0.5	1
03648	1,1,1,2-Tetrachloroethane	630-20-6	N.D.	0.1	0.5	1
03648	1,1,2,2-Tetrachloroethane	79-34-5	N.D.	0.1	0.5	1
03648	Tetrachloroethene	127-18-4	N.D.	0.1	0.5	1
03648	Toluene	108-88-3	N.D.	0.1	0.5	WAT13 0021
03648	1,2,3-Trichlorobenzene	87-61-6	N.D.	0.2	0.5	1
03648	1,2,4-Trichlorobenzene	120-82-1	N.D.	0.2	0.5	1
03648	1,1,1-Trichloroethane	71-55-6	N.D.	0.1	0.5	1

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
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Lancaster Laboratories

Sample Description: Trip Blank Water Sample
March 2011 Semiannual Assess. Monitoring Event
Watauga County, NC

LLI Sample # PW 6233202
LLI Group # 1237939
Account # 11200

Project Name: Watauga County, NC

Collected: 03/15/2011

Submitted: 03/18/2011 09:25
Reported: 03/28/2011 16:29

Draper Aden Associates, Inc.
2206 South Main Street
Blacksburg VA 24060

WCTB- SDG#: WAT13-07TB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit*	As Received Limit of Quantitation	Dilution Factor
GC/MS Volatiles	**EPA 524.2**		ug/l	ug/l	ug/l	
03648	1,1,2-Trichloroethane	79-00-5	N.D.	0.1	0.5	1
03648	Trichloroethene	79-01-6	N.D.	0.1	0.5	1
03648	Trichlorofluoromethane	75-69-4	N.D.	0.2	0.5	1
03648	1,2,3-Trichloropropane	96-18-4	N.D.	0.2	0.5	1
03648	1,2,4-Trimethylbenzene	95-63-6	N.D.	0.1	0.5	1
03648	1,3,5-Trimethylbenzene	108-67-8	N.D.	0.1	0.5	1
03648	Vinyl Chloride	75-01-4	N.D.	0.1	0.5	1
03648	m+p-Xylene	179601-23-1	N.D.	0.2	0.5	1
03648	o-Xylene	95-47-6	N.D.	0.1	0.5	1
03648	Xylene (Total)	1330-20-7	N.D.	0.2	0.5	1

General Sample Comments

The laboratory is NC DHHS certified for all SDWA regulated compounds reported (Lab ID 42705). North Carolina Department of Health and Human Services does not offer certification for unregulated compounds.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
03648	EPA 524.2 Master	EPA 524.2	1	GI10821AA	03/23/2011 12:23	Jason M Long	1

WAT13 00022

*=This limit was used in the evaluation of the final result

Lancaster Laboratories, Inc.
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Volatiles by GC/MS Data

Case Narrative Conformance/Nonconformance Summary

WAT13 8824

Lancaster Laboratories

CLIENT: Draper Aden Associates, Inc.
SDG: WAT13

GC/MS Volatiles
Fraction: Volatiles by GC/MS

EPA 524.2 Master

Sample #	Client ID	Matrix Liquid	Matrix Solid	Comments
6233196	RES-1	X		
6233197	H&G	X		
6233198	RES-15	X		
6233199	RES-16	X		
6233200	BREMCO	X		DF1, DF5
6233201	RES-2	X		
6233202	Trip	X		Trip Blank

See QC Reference List for Associated Batch QC Samples

SAMPLE PREPARATION:

No problems were encountered with the preparation of the samples.

ANALYSIS:

Dilutions are listed in the table above.

No problems were encountered with the analysis of the samples.

QUALITY CONTROL AND NONCONFORMANCE SUMMARY:

Site specific matrix QC samples were not submitted for this SDG. The batch matrix QC was performed on samples from another project. Therefore the matrix effects would not be relevant and matrix QC is not provided in the data package. Laboratory spike data (LCS) are provided.

Please note that US EPA Methods for organic compounds do not require action by the laboratory based on out-of-specification MS/MSD results.

For preparation/method blank results > LOQ, corrective action is not required if the sample is ND or > 10 times the blank concentration, unless otherwise specified in the method or by the client.

Surrogate recoveries that are outside the QC window are confirmed unless attributed to a dilution or otherwise noted.

WAT13 0025

Lancaster Laboratories

CLIENT: Draper Aden Associates, Inc.
SDG: WAT13

GC/MS Volatiles
Fraction: Volatiles by GC/MS

DATA INTERPRETATION:

No further interpretation is necessary for the data submitted.

Abbreviation Key

UNSPK = Unspiked (for MS/MSD)	LOQ = Limit of Quantitation
MS = Matrix Spike	MDL = Method Detection Limit
MSD = Matrix Spike Duplicate	ND = Not Detected
BKG = Background (for Duplicate)	J = Estimated Value
D = Duplicate (DUP)	E= out of calibration range
LCS = Lab Control Sample	
LCSD = Lab Control Sample Duplicate	* = Out of Specification

Narrative Reviewed and Approved 4/8/11 by
(Date)

WAT13 0026

Quality Control and Calibration Summary Forms

MAT13 6027

Lancaster Laboratories

Quality Control Reference List
GC/MS Volatiles

CLIENT: Draper Aden Associates, Inc.
SDG: WAT13

Fraction: Volatiles by GC/MS

Analysis	Batch Number	Sample Number	Analysis Date
EPA 524.2 Master	G110821AA	VBLKG16	03/23/2011 09:26:00
		LFBG16	03/23/2011 09:48:00
		6233196	03/23/2011 10:11:00
		6233197	03/23/2011 10:33:00
		6233198	03/23/2011 13:07:00
		6233199	03/23/2011 11:16:00
		6233200	03/23/2011 11:38:00
		6233200	03/23/2011 12:45:00
		6233201	03/23/2011 12:00:00
		6233202	03/23/2011 12:23:00

WAT13 6820

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: WAT13
Matrix: LIQUID

Fraction: Volatiles by GC/MS

G110821A / VBLKG16 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
Dichlorodifluoromethane	03/23/11	N.D.	ug/l	0.2	0.5
Chloromethane	03/23/11	N.D.	ug/l	0.2	0.5
Vinyl Chloride	03/23/11	N.D.	ug/l	0.1	0.5
Bromomethane	03/23/11	N.D.	ug/l	0.1	0.5
Chloroethane	03/23/11	N.D.	ug/l	0.2	0.5
Trichlorofluoromethane	03/23/11	N.D.	ug/l	0.2	0.5
Benzene	03/23/11	N.D.	ug/l	0.1	0.5
Bromobenzene	03/23/11	N.D.	ug/l	0.1	0.5
Bromochloromethane	03/23/11	N.D.	ug/l	0.1	0.5
Bromodichloromethane	03/23/11	N.D.	ug/l	0.1	0.5
Bromoform	03/23/11	N.D.	ug/l	0.2	0.5
n-Butylbenzene	03/23/11	N.D.	ug/l	0.2	0.5
sec-Butylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
tert-Butylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
Carbon Tetrachloride	03/23/11	N.D.	ug/l	0.1	0.5
Chlorobenzene	03/23/11	N.D.	ug/l	0.1	0.5
Chloroform	03/23/11	N.D.	ug/l	0.1	0.5
2-Chlorotoluene	03/23/11	N.D.	ug/l	0.1	0.5
4-Chlorotoluene	03/23/11	N.D.	ug/l	0.2	0.5
1,2-Dibromo-3-chloropropane	03/23/11	N.D.	ug/l	0.4	0.5
Dibromochloromethane	03/23/11	N.D.	ug/l	0.1	0.5
1,2-Dibromoethane	03/23/11	N.D.	ug/l	0.1	0.5
Dibromomethane	03/23/11	N.D.	ug/l	0.1	0.5
1,2-Dichlorobenzene	03/23/11	N.D.	ug/l	0.1	0.5
1,3-Dichlorobenzene	03/23/11	N.D.	ug/l	0.1	0.5
1,4-Dichlorobenzene	03/23/11	N.D.	ug/l	0.1	0.5
1,1-Dichloroethane	03/23/11	N.D.	ug/l	0.1	0.5
1,2-Dichloroethane	03/23/11	N.D.	ug/l	0.1	0.5
1,1-Dichloroethene	03/23/11	N.D.	ug/l	0.1	0.5
cis-1,2-Dichloroethene	03/23/11	N.D.	ug/l	0.1	0.5
trans-1,2-Dichloroethene	03/23/11	N.D.	ug/l	0.1	0.5
1,2-Dichloropropane	03/23/11	N.D.	ug/l	0.1	0.5
1,3-Dichloropropane	03/23/11	N.D.	ug/l	0.1	0.5
2,2-Dichloropropane	03/23/11	N.D.	ug/l	0.2	0.5
1,1-Dichloropropene	03/23/11	N.D.	ug/l	0.1	0.5
cis-1,3-Dichloropropene	03/23/11	N.D.	ug/l	0.1	0.5
trans-1,3-Dichloropropene	03/23/11	N.D.	ug/l	0.1	0.5
Ethylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
Hexachlorobutadiene	03/23/11	N.D.	ug/l	0.2	0.5
Isopropylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
p-Isopropyltoluene	03/23/11	N.D.	ug/l	0.1	0.5
Methylene Chloride	03/23/11	N.D.	ug/l	0.3	0.5
Naphthalene	03/23/11	N.D.	ug/l	0.2	0.5
n-Propylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
Styrene	03/23/11	N.D.	ug/l	0.1	0.5

Lancaster Laboratories

Quality Control Summary
Method Blank
GC/MS Volatiles
SDG: WAT13
Matrix: LIQUID

Fraction: Volatiles by GC/MS

G110821A / VBLKG16 Analyte	Analysis Date	Blank Results	Units	MDL	LOQ
1,1,1,2-Tetrachloroethane	03/23/11	N.D.	ug/l	0.1	0.5
1,1,2,2-Tetrachloroethane	03/23/11	N.D.	ug/l	0.1	0.5
Tetrachloroethene	03/23/11	N.D.	ug/l	0.1	0.5
Toluene	03/23/11	N.D.	ug/l	0.1	0.5
1,2,3-Trichlorobenzene	03/23/11	N.D.	ug/l	0.2	0.5
1,2,4-Trichlorobenzene	03/23/11	N.D.	ug/l	0.2	0.5
1,1,1-Trichloroethane	03/23/11	N.D.	ug/l	0.1	0.5
1,1,2-Trichloroethane	03/23/11	N.D.	ug/l	0.1	0.5
Trichloroethene	03/23/11	N.D.	ug/l	0.1	0.5
1,2,3-Trichloropropane	03/23/11	N.D.	ug/l	0.2	0.5
1,2,4-Trimethylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
1,3,5-Trimethylbenzene	03/23/11	N.D.	ug/l	0.1	0.5
m+p-Xylene	03/23/11	N.D.	ug/l	0.2	0.5
o-Xylene	03/23/11	N.D.	ug/l	0.1	0.5
Xylene (Total)	03/23/11	N.D.	ug/l	0.2	0.5

WAT13 8838

Lancaster Laboratories

Quality Control Summary
Surrogates
GC/MS Volatiles
SDG: WAT13
Matrix: LIQUID

Fraction: Volatiles by GC/MS

G110821AA	4-Bromofluorobenzene		1,2-Dichlorobenzene-d4	
Sample	% Recovery	Limits	% Recovery	Limits
6233196	102	80 - 120	101	80 - 120
6233197	102	80 - 120	102	80 - 120
6233198	101	80 - 120	102	80 - 120
6233199	102	80 - 120	102	80 - 120
6233200	102	80 - 120	103	80 - 120
6233201	102	80 - 120	103	80 - 120
6233202	102	80 - 120	102	80 - 120
LFBG16	105	80 - 120	104	80 - 120
VBLKG16	102	80 - 120	102	80 - 120

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the case narrative.

Surrogate	Spike Added (ug/l)
1,2-Dichlorobenzene-d4	5
4-Bromofluorobenzene	5

WAT13 0031

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: WAT13
Matrix: LIQUID

GC/MS Volatiles
Fraction: Volatiles by GC/MS

LCS: LFBG16	Batch: **G110821AA** (Sample number(s): 6233196-6233202)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Dichlorodifluoromethane	2	1.98		99		70-130		
Chloromethane	2	1.96		98		70-130		
Vinyl Chloride	2	2.13		107		70-130		
Bromomethane	2	2.25		112		70-130		
Chloroethane	2	2.15		107		70-130		
Trichlorofluoromethane	2	2.43		122		70-130		
1,1,1,2-Tetrachloroethane	5	5.22		104		70-130		
1,1,1-Trichloroethane	5	5.52		110		70-130		
1,1,2,2-Tetrachloroethane	5	4.7		94		70-130		
1,1,2-Trichloroethane	5	4.72		94		70-130		
1,1-Dichloroethane	5	4.98		100		70-130		
1,1-Dichloroethene	5	5.23		105		70-130		
1,1-Dichloropropene	5	5.08		102		70-130		
1,2,3-Trichlorobenzene	5	4.86		97		70-130		
1,2,3-Trichloropropane	5	5.21		104		70-130		
1,2,4-Trichlorobenzene	5	4.95		99		70-130		
1,2,4-Trimethylbenzene	5	5.23		105		70-130		
1,2-Dibromo-3-chloropropane	5	4.68		94		70-130		
1,2-Dibromoethane	5	4.99		100		70-130		
1,2-Dichlorobenzene	5	5.08		102		70-130		
1,2-Dichloroethane	5	5.43		109		70-130		
1,2-Dichloropropane	5	4.62		93		70-130		
1,3,5-Trimethylbenzene	5	5.23		105		70-130		
1,3-Dichlorobenzene	5	5.13		103		70-130		
1,3-Dichloropropane	5	4.89		98		70-130		
1,4-Dichlorobenzene	5	5.17		103		70-130		
2,2-Dichloropropane	5	5.43		109		70-130		
2-Chlorotoluene	5	5.1		102		70-130		
4-Chlorotoluene	5	5.12		102		70-130		
Benzene	5	4.9		98		70-130		
Bromobenzene	5	5.16		103		70-130		
Bromochloromethane	5	5.33		107		70-130		
Bromodichloromethane	5	5.11		102		70-130		
Bromoform	5	4.28		86		70-130		
Carbon Tetrachloride	5	5.65		113		70-130		
Chlorobenzene	5	4.92		98		70-130		
Chloroform	5	5.19		104		70-130		
cis-1,2-Dichloroethene	5	5		100		70-130		
cis-1,3-Dichloropropene	5	4.39		88		70-130		
Dibromochloromethane	5	4.89		98		70-130		
Dibromomethane	5	5.07		101		70-130		
Ethylbenzene	5	5.04		101		70-130		

WAT13 18632

Lancaster Laboratories

Quality Control Summary
Laboratory Control Standard (LCS)
Laboratory Control Standard Duplicate(LCSD)

SDG: WAT13
Matrix: LIQUID

GC/MS Volatiles
Fraction: Volatiles by GC/MS

LCS: LFBG16	Batch: **G110821AA** (Sample number(s): 6233196-6233202)							
Analyte	**Spike Added ug/l**	**LCS Conc ug/l**	**LCSD Conc ug/l**	**LCS %Rec**	**LCSD %Rec**	**%Rec Limits**	**%RPD**	**%RPD Limits**
Hexachlorobutadiene	5	5.33		107		70-130		
Isopropylbenzene	5	5.08		102		70-130		
m+p-Xylene	10	10.08		101		70-130		
Methylene Chloride	5	4.99		100		70-130		
Naphthalene	5	4.65		93		70-130		
n-Butylbenzene	5	5.1		102		70-130		
n-Propylbenzene	5	5.06		101		70-130		
o-Xylene	5	4.98		100		70-130		
p-Isopropyltoluene	5	5.31		106		70-130		
sec-Butylbenzene	5	5.08		102		70-130		
Styrene	5	4.94		99		70-130		
tert-Butylbenzene	5	5.07		101		70-130		
Tetrachloroethene	5	5.33		107		70-130		
Toluene	5	4.92		98		70-130		
trans-1,2-Dichloroethene	5	5.2		104		70-130		
trans-1,3-Dichloropropene	5	4.5		90		70-130		
Trichloroethene	5	5.12		102		70-130		
Xylene (Total)	15	15.06		100		70-130		

WAT13 0033

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_WAT13___

Lab File ID: gf07t02.d BFB Injection Date: 02/07/11

Instrument ID: HP16334 BFB Injection Time: 14:01

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.48
75	30.0 - 80.0% of mass 95	51.73
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	7.45
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	91.07
175	5.0 - 9.0% of mass 174	5.19 (5.69)1
176	Greater than 95.0%, but less than 101.0% of mass 174	88.46 (97.13)1
177	5.0 - 9.0% of mass 176	6.43 (7.27)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD25	gf07i01.d	02/07/11	14:21
02	VSTD10	gf07i02.d	02/07/11	14:43
03	VSTD5	gf07i03.d	02/07/11	15:05
04	VSTD.5	gf07i05.d	02/07/11	15:49
05	LFBG68	gf07l01.d	02/07/11	16:11
06	VBLKG68	gf07b01.d	02/07/11	16:33
07	3MDL#1 - MDL0.25	gf07m21.d	02/07/11	19:48
08	3MDL#2 - MDL0.25	gf07m22.d	02/07/11	20:10
09	3MDL#3 - MDL0.25	gf07m23.d	02/07/11	20:32
10	3MDL#4 - MDL0.25	gf07m24.d	02/07/11	20:53
11	3MDL#5 - MDL0.25	gf07m25.d	02/07/11	21:15
12	3MDL#6 - MDL0.25	gf07m26.d	02/07/11	21:37
13	3MDL#9 - MDL0.25	gf07m27.d	02/07/11	21:58

WAT13 0834

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.: WAT13

Lab File ID: gm23t01.d BFB Injection Date: 03/23/11

Instrument ID: HP16334 BFB Injection Time: 08:57

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.83
75	30.0 - 80.0% of mass 95	55.25
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	5.88
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	90.26
175	5.0 - 9.0% of mass 174	6.41 (7.11)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.87 (97.35)1
177	5.0 - 9.0% of mass 176	5.92 (6.73)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD10	gm23c01.d	03/23/11	09:05
02	VBLKG16	gm23b01.d	03/23/11	09:26
03	LFBG16	gm23l01.d	03/23/11	09:48
04	6233196	gm23s01.d	03/23/11	10:11
05	6233197	gm23s02.d	03/23/11	10:33
06	6233199	gm23s04.d	03/23/11	11:16
07	6233200	gm23s05.d	03/23/11	11:38
08	6233201	gm23s06.d	03/23/11	12:00
09	6233202	gm23s07.d	03/23/11	12:23
10	6233200DL	gm23s08.d	03/23/11	12:45
11	6233198	gm23s09.d	03/23/11	13:07
12	VBLKG17	gm23b11.d	03/23/11	13:29
13	LFBG17	gm23l11.d	03/23/11	13:51
14	6235131	gm23s11.d	03/23/11	14:16
15	6235132	gm23s12.d	03/23/11	14:38
16	6235133	gm23s13.d	03/23/11	15:00
17	6235134	gm23s14.d	03/23/11	15:23
18	6235135	gm23s15.d	03/23/11	15:45
19	6235136	gm23s16.d	03/23/11	16:07
20	6235137	gm23s17.d	03/23/11	16:29
21	6235138	gm23s18.d	03/23/11	16:51
22	6235139	gm23s19.d	03/23/11	17:13

WAT13 8835

FORM V VOA

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_WAT13___

Lab File ID: gm23t01.d BFB Injection Date: 03/23/11

Instrument ID: HP16334 BFB Injection Time: 08:57

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.83
75	30.0 - 80.0% of mass 95	55.25
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	5.88
173	Less than 2.0% of mass 174	0.00 (0.00)1
174	Greater than 50.0% of mass 95	90.26
175	5.0 - 9.0% of mass 174	6.41 (7.11)1
176	Greater than 95.0%, but less than 101.0% of mass 174	87.87 (97.35)1
177	5.0 - 9.0% of mass 176	5.92 (6.73)2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
23	6235140	gm23s20.d	03/23/11	17:35
24	6235141	gm23s21.d	03/23/11	17:57
25	6235142	gm23s22.d	03/23/11	18:19
26	6235143	gm23s23.d	03/23/11	18:41
27	6235145	gm23s25.d	03/23/11	19:25
28	6235146	gm23s26.d	03/23/11	19:47
29	6235147	gm23s27.d	03/23/11	20:09
30	6235148	gm23s28.d	03/23/11	20:32
31	6235149	gm23s29.d	03/23/11	20:54

WAT13 0036

FORM V VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date(s): 02/07/11 02/07/11

Heated Purge: (Y/N) N Calibration Time(s): 14:21 15:49

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 0.5 gf07i05.d RRF 5 = gf07i03.d
RRF 10= gf07i02.d RRF 25= gf07i01.d RRF =

COMPOUND	RRF 0.5	RRF 5	RRF 10	RRF 25	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
Dichlorodifluoromethane	0.5595	0.5352	0.5338	0.5284		0.5392	3	AVG
Chloromethane	0.4972	0.4375	0.4302	0.4311		0.4490	7	AVG
Vinyl Chloride	0.4326	0.4082	0.4033	0.4082		0.4131	3	AVG
Bromomethane	0.2955	0.2644	0.2575	0.2547		0.2680	7	AVG
Chloroethane	0.2452	0.2227	0.2162	0.2174		0.2254	6	AVG
Dichlorofluoromethane	0.5648	0.5110	0.5206	0.5152		0.5279	5	AVG
Trichlorofluoromethane	0.6152	0.5735	0.5926	0.5900		0.5928	3	AVG
Ethyl Ether	0.1486	0.1283	0.1280	0.1340		0.1347	7	AVG
Acrolein	0.0165	0.0160	0.0158	0.0169		0.0163	3	AVG
1,1-Dichloroethene	0.2832	0.2633	0.2602	0.2642		0.2677	4	AVG
Freon 113	0.2943	0.2923	0.2930	0.2880		0.2919	1	AVG
Acetone	0.0071	0.0058	0.0059	0.0062		0.0062	10	AVG
Methyl Iodide	0.5177	0.5089	0.5023	0.5131		0.5105	1	AVG
Carbon Disulfide	0.7227	0.7572	0.7318	0.7497		0.7404	2	AVG
Allyl Chloride	0.3524	0.3184	0.3139	0.3264		0.3278	5	AVG
Methylene Chloride	0.2908	0.2589	0.2573	0.2644		0.2679	6	AVG
t-Butyl Alcohol	0.0072	0.0063	0.0063	0.0068		0.0067	6	AVG
Acrylonitrile	0.0330	0.0298	0.0296	0.0316		0.0310	5	AVG
trans-1,2-Dichloroethene	0.3279	0.3154	0.3101	0.3125		0.3165	3	AVG
Methyl Tertiary Butyl Ether	0.4219	0.4067	0.3964	0.4204		0.4113	3	AVG
1,1-Dichloroethane	0.6001	0.5663	0.5629	0.5671		0.5741	3	AVG
di-Isopropyl Ether	0.2286	0.2181	0.2156	0.2233		0.2214	3	AVG
Ethyl t-Butyl Ether	0.6419	0.6069	0.6045	0.6282		0.6204	3	AVG
cis-1,2-Dichloroethene	0.3295	0.3160	0.3097	0.3150		0.3176	3	AVG
2,2-Dichloropropane	0.5428	0.5311	0.5301	0.5300		0.5335	1	AVG
2-Butanone	0.0341	0.0328	0.0328	0.0357		0.0339	4	AVG
Propionitrile	0.0121	0.0111	0.0110	0.0118		0.0115	4	AVG
Methyl Acrylate	0.0935	0.0901	0.0893	0.0962		0.0923	3	AVG
Methacrylonitrile	0.0402	0.0379	0.0380	0.0401		0.0391	3	AVG
Bromochloromethane	0.1142	0.1064	0.1069	0.1087		0.1090	3	AVG
Tetrahydrofuran	0.0091	0.0089	0.0087	0.0094		0.0090	3	AVG
Chloroform	0.5811	0.5710	0.5595	0.5688		0.5701	2	AVG
1,1,1-Trichloroethane	0.5287	0.5246	0.5286	0.5305		0.5281	0	AVG
1-Chlorobutane	0.0324	0.0284	0.0299	0.0284		0.0298	6	AVG
Carbon Tetrachloride	0.4519	0.4778	0.4780	0.4794		0.4718	3	AVG
1,1-Dichloropropene	0.4769	0.4640	0.4629	0.4605		0.4661	2	AVG
Benzene	1.2573	1.2028	1.1930	1.1972		1.2126	2	AVG
1,2-Dichloroethane	0.2769	0.2675	0.2615	0.2701		0.2690	2	AVG
t-Amyl Methyl Ether	0.5005	0.4646	0.4670	0.4847		0.4792	4	AVG
Trichloroethene	0.3589	0.3467	0.3484	0.3448		0.3497	2	AVG
1,2-Dichloropropane	0.2961	0.2823	0.2770	0.2821		0.2844	3	AVG
Methyl Methacrylate	0.0700	0.0691	0.0699	0.0746		0.0709	3	AVG
Dibromomethane	0.1051	0.1010	0.0998	0.1053		0.1028	3	AVG
Bromodichloromethane	0.3140	0.3148	0.3174	0.3303		0.3192	2	AVG
2-Nitropropane	0.0009	0.0009	0.0009	0.0010		0.0009	6	AVG
Chloroacetonitrile	0.0048	0.0044	0.0044	0.0047		0.0046	5	AVG
cis-1,3-Dichloropropene	0.3463	0.3592	0.3584	0.3743		0.3596	3	AVG
4-Methyl-2-Pentanone	0.0326	0.0315	0.0314	0.0333		0.0322	3	AVG
1,1-Dichloropropanone	0.0017	0.0016	0.0016	0.0018		0.0017	5	AVG
Toluene	0.8026	0.7857	0.7855	0.7935		0.7918	1	AVG
trans-1,3-Dichloropropene	0.2698	0.2762	0.2761	0.2938		0.2790	4	AVG
Ethyl Methacrylate	0.1495	0.1476	0.1520	0.1602		0.1523	4	AVG

HAT10 0037

FORM VI VOA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date(s): 02/07/11 02/07/11

Heated Purge: (Y/N) N Calibration Time(s): 14:21 15:49

Matrix: (soil/water) WATER Level: (low/med) LOW GC Column: DB-624 ID: .25

LAB FILE ID: RRF 0.5 gf07i05.d RRF 5 = gf07i03.d
RRF 10= gf07i02.d RRF 25= gf07i01.d RRF =

COMPOUND	RRF 0.5	RRF 5	RRF 10	RRF 25	RRF	$\overline{RRF}$	% RSD	CAL. METHOD
1,1,2-Trichloroethane	0.1216	0.1123	0.1140	0.1177		0.1164	4	AVG
Tetrachloroethene	0.4360	0.4093	0.4172	0.4128		0.4188	3	AVG
1,3-Dichloropropane	0.2512	0.2368	0.2363	0.2453		0.2424	3	AVG
2-Hexanone	0.0273	0.0278	0.0281	0.0296		0.0282	3	AVG
Dibromochloromethane	0.1622	0.1770	0.1791	0.1913		0.1774	7	AVG
1,2-Dibromoethane	0.1311	0.1227	0.1218	0.1291		0.1262	4	AVG
Chlorobenzene	0.8399	0.8090	0.8162	0.8307		0.8240	2	AVG
1,1,1,2-Tetrachloroethane	0.2706	0.2726	0.2701	0.2811		0.2736	2	AVG
Ethylbenzene	0.4826	0.4896	0.4905	0.4937		0.4891	1	AVG
m+p-Xylene	0.5904	0.5971	0.5990	0.6102		0.5992	1	AVG
o-Xylene	0.5861	0.5635	0.5638	0.5730		0.5716	2	AVG
Styrene	0.7932	0.8347	0.8489	0.8869		0.8409	5	AVG
Xylene (Total)	0.5890	0.5859	0.5872	0.5978		0.5900	1	AVG
Bromoform	0.0865	0.0941	0.0928	0.1004		0.0935	6	AVG
Isopropylbenzene	0.4153	0.4213	0.4292	0.4268		0.4231	1	AVG
1,1,2,2-Tetrachloroethane	0.1328	0.1284	0.1264	0.1351		0.1307	3	AVG
Bromobenzene	0.3157	0.3077	0.3043	0.3137		0.3104	2	AVG
1,2,3-Trichloropropane	0.0412	0.0369	0.0379	0.0384		0.0386	5	AVG
trans-1,4-Dichloro-2-Butene	0.0299	0.0324	0.0329	0.0364		0.0329	8	AVG
n-Propylbenzene	0.4559	0.4492	0.4527	0.4567		0.4536	1	AVG
2-Chlorotoluene	0.3771	0.3658	0.3664	0.3687		0.3695	1	AVG
1,3,5-Trimethylbenzene	1.3498	1.3709	1.3835	1.3655		1.3674	1	AVG
4-Chlorotoluene	0.3629	0.3663	0.3637	0.3628		0.3639	0	AVG
tert-Butylbenzene	0.2887	0.3035	0.2963	0.3074		0.2990	3	AVG
Pentachloroethane	0.1878	0.1874	0.1904	0.2057		0.1928	4	AVG
1,2,4-Trimethylbenzene	1.3677	1.4028	1.4172	1.3982		1.3965	1	AVG
sec-Butylbenzene	0.3625	0.3657	0.3666	0.3704		0.3663	1	AVG
p-Isopropyltoluene	1.5711	1.6182	1.6360	1.4674		1.5732	5	AVG
1,3-Dichlorobenzene	0.7244	0.6952	0.6872	0.7130		0.7050	2	AVG
1,4-Dichlorobenzene	0.6825	0.6632	0.6572	0.6751		0.6695	2	AVG
n-Butylbenzene	0.8276	0.8339	0.8330	0.8435		0.8345	1	AVG
1,2-Dichlorobenzene	0.5910	0.5424	0.5408	0.5545		0.5572	4	AVG
Hexachloroethane	0.2376	0.2538	0.2546	0.2661		0.2530	5	AVG
1,2-Dibromo-3-Chloropropane	0.0257	0.0245	0.0247	0.0270		0.0255	4	AVG
Nitrobenzene	0.0044	0.0048	0.0051	0.0064		0.0052	17	AVG
1,2,4-Trichlorobenzene	0.4887	0.4516	0.4506	0.4630		0.4635	4	AVG
Hexachlorobutadiene	0.3786	0.3687	0.3737	0.3764		0.3743	1	AVG
Naphthalene	0.5099	0.4898	0.4899	0.5162		0.5014	3	AVG
1,2,3-Trichlorobenzene	0.3608	0.3279	0.3285	0.3345		0.3379	5	AVG
4-Bromofluorobenzene	0.3099	0.3007	0.2989	0.3085		0.3045	2	AVG
1,2-Dichlorobenzene-d4	0.3275	0.3208	0.3180	0.3338		0.3251	2	AVG

Average %RSD 3

MAT13 0838

FORM VI VOA

EPA Method 524
Internal/Surrogate Standard Area and Retention Time Summary

Initial Calibration Standards:

/chem2/HP16334.i/11feb07b.b/gf07i01.d VSTD025
/chem2/HP16334.i/11feb07b.b/gf07i02.d VSTD010
/chem2/HP16334.i/11feb07b.b/gf07i03.d VSTD005
/chem2/HP16334.i/11feb07b.b/gf07i05.d VSTD0.5

Area Summary

File ID:
==========

Internal/Surrogate Standard Name	gf07i01.d	gf07i02.d	gf07i03.d	gf07i05.d	Avg. Area	%RSD	In Spec
Fluorobenzene	1871467	1883473	1908091	1821455	1871122	2	Yes
4-Bromofluorobenzene	577399	562948	573693	564495	569634	1	Yes
1,2-Dichlorobenzene-d4	624777	599024	612112	596598	608128	2	Yes

%RSD of internal standard area is flagged out of spec if greater than 30.

RT Summary

File ID:
==========

Internal/Surrogate Standard Name	gf07i01.d	gf07i02.d	gf07i03.d	gf07i05.d	Avg. RT
Fluorobenzene	7.957	7.963	7.964	7.964	7.962
4-Bromofluorobenzene	12.328	12.328	12.329	12.329	12.329
1,2-Dichlorobenzene-d4	13.481	13.481	13.481	13.481	13.481

* indicates the retention time is greater than 30 seconds from the average RT.

Report generated on 02/08/2011 at 06:42

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: gf07101.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 02/07/11 at 16:11
Sample: LFBG68

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G110381AA

COMPOUND NAME	SPIKE LEVEL	LFB CONC UG/L	LFB REC %	Range LOWER-UPPER	INSPEC
Dichlorodifluoromethane	2.00	1.74	87	70-130	YES
Chloromethane	2.00	1.94	97	70-130	YES
Vinyl Chloride	2.00	1.94	97	70-130	YES
Bromomethane	2.00	1.98	99	70-130	YES
Chloroethane	2.00	1.99	100	70-130	YES
Dichlorofluoromethane	2.00	2.24	112	70-130	YES
Trichlorofluoromethane	2.00	1.95	98	70-130	YES
Ethyl Ether	5.00	4.74	95	70-130	YES
Acrolein	37.50	39.13	104	70-130	YES
1,1-Dichloroethene	5.00	5.19	104	70-130	YES
Freon 113	5.00	5.40	108	70-130	YES
Acetone	37.50	38.28	102	70-130	YES
Methyl Iodide	5.00	5.48	110	70-130	YES
Carbon Disulfide	5.00	5.78	116	70-130	YES
Allyl Chloride	5.00	5.19	104	70-130	YES
Methylene Chloride	5.00	5.06	101	70-130	YES
t-Butyl Alcohol	50.00	47.36	95	70-130	YES
Acrylonitrile	112.50	111.30	99	70-130	YES
trans-1,2-Dichloroethene	5.00	5.14	103	70-130	YES
Methyl Tertiary Butyl Ether	5.00	5.12	102	70-130	YES
1,1-Dichloroethane	5.00	5.01	100	70-130	YES
di-Isopropyl Ether	5.00	5.08	102	70-130	YES
Ethyl t-Butyl Ether	5.00	5.02	100	70-130	YES
cis-1,2-Dichloroethene	5.00	5.03	101	70-130	YES
2,2-Dichloropropane	5.00	5.07	101	70-130	YES
2-Butanone	37.50	38.56	103	70-130	YES
Propionitrile	100.00	100.14	100	70-130	YES
Methyl Acrylate	25.00	25.19	101	70-130	YES
Methacrylonitrile	37.50	37.71	101	70-130	YES
Bromochloromethane	5.00	5.03	101	70-130	YES
Tetrahydrofuran	45.00	45.84	102	70-130	YES
Chloroform	5.00	5.06	101	70-130	YES
1,1,1-Trichloroethane	5.00	5.00	100	70-130	YES
1-Chlorobutane	5.00	4.92	98	70-130	YES
Carbon Tetrachloride	5.00	5.10	102	70-130	YES
1,1-Dichloropropene	5.00	5.02	100	70-130	YES
Benzene	5.00	5.03	101	70-130	YES
1,2-Dichloroethane	5.00	4.94	99	70-130	YES
t-Amyl Methyl Ether	5.00	5.02	100	70-130	YES
Trichloroethene	5.00	4.92	98	70-130	YES
1,2-Dichloropropane	5.00	4.99	100	70-130	YES
Methyl Methacrylate	5.00	4.86	97	70-130	YES
Dibromomethane	5.00	5.06	101	70-130	YES
Bromodichloromethane	5.00	5.02	100	70-130	YES
2-Nitropropane	500.00	513.15	103	70-130	YES
Chloroacetonitrile	250.00	244.08	98	70-130	YES
cis-1,3-Dichloropropene	5.00	4.96	99	70-130	YES
4-Methyl-2-Pentanone	25.00	25.62	102	70-130	YES
1,1-Dichloropropanone	500.00	492.36	98	70-130	YES
Toluene	5.00	5.00	100	70-130	YES
trans-1,3-Dichloropropene	5.00	4.99	100	70-130	YES
Ethyl Methacrylate	5.00	5.14	103	70-130	YES
1,1,2-Trichloroethane	5.00	4.96	99	70-130	YES
Tetrachloroethene	5.00	4.93	99	70-130	YES
1,3-Dichloropropane	5.00	4.97	99	70-130	YES
2-Hexanone	25.00	25.14	101	70-130	YES
Dibromochloromethane	5.00	5.00	100	70-130	YES
1,2-Dibromoethane	5.00	4.98	100	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

_____ Ver. by MAT13 8848

Lancaster Laboratories, Inc.
GC/MS Volatiles Method 524.2 LFB Sample Summary

File: gf07l01.d
Inst: HP16334
Dilution Factor: 1.0

Injected: 02/07/11 at 16:11
Sample: LFBG68

Method: EPA 524.2 REV 4
Matrix/Level: WL
Batch: G110381AA

COMPOUND NAME	SPIKE LEVEL	LFB CONC UG/L	LFB REC %	Range LOWER-UPPER	INSPEC
Chlorobenzene	5.00	4.94	99	70-130	YES
1,1,1,2-Tetrachloroethane	5.00	5.00	100	70-130	YES
Ethylbenzene	5.00	5.02	100	70-130	YES
m+p-Xylene	10.00	10.03	100	70-130	YES
o-Xylene	5.00	4.92	98	70-130	YES
Styrene	5.00	5.02	100	70-130	YES
Xylene (Total)	15.00	14.95	100	70-130	YES
Bromoform	5.00	4.97	99	70-130	YES
Isopropylbenzene	5.00	5.00	100	70-130	YES
1,1,2,2-Tetrachloroethane	5.00	4.88	98	70-130	YES
Bromobenzene	5.00	5.08	102	70-130	YES
1,2,3-Trichloropropane	5.00	4.84	97	70-130	YES
trans-1,4-Dichloro-2-Butene	25.00	24.17	97	70-130	YES
n-Propylbenzene	5.00	4.96	99	70-130	YES
2-Chlorotoluene	5.00	4.97	99	70-130	YES
1,3,5-Trimethylbenzene	5.00	5.02	100	70-130	YES
4-Chlorotoluene	5.00	5.06	101	70-130	YES
tert-Butylbenzene	5.00	4.98	100	70-130	YES
Pentachloroethane	5.00	5.07	101	70-130	YES
1,2,4-Trimethylbenzene	5.00	5.01	100	70-130	YES
sec-Butylbenzene	5.00	4.93	99	70-130	YES
p-Isopropyltoluene	5.00	5.09	102	70-130	YES
1,3-Dichlorobenzene	5.00	4.86	97	70-130	YES
1,4-Dichlorobenzene	5.00	4.94	99	70-130	YES
n-Butylbenzene	5.00	4.95	99	70-130	YES
1,2-Dichlorobenzene	5.00	4.87	97	70-130	YES
Hexachloroethane	5.00	4.91	98	70-130	YES
1,2-Dibromo-3-Chloropropane	5.00	4.75	95	70-130	YES
Nitrobenzene	250.00	234.88	94	70-130	YES
1,2,4-Trichlorobenzene	5.00	4.88	98	70-130	YES
Hexachlorobutadiene	5.00	4.84	97	70-130	YES
Naphthalene	5.00	4.87	97	70-130	YES
1,2,3-Trichlorobenzene	5.00	4.84	97	70-130	YES

N/C = Could not calculate

Lab Chronicle: _____ Ent. by _____

_____ Ver. by _____

WAT13 8041

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/23/11 Time: 09:05

Lab File ID: gm23c01.d Init. Calib. Date(s): 02/07/2011 02/07/2011

COMPOUND	RRF	RRF10	%D	CALIB METH
Dichlorodifluoromethane	0.5392	0.5018	-7	AVG
Chloromethane	0.4490	0.3926	-13	AVG
Vinyl Chloride	0.4131	0.3879	-6	AVG
Bromomethane	0.2680	0.2675	0	AVG
Chloroethane	0.2254	0.2174	-4	AVG
Dichlorofluoromethane	0.5279	0.6432	22	AVG
Trichlorofluoromethane	0.5928	0.6542	10	AVG
Ethyl Ether	0.1347	0.1290	-4	AVG
Acrolein	0.0163	0.0146	-11	AVG
1,1-Dichloroethene	0.2677	0.2813	5	AVG
Freon 113	0.2919	0.3209	10	AVG
Acetone	0.0062	0.0060	-3	AVG
Methyl Iodide	0.5105	0.5478	7	AVG
Carbon Disulfide	0.7404	0.8569	16	AVG
Allyl Chloride	0.3278	0.3661	12	AVG
Methylene Chloride	0.2679	0.2696	1	AVG
t-Butyl Alcohol	0.0067	0.0071	6	AVG
Acrylonitrile	0.0310	0.0290	-7	AVG
trans-1,2-Dichloroethene	0.3165	0.3294	4	AVG
Methyl Tertiary Butyl Ether	0.4113	0.4308	5	AVG
1,1-Dichloroethane	0.5741	0.5818	1	AVG
di-Isopropyl Ether	0.2214	0.2194	-1	AVG
Ethyl t-Butyl Ether	0.6204	0.6386	3	AVG
cis-1,2-Dichloroethene	0.3176	0.3213	1	AVG
2,2-Dichloropropane	0.5335	0.5829	9	AVG
2-Butanone	0.0339	0.0338	0	AVG
Propionitrile	0.0115	0.0106	-8	AVG
Methyl Acrylate	0.0923	0.0881	-5	AVG
Methacrylonitrile	0.0391	0.0370	-5	AVG
Bromochloromethane	0.1090	0.1126	3	AVG
Tetrahydrofuran	0.0090	0.0089	-1	AVG
Chloroform	0.5701	0.6111	7	AVG
1,1,1-Trichloroethane	0.5281	0.5989	13	AVG
1-Chlorobutane	0.0298	0.0338	13	AVG
Carbon Tetrachloride	0.4718	0.5518	17	AVG
1,1-Dichloropropene	0.4661	0.4870	4	AVG
Benzene	1.2126	1.2060	-1	AVG
1,2-Dichloroethane	0.2690	0.2988	11	AVG
t-Amyl Methyl Ether	0.4792	0.4830	1	AVG
Trichloroethene	0.3497	0.3651	4	AVG

WAT13 0042

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/23/11 Time: 09:05

Lab File ID: gm23c01.d Init. Calib. Date(s): 02/07/2011 02/07/2011

COMPOUND	RRF	RRF10	%D	CALIB METH
1,2-Dichloropropane	0.2844	0.2716	-5	AVG
Methyl Methacrylate	0.0709	0.0670	-5	AVG
Dibromomethane	0.1028	0.1073	4	AVG
Bromodichloromethane	0.3192	0.3413	7	AVG
2-Nitropropane	0.0009	0.0011	26	AVG
Chloroacetonitrile	0.0046	0.0044	-5	AVG
cis-1,3-Dichloropropene	0.3596	0.3446	-4	AVG
4-Methyl-2-Pentanone	0.0322	0.0312	-3	AVG
1,1-Dichloropropanone	0.0017	0.0017	3	AVG
Toluene	0.7918	0.7993	1	AVG
trans-1,3-Dichloropropene	0.2790	0.2758	-1	AVG
Ethyl Methacrylate	0.1523	0.1528	0	AVG
1,1,2-Trichloroethane	0.1164	0.1144	-2	AVG
Tetrachloroethene	0.4188	0.4471	7	AVG
1,3-Dichloropropane	0.2424	0.2372	-2	AVG
2-Hexanone	0.0282	0.0277	-2	AVG
Dibromochloromethane	0.1774	0.1905	7	AVG
1,2-Dibromoethane	0.1262	0.1276	1	AVG
Chlorobenzene	0.8240	0.8387	2	AVG
1,1,1,2-Tetrachloroethane	0.2736	0.2962	8	AVG
Ethylbenzene	0.4891	0.5103	4	AVG
m+p-Xylene	0.5992	0.6255	4	AVG
o-Xylene	0.5716	0.5869	3	AVG
Styrene	0.8409	0.8647	3	AVG
Xylene (Total)	0.5900	0.6126	4	AVG
Bromoform	0.0935	0.0927	-1	AVG
Isopropylbenzene	0.4231	0.4483	6	AVG
1,1,2,2-Tetrachloroethane	0.1307	0.1329	2	AVG
Bromobenzene	0.3104	0.3317	7	AVG
1,2,3-Trichloropropane	0.0386	0.0412	7	AVG
trans-1,4-Dichloro-2-Butene	0.0329	0.0145	-56	AVG
n-Propylbenzene	0.4536	0.4807	6	AVG
2-Chlorotoluene	0.3695	0.3829	4	AVG
1,3,5-Trimethylbenzene	1.3674	1.4874	9	AVG
4-Chlorotoluene	0.3639	0.3859	6	AVG
tert-Butylbenzene	0.2990	0.3223	8	AVG
Pentachloroethane	0.1928	0.2061	7	AVG
1,2,4-Trimethylbenzene	1.3965	1.5348	10	AVG
sec-Butylbenzene	0.3663	0.3894	6	AVG
p-Isopropyltoluene	1.5732	1.7590	12	AVG

WAT13 8843

CALIBRATION CHECK REPORT

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_____

Instrument ID: HP16334 Calibration Date: 03/23/11 Time: 09:05

Lab File ID: gm23c01.d Init. Calib. Date(s): 02/07/2011 02/07/2011

COMPOUND	RRF	RRF10	%D	CALIB METH
1,3-Dichlorobenzene	0.7050	0.7598	8	AVG
1,4-Dichlorobenzene	0.6695	0.7195	7	AVG
n-Butylbenzene	0.8345	0.8896	7	AVG
1,2-Dichlorobenzene	0.5572	0.5940	7	AVG
Hexachloroethane	0.2530	0.2721	8	AVG
1,2-Dibromo-3-Chloropropane	0.0255	0.0262	3	AVG
Nitrobenzene	0.0052	0.0032	-38	AVG
1,2,4-Trichlorobenzene	0.4635	0.4795	3	AVG
Hexachlorobutadiene	0.3743	0.4139	11	AVG
Naphthalene	0.5014	0.4986	-1	AVG
1,2,3-Trichlorobenzene	0.3379	0.3378	0	AVG
4-Bromofluorobenzene	0.3045	0.3187	5	AVG
1,2-Dichlorobenzene-d4	0.3251	0.3384	4	AVG

Average %Difference 7

WAT13 8844

Lancaster Laboratories

GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm23c01.d Injected: 03/23/11 Method: EPA 524.2 REV 4

Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
Dichlorodifluoromethane	10.000	9.305	93	YES
Chloromethane	10.000	8.744	87	YES
Vinyl Chloride	10.000	9.391	94	YES
Bromomethane	10.000	9.980	100	YES
Chloroethane	10.000	9.646	96	YES
Dichlorofluoromethane	10.000	12.185	122	YES
Trichlorofluoromethane	10.000	11.035	110	YES
Ethyl Ether	10.000	9.577	96	YES
Acrolein	500.000	447.621	90	YES
1,1-Dichloroethene	10.000	10.505	105	YES
Freon 113	10.000	10.994	110	YES
Acetone	100.000	96.197	96	YES
Methyl Iodide	10.000	10.730	107	YES
Carbon Disulfide	10.000	11.573	116	YES
Allyl Chloride	10.000	11.169	112	YES
Methylene Chloride	10.000	10.065	101	YES
t-Butyl Alcohol	200.000	212.865	106	YES
Acrylonitrile	124.800	116.719	94	YES
trans-1,2-Dichloroethene	10.000	10.408	104	YES
Methyl Tertiary Butyl Ether	10.000	10.474	105	YES
1,1-Dichloroethane	10.000	10.134	101	YES
di-Isopropyl Ether	10.000	9.911	99	YES
Ethyl t-Butyl Ether	10.000	10.293	103	YES
cis-1,2-Dichloroethene	10.000	10.117	101	YES
2,2-Dichloropropane	10.000	10.927	109	YES
2-Butanone	100.000	99.924	100	YES
Propionitrile	200.000	183.628	92	YES
Methyl Acrylate	50.000	47.723	95	YES
Methacrylonitrile	100.000	94.792	95	YES
Bromochloromethane	10.000	10.325	103	YES
Tetrahydrofuran	140.000	137.914	99	YES
Chloroform	10.000	10.720	107	YES
1,1,1-Trichloroethane	10.000	11.341	113	YES
1-Chlorobutane	10.000	11.337	113	YES
Carbon Tetrachloride	10.000	11.697	117	YES
1,1-Dichloropropene	10.000	10.449	104	YES
Benzene	10.000	9.946	99	YES
1,2-Dichloroethane	10.000	11.108	111	YES
t-Amyl Methyl Ether	10.000	10.080	101	YES

MAT13 0845

Lancaster Laboratories

GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm23c01.d Injected: 03/23/11 Method: EPA 524.2 REV 4

Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
Trichloroethene	10.000	10.439	104	YES
1,2-Dichloropropane	10.000	9.550	95	YES
Methyl Methacrylate	10.000	9.451	95	YES
Dibromomethane	10.000	10.440	104	YES
Bromodichloromethane	10.000	10.692	107	YES
2-Nitropropane	1050.00	1266.92	121	YES
Chloroacetonitrile	500.000	477.814	96	YES
cis-1,3-Dichloropropene	10.000	9.584	96	YES
4-Methyl-2-Pentanone	100.000	96.857	97	YES
1,1-Dichloropropanone	1000.00	1038.54	104	YES
Toluene	10.000	10.095	101	YES
trans-1,3-Dichloropropene	10.000	9.887	99	YES
Ethyl Methacrylate	10.000	10.033	100	YES
1,1,2-Trichloroethane	10.000	9.823	98	YES
Tetrachloroethene	10.000	10.674	107	YES
1,3-Dichloropropane	10.000	9.785	98	YES
2-Hexanone	100.000	98.008	98	YES
Dibromochloromethane	10.000	10.741	107	YES
1,2-Dibromoethane	10.000	10.112	101	YES
Chlorobenzene	10.000	10.178	102	YES
1,1,1,2-Tetrachloroethane	10.000	10.825	108	YES
Ethylbenzene	10.000	10.433	104	YES
m+p-Xylene	20.000	20.878	104	YES
o-Xylene	10.000	10.269	103	YES
Styrene	10.000	10.283	103	YES
Xylene (Total)	30.000	31.146	104	YES
Bromoform	10.000	9.920	99	YES
Isopropylbenzene	10.000	10.594	106	YES
1,1,2,2-Tetrachloroethane	10.000	10.168	102	YES
Bromobenzene	10.000	10.686	107	YES
1,2,3-Trichloropropane	10.000	10.664	107	YES
trans-1,4-Dichloro-2-Butene	100.000	43.959	44	NO
n-Propylbenzene	10.000	10.597	106	YES
2-Chlorotoluene	10.000	10.362	104	YES
1,3,5-Trimethylbenzene	10.000	10.877	109	YES
4-Chlorotoluene	10.000	10.605	106	YES
tert-Butylbenzene	10.000	10.781	108	YES
Pentachloroethane	10.000	10.689	107	YES
1,2,4-Trimethylbenzene	10.000	10.991	110	YES

WAT13 0046

Lancaster Laboratories

GC/MS Volatiles Method 524.2 Check Sample Summary

File: gm23c01.d Injected: 03/23/11 Method: EPA 524.2 REV 4

Inst: HP16334 Sample: VSTD010 Matrix/level: W/L

COMPOUND NAME	CONCENTRATION SPIKED (UG/L)	CONCENTRATION MEASURED (UG/L)	% RECOVERY	IN SPEC
sec-Butylbenzene	10.000	10.630	106	YES
p-Isopropyltoluene	10.000	11.181	112	YES
1,3-Dichlorobenzene	10.000	10.778	108	YES
1,4-Dichlorobenzene	10.000	10.747	107	YES
n-Butylbenzene	10.000	10.660	107	YES
1,2-Dichlorobenzene	10.000	10.661	107	YES
Hexachloroethane	10.000	10.755	108	YES
1,2-Dibromo-3-Chloropropane	10.000	10.280	103	YES
Nitrobenzene	200.000	123.631	62	NO
1,2,4-Trichlorobenzene	10.000	10.346	103	YES
Hexachlorobutadiene	10.000	11.056	111	YES
Naphthalene	10.000	9.944	99	YES
1,2,3-Trichlorobenzene	10.000	9.996	100	YES
4-Bromofluorobenzene	5.000	5.234	105	YES
1,2-Dichlorobenzene-d4	5.000	5.205	104	YES

WAT13 0047

EPA Method 524
Continuing Calibration Internal/Surrogate Standard Check

Initial Calibration Standards:

/chem2/HP16334.i/11feb07b.b/gf07i01.d VSTD025
** /chem2/HP16334.i/11feb07b.b/gf07i02.d VSTD010
/chem2/HP16334.i/11feb07b.b/gf07i03.d VSTD005
/chem2/HP16334.i/11feb07b.b/gf07i05.d VSTD0.5

** File is Mid Level Calibration Standard used for comparison.

Current Continuing Calibration Standard:

/chem2/HP16334.i/11mar23a.b/gm23c01.d

RT Summary

Internal/Surrogate Standard Name	File ID: gm23c01.d	ICAL RT	In Spec
Fluorobenzene	7.958	7.963	Yes
4-Bromofluorobenzene	12.335	12.328	Yes
1,2-Dichlorobenzene-d4	13.487	13.481	Yes

A "No" indicates the retention time is greater than 30 seconds from the referenced ICAL standard.

Area Summary

Internal/Surrogate Standard Name	File ID: gm23c01.d	ICAL Area	Low Limit	High Limit	In Spec
Fluorobenzene	1979966	1883473	941736	3766946	Yes
4-Bromofluorobenzene	631078	562948	281474	1125896	Yes
1,2-Dichlorobenzene-d4	669941	599024	299512	1198048	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

_____

WAT13 0848

EPA Method 524
Continuing Calibration Internal/Surrogate Standard Check

Current Continuing Calibration Standard:

/chem2/HP16334.i/11mar23a.b/gm23c01.d

Previous Continuing Calibration Standard:

/chem2/HP16334.i/11feb11a.b/gf11c01.d

RT Summary

Internal/Surrogate Standard Name	File ID: gm23c01.d	Previous CCAL RT	In Spec
Fluorobenzene	7.958	7.964	Yes
4-Bromofluorobenzene	12.335	12.329	Yes
1,2-Dichlorobenzene-d4	13.487	13.481	Yes

A "No" indicates the retention time is greater than 30 seconds from the average RT.

Area Summary

Internal/Surrogate Standard Name	File ID: gm23c01.d	Previous CCAL Area	Low Limit	In Spec
Fluorobenzene	1979966	1670056	1169039	Yes
4-Bromofluorobenzene	631078	482659	337861	Yes
1,2-Dichlorobenzene-d4	669941	526474	368532	Yes

A "No" indicates the internal standard area is outside acceptable QC limits.

Comments: _____

_____

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_WAT13___

Lab File ID (Standard): gm23c01.d Date Analyzed: 03/23/11

Instrument ID: HP16334 Time Analyzed: 09:05

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(FBZ) AREA #	RT #
	12 HOUR STD	1979966	7.958
	UPPER LIMIT	3959932	8.458
	LOWER LIMIT	989983	7.458
	LAB SAMPLE ID		
01	VBLKG16	1954646	7.958
02	LFBG16	1925441	7.958
03	6233196	1920502	7.957
04	6233197	1882762	7.957
05	6233199	1881754	7.952
06	6233200	1851932	7.958
07	6233201	1866104	7.952
08	6233202	1858011	7.957
09	6233200DL	1803644	7.951
10	6233198	1814939	7.957
11	VBLKG17	1812757	7.952
12	LFBG17	1888394	7.958
13	6235131	1773150	7.958
14	6235132	1786689	7.958
15	6235133	1799068	7.958
16	6235134	1807344	7.951
17	6235135	1787882	7.957
18	6235136	1748267	7.951
19	6235137	1768261	7.951
20	6235138	1746120	7.958
21	6235139	1676511	7.951
22	6235140	1702718	7.958

IS1 (FBZ)=Fluorobenzene

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

WAT13 8858

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

FORM VIII VOA

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Lancaster Laboratories Contract:_____

Lab Code: LANCAS Case No.:_____ SAS No.:_____ SDG No.:_WAT13___

Lab File ID (Standard): gm23c01.d Date Analyzed: 03/23/11

Instrument ID: HP16334 Time Analyzed: 09:05

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) CAP

		IS1(FBZ) AREA #	RT #
	12 HOUR STD	1979966	7.958
	UPPER LIMIT	3959932	8.458
	LOWER LIMIT	989983	7.458
	LAB SAMPLE ID		
23	6235141	1683244	7.957
24	6235142	1655700	7.958
25	6235143	1687868	7.951
26	6235145	1660634	7.951
27	6235146	1687220	7.958
28	6235147	1628476	7.951
29	6235148	1643060	7.952
30	6235149	1588865	7.951

IS1 (FBZ)=Fluorobenzene

UPPER LIMIT = + 100%
of internal standard area.
LOWER LIMIT = - 50%
of internal standard area.

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

FORM VIII VOA

Sample Data

WAT13 0852

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Volatiles

SDG: WAT13

Fraction: Volatiles by GC/MS

03648: EPA 524.2 Master Analyte Name	Default MDL	Default LOQ	Units
Dichlorodifluoromethane	0.2	0.5	ug/l
Chloromethane	0.2	0.5	ug/l
Vinyl Chloride	0.1	0.5	ug/l
Bromomethane	0.1	0.5	ug/l
Chloroethane	0.2	0.5	ug/l
Trichlorofluoromethane	0.2	0.5	ug/l
1,1-Dichloroethene	0.1	0.5	ug/l
Methylene Chloride	0.3	0.5	ug/l
trans-1,2-Dichloroethene	0.1	0.5	ug/l
1,1-Dichloroethane	0.1	0.5	ug/l
cis-1,2-Dichloroethene	0.1	0.5	ug/l
2,2-Dichloropropane	0.2	0.5	ug/l
Bromochloromethane	0.1	0.5	ug/l
Chloroform	0.1	0.5	ug/l
1,1,1-Trichloroethane	0.1	0.5	ug/l
1,1-Dichloropropene	0.1	0.5	ug/l
Carbon Tetrachloride	0.1	0.5	ug/l
Benzene	0.1	0.5	ug/l
1,2-Dichloroethane	0.1	0.5	ug/l
Trichloroethene	0.1	0.5	ug/l
1,2-Dichloropropane	0.1	0.5	ug/l
Dibromomethane	0.1	0.5	ug/l
Bromodichloromethane	0.1	0.5	ug/l
cis-1,3-Dichloropropene	0.1	0.5	ug/l
Toluene	0.1	0.5	ug/l
trans-1,3-Dichloropropene	0.1	0.5	ug/l
1,1,2-Trichloroethane	0.1	0.5	ug/l
Tetrachloroethene	0.1	0.5	ug/l
1,3-Dichloropropane	0.1	0.5	ug/l
Dibromochloromethane	0.1	0.5	ug/l
1,2-Dibromoethane	0.1	0.5	ug/l
Chlorobenzene	0.1	0.5	ug/l
1,1,1,2-Tetrachloroethane	0.1	0.5	ug/l
Ethylbenzene	0.1	0.5	ug/l
m+p-Xylene	0.2	0.5	ug/l
o-Xylene	0.1	0.5	ug/l
Xylene (Total)	0.2	0.5	ug/l
Styrene	0.1	0.5	ug/l
Bromoform	0.2	0.5	ug/l
Isopropylbenzene	0.1	0.5	ug/l
1,1,2,2-Tetrachloroethane	0.1	0.5	ug/l
Bromobenzene	0.1	0.5	ug/l
1,2,3-Trichloropropane	0.2	0.5	ug/l
n-Propylbenzene	0.1	0.5	ug/l
2-Chlorotoluene	0.1	0.5	ug/l
1,3,5-Trimethylbenzene	0.1	0.5	ug/l
4-Chlorotoluene	0.2	0.5	ug/l

WAT13 0053

Lancaster Laboratories

LOQ/MDL Summary
GC/MS Volatiles

SDG: WAT13

Fraction: Volatiles by GC/MS

03648: EPA 524.2 Master Analyte Name	Default MDL	Default LOQ	Units
tert-Butylbenzene	0.1	0.5	ug/l
1,2,4-Trimethylbenzene	0.1	0.5	ug/l
sec-Butylbenzene	0.1	0.5	ug/l
p-Isopropyltoluene	0.1	0.5	ug/l
1,3-Dichlorobenzene	0.1	0.5	ug/l
1,4-Dichlorobenzene	0.1	0.5	ug/l
n-Butylbenzene	0.2	0.5	ug/l
1,2-Dichlorobenzene	0.1	0.5	ug/l
1,2-Dibromo-3-chloropropane	0.4	1.0	ug/l
1,2,4-Trichlorobenzene	0.2	0.5	ug/l
Hexachlorobutadiene	0.2	0.5	ug/l
Naphthalene	0.2	0.5	ug/l
1,2,3-Trichlorobenzene	0.2	0.5	ug/l

WAT13 0054

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233196

Data file: /chem2/HP16334.i/11mar23a.b/gm23s01.d
Data file Sample Info. Line: XXXXX;6233196;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jm101693

Injection date and time: **23-MAR-2011 10:11**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.957(0.000)	1045	96	1920502 (-3)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	596503	5.100	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.481(0.001)	152	627508	5.026	101%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)			Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)			Not Detected					0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)			Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
26) cis-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)			Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)			Not Detected					0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.2	0.5
67) m+p-Xylene	(1)			Not Detected					0.2	0.5
70) Xylene (Total)	(1)			Not Detected						

MAT13 8855

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jm101693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6233196

Data file: /chem2/HP16334.i/11mar23a.b/gm23s01.d
Data file Sample Info. Line: XXXXX;6233196;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Injection date and time: **23-MAR-2011 10:11**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

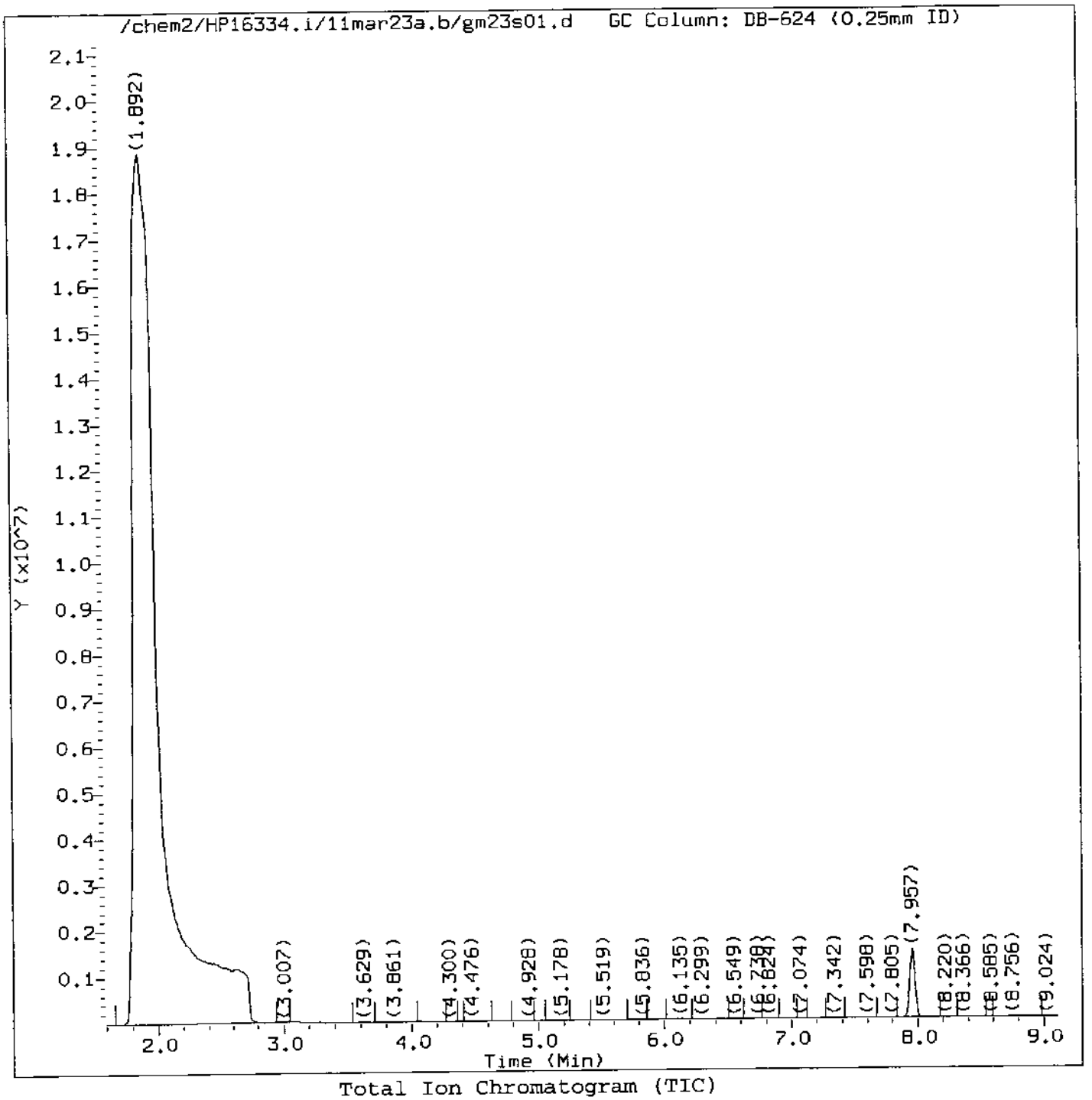
Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
68) o-Xylene	(1)				Not Detected					0.1	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)				Not Detected					0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693 MAT13 8856

Auditor: LCTDX Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s01.d
Injection date and time: 23-MAR-2011 10:11

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

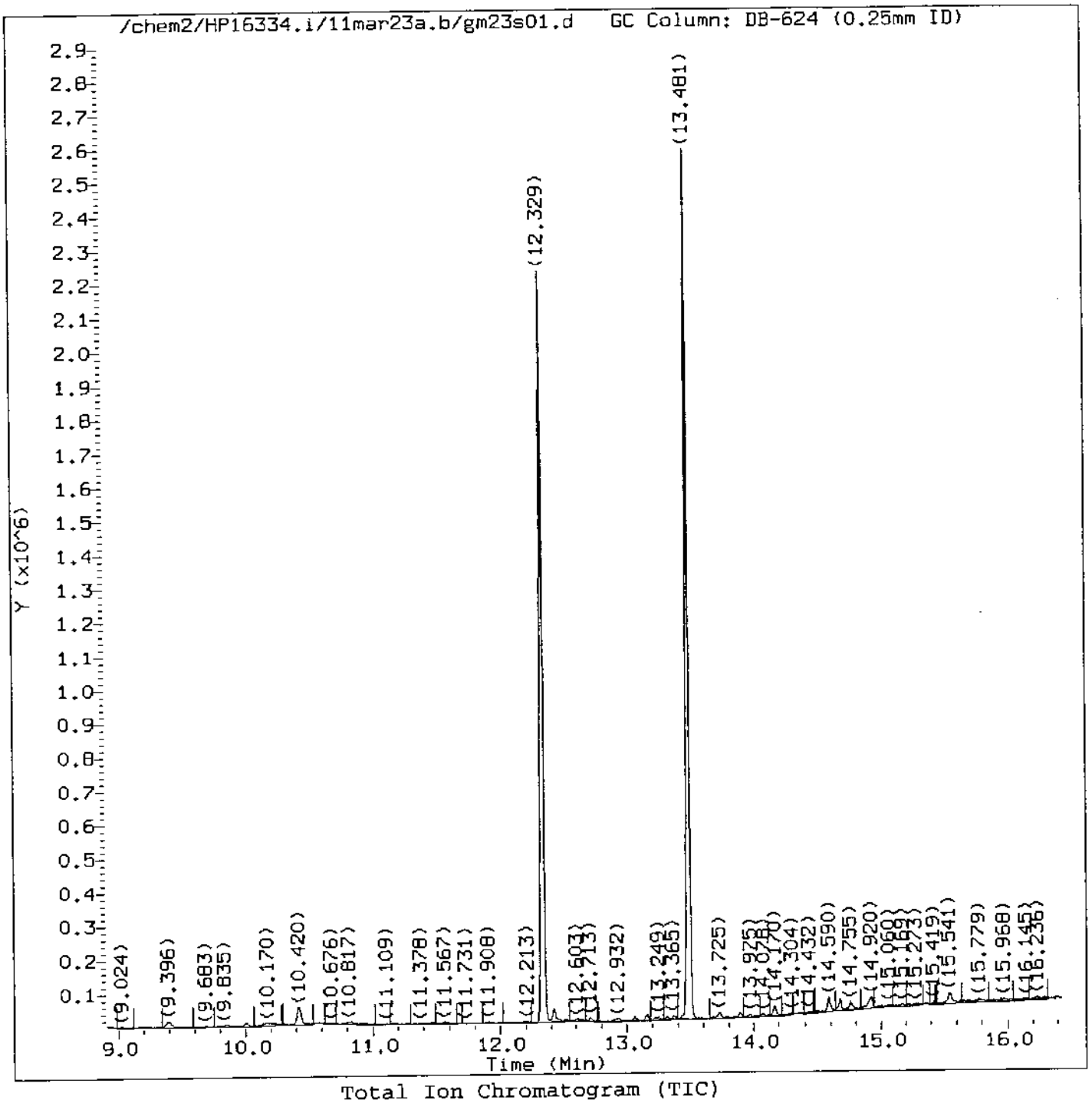
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233196

WAT13 0857

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s01.d
Injection date and time: 23-MAR-2011 10:11

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233196

WAT13 8858

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s01.d
Injection date and time: 23-MAR-2011 10:11

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233196

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
42)*Fluorobenzene	(1)	7.957	96	1920502	5.000
73)$4-Bromofluorobenzene	(1)	12.335	174	596503	5.100
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	627508	5.026

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 8859

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233197

Data file: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Data file Sample Info. Line: XXXXX;6233197;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Injection date and time: **23-MAR-2011 10:33**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.957(0.000)	1045	96	1882762 (-5)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	585373	5.105	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.487(0.000)	152	626589	5.119	102%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)			Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)			Not Detected					0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)			Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
26) cis-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Terrachloroethene	(1)	10.573(-0.000)	166	17826	0.113	0.11		J	0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.2	0.5
67) m+p-Xylene	(1)			Not Detected					0.1	0.5
68) o-Xylene	(1)			Not Detected					0.1	0.5

WATER 8260

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233197

Data file: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Data file Sample Info. Line: XXXXX;6233197;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Injection date and time: **23-MAR-2011 10:33**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

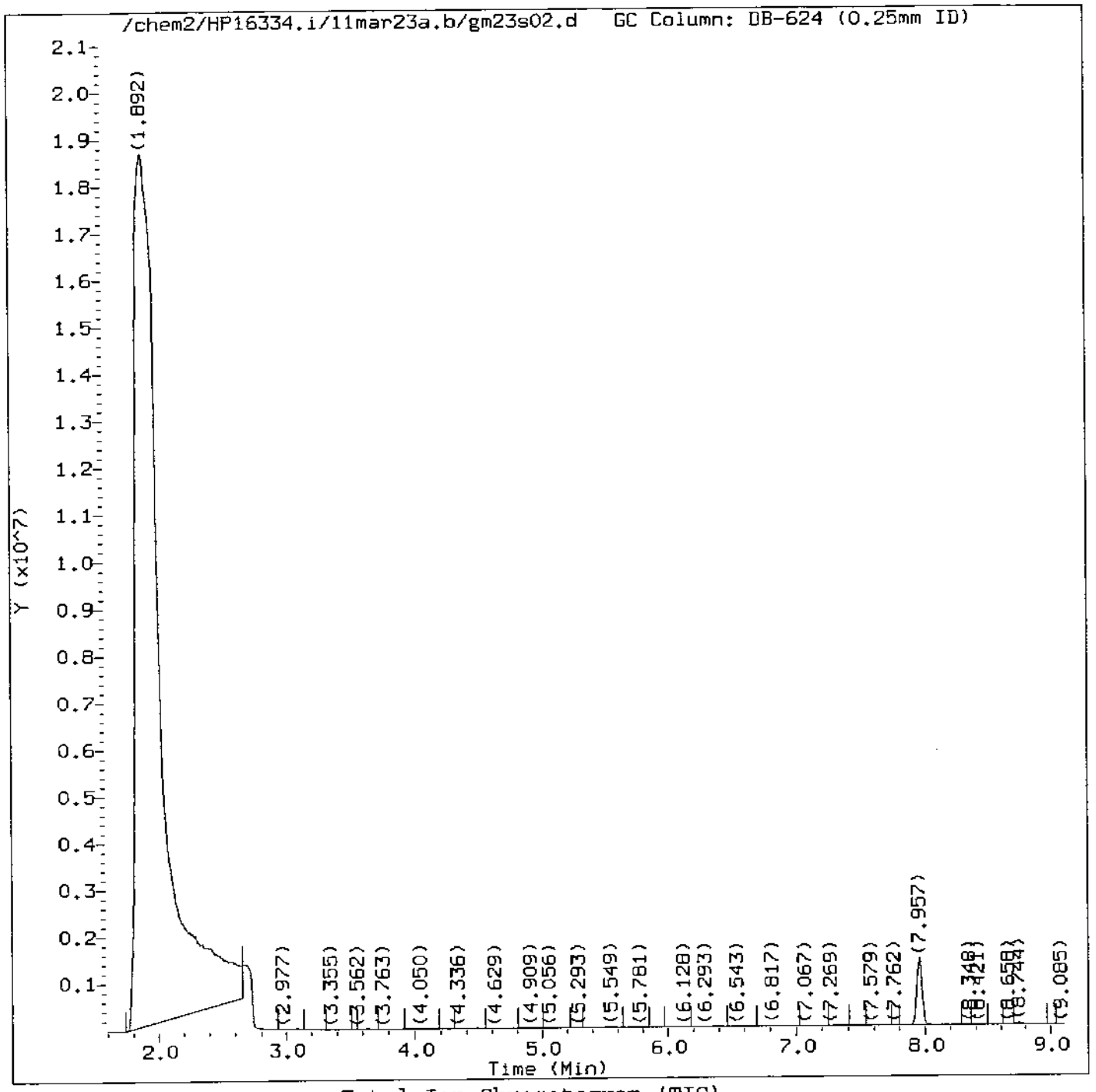
Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
70) Xylene (Total)	(1)				Not Detected					0.2	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)				Not Detected					0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693

Auditor: LCTDDR Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Injection date and time: 23-MAR-2011 10:33

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

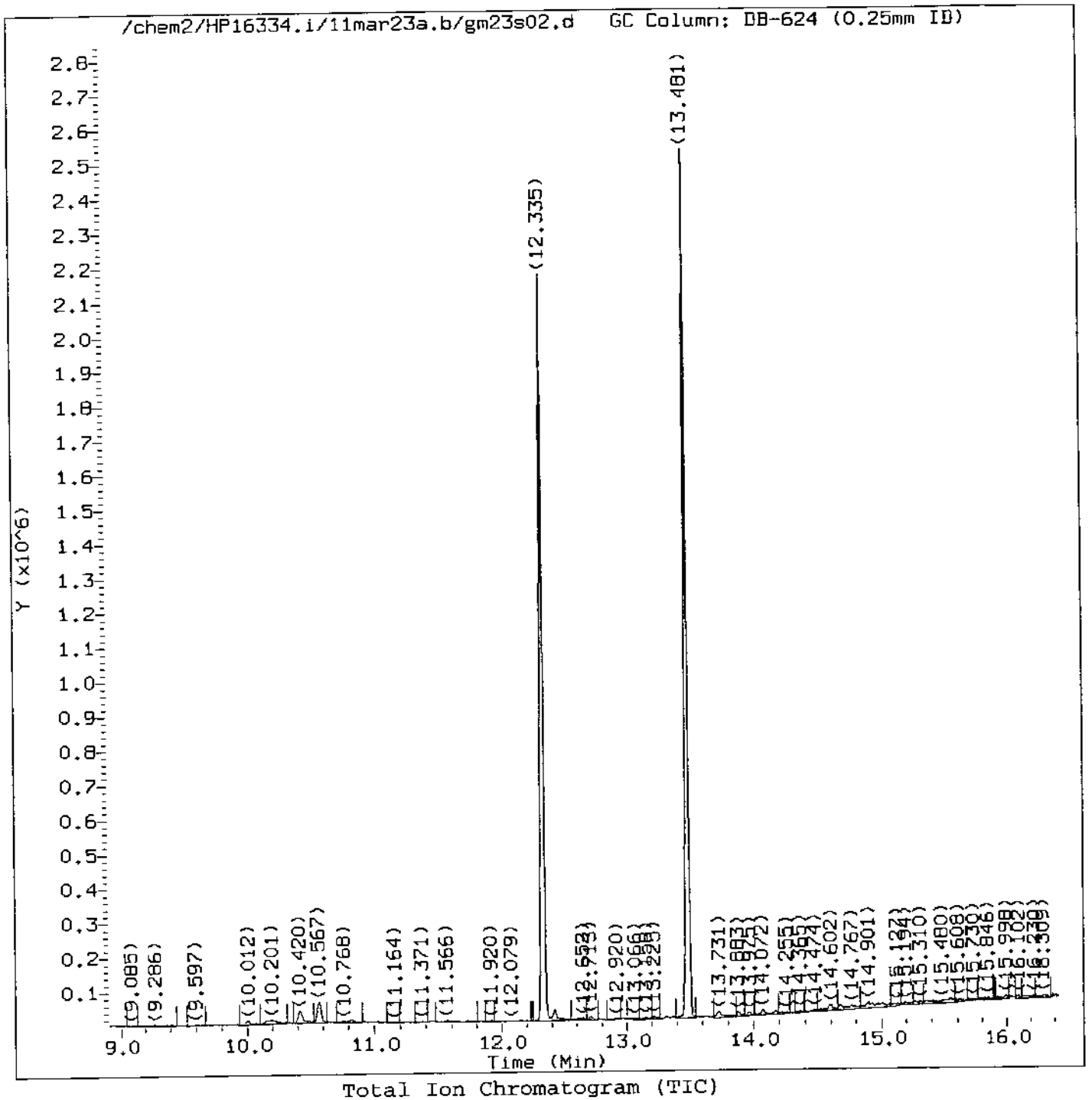
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233197

WAT13 8862

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Injection date and time: 23-MAR-2011 10:33

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233197

WAT13 0563

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Injection date and time: 23-MAR-2011 10:33

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233197

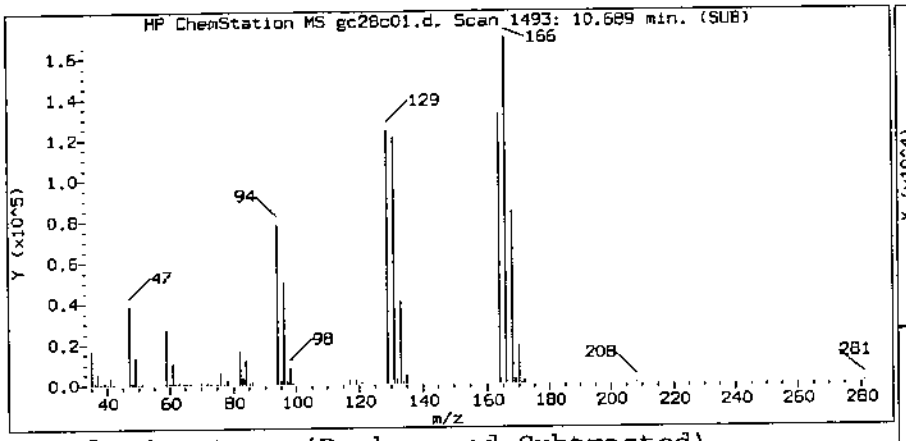
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
42)*Fluorobenzene	(1)	7.957	96	1882762	5.000
58) Tetrachloroethene	(1)	10.573	166	17826	0.113
73)$4-Bromofluorobenzene	(1)	12.335	174	585373	5.105
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	626589	5.119

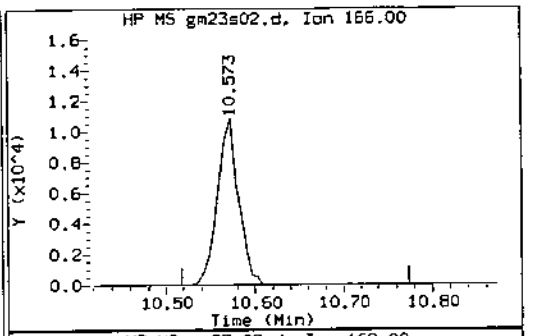
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 2564

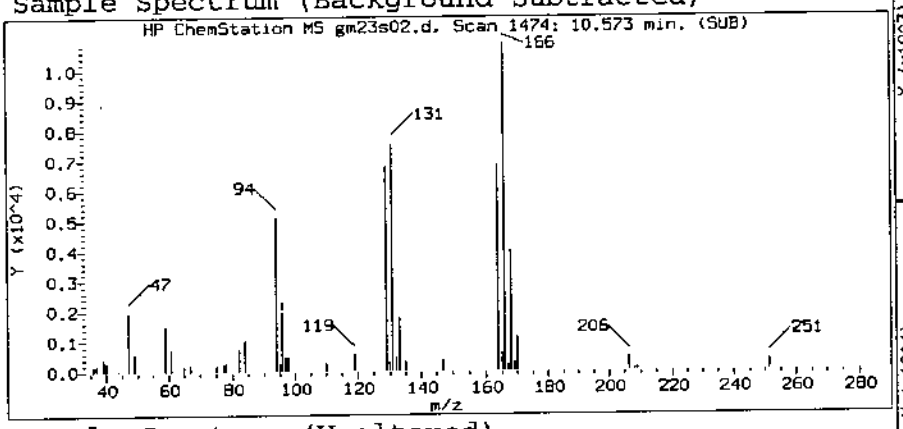
Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

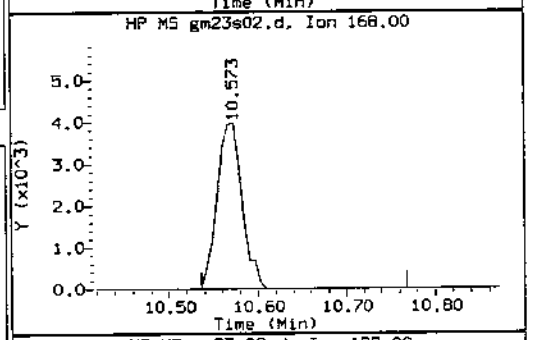
Reference Standard Spectrum for Tetrachloroethene

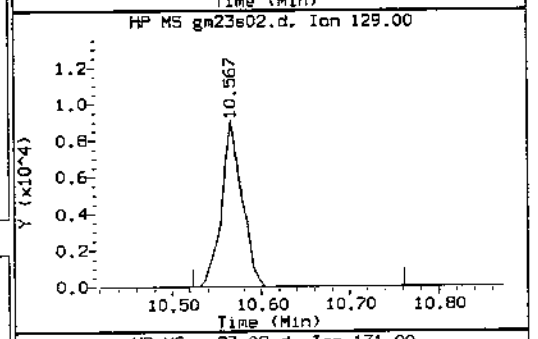




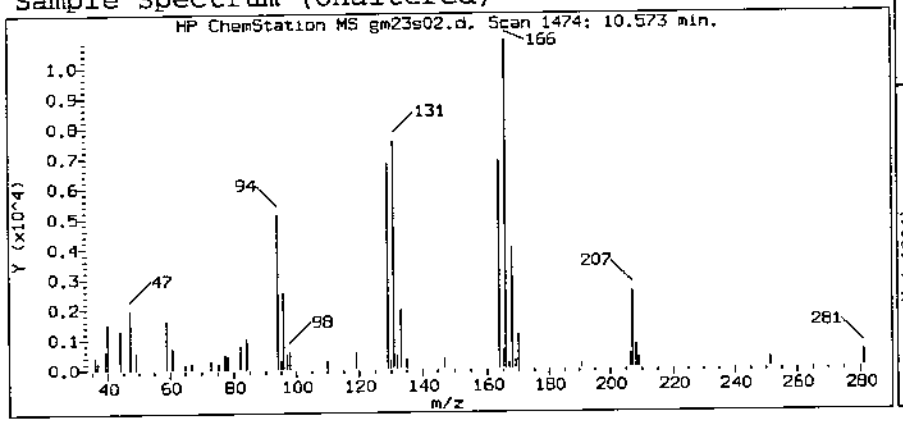
Sample Spectrum (Background Subtracted)

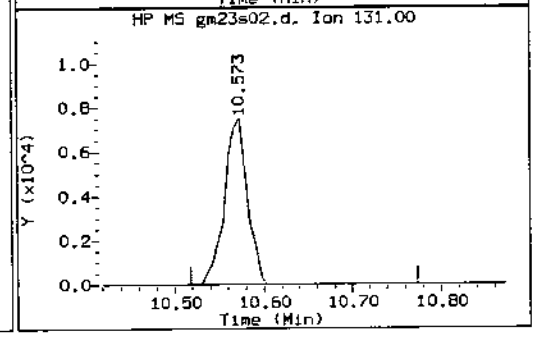






Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s02.d
Injection date and time: 23-MAR-2011 10:33

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233197

Compound Number	: 58
Compound Name	: Tetrachloroethene
Scan Number	: 1474
Retention Time (minutes)	: 10.573
Relative Retention Time	: -0.000
Quant Ion	: 166.00
Area (flag)	: 17826
On-Column Amount (ng)	: 0.1130

WAT13 8865

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Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233198

Data file: /chem2/HP16334.i/11mar23a.b/gm23s09.d
Data file Sample Info. Line: XXXXX;6233198;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 13:07**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT	(+/-RT)	Scan	QIon	Area	(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.957	(0.000)	1045	96	1814939	(-8)	5.00	

Surrogate Standards	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335	(0.000)	174	556836	5.038	101%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.487	(0.000)	152	600602	5.090	102%		80 - 120

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
1) Dichlorodifluoromethane	(1)				Not Detected					0.2	0.5
2) Chloromethane	(1)	2.233	(0.000)	50	35604M	0.218	0.22		J	0.2	0.5
3) Vinyl Chloride	(1)				Not Detected					0.1	0.5
4) Bromomethane	(1)				Not Detected					0.1	0.5
5) Chloroethane	(1)				Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)				Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)				Not Detected					0.1	0.5
17) Methylene Chloride	(1)				Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)				Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)				Not Detected					0.1	0.5
26) cis-1,2-Dichloroethene	(1)				Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)				Not Detected					0.2	0.5
32) Bromochloromethane	(1)				Not Detected					0.1	0.5
34) Chloroform	(1)				Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)				Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)				Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)				Not Detected					0.1	0.5
39) Benzene	(1)				Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)				Not Detected					0.1	0.5
43) Trichloroethene	(1)				Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)				Not Detected					0.1	0.5
46) Dibromomethane	(1)				Not Detected					0.1	0.5
47) Bromodichloromethane	(1)				Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)				Not Detected					0.1	0.5
53) Toluene	(1)				Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)				Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)				Not Detected					0.1	0.5
58) Tetrachloroethene	(1)				Not Detected					0.1	0.5
59) 1,3-Dichloropropane	(1)				Not Detected					0.1	0.5
61) Dibromochloromethane	(1)				Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)				Not Detected					0.1	0.5
64) Chlorobenzene	(1)				Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
67) m+p-Xylene	(1)				Not Detected					0.2	0.5
66) Ethylbenzene	(1)				Not Detected					0.1	0.5
68) o-Xylene	(1)				Not Detected					0.1	0.5

WA113 3866

M = Compound was manually integrated.

Digitally signed by Jason M. Long on 03/23/2011 at 13:47. Target 3.5 esignature user ID: jm101693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233198

Data file: /chem2/HP16334.i/11mar23a.b/gm23s09.d
Data file Sample Info. Line: XXXXX;6233198;1:0;;:DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 13:07**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

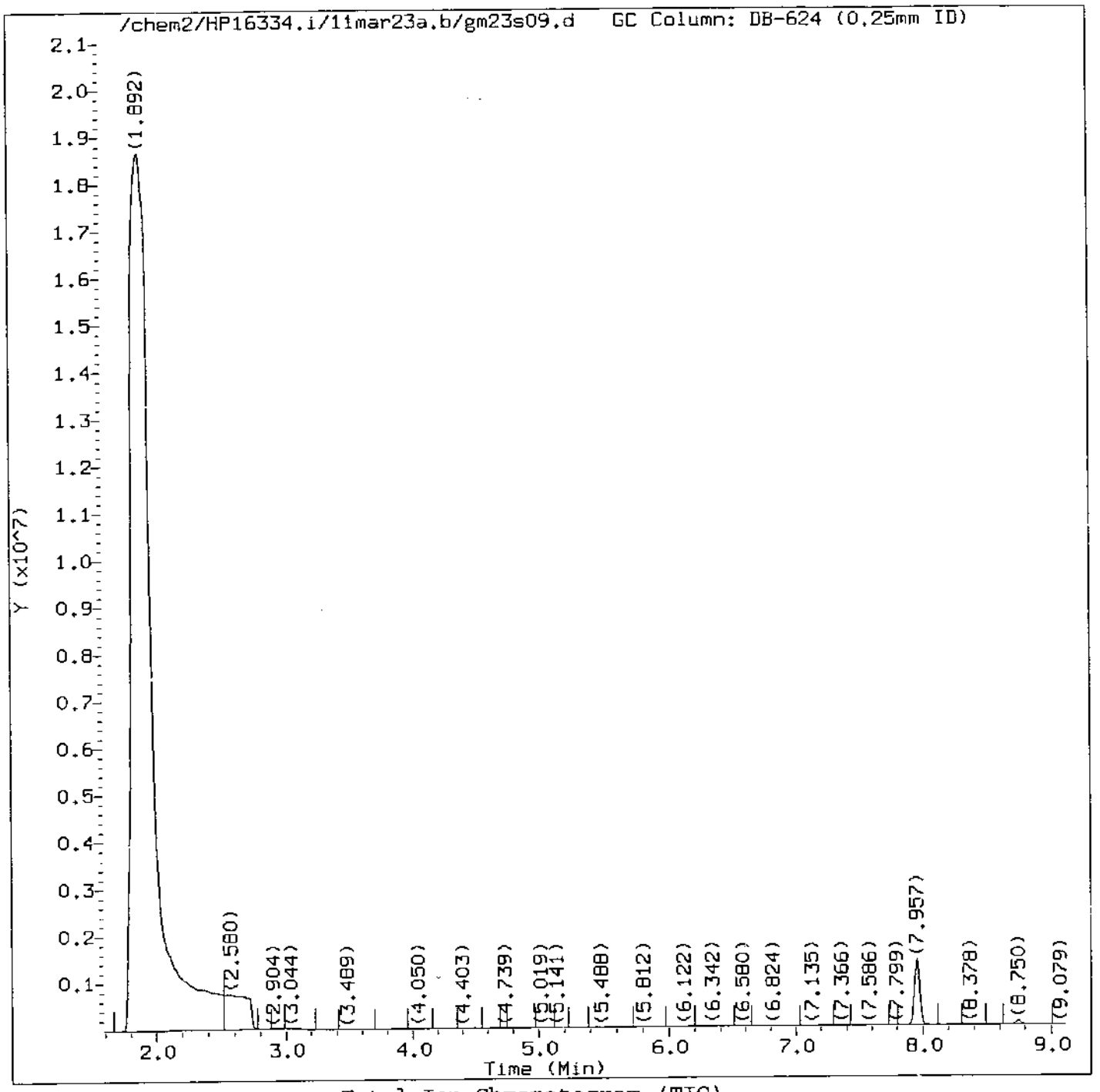
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) Xylene (Total)	(1)				Not Detected					0.2	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

WRT13 0867

Digitally signed by Jason M. Long on 03/23/2011 at 13:47. Target 3.5 esignature user ID: jm101693

Auditor: LCTM8 Date: 3/16/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d
Injection date and time: 23-MAR-2011 13:07

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

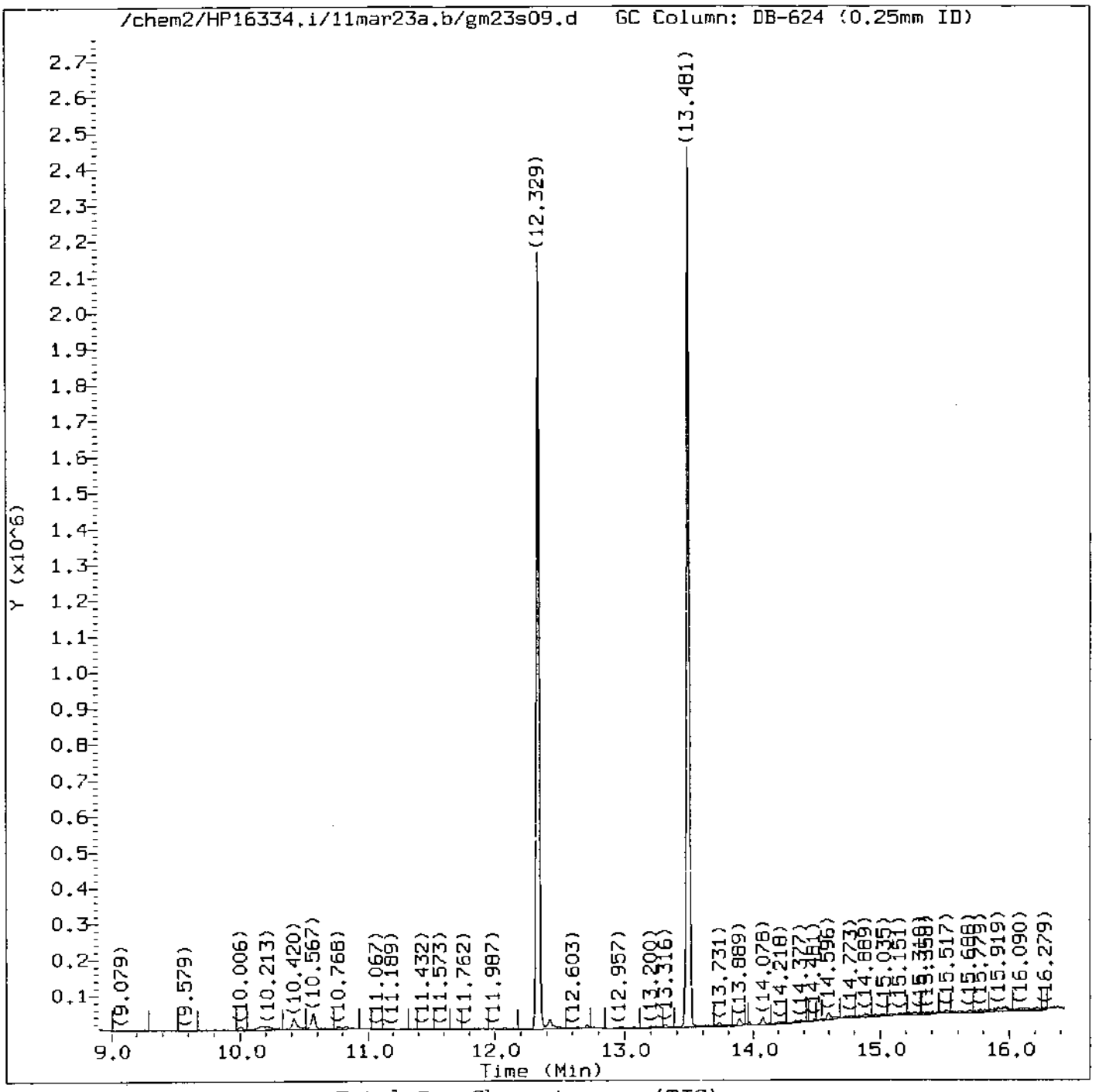
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233198

WAT13 8868

Digitally signed by Jason M. Long
on 03/23/2011 at 13:47.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 13:07 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233198 WAT13 8869

Digitally signed by Jason M. Long
on 03/23/2011 at 13:47.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 13:07 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233198

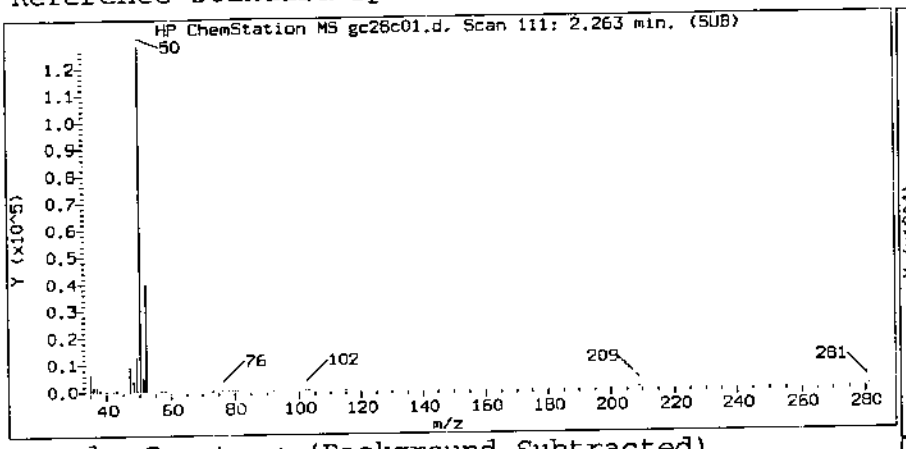
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
2) Chloromethane	(1)	2.233	50	35604M	0.218
42)*Fluorobenzene	(1)	7.957	96	1814939	5.000
73)$4-Bromofluorobenzene	(1)	12.335	174	556836	5.038
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	600602	5.090

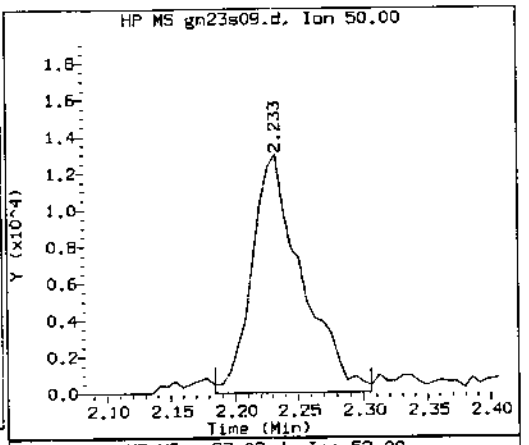
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 0878

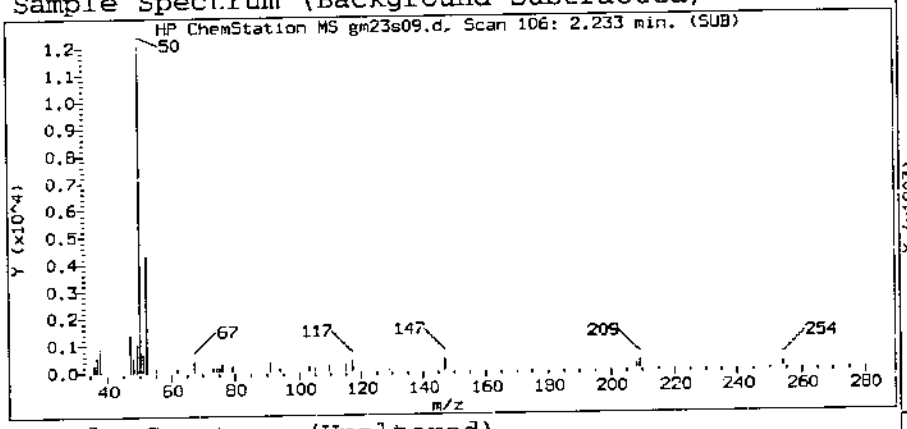
Digitally signed by Jason M. Long
on 03/23/2011 at 13:47.
Target 3.5 esignature user ID: jml01693

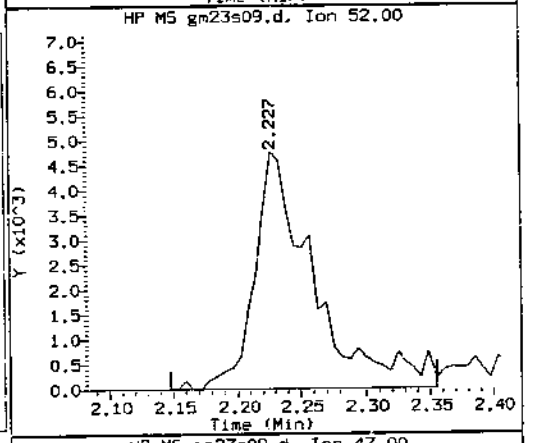
Reference Standard Spectrum for Chloromethane



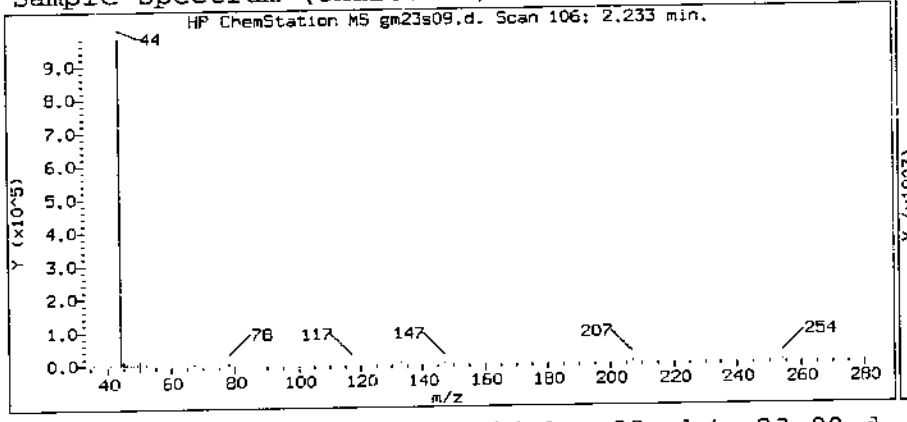


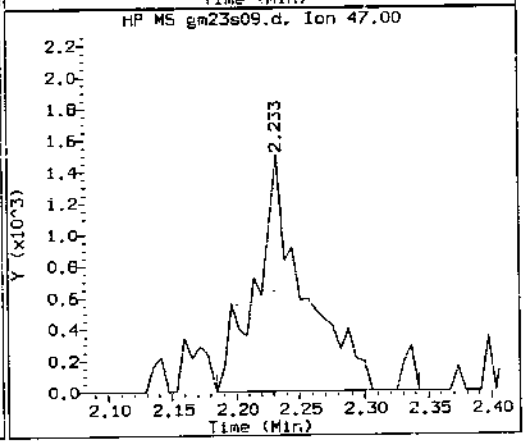
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d
Injection date and time: 23-MAR-2011 13:07

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

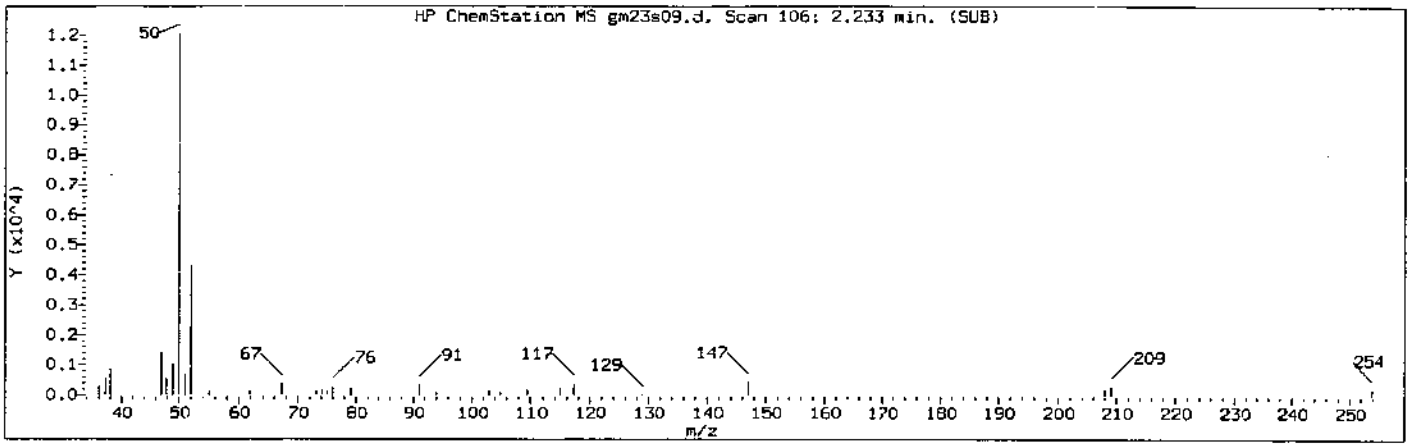
Lab Sample ID: 6233198

Compound Number	: 2
Compound Name	: Chloromethane
Scan Number	: 106
Retention Time (minutes)	: 2.233
Relative Retention Time	: 0.000
Quant Ion	: 50.00
Area (flag)	: 35604M
On-Column Amount (ng)	: 0.2184

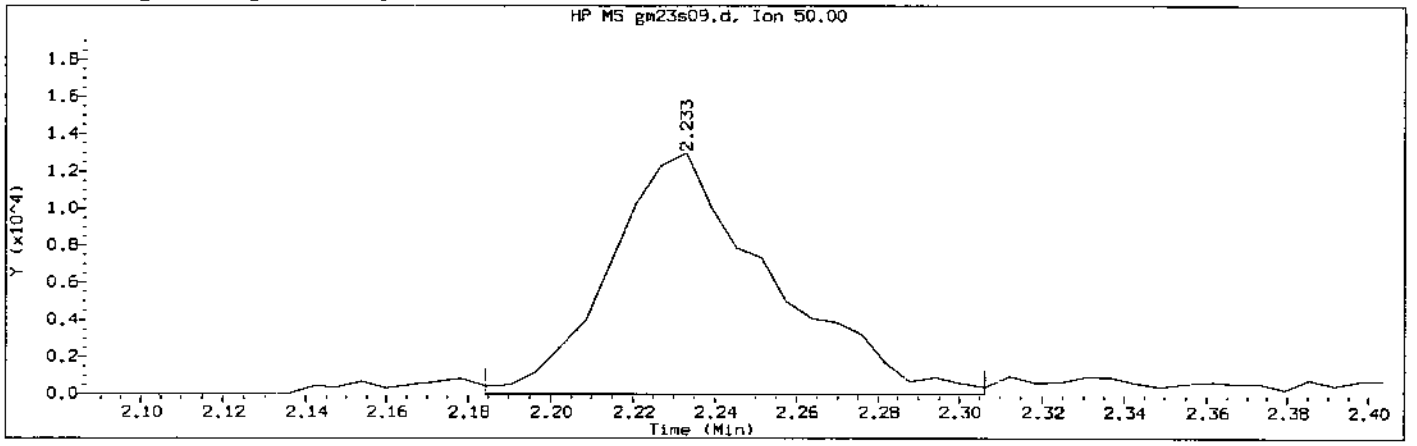
WAT13 8071

Digitally signed by Jason M. Long on 03/23/2011 at 13:47.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 13:07 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233198

Compound Number : 2
Compound Name : Chloromethane
Scan Number : 106
Retention Time (minutes): 2.233
Quant Ion : 50.00
Area (flag) : 35604M
On-Column Amount (ng) : 0.2184
Integration start scan : 97 Integration stop scan: 117
Y at integration start : 0 Y at integration end: 0

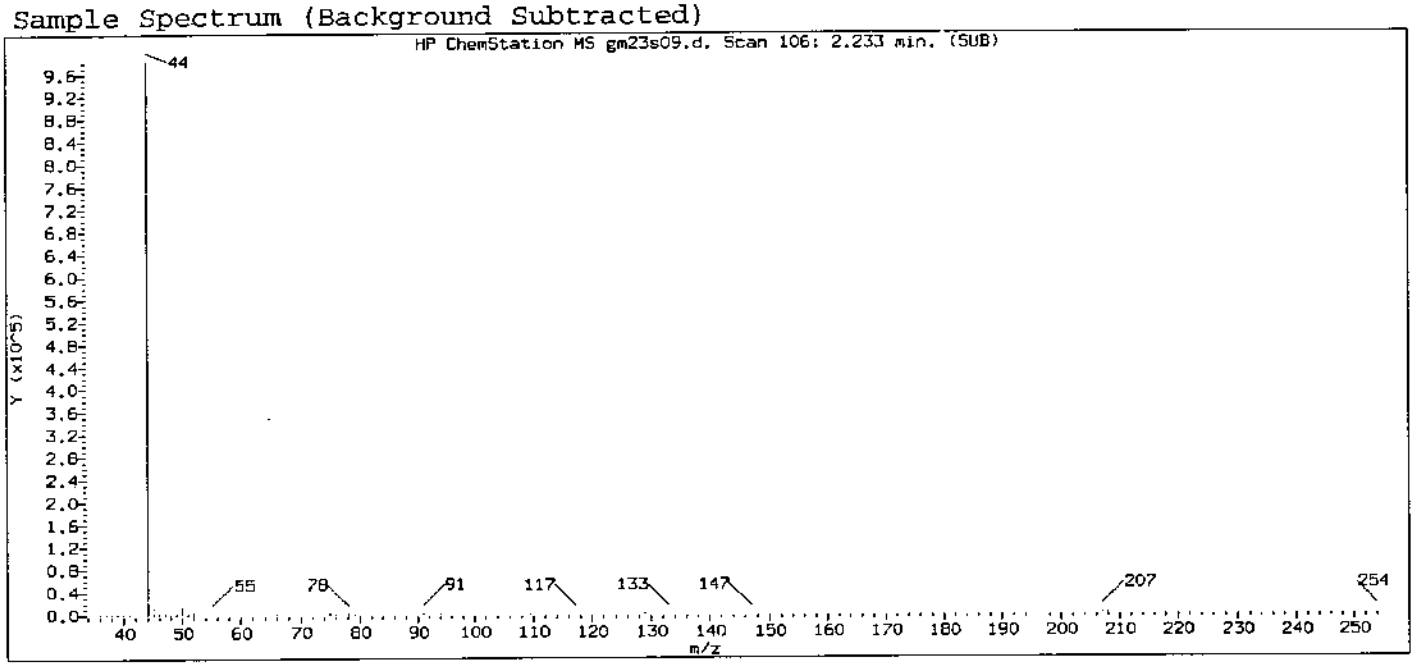
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:47. Target 3.5 esignature user ID: jml01693

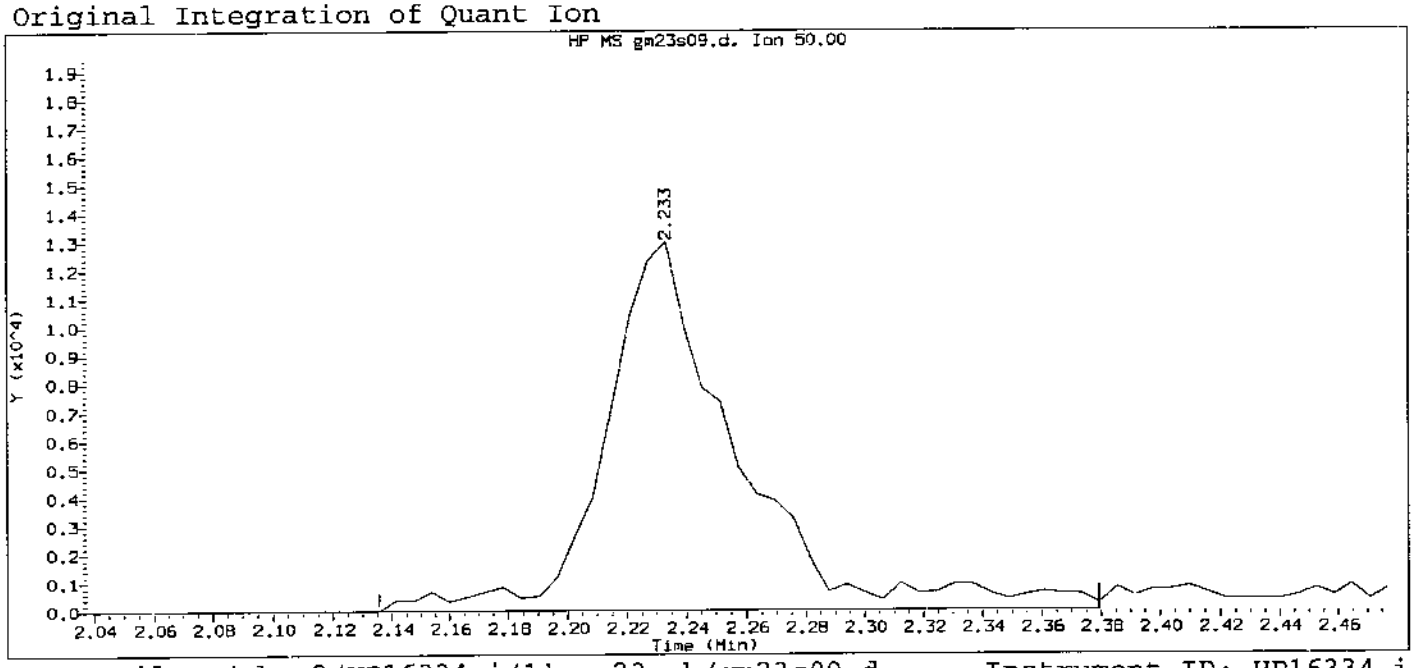
HAT13 8872

GC/MS audit/management approval: LCTOD 3/2/6/4

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s09.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 13:07 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 13:25 Automation

Sample Name: XXXXX Lab Sample ID: 6233198

Compound Number : 2
Compound Name : Chloromethane
Scan Number : 106
Retention Time (minutes): 2.233
Quant Ion : 50.00
Area : 39717
On-column Amount (ng) : 0.2437
Integration start scan : 89 Integration stop scan: 129
Y at integration start : 0 Y at integration end: 0

WAT13 0873

Digitally signed by Jason M. Long on 03/23/2011 at 13:47.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233199

Data file: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Data file Sample Info. Line: XXXXX;6233199;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jm101693

Injection date and time: **23-MAR-2011 11:16**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.952(0.006)	1044	96	1881754 (-5)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.329(0.000)	174	583462	5.091	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.487(-0.001)	152	624960	5.109	102%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)			Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)			Not Detected					0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)			Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
26) cis-1,2-Dichloroethene	(1)	6.379(0.000)	96	28667M	0.240	0.24		J	0.1	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)			Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)	10.567(-0.000)	166	23769	0.151	0.15		J	0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
67) m+p-Xylene	(1)			Not Detected					0.2	0.5
66) Ethylbenzene	(1)			Not Detected					0.1	0.5
68) o-Xylene	(1)			Not Detected					0.1	0.5

M = Compound was manually integrated.

WHI13 0074

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jm101693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233199

Data file: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Data file Sample Info. Line: XXXXX;6233199;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Injection date and time: **23-MAR-2011 11:16**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

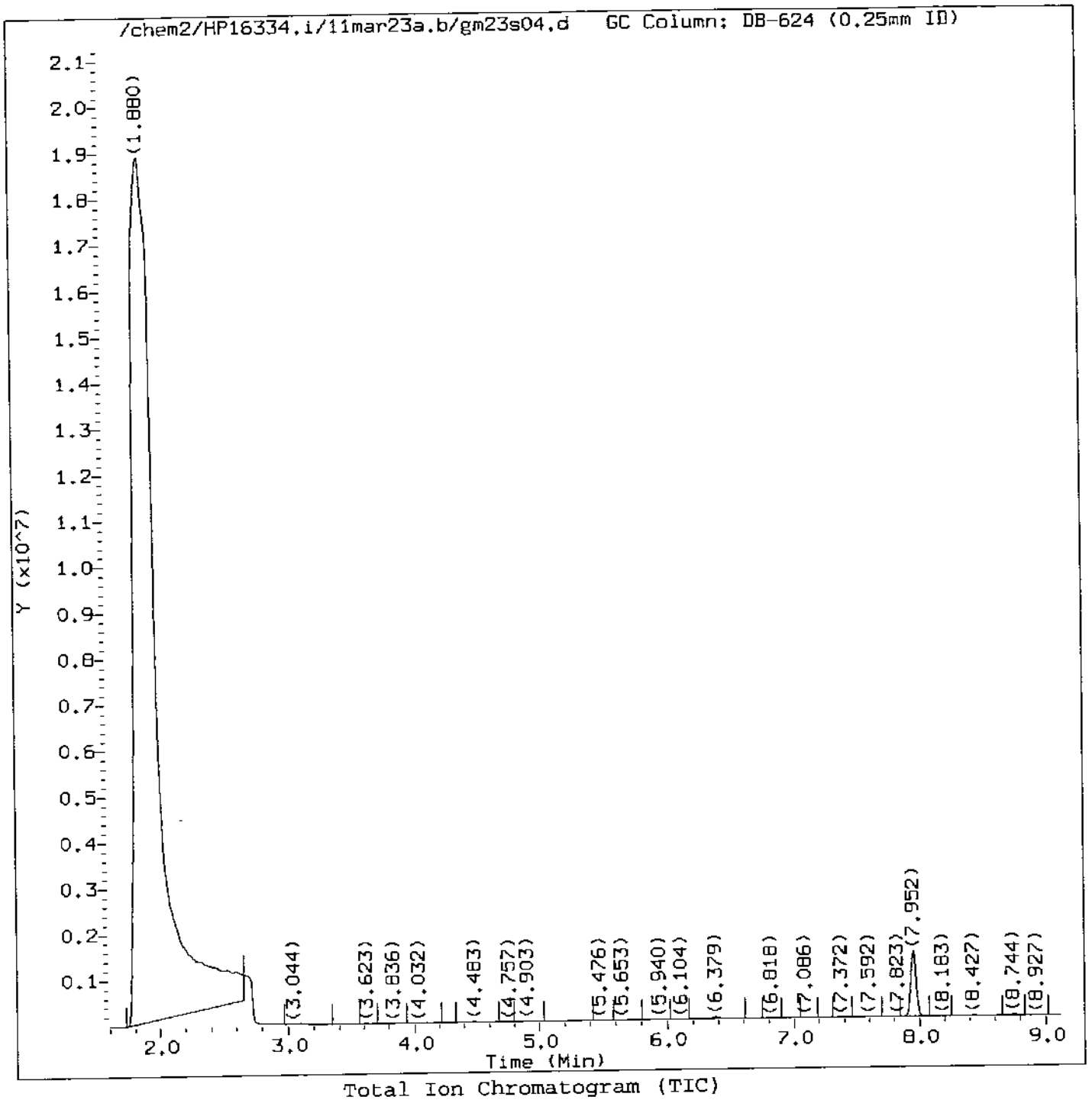
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
70) Xylene (Total)	(1)				Not Detected					0.2	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)				Not Detected					0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

WAT13-9875

Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693

Auditor: LOMM Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Injection date and time: 23-MAR-2011 11:16

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

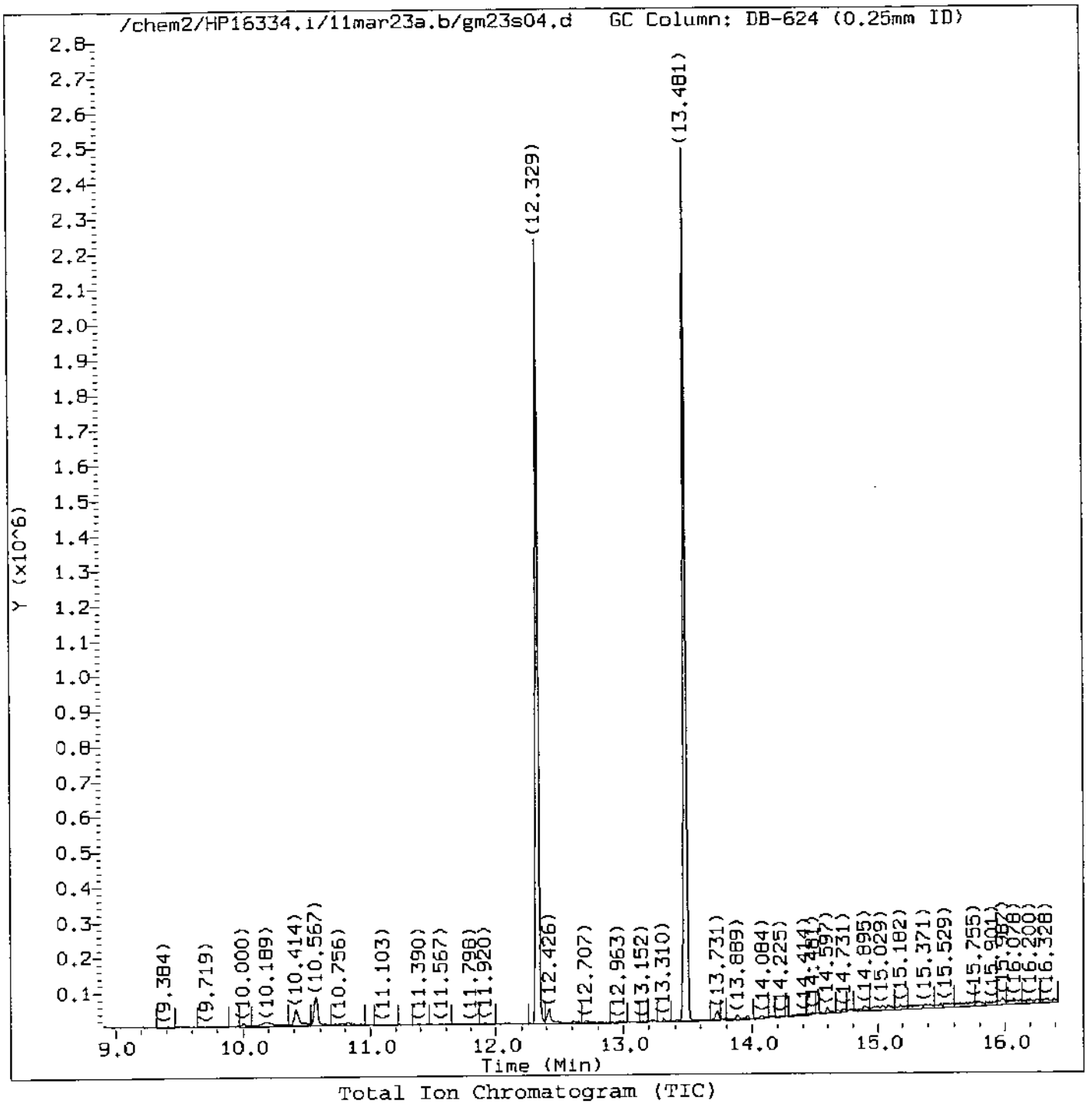
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233199

WAT13 8876

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Injection date and time: 23-MAR-2011 11:16

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233199

WAT13 8877

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Injection date and time: 23-MAR-2011 11:16

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233199

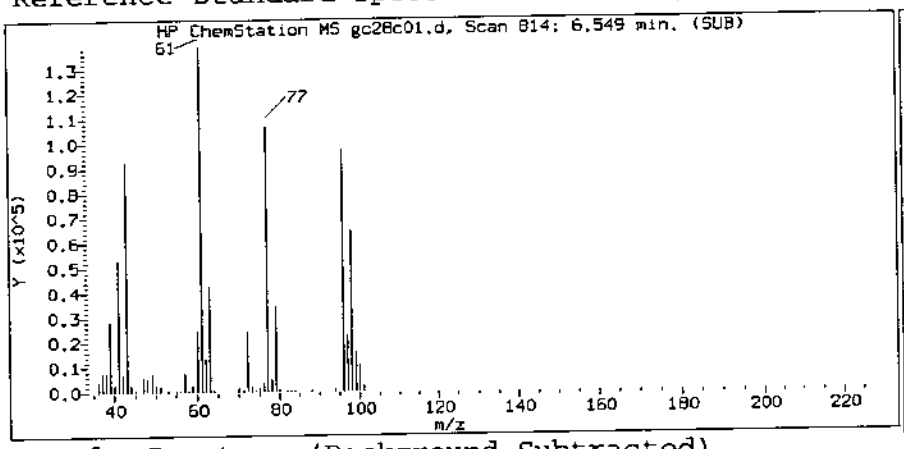
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
26) cis-1,2-Dichloroethene	(1)	6.379	96	28667M	0.240
42)*Fluorobenzene	(1)	7.952	96	1881754	5.000
58) Tetrachloroethene	(1)	10.567	166	23769	0.151
73)$4-Bromofluorobenzene	(1)	12.329	174	583462	5.091
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	624960	5.109

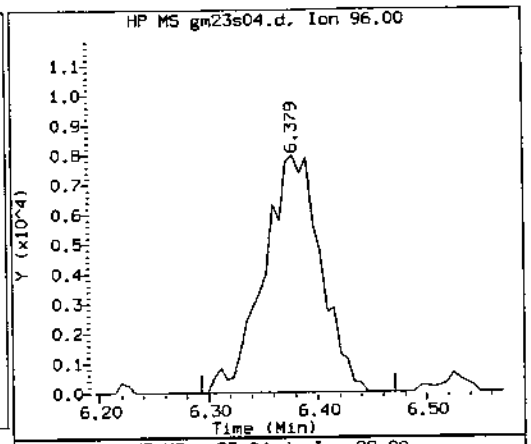
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 0070

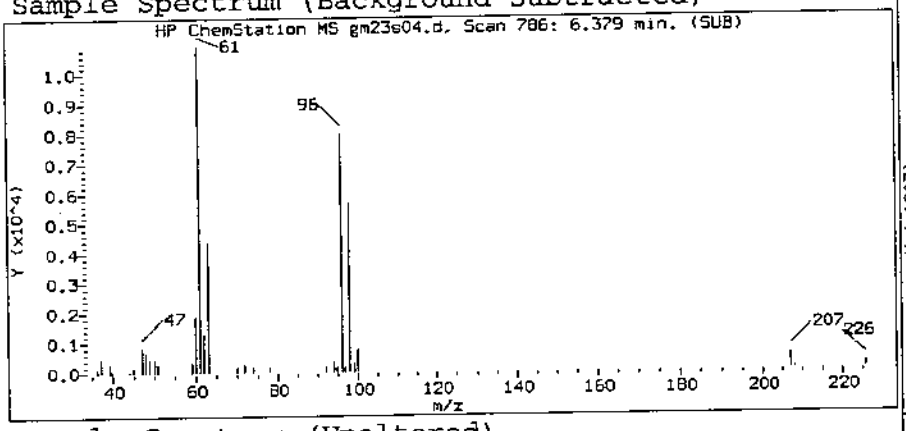
Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

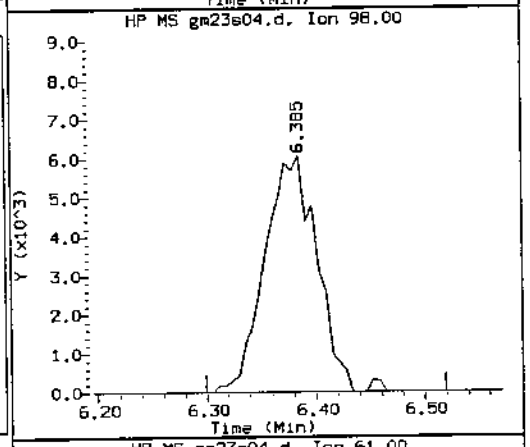
Reference Standard Spectrum for cis-1,2-Dichloroethene



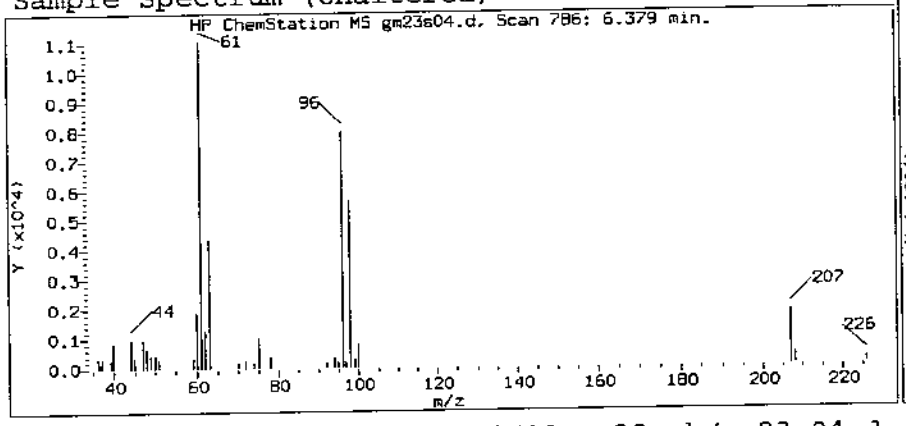


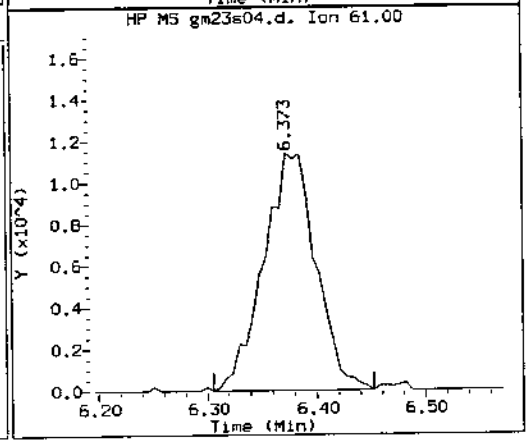
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Injection date and time: 23-MAR-2011 11:16

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

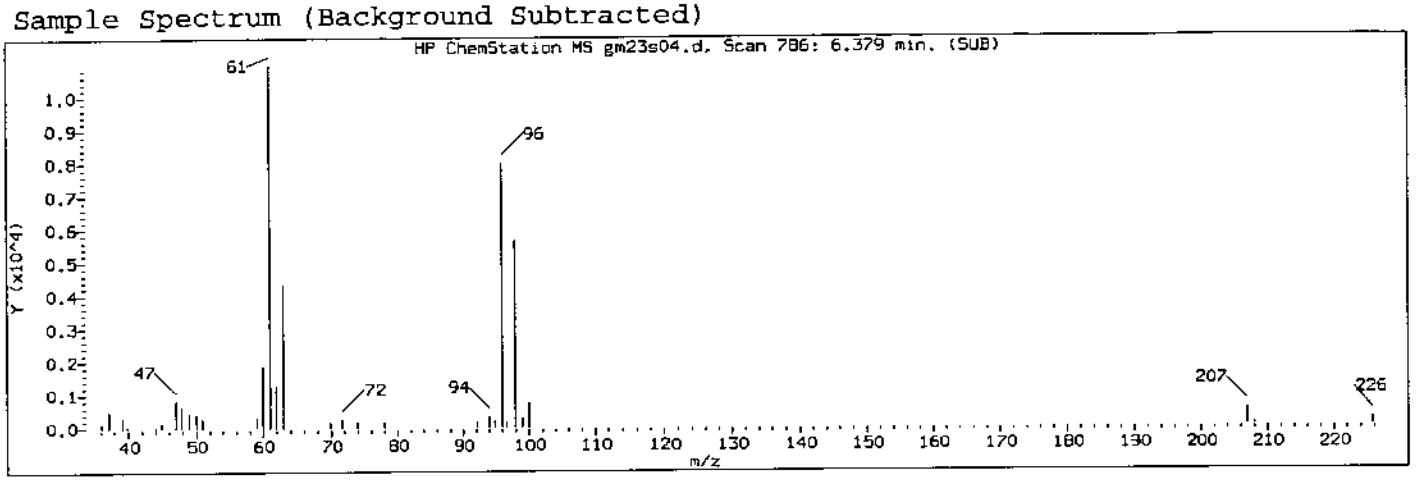
Lab Sample ID: 6233199

Compound Number	: 26
Compound Name	: cis-1,2-Dichloroethene
Scan Number	: 786
Retention Time (minutes)	: 6.379
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 28667M
On-Column Amount (ng)	: 0.2399

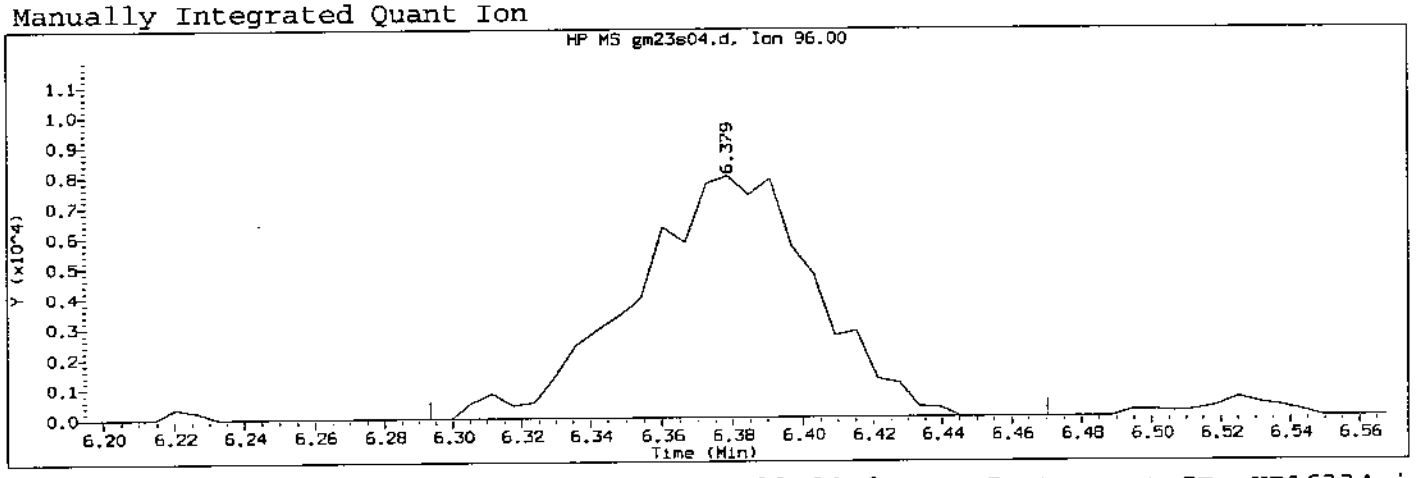
WAT13 8879

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 11:16 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX Lab Sample ID: 6233199

Compound Number	: 26		
Compound Name	: cis-1,2-Dichloroethene		
Scan Number	: 786		
Retention Time (minutes)	: 6.379		
Quant Ion	: 96.00		
Area (flag)	: 28667M		
On-Column Amount (ng)	: 0.2399		
Integration start scan	: 771	Integration stop scan:	800
Y at integration start	: 0	Y at integration end:	0

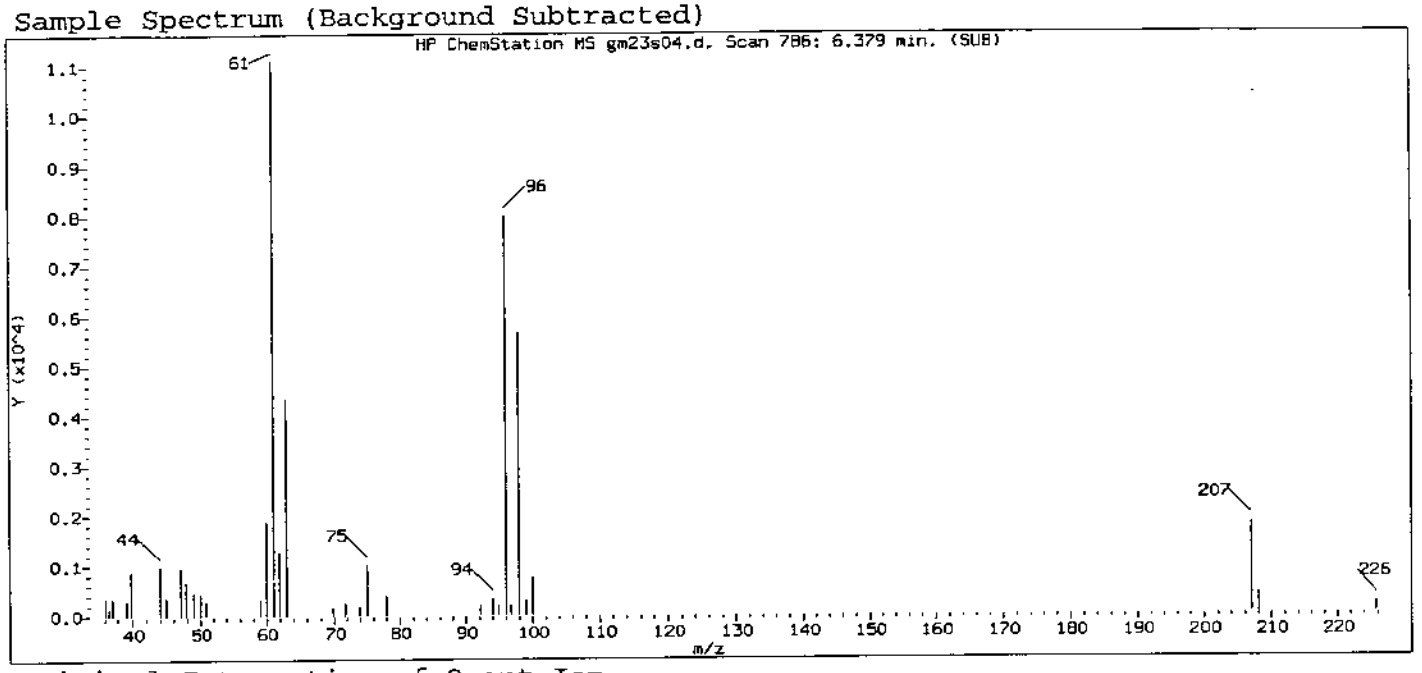
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693

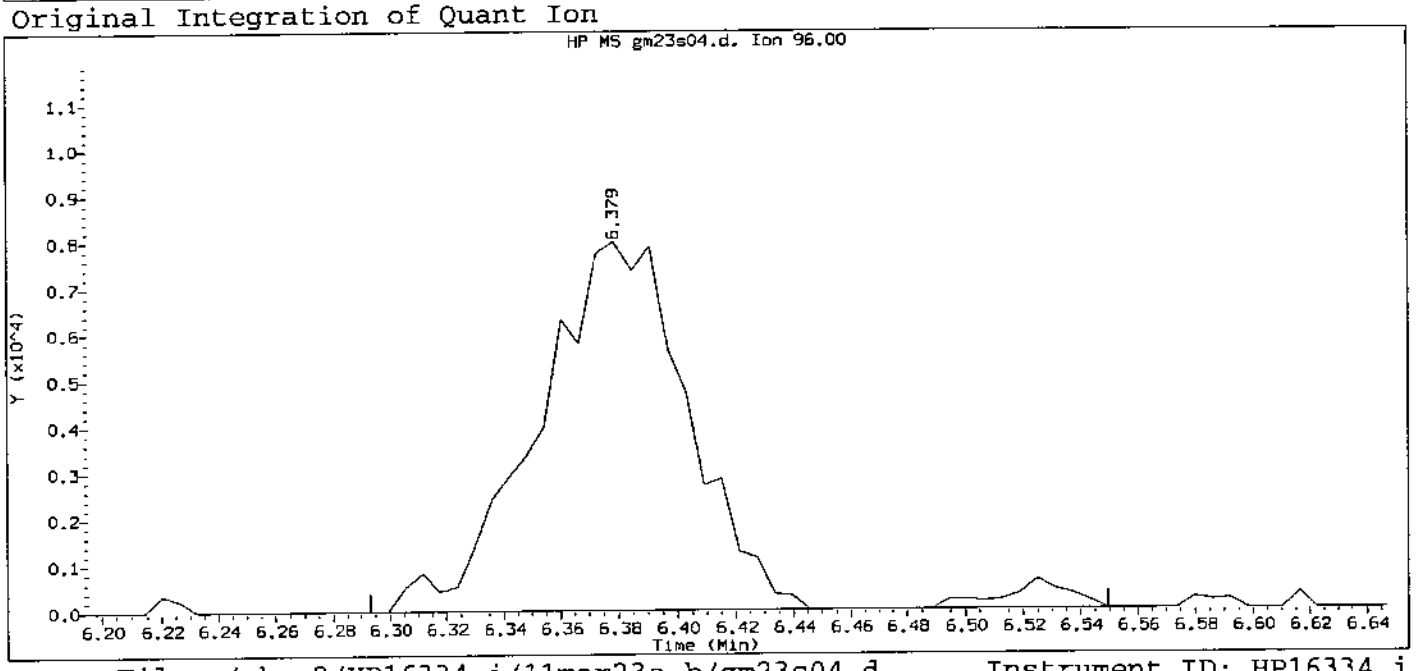
WAT13 8888

GC/MS audit/management approval: LCMJR 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 11:16 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 11:35 Automation

Sample Name: XXXXX Lab Sample ID: 6233199

Compound Number : 26
Compound Name : cis-1,2-Dichloroethene
Scan Number : 786
Retention Time (minutes): 6.379
Quant Ion : 96.00
Area : 29677
On-column Amount (ng) : 0.2483
Integration start scan : 771 Integration stop scan: 813
Y at integration start : 0 Y at integration end: 0

WAT13 8881

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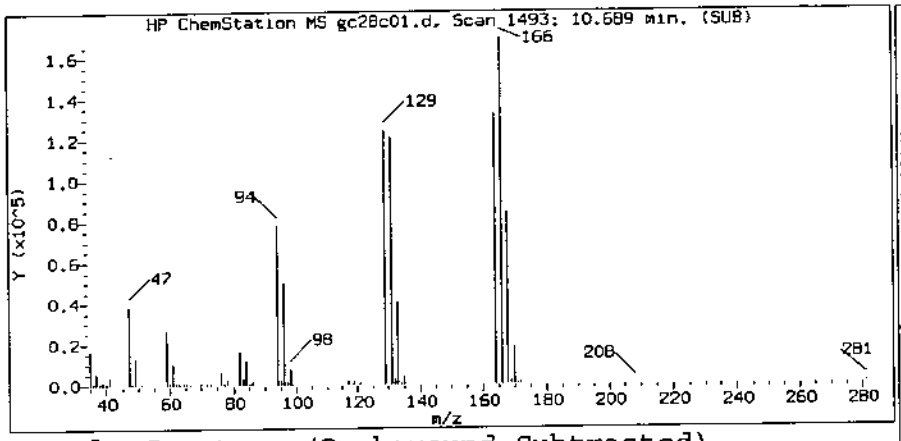
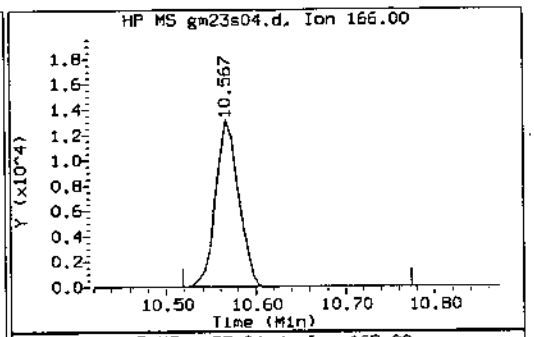
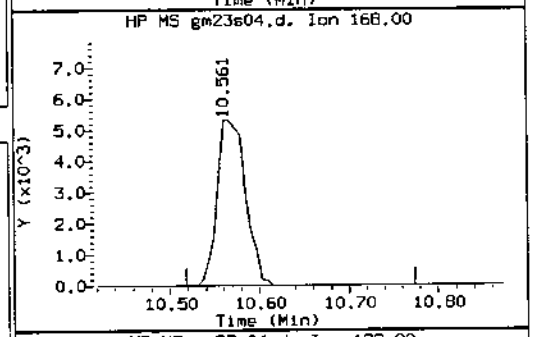
Target 3.5 esignature user ID: jml01693

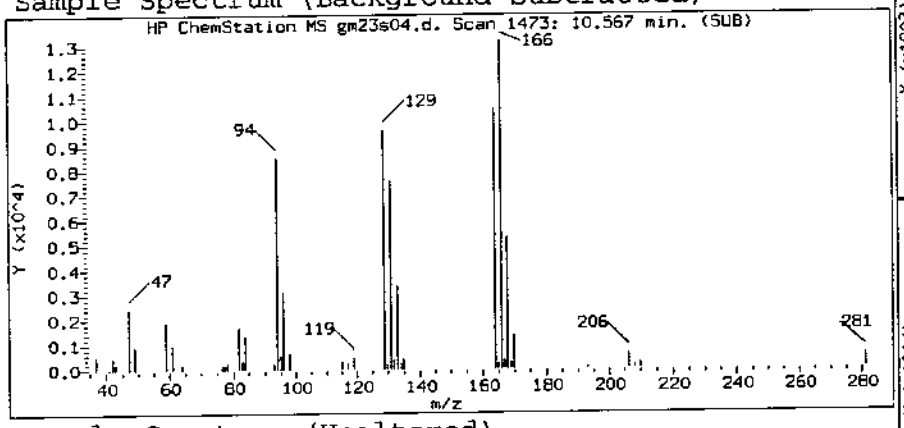
Reference Standard Spectrum for Tetrachloroethene

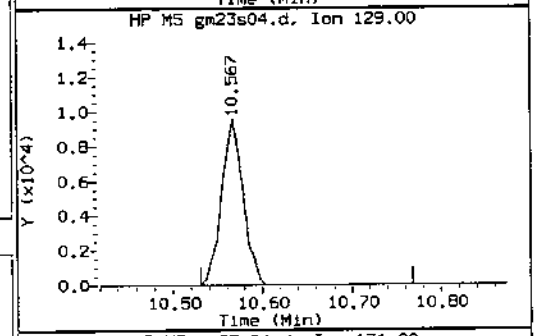




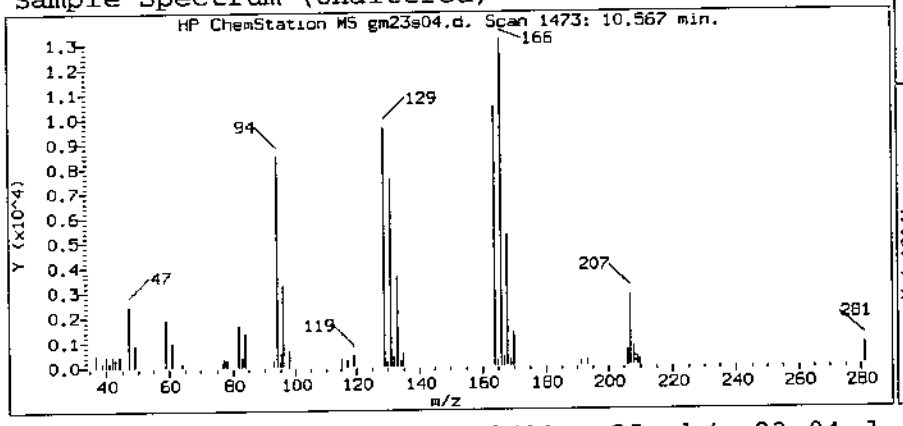


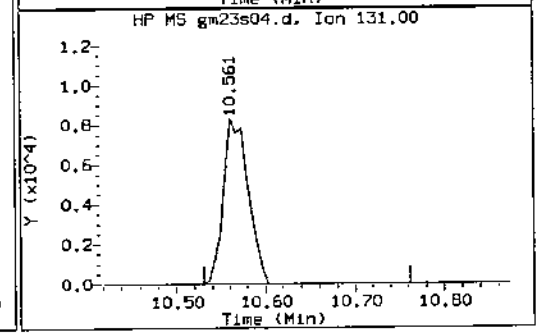
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s04.d
Injection date and time: 23-MAR-2011 11:16

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:44 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233199

Compound Number : 58
Compound Name : Tetrachloroethene
Scan Number : 1473
Retention Time (minutes): 10.567
Relative Retention Time : -0.000
Quant Ion : 166.00
Area (flag) : 23769
On-Column Amount (ng) : 0.1508

WAT13 0882

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Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233200

Data file: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Data file Sample Info. Line: XXXXX;6233200;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 11:38**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.958(0.000)	1045	96	1851932 (-6)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	572909	5.080	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.481(0.001)	152	621857	5.165	103%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)	2.081(0.000)	85	135780	0.680	0.68			0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)	2.392(0.000)	62	37128	0.243	0.24		J	0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
5) Chloroethane	(1)	2.849(0.000)	64	526617	6.309	6.31			0.2	0.5
10) 1,1-Dichloroethene	(1)	3.788(0.000)	96	107505	1.084	1.08			0.1	0.5
17) Methylene Chloride	(1)	4.495(-0.000)	84	90836	0.916	0.92			0.3	0.5
20) trans-1,2-Dichloroethene	(1)	4.909(-0.000)	96	18334M	0.156	0.16		J	0.1	0.5
22) 1,1-Dichloroethane	(1)	5.543(0.000)	63	5322818	25.031	25.03		E	0.1	0.5
26) cis-1,2-Dichloroethene	(1)	6.378(0.000)	96	513716	4.367	4.37			0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
39) Benzene	(1)	7.586(-0.000)	78	153709	0.342	0.34		J	0.1	0.5
40) 1,2-Dichloroethane	(1)	7.610(0.000)	62	16558	0.166	0.17		J	0.1	0.5
43) Trichloroethene	(1)	8.433(0.000)	95	91372	0.705	0.71			0.1	0.5
44) 1,2-Dichloropropane	(1)	8.732(0.000)	63	17743	0.168	0.17		J	0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)	10.573(-0.000)	166	45232	0.292	0.29		J	0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)	11.378(-0.000)	112	71113	0.233	0.23		J	0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.1	0.5
67) m+p-Xylene	(1)			Not Detected					0.2	0.5
68) o-Xylene	(1)			Not Detected					0.1	0.5

M = Compound was manually integrated. E = Compound concentration above calibration range.

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XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles 6233200

Data file: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Data file Sample Info. Line: XXXXX;6233200;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 11:38**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
70) Xylene (Total)	(1)				Not Detected					0.2	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)	13.225	(-0.000)	146	437371	1.764	1.76			0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

WAT13 0004

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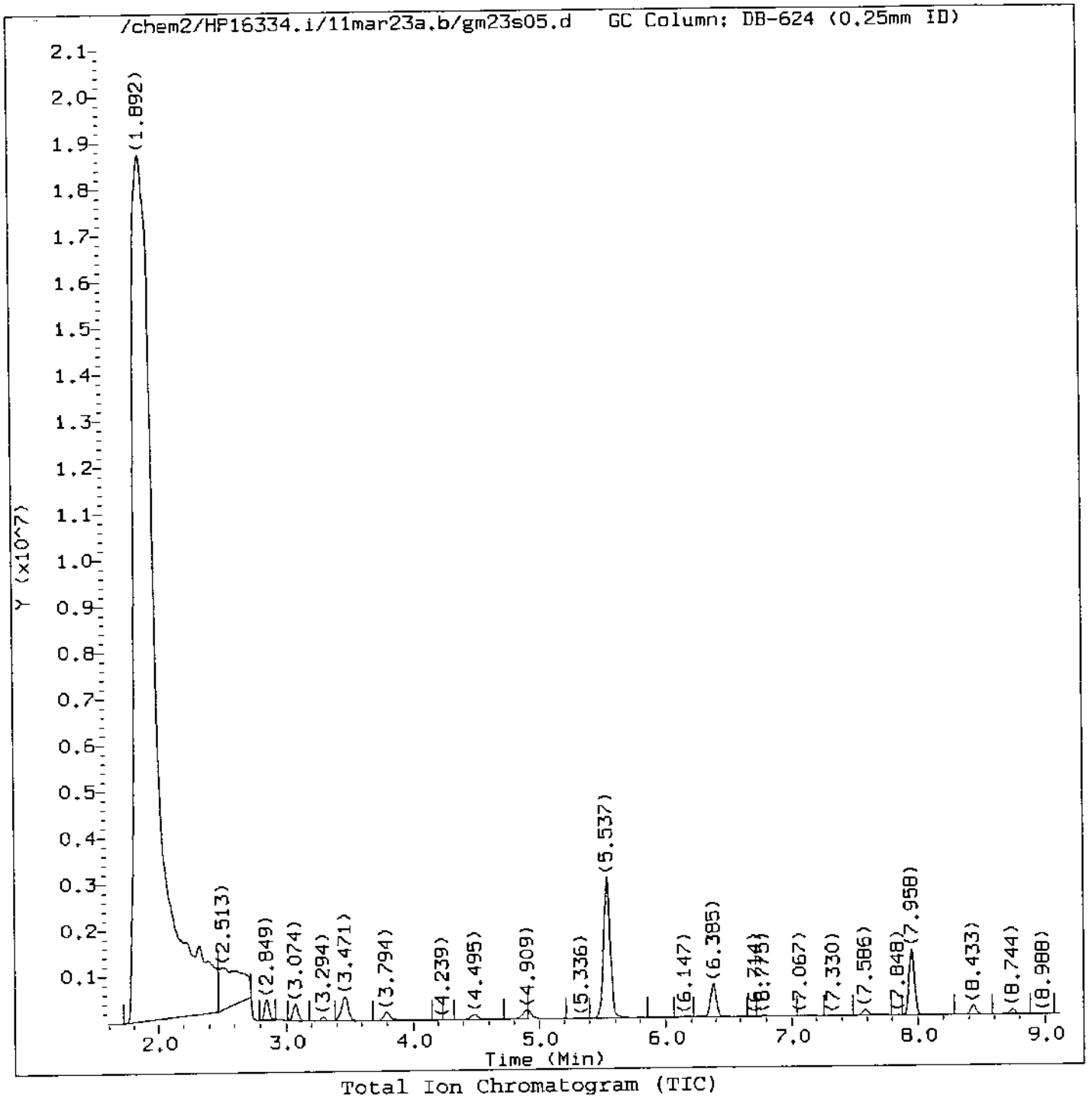
Auditor: LCTDDX Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

WAT13 8885

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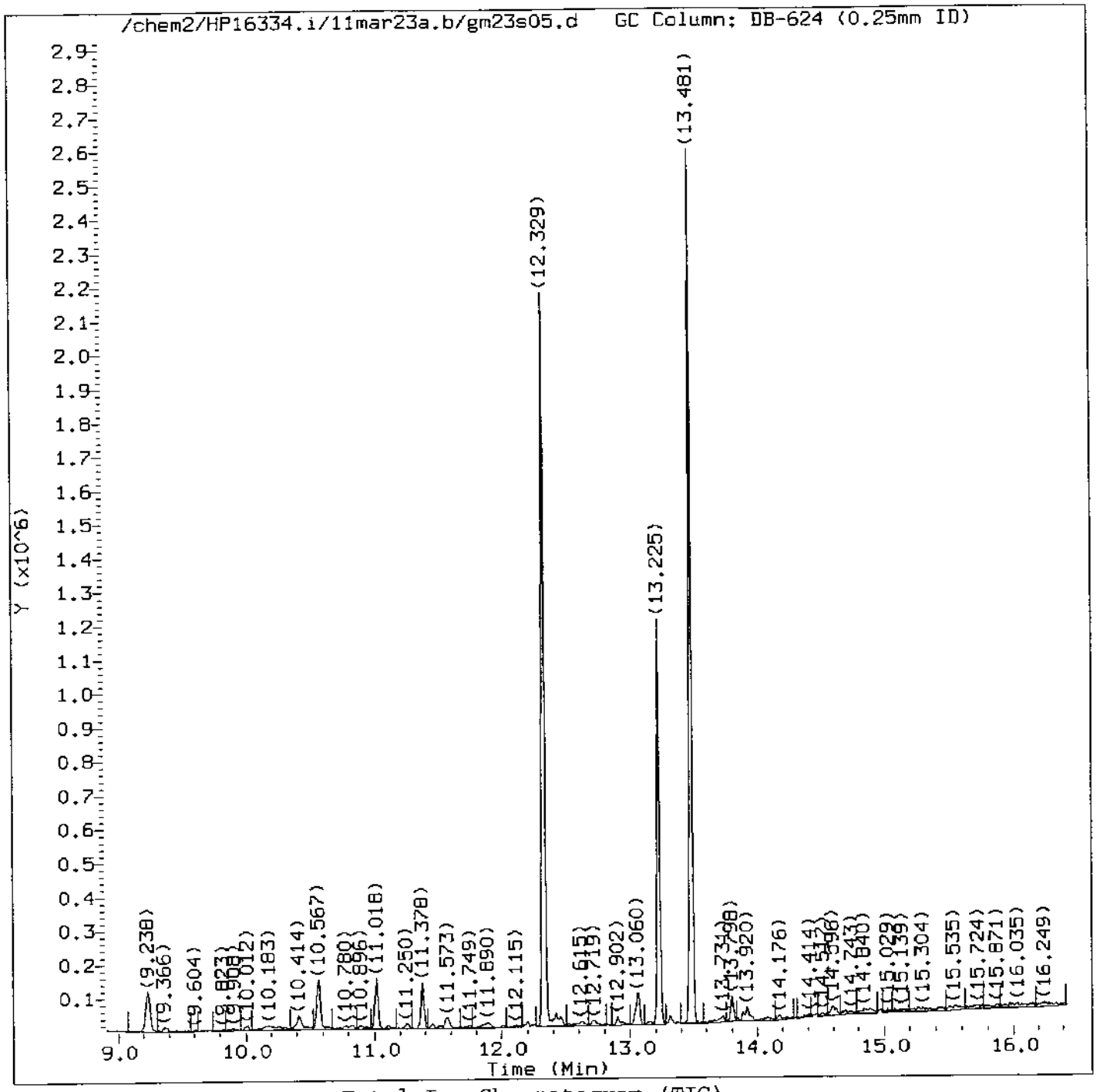
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

WAT13 6886

Digitally signed by Jason M. Long
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.081	85	135780	0.680
3) Vinyl Chloride	(1)	2.392	62	37128	0.243
5) Chloroethane	(1)	2.849	64	526617	6.309
10) 1,1-Dichloroethene	(1)	3.788	96	107505	1.084
17) Methylene Chloride	(1)	4.495	84	90836	0.916
20) trans-1,2-Dichloroethene	(1)	4.909	96	18334M	0.156
22) 1,1-Dichloroethane	(1)	5.543	63	5322818	25.031
26) cis-1,2-Dichloroethene	(1)	6.379	96	513716	4.367
39) Benzene	(1)	7.586	78	153709	0.342
40) 1,2-Dichloroethane	(1)	7.610	62	16558	0.166
42)*Fluorobenzene	(1)	7.958	96	1851932	5.000
43) Trichloroethene	(1)	8.433	95	91372	0.705
44) 1,2-Dichloropropane	(1)	8.732	63	17743	0.168
58) Tetrachloroethene	(1)	10.573	166	45232	0.292
64) Chlorobenzene	(1)	11.378	112	71113	0.233
73)$4-Bromofluorobenzene	(1)	12.335	174	572909	5.080
88) 1,4-Dichlorobenzene	(1)	13.225	146	437371	1.764
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	621857	5.165

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

MAT13 0007

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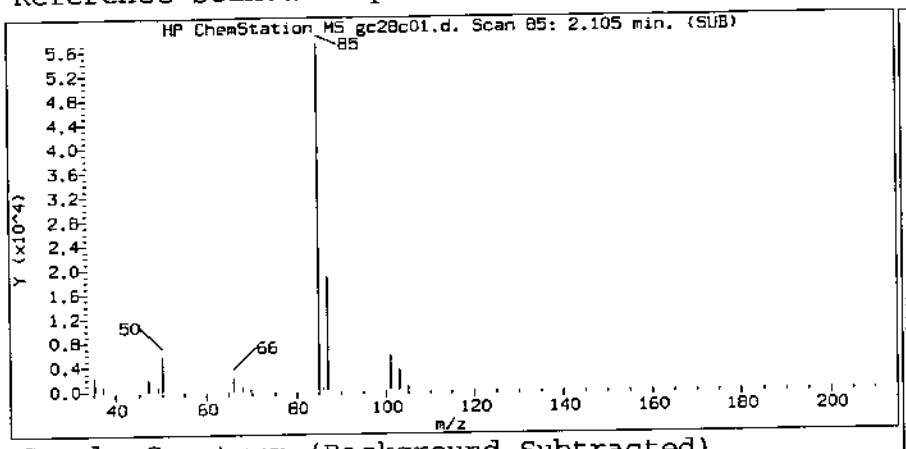
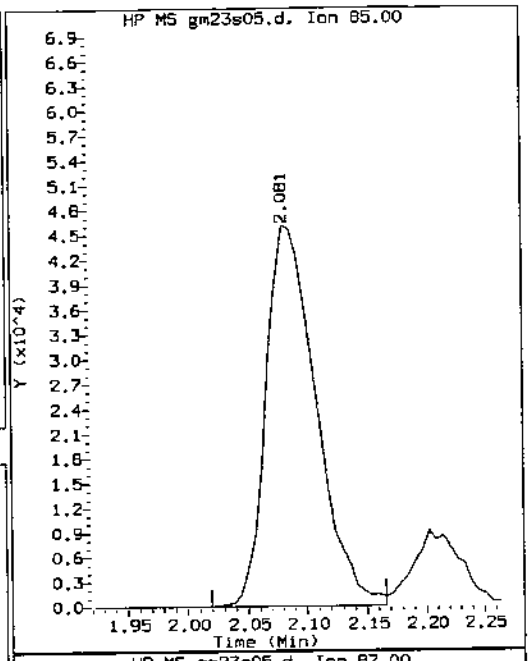
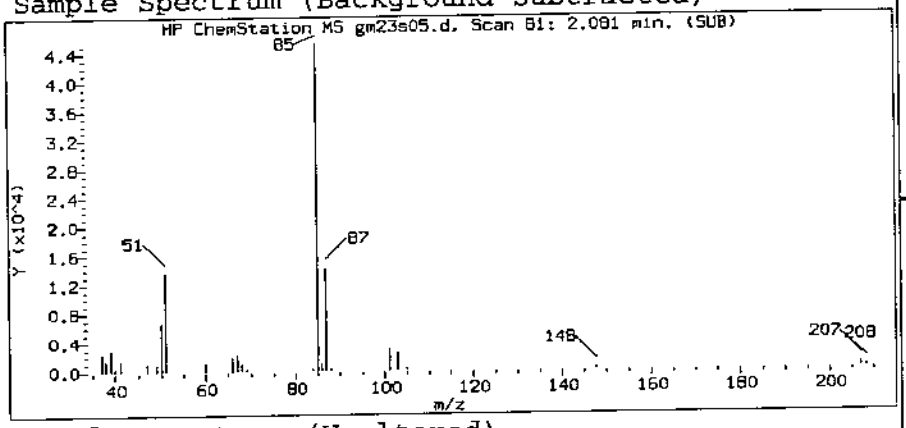
on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

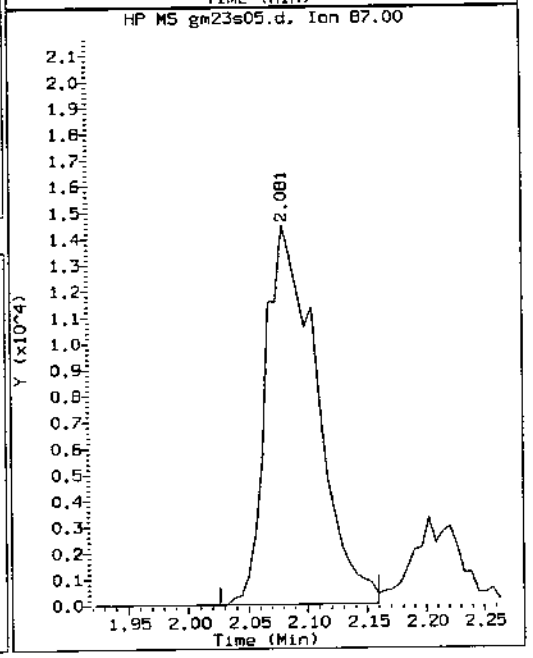
Reference Standard Spectrum for Dichlorodifluoromethane



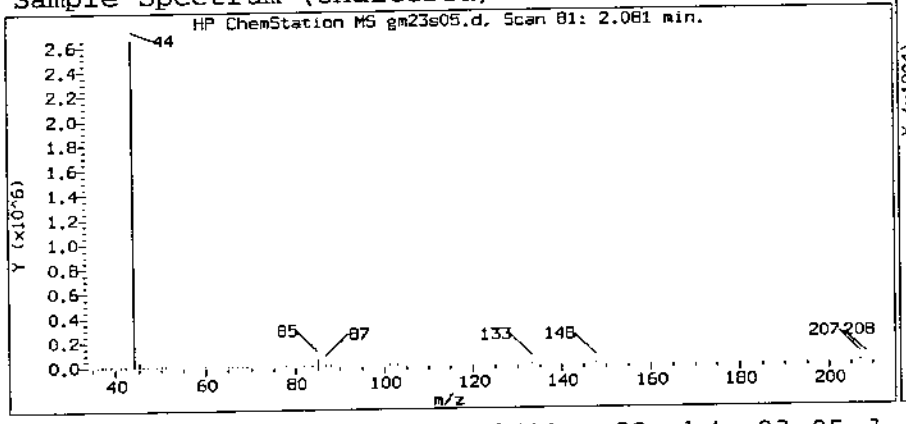


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 1
Compound Name	: Dichlorodifluoromethane
Scan Number	: 81
Retention Time (minutes)	: 2.081
Relative Retention Time	: 0.000
Quant Ion	: 85.00
Area (flag)	: 135780
On-Column Amount (ng)	: 0.6798

WAT13 8888

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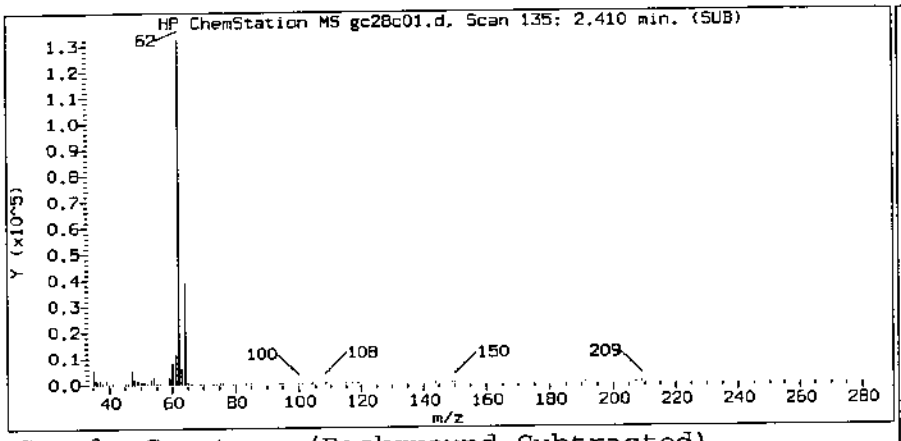
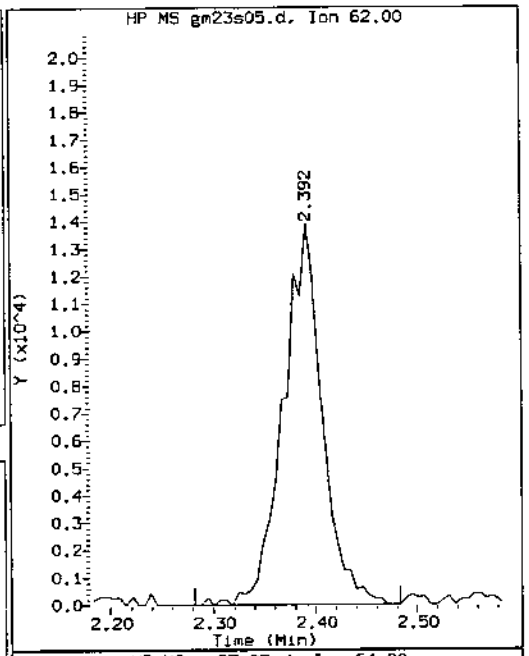
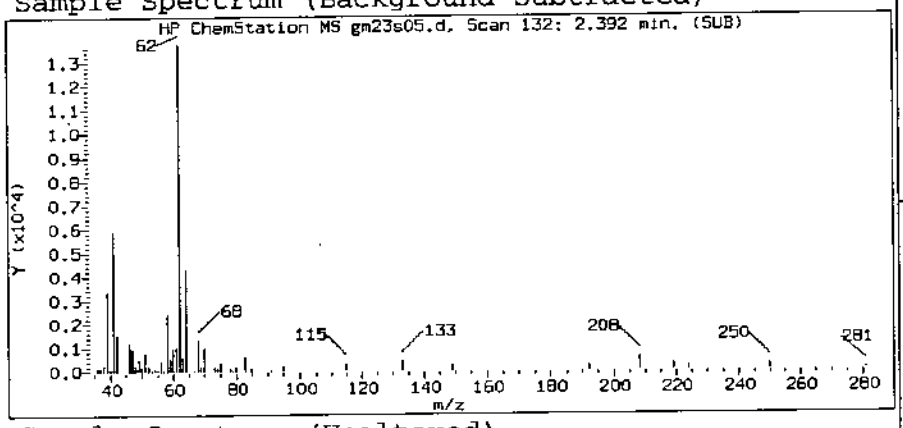
Target 3.5 esignature user ID: jml01693

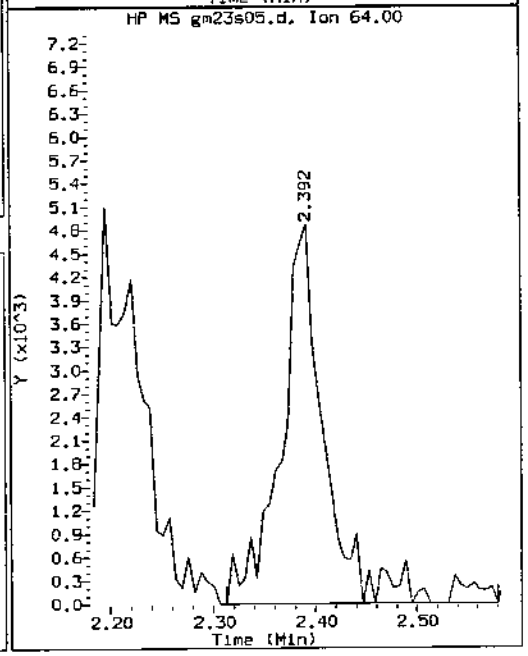
Reference Standard Spectrum for Vinyl Chloride



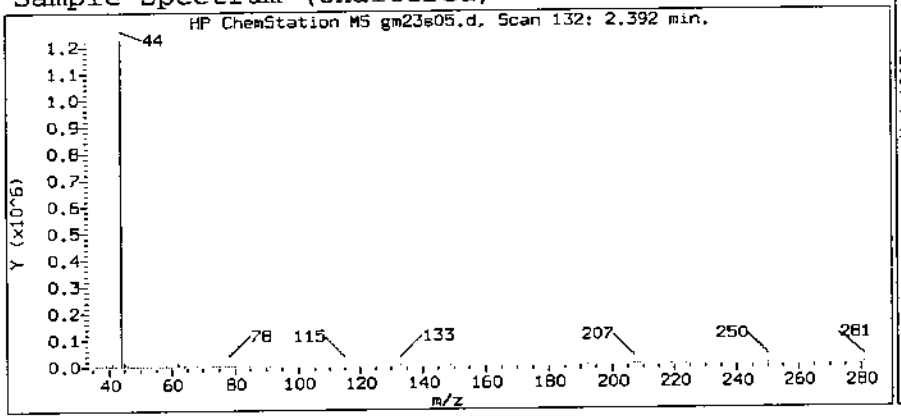


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number : 3
Compound Name : Vinyl Chloride
Scan Number : 132
Retention Time (minutes): 2.392
Relative Retention Time : 0.000
Quant Ion : 62.00
Area (flag) : 37128
On-Column Amount (ng) : 0.2427

WA713 0009

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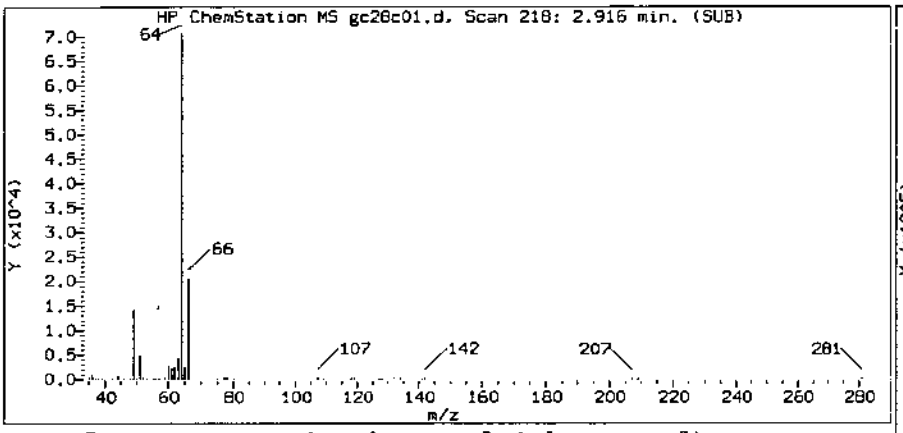
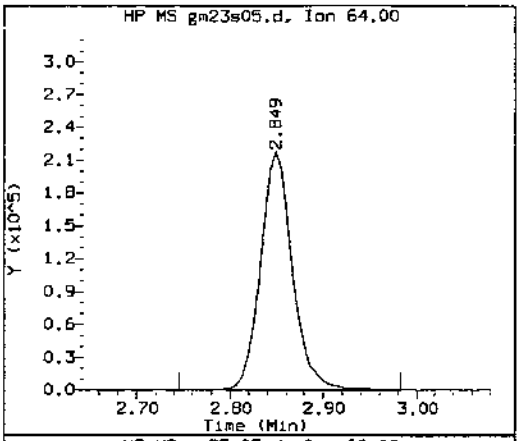
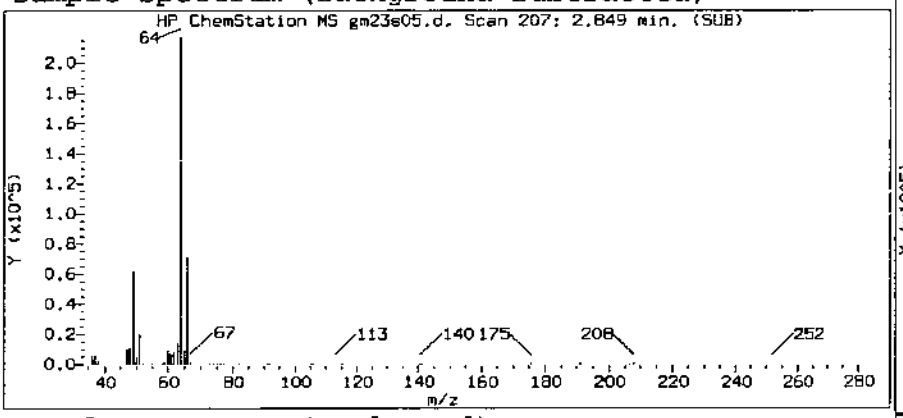
Target 3.5 esignature user ID: jml01693

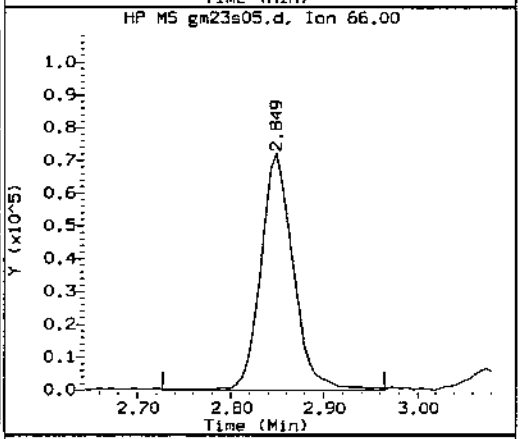
Reference Standard Spectrum for Chloroethane



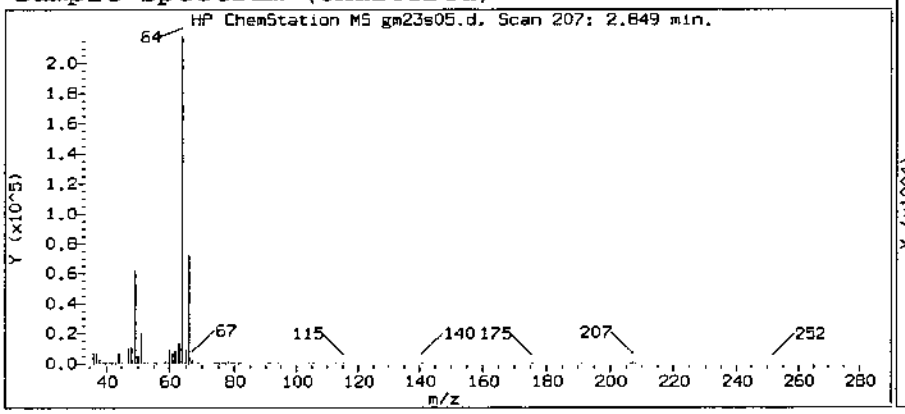


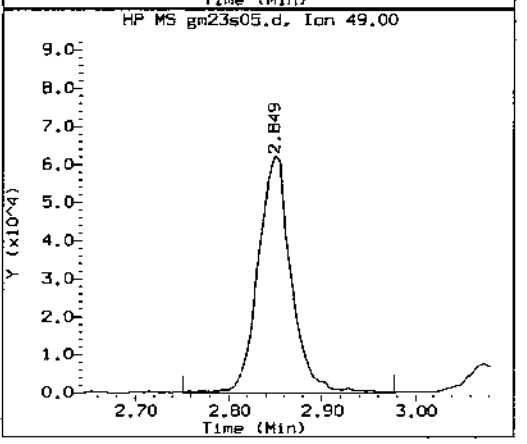
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 11:38 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233200

Compound Number : 5
Compound Name : Chloroethane
Scan Number : 207
Retention Time (minutes): 2.849
Relative Retention Time : 0.000
Quant Ion : 64.00
Area (flag) : 526617
On-Column Amount (ng) : 6.3087

WAT13 8898

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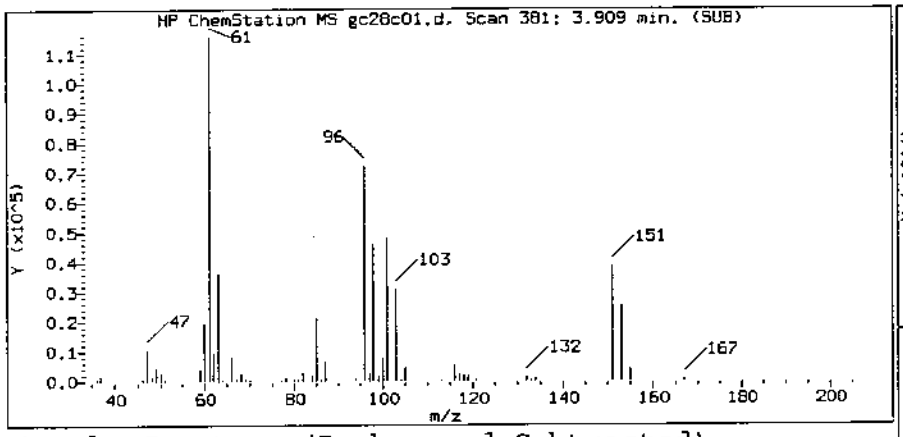
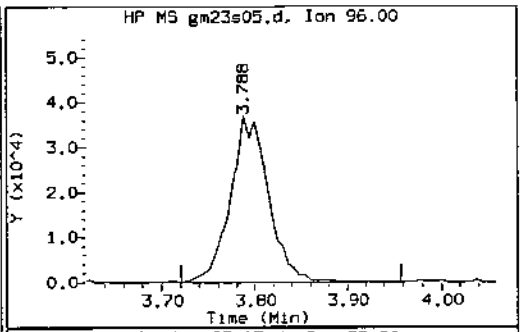
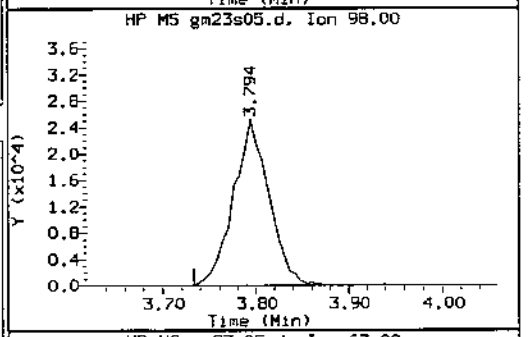
Target 3.5 esignature user ID: jml01693

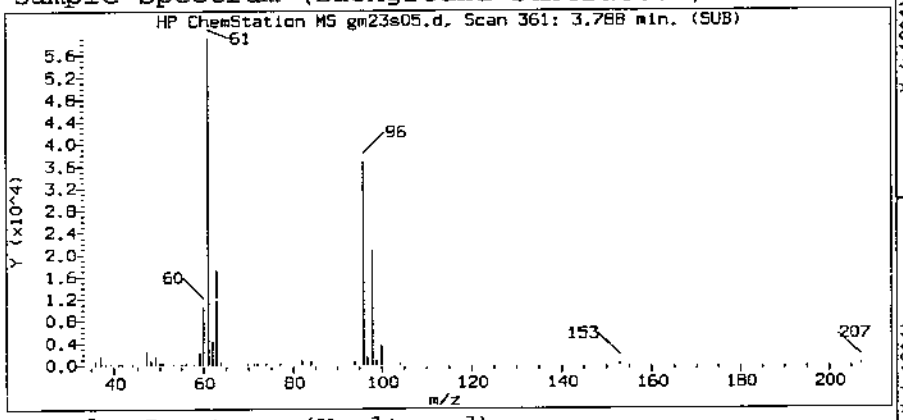
Reference Standard Spectrum for 1,1-Dichloroethene

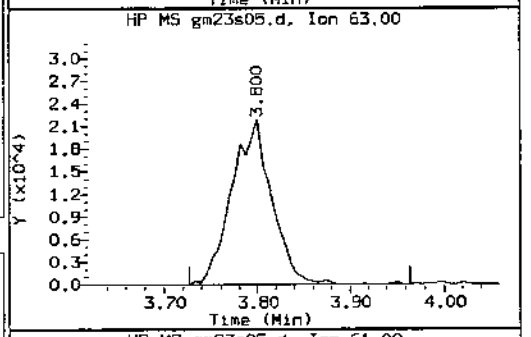




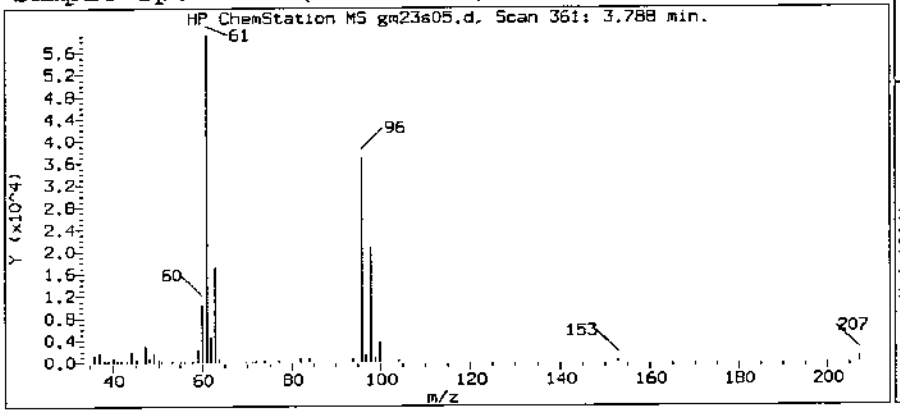


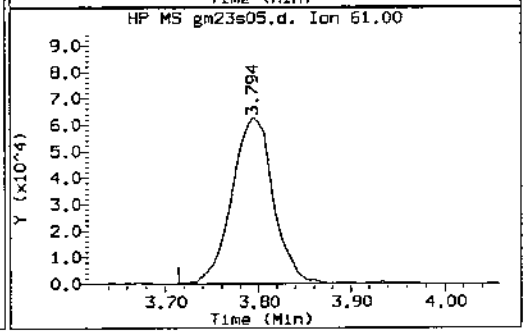
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number : 10
Compound Name : 1,1-Dichloroethene
Scan Number : 361
Retention Time (minutes): 3.788
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 107505
On-Column Amount (ng) : 1.0841

WAT13 8891

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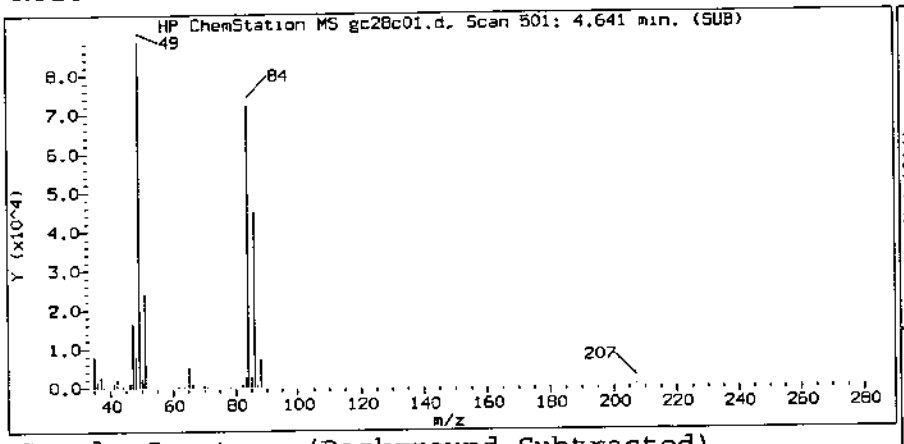
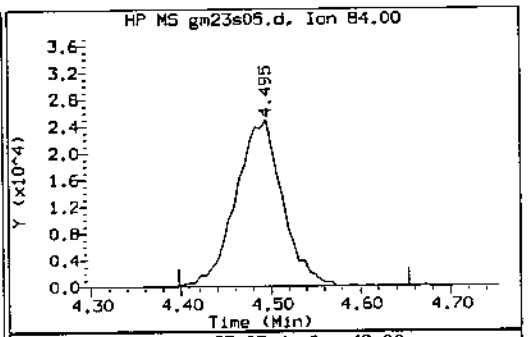
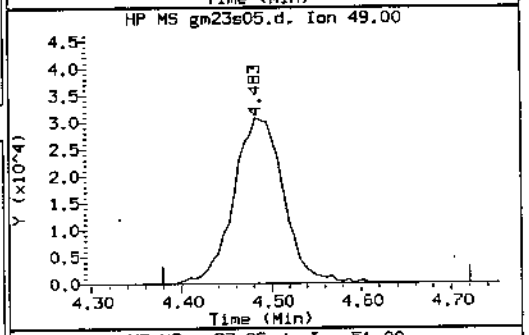
Target 3.5 esignature user ID: jml01693

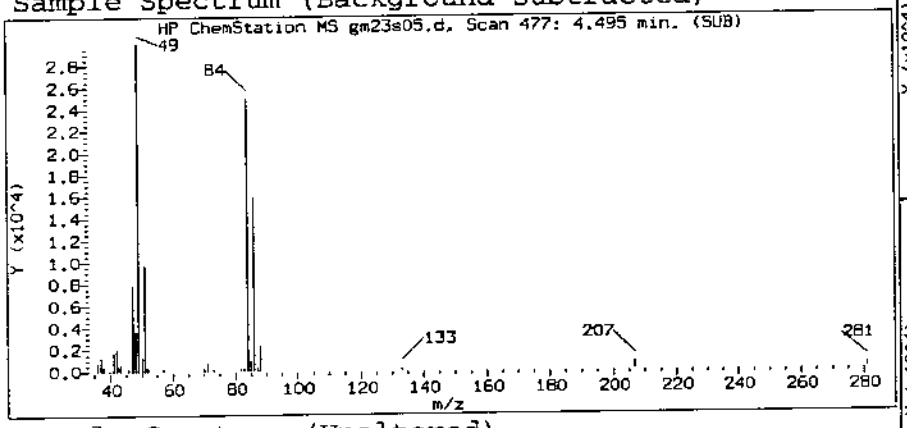
Reference Standard Spectrum for Methylene Chloride

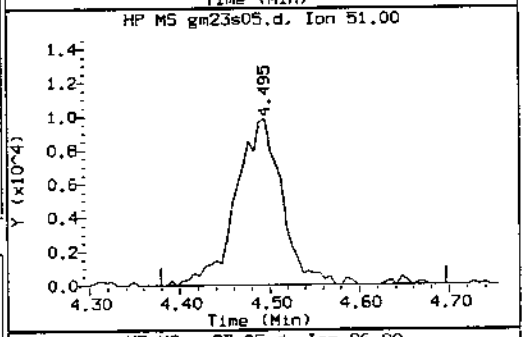




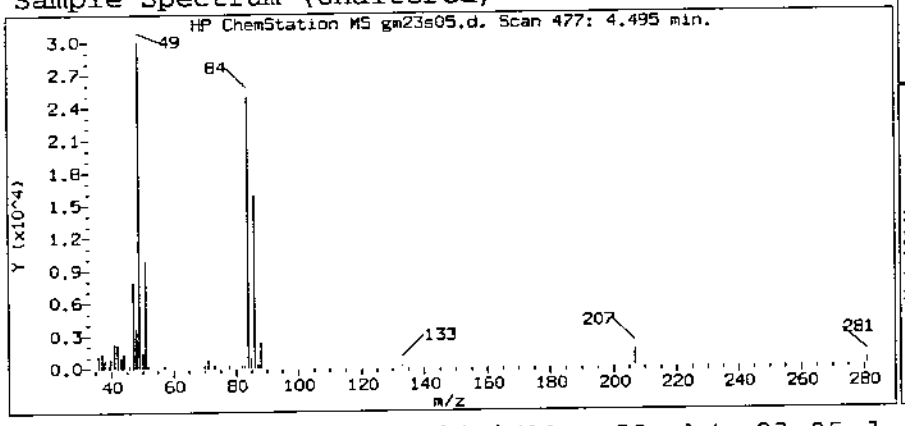


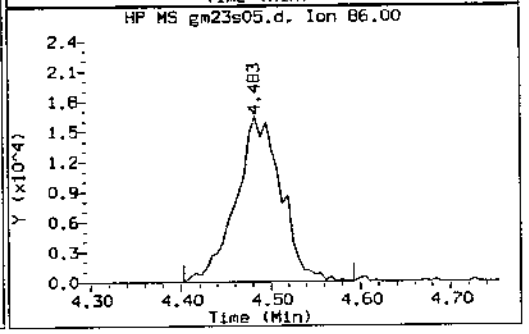
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 17
Compound Name	: Methylene Chloride
Scan Number	: 477
Retention Time (minutes)	: 4.495
Relative Retention Time	: -0.000
Quant Ion	: 84.00
Area (flag)	: 90836
On-Column Amount (ng)	: 0.9156

WAT13 3892

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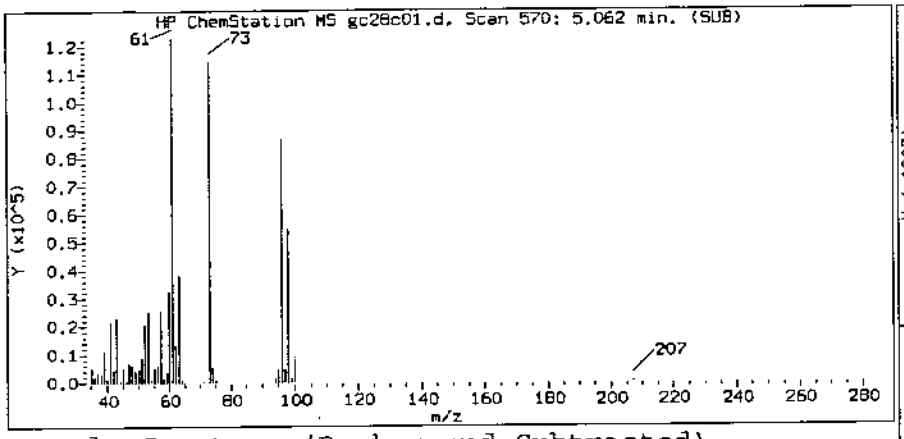
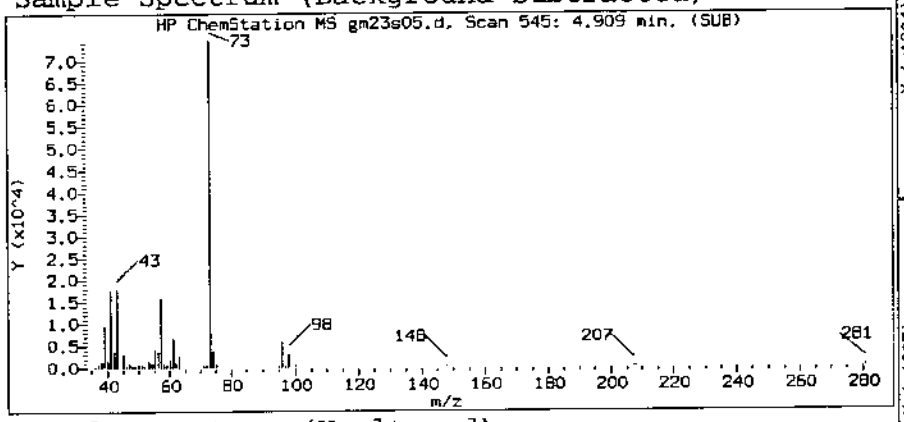
Target 3.5 esignature user ID: jml01693

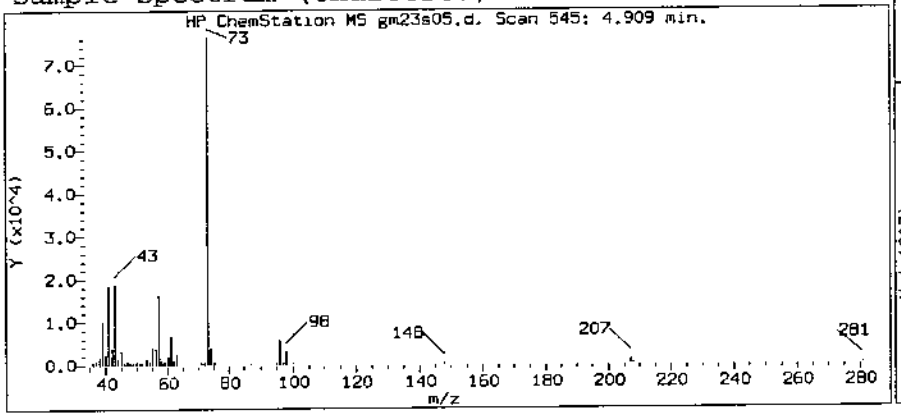
Reference Standard Spectrum for trans-1,2-Dichloroethene

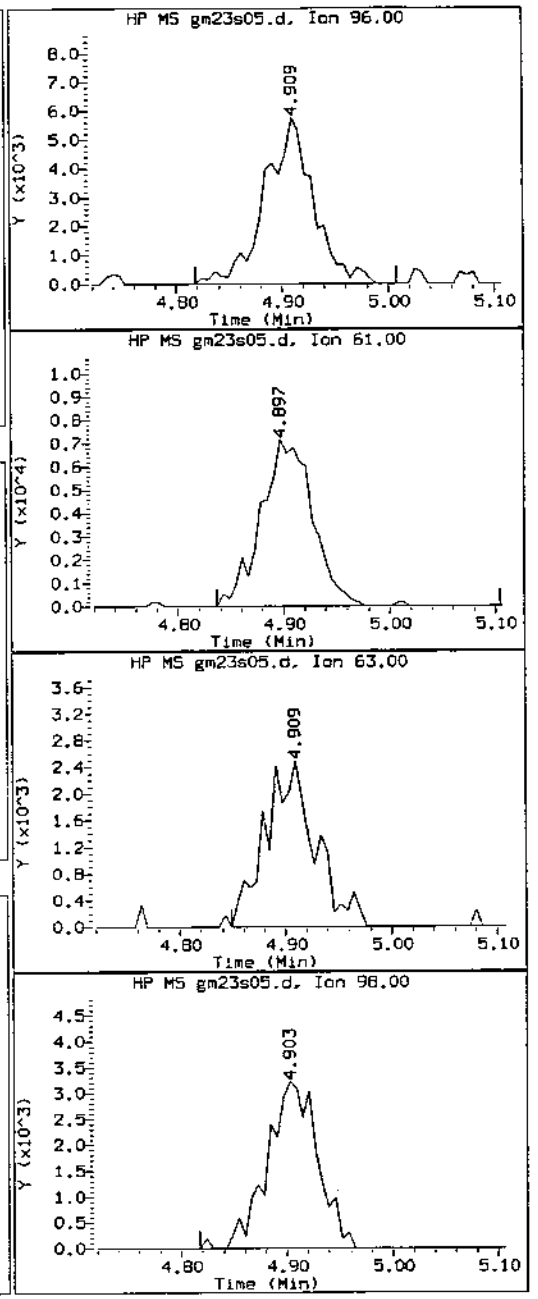


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 20
Compound Name	: trans-1,2-Dichloroethene
Scan Number	: 545
Retention Time (minutes)	: 4.909
Relative Retention Time	: -0.000
Quant Ion	: 96.00
Area (flag)	: 18334M
On-Column Amount (ng)	: 0.1564

WAT13 8693

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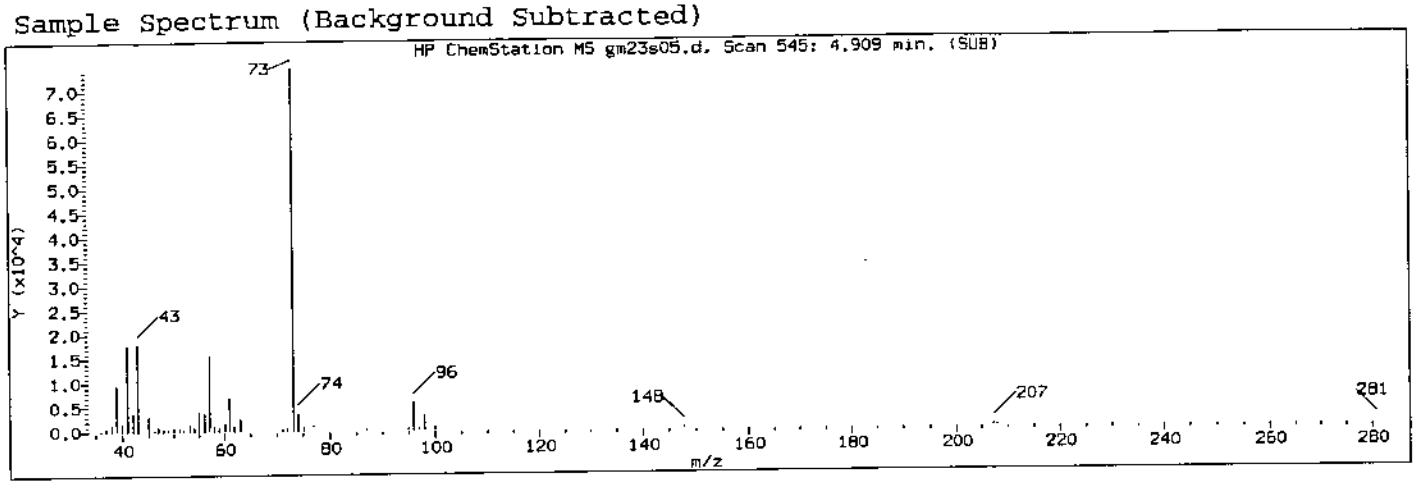
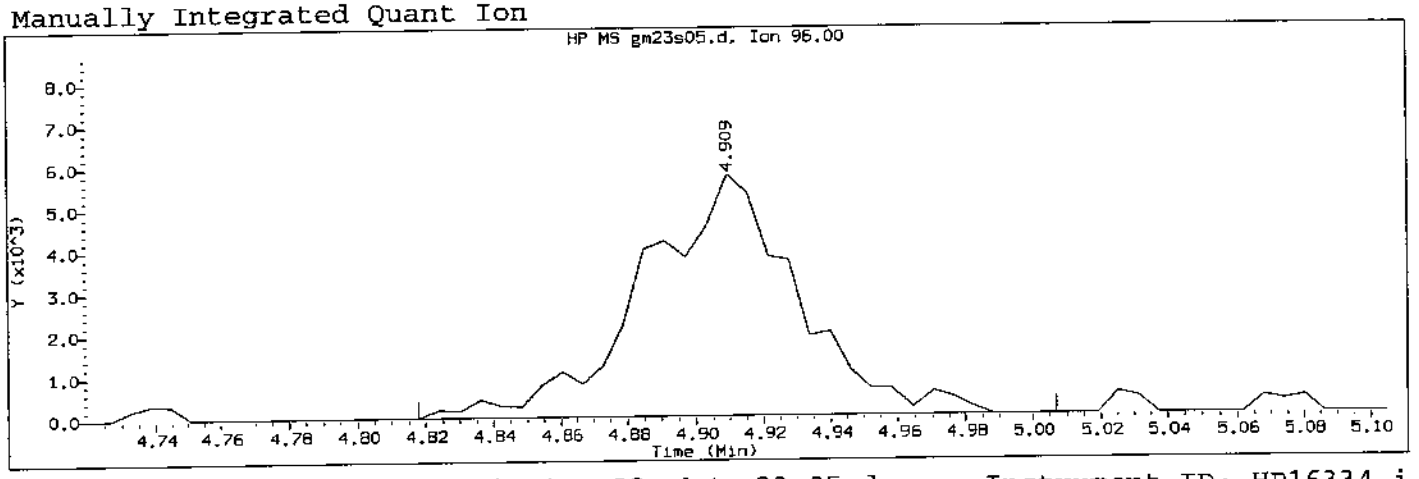
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 11:38 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233200

Compound Number : 20
Compound Name : trans-1,2-Dichloroethene
Scan Number : 545
Retention Time (minutes): 4.909
Quant Ion : 96.00
Area (flag) : 18334M
On-Column Amount (ng) : 0.1564
Integration start scan : 529 Integration stop scan: 560
Y at integration start : 0 Y at integration end: 0

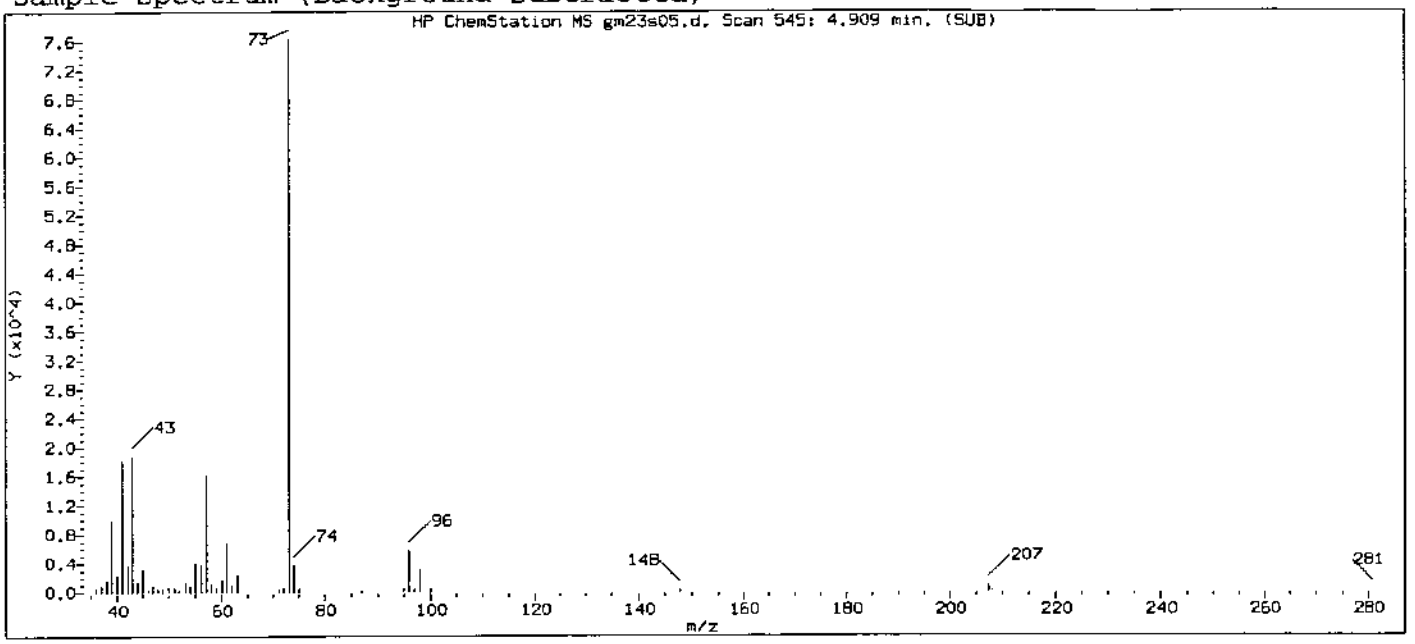
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:45. Target 3.5 esignature user ID: jml01693

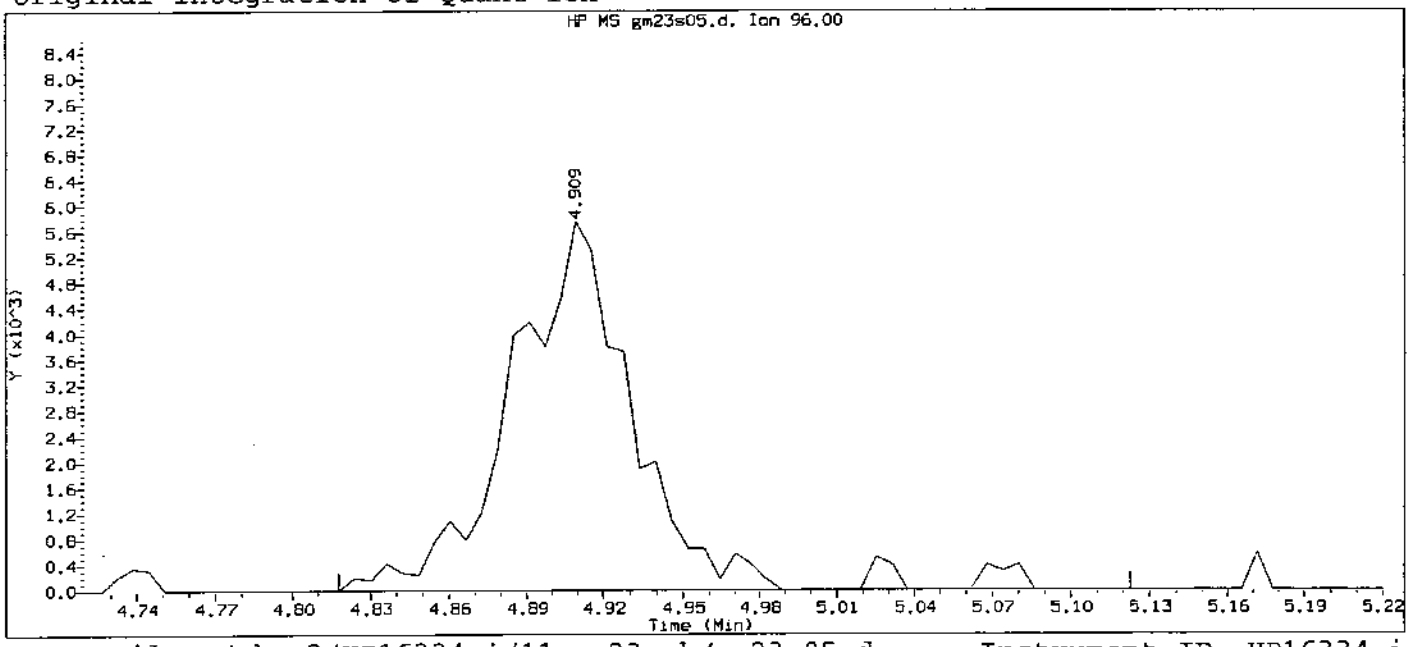
WAT13 8894

GC/MS audit/management approval: LCTD 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 11:38 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 11:57 Automation

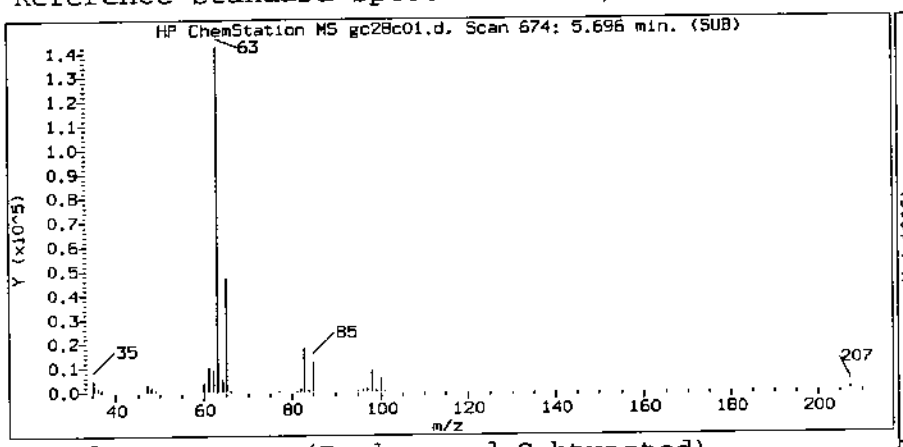
Sample Name: XXXXX Lab Sample ID: 6233200

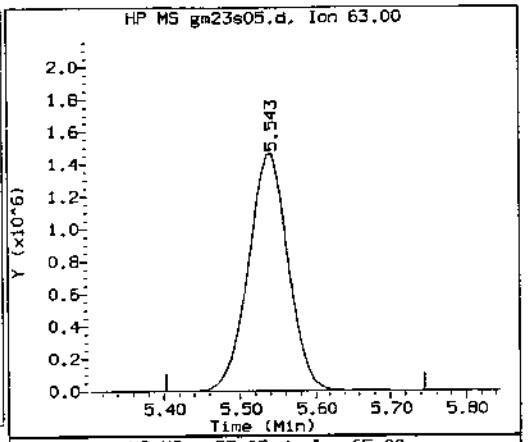
Compound Number : 20
Compound Name : trans-1,2-Dichloroethene
Scan Number : 545
Retention Time (minutes): 4.909
Quant Ion : 96.00
Area : 19072
On-column Amount (ng) : 0.1627
Integration start scan : 529 Integration stop scan: 579
Y at integration start : 0 Y at integration end: 0

WRT13 8895

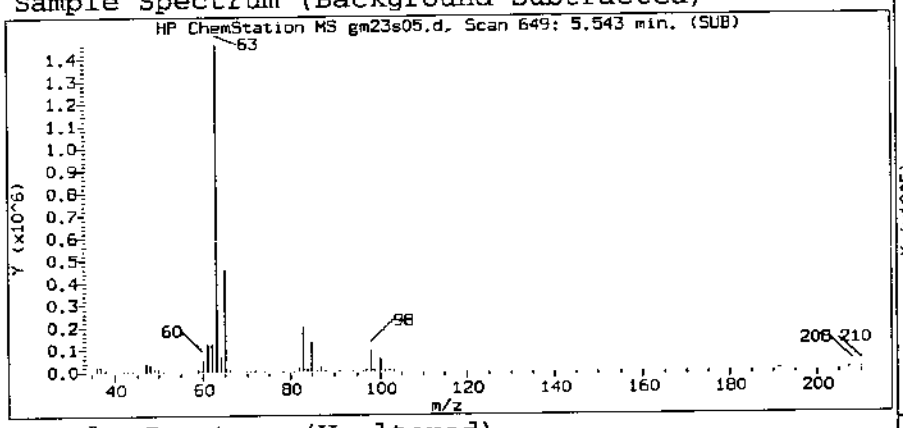
Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

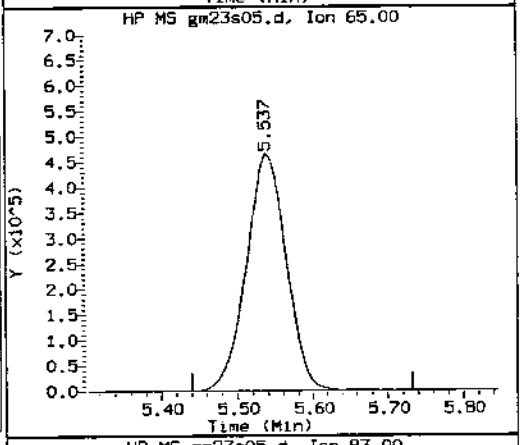
Reference Standard Spectrum for 1,1-Dichloroethane



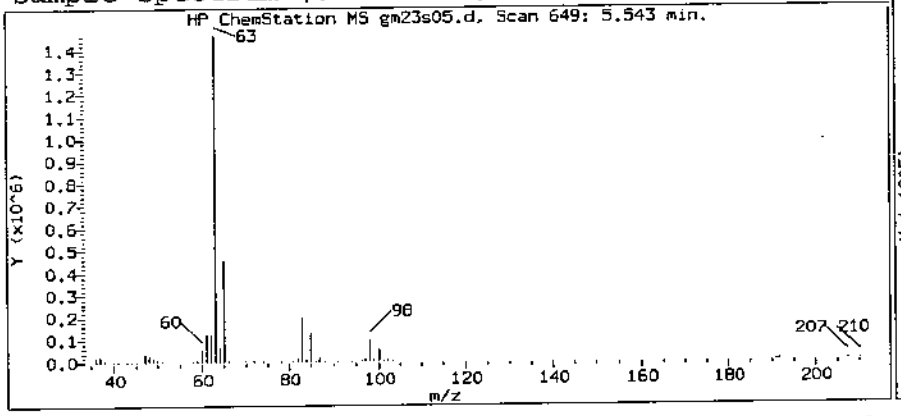


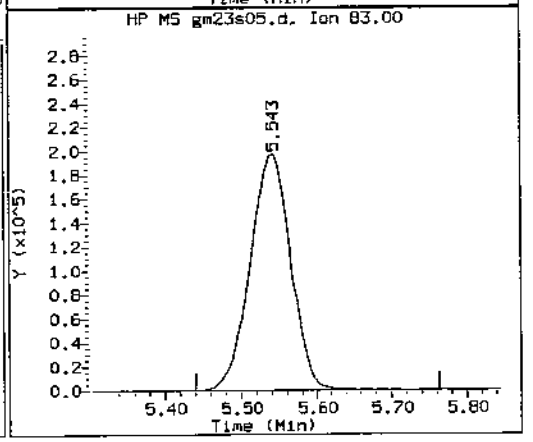
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 22
Compound Name	: 1,1-Dichloroethane
Scan Number	: 649
Retention Time (minutes)	: 5.543
Relative Retention Time	: 0.000
Quant Ion	: 63.00
Area (flag)	: 5322818
On-Column Amount (ng)	: 25.0313

WAT13 0890

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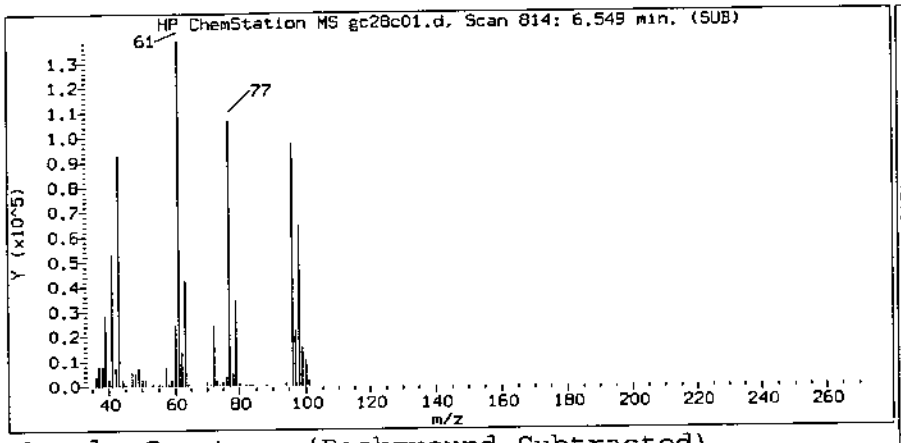
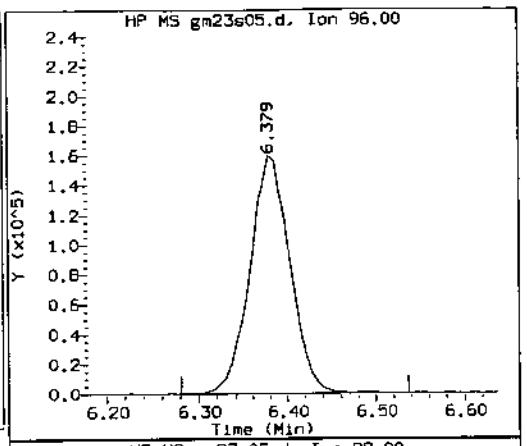
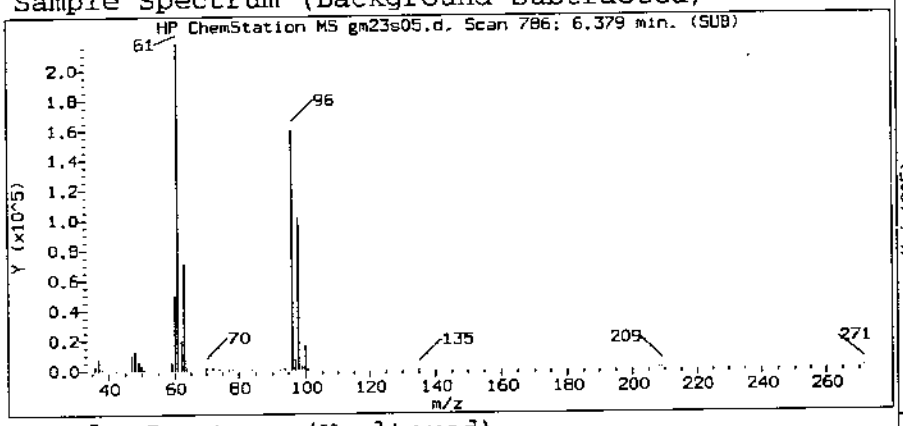
Target 3.5 esignature user ID: jml01693

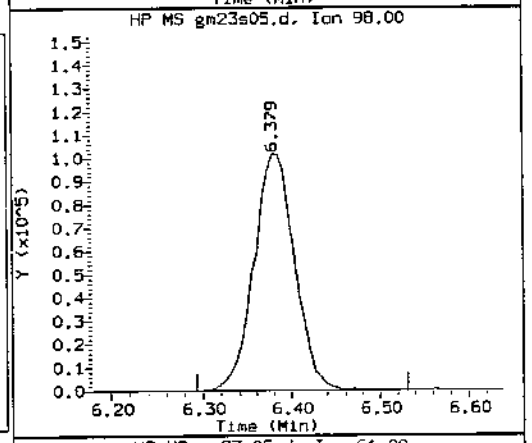
Reference Standard Spectrum for cis-1,2-Dichloroethene



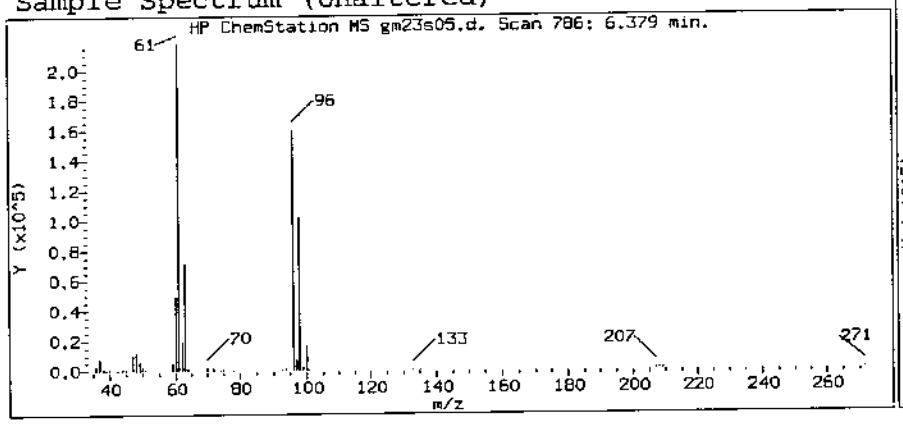


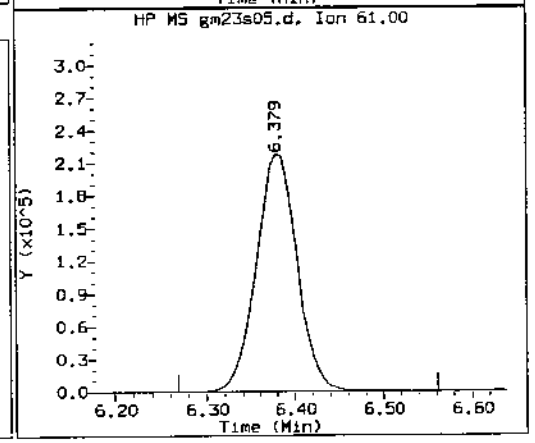
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 26
Compound Name	: cis-1,2-Dichloroethene
Scan Number	: 786
Retention Time (minutes)	: 6.379
Relative Retention Time	: 0.000
Quant Ion	: 96.00
Area (flag)	: 513716
On-Column Amount (ng)	: 4.3675

WAT13 0897

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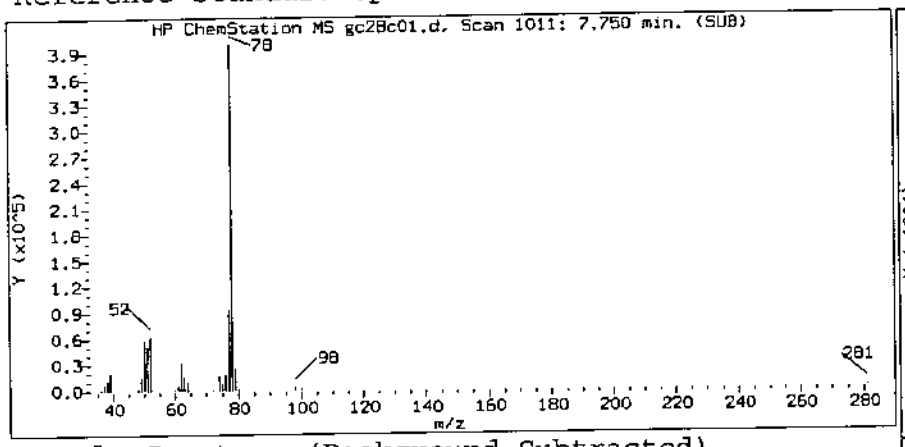
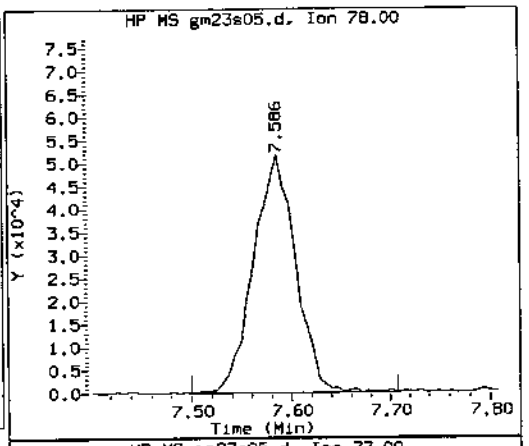
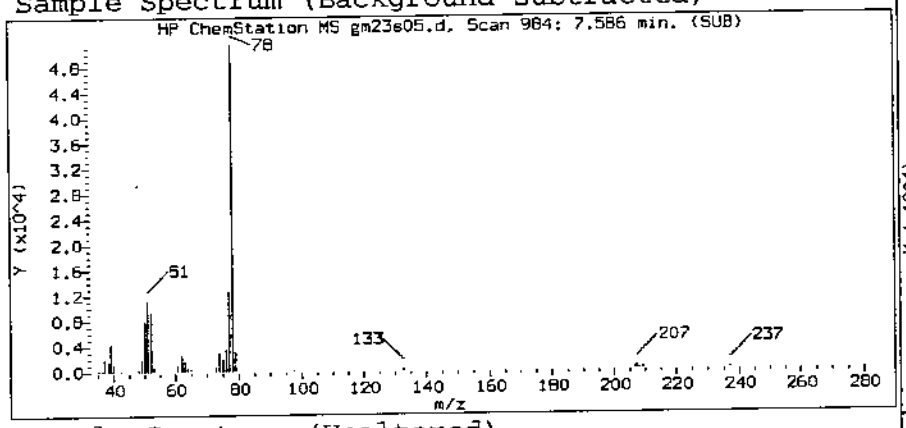
Target 3.5 esignature user ID: jml01693

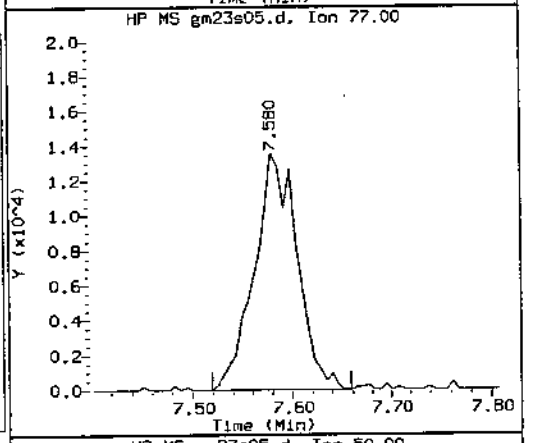
Reference Standard Spectrum for Benzene



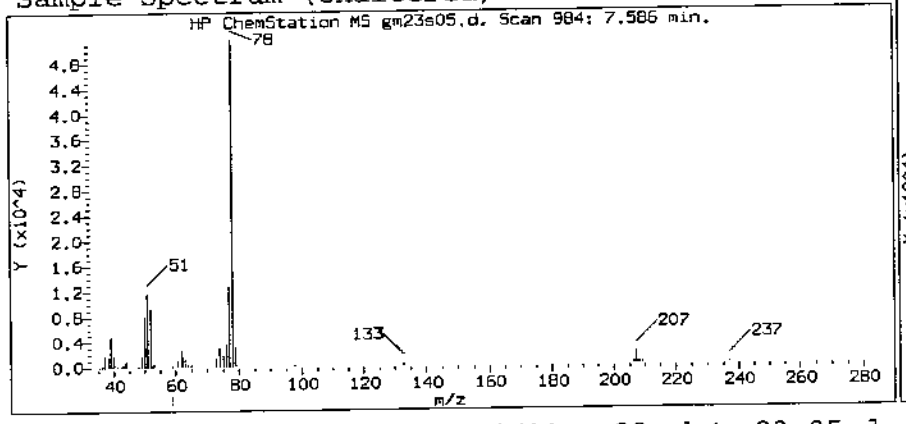


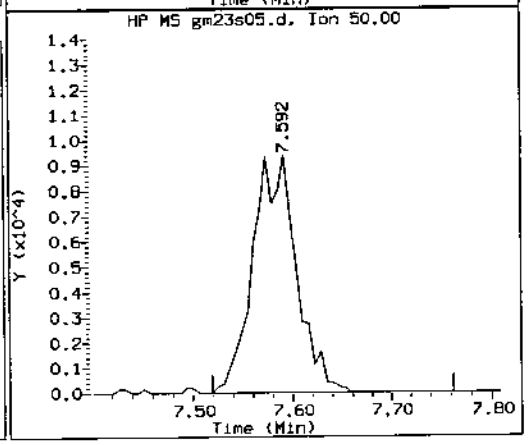
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

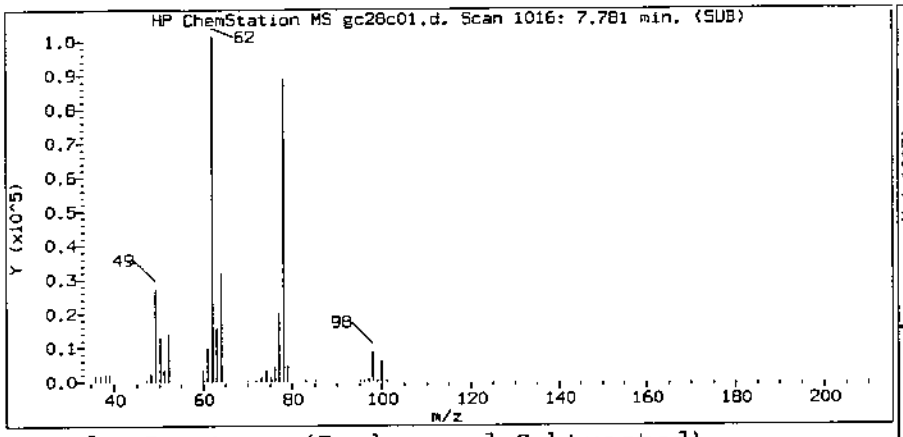
Lab Sample ID: 6233200

Compound Number	: 39
Compound Name	: Benzene
Scan Number	: 984
Retention Time (minutes)	: 7.586
Relative Retention Time	: -0.000
Quant Ion	: 78.00
Area (flag)	: 153709
On-Column Amount (ng)	: 0.3422

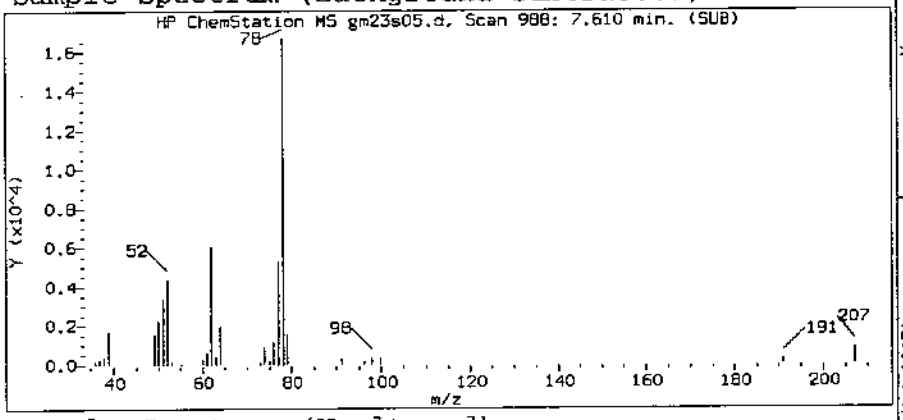
WATIS 8898

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

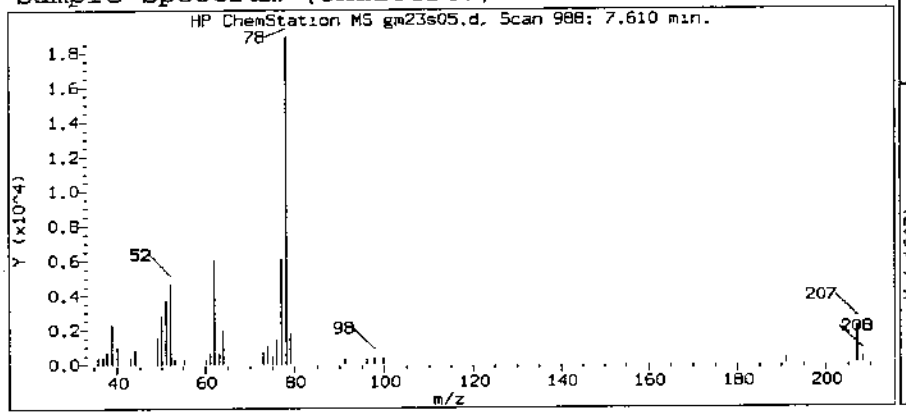
Reference Standard Spectrum for 1,2-Dichloroethane

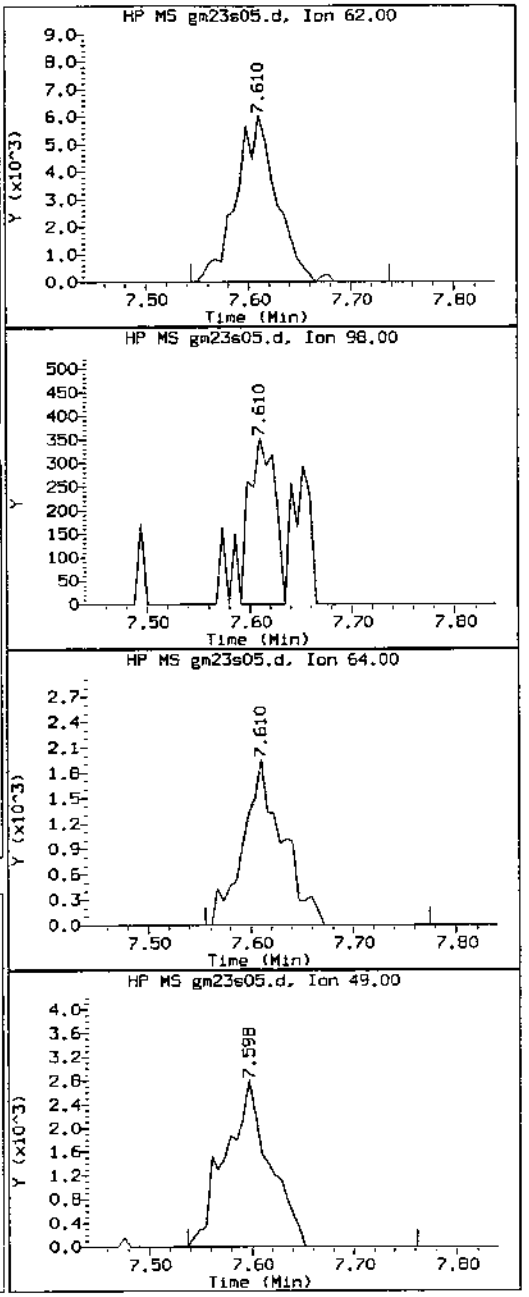


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

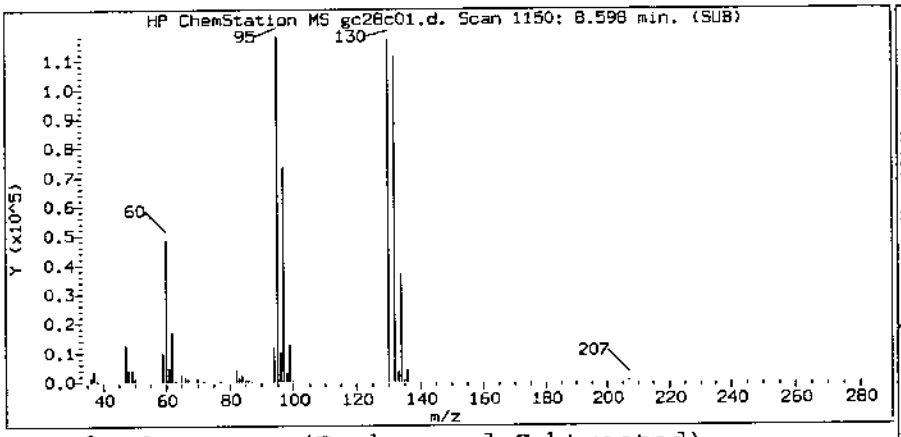
Lab Sample ID: 6233200

Compound Number : 40
Compound Name : 1,2-Dichloroethane
Scan Number : 988
Retention Time (minutes): 7.610
Relative Retention Time : 0.000
Quant Ion : 62.00
Area (flag) : 16558
On-Column Amount (ng) : 0.1662

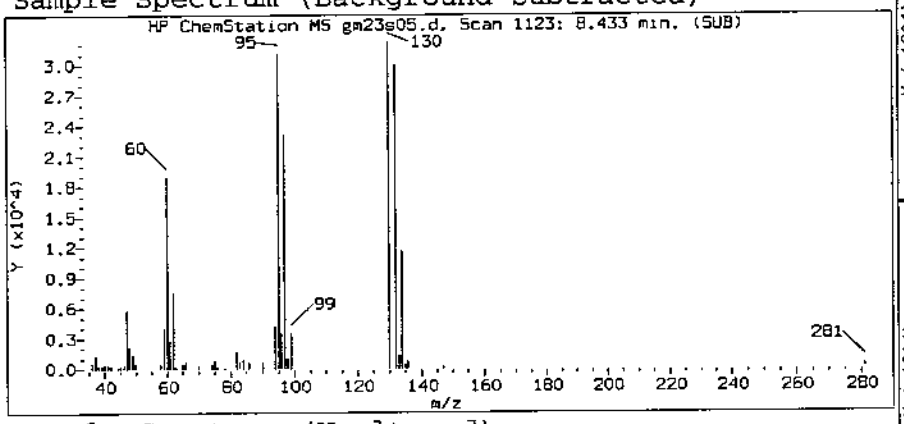
MAT13 0099

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

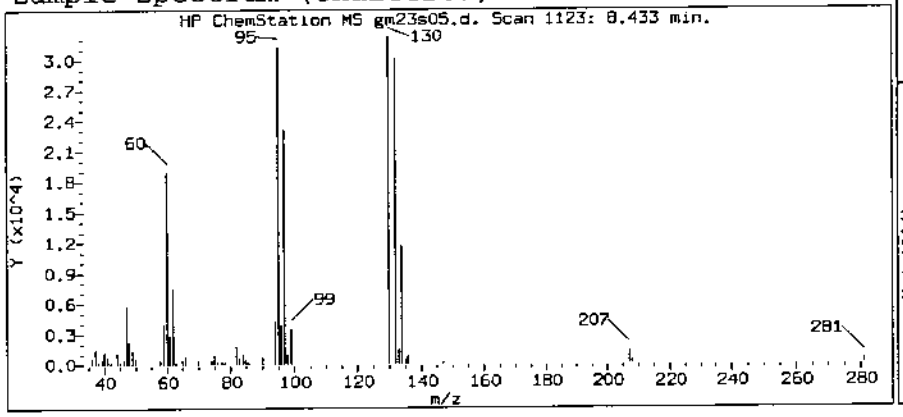
Reference Standard Spectrum for Trichloroethene

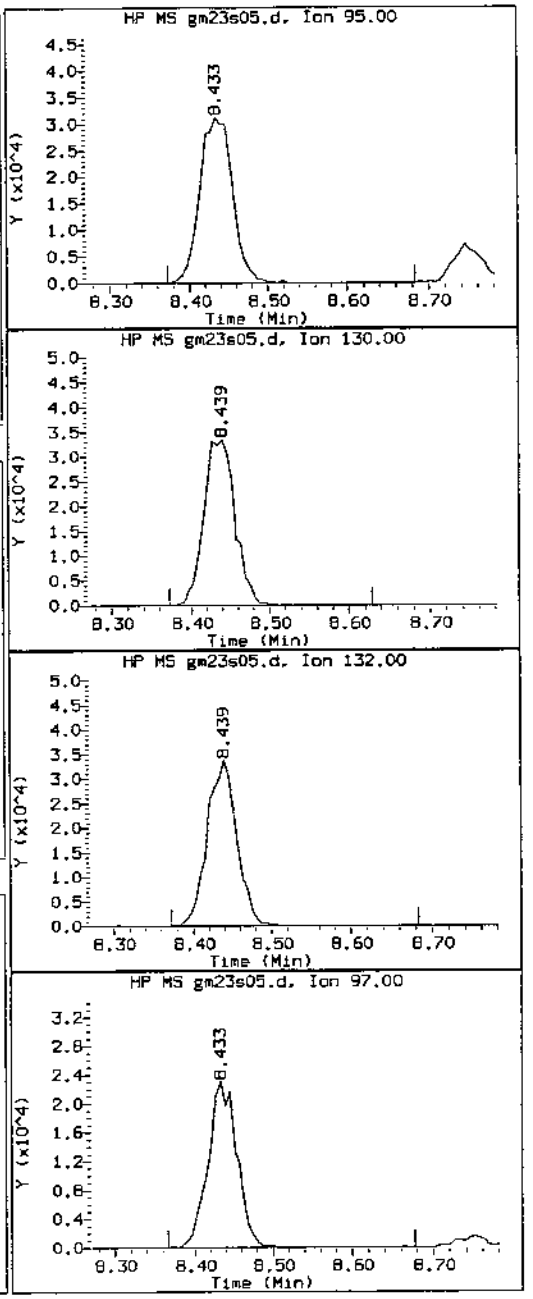


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 43
Compound Name	: Trichloroethene
Scan Number	: 1123
Retention Time (minutes)	: 8.433
Relative Retention Time	: 0.000
Quant Ion	: 95.00
Area (flag)	: 91372
On-Column Amount (ng)	: 0.7054

WAT13 0100

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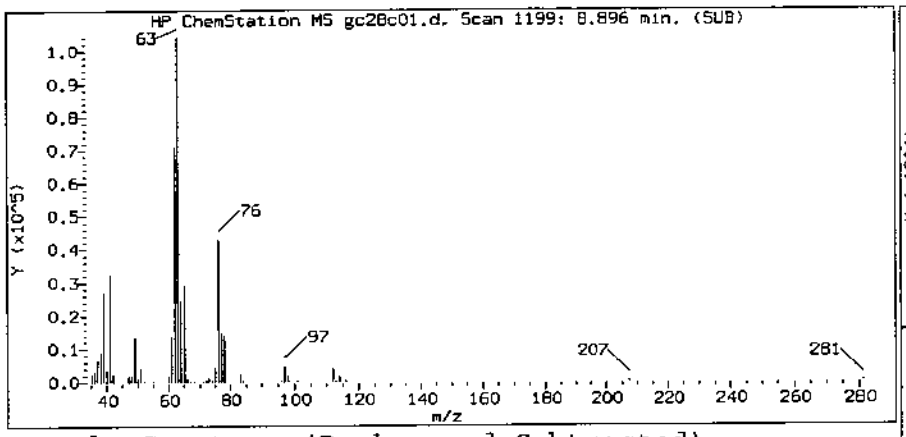
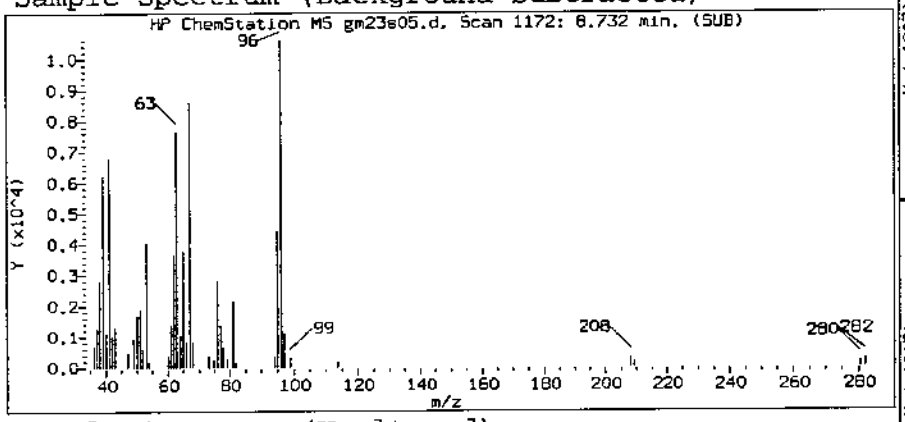
Target 3.5 esignature user ID: jml01693

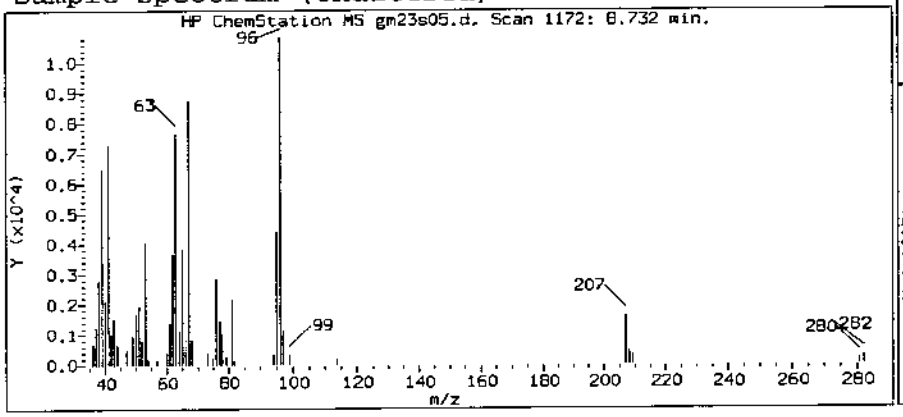
Reference Standard Spectrum for 1,2-Dichloropropane

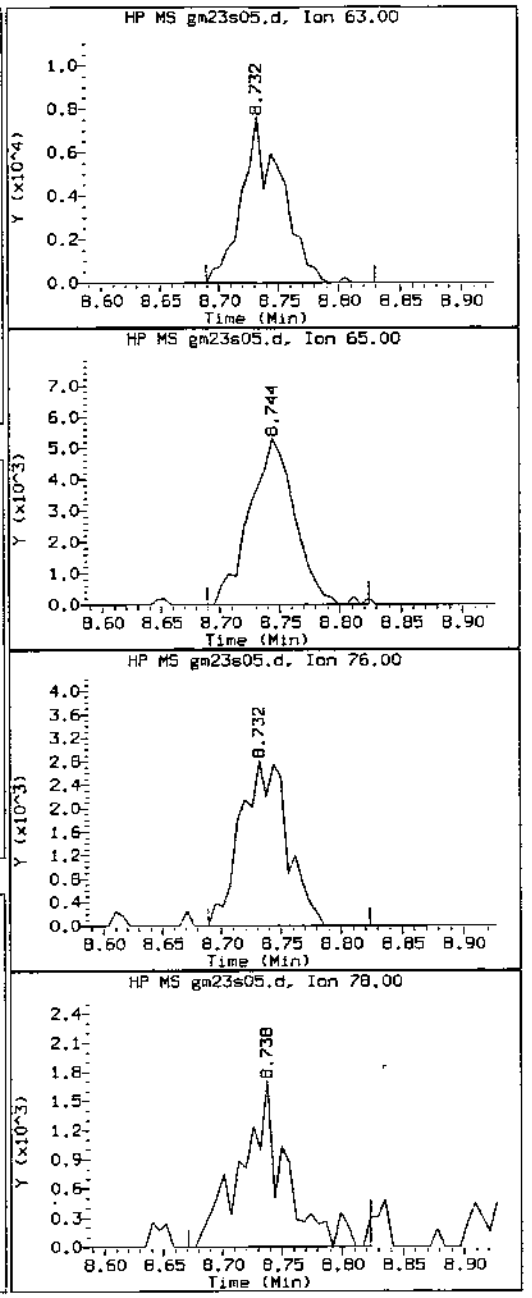


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

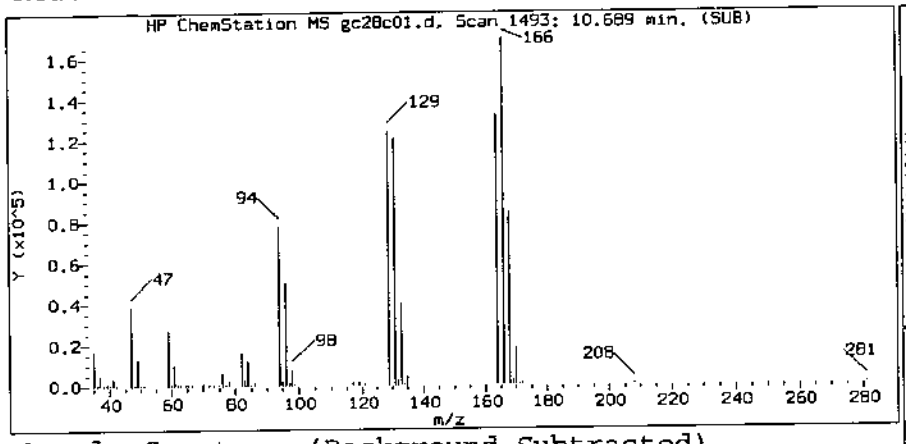
Lab Sample ID: 6233200

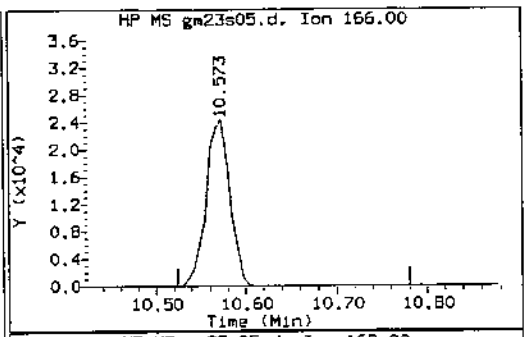
Compound Number : 44
Compound Name : 1,2-Dichloropropane
Scan Number : 1172
Retention Time (minutes): 8.732
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 17743
On-Column Amount (ng) : 0.1685

WAT13 6181

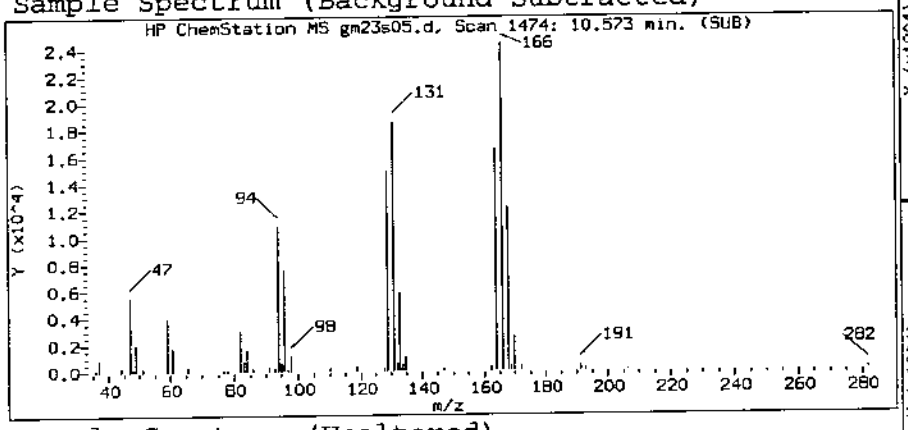
Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

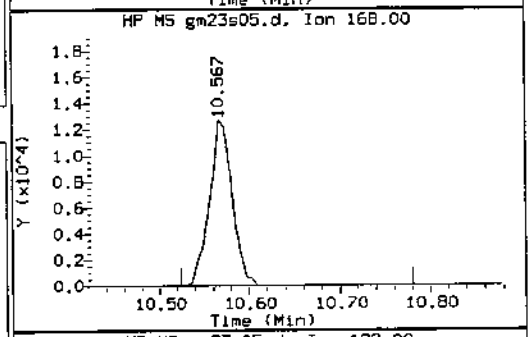
Reference Standard Spectrum for Tetrachloroethene

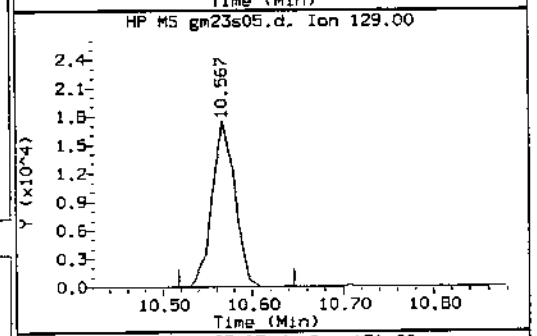




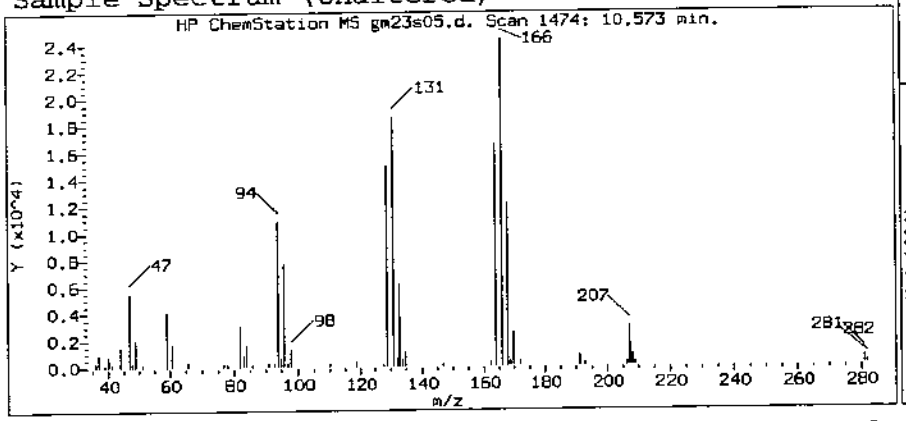
Sample Spectrum (Background Subtracted)

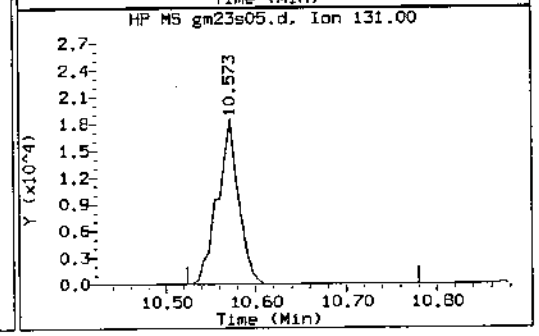






Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

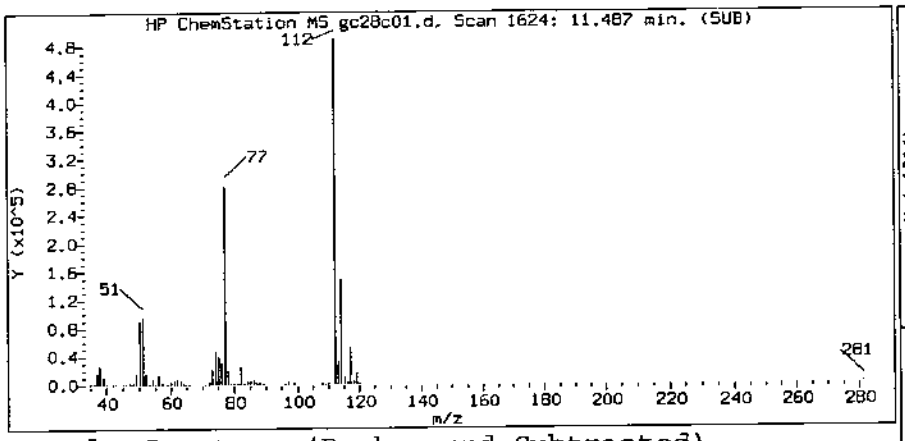
Lab Sample ID: 6233200

Compound Number : 58
Compound Name : Tetrachloroethene
Scan Number : 1474
Retention Time (minutes): 10.573
Relative Retention Time : -0.000
Quant Ion : 166.00
Area (flag) : 45232
On-Column Amount (ng) : 0.2916

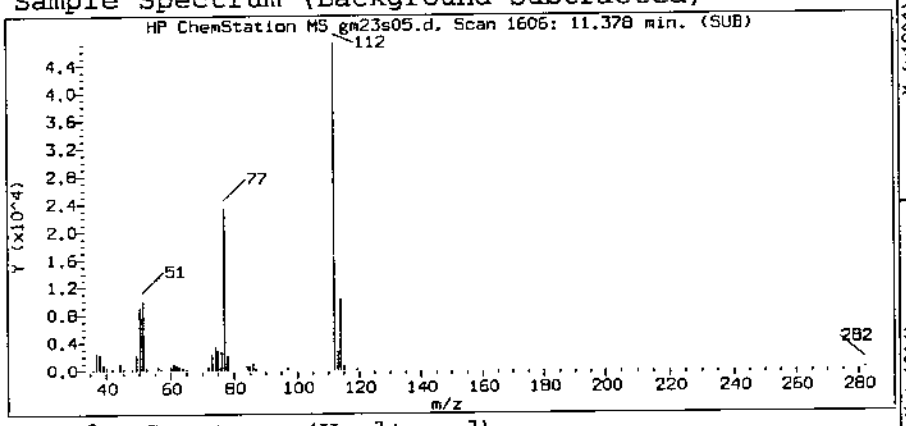
WAT13 8182

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

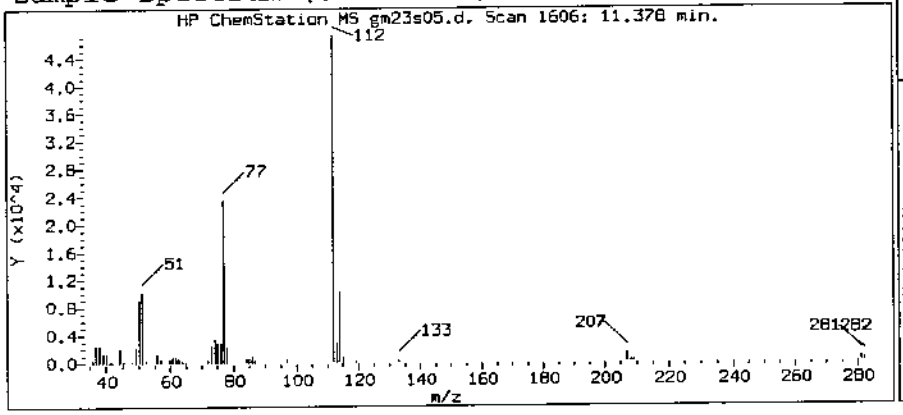
Reference Standard Spectrum for Chlorobenzene

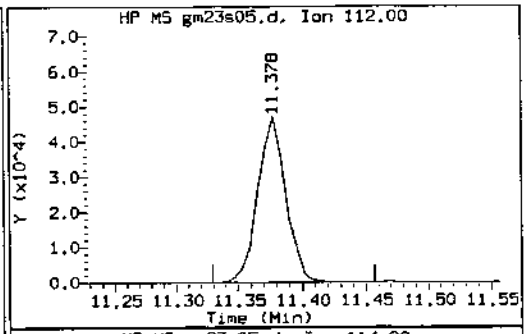


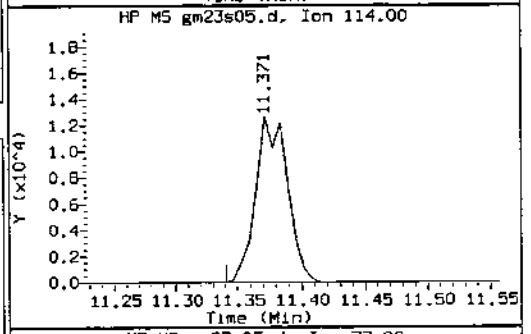
Sample Spectrum (Background Subtracted)

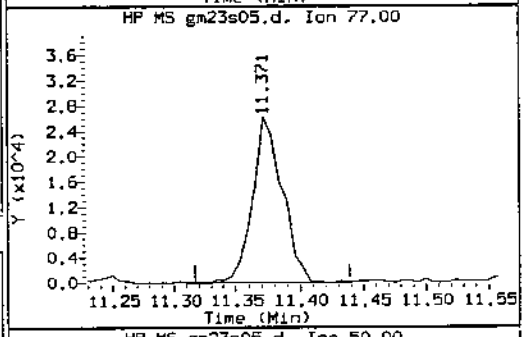


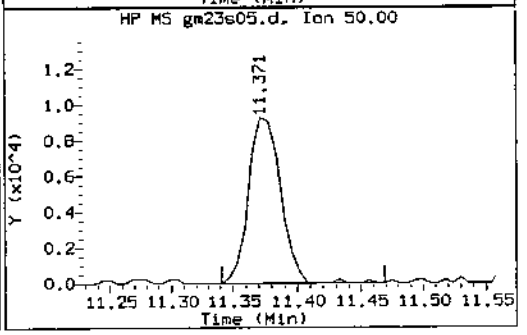
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

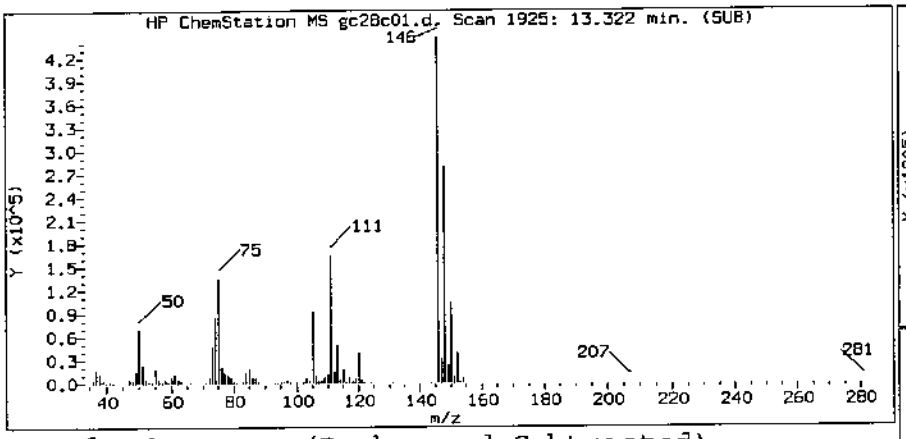
Lab Sample ID: 6233200

Compound Number	: 64
Compound Name	: Chlorobenzene
Scan Number	: 1606
Retention Time (minutes)	: 11.378
Relative Retention Time	: -0.000
Quant Ion	: 112.00
Area (flag)	: 71113
On-Column Amount (ng)	: 0.2330

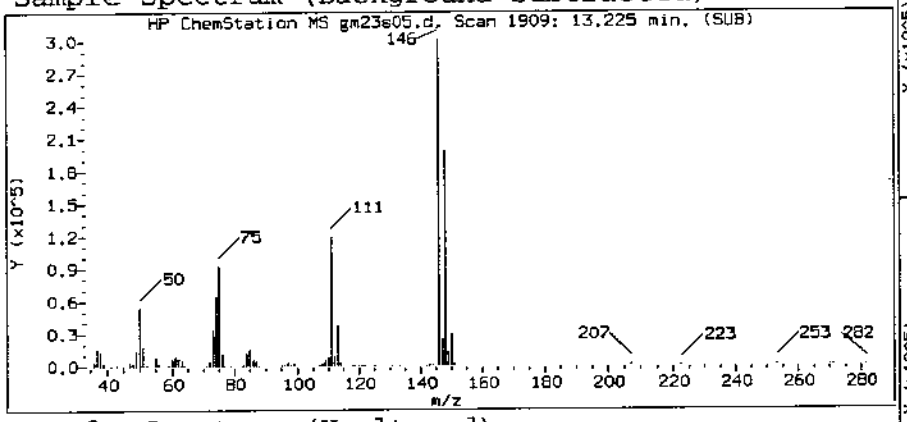
WAT13 8183

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

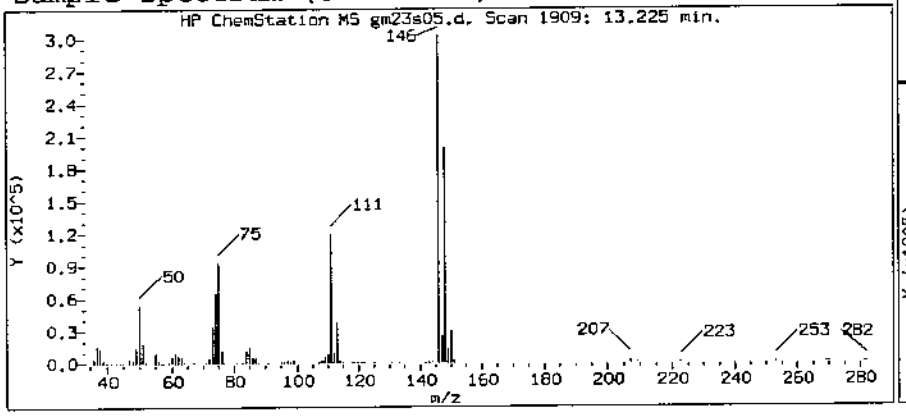
Reference Standard Spectrum for 1,4-Dichlorobenzene

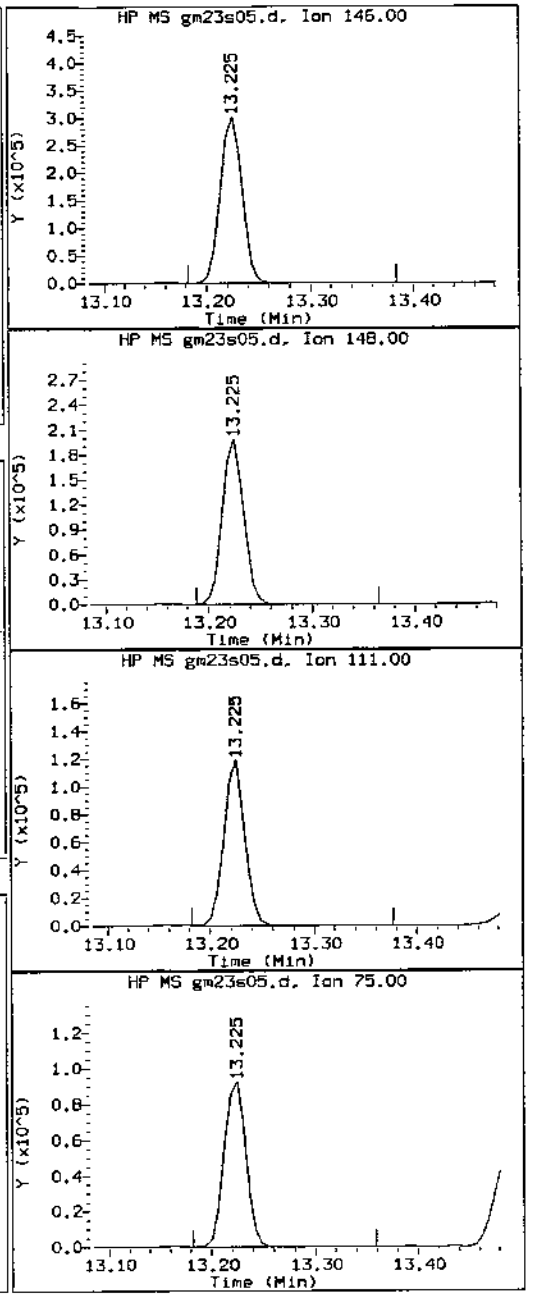


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s05.d
Injection date and time: 23-MAR-2011 11:38

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233200

Compound Number	: 88
Compound Name	: 1,4-Dichlorobenzene
Scan Number	: 1909
Retention Time (minutes)	: 13.225
Relative Retention Time	: -0.000
Quant Ion	: 146.00
Area (flag)	: 437371
On-Column Amount (ng)	: 1.7638

VAT13 0104

Digitally signed by Jason M. Long on 03/23/2011 at 13:45.
Target 3.5 esignature user ID: jml01693

XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233200DL

Data file: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Data file Sample Info. Line: XXXXXDL;6233200DL;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 12:45**
Instrument ID: **HP16334.i** Batch: **G11082IAA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **5.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 5 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.951(0.006)	1044	96	1803644 (-9)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(-0.001)	174	557482	5.075	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.481(-0.001)	152	587007	5.006	100%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					1	3
2) Chloromethane	(1)			Not Detected					1	3
3) Vinyl Chloride	(1)			Not Detected					0.5	3
4) Bromomethane	(1)			Not Detected					0.5	3
5) Chloroethane	(1)	2.836(0.001)	64	86385	1.063	5.31			1	3
7) Trichlorofluoromethane	(1)			Not Detected					1	3
10) 1,1-Dichloroethene	(1)	3.788(0.000)	96	19484M	0.202	1.01		J	0.5	3
17) Methylene Chloride	(1)			Not Detected					2	3
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.5	3
22) 1,1-Dichloroethane	(1)	5.531(0.001)	63	896438	4.328	21.64			0.5	3
26) cis-1,2-Dichloroethene	(1)	6.378(0.000)	96	88048M	0.769	3.84			0.5	3
27) 2,2-Dichloropropane	(1)			Not Detected					1	3
32) Bromochloromethane	(1)			Not Detected					0.5	3
34) Chloroform	(1)			Not Detected					0.5	3
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.5	3
38) 1,1-Dichloropropene	(1)			Not Detected					0.5	3
37) Carbon Tetrachloride	(1)			Not Detected					0.5	3
39) Benzene	(1)			Not Detected					0.5	3
40) 1,2-Dichloroethane	(1)			Not Detected					0.5	3
43) Trichloroethene	(1)	8.433(-0.000)	95	14694M	0.116	0.58		J	0.5	3
44) 1,2-Dichloropropane	(1)			Not Detected					0.5	3
46) Dibromomethane	(1)			Not Detected					0.5	3
47) Bromodichloromethane	(1)			Not Detected					0.5	3
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.5	3
53) Toluene	(1)			Not Detected					0.5	3
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.5	3
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.5	3
58) Tetrachloroethene	(1)			Not Detected					0.5	3
59) 1,3-Dichloropropane	(1)			Not Detected					0.5	3
61) Dibromochloromethane	(1)			Not Detected					0.5	3
62) 1,2-Dibromoethane	(1)			Not Detected					0.5	3
64) Chlorobenzene	(1)			Not Detected					0.5	3
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.5	3
66) Ethylbenzene	(1)			Not Detected					1	3
67) m+p-Xylene	(1)			Not Detected					1	3
70) Xylene (Total)	(1)			Not Detected						

WHT13 9185

M = Compound was manually integrated.

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jm101693

XXXXXDL

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233200DL

Data file: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Data file Sample Info. Line: XXXXXDL;6233200DL;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Injection date and time: **23-MAR-2011 12:45**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39B** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **5.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 5 ml

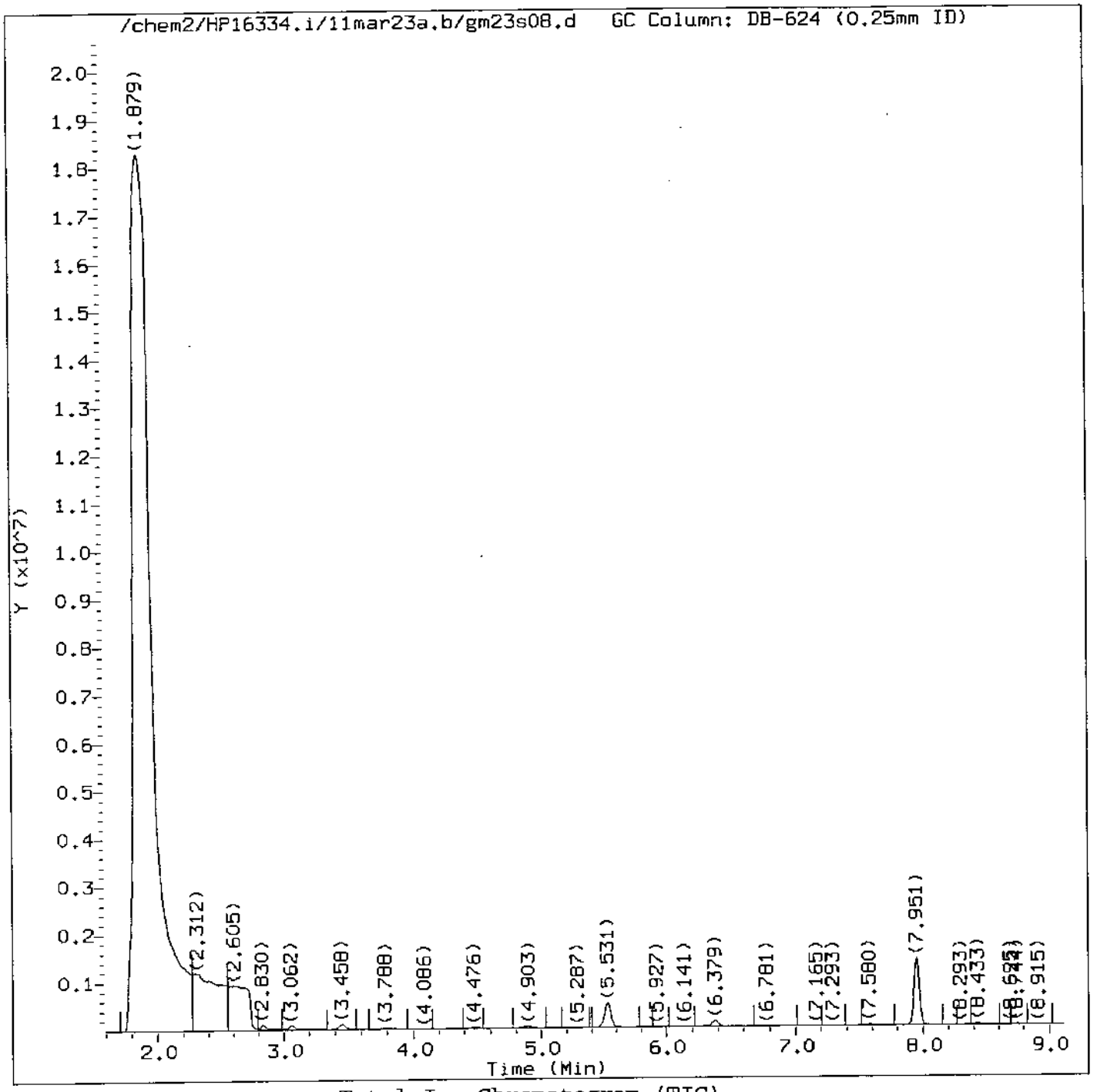
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
68) o-Xylene	(1)				Not Detected					0.5	3
69) Styrene	(1)				Not Detected					0.5	3
71) Bromoform	(1)				Not Detected					1	3
72) Isopropylbenzene	(1)				Not Detected					0.5	3
81) 4-Chlorotoluene	(1)				Not Detected					1	3
79) 2-Chlorotoluene	(1)				Not Detected					0.5	3
75) Bromobenzene	(1)				Not Detected					0.5	3
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.5	3
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.5	3
78) n-Propylbenzene	(1)				Not Detected					0.5	3
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.5	3
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.5	3
89) n-Butylbenzene	(1)				Not Detected					1	3
82) tert-Butylbenzene	(1)				Not Detected					0.5	3
85) sec-Butylbenzene	(1)				Not Detected					0.5	3
86) p-Isopropyltoluene	(1)				Not Detected					0.5	3
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.5	3
88) 1,4-Dichlorobenzene	(1)	13.225	(-0.001)	146	74181	0.307	1.54		J	0.5	3
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.5	3
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					2	3
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					1	3
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					1	3
96) Hexachlorobutadiene	(1)				Not Detected					1	3
97) Naphthalene	(1)				Not Detected					1	3

Total number of targets = 60

WAT13 8186

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

Auditor: LCTOR Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

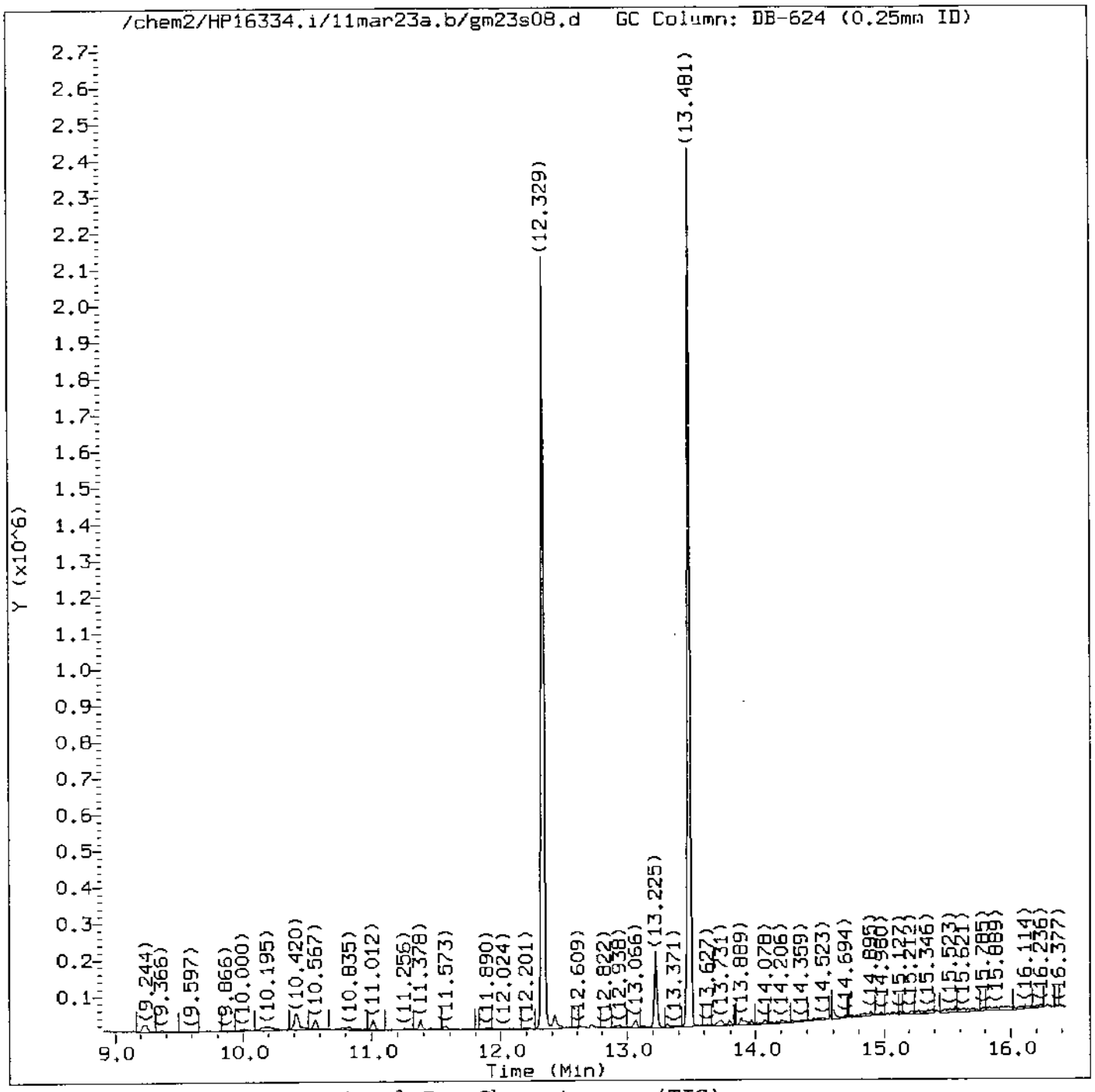
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6233200DL

WATER 8127

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6233200DL

WAT13 8188

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6233200DL

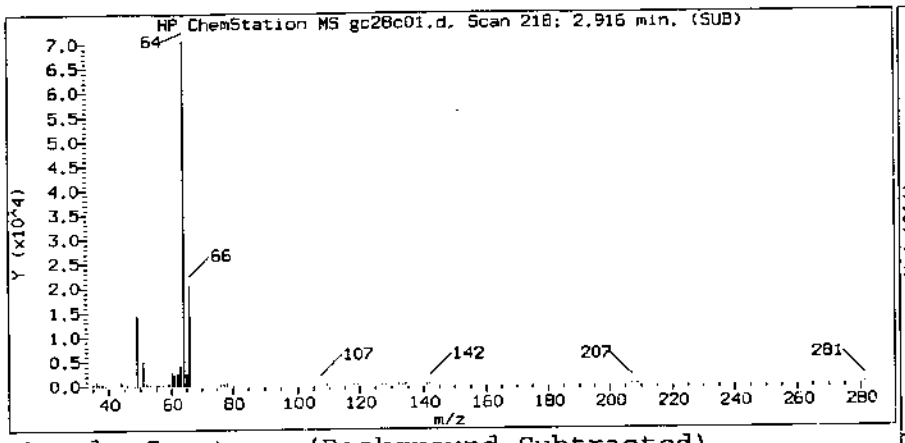
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
5) Chloroethane	(1)	2.837	64	86385	1.063
10) 1,1-Dichloroethene	(1)	3.788	96	19484M	0.202
22) 1,1-Dichloroethane	(1)	5.531	63	896438	4.328
26) cis-1,2-Dichloroethene	(1)	6.379	96	88048M	0.769
42) *Fluorobenzene	(1)	7.951	96	1803644	5.000
43) Trichloroethene	(1)	8.433	95	14694M	0.116
73) $4-Bromofluorobenzene	(1)	12.335	174	557482	5.075
88) 1,4-Dichlorobenzene	(1)	13.225	146	74181	0.307
90) $1,2-Dichlorobenzene-d4	(1)	13.481	152	587007	5.006

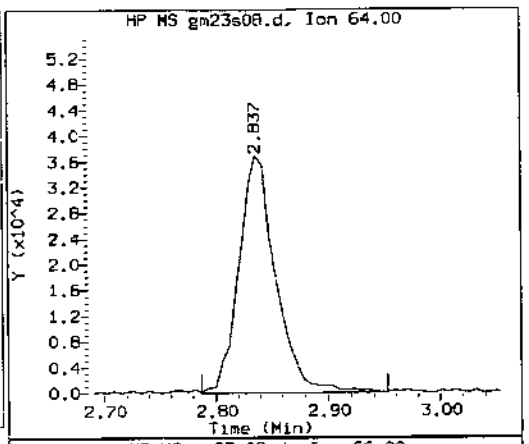
M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 8189

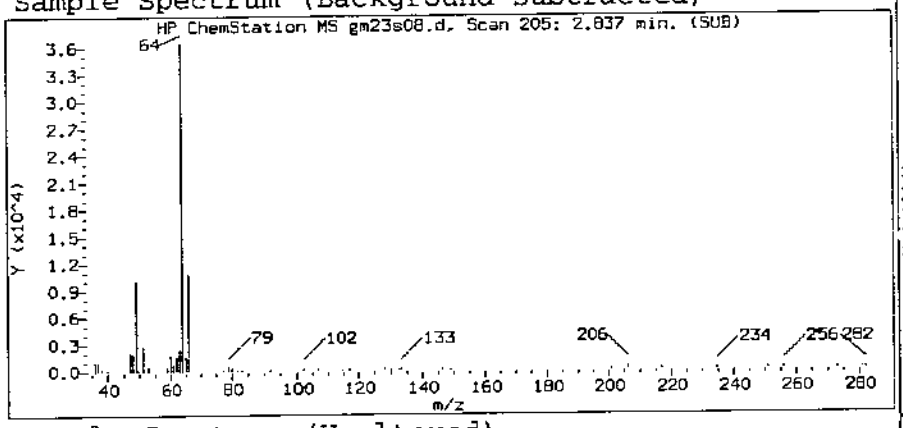
Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

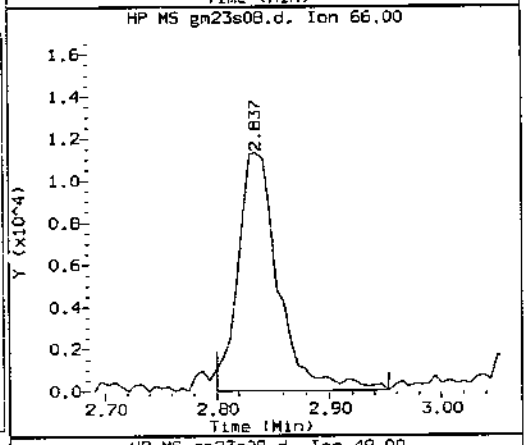
Reference Standard Spectrum for Chloroethane



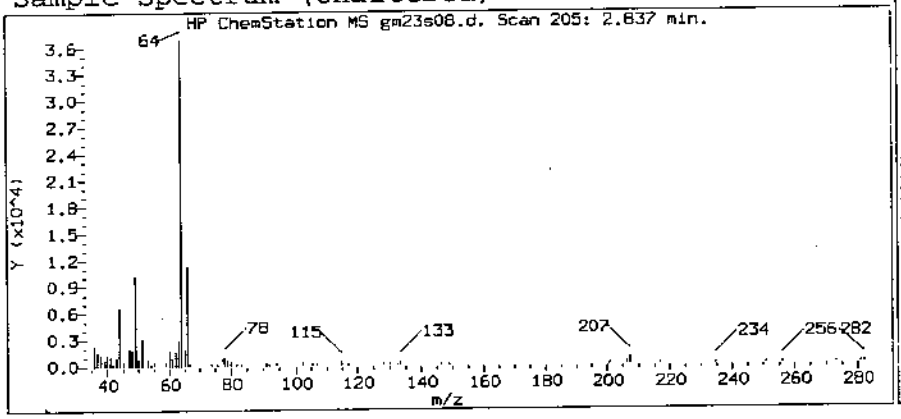


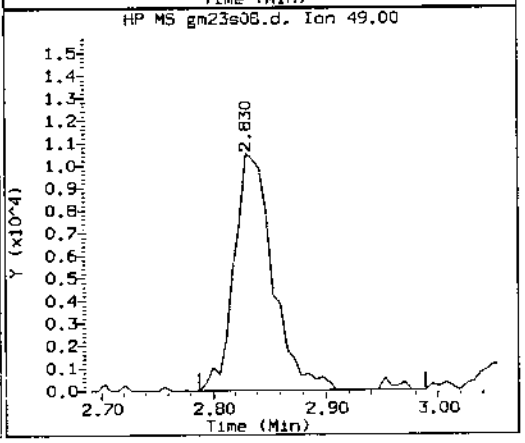
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

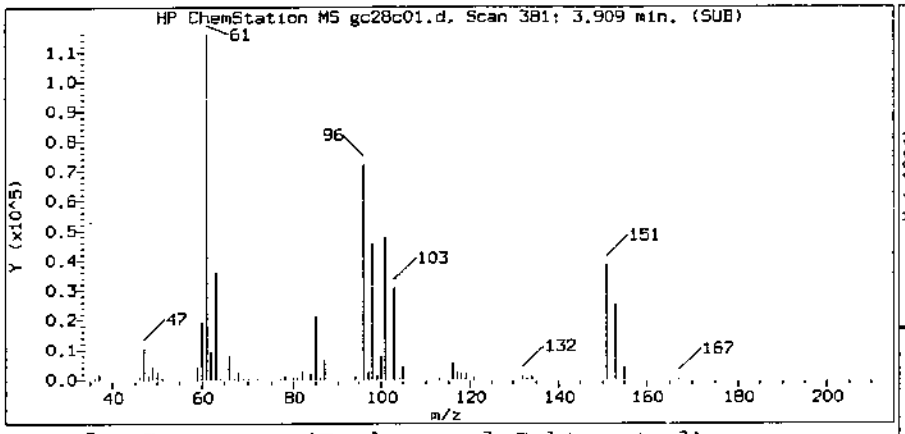
Lab Sample ID: 6233200DL

Compound Number	: 5
Compound Name	: Chloroethane
Scan Number	: 205
Retention Time (minutes)	: 2.837
Relative Retention Time	: 0.001
Quant Ion	: 64.00
Area (flag)	: 86385
On-Column Amount (ng)	: 1.0626

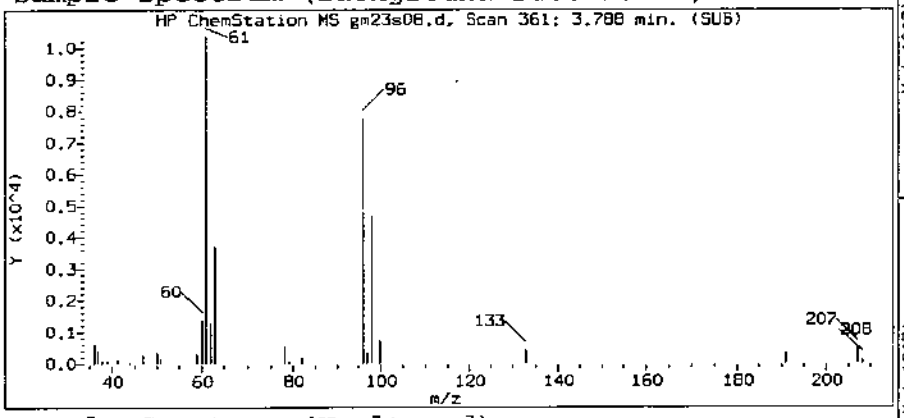
WAT13 8118

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

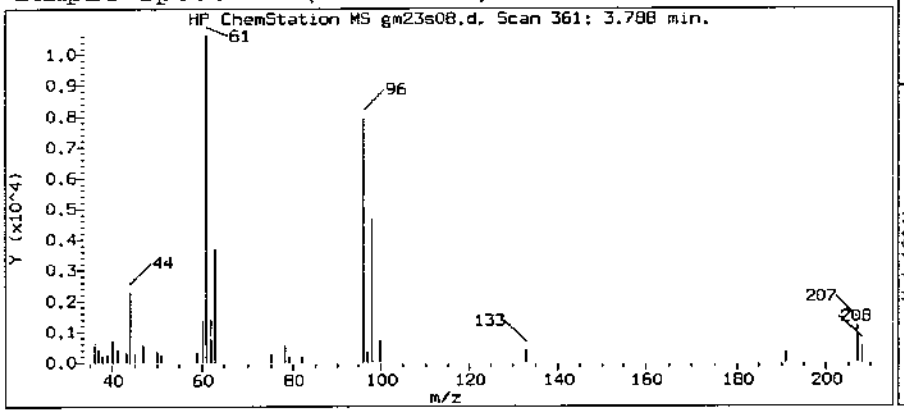
Reference Standard Spectrum for 1,1-Dichloroethene

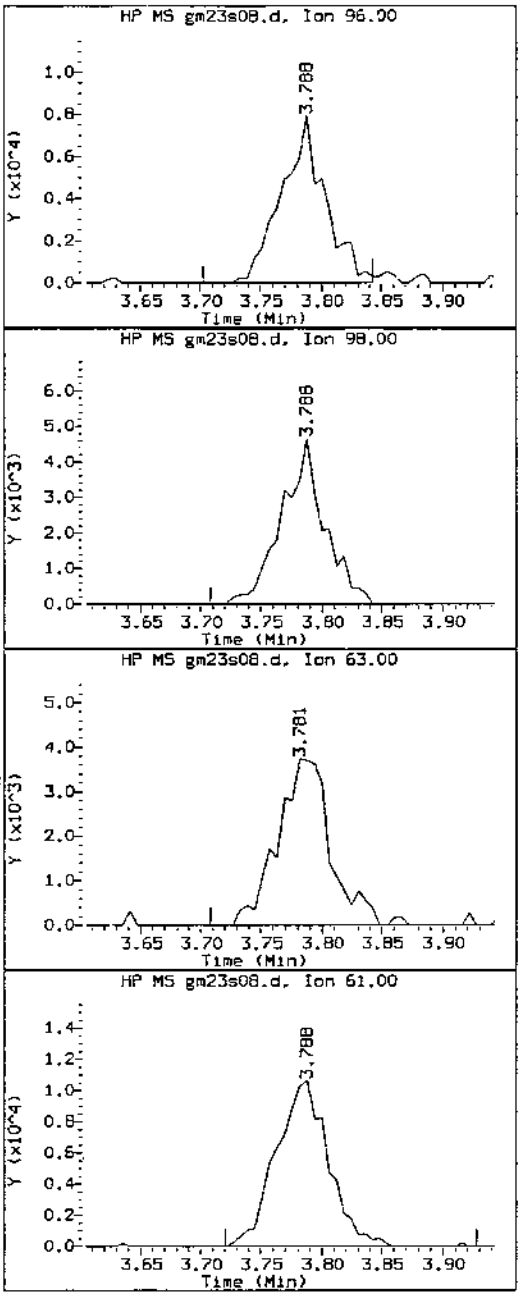


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXXDL

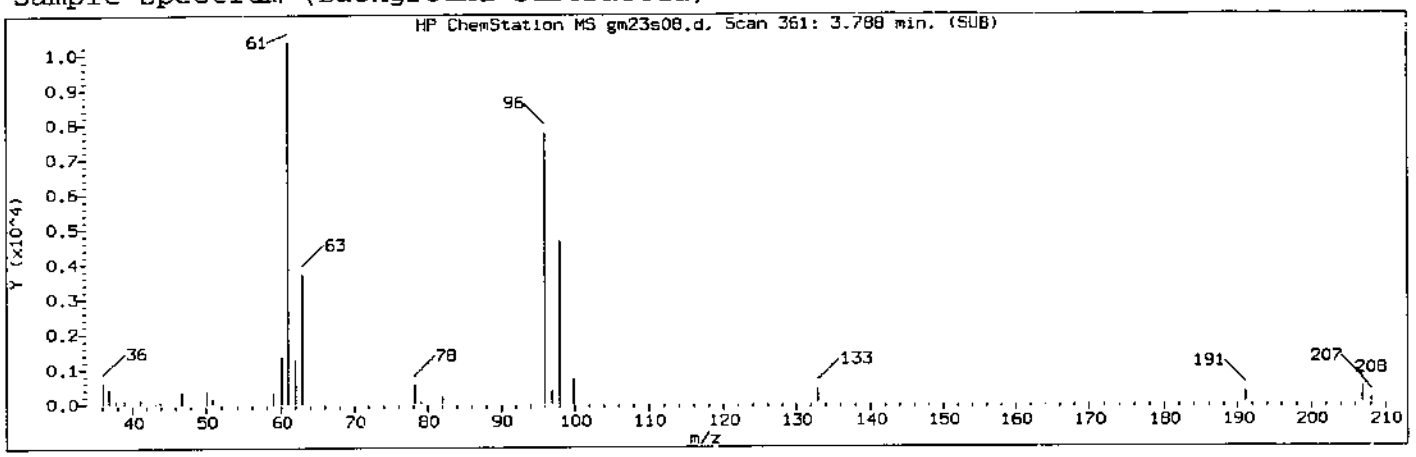
Lab Sample ID: 6233200DL

Compound Number : 10
Compound Name : 1,1-Dichloroethene
Scan Number : 361
Retention Time (minutes): 3.788
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 19484M
On-Column Amount (ng) : 0.2017

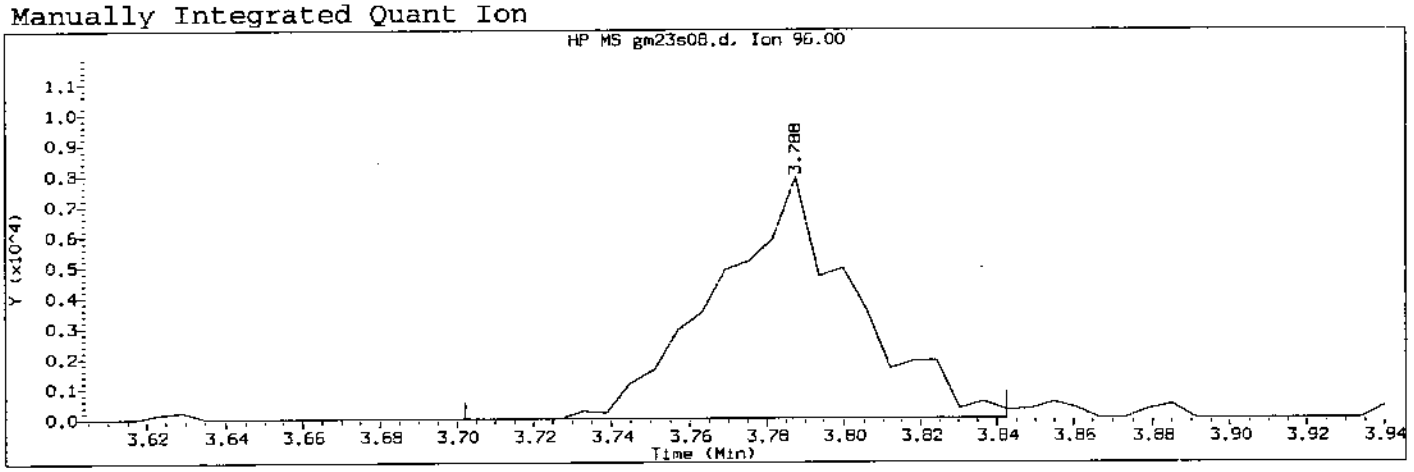
WAT13 8111

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL Lab Sample ID: 6233200DL

Compound Number : 10
Compound Name : 1,1-Dichloroethene
Scan Number : 361
Retention Time (minutes): 3.788
Quant Ion : 96.00
Area (flag) : 19484M
On-Column Amount (ng) : 0.2017
Integration start scan : 346 Integration stop scan: 369
Y at integration start : 0 Y at integration end: 0

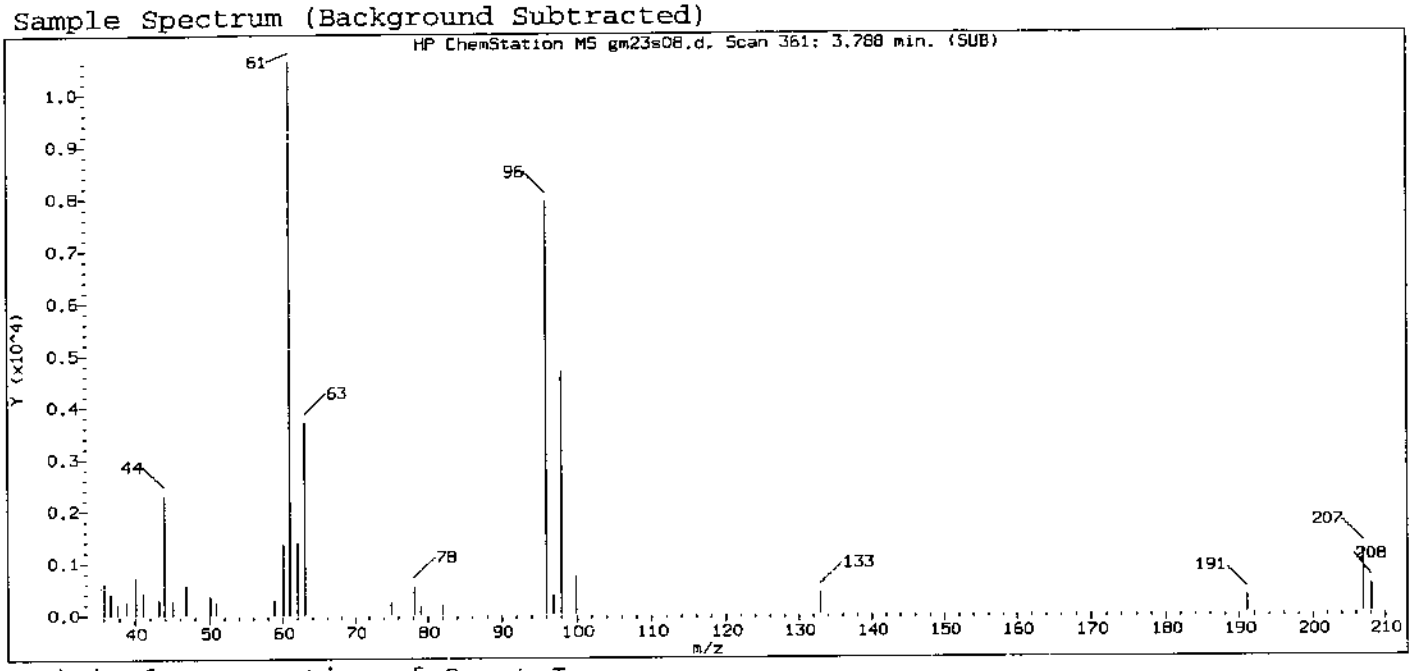
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

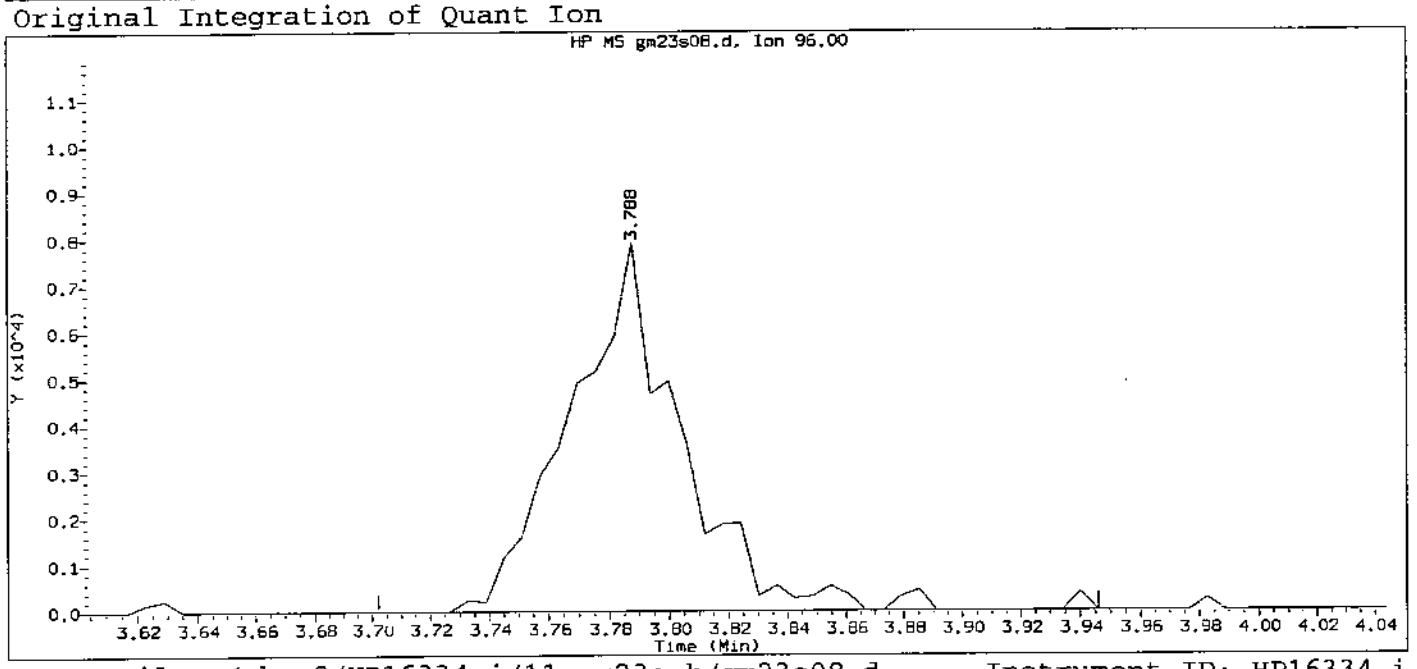
MAT13 8112

GC/MS audit/management approval: LCTDR 3/24/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 13:03 Automation

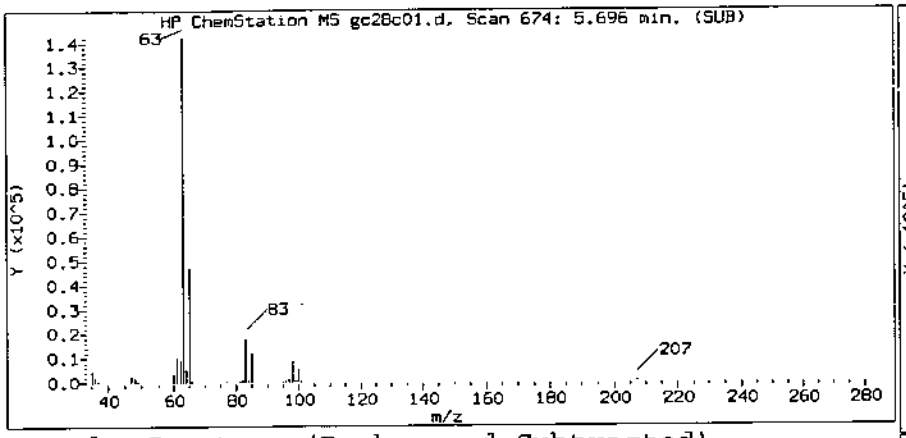
Sample Name: XXXXXDL Lab Sample ID: 6233200DL

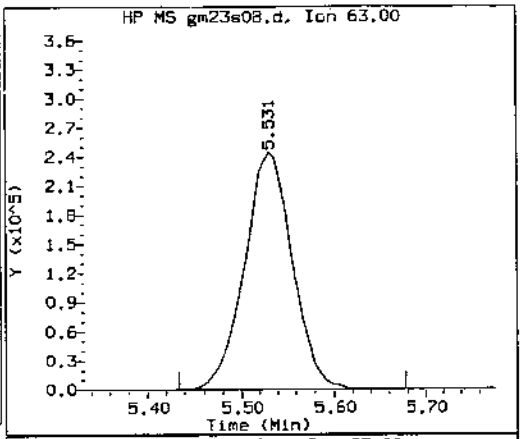
Compound Number : 10
Compound Name : 1,1-Dichloroethene
Scan Number : 361
Retention Time (minutes): 3.788
Quant Ion : 96.00
Area : 20341
On-column Amount (ng) : 0.2106
Integration start scan : 346 Integration stop scan: 386
Y at integration start : 0 Y at integration end: 0

WAT13 8113

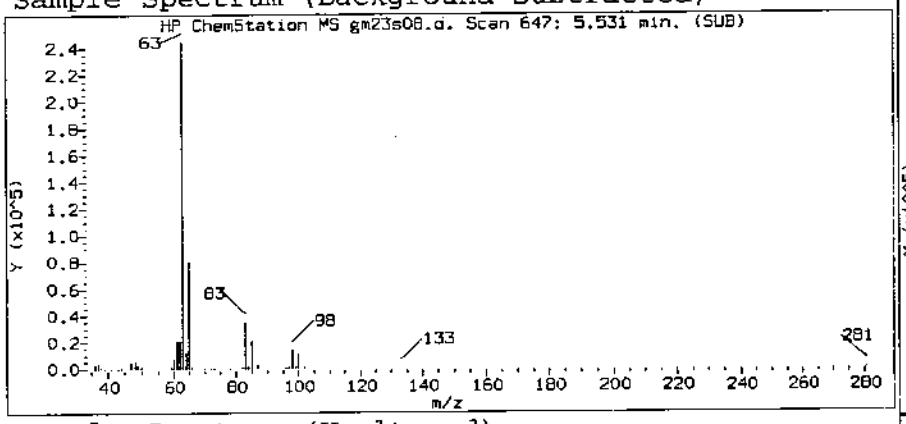
Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jm101693

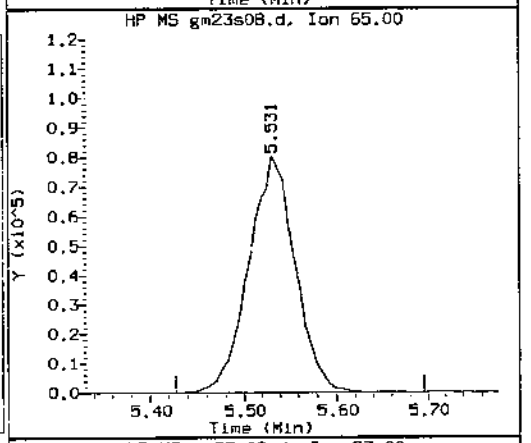
Reference Standard Spectrum for 1,1-Dichloroethane



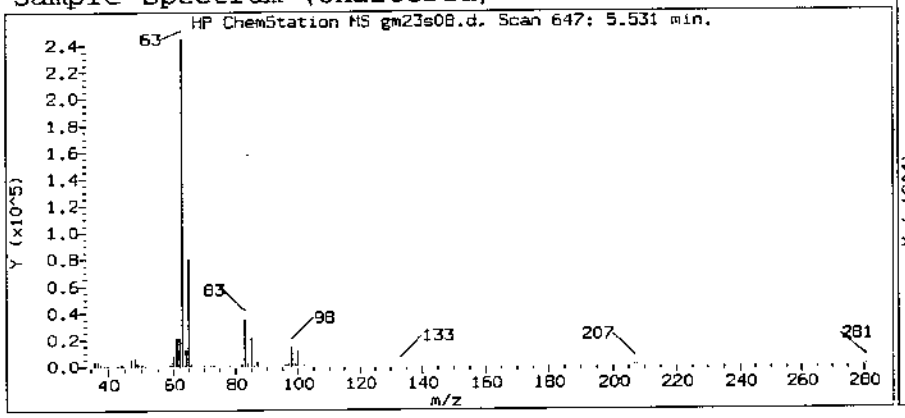


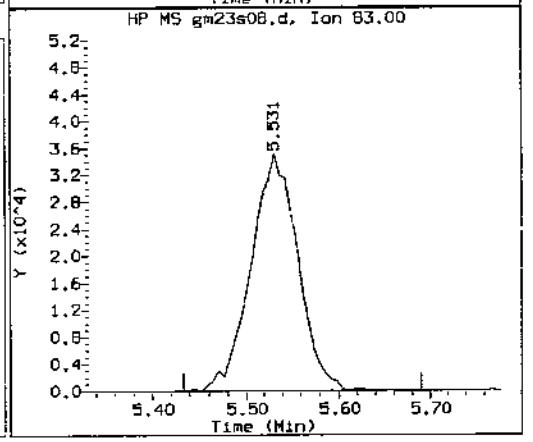
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXXDL

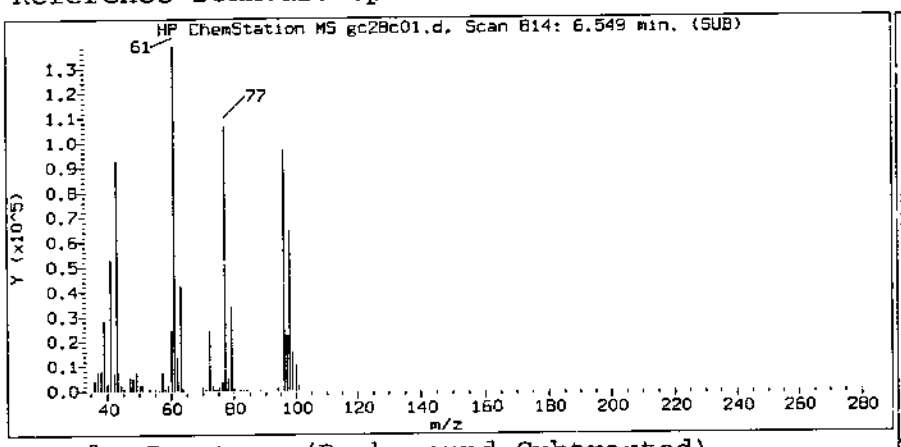
Lab Sample ID: 6233200DL

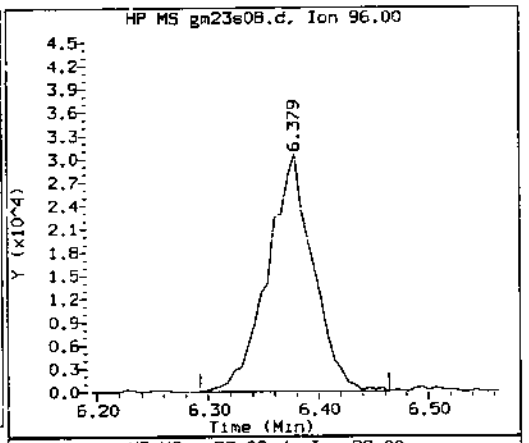
Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 647
Retention Time (minutes): 5.531
Relative Retention Time : 0.001
Quant Ion : 63.00
Area (flag) : 896438
On-Column Amount (ng) : 4.3285

WAT13 8114

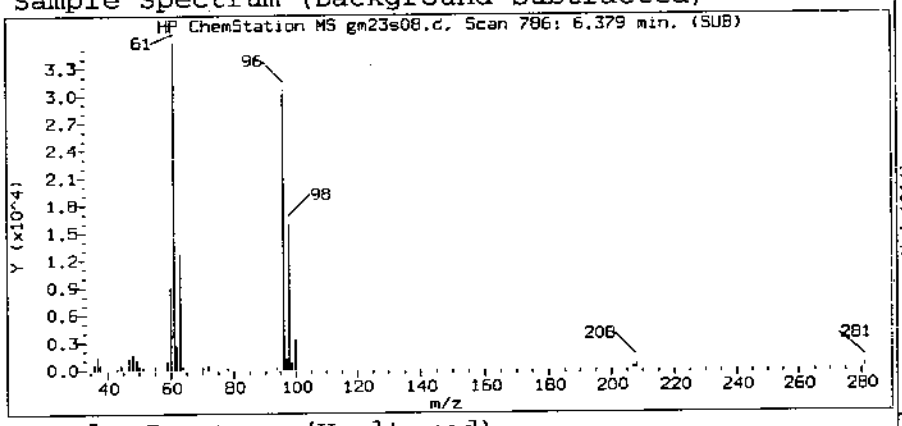
Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

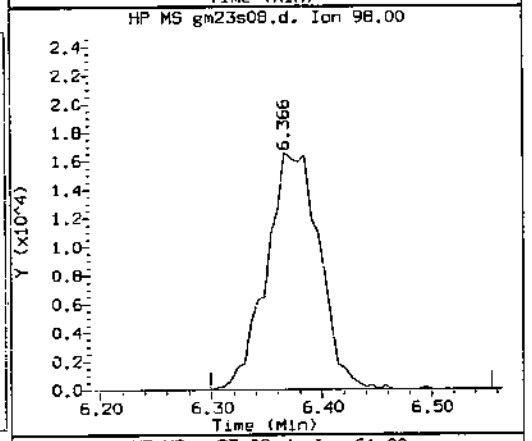
Reference Standard Spectrum for cis-1,2-Dichloroethene



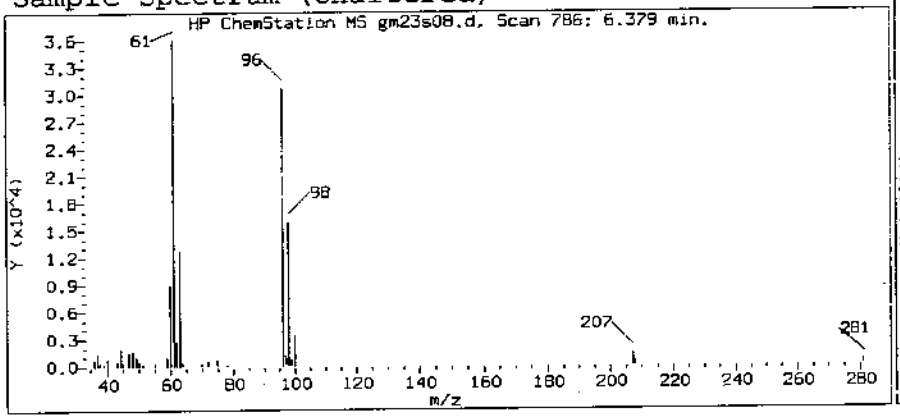


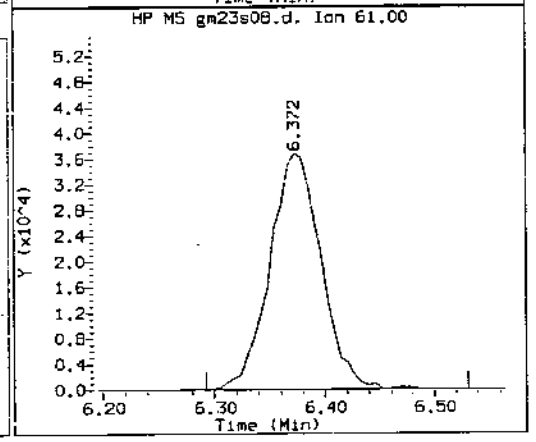
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXXDL

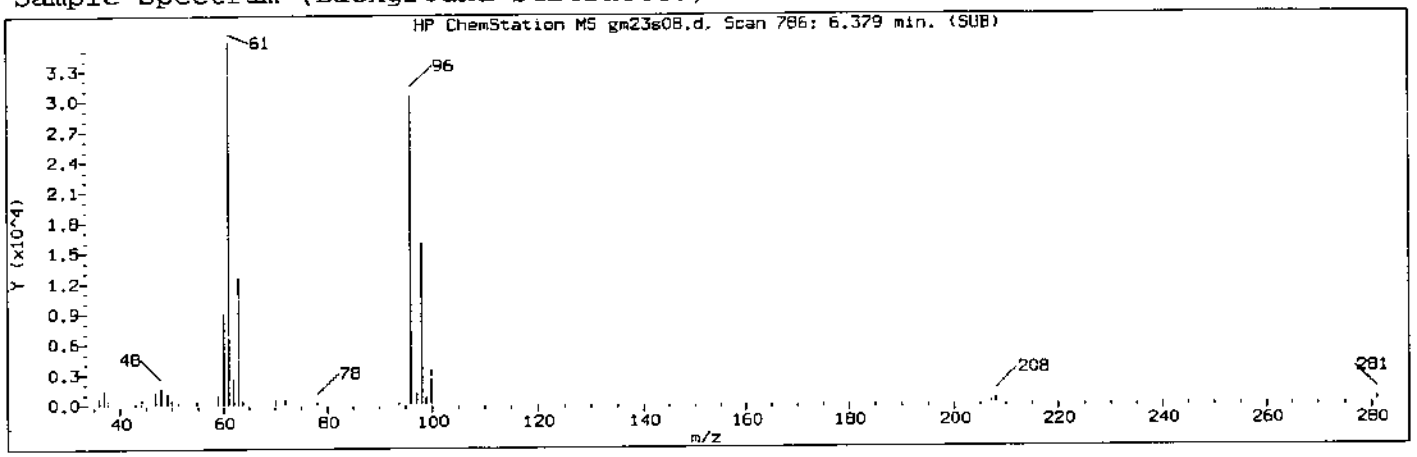
Lab Sample ID: 6233200DL

Compound Number : 26
Compound Name : cis-1,2-Dichloroethene
Scan Number : 786
Retention Time (minutes): 6.379
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 88048M
On-Column Amount (ng) : 0.7686

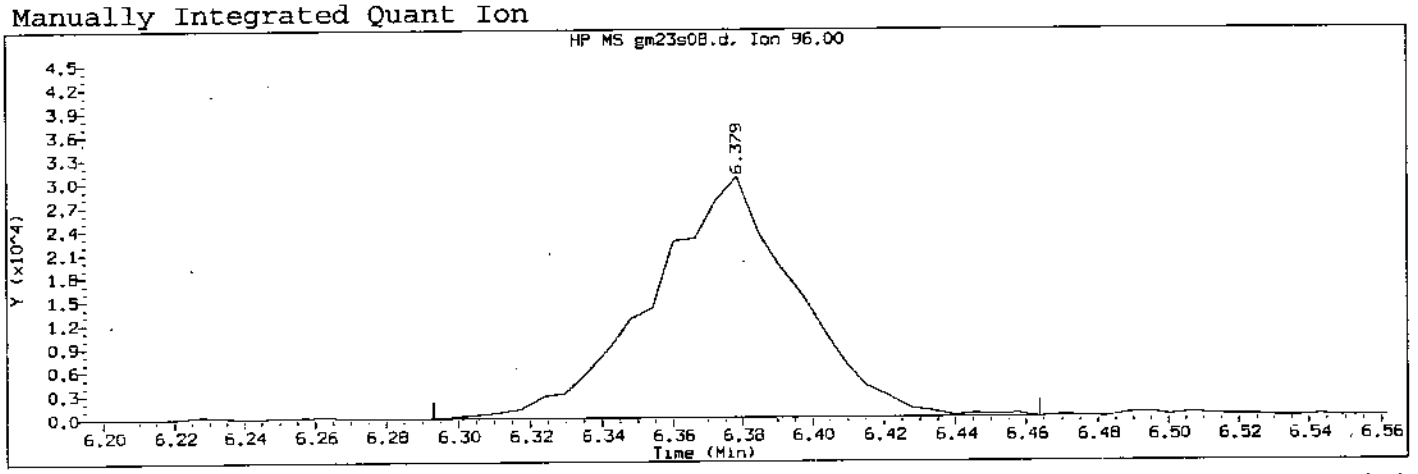
WAT13 8115

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL Lab Sample ID: 6233200DL

Compound Number : 26
Compound Name : cis-1,2-Dichloroethene
Scan Number : 786
Retention Time (minutes): 6.379
Quant Ion : 96.00
Area (flag) : 88048M
On-Column Amount (ng) : 0.7686
Integration start scan : 771 Integration stop scan: 799
Y at integration start : 0 Y at integration end: 0

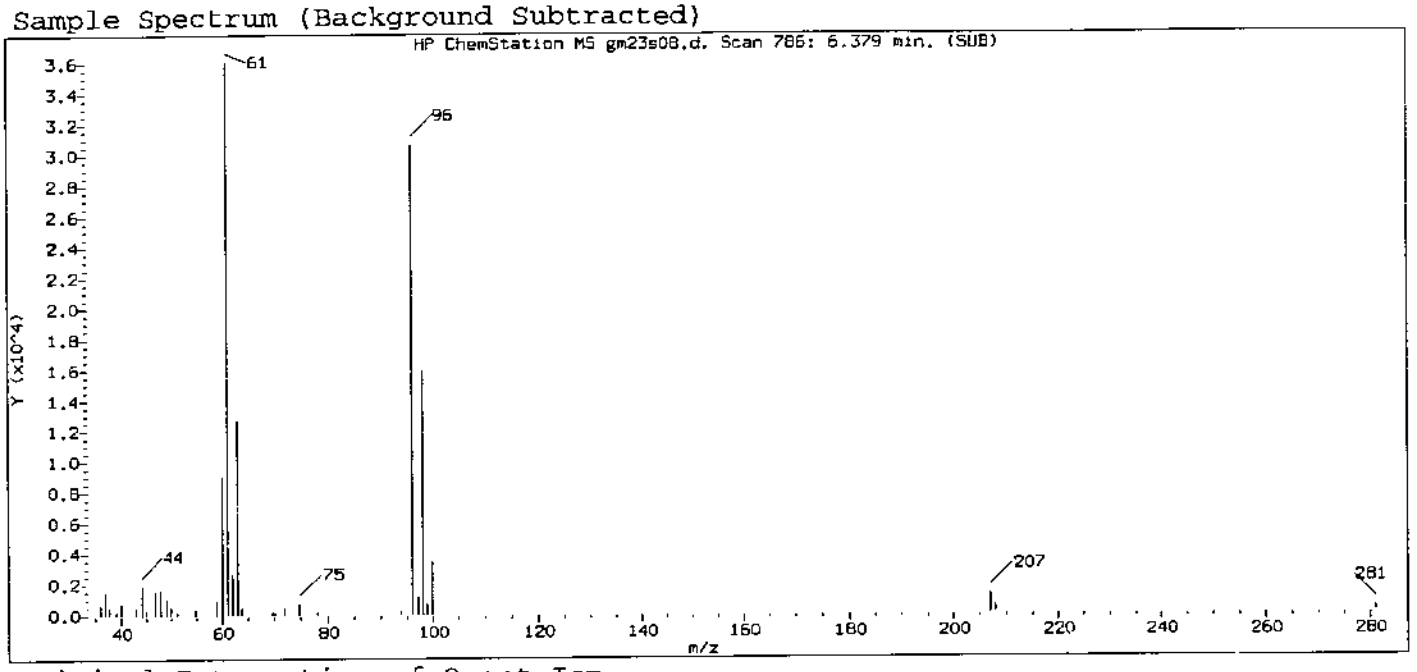
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

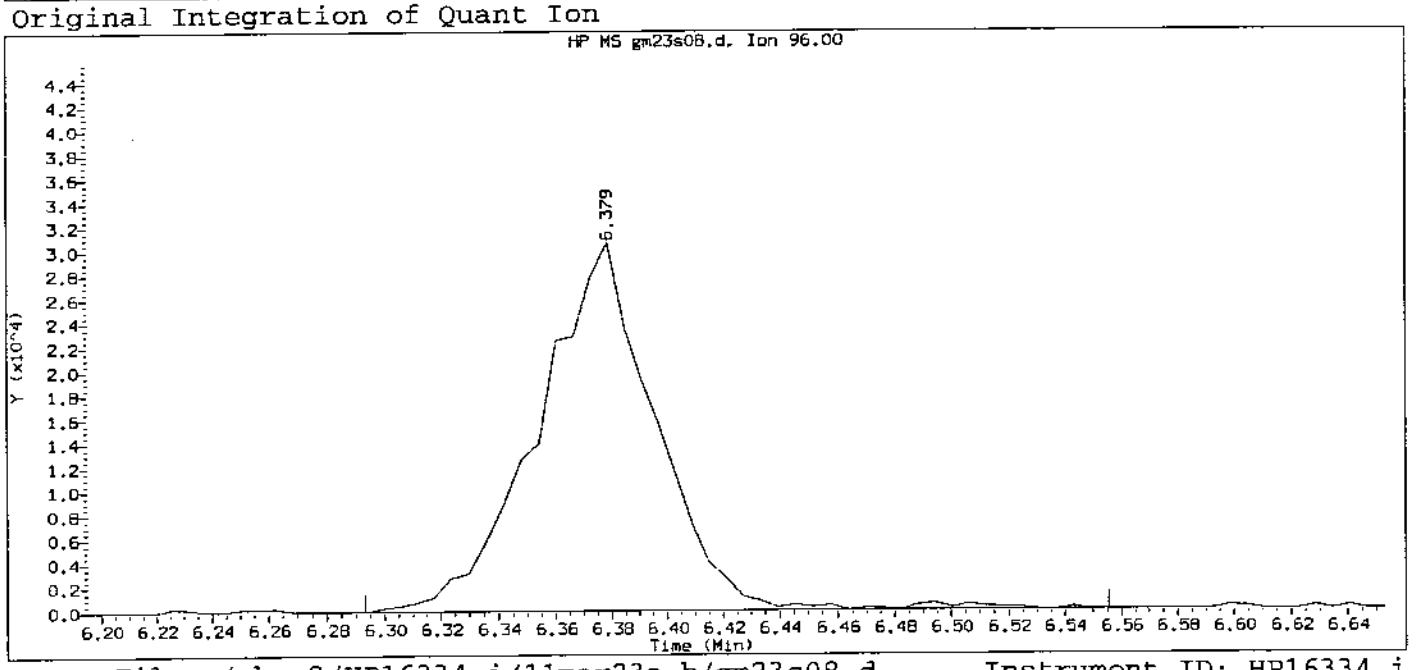
WAT13 8116

GC/MS audit/management approval: LCTJJY 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 13:03 Automation

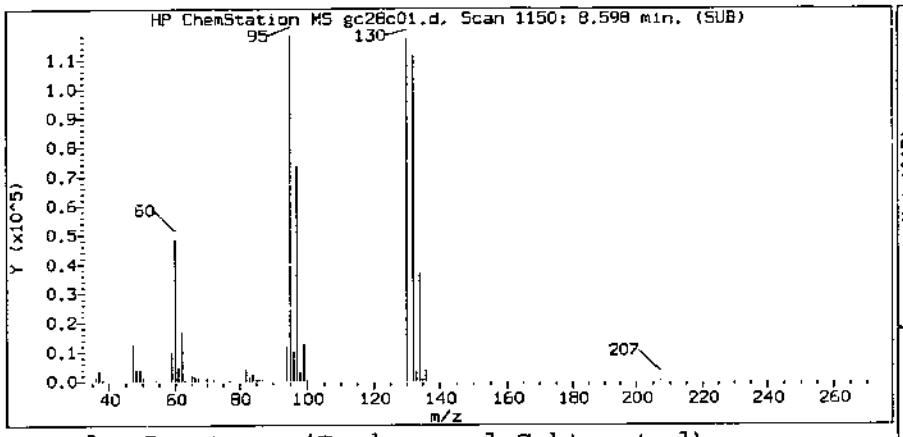
Sample Name: XXXXXDL Lab Sample ID: 6233200DL

Compound Number : 26
Compound Name : cis-1,2-Dichloroethene
Scan Number : 786
Retention Time (minutes): 6.379
Quant Ion : 96.00
Area : 89163
On-column Amount (ng) : 0.7783
Integration start scan : 771 Integration stop scan: 814
Y at integration start : 0 Y at integration end: 0

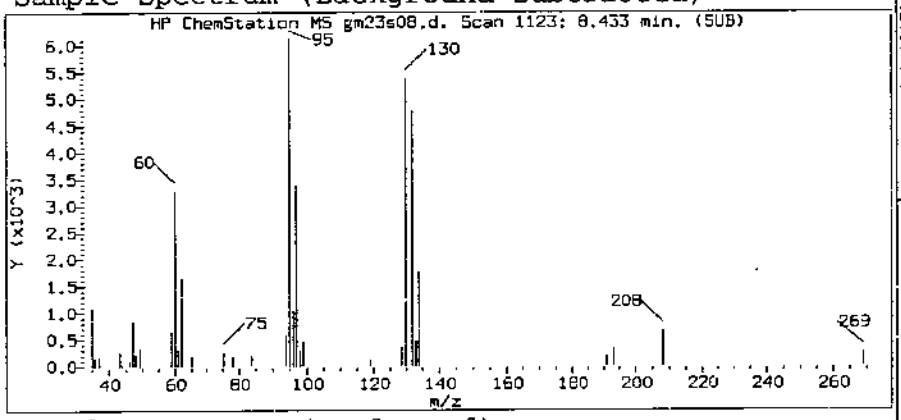
WAT13 8117

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

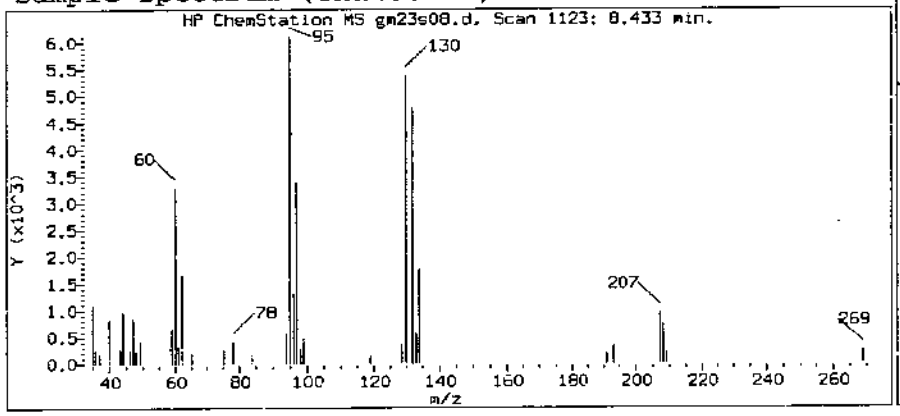
Reference Standard Spectrum for Trichloroethene

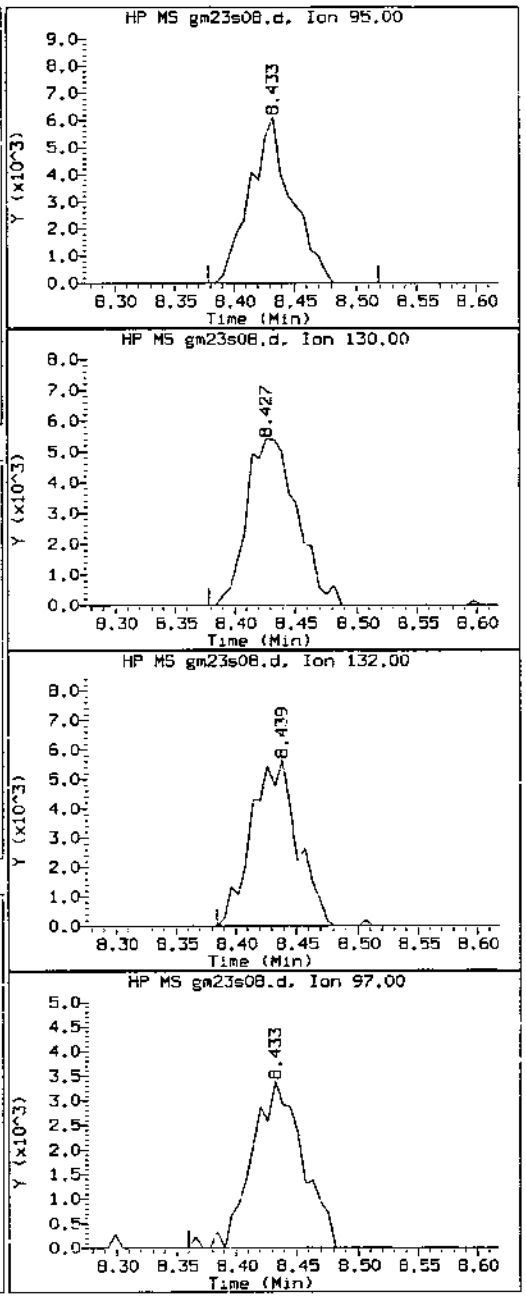


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

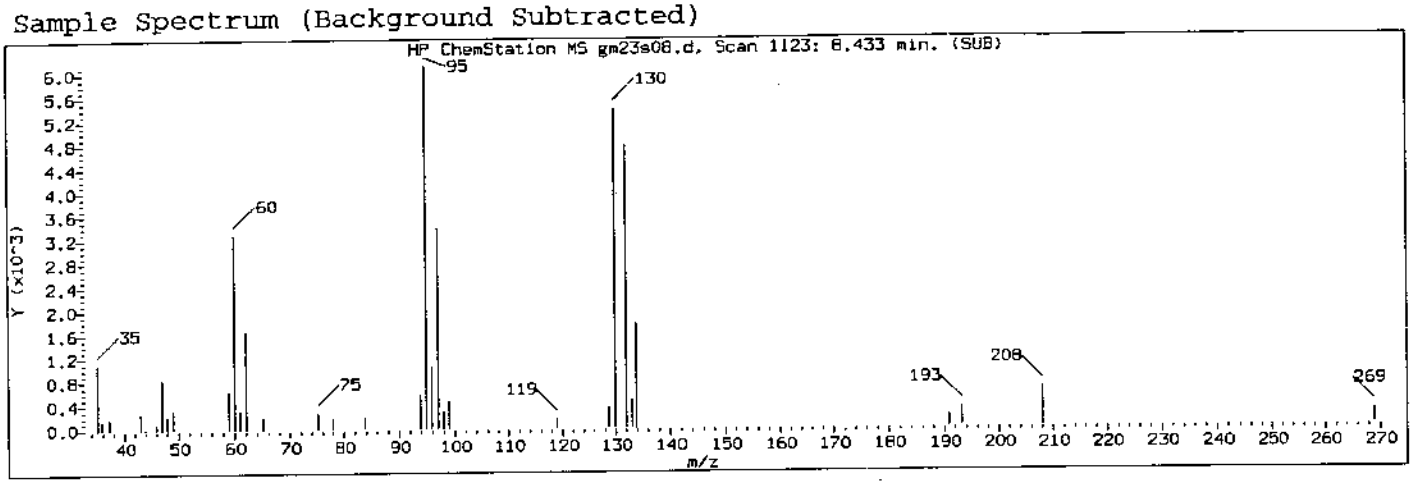
Lab Sample ID: 6233200DL

Compound Number : 43
Compound Name : Trichloroethene
Scan Number : 1123
Retention Time (minutes): 8.433
Relative Retention Time : -0.000
Quant Ion : 95.00
Area (flag) : 14694M
On-Column Amount (ng) : 0.1165

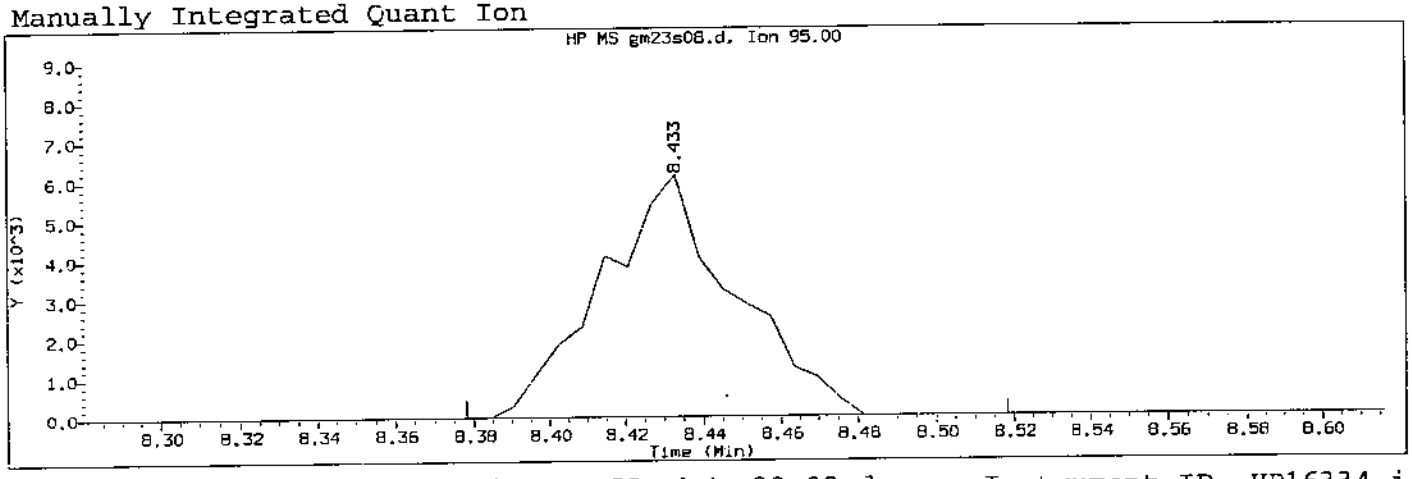
WAT13 6110

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL Lab Sample ID: 6233200DL

Compound Number	: 43		
Compound Name	: Trichloroethene		
Scan Number	: 1123		
Retention Time (minutes)	: 8.433		
Quant Ion	: 95.00		
Area (flag)	: 14694M		
On-Column Amount (ng)	: 0.1165		
Integration start scan	: 1113	Integration stop scan:	1136
Y at integration start	: 0	Y at integration end:	0

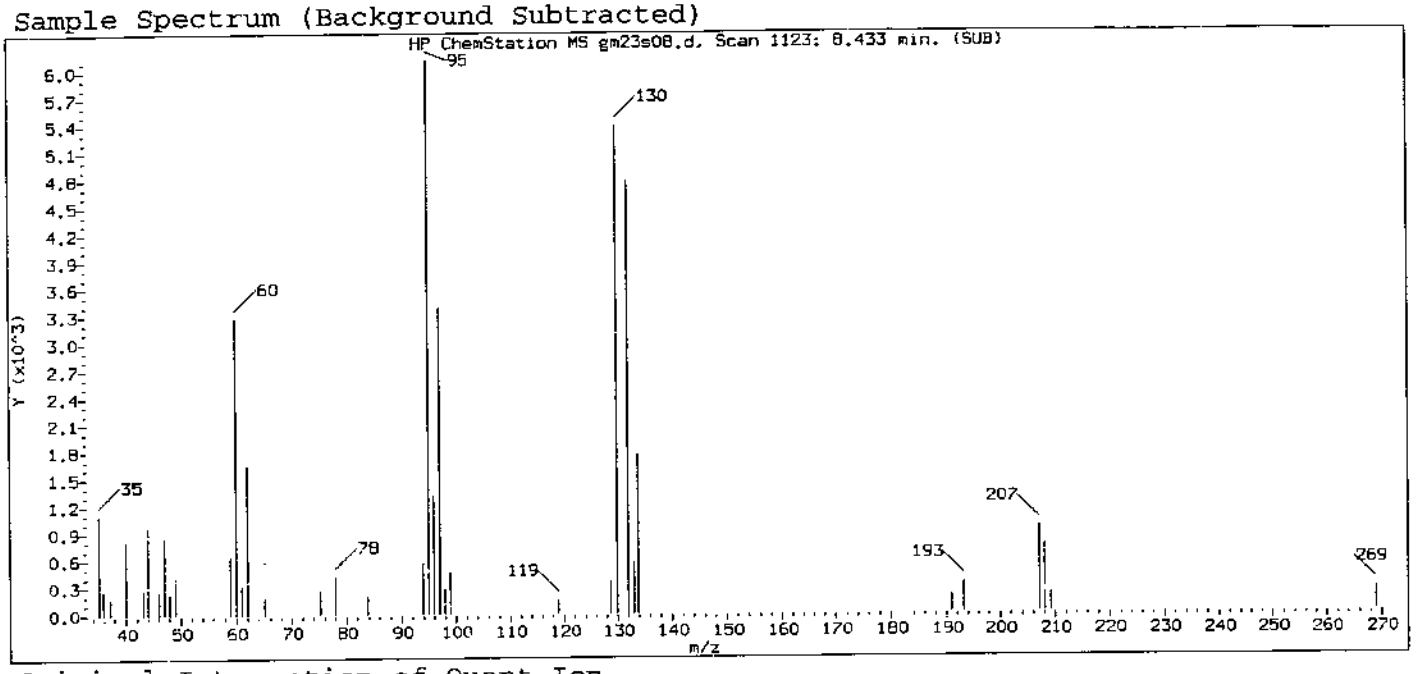
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

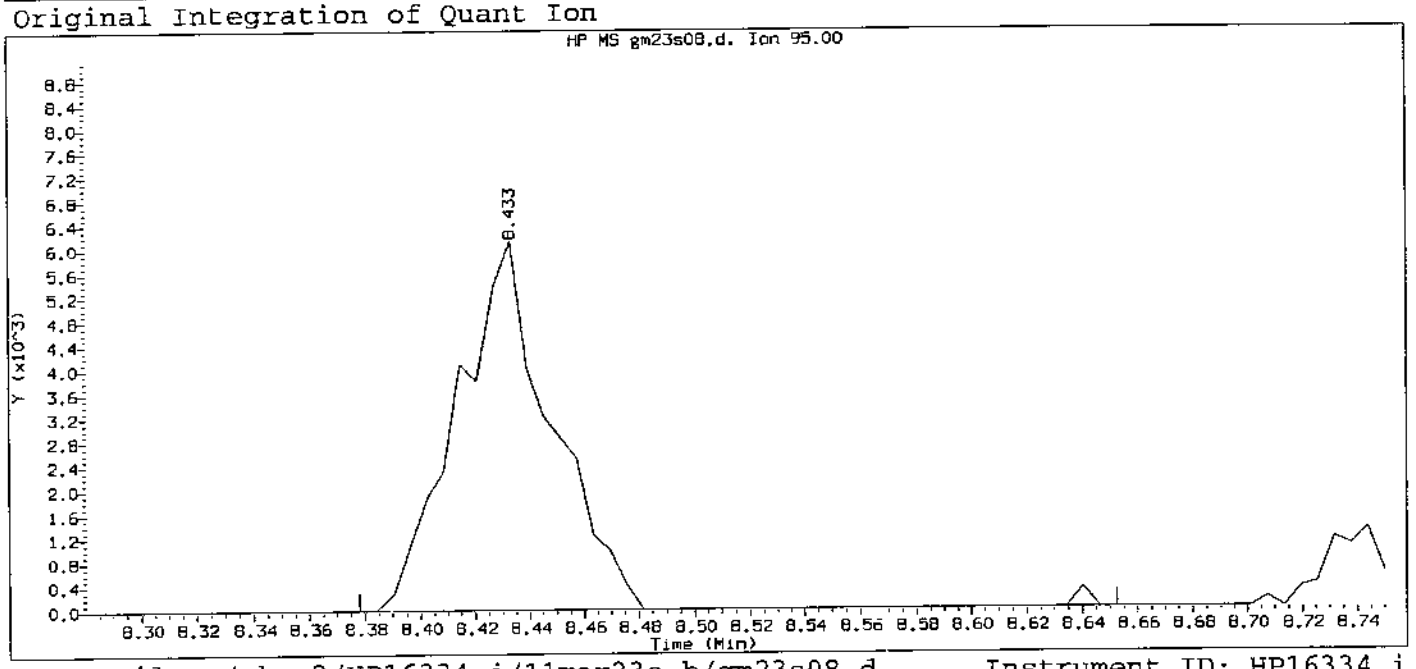
WAT13 8119

GC/MS audit/management approval: LCTD 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:45 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 13:03 Automation

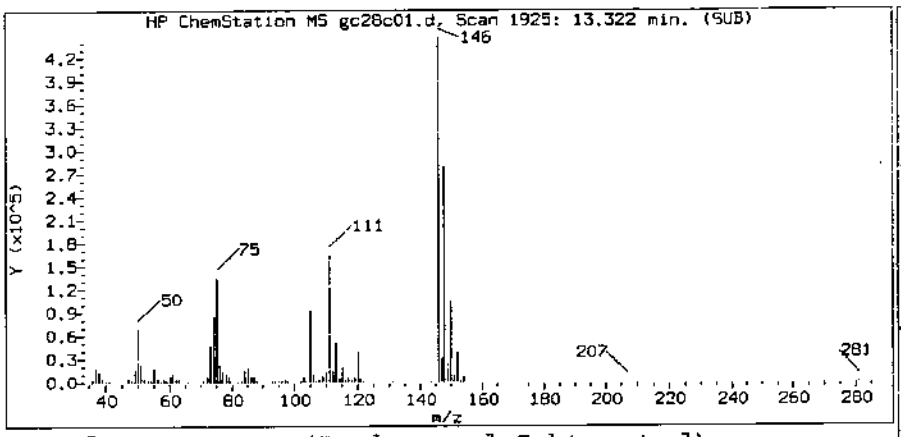
Sample Name: XXXXXDL Lab Sample ID: 6233200DL

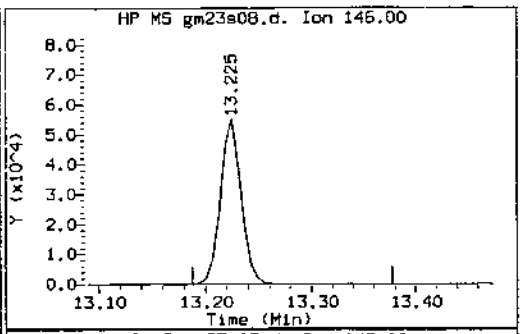
Compound Number : 43
Compound Name : Trichloroethene
Scan Number : 1123
Retention Time (minutes): 8.433
Quant Ion : 95.00
Area : 14817
On-column Amount (ng) : 0.1175
Integration start scan : 1113 Integration stop scan: 1158
Y at integration start : 0 Y at integration end: 0

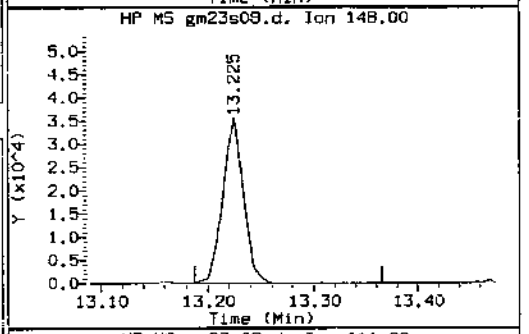
MAT13 8128

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

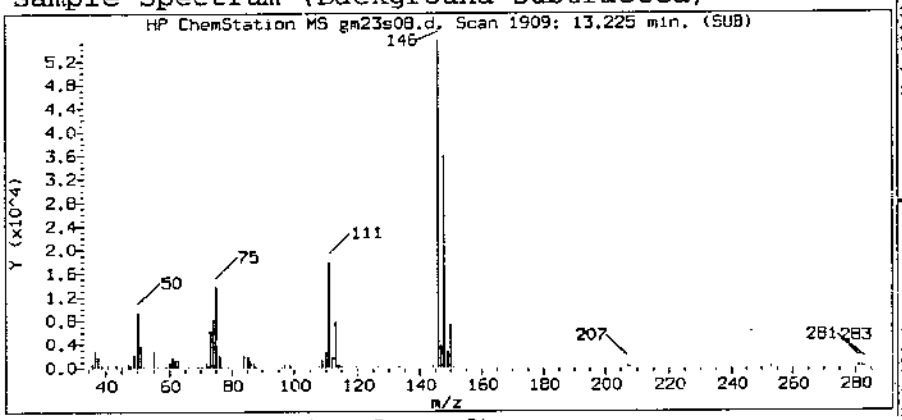
Reference Standard Spectrum for 1,4-Dichlorobenzene

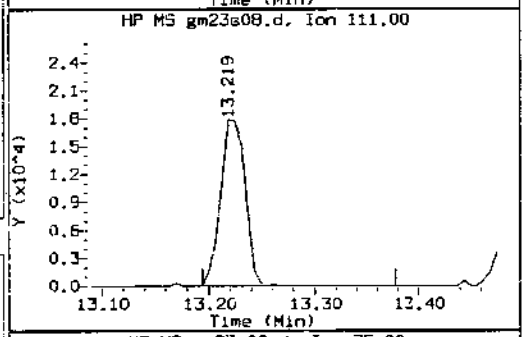




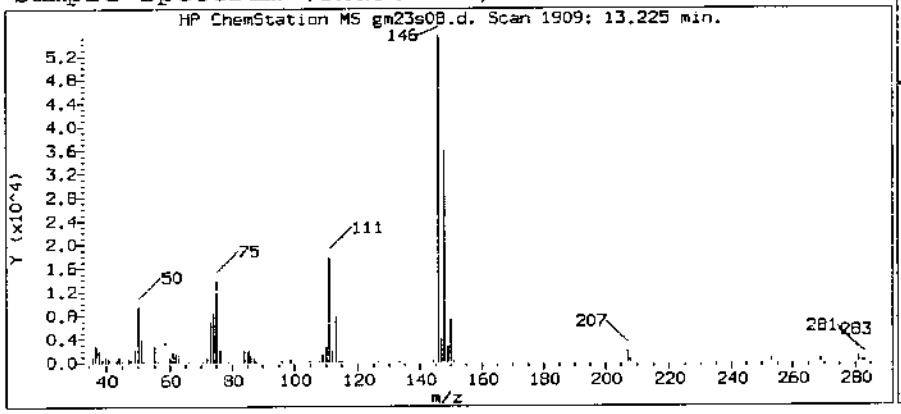


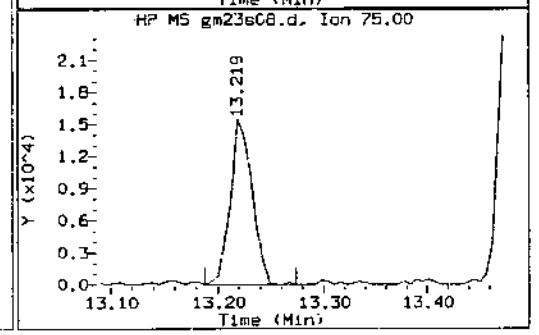
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s08.d
Injection date and time: 23-MAR-2011 12:45

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXXDL

Lab Sample ID: 6233200DL

Compound Number	: 88
Compound Name	: 1,4-Dichlorobenzene
Scan Number	: 1909
Retention Time (minutes)	: 13.225
Relative Retention Time	: -0.001
Quant Ion	: 146.00
Area (flag)	: 74181
On-Column Amount (ng)	: 0.3072

WAT13 0121

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233201

Data file: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Data file Sample Info. Line: XXXXX;6233201;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Injection date and time: **23-MAR-2011 12:00**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.952(0.006)	1044	96	1866104 (-6)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.329(0.000)	174	580458	5.108	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.481(-0.001)	152	626351	5.163	103%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)	2.081(0.000)	85	61863	0.307	0.31		J	0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)	2.837(0.001)	64	65135	0.774	0.77			0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)	3.788(0.000)	96	21743	0.218	0.22		J	0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)	5.531(0.000)	63	1423781	6.640	6.64			0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
26) cis-1,2-Dichloroethene	(1)	6.379(0.000)	96	117202	0.989	0.99			0.1	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)	8.433(-0.000)	95	22946	0.176	0.18		J	0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)			Not Detected					0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.1	0.5
67) m+p-Xylene	(1)			Not Detected					0.2	0.5
70) Xylene (Total)	(1)			Not Detected					0.2	0.5

WAT13 8122

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233201

Data file: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Data file Sample Info. Line: XXXXX;6233201;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Injection date and time: **23-MAR-2011 12:00**
Instrument ID: **HP16334.i** Batch: **GI10821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **39A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
68) o-Xylene	(1)			Not Detected					0.1	0.5
71) Bromoform	(1)			Not Detected					0.2	0.5
72) Isopropylbenzene	(1)			Not Detected					0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
75) Bromobenzene	(1)			Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)			Not Detected					0.1	0.5
69) Styrene	(1)			Not Detected					0.1	0.5
79) 2-Chlorotoluene	(1)			Not Detected					0.1	0.5
78) n-Propylbenzene	(1)			Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)			Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)			Not Detected					0.2	0.5
84) 1,2,4-Trimethylbenzene	(1)			Not Detected					0.1	0.5
89) n-Butylbenzene	(1)			Not Detected					0.2	0.5
82) tert-Butylbenzene	(1)			Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)			Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)			Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)			Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)	13.225(-0.001)	146	50270M	0.201	0.20		J	0.1	0.5
91) 1,2-Dichlorobenzene	(1)			Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)			Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)			Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)			Not Detected					0.2	0.5
97) Naphthalene	(1)			Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)			Not Detected					0.2	0.5

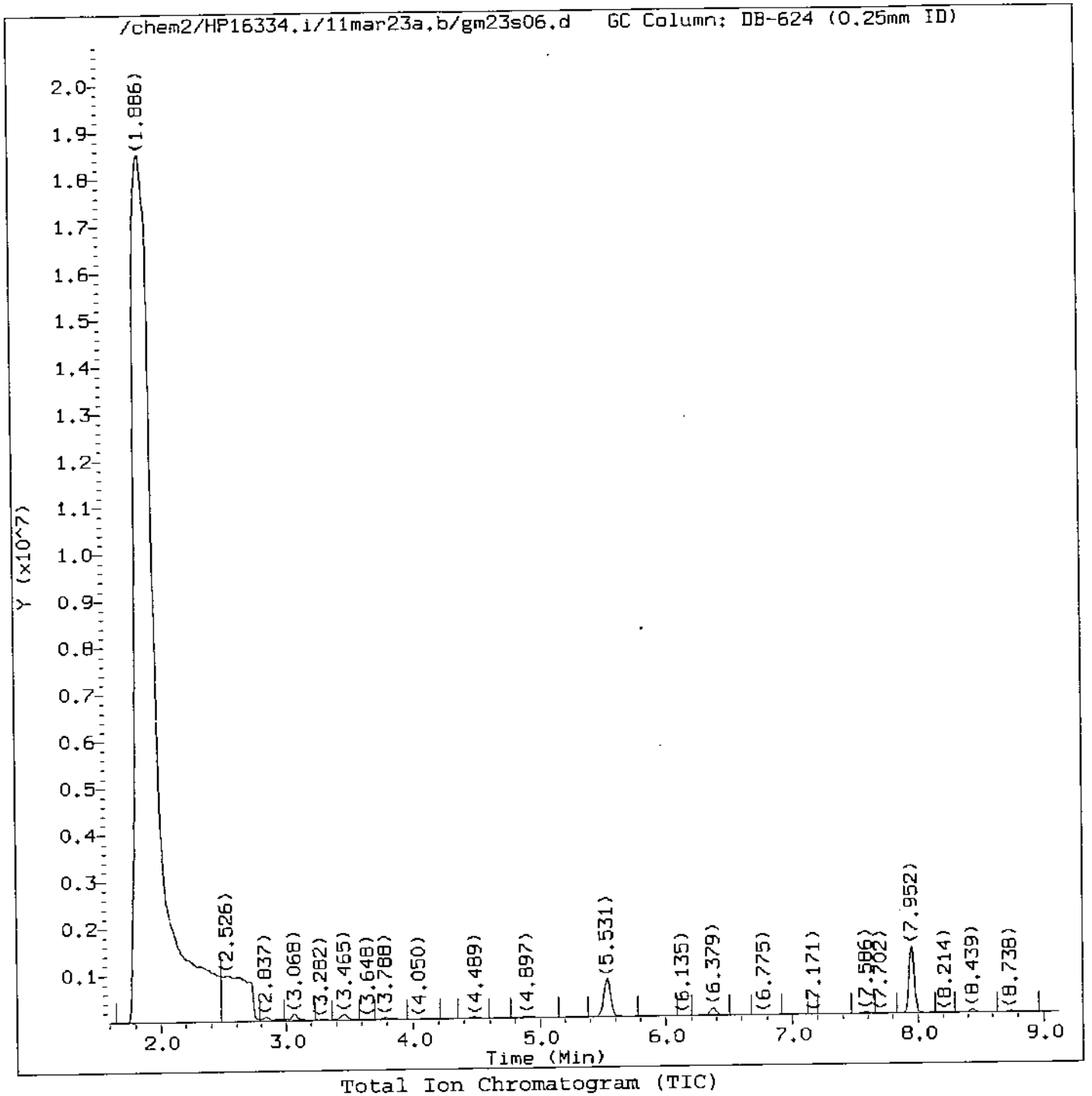
M = Compound was manually integrated.

Total number of targets = 60

WAT13 5123

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

Auditor: LCTDX Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

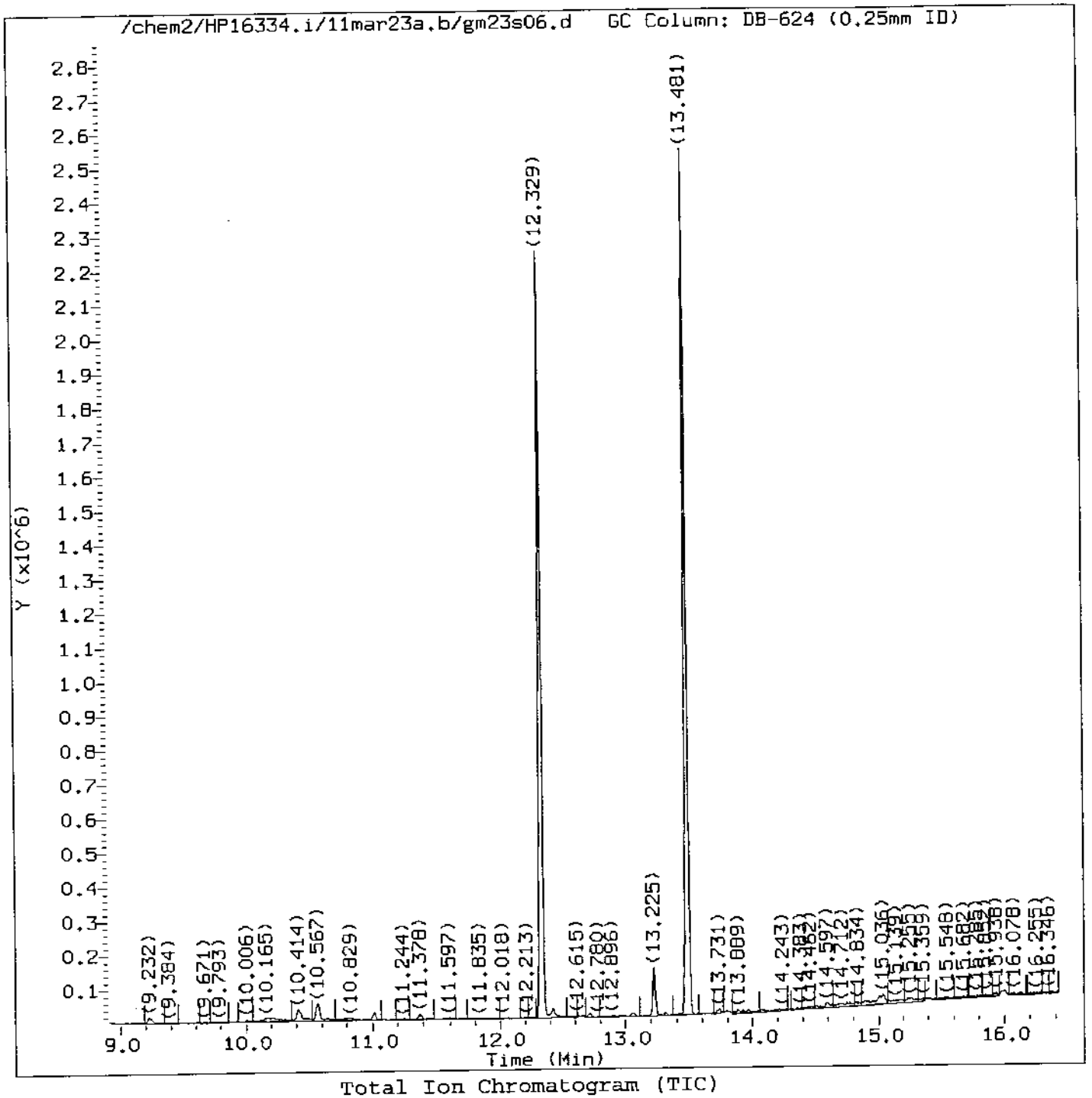
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

WAT13 8124

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

MAT13 0125

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Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.081	85	61863	0.307
5) Chloroethane	(1)	2.837	64	65135	0.774
10) 1,1-Dichloroethene	(1)	3.788	96	21743	0.218
22) 1,1-Dichloroethane	(1)	5.531	63	1422781	6.640
26) cis-1,2-Dichloroethene	(1)	6.379	96	117202	0.989
42)*Fluorobenzene	(1)	7.952	96	1866104	5.000
43) Trichloroethene	(1)	8.433	95	22946	0.176
73)$4-Bromofluorobenzene	(1)	12.329	174	580458	5.108
88) 1,4-Dichlorobenzene	(1)	13.225	146	50270M	0.201
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	626351	5.163

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 8126

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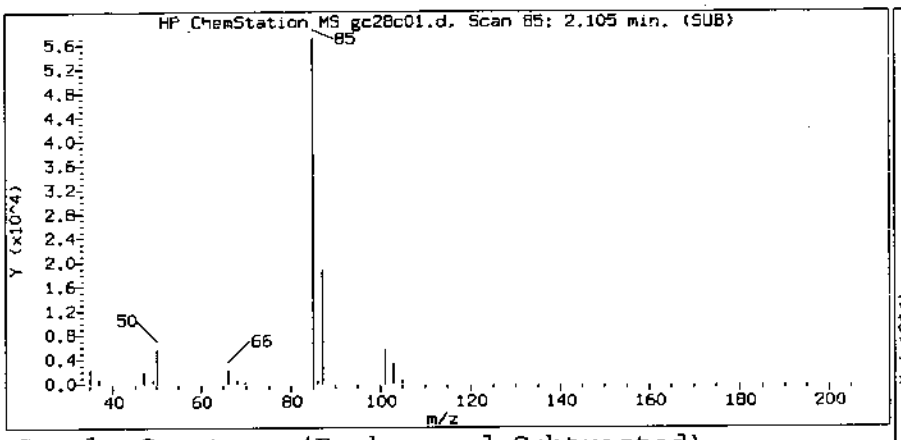
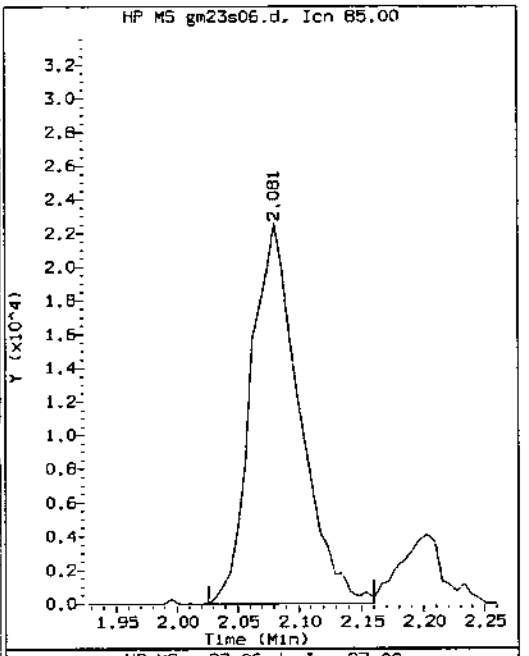
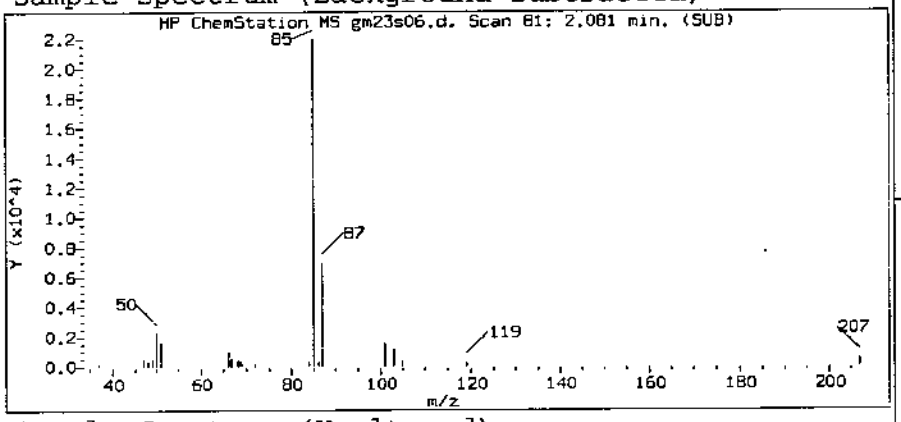
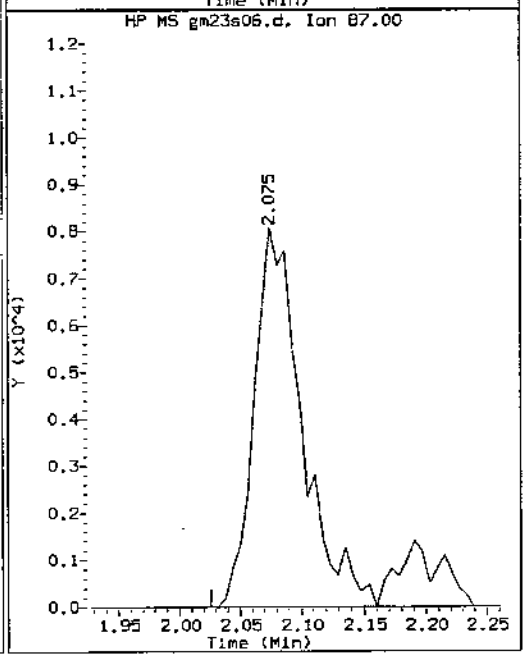
Reference Standard Spectrum for Dichlorodifluoromethane



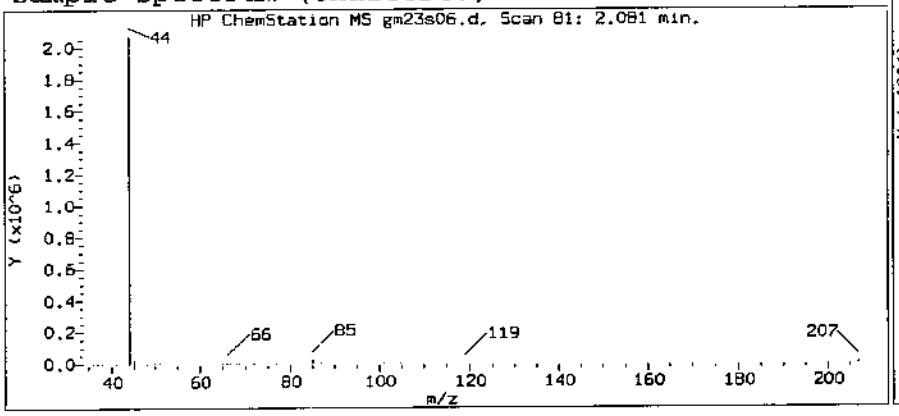


Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)



Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compound Number	: 1
Compound Name	: Dichlorodifluoromethane
Scan Number	: 81
Retention Time (minutes)	: 2.081
Relative Retention Time	: 0.000
Quant Ion	: 85.00
Area (flag)	: 61863
On-Column Amount (ng)	: 0.3074

WAT13 6127

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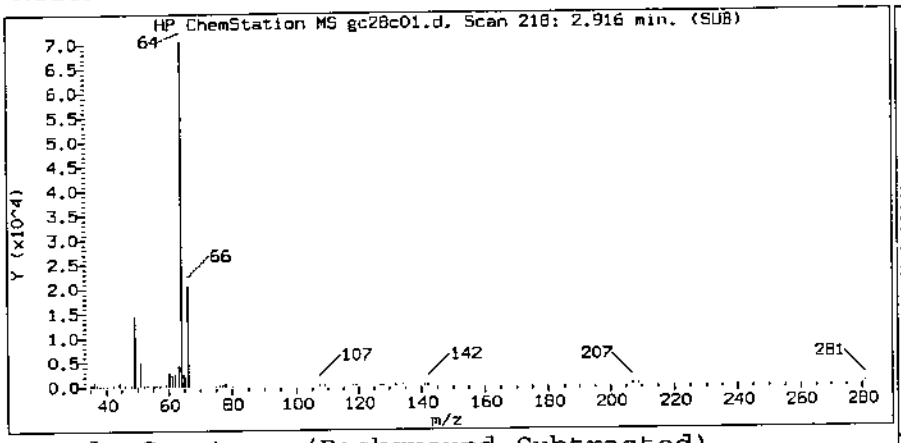
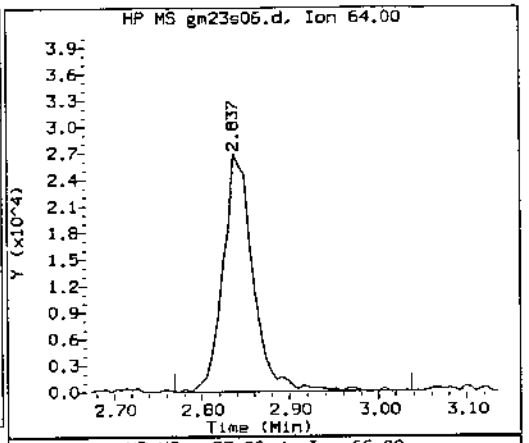
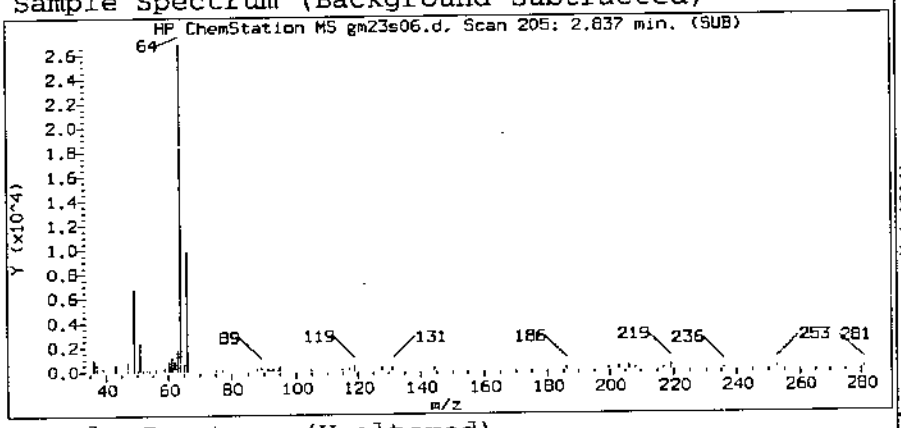
Target 3.5 esignature user ID: jml01693

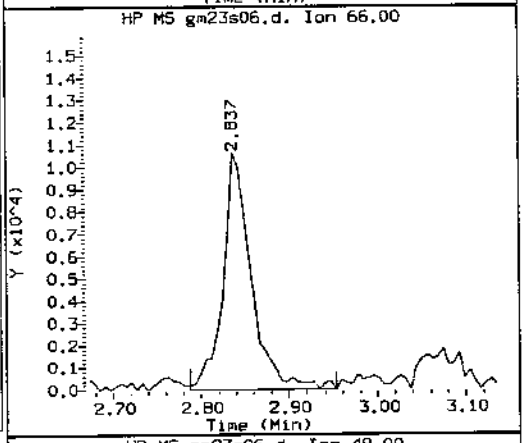
Reference Standard Spectrum for Chloroethane



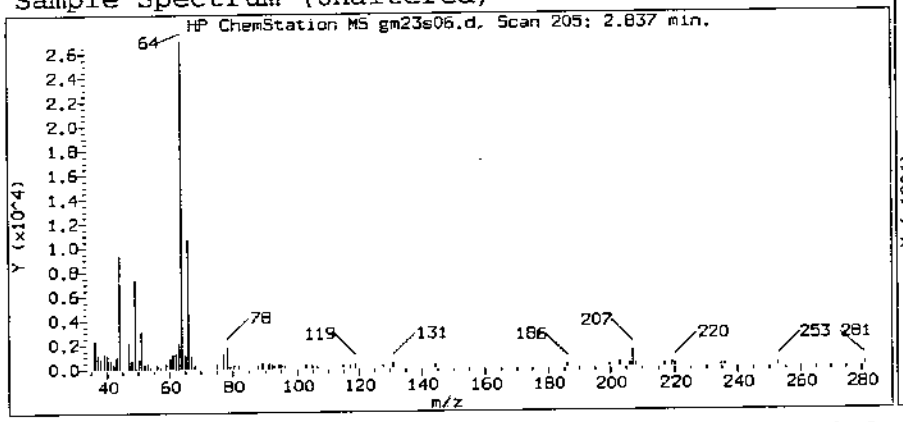


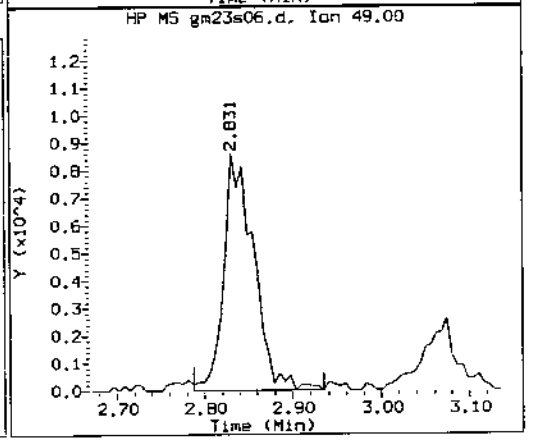
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compound Number : 5
Compound Name : Chloroethane
Scan Number : 205
Retention Time (minutes): 2.837
Relative Retention Time : 0.001
Quant Ion : 64.00
Area (flag) : 65135
On-Column Amount (ng) : 0.7744

WAT13 P120

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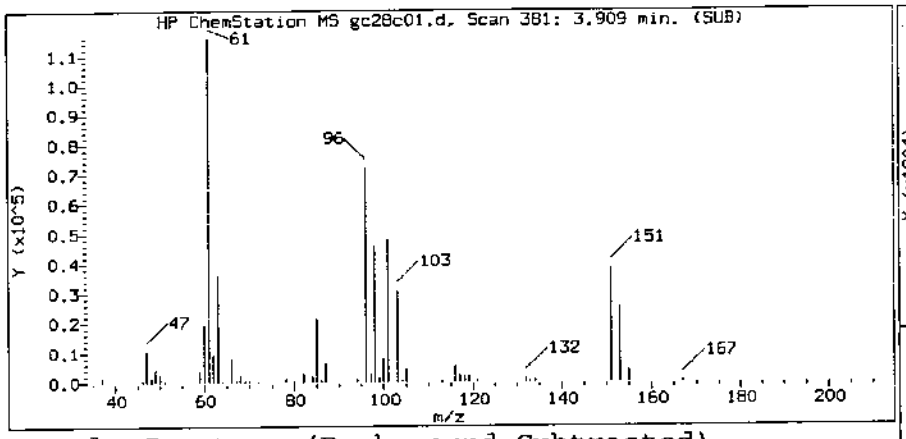
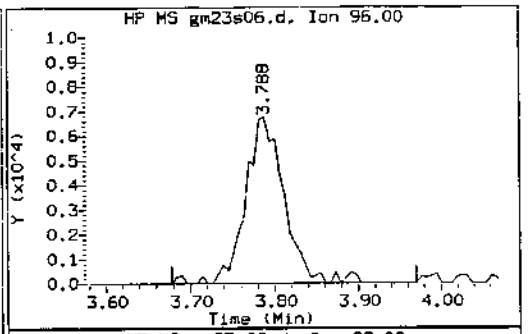
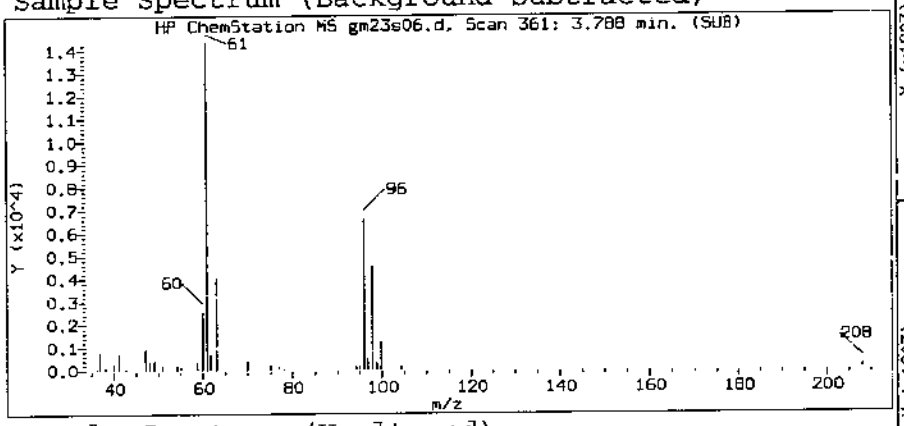
Target 3.5 esignature user ID: jml01693

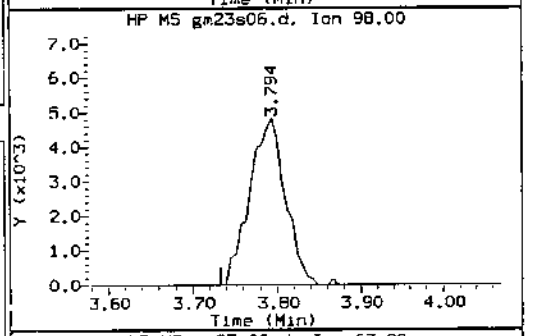
Reference Standard Spectrum for 1,1-Dichloroethene

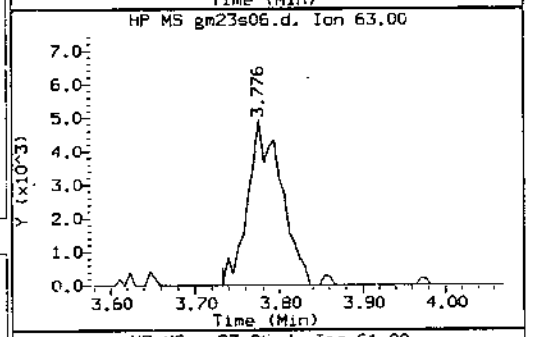




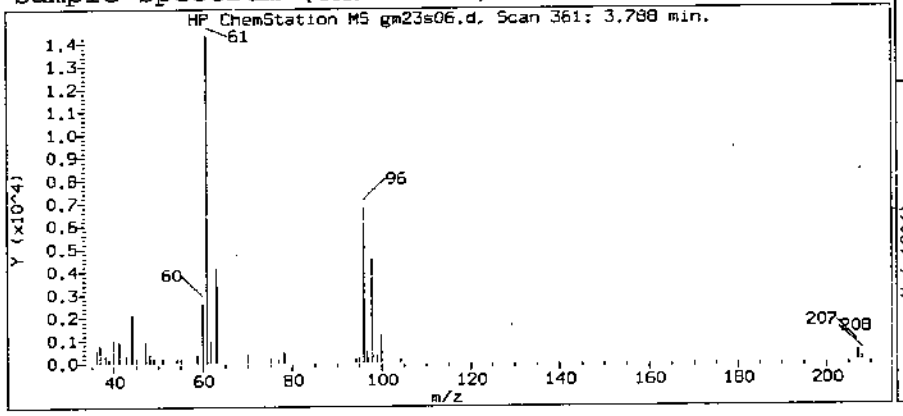
Sample Spectrum (Background Subtracted)

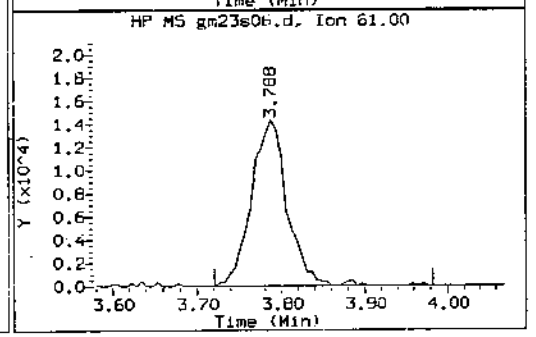






Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compound Number : 10
Compound Name : 1,1-Dichloroethene
Scan Number : 361
Retention Time (minutes): 3.788
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 21743
On-Column Amount (ng) : 0.2176

WAT13 0129

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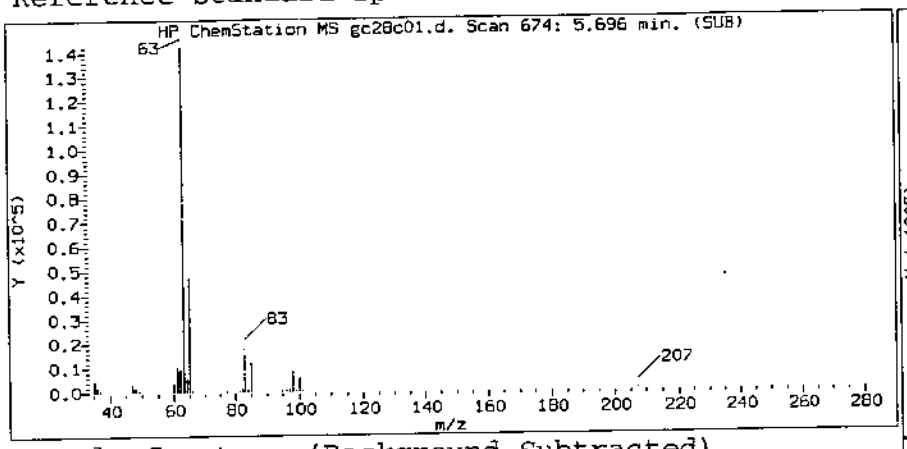
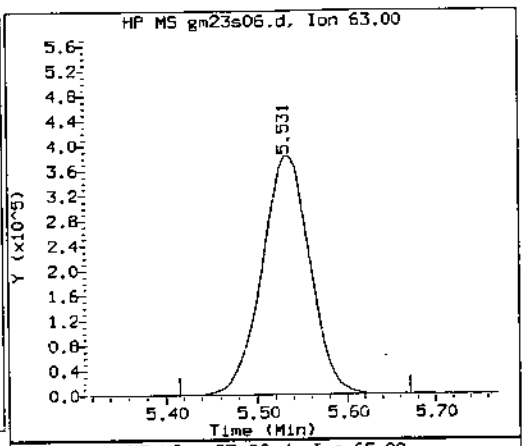
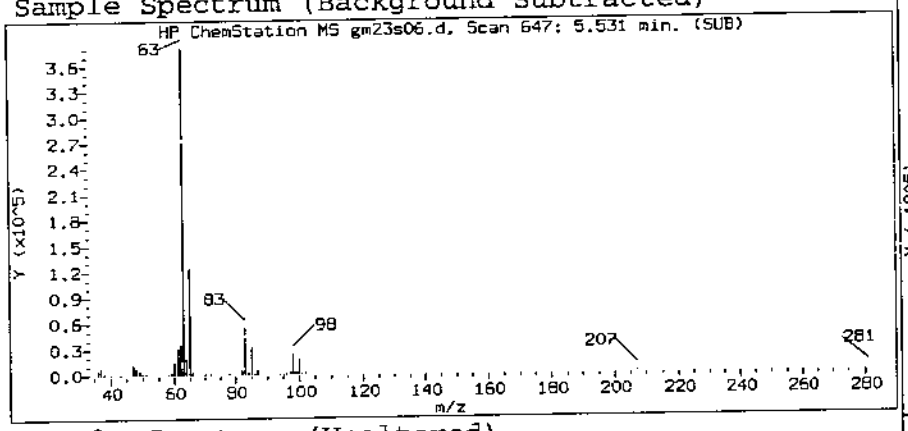
Target 3.5 esignature user ID: jml01693

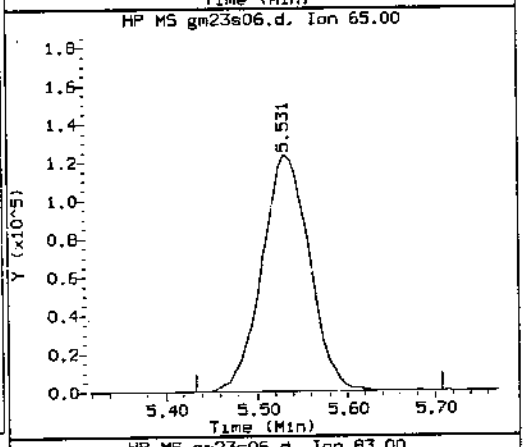
Reference Standard Spectrum for 1,1-Dichloroethane



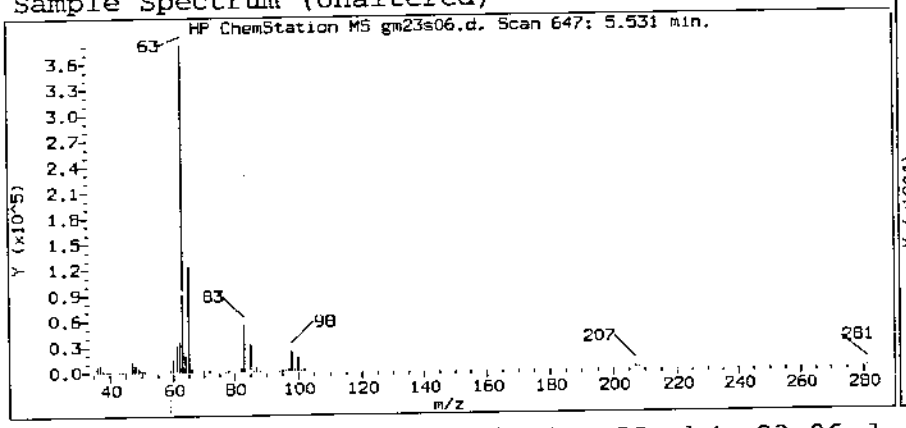


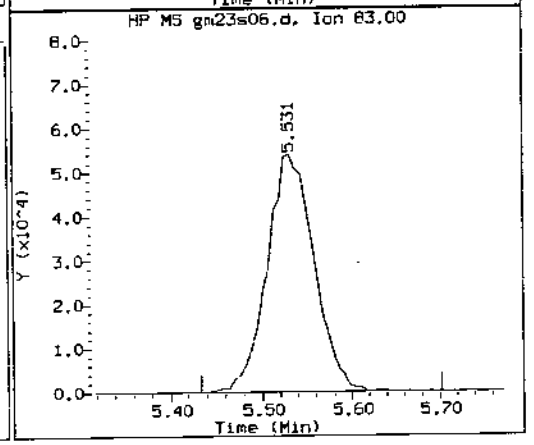
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compound Number : 22
Compound Name : 1,1-Dichloroethane
Scan Number : 647
Retention Time (minutes): 5.531
Relative Retention Time : 0.000
Quant Ion : 63.00
Area (flag) : 1422781
On-Column Amount (ng) : 6.6400

WAT13 8138

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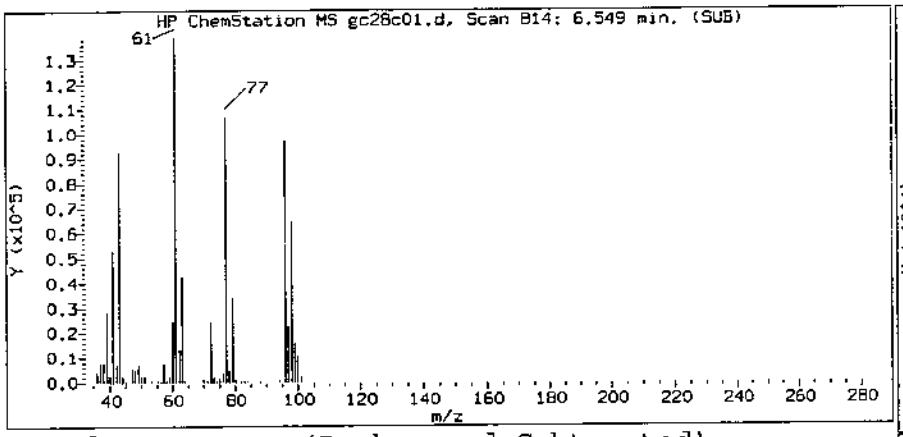
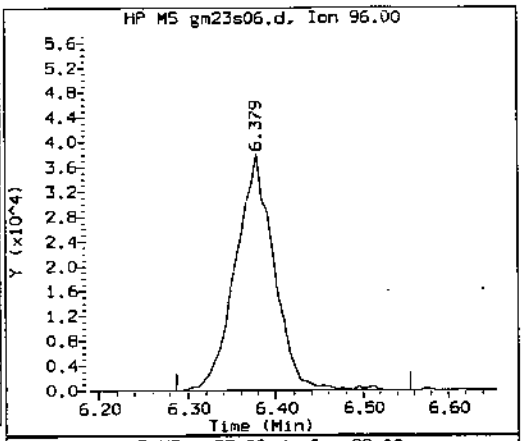
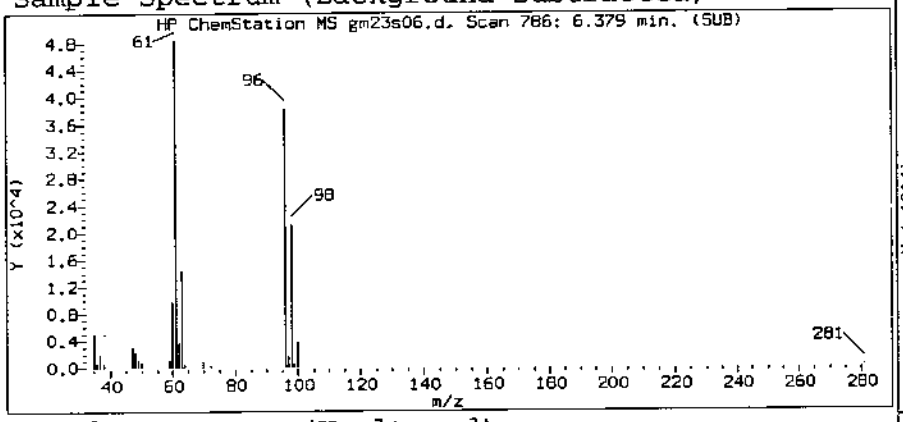
Target 3.5 esignature user ID: jml01693

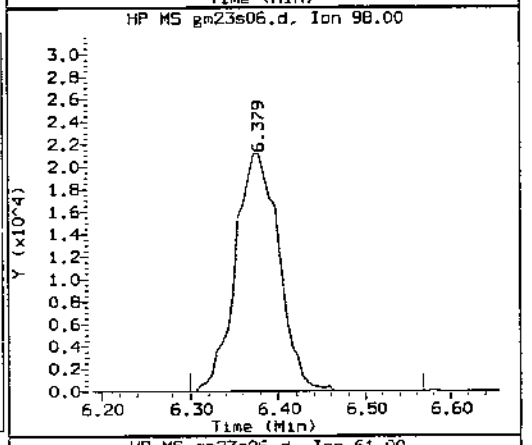
Reference Standard Spectrum for cis-1,2-Dichloroethene



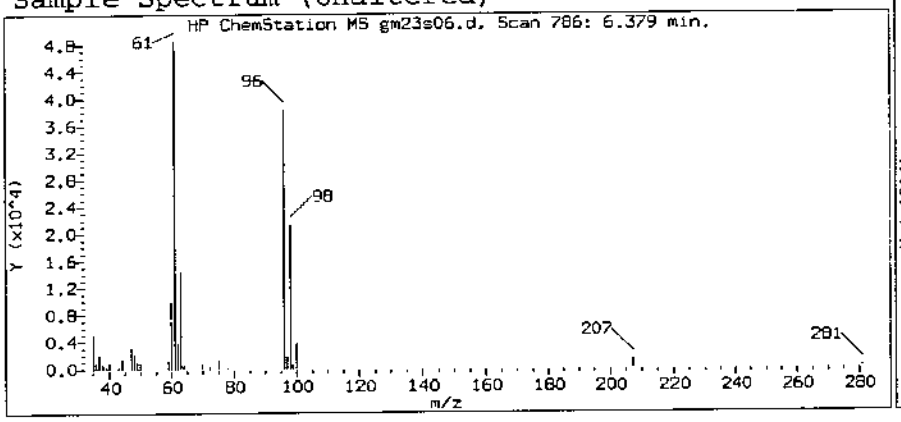


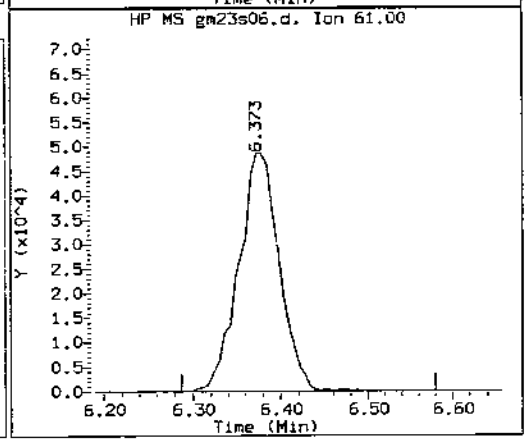
Sample Spectrum (Background Subtracted)





Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233201

Compound Number : 26
Compound Name : cis-1,2-Dichloroethene
Scan Number : 786
Retention Time (minutes): 6.379
Relative Retention Time : 0.000
Quant Ion : 96.00
Area (flag) : 117202
On-Column Amount (ng) : 0.9889

WAT13 8131

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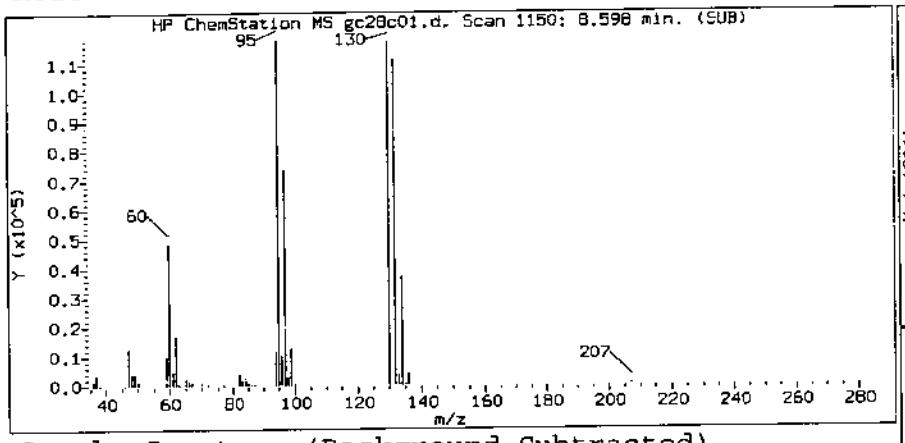
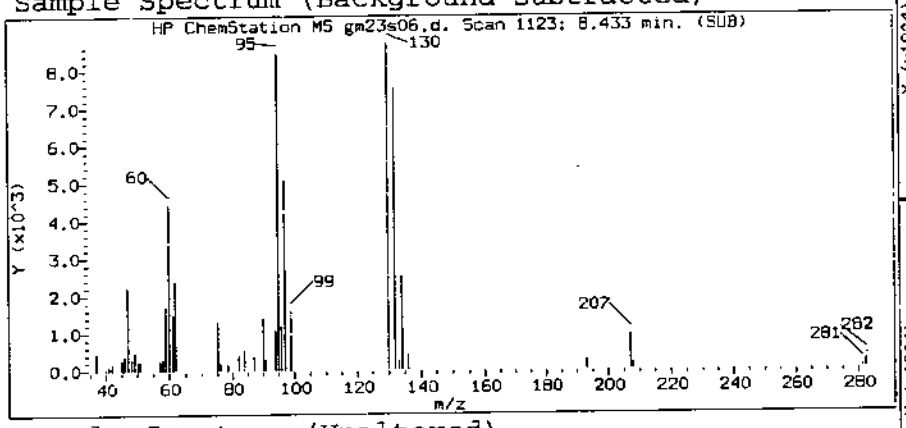
Target 3.5 esignature user ID: jml01693

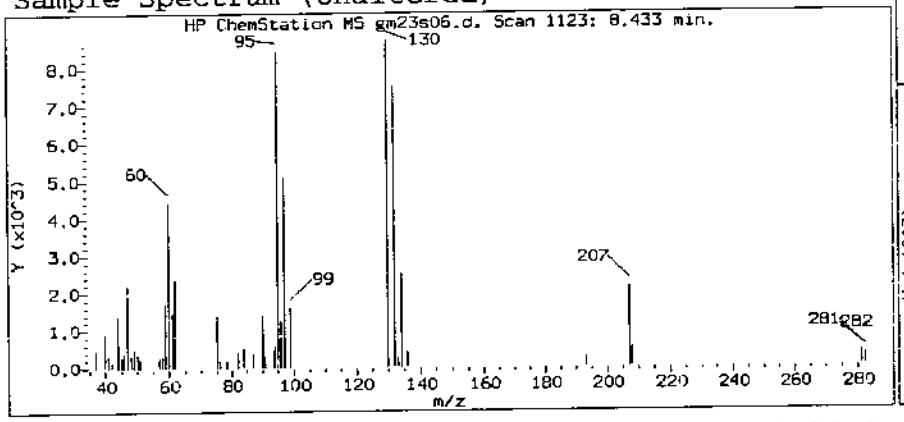
Reference Standard Spectrum for Trichloroethene

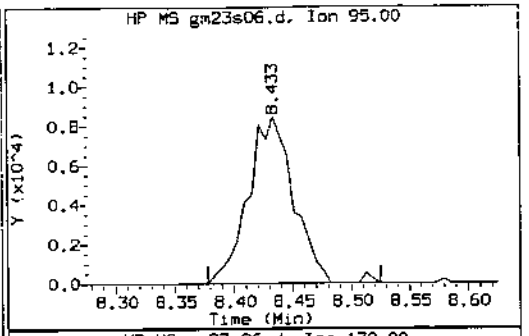


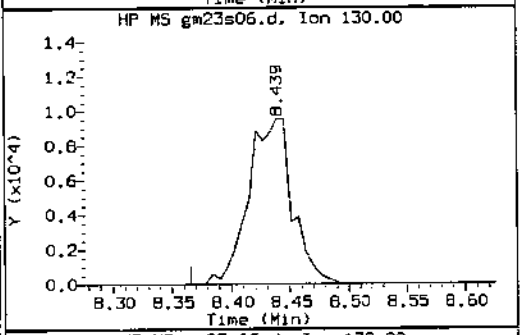
Sample Spectrum (Background Subtracted)

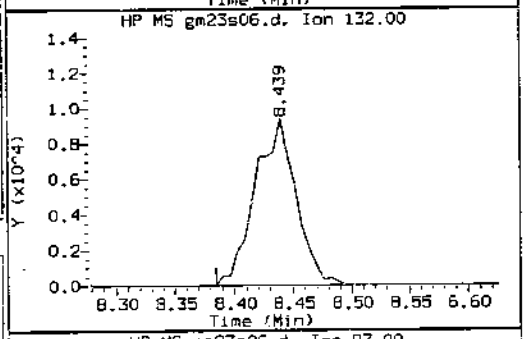


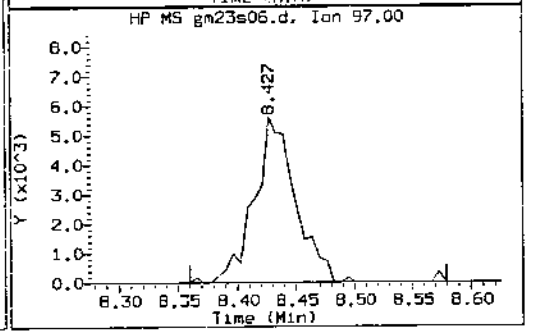
Sample Spectrum (Unaltered)











Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sublist used: DRAPERREV3

Sample Name: XXXXX

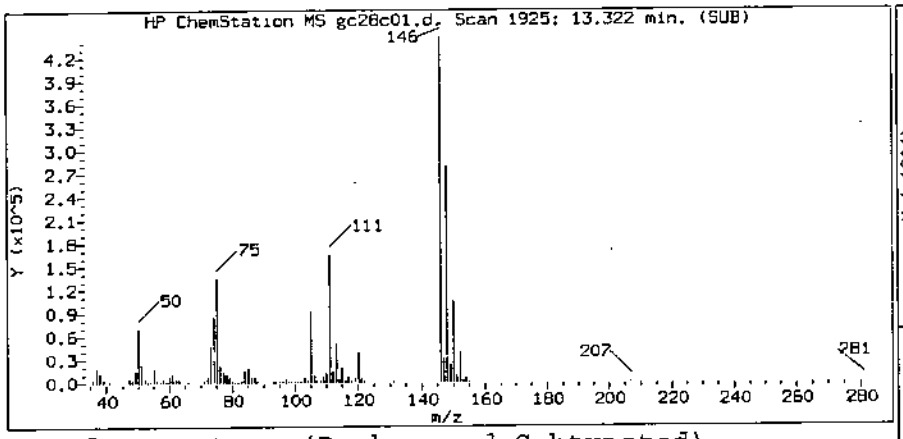
Lab Sample ID: 6233201

Compound Number	: 43
Compound Name	: Trichloroethene
Scan Number	: 1123
Retention Time (minutes)	: 8.433
Relative Retention Time	: -0.000
Quant Ion	: 95.00
Area (flag)	: 22946
On-Column Amount (ng)	: 0.1758

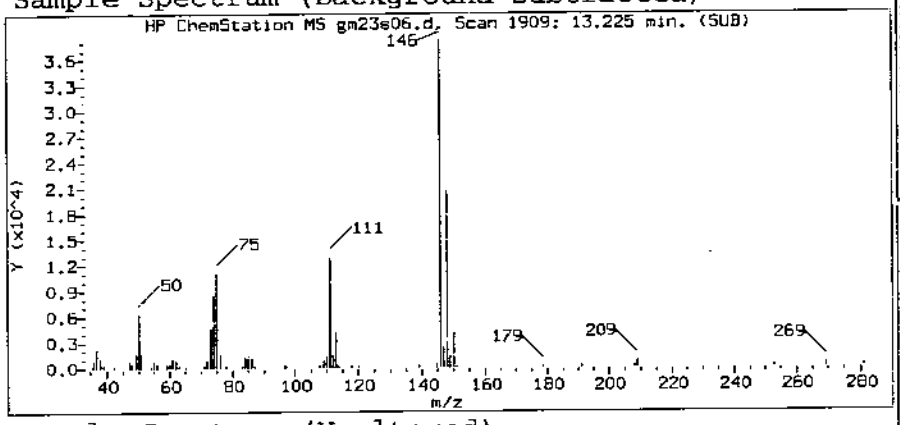
WAT13 8132

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

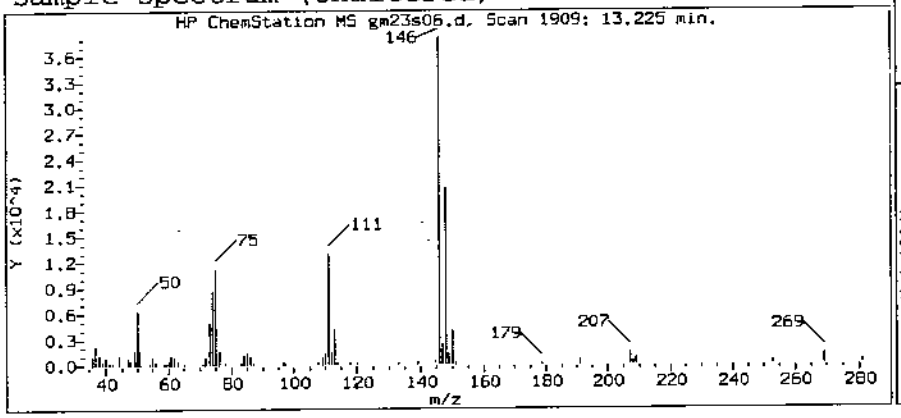
Reference Standard Spectrum for 1,4-Dichlorobenzene

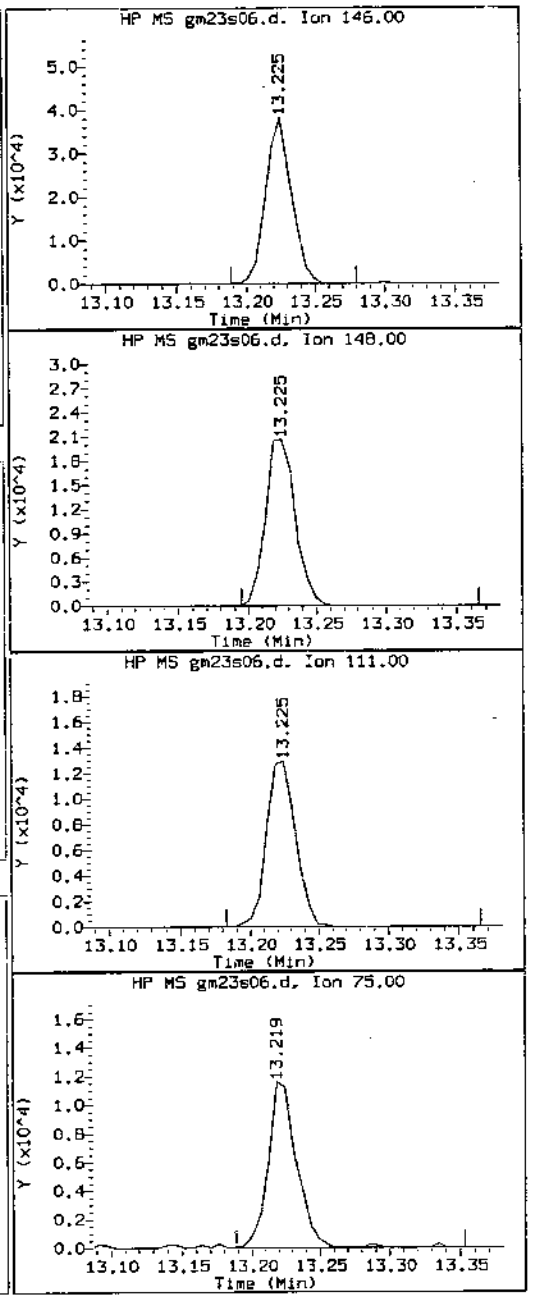


Sample Spectrum (Background Subtracted)



Sample Spectrum (Unaltered)





Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d
Injection date and time: 23-MAR-2011 12:00

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

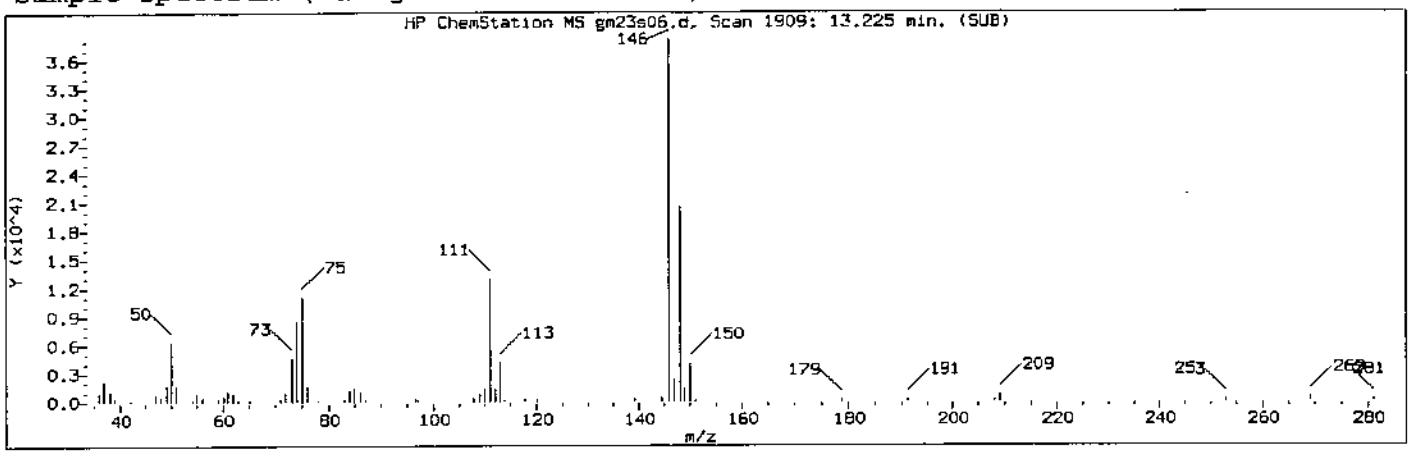
Lab Sample ID: 6233201

Compound Number	: 88
Compound Name	: 1,4-Dichlorobenzene
Scan Number	: 1909
Retention Time (minutes)	: 13.225
Relative Retention Time	: -0.001
Quant Ion	: 146.00
Area (flag)	: 50270M
On-Column Amount (ng)	: 0.2012

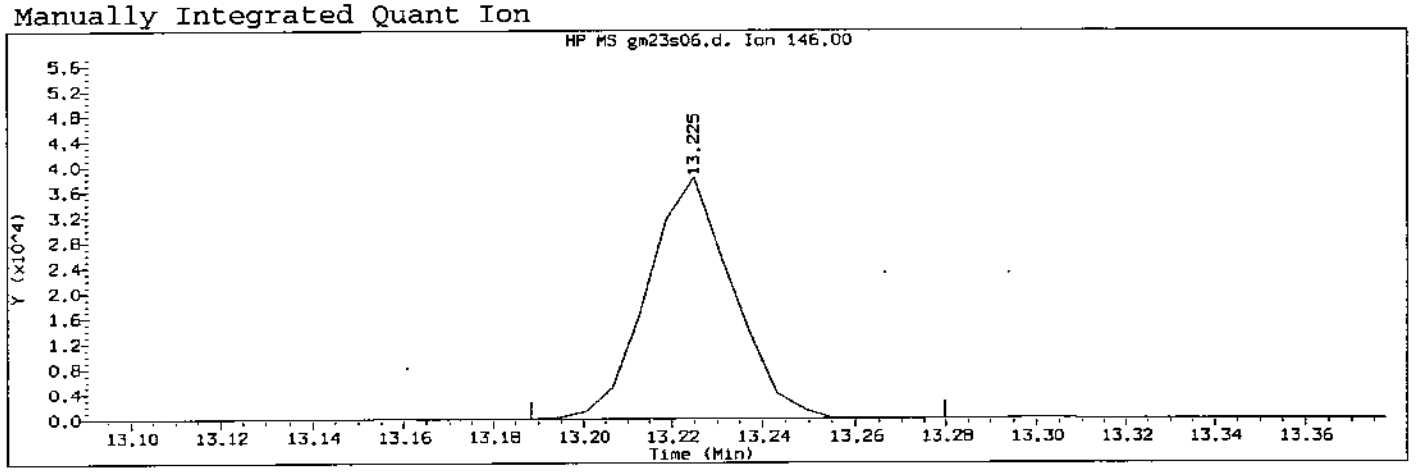
WAT13 8133

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:00 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 13:44
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX Lab Sample ID: 6233201

Compound Number : 88
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1909
Retention Time (minutes): 13.225
Quant Ion : 146.00
Area (flag) : 50270M
On-Column Amount (ng) : 0.2012
Integration start scan : 1902 Integration stop scan: 1917
Y at integration start : 0 Y at integration end: 0

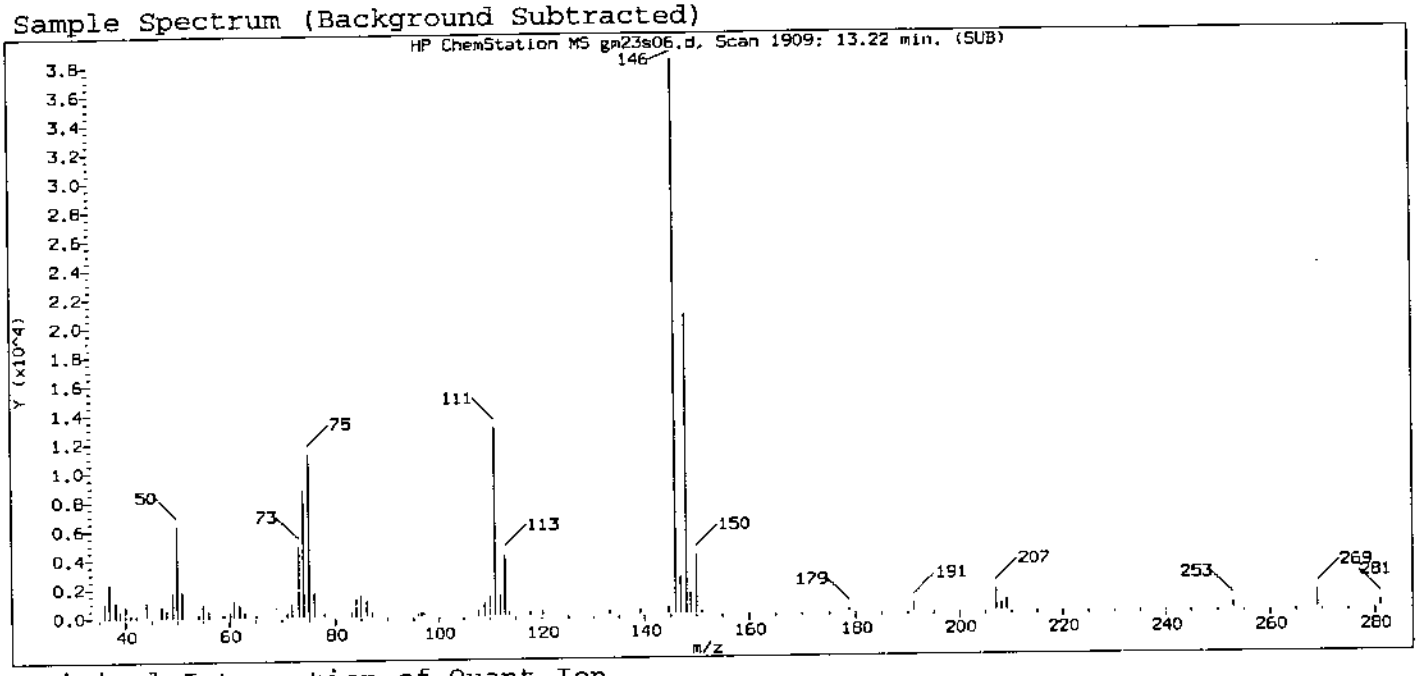
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

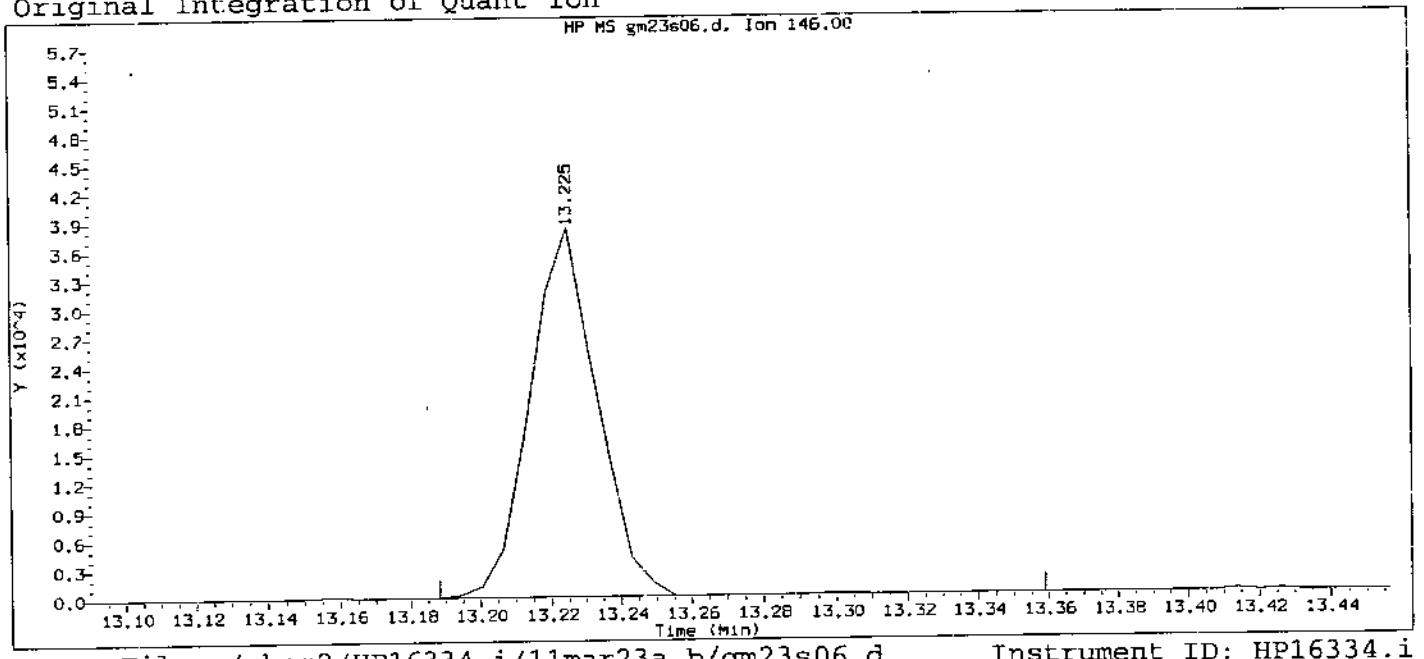
WAT13 0134

GC/MS audit/management approval: LCTDIY 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23s06.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 12:00 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 11:19
Date, time and analyst ID of latest file update: 23-Mar-2011 12:19 Automation

Sample Name: XXXXX Lab Sample ID: 6233201

Compound Number : 88
Compound Name : 1,4-Dichlorobenzene
Scan Number : 1909
Retention Time (minutes): 13.225
Quant Ion : 146.00
Area : 50406
On-column Amount (ng) : 0.2017
Integration start scan : 1902 Integration stop scan: 1930
Y at integration start : 0 Y at integration end: 0

WAT13 0135

Digitally signed by Jason M. Long on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233202

Data file: /chem2/HP16334.i/11mar23a.b/gm23s07.d
Data file Sample Info. Line: XXXXX;6233202;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jm101693

Injection date and time: **23-MAR-2011 12:23**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.957(0.000)	1045	96	1858011 (-6)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	575074	5.082	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.487(0.000)	152	615289	5.094	102%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)			Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)			Not Detected					0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)			Not Detected					0.1	0.5
26) cis-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)			Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)			Not Detected					0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.2	0.5
67) m+p-Xylene	(1)			Not Detected					0.2	0.5
70) Xylene (Total)	(1)			Not Detected						

WAT13 0136

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jm101693

XXXXX

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

6233202

Data file: /chem2/HP16334.i/11mar23a.b/gm23s07.d
Data file Sample Info. Line: XXXXX;6233202;1;0;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Injection date and time: **23-MAR-2011 12:23**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 13:44
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: **38A** Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

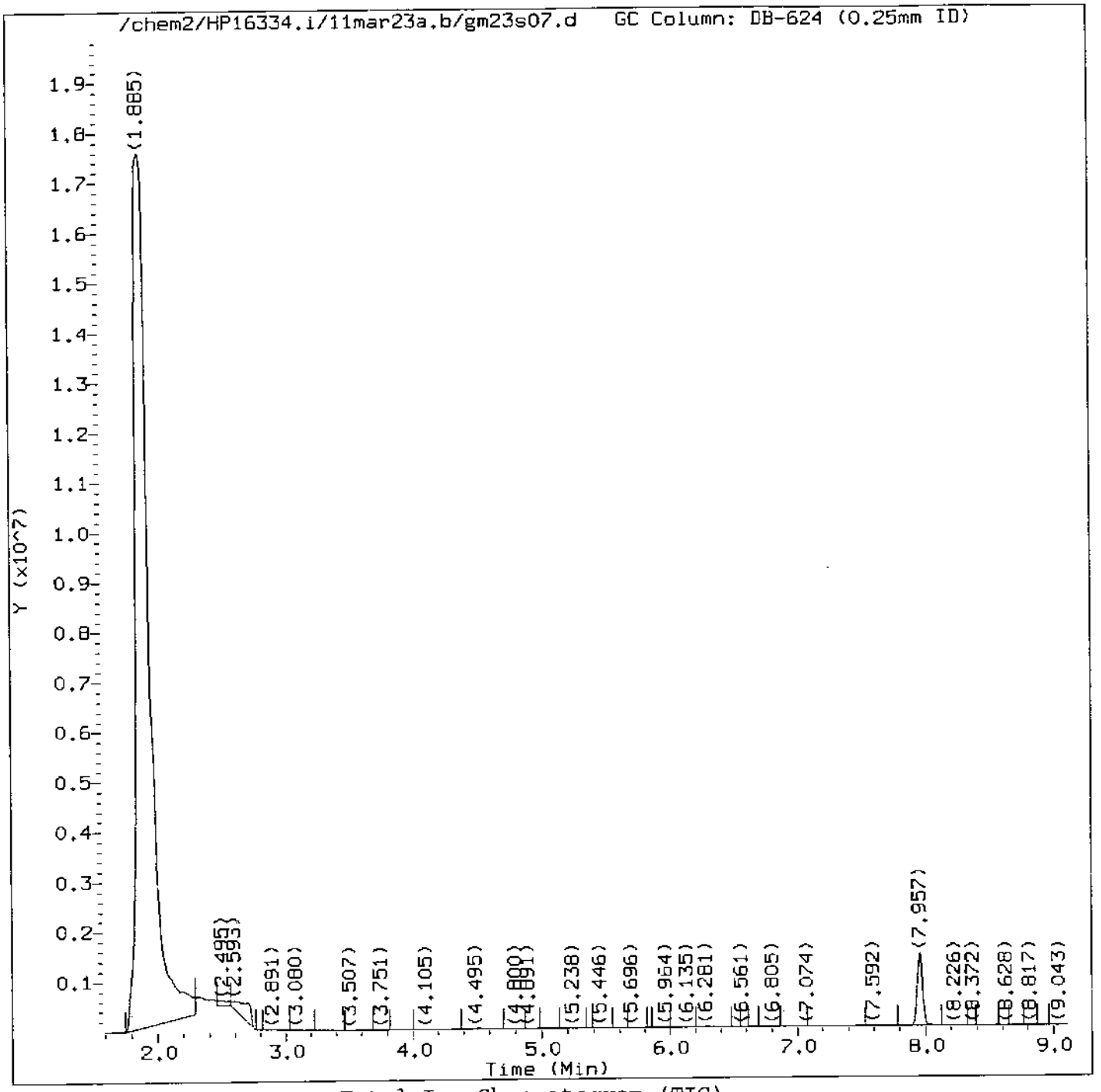
Target Compounds	I.S. Ref.	RT	(+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ (in sample)
68) o-Xylene	(1)				Not Detected					0.1	0.5
69) Styrene	(1)				Not Detected					0.1	0.5
71) Bromoform	(1)				Not Detected					0.2	0.5
72) Isopropylbenzene	(1)				Not Detected					0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)				Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)				Not Detected					0.1	0.5
75) Bromobenzene	(1)				Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)				Not Detected					0.1	0.5
79) 2-Chlorotoluene	(1)				Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)				Not Detected					0.2	0.5
82) tert-Butylbenzene	(1)				Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)				Not Detected					0.1	0.5
78) n-Propylbenzene	(1)				Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)				Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)				Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)				Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)				Not Detected					0.1	0.5
89) n-Butylbenzene	(1)				Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)				Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)				Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)				Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)				Not Detected					0.2	0.5
97) Naphthalene	(1)				Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)				Not Detected					0.2	0.5

Total number of targets = 60

MAT13 8137

Digitally signed by Jason M. Long on 03/23/2011 at 13:46. Target 3.5 esignature user ID: jml01693

Auditor: LOTTI Date: 3/16/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s07.d
Injection date and time: 23-MAR-2011 12:23

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

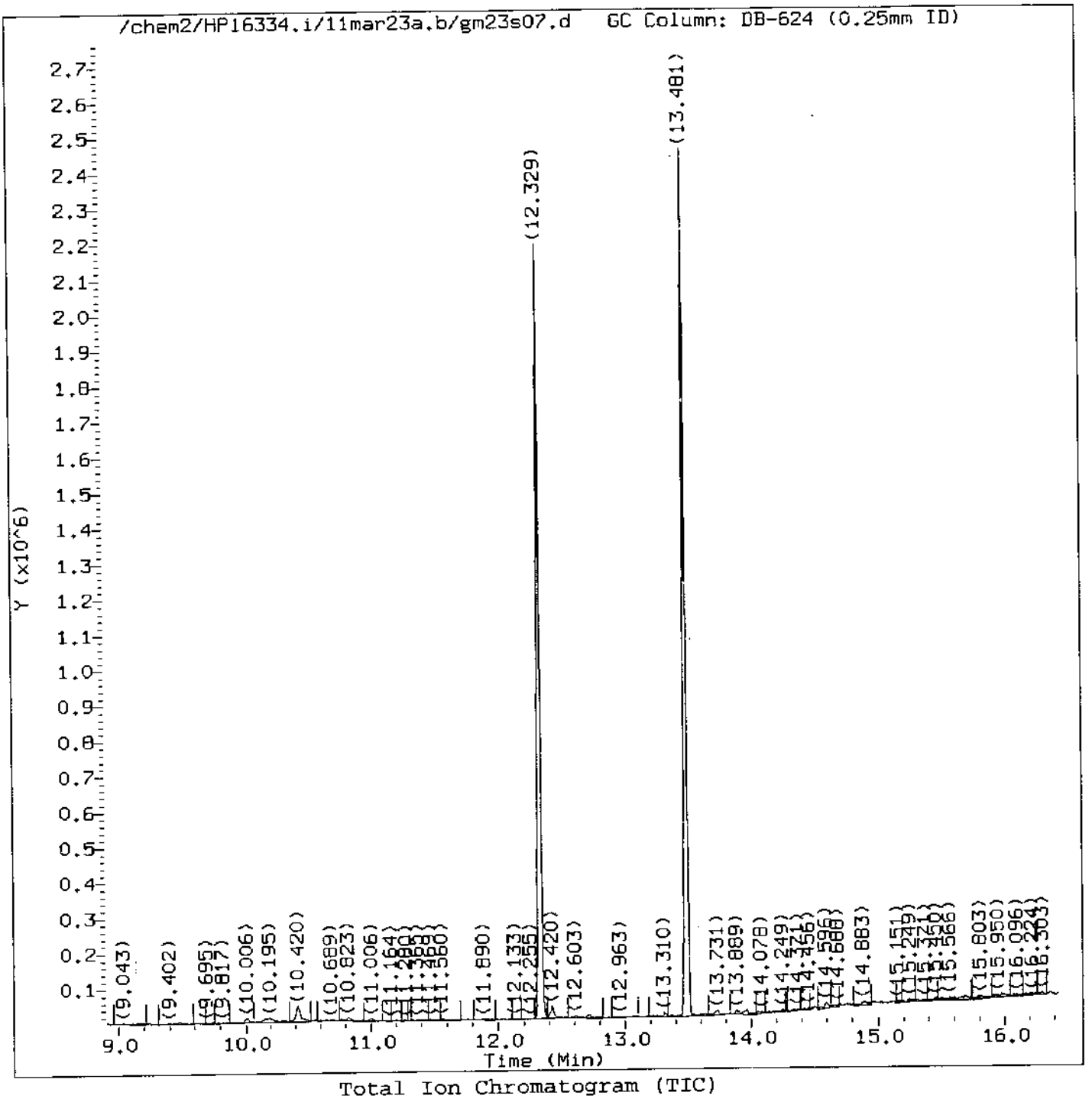
Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233202

WAT13 8138

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s07.d
Injection date and time: 23-MAR-2011 12:23

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233202

WAT13 6139

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23s07.d
Injection date and time: 23-MAR-2011 12:23

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 13:44

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 13:45 jml01693

Sample Name: XXXXX

Lab Sample ID: 6233202

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
42)*Fluorobenzene	(1)	7.957	96	1858011	5.000
73)$4-Bromofluorobenzene	(1)	12.335	174	575074	5.082
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	615289	5.094

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 8140

Digitally signed by Jason M. Long
on 03/23/2011 at 13:46.
Target 3.5 esignature user ID: jml01693

Standards Data

WAT13 0141

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP16334 **HP #29**

** Shift #1 Analyst:____JML_____** Shift #2 Analyst:_____** Shift #3 Analyst:_____*

Comment Code: R = Reinjection necessary X = Sample sent to be reextracted
S = Surrogate problem I = Internal Standard problem
NU = Not used F = Further dilution required
MR = Meets requirements IUO = Internal use only
Cz = Confirms z, (z = S, I or X) T = Injected outside valid tune period

Other problems or comments are as follows:

_____
_____524_REV4_____
_____
_____

Data Directory Path is - c:\msdchem\1\data\11FEB07B\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
GF07T02.D	25ngBFB	BFB OCT13-10	07 Feb 2011	14:01			MR
GF07I01.D	VSTD025	VSTD025	07 Feb 2011	14:21			MR
GF07I02.D	VSTD010	VSTD010	07 Feb 2011	14:43			MR
GF07I03.D	VSTD005	VSTD005	07 Feb 2011	15:05			MR
GF07I04.D	VSTD0.5	VSTD0.5	07 Feb 2011	15:28			NU
GF07I05.D	VSTD0.5	VSTD0.5	07 Feb 2011	15:49			MR
GF07L01.D	LFBG68	LFBG68	07 Feb 2011	16:11	G110381AA		MR
GF07B01.D	VBLKG68	VBLKG68	07 Feb 2011	16:33	G110381AA		
GF07M01.D	MDL0.1	1MDL#1	07 Feb 2011	16:54	G110381AA		
GF07M02.D	MDL0.1	1MDL#2	07 Feb 2011	17:16	G110381AA		
GF07M03.D	MDL0.1	1MDL#3	07 Feb 2011	17:38	G110381AA		
GF07M04.D	MDL0.1	1MDL#4	07 Feb 2011	17:59	G110381AA		
GF07M11.D	MDL0.25	2MDL#1	07 Feb 2011	18:21	G110381AA		
GF07M12.D	MDL0.25	2MDL#2	07 Feb 2011	18:43	G110381AA		
GF07M13.D	MDL0.25	2MDL#3	07 Feb 2011	19:05	G110381AA		
GF07M14.D	MDL0.25	2MDL#4	07 Feb 2011	19:27	G110381AA		
GF07M21.D	MDL0.25	3MDL#1	07 Feb 2011	19:48	G110381AA		
GF07M22.D	MDL0.25	3MDL#2	07 Feb 2011	20:10	G110381AA		
GF07M23.D	MDL0.25	3MDL#3	07 Feb 2011	20:32	G110381AA		
GF07M24.D	MDL0.25	3MDL#4	07 Feb 2011	20:53	G110381AA		
GF07M25.D	MDL0.25	3MDL#5	07 Feb 2011	21:15	G110381AA		
GF07M26.D	MDL0.25	3MDL#6	07 Feb 2011	21:37	G110381AA		
GF07M27.D	MDL0.25	3MDL#9	07 Feb 2011	21:58	G110381AA		

Lancaster Laboratories
Runlog for Hewelet Packard GC/MS System HP16334 **HP #29**

** Shift #1 Analyst:___JML_____** Shift #2 Analyst:_____** Shift #3 Analyst:_____*

Comment Code:

R	= Reinjection necessary	X	= Sample sent to be reextracted
S	= Surrogate problem	I	= Internal Standard problem
NU	= Not used	F	= Further dilution required
MR	= Meets requirements	IUO	= Internal use only
Cz	= Confirms z, (z = S, I or X)	T	= Injected outside valid tune period

Other problems or comments are as follows:

_____

_____524_REV4_WATERS_____

_____

_____

Data Directory Path is - c:\msdchem\1\data\11MAR23A\

FILE	SAMPLE	LLI#	DATE	TIME	BATCH	D.F.	NOTES
GM23T01.D	25ngBFB	BFB OCT13-10	23 Mar 2011	08:57			MR
GM23C01.D	VSTD010	VSTD010	23 Mar 2011	09:05			MR
GM23B01.D	VBLKG16	VBLKG16	23 Mar 2011	09:26	G110821AA		MR
GM23L01.D	LFBG16	LFBG16	23 Mar 2011	09:48	G110821AA		MR
GM23S01.D	XXXXX	6233196	23 Mar 2011	10:11	G110821AA		MR
GM23S02.D	XXXXX	6233197	23 Mar 2011	10:33	G110821AA		MR
GM23S03.D	XXXXX	6233198	23 Mar 2011	10:55	G110821AA		NU
GM23S04.D	XXXXX	6233199	23 Mar 2011	11:16	G110821AA		MR
GM23S05.D	XXXXX	6233200	23 Mar 2011	11:38	G110821AA		F
GM23S06.D	XXXXX	6233201	23 Mar 2011	12:00	G110821AA		MR
GM23S07.D	XXXXX	6233202	23 Mar 2011	12:23	G110821AA		MR
GM23S08.D	XXXXXDL	6233200DL	23 Mar 2011	12:45	G110821AA	5	MR
GM23S09.D	XXXXX	6233198	23 Mar 2011	13:07	G110821AA		MR

Data File: /chem2/HP16334.i/11feb07b.b/gf07t02.d

Date : 07-FEB-2011 14:01

Client ID: 25ngBFB

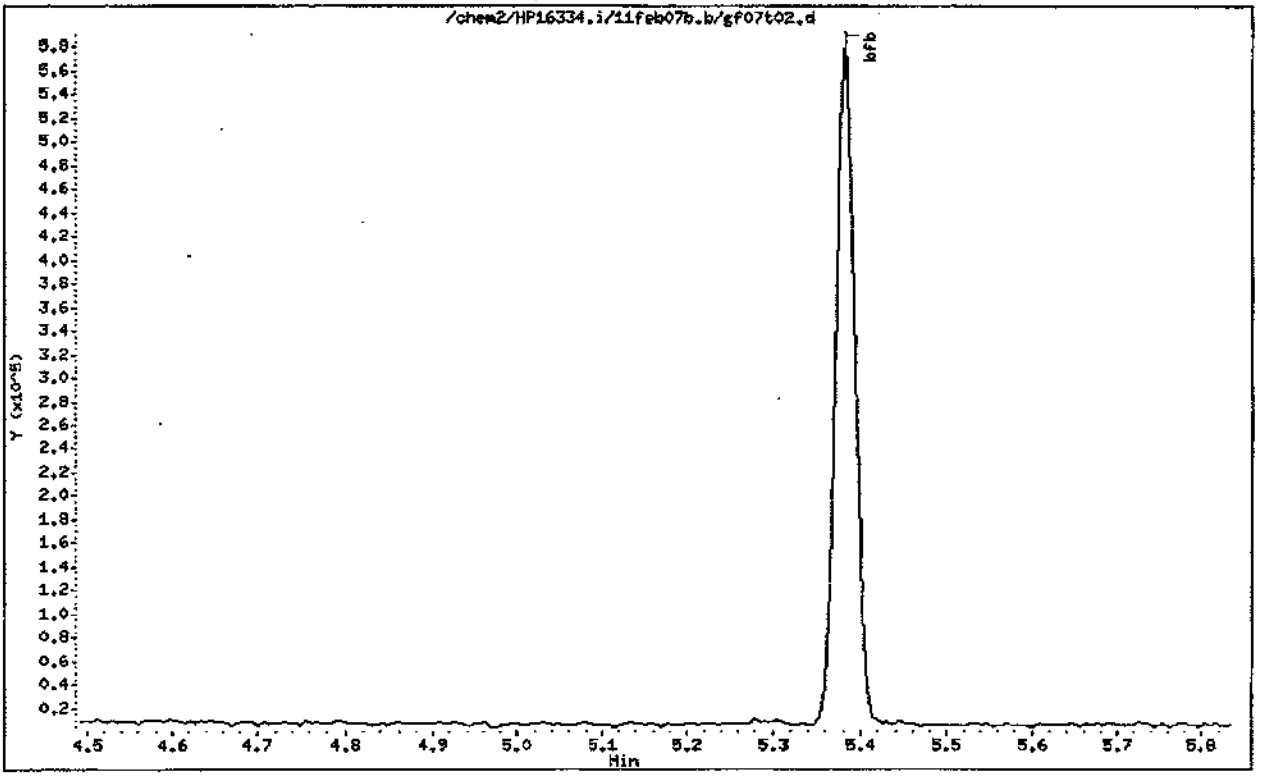
Instrument: HP16334.i

Sample Info: 25ngBFB;BFB OCT13-10;1;3;;

Operator: JHL01693

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jason M. Long on 02/08/2011 at 06:42.
Target 3.5 esignature user ID: jml01693

Data File: /chem2/HP16334.i/11feb07b.b/gf07t02.d

Date : 07-FEB-2011 14:01

Client ID: 25ngBFB

Instrument: HP16334.i

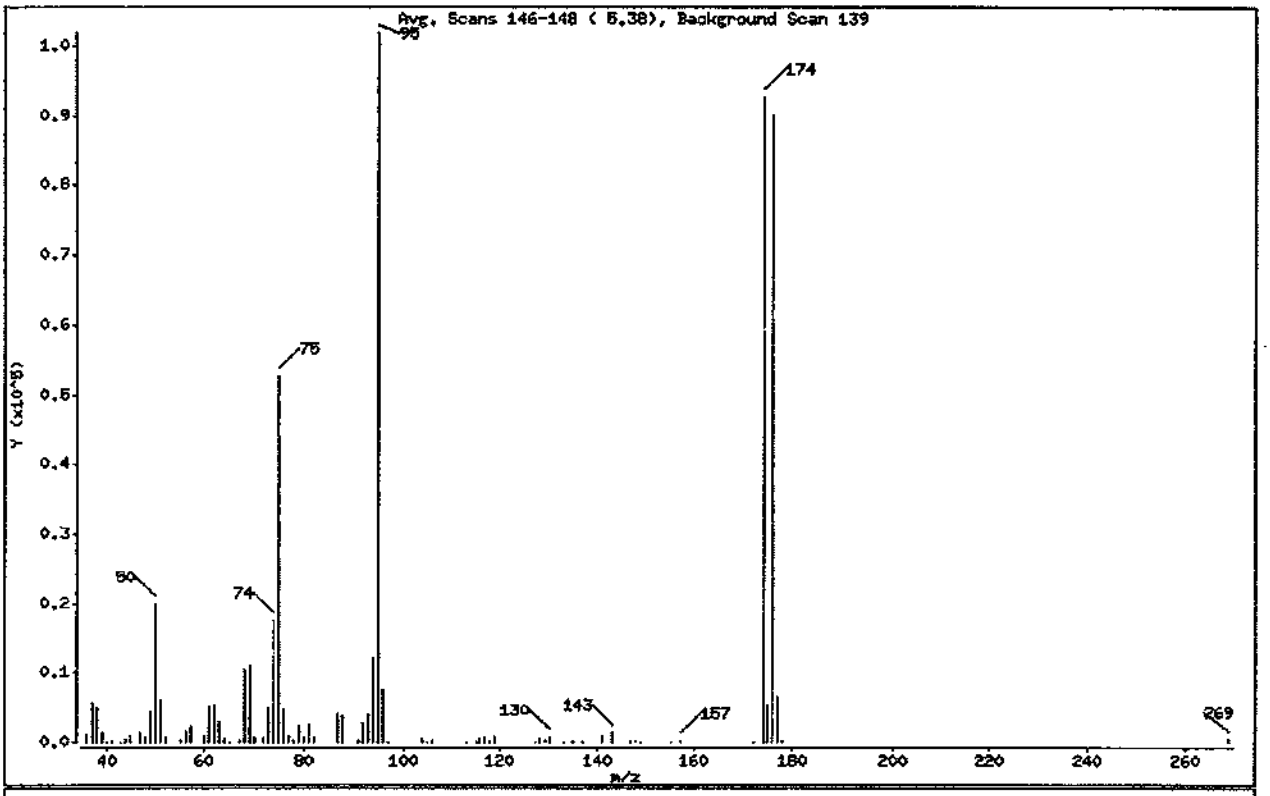
Sample Info: 25ngBFB;BFB DCT13-10;1;3;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25

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	19.48
75	30.00 - 80.00% of mass 95	51.73
96	5.00 - 9.00% of mass 95	7.45
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	91.07
175	5.00 - 9.00% of mass 174	5.19 (5.69)
176	95.00 - 101.00% of mass 174	88.46 (97.13)
177	5.00 - 9.00% of mass 176	6.43 (7.27)

Digitally signed by Jason M. Long on 02/08/2011 at 06:42.
Target 3.5 esignature user ID: jml01693

Data File: /chem2/HP16334.i/11feb07b.b/gf07t02.d

Date : 07-FEB-2011 14:01

Client ID: 25ngBFB

Instrument: HP16334.i

Sample Info: 25ngBFB;BFB OCT13-10;1;3;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25

Data File: gf07t02.d

Spectrum: Avg. Scans 146-148 (5.39), Background Scan 139

Location of Maximum: 95.00

Number of points: 78

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1211	62.00	5387	88.00	3721	130.00	675
37.00	5688	63.00	3062	91.00	271	133.00	3
38.00	5026	64.00	466	92.00	2855	135.00	133
39.00	1306	65.00	91	93.00	3907	137.00	110
40.00	72	67.00	130	94.00	12204	141.00	882
41.00	208	68.00	10631	95.00	101896	143.00	1331
43.00	97	69.00	11096	96.00	7595	147.00	149
44.00	442	70.00	689	97.00	88	148.00	350
45.00	1030	72.00	627	104.00	428	149.00	93
47.00	1433	73.00	4965	105.00	98	155.00	117
48.00	758	74.00	17664	106.00	342	157.00	131
49.00	4380	75.00	52712	113.00	83	172.00	89
50.00	19848	76.00	4591	115.00	96	174.00	92800
51.00	5997	77.00	823	116.00	453	175.00	5284
52.00	617	78.00	120	117.00	664	176.00	90136
55.00	338	79.00	2316	118.00	223	177.00	6856
56.00	1561	80.00	683	119.00	665	178.00	252
57.00	2324	81.00	2650	127.00	87	269.00	451
60.00	946	82.00	665	128.00	869		
61.00	5209	87.00	4143	129.00	237		

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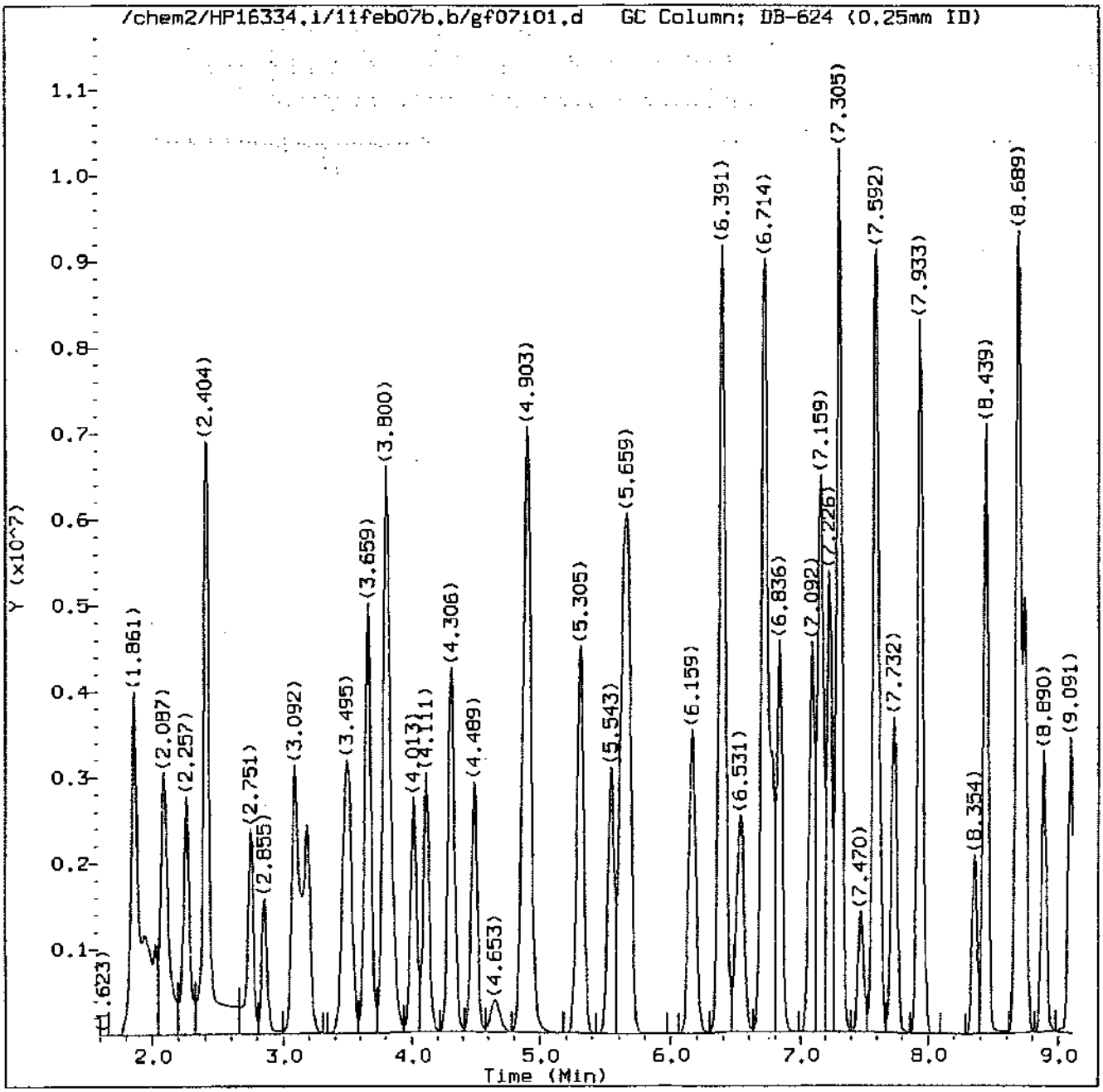
Target 3.5 esignature user ID: jml01693

WAT13 8146



Total Ion Chromatogram (TIC)

Target Revision 3.5

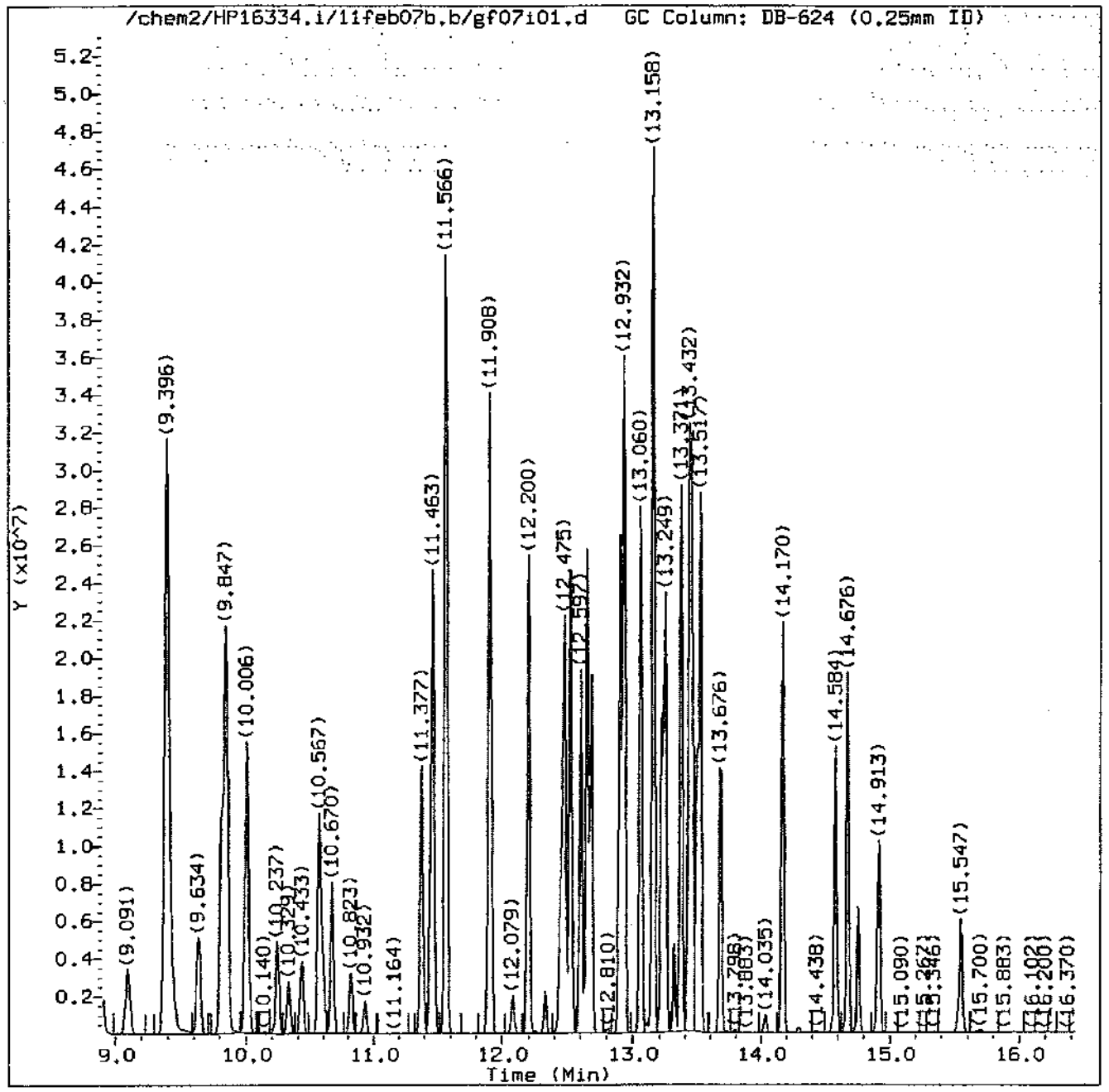
Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

MAT13 8147



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 0148

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.087	85	4944122	24.807
2) Chloromethane	(1)	2.257	50	4034271	24.004
3) Vinyl Chloride	(1)	2.404	62	3819543	24.705
4) Bromomethane	(1)	2.751	94	2383592	23.758
5) Chloroethane	(1)	2.855	64	2034151	24.114
6) Dichlorofluoromethane	(1)	3.086	67	4820732	24.399
7) Trichlorofluoromethane	(1)	3.184	101	5521145M	24.883
8) Ethyl Ether	(1)	3.470	59	1254306	24.871
9) Acrolein	(1)	3.659	56	7918905	1298.592
10) 1,1-Dichloroethene	(1)	3.794	96	2472522	24.674
11) Freon 113	(1)	3.812	101	2694994	24.667
12) Acetone	(1)	3.855	58	583724	249.855
13) Methyl Iodide	(1)	4.013	142	4801379	25.128
14) Carbon Disulfide	(1)	4.111	76	7015493	25.316
15) Allyl Chloride	(1)	4.306	39	3054318	24.894
17) Methylene Chloride	(1)	4.495	84	2474320	24.680
18) t-Butyl Alcohol	(1)	4.653	59	1265351	507.489
19) Acrylonitrile	(1)	4.873	53	3693991	318.501
21) Methyl Tertiary Butyl Ether	(1)	4.903	73	3933868	25.551
20) trans-1,2-Dichloroethene	(1)	4.909	96	2923991	24.684
22) 1,1-Dichloroethane	(1)	5.543	63	5306853	24.696
24) di-Isopropyl Ether	(1)	5.635	87	2089029	25.210
25) Ethyl t-Butyl Ether	(1)	6.159	59	5878577	25.316
26) cis-1,2-Dichloroethene	(1)	6.385	96	2947621	24.798
27) 2,2-Dichloropropane	(1)	6.391	77	4959037	24.834
28) 2-Butanone	(1)	6.403	43	3337172	263.282
29) Propionitrile	(1)	6.506	54	2205311	512.549
30) Methyl Acrylate	(1)	6.543	55	4500581	130.331
31) Methacrylonitrile	(1)	6.714	67	3756079	256.828
32) Bromochloromethane	(1)	6.720	128	1017121	24.922
33) Tetrahydrofuran	(1)	6.775	71	1231614	363.910
34) Chloroform	(1)	6.836	83	5322660	24.944
35) 1,1,1-Trichloroethane	(1)	7.086	97	4963649	25.112
36) 1-Chlorobutane	(1)	7.226	49	266018	23.872
38) 1,1-Dichloropropene	(1)	7.305	75	4309510	24.703
37) Carbon Tetrachloride	(1)	7.311	117	4485855	25.404
39) Benzene	(1)	7.586	78	11203008	24.684
40) 1,2-Dichloroethane	(1)	7.616	62	2527148	25.099

M = Compound was manually integrated.

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on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8149

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.732	73	4535292	25.286
42)*Fluorobenzene	(1)	7.957	96	1871467	5.000
43) Trichloroethene	(1)	8.439	95	3226224	24.648
44) 1,2-Dichloropropane	(1)	8.738	63	2640016	24.803
45) Methyl Methacrylate	(1)	8.884	69	697793	26.288
46) Dibromomethane	(1)	8.890	93	984953	25.600
47) Bromodichloromethane	(1)	9.091	83	3090947	25.875
48) 2-Nitropropane	(1)	9.396	46	998649	2849.454
49) Chloroacetonitrile	(1)	9.439	75	2219362	1291.820
50) cis-1,3-Dichloropropene	(1)	9.634	75	3502912	26.028
51) 4-Methyl-2-Pentanone	(1)	9.811	58	3111726	258.315
52) 1,1-Dichloropropanone	(1)	9.847	83	1684039	2677.903
53) Toluene	(1)	10.006	92	7425286	25.054
55) trans-1,3-Dichloropropene	(1)	10.244	75	2749632	26.331
56) Ethyl Methacrylate	(1)	10.329	69	1499168	26.296
57) 1,1,2-Trichloroethane	(1)	10.433	83	1101514	25.279
58) Tetrachloroethene	(1)	10.567	166	3862486	24.638
59) 1,3-Dichloropropane	(1)	10.597	76	2295730	25.300
60) 2-Hexanone	(1)	10.670	58	2768541	262.126
61) Dibromochloromethane	(1)	10.823	129	1790128	26.964
62) 1,2-Dibromoethane	(1)	10.932	107	1208036	25.582
64) Chlorobenzene	(1)	11.377	112	7772848	25.204
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	2630216	25.684
66) Ethylbenzene	(1)	11.463	106	4619853	25.235
67) m+p-Xylene	(1)	11.566	106	11420118	50.920
70) Xylene (Total)	(1)		106	16781938	75.982
68) o-Xylene	(1)	11.902	106	5361820	25.062
69) Styrene	(1)	11.914	104	8299432	26.367
71) Bromoform	(1)	12.085	173	939243	26.851
72) Isopropylbenzene	(1)	12.200	120	3993501	25.215
73)$4-Bromofluorobenzene	(1)	12.328	174	577399	5.066
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	1264071M	25.845
75) Bromobenzene	(1)	12.457	156	2935010	25.266
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	3407863M	276.665
76) 1,2,3-Trichloropropane	(1)	12.475	110	359213	24.853
78) n-Propylbenzene	(1)	12.524	120	4273284	25.168
79) 2-Chlorotoluene	(1)	12.597	126	3449821	24.944
80) 1,3,5-Trimethylbenzene	(1)	12.652	105	12777873	24.965

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 6158

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.682	126	3394581	24.921
82) tert-Butylbenzene	(1)	12.902	134	2875992M	25.700
83) Pentachloroethane	(1)	12.932	167	1924667	26.667
84) 1,2,4-Trimethylbenzene	(1)	12.938	105	13083115	25.031
85) sec-Butylbenzene	(1)	13.060	134	3466369	25.283
87) 1,3-Dichlorobenzene	(1)	13.158	146	6671933	25.286
86) p-Isopropyltoluene	(1)	13.164	119	13730940	23.319
88) 1,4-Dichlorobenzene	(1)	13.225	146	6317114	25.210
89) n-Butylbenzene	(1)	13.450	92	7893162	25.270
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	624777	5.135
91) 1,2-Dichlorobenzene	(1)	13.493	146	5188857	24.880
92) Hexachloroethane	(1)	13.682	201	2489576	26.286
93) 1,2-Dibromo-3-Chloropropane	(1)	14.035	157	252495	26.486
94) Nitrobenzene	(1)	14.176	77	1202523	617.600
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	4332378	24.974
96) Hexachlorobutadiene	(1)	14.675	225	3521949	25.136
97) Naphthalene	(1)	14.761	128	4830353	25.736
98) 1,2,3-Trichlorobenzene	(1)	14.919	180	3130457	24.750

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

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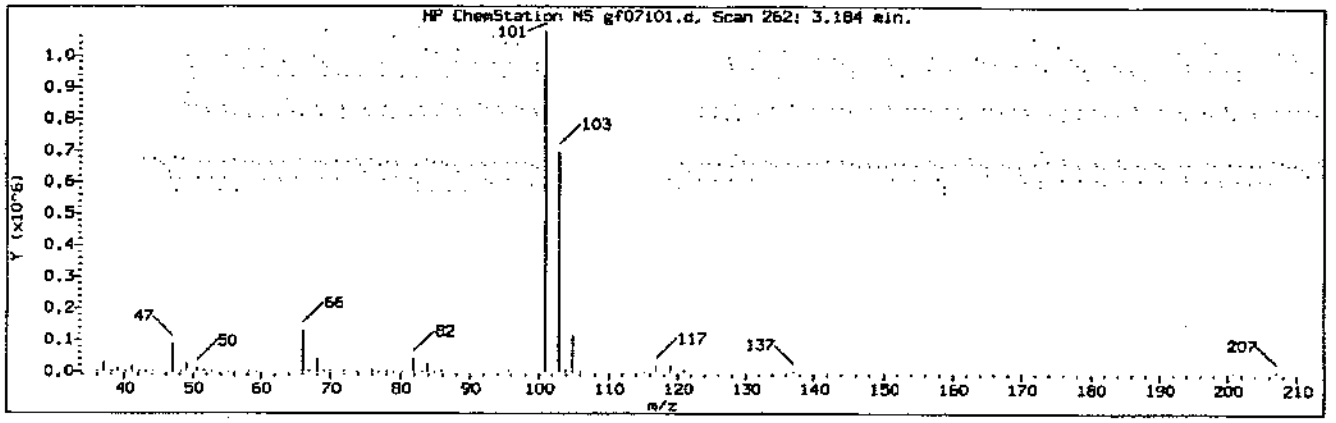
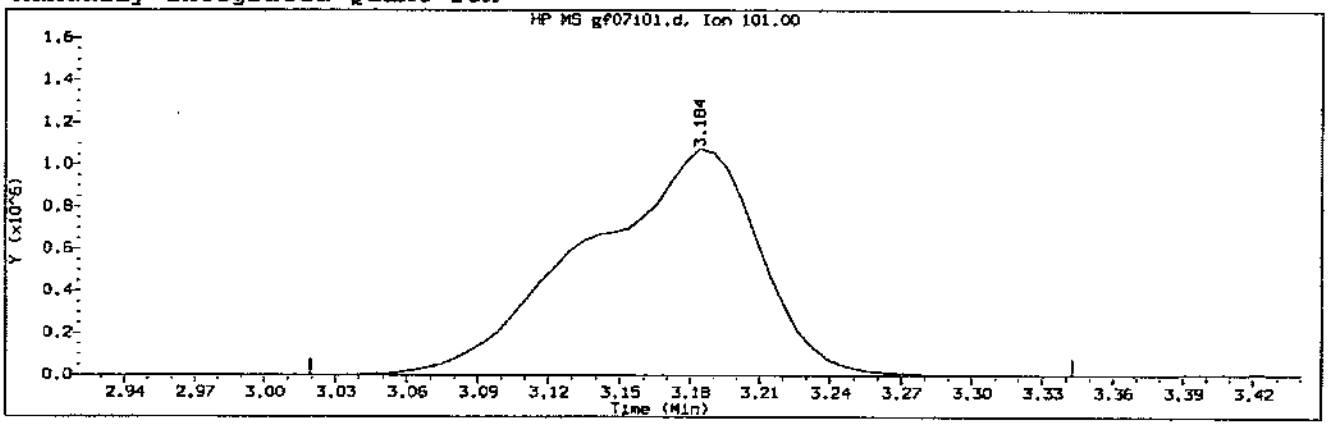
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8151

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

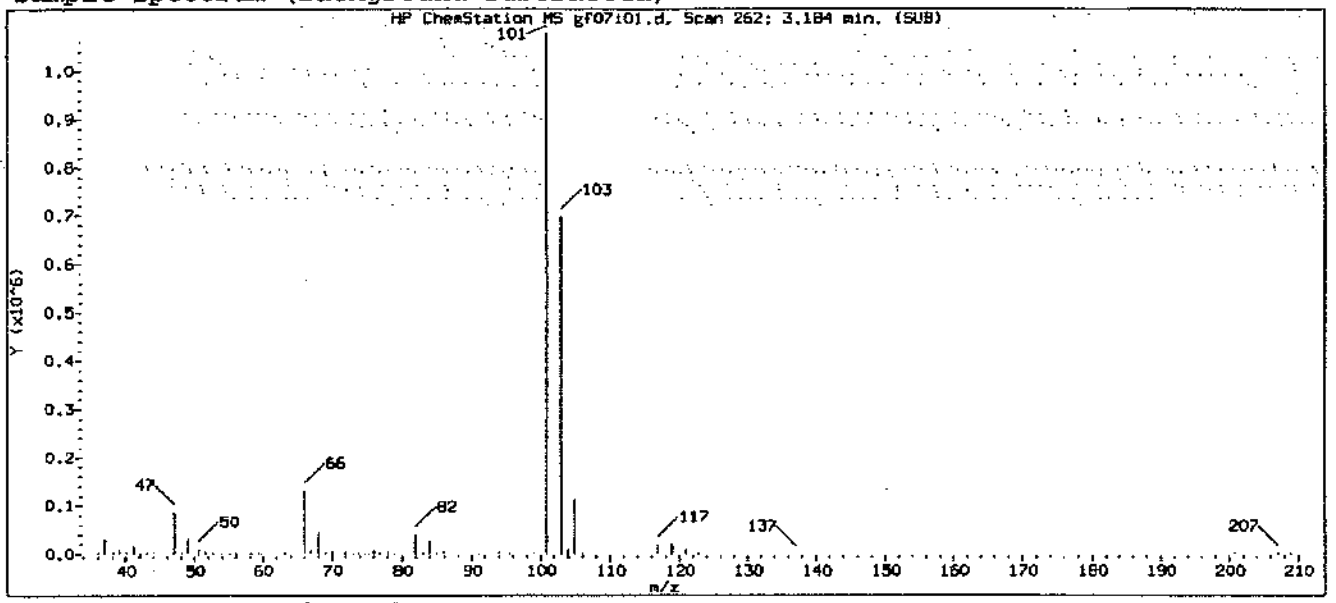
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 262
Retention Time (minutes): 3.184
Quant Ion : 101.00
Area (flag) : 5521145M
On-Column Amount (ng) : 24.8828
Integration start scan : 234 Integration stop scan: 287
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

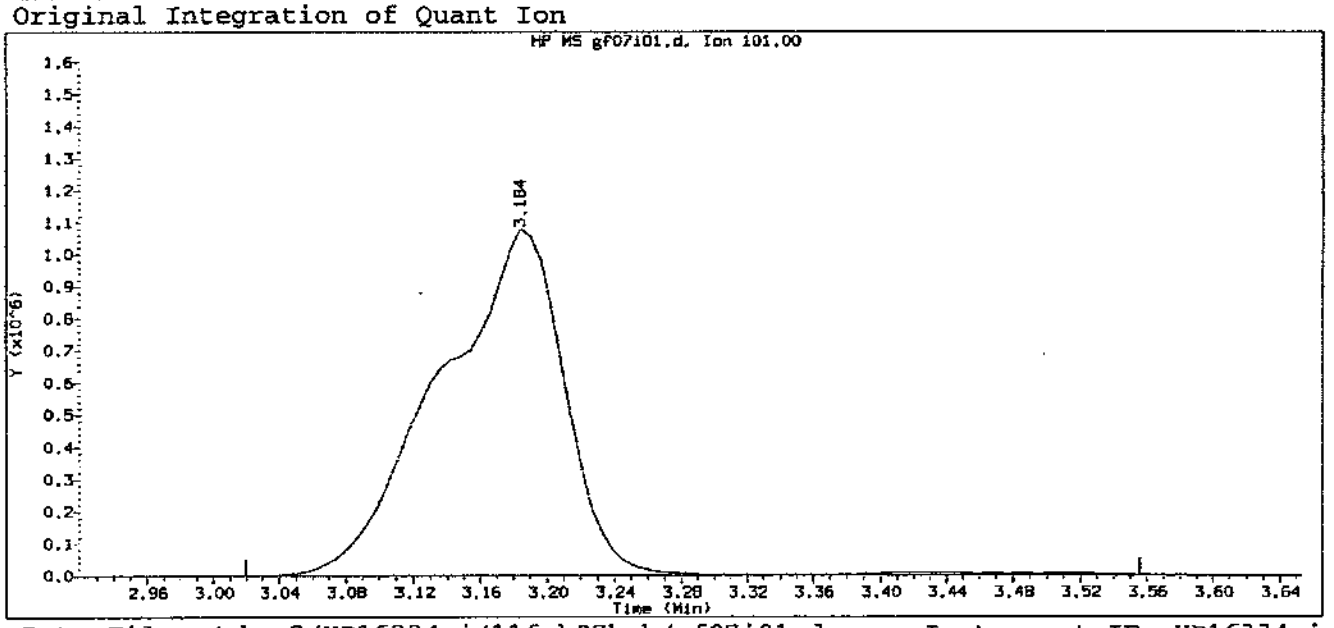
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8152

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 14:39
Date, time and analyst ID of latest file update: 07-Feb-2011 14:39 Automation

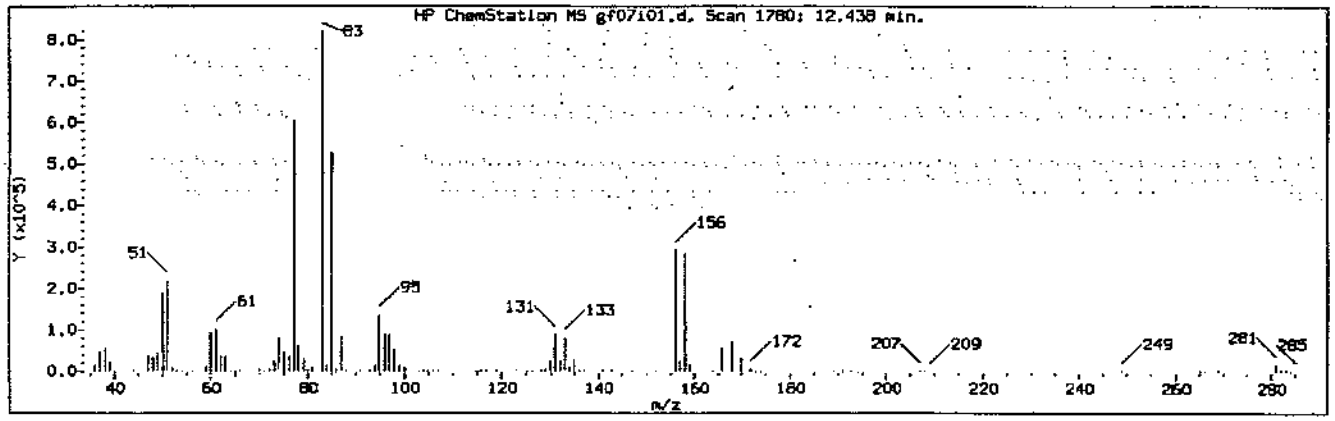
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 262
Retention Time (minutes): 3.184
Quant Ion : 101.00
Area : 5589555
On-column Amount (ng) : 26.5963
Integration start scan : 234 Integration stop scan: 322
Y at integration start : 0 Y at integration end: 0

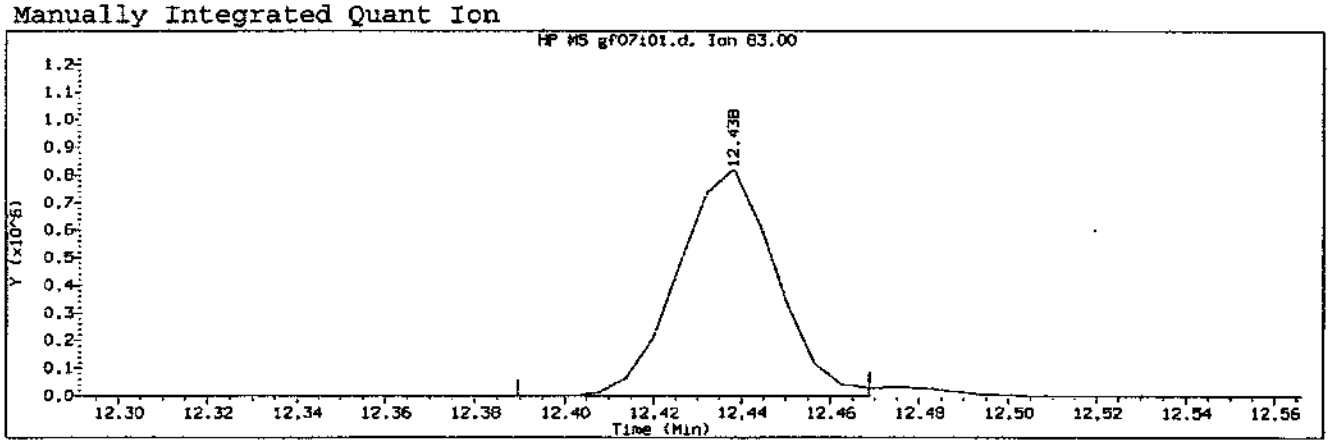
WAT13 8153

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jm101693

Sample Name: VSTD025 Lab Sample ID: VSTD025

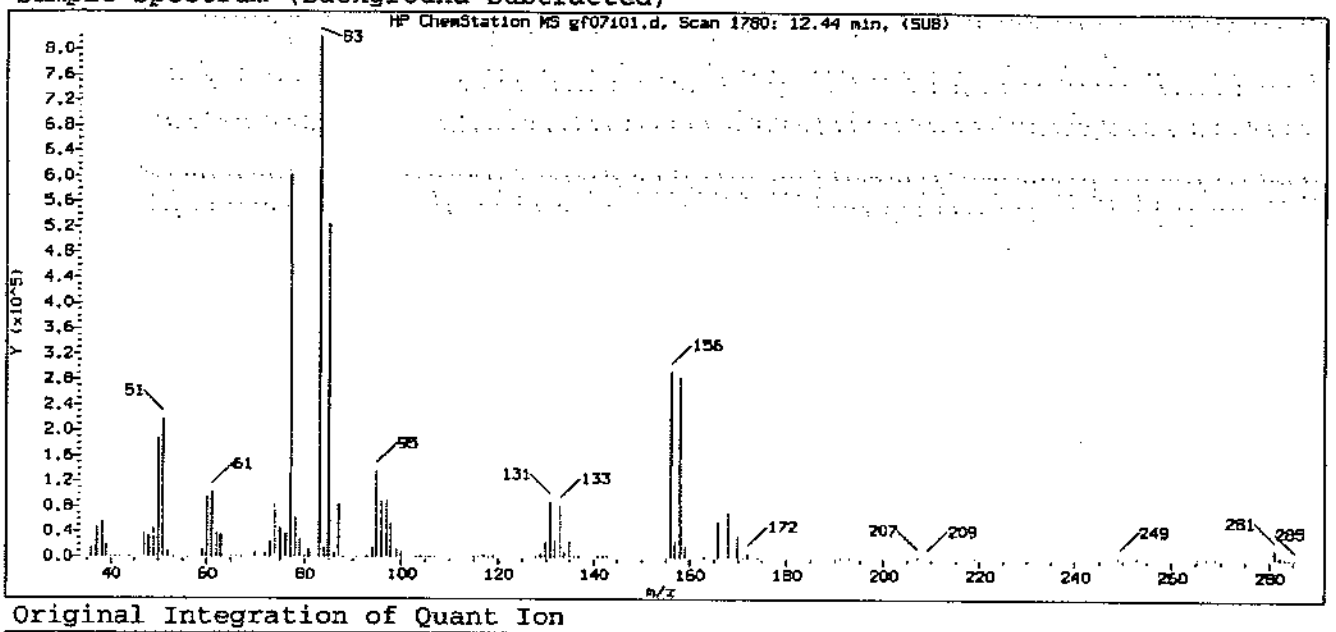
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area (flag) : 1264071M
On-Column Amount (ng) : 25.8448
Integration start scan : 1771 Integration stop scan: 1784
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

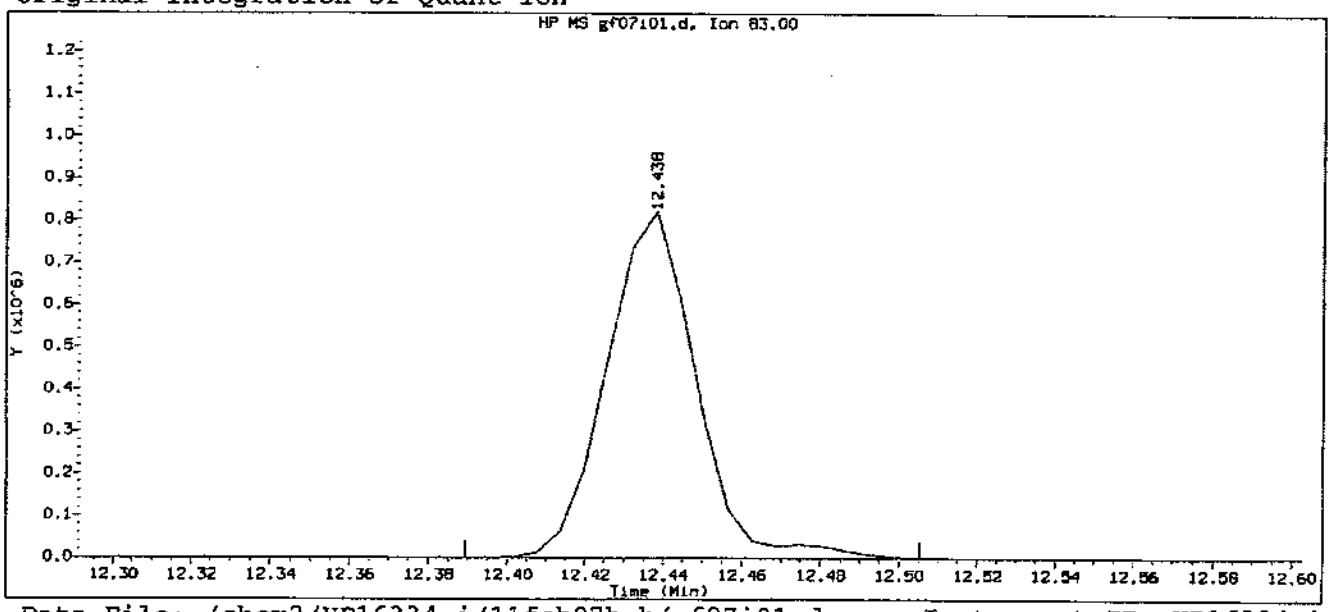
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jm101693

GC/MS audit/management approval: 2/8/11 WAT13 8154

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 14:39
Date, time and analyst ID of latest file update: 07-Feb-2011 14:39 Automation

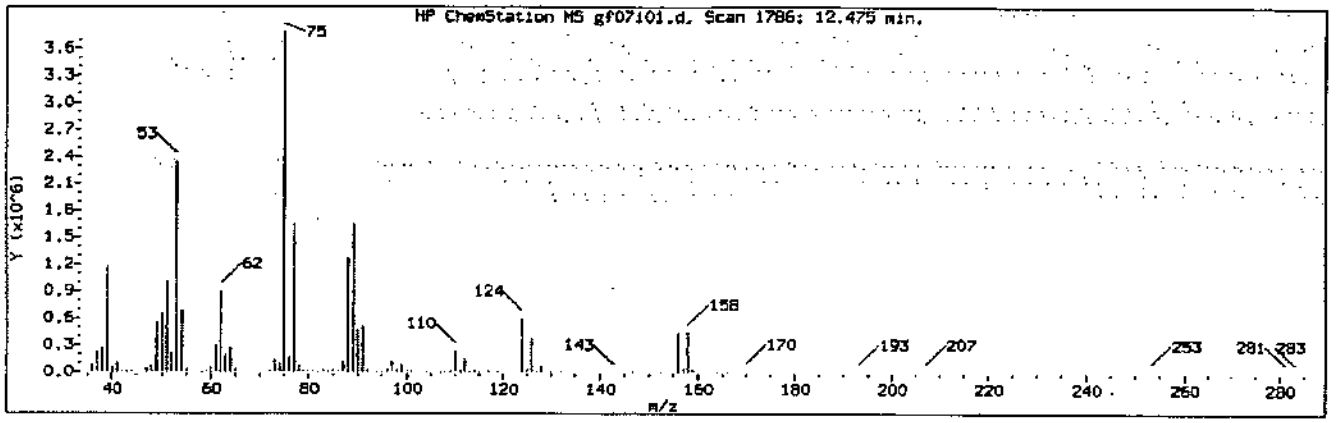
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 1296787
On-column Amount (ng) : 27.1149
Integration start scan : 1771 Integration stop scan: 1790
Y at integration start : 0 Y at integration end: 0

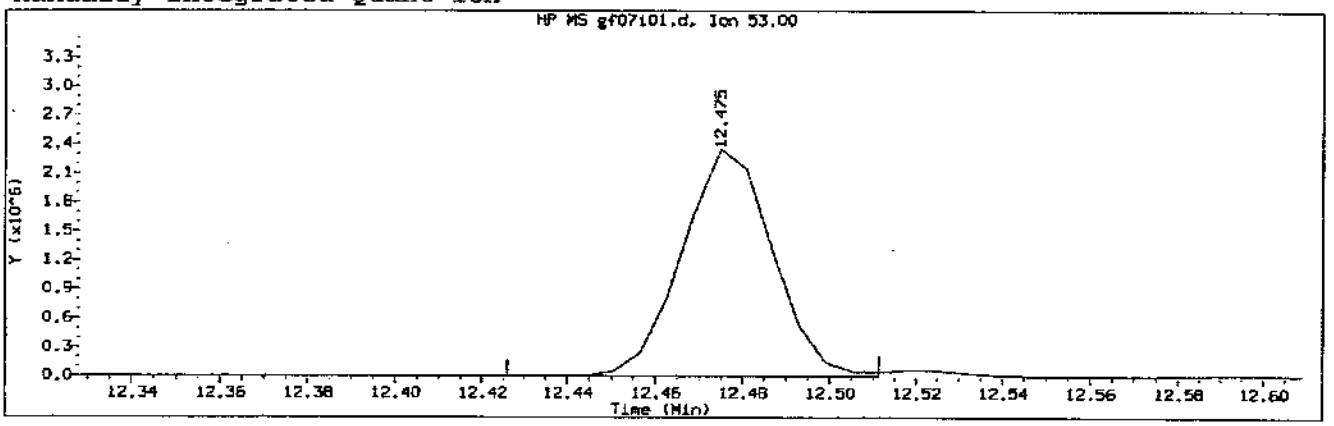
WAT13 8155

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

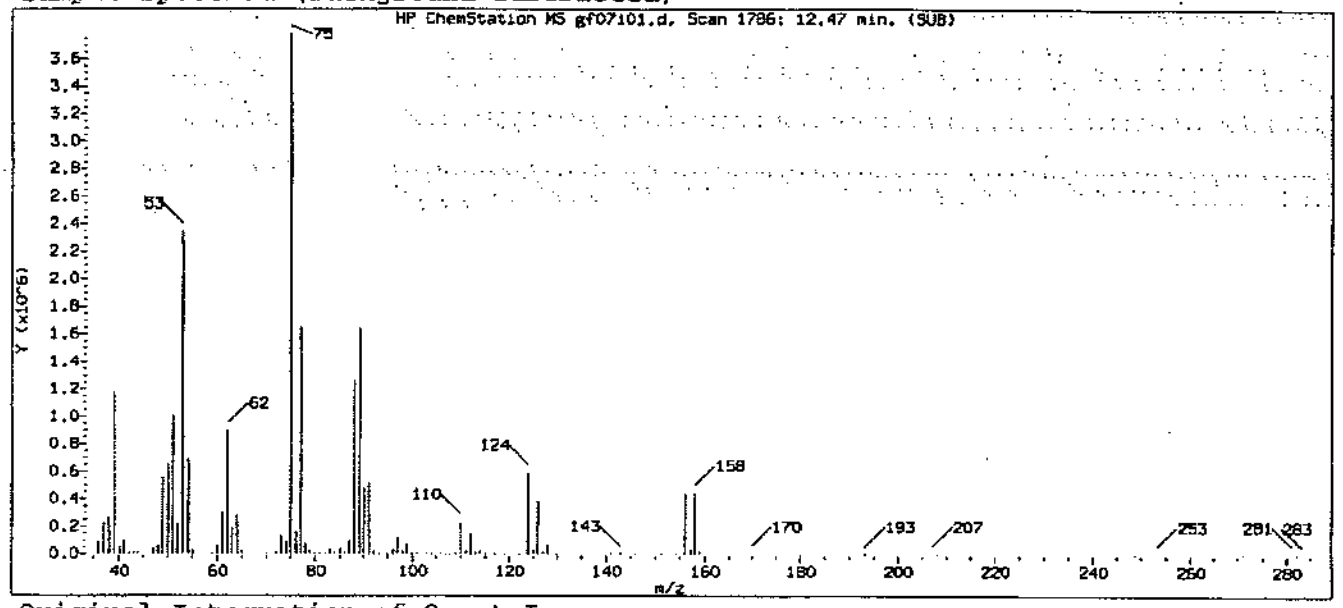
Compound Number : 77
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 53.00
Area (flag) : 3407863M
On-Column Amount (ng) : 276.6647
Integration start scan : 1777 Integration stop scan: 1791
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

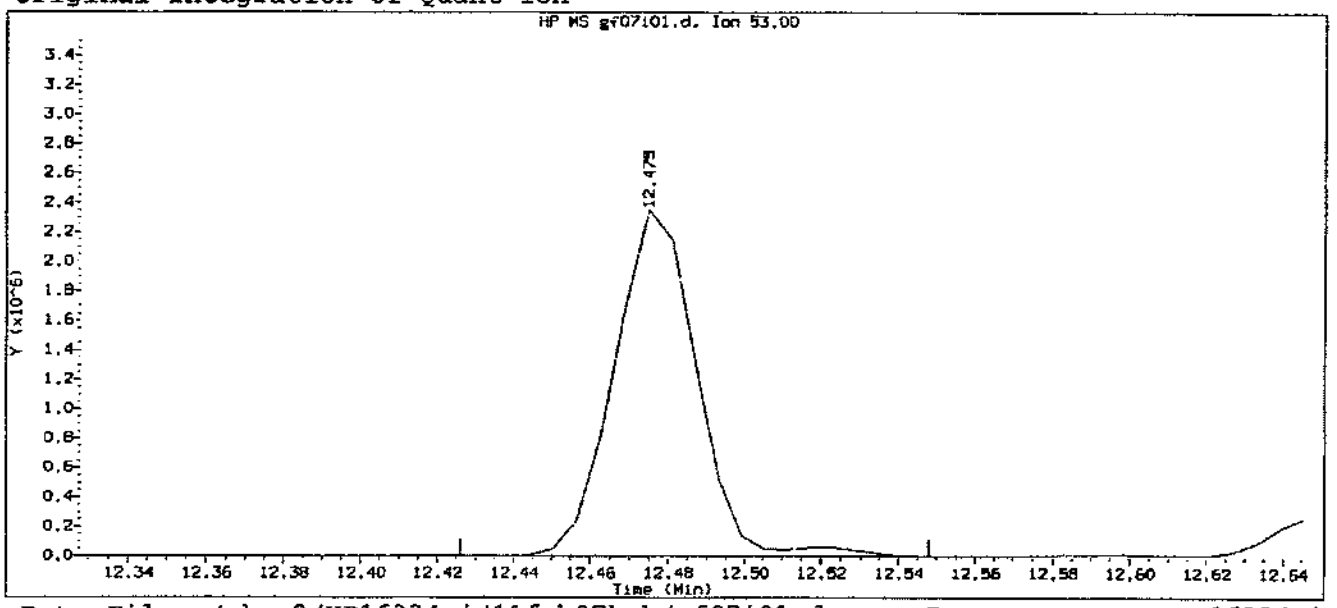
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8156

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 14:39
Date, time and analyst ID of latest file update: 07-Feb-2011 14:39 Automation

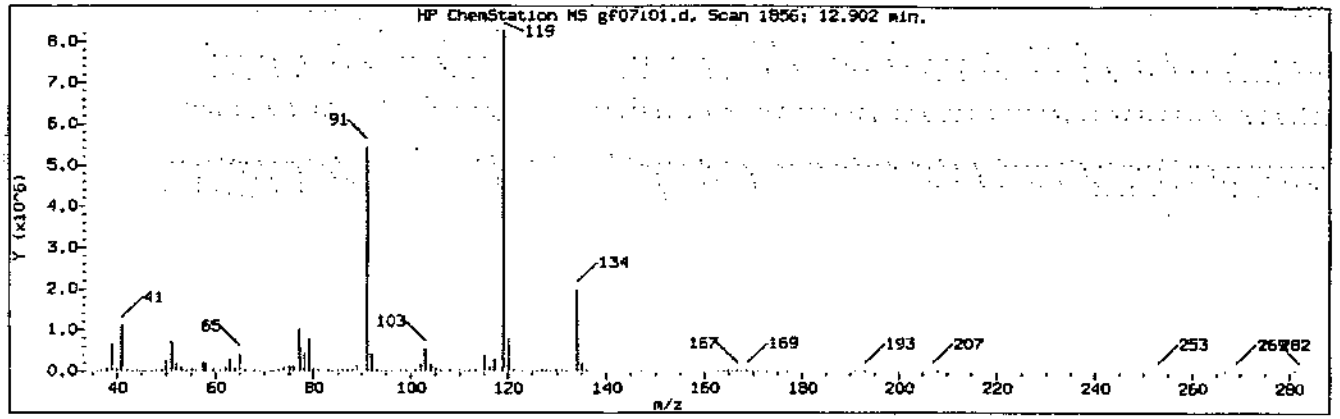
Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 77
Compound Name : trans-1,4-Dichloro-2-Butene
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 53.00
Area : 3472877
On-column Amount (ng) : 314.2986
Integration start scan : 1777 Integration stop scan: 1797
Y at integration start : 0 Y at integration end: 0

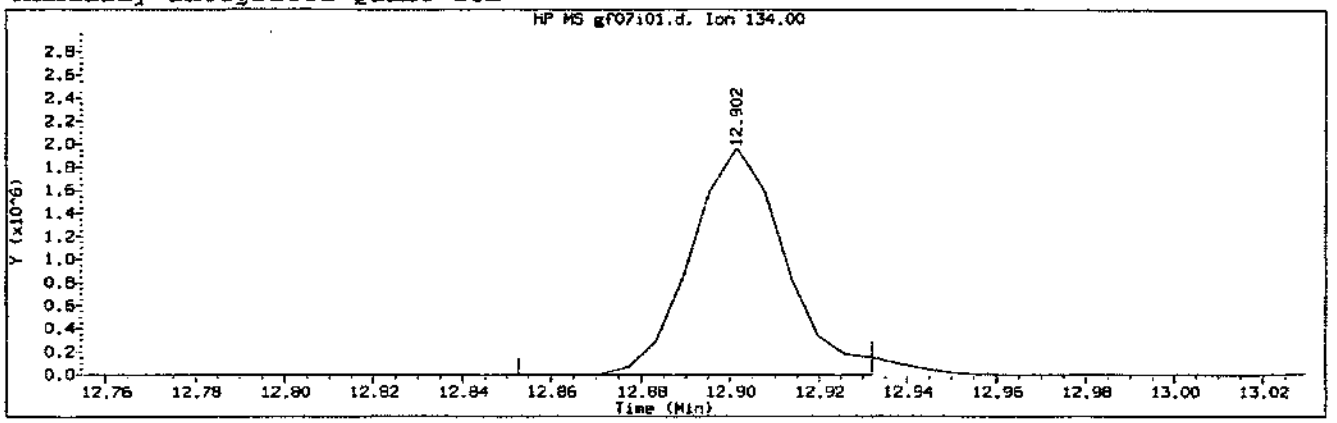
WAT13 0157

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD025 Lab Sample ID: VSTD025

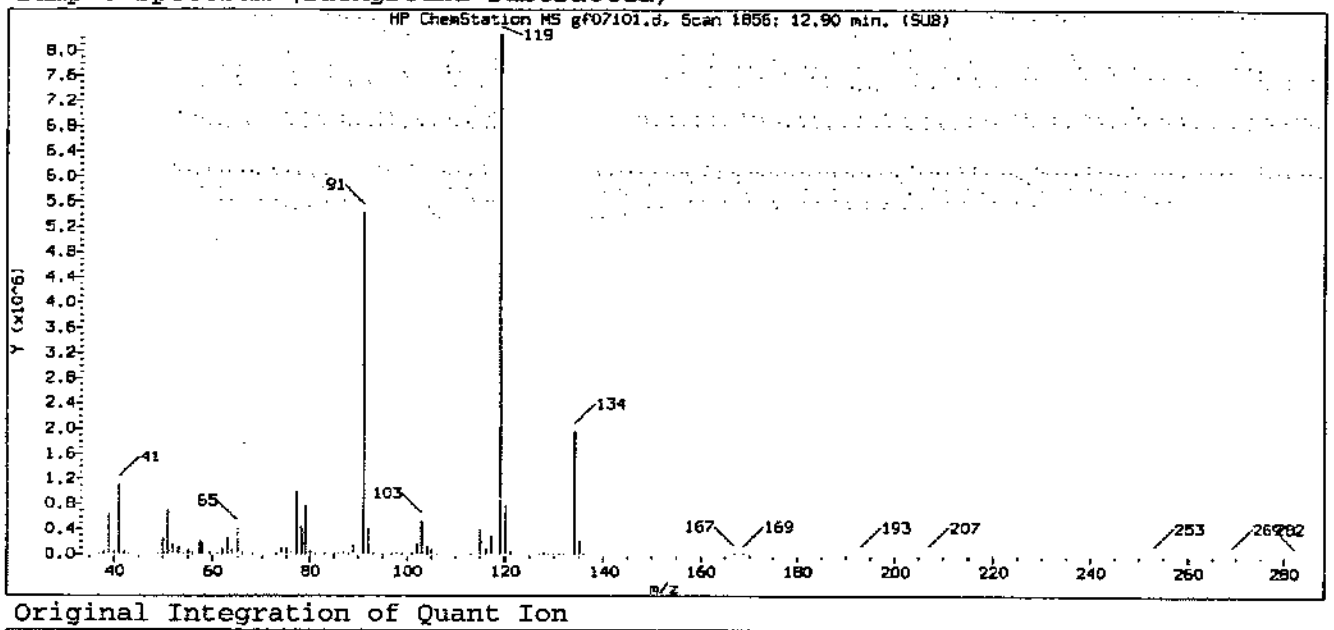
Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area (flag) : 2875992M
On-Column Amount (ng) : 25.7005
Integration start scan : 1847 Integration stop scan: 1860
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

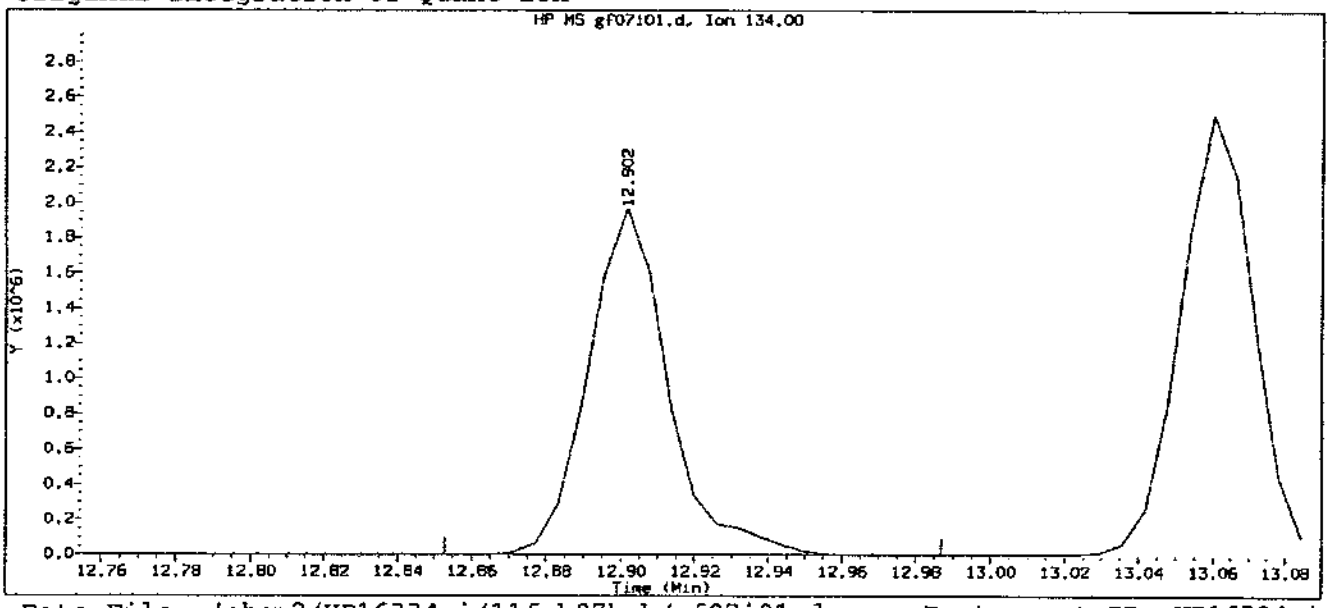
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8158

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i01.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:21 Analyst ID: JML01693

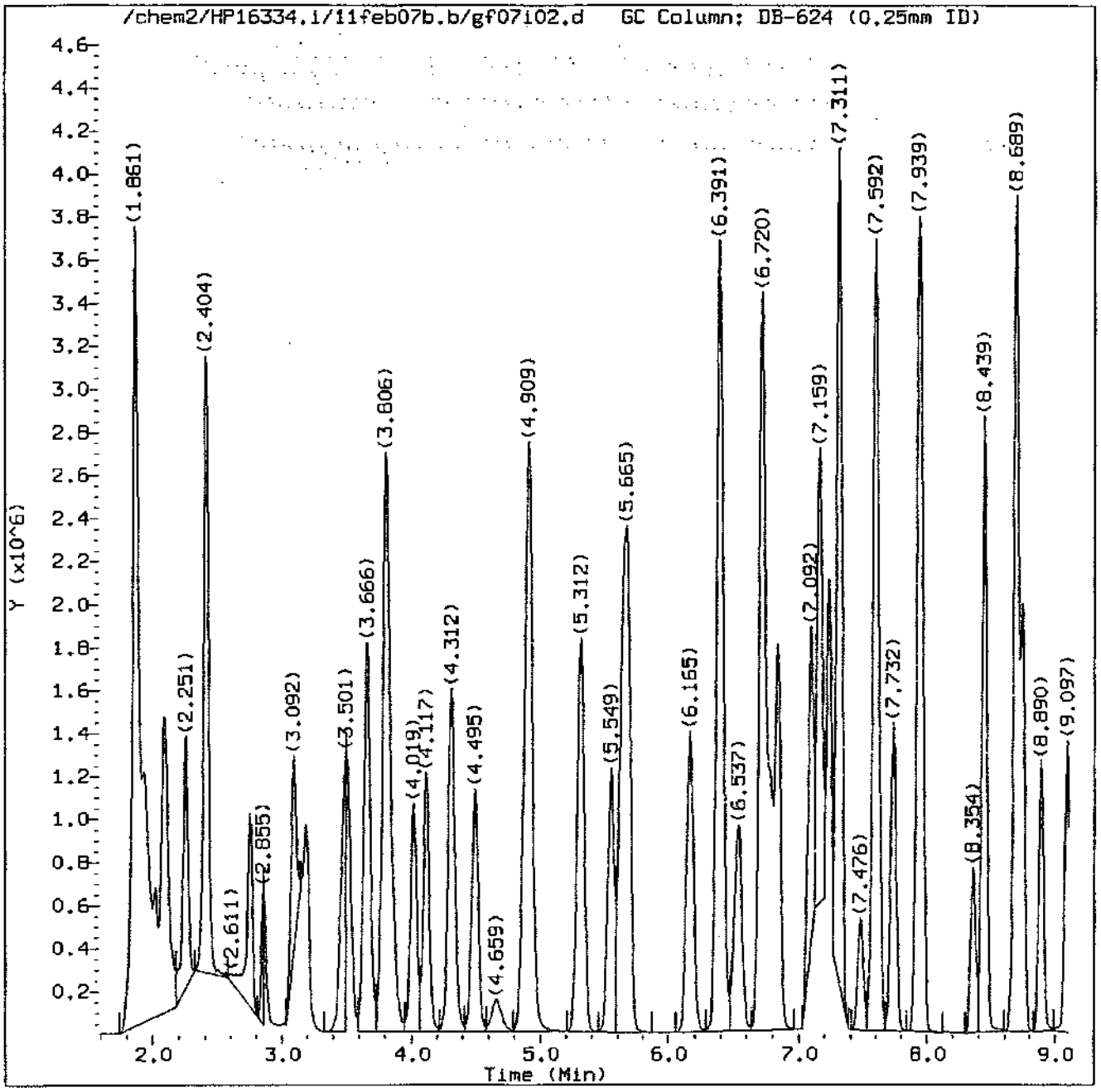
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 14:39
Date, time and analyst ID of latest file update: 07-Feb-2011 14:39 Automation

Sample Name: VSTD025 Lab Sample ID: VSTD025

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 2940018
On-column Amount (ng) : 27.5601
Integration start scan : 1847 Integration stop scan: 1869
Y at integration start : 0 Y at integration end: 0

MAT13 8159

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

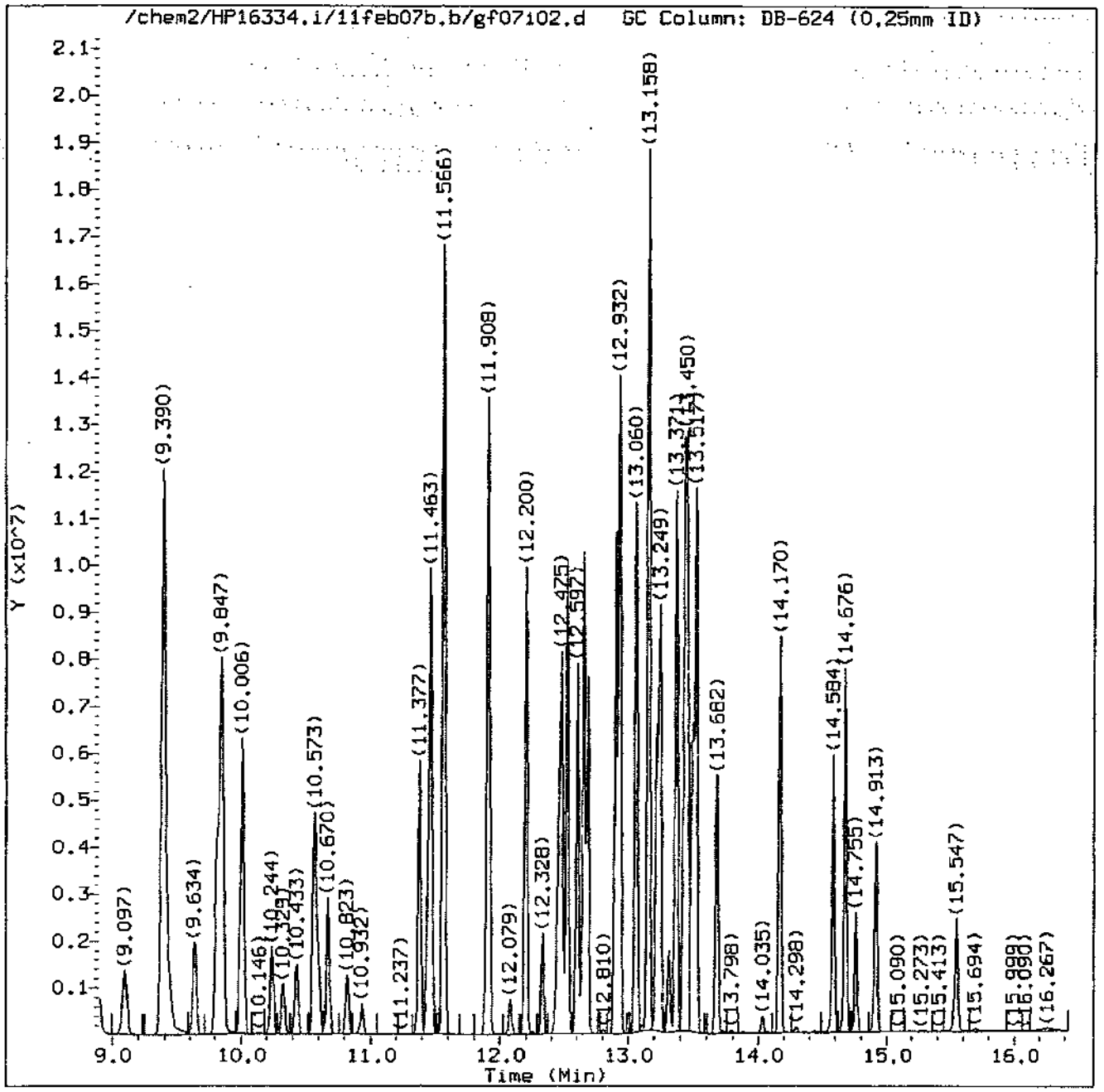
Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 P168



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8161

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.087	85	2010960	10.026
2) Chloromethane	(1)	2.251	50	1620570	9.581
3) Vinyl Chloride	(1)	2.397	62	1519057	9.763
4) Bromomethane	(1)	2.751	94	970131	9.608
5) Chloroethane	(1)	2.855	64	814385	9.593
6) Dichlorofluoromethane	(1)	3.086	67	1961046	9.862
7) Trichlorofluoromethane	(1)	3.190	101	2232159	9.996
8) Ethyl Ether	(1)	3.477	59	482235	9.501
9) Acrolein	(1)	3.659	56	2971460	484.173
10) 1,1-Dichloroethene	(1)	3.800	96	980226	9.719
11) Freon 113	(1)	3.818	101	1103797	10.039
12) Acetone	(1)	3.867	58	221502	94.206
13) Methyl Iodide	(1)	4.019	142	1892145	9.840
14) Carbon Disulfide	(1)	4.117	76	2756711	9.885
15) Allyl Chloride	(1)	4.306	39	1182512	9.577
17) Methylene Chloride	(1)	4.501	84	969119	9.605
18) t-Butyl Alcohol	(1)	4.665	59	478282	190.600
19) Acrylonitrile	(1)	4.885	53	1390621	119.137
21) Methyl Tertiary Butyl Ether	(1)	4.909	73	1493259	9.637
20) trans-1,2-Dichloroethene	(1)	4.915	96	1168135	9.798
22) 1,1-Dichloroethane	(1)	5.549	63	2120324	9.804
24) di-Isopropyl Ether	(1)	5.635	87	811998	9.737
25) Ethyl t-Butyl Ether	(1)	6.165	59	2277263	9.744
26) cis-1,2-Dichloroethene	(1)	6.391	96	1166654	9.753
27) 2,2-Dichloropropane	(1)	6.391	77	1997022	9.937
28) 2-Butanone	(1)	6.409	43	1237398	97.001
29) Propionitrile	(1)	6.513	54	828211	191.262
30) Methyl Acrylate	(1)	6.543	55	1681540	48.385
31) Methacrylonitrile	(1)	6.714	67	1431272	97.242
32) Bromochloromethane	(1)	6.726	128	402752	9.806
33) Tetrahydrofuran	(1)	6.781	71	458012	134.468
34) Chloroform	(1)	6.836	83	2107443	9.813
35) 1,1,1-Trichloroethane	(1)	7.092	97	1991148	10.009
36) 1-Chlorobutane	(1)	7.226	49	112552	10.036
37) Carbon Tetrachloride	(1)	7.311	117	1800660M	10.132
38) 1,1-Dichloropropene	(1)	7.311	75	1743579	9.931
39) Benzene	(1)	7.592	78	4493987	9.839
40) 1,2-Dichloroethane	(1)	7.622	62	985098	9.721

M = Compound was manually integrated.

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8162

Quant Report

Target Revision 3.5

Data File: /cbem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.732	73	1759214	9.746
42)*Fluorobenzene	(1)	7.963	96	1883473	5.000
43) Trichloroethene	(1)	8.439	95	1312401	9.963
44) 1,2-Dichloropropane	(1)	8.738	63	1043467	9.741
45) Methyl Methacrylate	(1)	8.884	69	263496	9.864
46) Dibromomethane	(1)	8.890	93	375918	9.708
47) Bromodichloromethane	(1)	9.097	83	1195791	9.946
48) 2-Nitropropane	(1)	9.390	46	371371	1052.882
49) Chloroacetonitrile	(1)	9.439	75	832967	481.753
50) cis-1,3-Dichloropropene	(1)	9.640	75	1350211	9.969
51) 4-Methyl-2-Pentanone	(1)	9.811	58	1183529	97.622
52) 1,1-Dichloropropanone	(1)	9.847	83	607811	960.360
53) Toluene	(1)	10.006	92	2958891	9.920
55) trans-1,3-Dichloropropene	(1)	10.244	75	1039951	9.895
56) Ethyl Methacrylate	(1)	10.329	69	572454	9.977
57) 1,1,2-Trichloroethane	(1)	10.433	83	429400	9.792
58) Tetrachloroethene	(1)	10.567	166	1571661	9.962
59) 1,3-Dichloropropane	(1)	10.603	76	890268	9.749
60) 2-Hexanone	(1)	10.670	58	1058852	99.613
61) Dibromochloromethane	(1)	10.823	129	674524	10.095
62) 1,2-Dibromoethane	(1)	10.932	107	458759	9.653
64) Chlorobenzene	(1)	11.377	112	3074600	9.906
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	1017443	9.872
66) Ethylbenzene	(1)	11.469	106	1847745	10.029
67) m+p-Xylene	(1)	11.566	106	4512760	19.993
70) Xylene (Total)	(1)		106	6636407	29.856
68) o-Xylene	(1)	11.902	106	2123647	9.863
69) Styrene	(1)	11.914	104	3197621	10.094
71) Bromoform	(1)	12.079	173	349665	9.933
72) Isopropylbenzene	(1)	12.200	120	1616804	10.143
73)$4-Bromofluorobenzene	(1)	12.328	174	562948	4.908
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	476041M	9.671
75) Bromobenzene	(1)	12.457	156	1146267	9.805
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	1239032	99.949
76) 1,2,3-Trichloropropane	(1)	12.475	110	142932M	9.826
78) n-Propylbenzene	(1)	12.524	120	1705470	9.980
79) 2-Chlorotoluene	(1)	12.597	126	1380179	9.916
80) 1,3,5-Trimethylbenzene	(1)	12.646	105	5211519	10.117

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 #163

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.682	126	1369993	9.993
82) tert-Butylbenzene	(1)	12.902	134	1116102M	9.910
84) 1,2,4-Trimethylbenzene	(1)	12.932	105	5338401	10.148
83) Pentachloroethane	(1)	12.932	167	717271	9.875
85) sec-Butylbenzene	(1)	13.060	134	1380859	10.007
87) 1,3-Dichlorobenzene	(1)	13.158	146	2588756	9.749
86) p-Isopropyltoluene	(1)	13.158	119	6162704	10.399
88) 1,4-Dichlorobenzene	(1)	13.225	146	2475564	9.816
89) n-Butylbenzene	(1)	13.450	92	3138001	9.982
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	599024	4.892
91) 1,2-Dichlorobenzene	(1)	13.493	146	2037233	9.706
92) Hexachloroethane	(1)	13.682	201	959244	10.063
93) 1,2-Dibromo-3-Chloropropane	(1)	14.035	157	93104	9.704
94) Nitrobenzene	(1)	14.176	77	387650M	197.823
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	1697209	9.721
96) Hexachlorobutadiene	(1)	14.676	225	1407807	9.984
97) Naphthalene	(1)	14.755	128	1845337	9.769
98) 1,2,3-Trichlorobenzene	(1)	14.919	180	1237277	9.720

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

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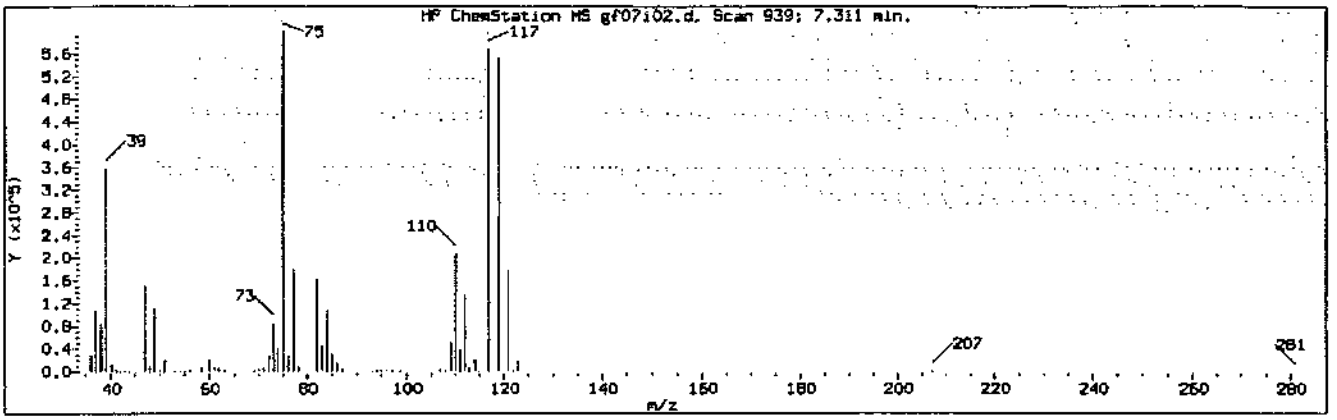
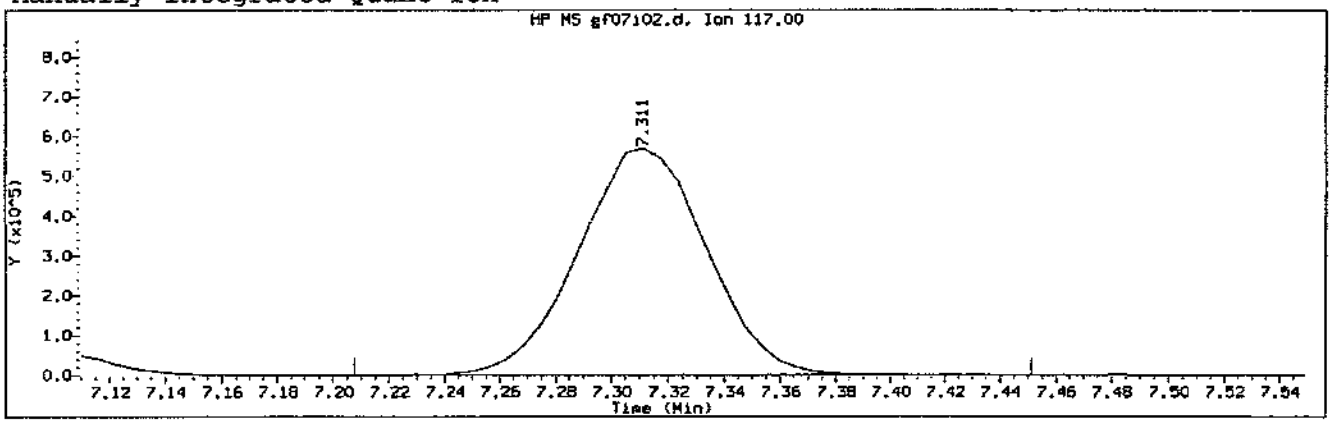
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8164

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

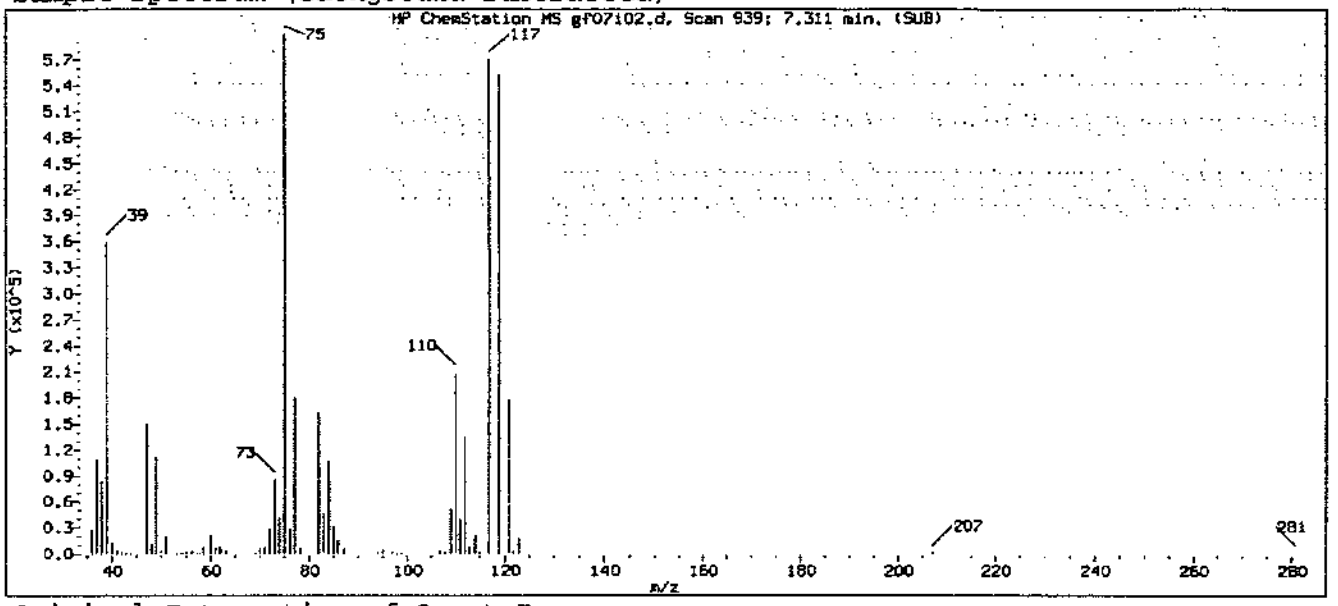
Compound Number : 37
Compound Name : Carbon Tetrachloride
Scan Number : 939
Retention Time (minutes): 7.311
Quant Ion : 117.00
Area (flag) : 1800660M
On-Column Amount (ng) : 10.1322
Integration start scan : 921 Integration stop scan: 961
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

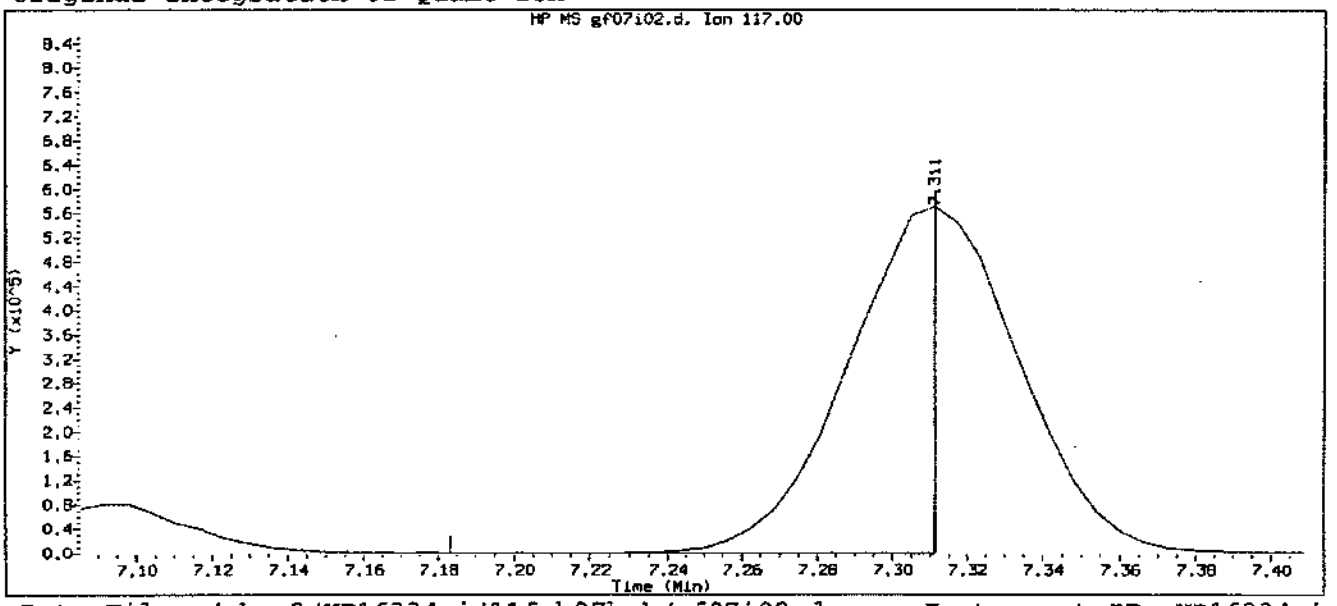
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8165

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:01
Date, time and analyst ID of latest file update: 07-Feb-2011 15:01 Automation

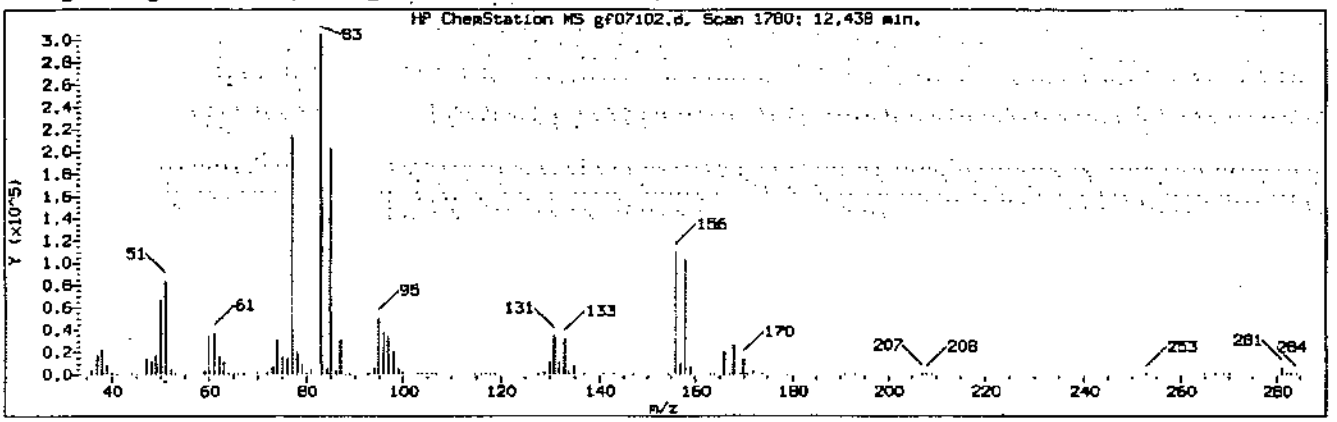
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 37
Compound Name : Carbon Tetrachloride
Scan Number : 939
Retention Time (minutes): 7.311
Quant Ion : 117.00
Area : 898516
On-column Amount (ng) : 5.9080
Integration start scan : 917 Integration stop scan: 938
Y at integration start : 225 Y at integration end: 225

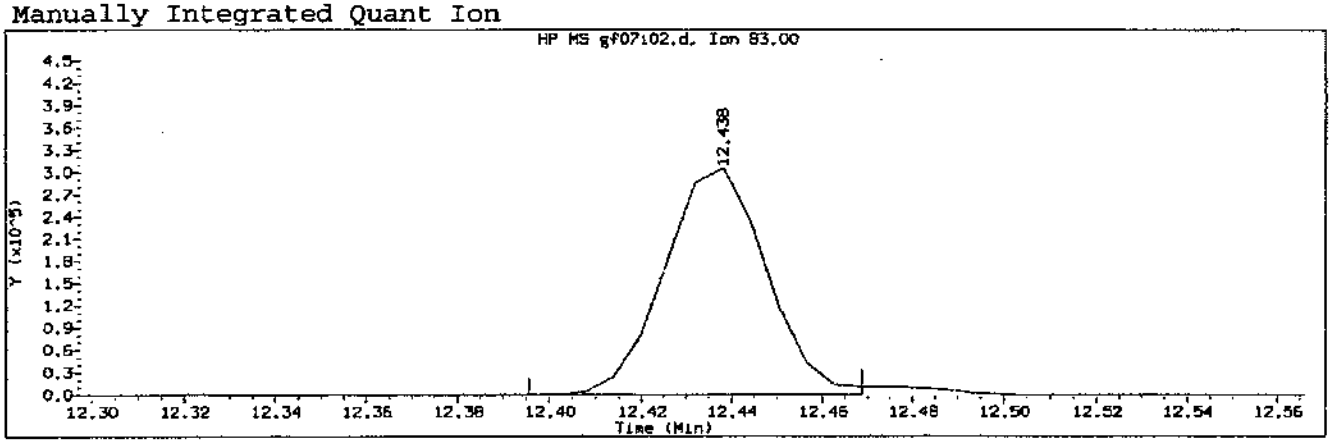
WAT13 8166

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

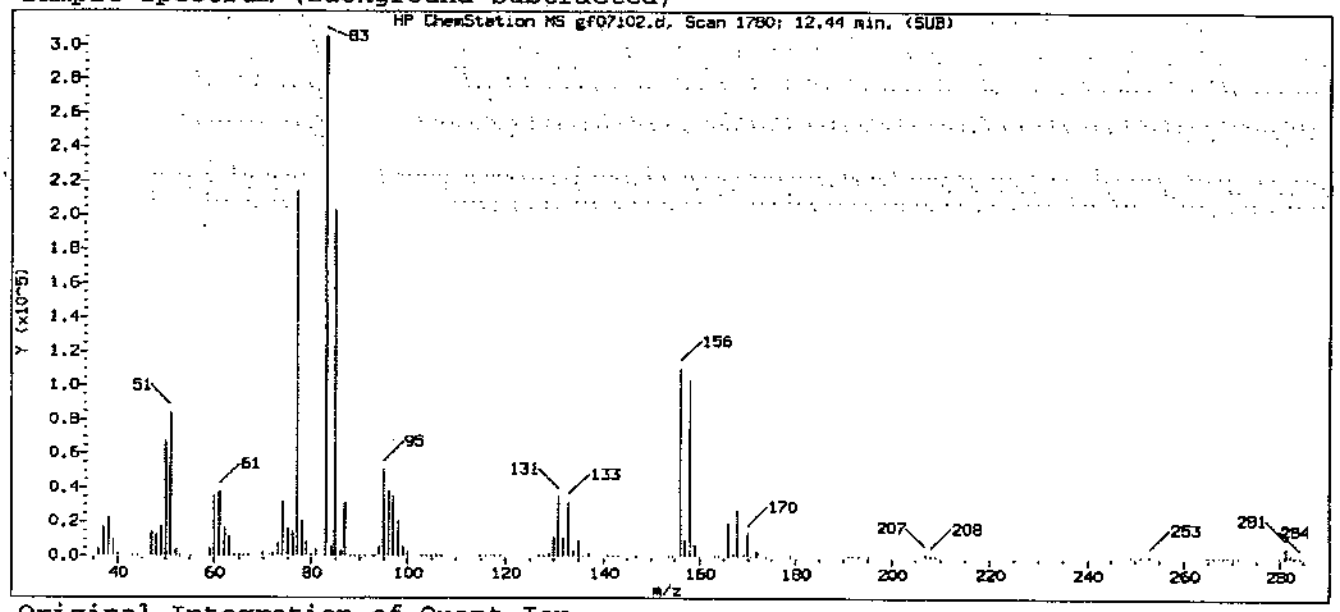
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area (flag) : 476041M
On-Column Amount (ng) : 9.6709
Integration start scan : 1772 Integration stop scan: 1784
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

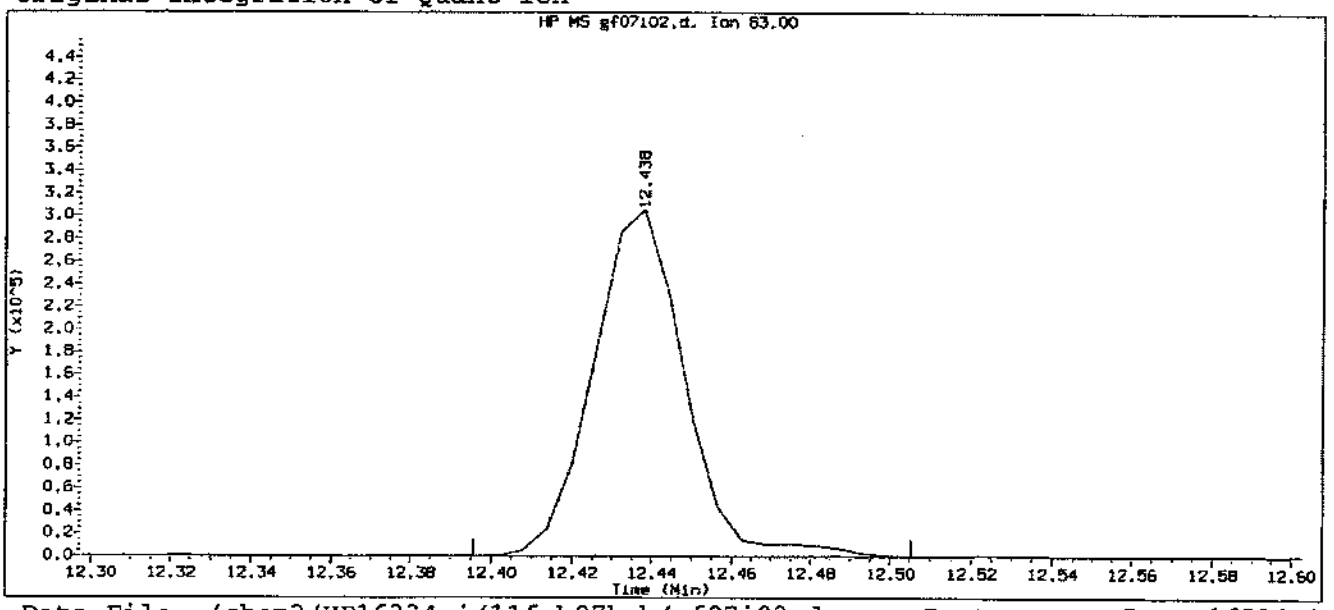
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 5167

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:01
Date, time and analyst ID of latest file update: 07-Feb-2011 15:01 Automation

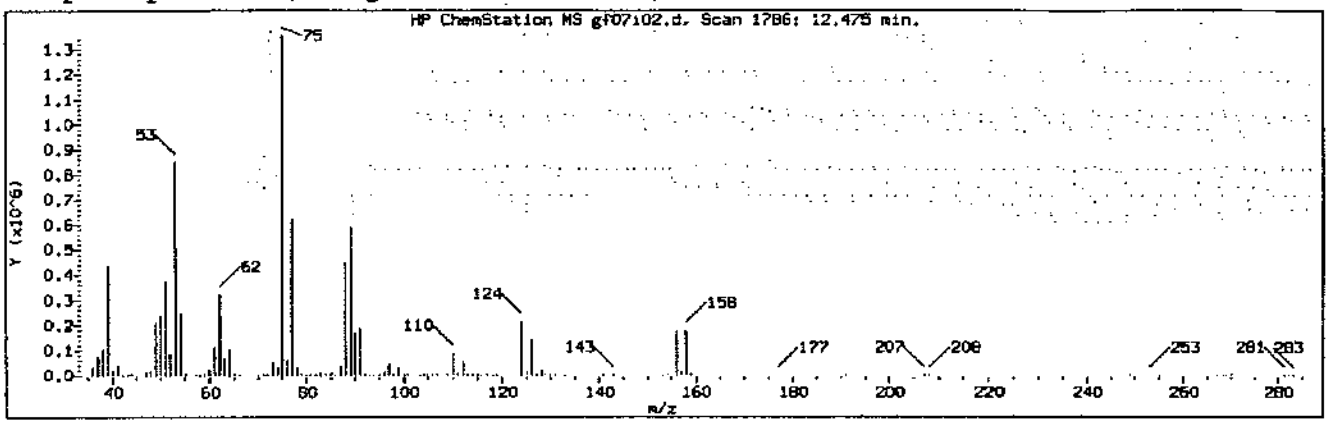
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 487647
On-column Amount (ng) : 9.9866
Integration start scan : 1772 Integration stop scan: 1790
Y at integration start : 0 Y at integration end: 0

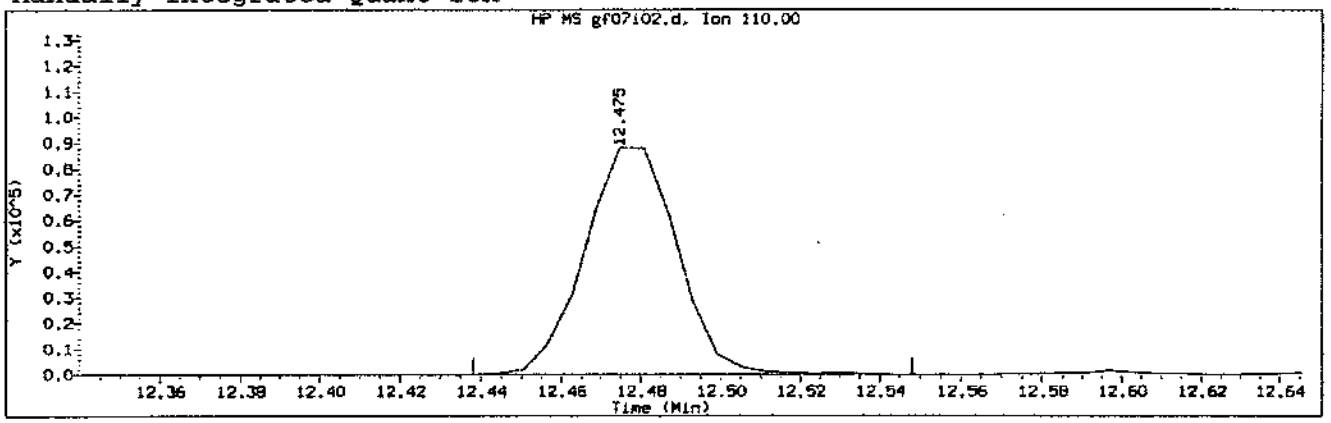
WAT13 8168

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

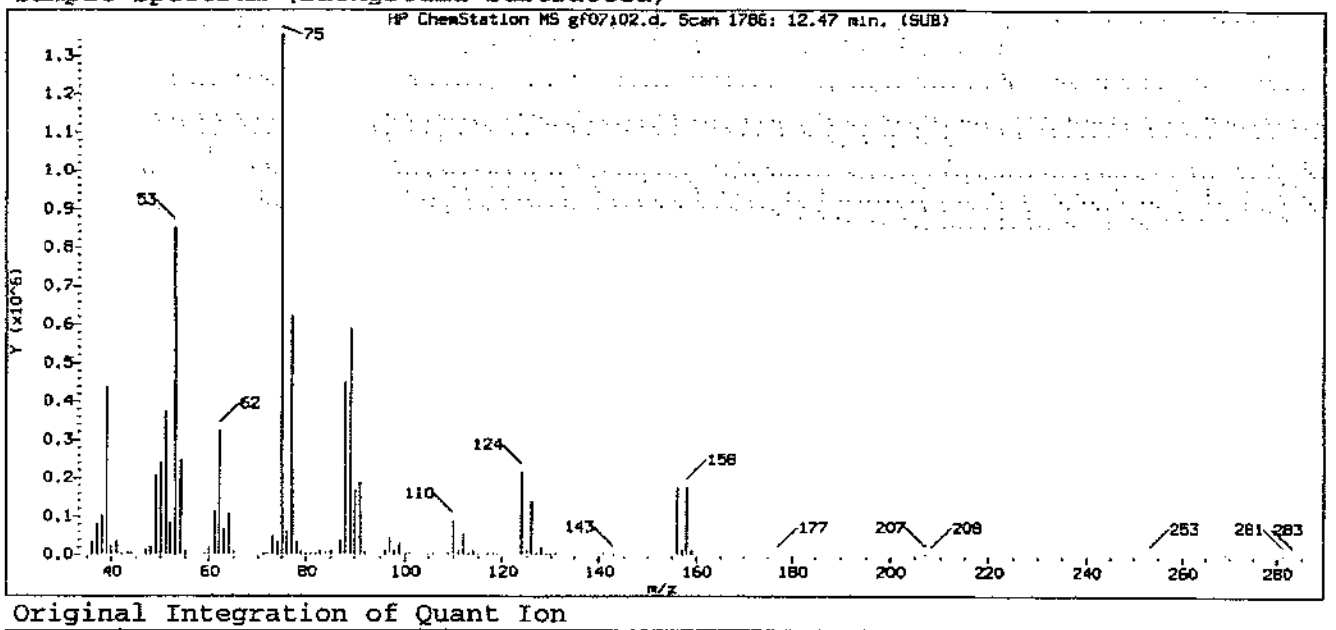
Compound Number : 76
Compound Name : 1,2,3-Trichloropropane
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 110.00
Area (flag) : 142932M
On-Column Amount (ng) : 9.8259
Integration start scan : 1779 Integration stop scan: 1797
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

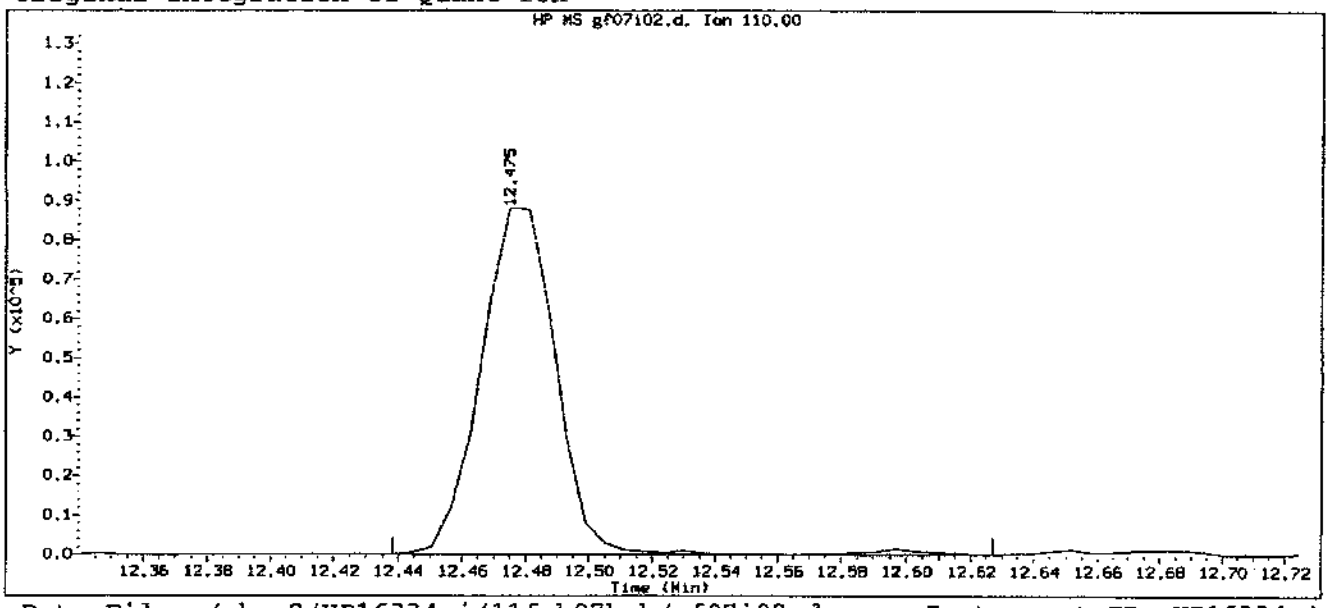
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 6169

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:01
Date, time and analyst ID of latest file update: 07-Feb-2011 15:01 Automation

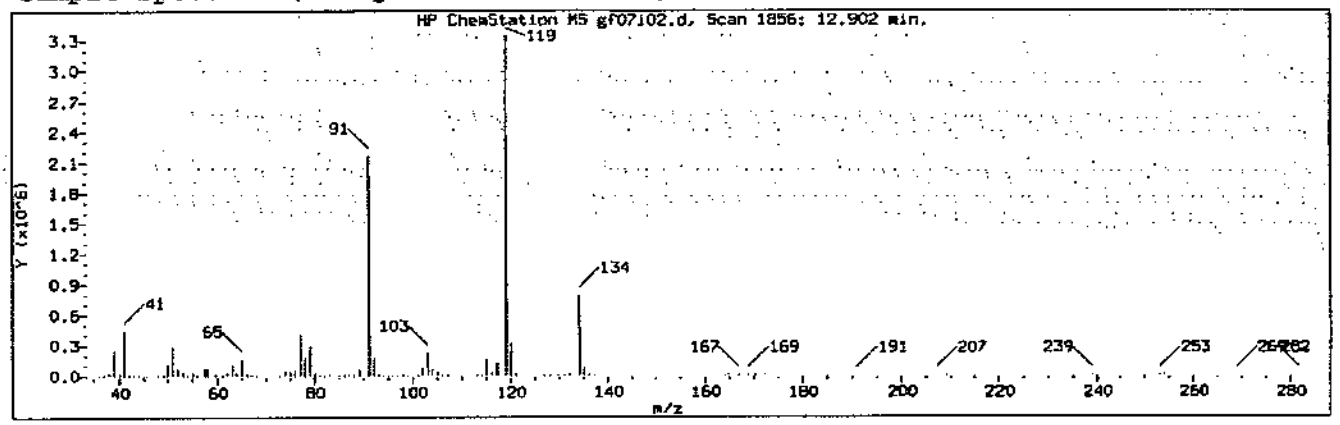
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 76
Compound Name : 1,2,3-Trichloropropane
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 110.00
Area : 144726
On-column Amount (ng) : 10.4735
Integration start scan : 1779 Integration stop scan: 1810
Y at integration start : 0 Y at integration end: 0

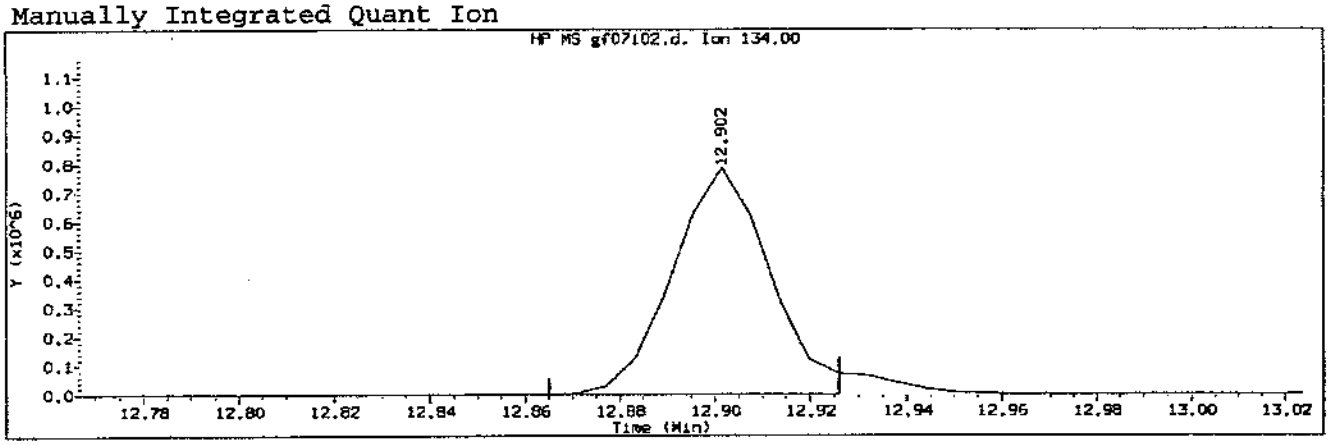
WAT13 8178

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

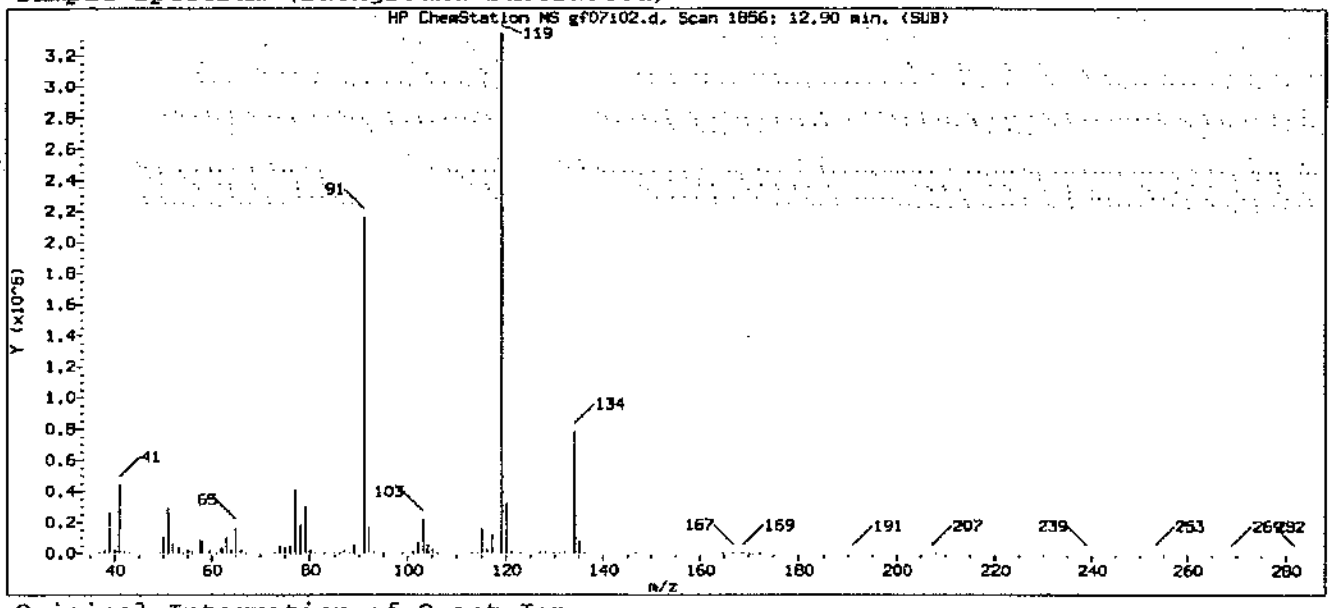
Compound Number	: 82	
Compound Name	: tert-Butylbenzene	
Scan Number	: 1856	
Retention Time (minutes)	: 12.902	
Quant Ion	: 134.00	
Area (flag)	: 1116102M	
On-Column Amount (ng)	: 9.9102	
Integration start scan	: 1849	Integration stop scan: 1859
Y at integration start	: 0	Y at integration end: 0

Reason for manual integration: improper integration

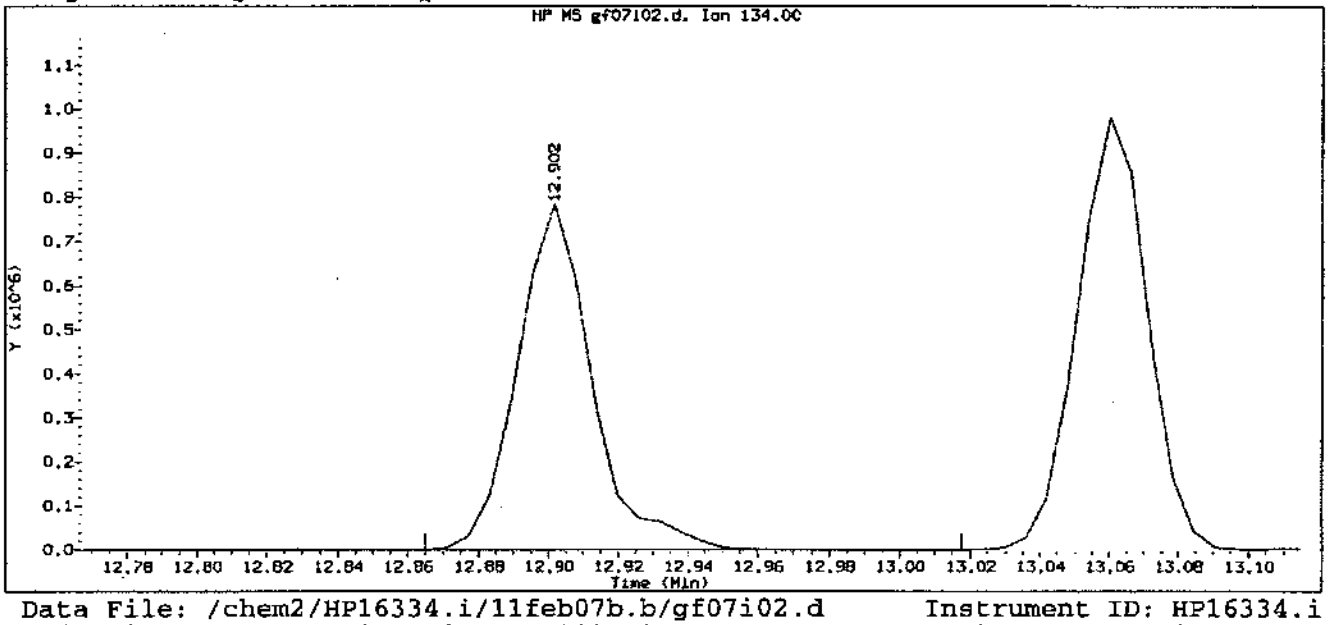
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8171

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:01
Date, time and analyst ID of latest file update: 07-Feb-2011 15:01 Automation

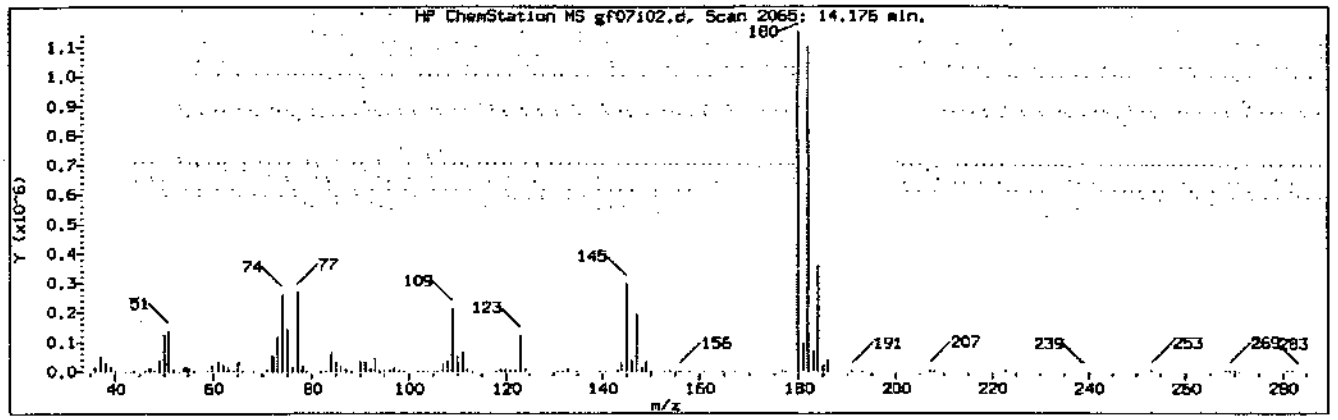
Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 1164760
On-column Amount (ng) : 10.4872
Integration start scan : 1849 Integration stop scan: 1874
Y at integration start : 0 Y at integration end: 0

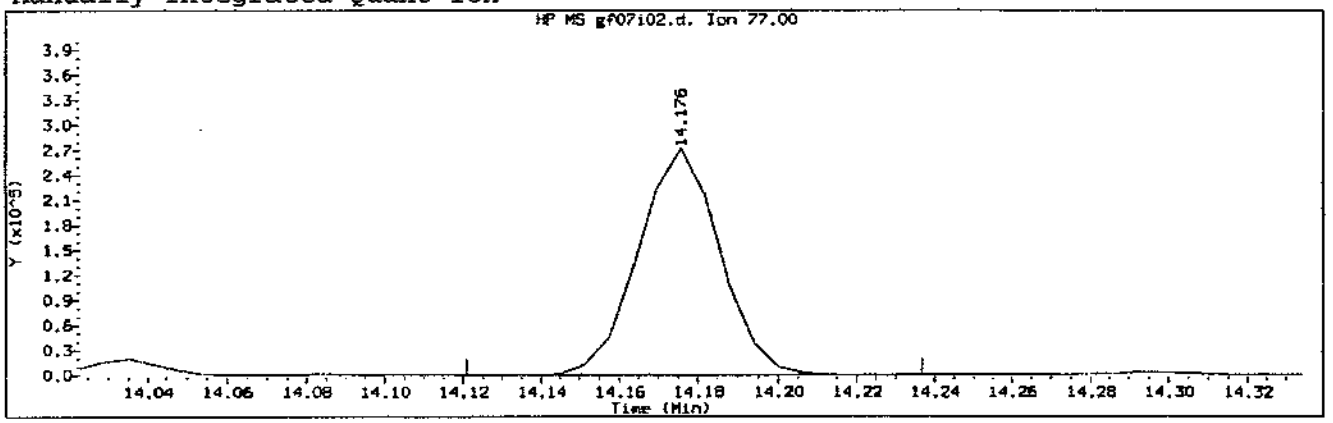
WAT13 8172

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

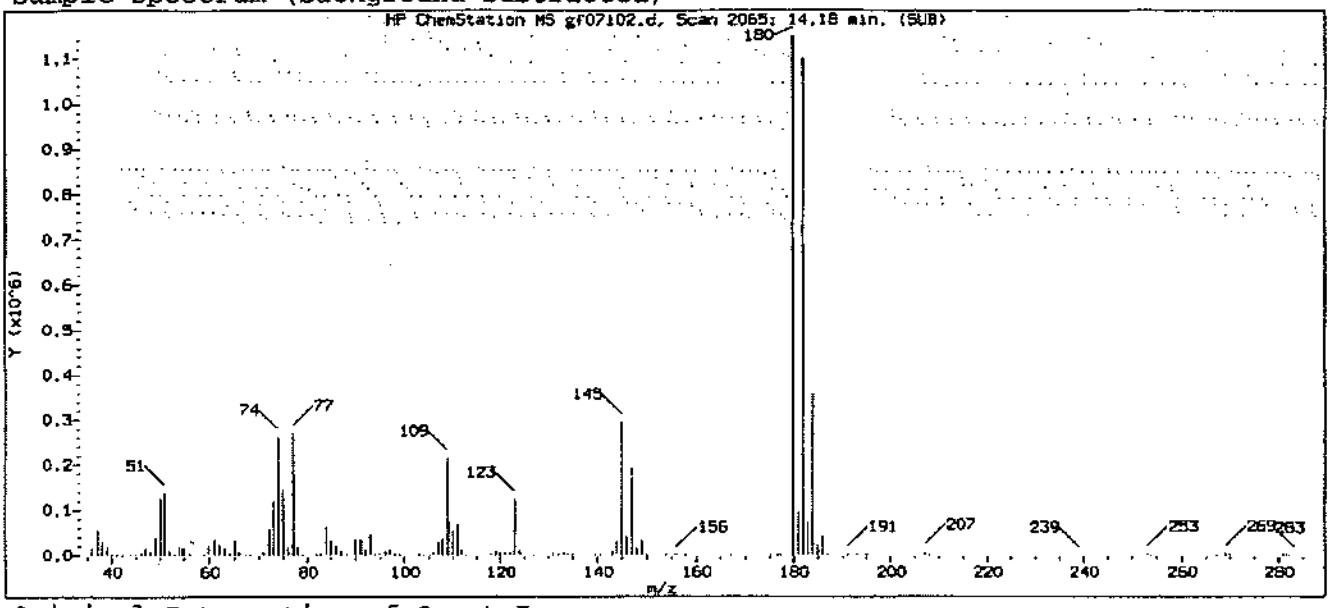
Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area (flag) : 387650M
On-Column Amount (ng) : 197.8230
Integration start scan : 2055 Integration stop scan: 2074
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

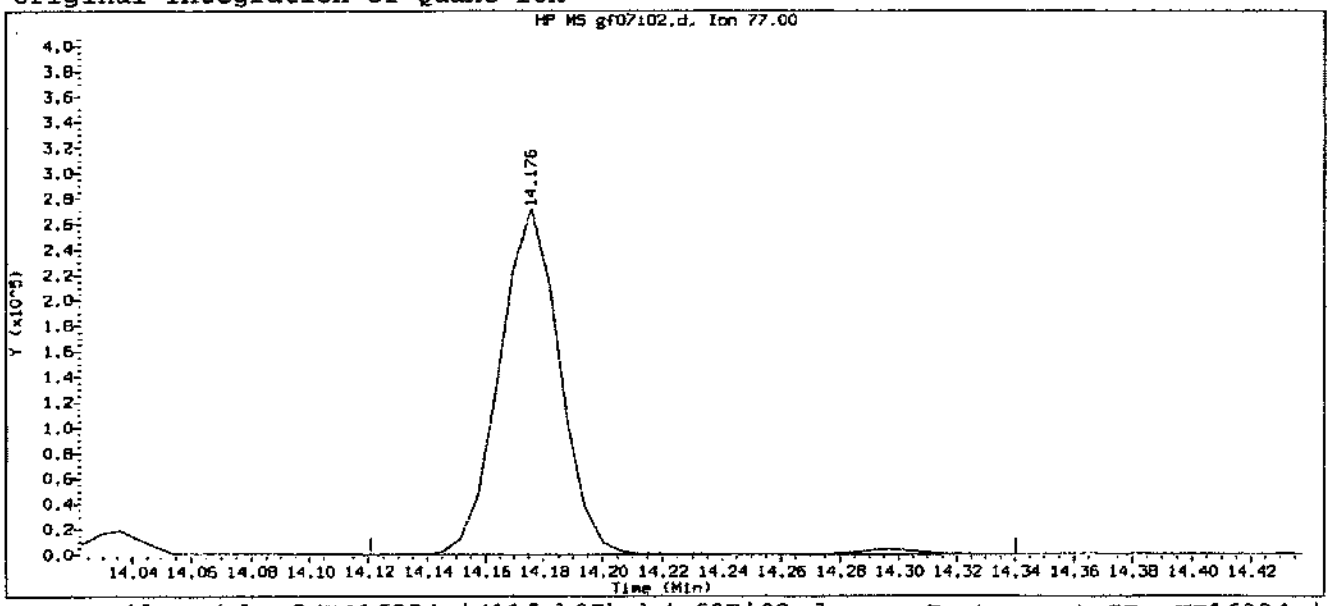
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 0173

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i02.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 14:43 Analyst ID: JML01693

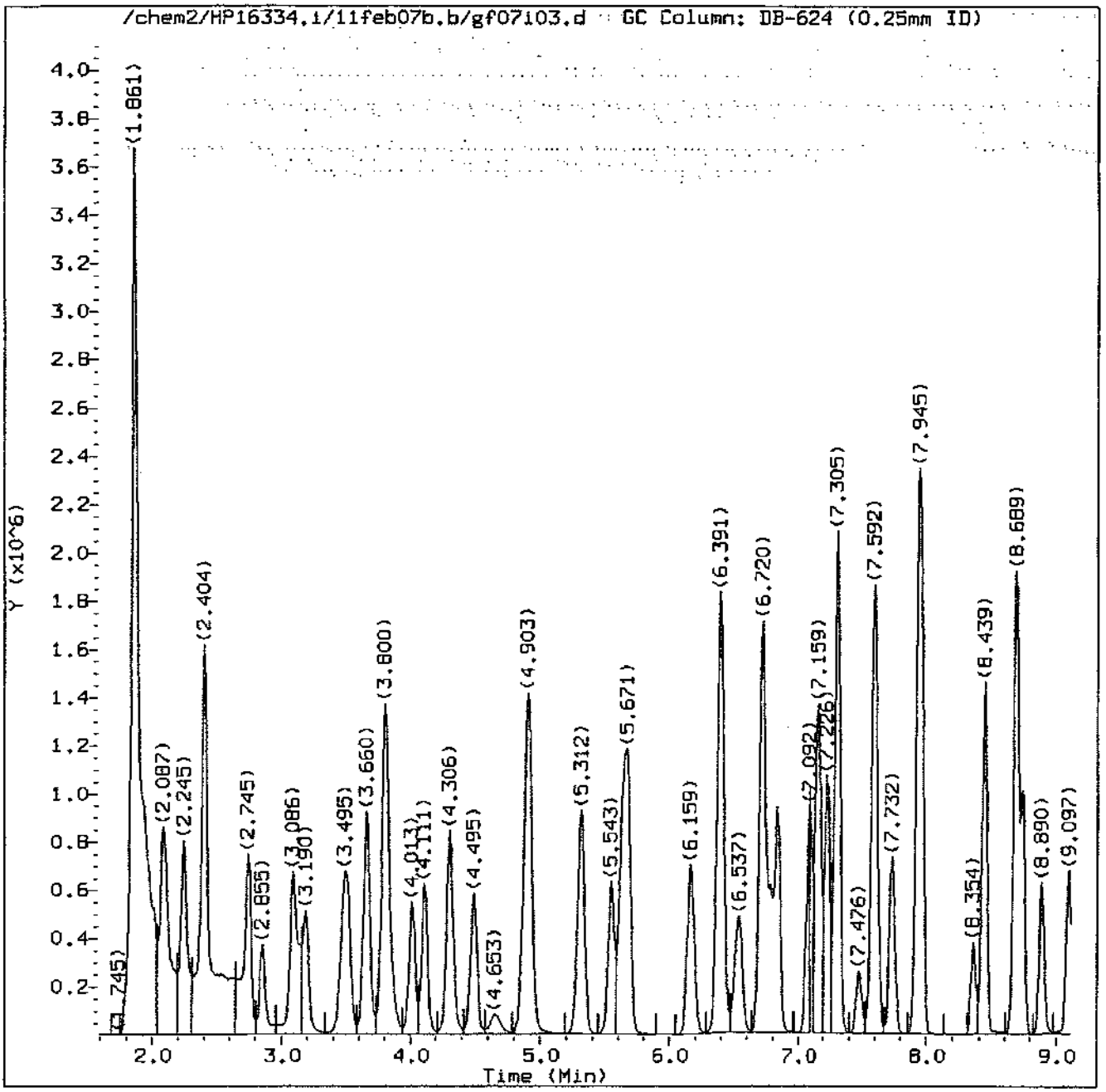
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:01
Date, time and analyst ID of latest file update: 07-Feb-2011 15:01 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area : 395520
On-column Amount (ng) : 275.5379
Integration start scan : 2055 Integration stop scan: 2091
Y at integration start : 0 Y at integration end: 0

WAT13 8174

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

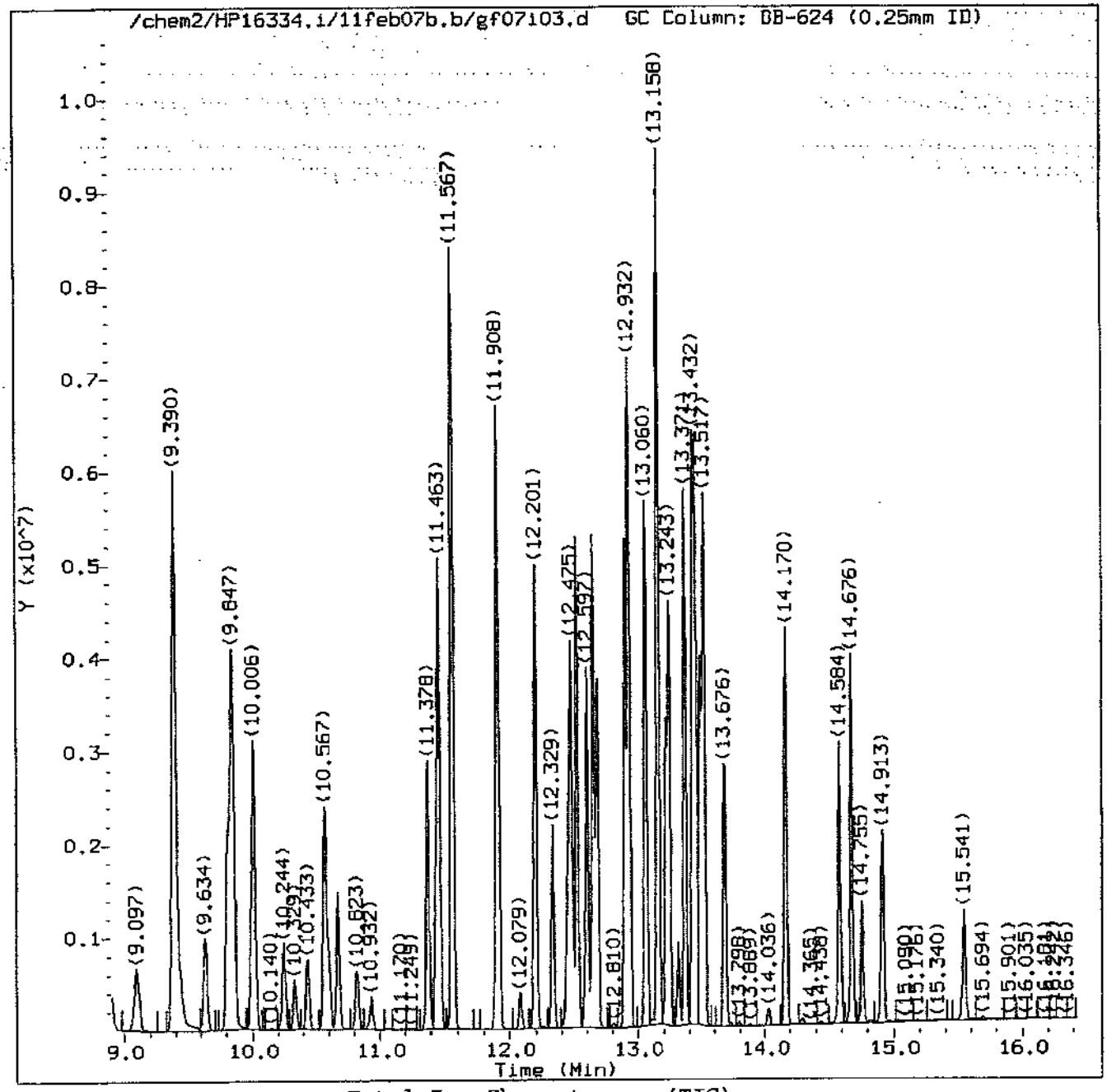
Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jm101693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8175



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 9176

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.087	85	1021265	5.026
2) Chloromethane	(1)	2.245	50	834855	4.872
3) Vinyl Chloride	(1)	2.391	62	778921	4.941
4) Bromomethane	(1)	2.745	94	504572	4.933
5) Chloroethane	(1)	2.855	64	425007	4.942
6) Dichlorofluoromethane	(1)	3.086	67	974957	4.840
7) Trichlorofluoromethane	(1)	3.190	101	1094217	4.837
8) Ethyl Ether	(1)	3.471	59	244836	4.761
9) Acrolein	(1)	3.660	56	1524952	245.271
10) 1,1-Dichloroethene	(1)	3.800	96	502340	4.917
11) Freon 113	(1)	3.818	101	557648	5.006
12) Acetone	(1)	3.873	58	110010	46.184
13) Methyl Iodide	(1)	4.013	142	970984	4.984
14) Carbon Disulfide	(1)	4.111	76	1444778	5.114
15) Allyl Chloride	(1)	4.306	39	607622	4.857
17) Methylene Chloride	(1)	4.495	84	494069	4.833
18) t-Butyl Alcohol	(1)	4.665	59	242267	95.300
19) Acrylonitrile	(1)	4.879	53	709043	59.961
20) trans-1,2-Dichloroethene	(1)	4.909	96	601849	4.983
21) Methyl Tertiary Butyl Ether	(1)	4.909	73	775964	4.943
22) 1,1-Dichloroethane	(1)	5.543	63	1080600	4.932
24) di-Isopropyl Ether	(1)	5.635	87	416185	4.926
25) Ethyl t-Butyl Ether	(1)	6.165	59	1158090	4.892
26) cis-1,2-Dichloroethene	(1)	6.391	96	603012	4.976
27) 2,2-Dichloropropane	(1)	6.391	77	1013314	4.977
28) 2-Butanone	(1)	6.409	43	625847	48.428
29) Propionitrile	(1)	6.513	54	425329	96.956
30) Methyl Acrylate	(1)	6.537	55	859143	24.402
31) Methacrylonitrile	(1)	6.720	67	723845	48.544
32) Bromochloromethane	(1)	6.726	128	202939	4.877
33) Tetrahydrofuran	(1)	6.781	71	238729	69.184
34) Chloroform	(1)	6.836	83	1089512	5.008
35) 1,1,1-Trichloroethane	(1)	7.086	97	1001059	4.967
36) 1-Chlorobutane	(1)	7.220	49	54183	4.769
38) 1,1-Dichloropropene	(1)	7.305	75	885412	4.978
37) Carbon Tetrachloride	(1)	7.311	117	911781	5.064
39) Benzene	(1)	7.592	78	2295069	4.960
40) 1,2-Dichloroethane	(1)	7.616	62	510449	4.972

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on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 0177

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.732	73	886481	4.848
42)*Fluorobenzene	(1)	7.964	96	1908091	5.000
43) Trichloroethene	(1)	8.439	95	661623	4.958
44) 1,2-Dichloropropane	(1)	8.744	63	538681	4.964
45) Methyl Methacrylate	(1)	8.884	69	131845	4.872
46) Dibromomethane	(1)	8.890	93	192706	4.912
47) Bromodichloromethane	(1)	9.091	83	600687	4.932
48) 2-Nitropropane	(1)	9.390	46	183927	514.727
49) Chloroacetonitrile	(1)	9.439	75	419498	239.490
50) cis-1,3-Dichloropropene	(1)	9.634	75	685297	4.994
51) 4-Methyl-2-Pentanone	(1)	9.811	58	600949	48.929
52) 1,1-Dichloropropanone	(1)	9.847	83	307746	479.975
53) Toluene	(1)	10.006	92	1499268	4.962
55) trans-1,3-Dichloropropene	(1)	10.244	75	527057	4.950
56) Ethyl Methacrylate	(1)	10.329	69	281604	4.845
57) 1,1,2-Trichloroethane	(1)	10.433	83	214333	4.824
58) Tetrachloroethene	(1)	10.567	166	780995	4.886
59) 1,3-Dichloropropane	(1)	10.597	76	451903	4.885
60) 2-Hexanone	(1)	10.670	58	531102	49.320
61) Dibromochloromethane	(1)	10.823	129	337680	4.989
62) 1,2-Dibromoethane	(1)	10.932	107	234055	4.861
64) Chlorobenzene	(1)	11.378	112	1543617	4.909
65) 1,1,1,2-Tetrachloroethane	(1)	11.445	131	520217	4.982
66) Ethylbenzene	(1)	11.463	106	934295	5.006
67) m+p-Xylene	(1)	11.567	106	2278690	9.965
70) Xylene (Total)	(1)		106	3353853	14.894
68) o-Xylene	(1)	11.902	106	1075163	4.929
69) Styrene	(1)	11.914	104	1592756	4.963
71) Bromoform	(1)	12.085	173	179569	5.035
72) Isopropylbenzene	(1)	12.201	120	803874	4.978
73)$4-Bromofluorobenzene	(1)	12.329	174	573693	4.937
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	245089M	4.915
75) Bromobenzene	(1)	12.457	156	587144	4.957
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	618035	49.212
76) 1,2,3-Trichloropropane	(1)	12.475	110	70454M	4.781
78) n-Propylbenzene	(1)	12.518	120	857168	4.951
79) 2-Chlorotoluene	(1)	12.603	126	698022	4.950
80) 1,3,5-Trimethylbenzene	(1)	12.646	105	2615842	5.013

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 0178

Digitally signed by Jason M. Long
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.682	126	698990	5.033
82) tert-Butylbenzene	(1)	12.902	134	579136M	5.076
84) 1,2,4-Trimethylbenzene	(1)	12.932	105	2676579	5.023
83) Pentachloroethane	(1)	12.932	167	357577	4.859
85) sec-Butylbenzene	(1)	13.060	134	697798	4.992
87) 1,3-Dichlorobenzene	(1)	13.158	146	1326520	4.931
86) p-Isopropyltoluene	(1)	13.158	119	3087666	5.143
88) 1,4-Dichlorobenzene	(1)	13.219	146	1265390	4.953
89) n-Butylbenzene	(1)	13.450	92	1591087	4.996
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	612112	4.935
91) 1,2-Dichlorobenzene	(1)	13.493	146	1034925	4.867
92) Hexachloroethane	(1)	13.682	201	484338	5.016
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036	157	46803	4.815
94) Nitrobenzene	(1)	14.176	77	184185M	92.779
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	861693	4.872
96) Hexachlorobutadiene	(1)	14.676	225	703490	4.924
97) Naphthalene	(1)	14.761	128	934572	4.884
98) 1,2,3-Trichlorobenzene	(1)	14.913	180	625708	4.852

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

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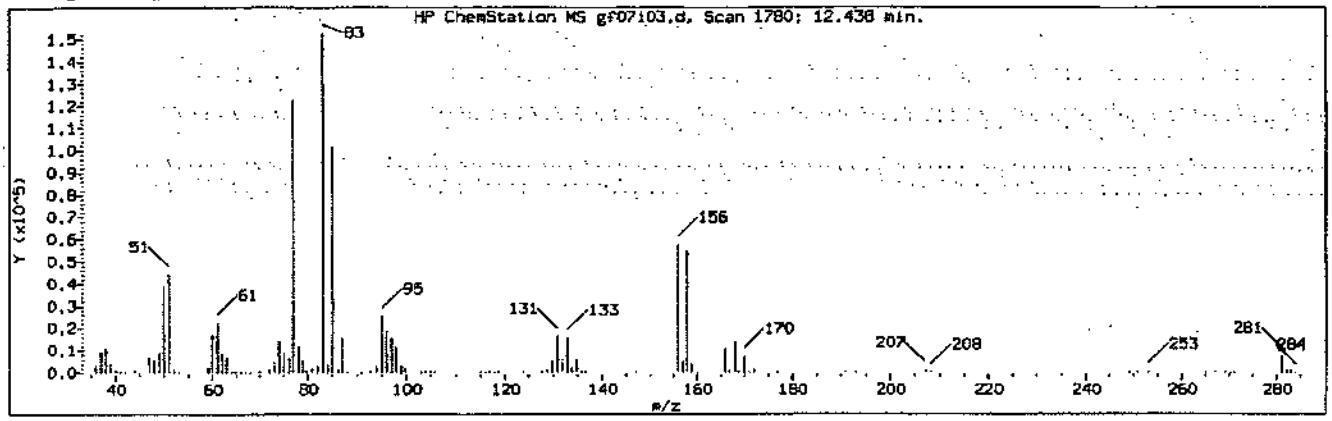
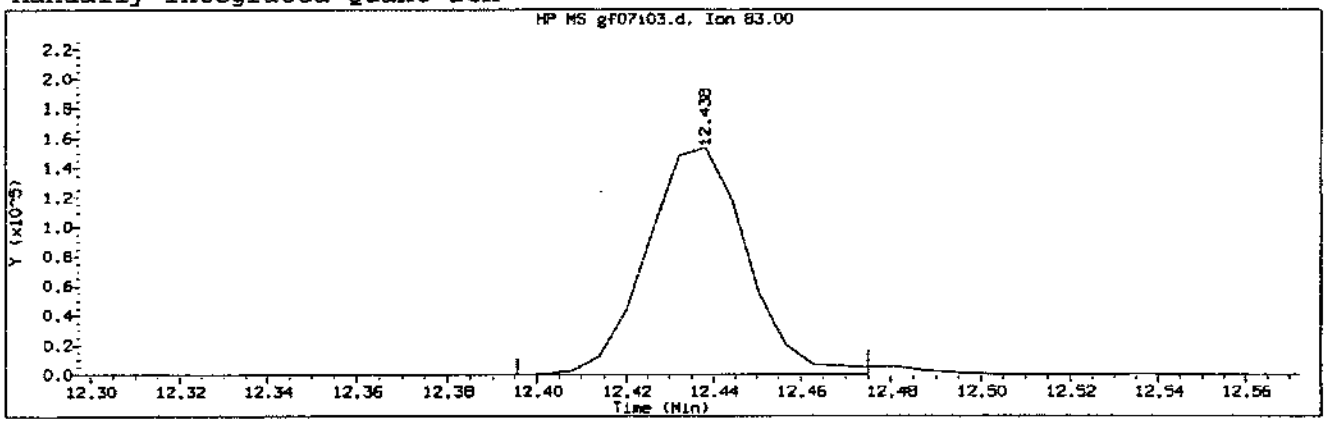
on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

WAT13 8179

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

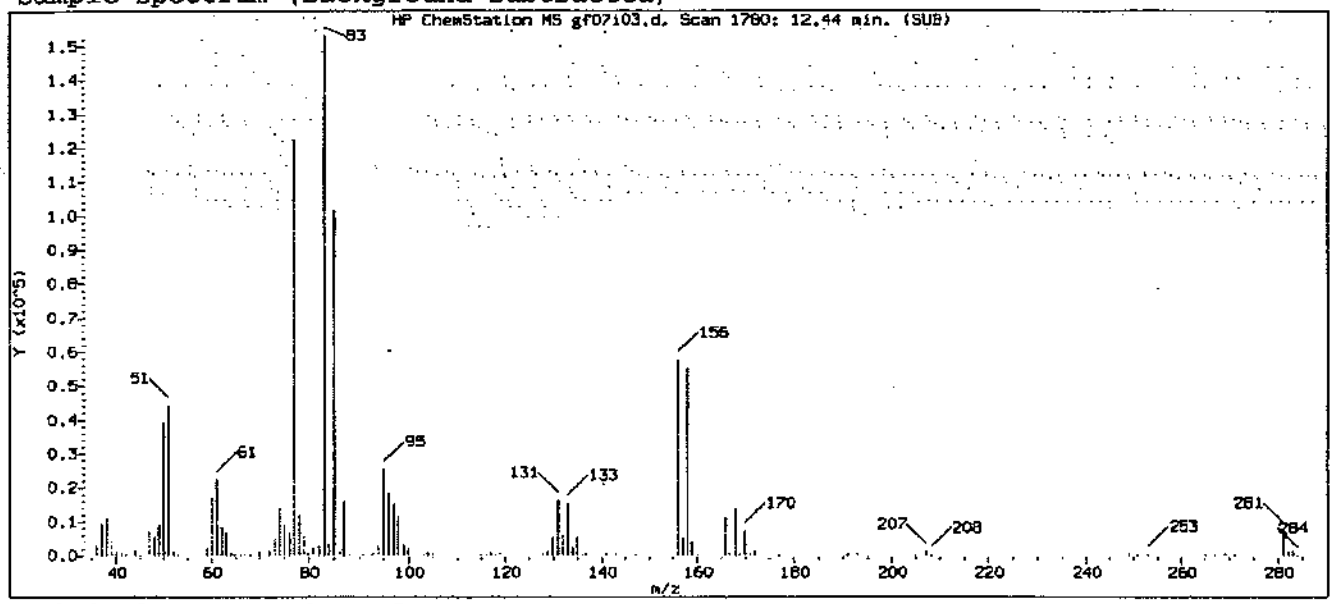
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area (flag) : 245089M
On-Column Amount (ng) : 4.9148
Integration start scan : 1772 Integration stop scan: 1785
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

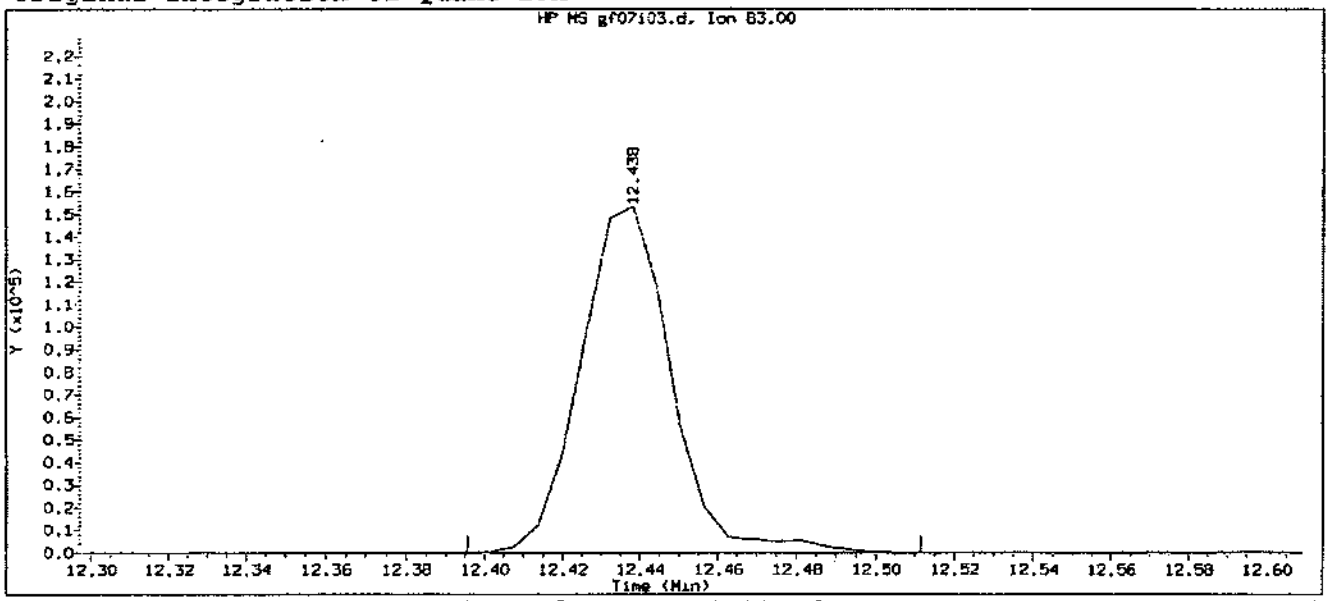
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8186

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:23
Date, time and analyst ID of latest file update: 07-Feb-2011 15:23 Automation

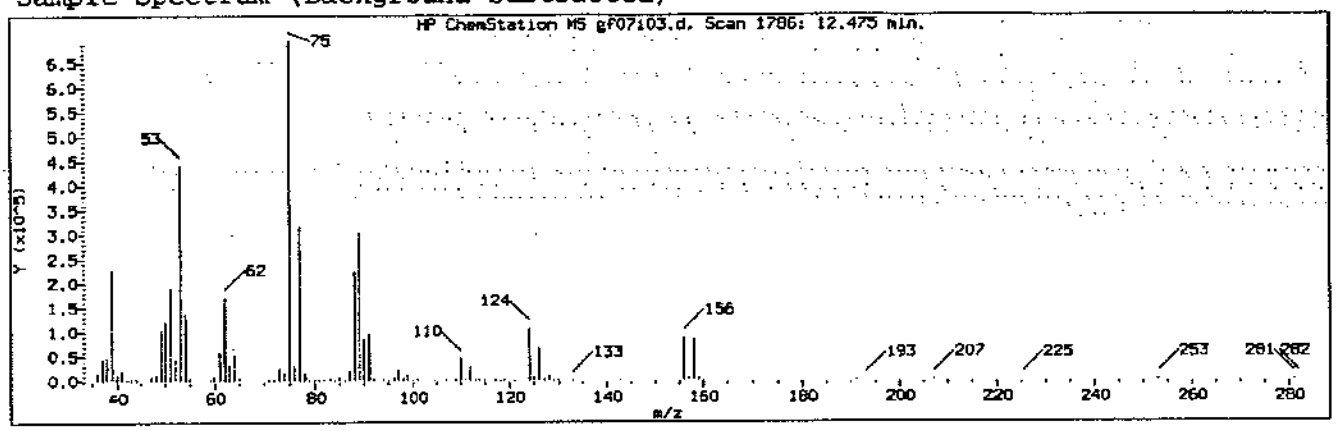
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 248887
On-column Amount (ng) : 4.9496
Integration start scan : 1772 Integration stop scan: 1791
Y at integration start : 0 Y at integration end: 0

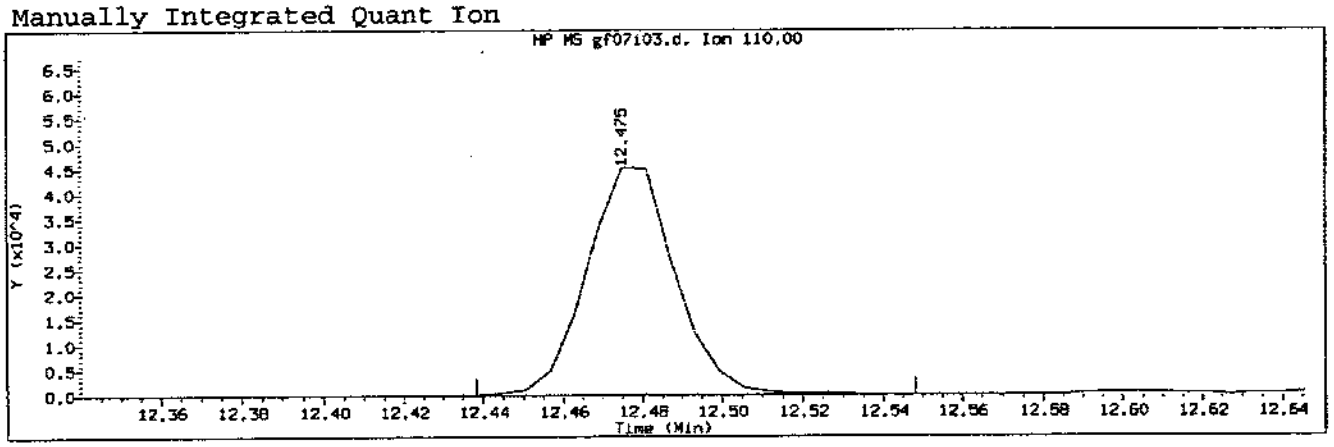
WAT138181

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

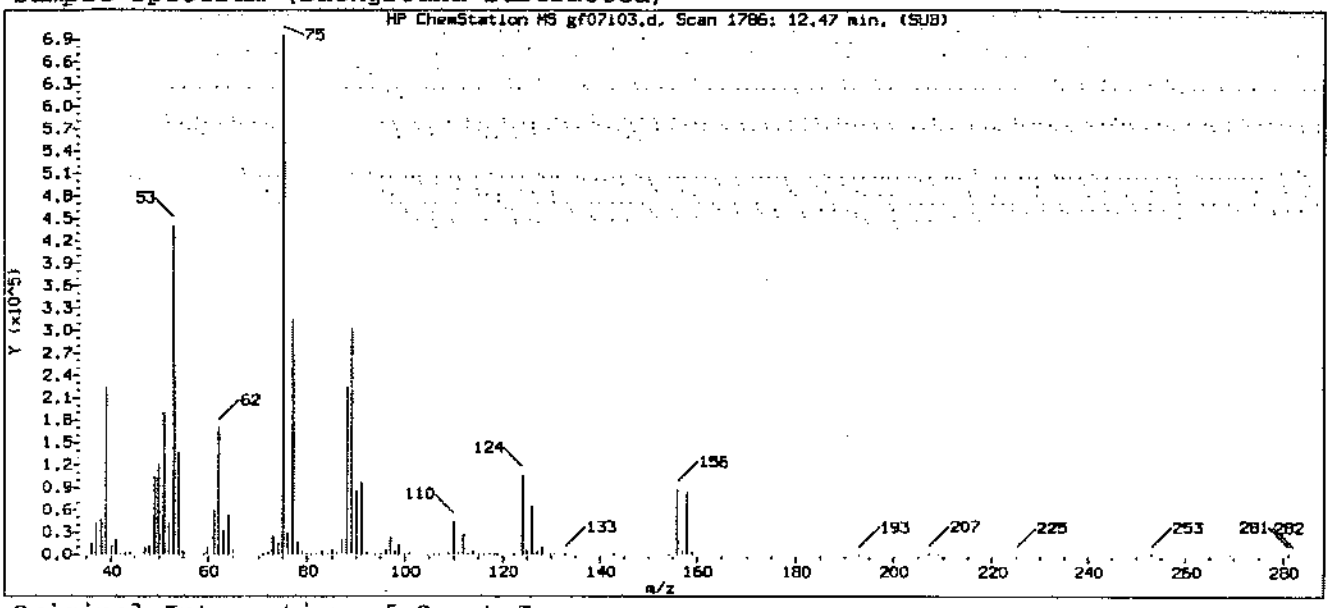
Compound Number : 76
Compound Name : 1,2,3-Trichloropropane
Scan Number : 1786
Retention Time (minutes): 12.475
Quant Ion : 110.00
Area (flag) : 70454M
On-Column Amount (ng) : 4.7809
Integration start scan : 1779 Integration stop scan: 1797
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

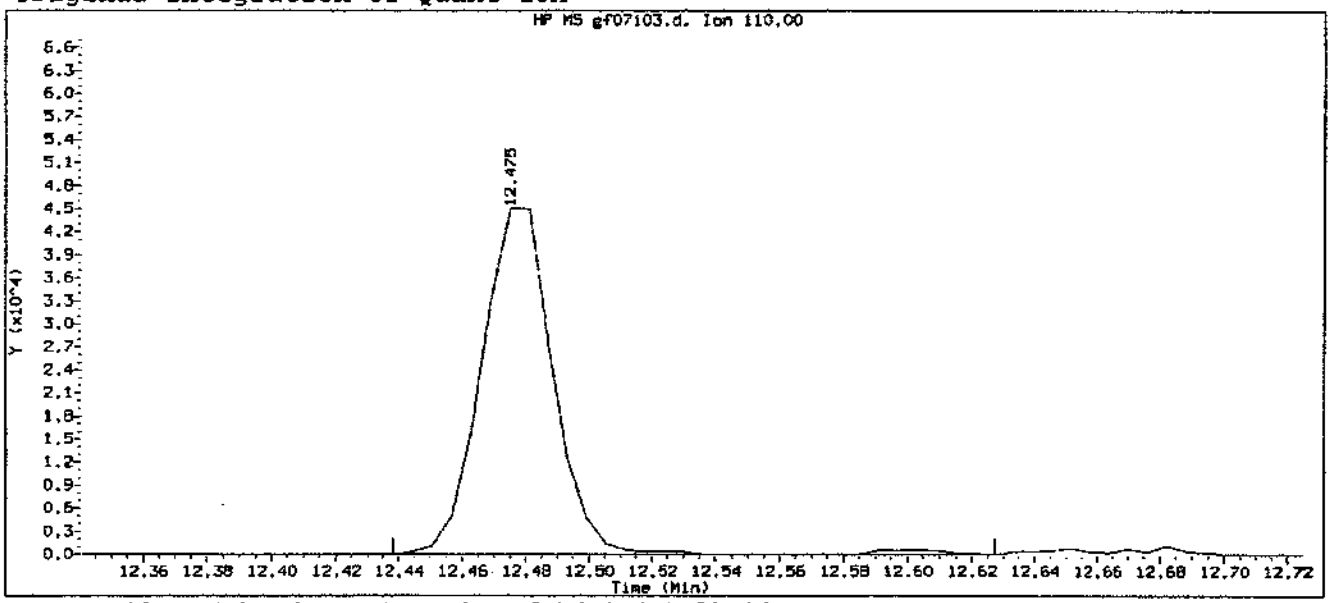
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8182

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:23
Date, time and analyst ID of latest file update: 07-Feb-2011 15:23 Automation

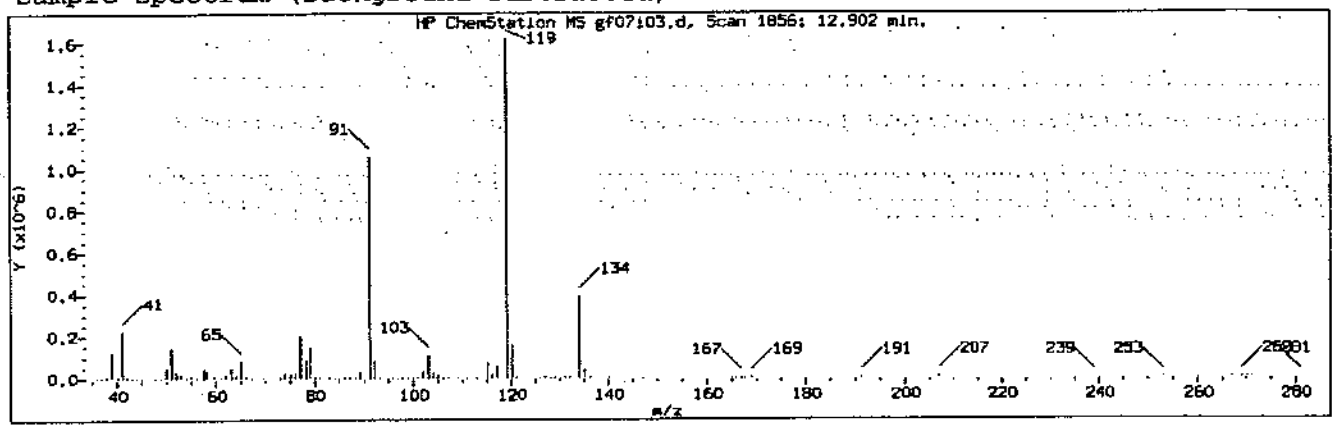
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number	: 76
Compound Name	: 1,2,3-Trichloropropane
Scan Number	: 1786
Retention Time (minutes)	: 12.475
Quant Ion	: 110.00
Area	: 71368
On-column Amount (ng)	: 5.0059
Integration start scan	: 1779 Integration stop scan: 1810
Y at integration start	: 0 Y at integration end: 0

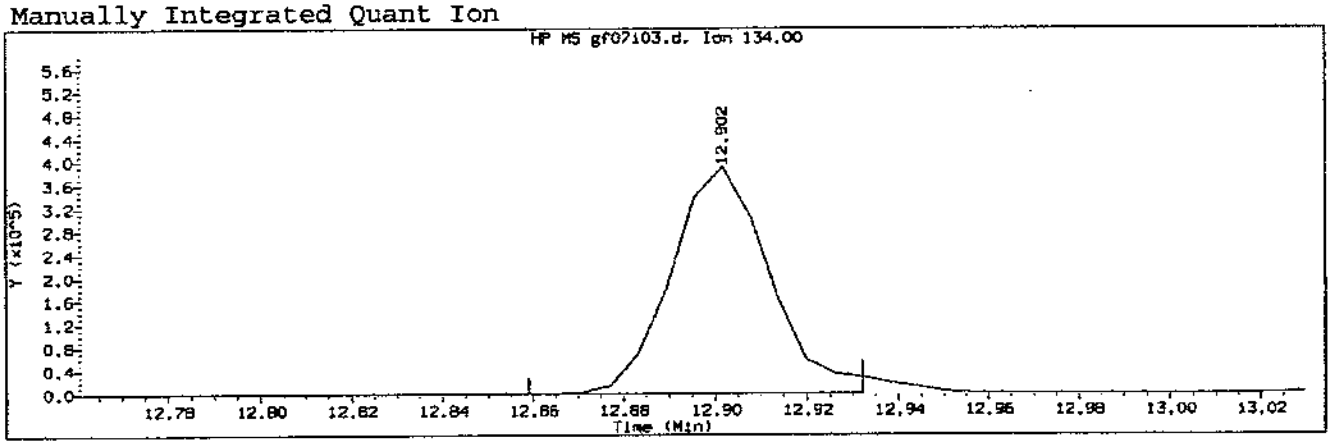
WAT13 8183

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

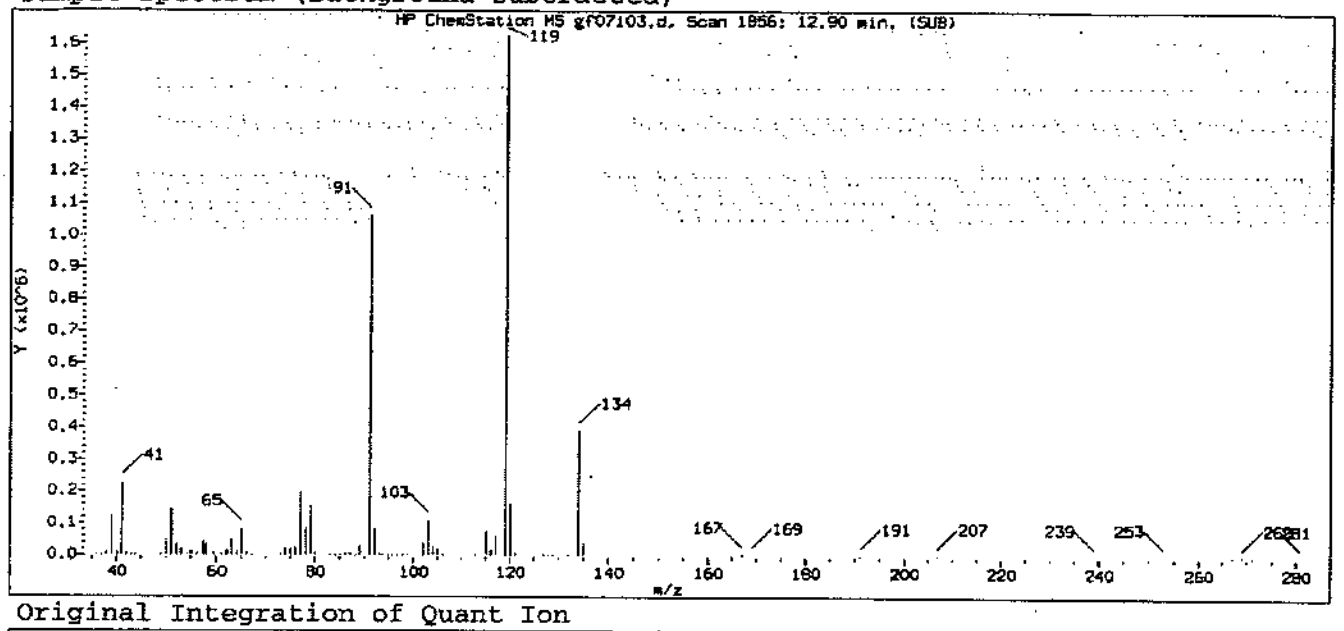
Compound Number	: 82		
Compound Name	: tert-Butylbenzene		
Scan Number	: 1856		
Retention Time (minutes)	: 12.902		
Quant Ion	: 134.00		
Area (flag)	: 579136M		
On-Column Amount (ng)	: 5.0760		
Integration start scan	: 1848	Integration stop scan:	1860
Y at integration start	: 0	Y at integration end:	0

Reason for manual integration: improper integration

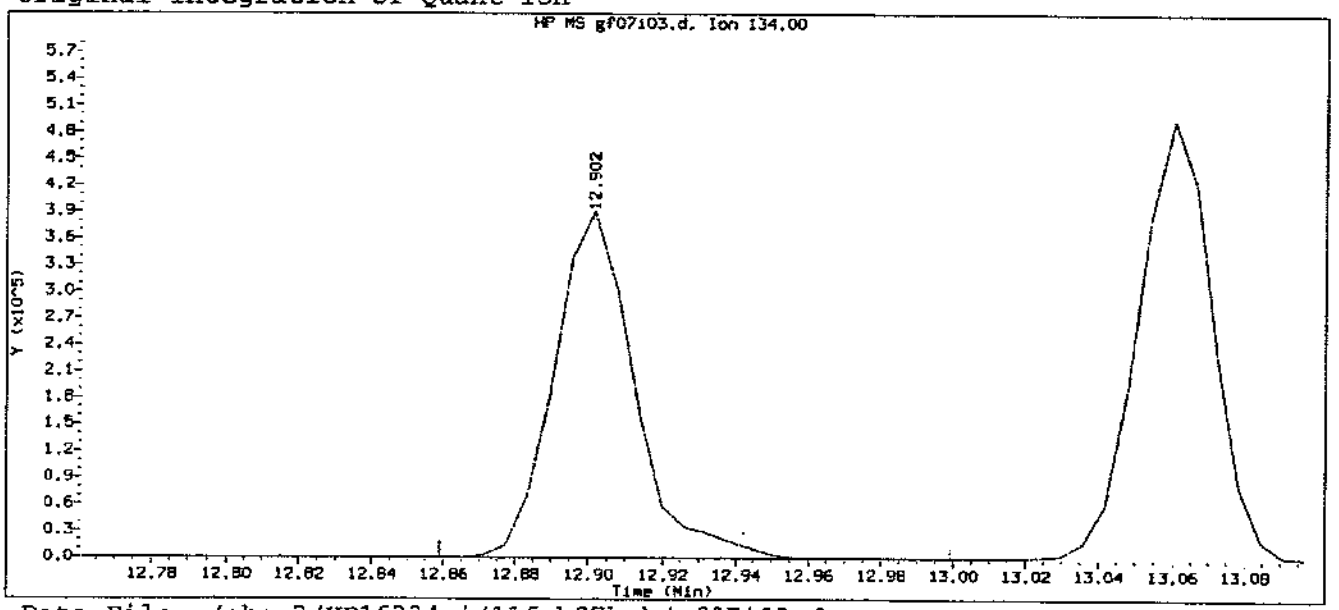
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8164

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:23
Date, time and analyst ID of latest file update: 07-Feb-2011 15:23 Automation

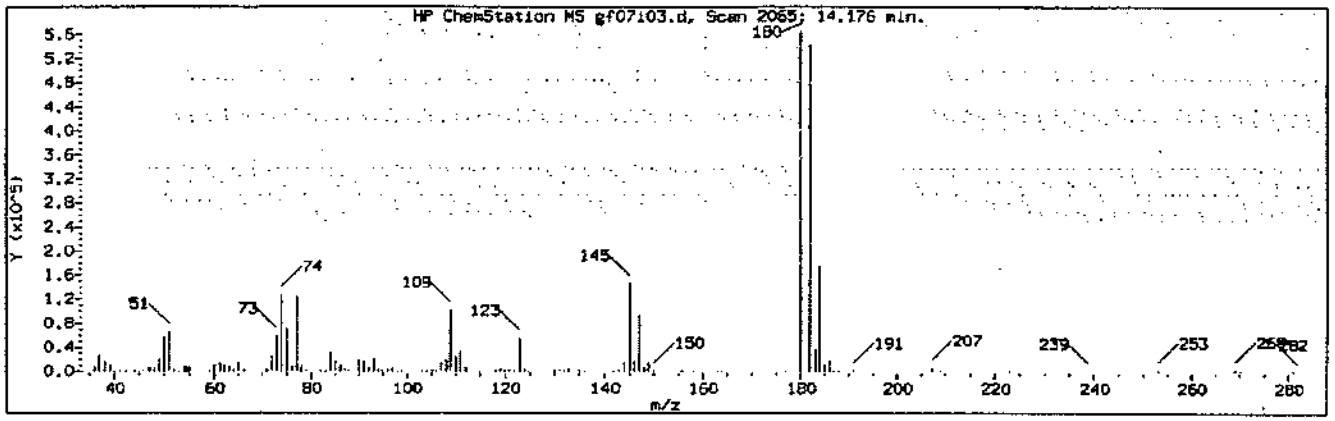
Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 591881
On-column Amount (ng) : 5.0984
Integration start scan : 1848 Integration stop scan: 1871
Y at integration start : 0 Y at integration end: 0

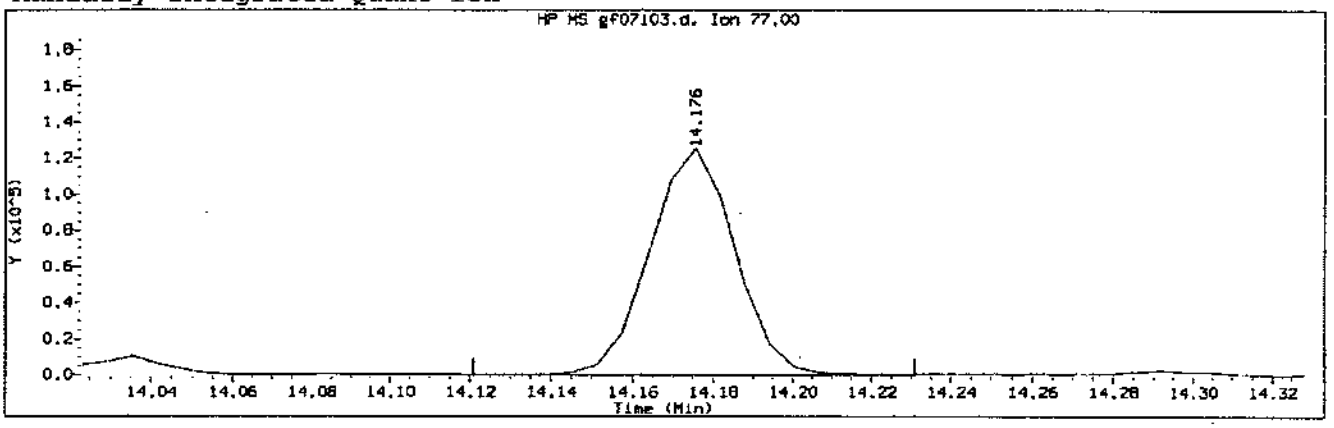
WAT13 8185

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: VSTD005 Lab Sample ID: VSTD005

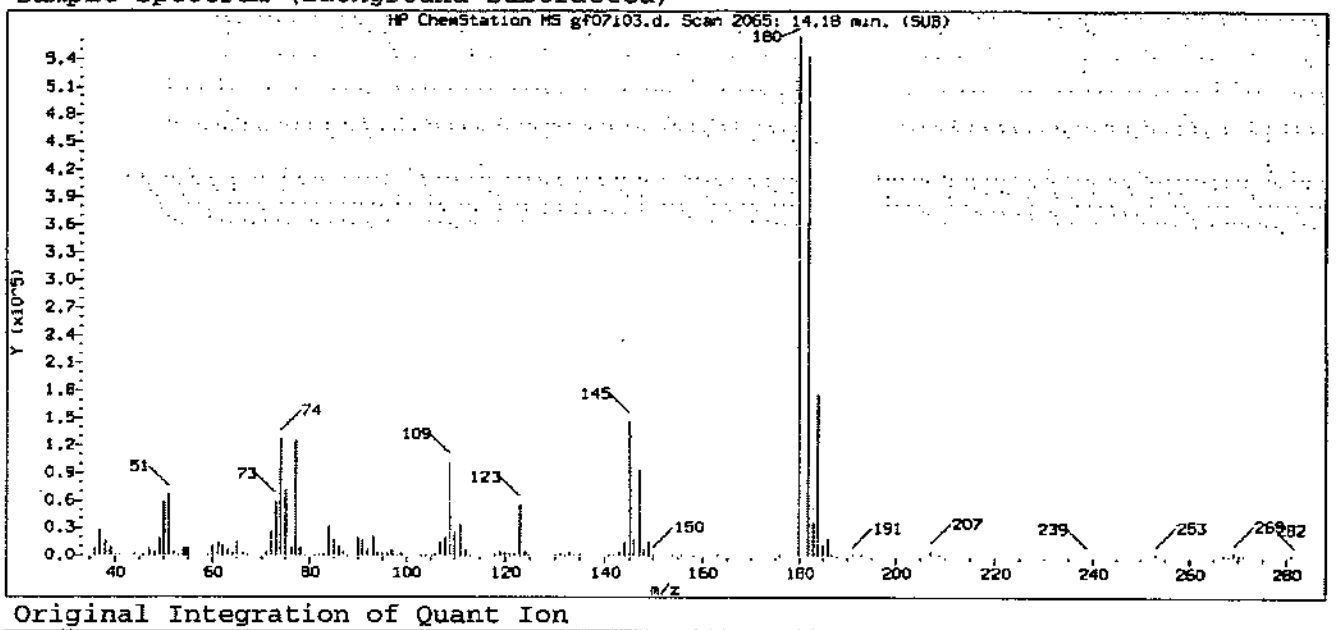
Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area (flag) : 184185M
On-Column Amount (ng) : 92.7794
Integration start scan : 2055 Integration stop scan: 2073
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

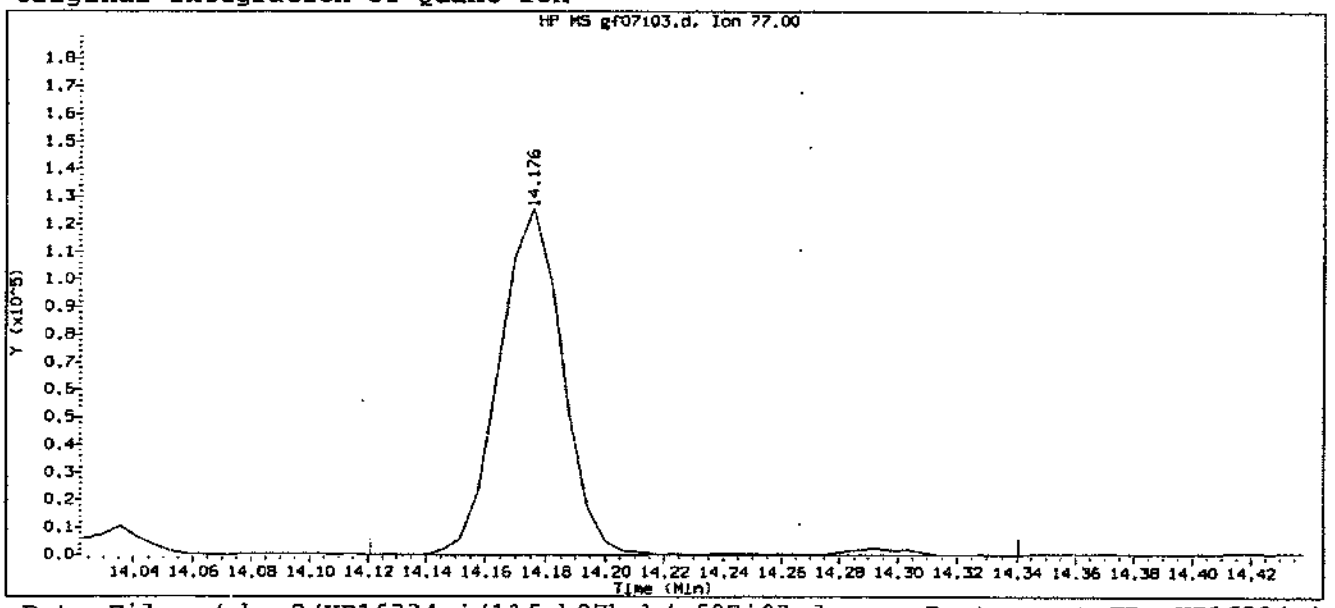
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 0186

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i03.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:05 Analyst ID: JML01693

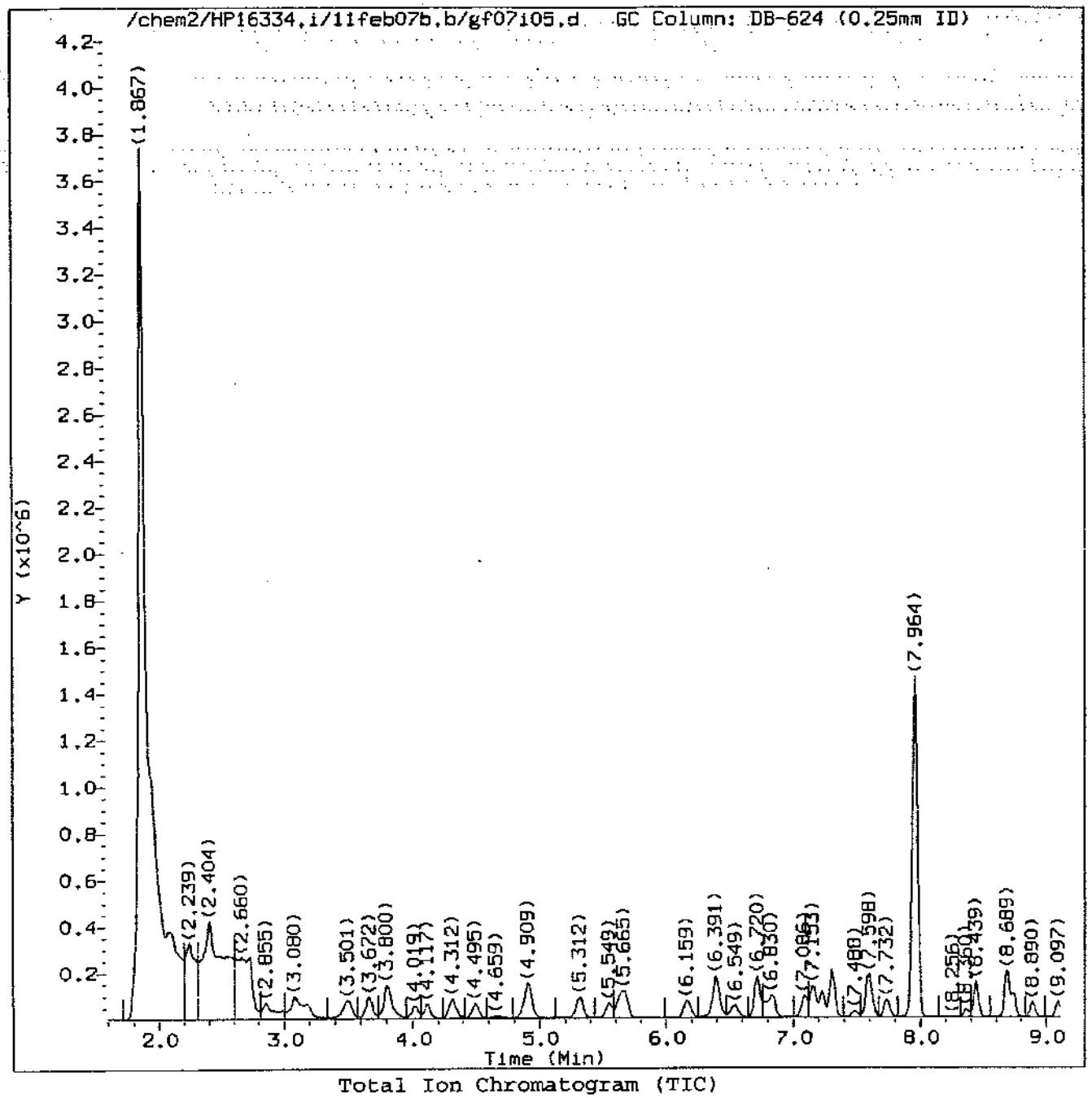
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 15:23
Date, time and analyst ID of latest file update: 07-Feb-2011 15:23 Automation

Sample Name: VSTD005 Lab Sample ID: VSTD005

Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area : 189512
On-column Amount (ng) : 113.2122
Integration start scan : 2055 Integration stop scan: 2091
Y at integration start : 0 Y at integration end: 0

WAT13 8187

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

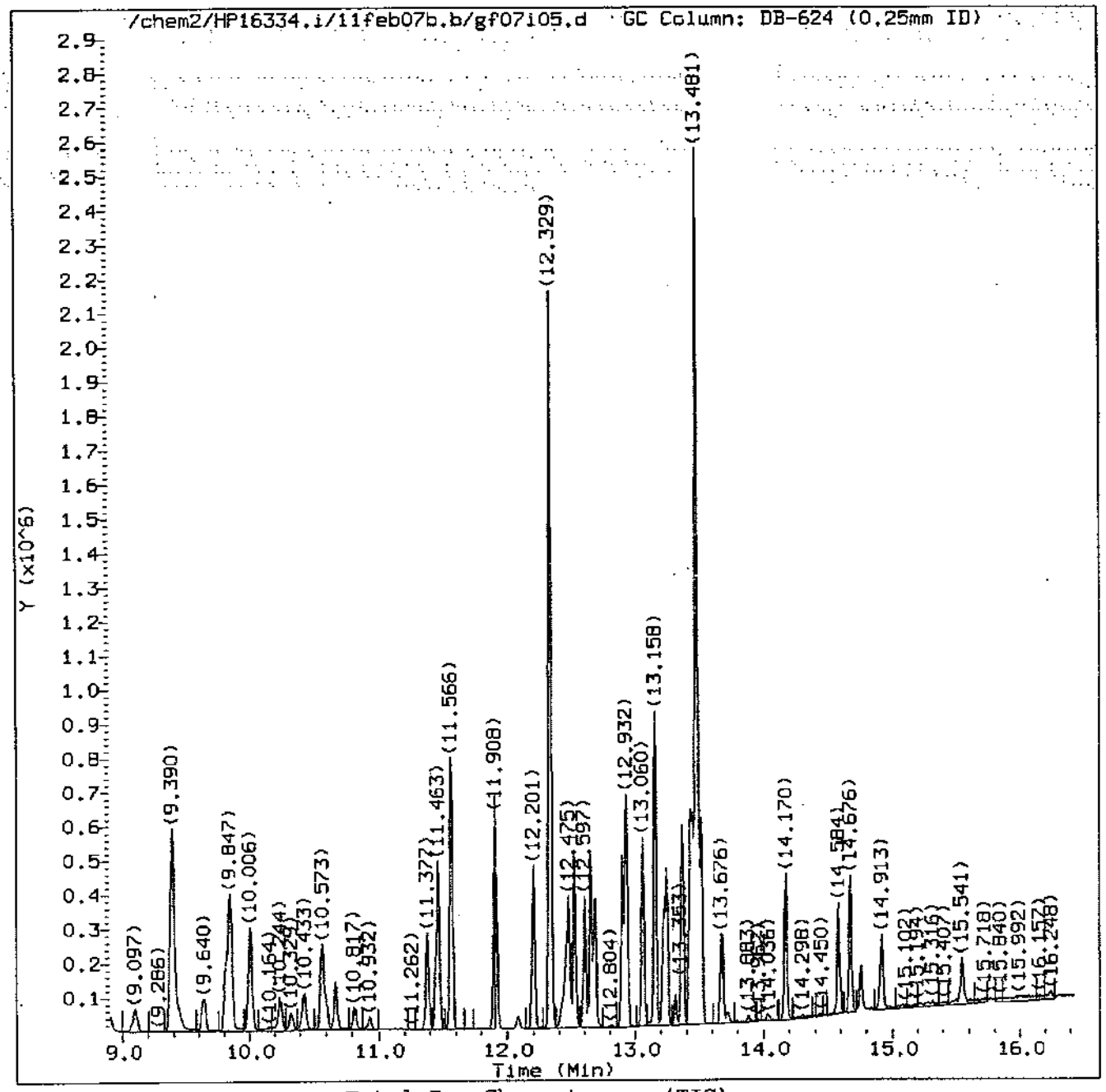
Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

WAT13 8188



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d
Injection date and time: 07-FEB-2011 15:49

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sublist used: REV4+ACRO

Sample Name: VSTD0.5

Lab Sample ID: VSTD0.5

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

WRT13 6189

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.099	85	101918A	0.519
2) Chloromethane	(1)	2.239	50	90561	0.554
3) Vinyl Chloride	(1)	2.379	62	78798	0.524
4) Bromomethane	(1)	2.751	94	53817	0.551
5) Chloroethane	(1)	2.855	64	44657	0.544
6) Dichlorofluoromethane	(1)	3.086	67	102872	0.535
7) Trichlorofluoromethane	(1)	3.190	101	112054M	0.519
8) Ethyl Ether	(1)	3.470	59	27065	0.551
9) Acrolein	(1)	3.672	56	150113	25.292
10) 1,1-Dichloroethene	(1)	3.800	96	51582	0.529
11) Freon 113	(1)	3.824	101	53604	0.504
12) Acetone	(1)	3.879	58	12902	5.674
13) Methyl Iodide	(1)	4.019	142	94293	0.507
14) Carbon Disulfide	(1)	4.117	76	131640	0.488
15) Allyl Chloride	(1)	4.306	39	64193	0.538
17) Methylene Chloride	(1)	4.495	84	52967	0.543
18) t-Butyl Alcohol	(1)	4.659	59	26185M	10.790
19) Acrylonitrile	(1)	4.891	53	75034	6.647
20) trans-1,2-Dichloroethene	(1)	4.909	96	59734	0.518
21) Methyl Tertiary Butyl Ether	(1)	4.915	73	76846	0.513
22) 1,1-Dichloroethane	(1)	5.543	63	109314	0.523
24) di-Isopropyl Ether	(1)	5.629	87	41645	0.516
25) Ethyl t-Butyl Ether	(1)	6.165	59	116917	0.517
26) cis-1,2-Dichloroethene	(1)	6.391	96	60022	0.519
27) 2,2-Dichloropropane	(1)	6.397	77	98876	0.509
28) 2-Butanone	(1)	6.427	43	62195M	5.042
29) Propionitrile	(1)	6.513	54	43930	10.490
30) Methyl Acrylate	(1)	6.549	55	85164	2.534
31) Methacrylonitrile	(1)	6.720	67	73262	5.147
32) Bromochloromethane	(1)	6.726	128	20797	0.524
33) Tetrahydrofuran	(1)	6.787	71	23321	7.080
34) Chloroform	(1)	6.836	83	105853	0.510
35) 1,1,1-Trichloroethane	(1)	7.086	97	96299	0.501
36) 1-Chlorobutane	(1)	7.232	49	5899	0.544
38) 1,1-Dichloropropene	(1)	7.305	75	86861	0.512
37) Carbon Tetrachloride	(1)	7.311	117	82303	0.479
39) Benzene	(1)	7.586	78	229007	0.518
40) 1,2-Dichloroethane	(1)	7.616	62	50443	0.515

M = Compound was manually integrated.
A = User selected an alternate hit.

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.738	73	91164	0.522
42)*Fluorobenzene	(1)	7.964	96	1821455	5.000
43) Trichloroethene	(1)	8.439	95	65370	0.513
44) 1,2-Dichloropropane	(1)	8.738	63	53926	0.521
45) Methyl Methacrylate	(1)	8.884	69	12759	0.494
46) Dibromomethane	(1)	8.890	93	19148	0.511
47) Bromodichloromethane	(1)	9.097	83	57201	0.492
48) 2-Nitropropane	(1)	9.390	46	16678	48.894
49) Chloroacetonitrile	(1)	9.439	75	43687	26.127
50) cis-1,3-Dichloropropene	(1)	9.640	75	63077	0.482
51) 4-Methyl-2-Pentanone	(1)	9.811	58	59321	5.060
52) 1,1-Dichloropropanone	(1)	9.847	83	30864	50.426
53) Toluene	(1)	10.012	92	146184	0.507
55) trans-1,3-Dichloropropene	(1)	10.244	75	49147	0.484
56) Ethyl Methacrylate	(1)	10.329	69	27232	0.491
57) 1,1,2-Trichloroethane	(1)	10.433	83	22155	0.522
58) Tetrachloroethene	(1)	10.573	166	79421	0.521
59) 1,3-Dichloropropane	(1)	10.597	76	45756	0.518
60) 2-Hexanone	(1)	10.676	58	49803	4.845
61) Dibromochloromethane	(1)	10.823	129	29535	0.457
62) 1,2-Dibromoethane	(1)	10.932	107	23881	0.520
64) Chlorobenzene	(1)	11.377	112	152993	0.510
65) 1,1,1,2-Tetrachloroethane	(1)	11.445	131	49287	0.494
66) Ethylbenzene	(1)	11.469	106	87897	0.493
67) m+p-Xylene	(1)	11.566	106	215091	0.985
70) Xylene (Total)	(1)		106	321850	1.498
68) o-Xylene	(1)	11.902	106	106759	0.513
69) Styrene	(1)	11.914	104	144484	0.472
71) Bromoform	(1)	12.085	173	15757	0.463
72) Isopropylbenzene	(1)	12.201	120	75645	0.491
73)$4-Bromofluorobenzene	(1)	12.329	174	564495	5.089
74) 1,1,2,2-Tetrachloroethane	(1)	12.432	83	24186M	0.508
75) Bromobenzene	(1)	12.457	156	57510	0.509
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	54525	4.548
76) 1,2,3-Trichloropropane	(1)	12.481	110	7506	0.534
78) n-Propylbenzene	(1)	12.518	120	83037	0.502
79) 2-Chlorotoluene	(1)	12.597	126	68689	0.510
80) 1,3,5-Trimethylbenzene	(1)	12.646	105	245861	0.494

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

WAT13 9191

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

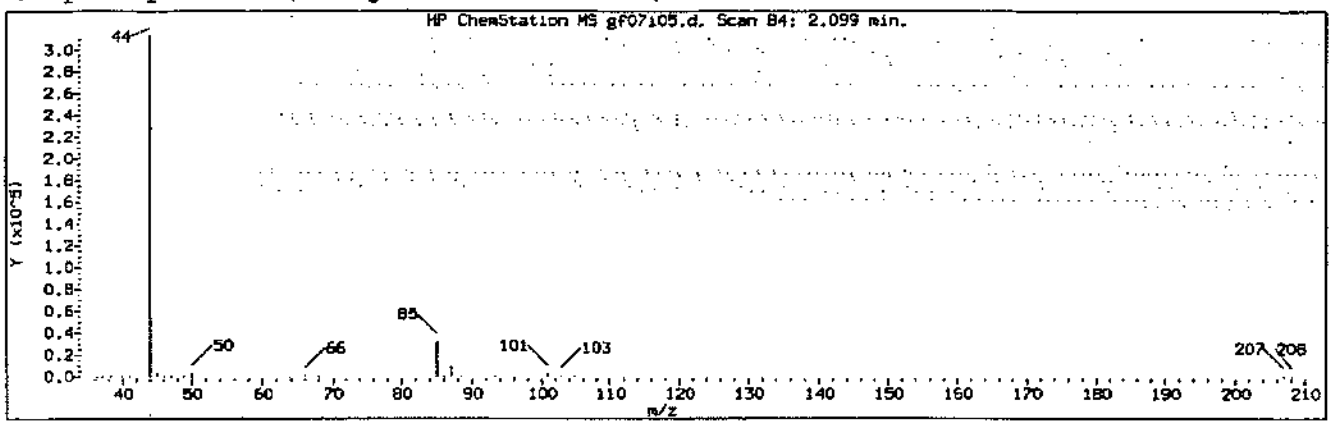
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.676	126	66104	0.499
82) tert-Butylbenzene	(1)	12.902	134	52593M	0.483
84) 1,2,4-Trimethylbenzene	(1)	12.932	105	249124	0.490
83) Pentachloroethane	(1)	12.932	167	34209	0.487
85) sec-Butylbenzene	(1)	13.060	134	66025	0.495
87) 1,3-Dichlorobenzene	(1)	13.158	146	131940	0.514
86) p-Isopropyltoluene	(1)	13.158	119	286170	0.499
88) 1,4-Dichlorobenzene	(1)	13.225	146	124314	0.510
89) n-Butylbenzene	(1)	13.450	92	150744	0.496
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	596598	5.038
91) 1,2-Dichlorobenzene	(1)	13.493	146	107652	0.530
92) Hexachloroethane	(1)	13.682	201	43284	0.470
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036	157	4672	0.504
94) Nitrobenzene	(1)	14.176	77	16068	8.479
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	89022	0.527
96) Hexachlorobutadiene	(1)	14.676	225	68955	0.506
97) Naphthalene	(1)	14.761	128	92871	0.508
98) 1,2,3-Trichlorobenzene	(1)	14.913	180	65711	0.534

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

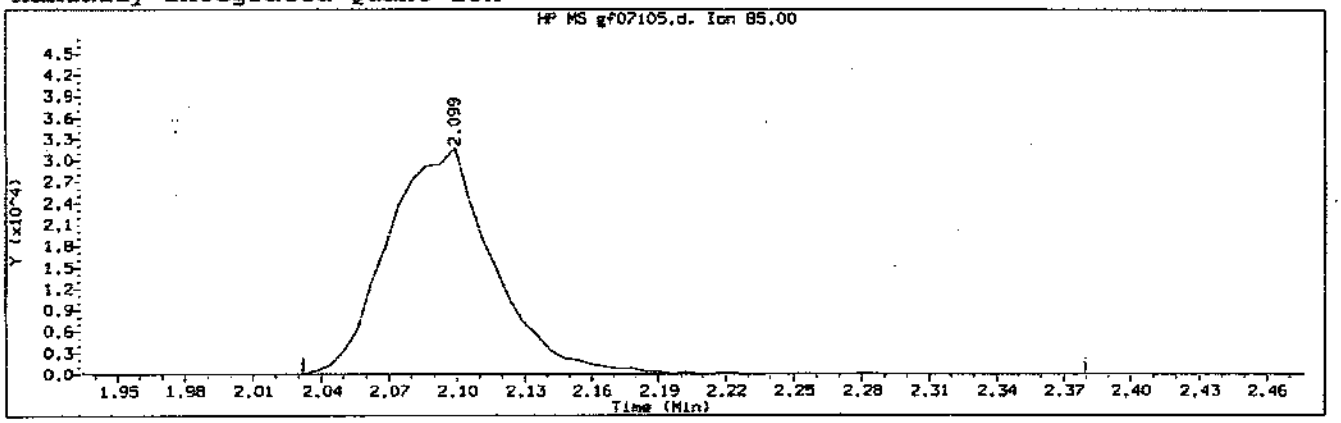
Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

WAT13 0152

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:08
Date, time and analyst ID of latest file update: 08-Feb-2011 20:08 sej02002

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

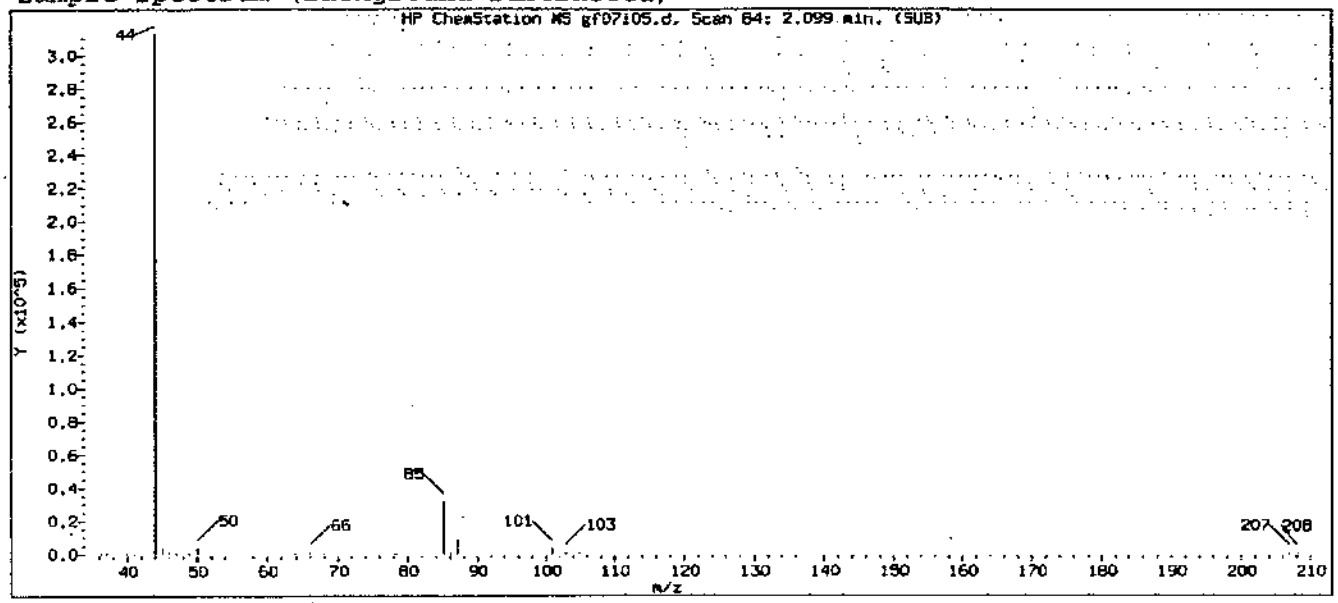
Compound Number : 1
Compound Name : Dichlorodifluoromethane
Scan Number : 84
Retention Time (minutes): 2.099
Quant Ion : 85.00
Area (flag) : 101918A
On-Column Amount (ng) : 0.5188
Integration start scan : 72 Integration stop scan: 129
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

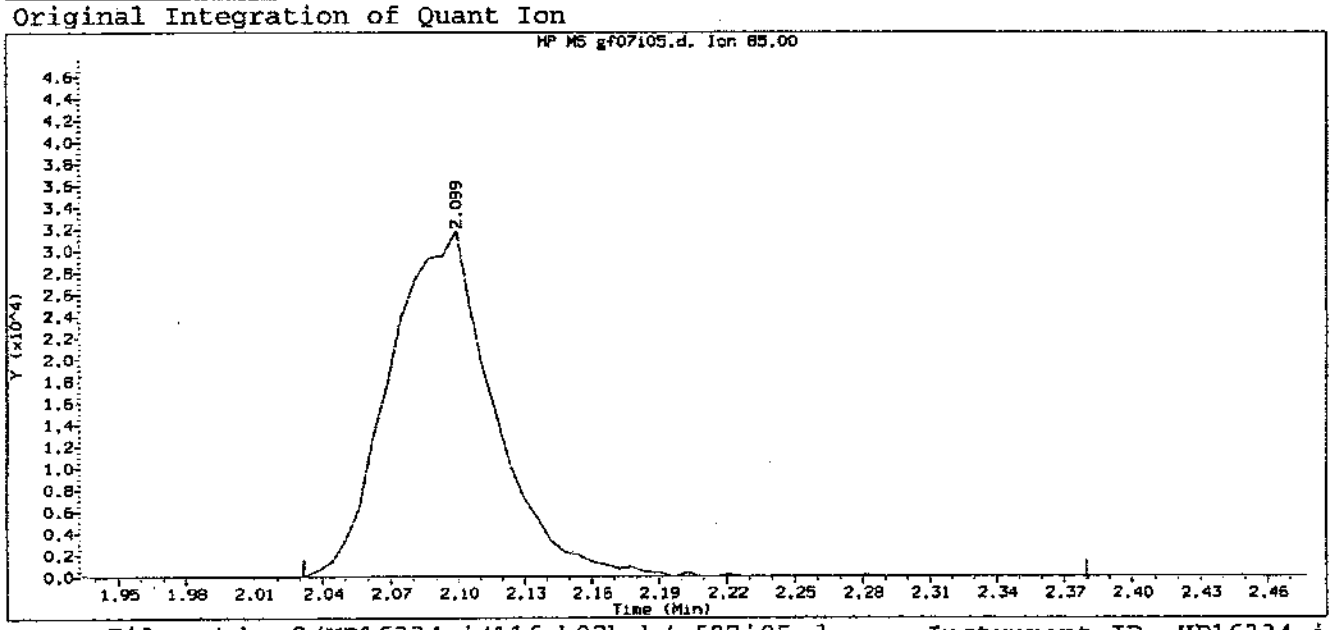
Analyst responsible for change: Digitally signed by Sara E. Johnson on 02/08/2011 at 20:09. Target 3.5 esignature user ID: sej02002

GC/MS audit/management approval: 2/8/11 WAT13 8193

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

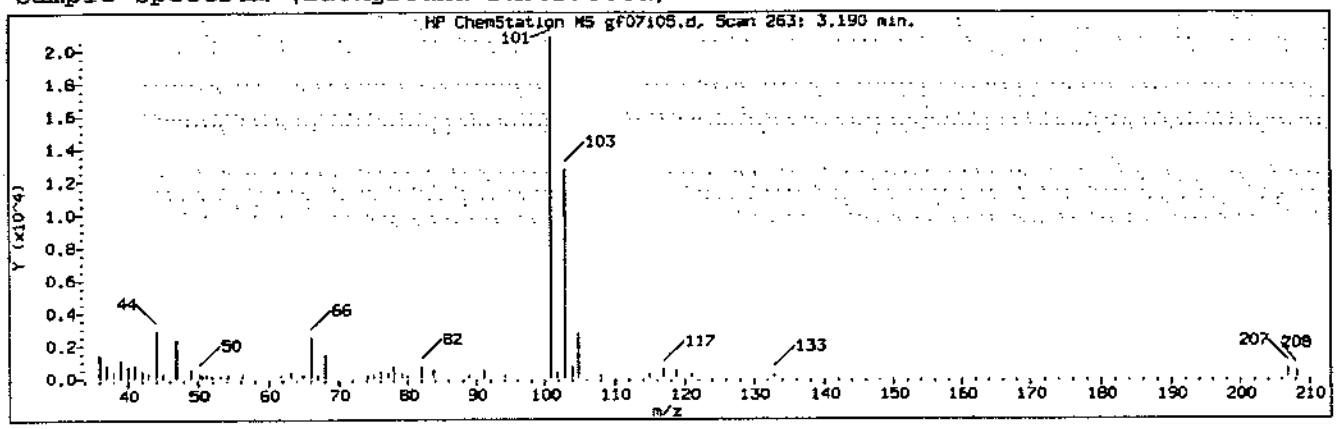
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 1
Compound Name : Dichlorodifluoromethane
Scan Number : 84
Retention Time (minutes): 2.099
Quant Ion : 85.00
Area : 101918
On-column Amount (ng) : 0.5188
Integration start scan : 72 Integration stop scan: 129
Y at integration start : 0 Y at integration end: 0

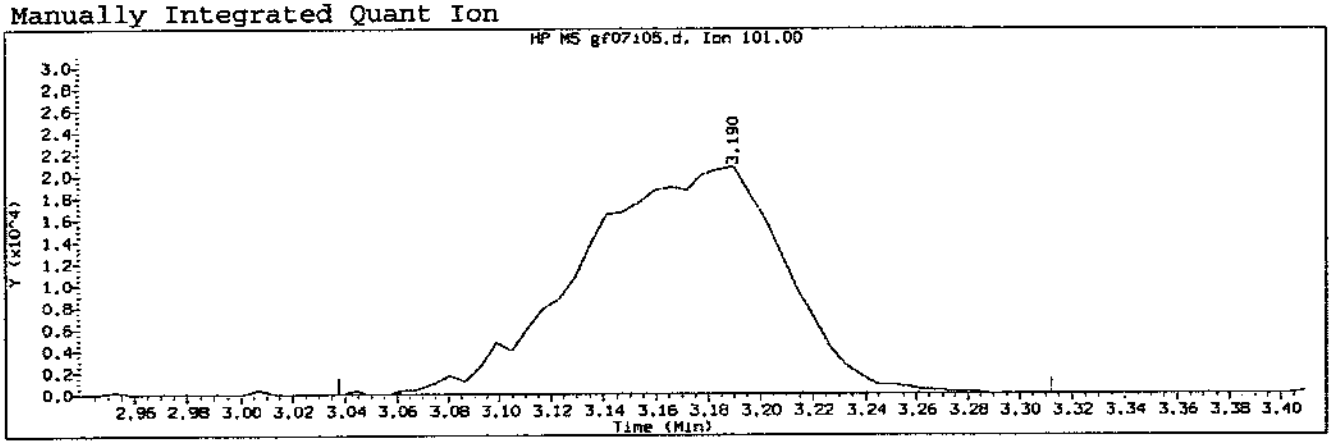
WAT13 8194

Digitally signed by Sara E. Johnson on 02/08/2011 at 20:09.
Target 3.5 esignature user ID: sej02002

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:34
Date, time and analyst ID of latest file update: 08-Feb-2011 08:34 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

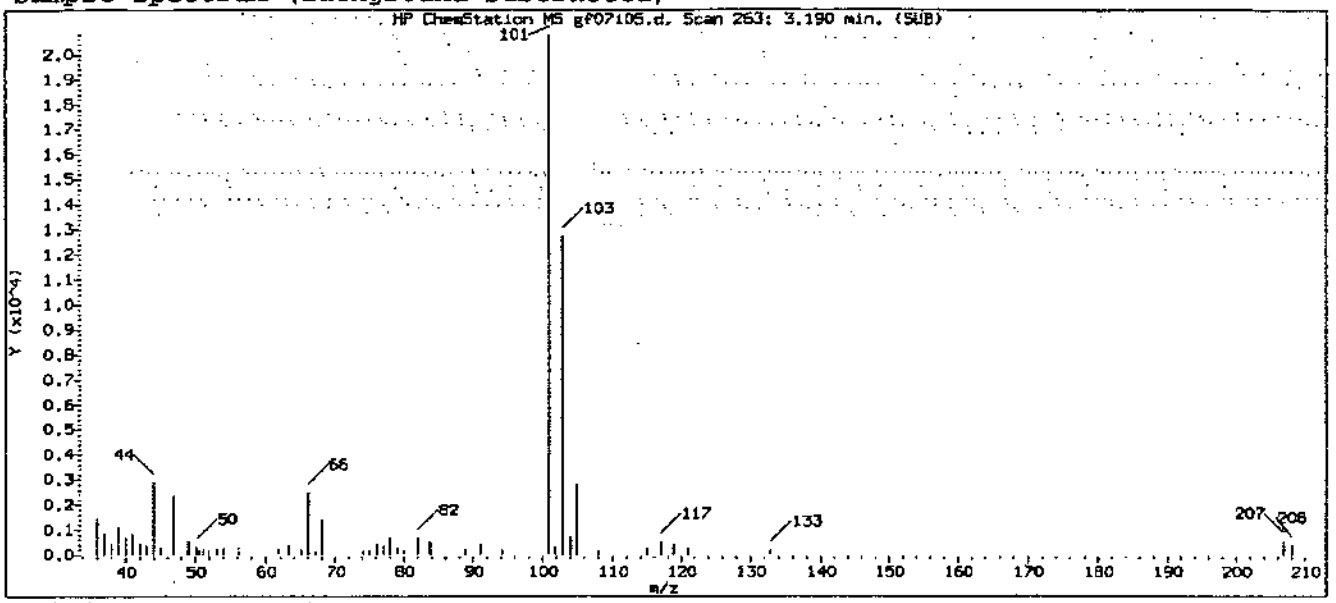
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 263
Retention Time (minutes): 3.190
Quant Ion : 101.00
Area (flag) : 112054M
On-Column Amount (ng) : 0.5189
Integration start scan : 237 Integration stop scan: 282
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

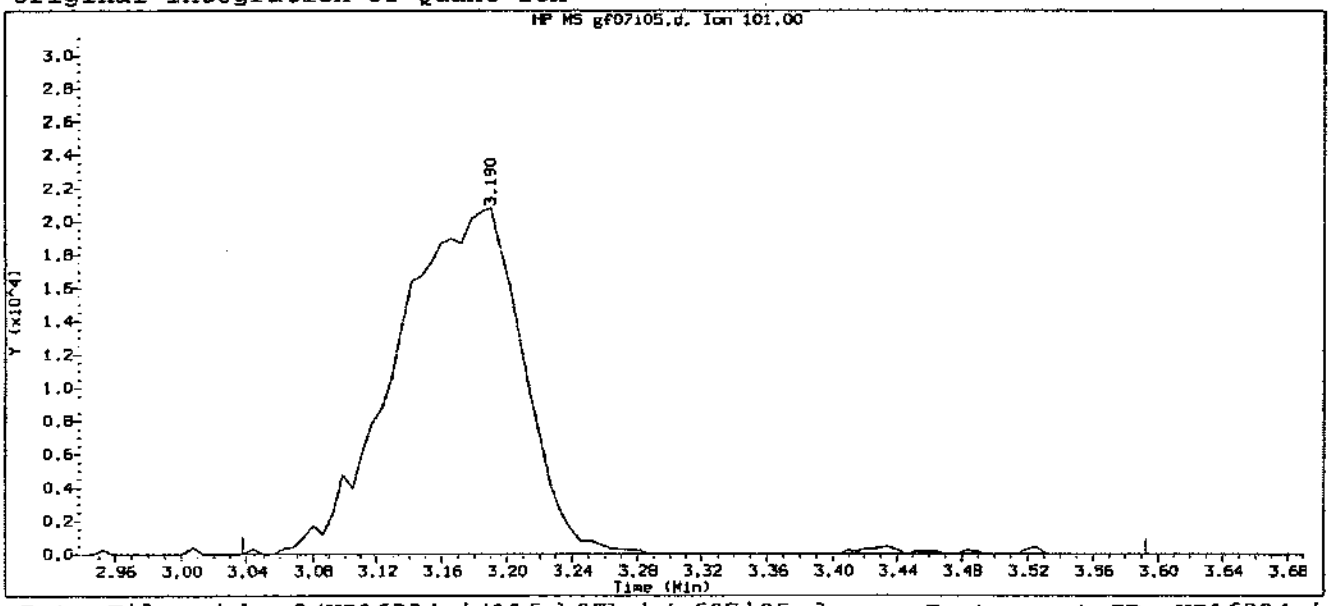
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 0195

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

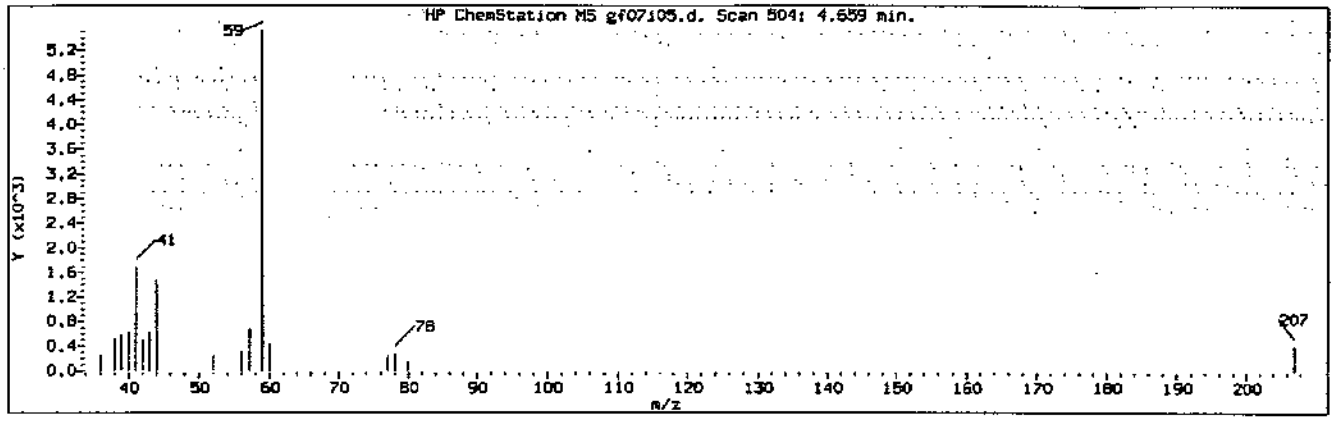
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

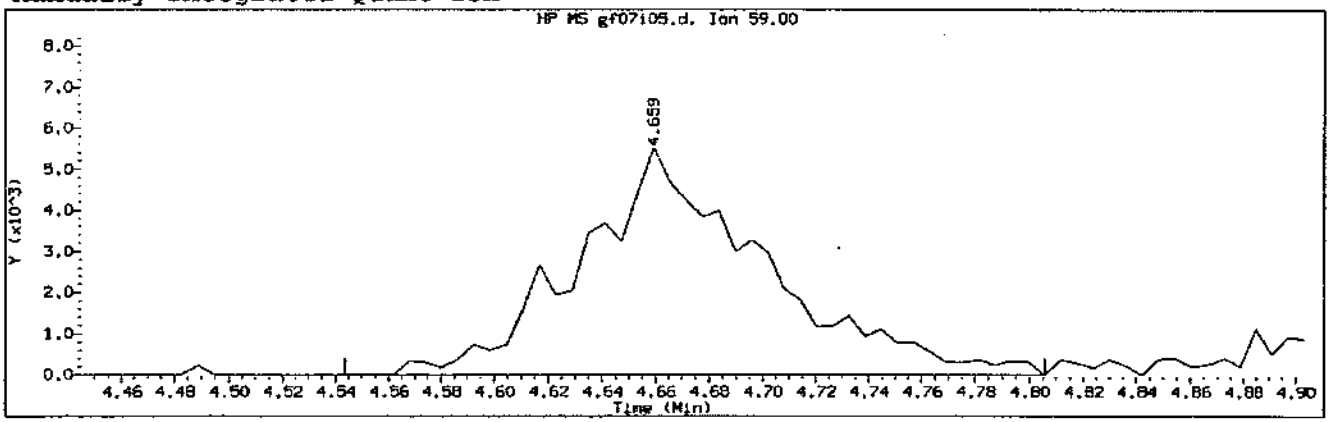
Compound Number : 7
Compound Name : Trichlorofluoromethane
Scan Number : 263
Retention Time (minutes): 3.190
Quant Ion : 101.00
Area : 113318
On-column Amount (ng) : 0.5216
Integration start scan : 237 Integration stop scan: 328
Y at integration start : 0 Y at integration end: 0 WAT13 8196

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:34
Date, time and analyst ID of latest file update: 08-Feb-2011 08:34 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

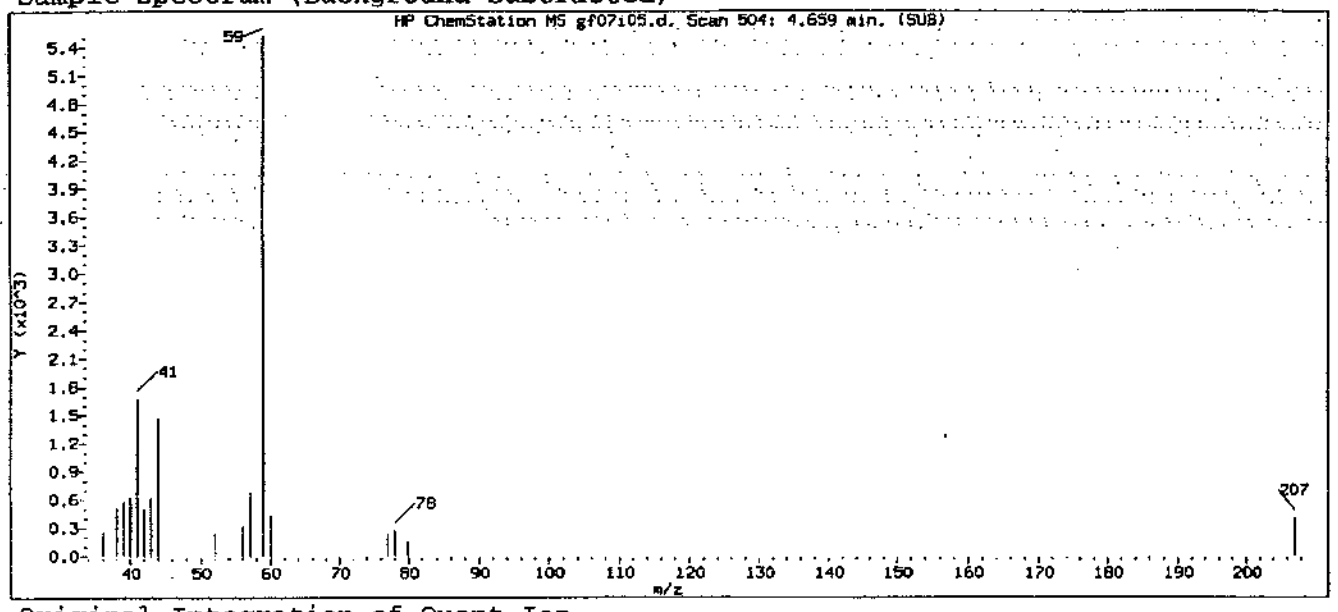
Compound Number : 18
Compound Name : t-Butyl Alcohol
Scan Number : 504
Retention Time (minutes): 4.659
Quant Ion : 59.00
Area (flag) : 26185M
On-Column Amount (ng) : 10.7903
Integration start scan : 484 Integration stop scan: 527
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

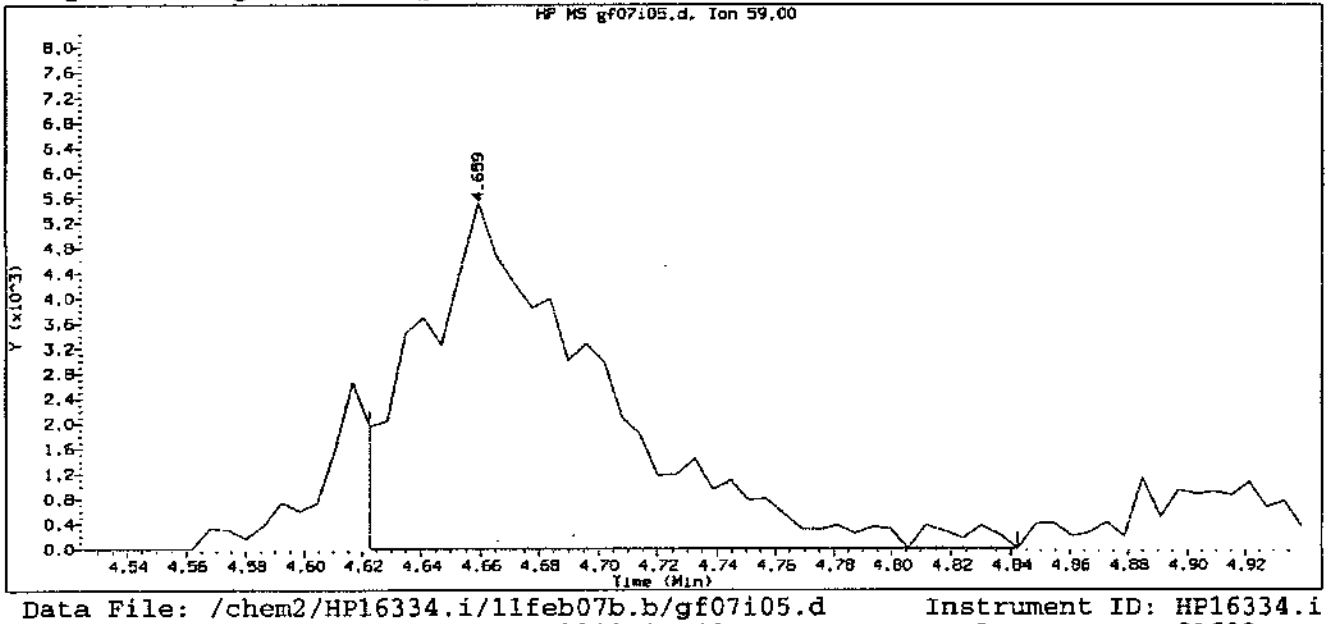
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 0197

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

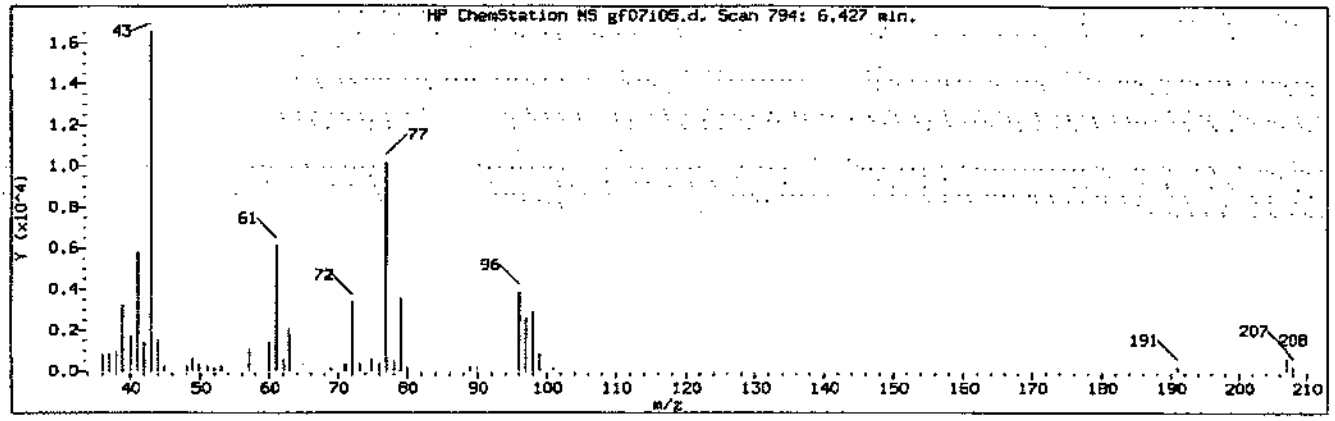
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 18
Compound Name : t-Butyl Alcohol
Scan Number : 504
Retention Time (minutes): 4.659
Quant Ion : 59.00
Area : 23606
On-column Amount (ng) : 9.9930
Integration start scan : 497 Integration stop scan: 533
Y at integration start : 0 Y at integration end: 0

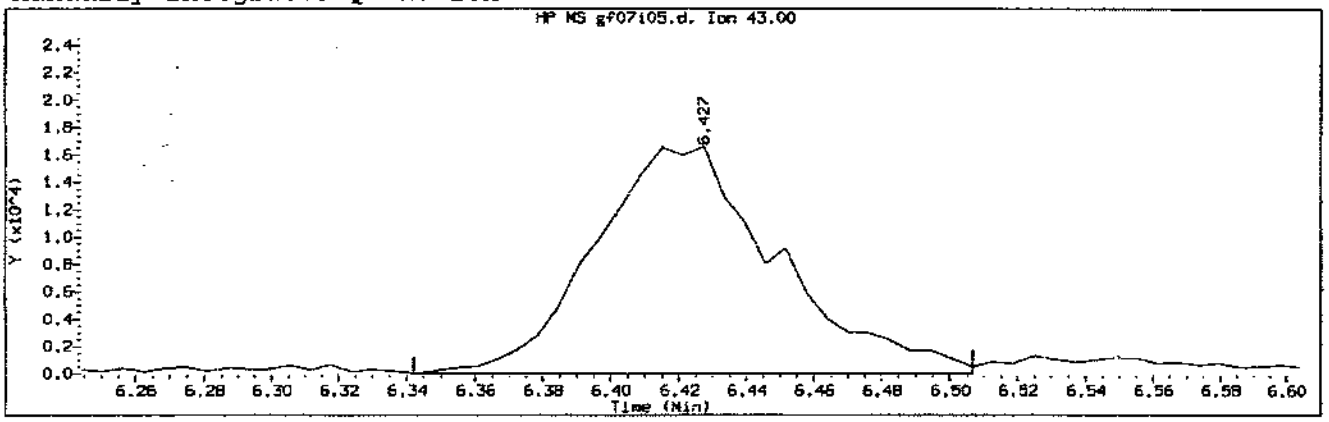
WAT13 5198

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:34
Date, time and analyst ID of latest file update: 08-Feb-2011 08:34 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

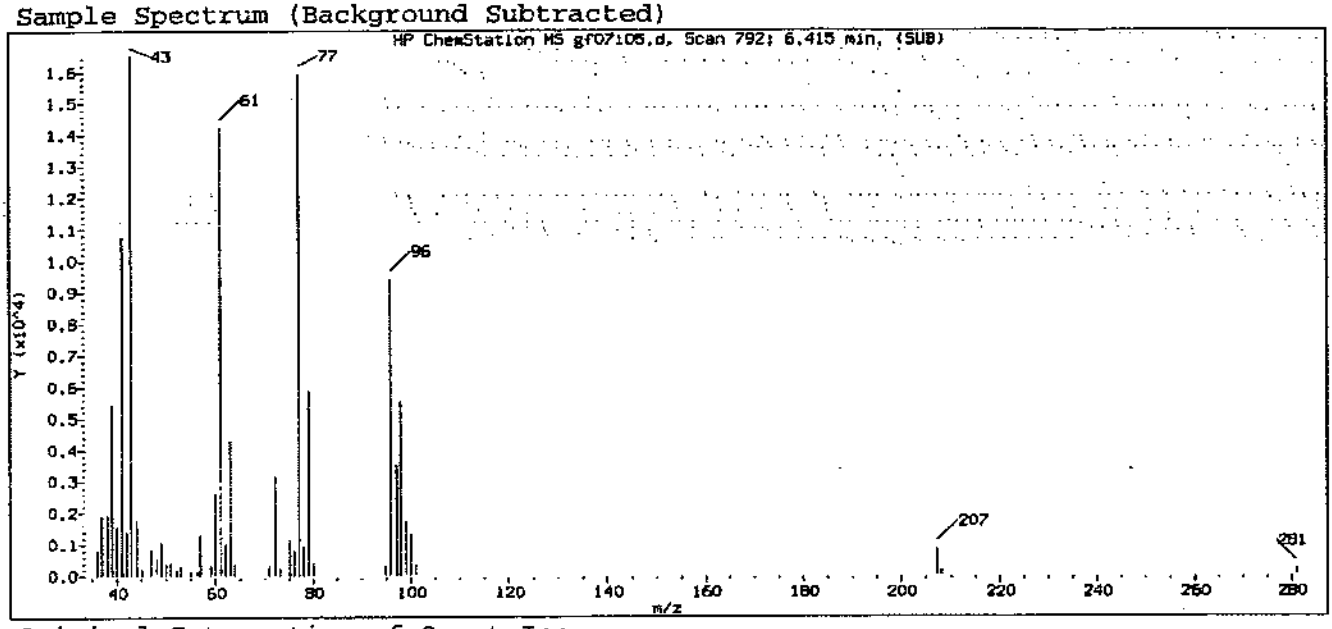
Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 794
Retention Time (minutes): 6.427
Quant Ion : 43.00
Area (flag) : 62195M
On-Column Amount (ng) : 5.0415
Integration start scan : 779 Integration stop scan: 806
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

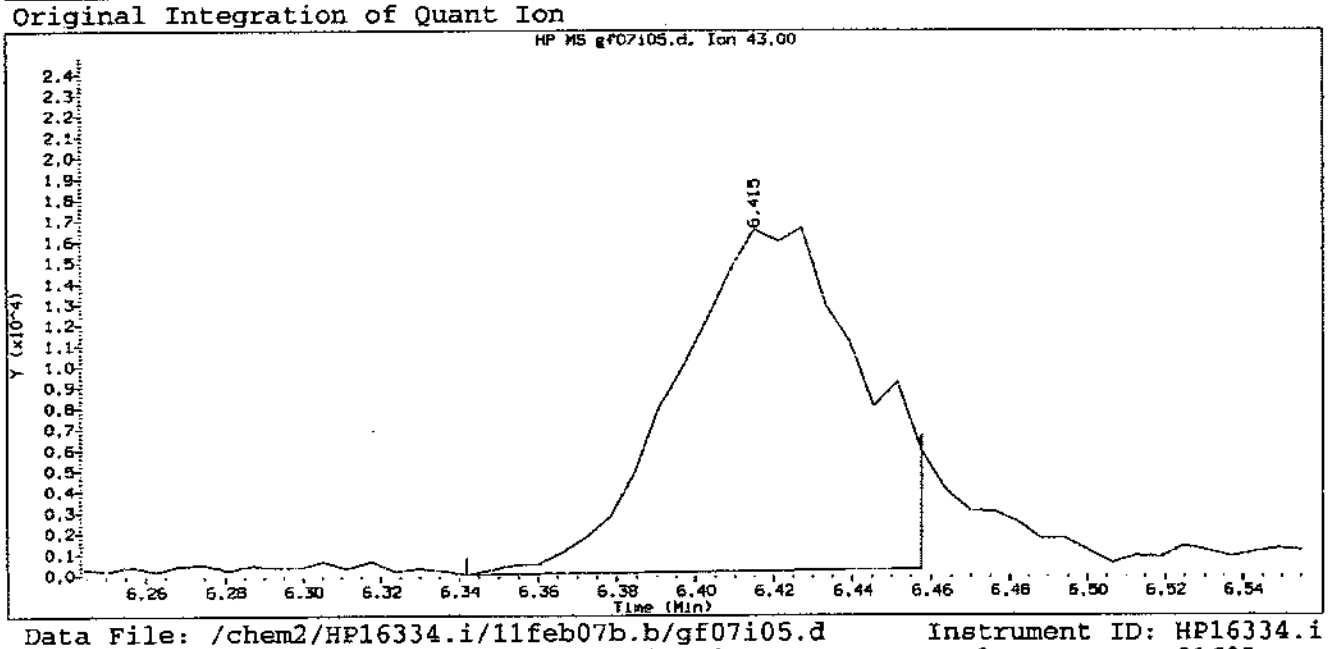
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8199

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

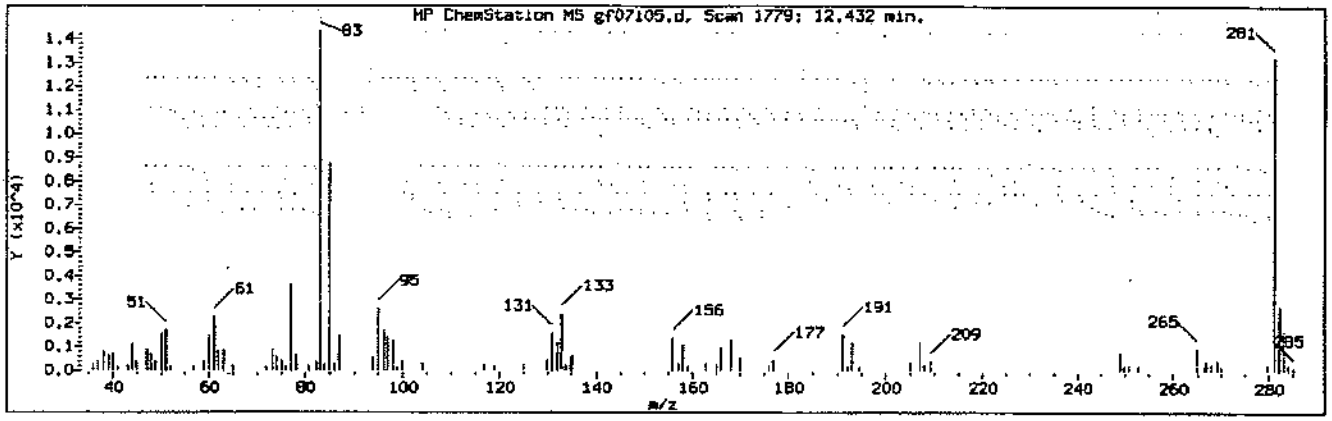
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 792
Retention Time (minutes): 6.415
Quant Ion : 43.00
Area : 53906
On-column Amount (ng) : 4.5216
Integration start scan : 779 Integration stop scan: 798
Y at integration start : 0 Y at integration end: 227

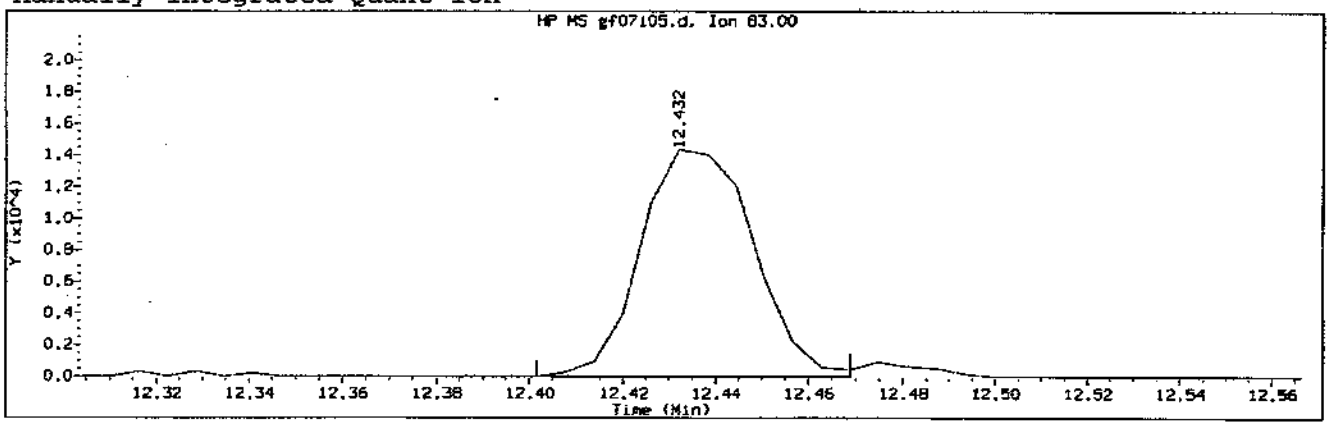
MAT13 8288

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:34
Date, time and analyst ID of latest file update: 08-Feb-2011 08:34 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

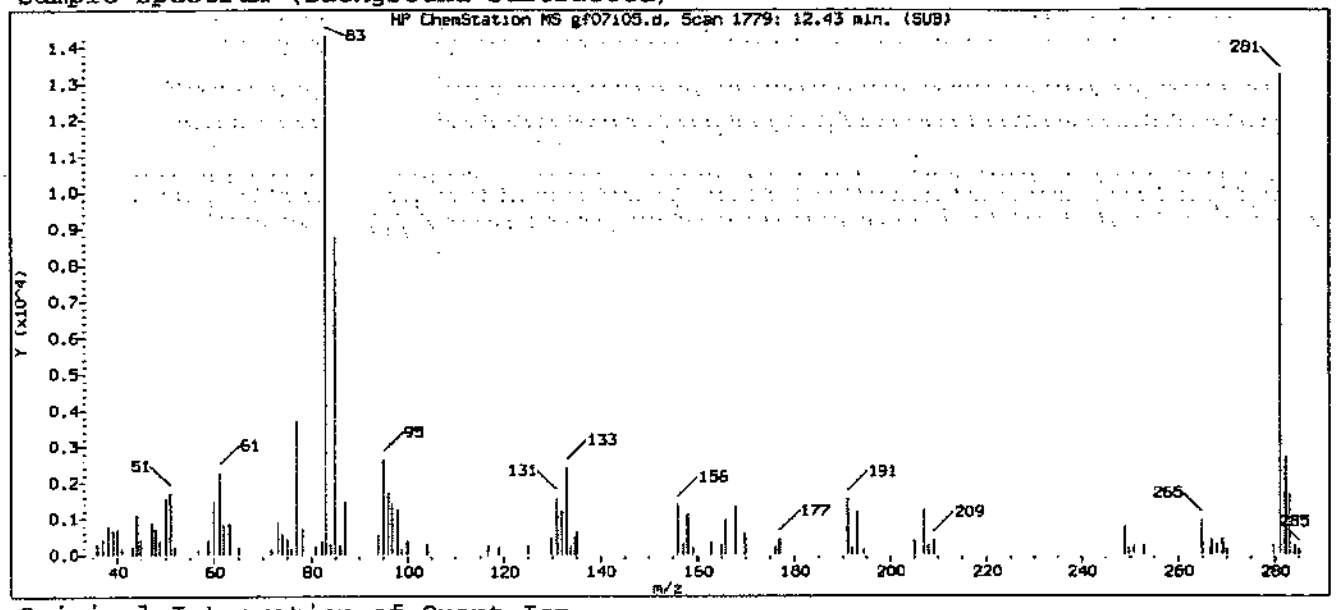
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1779
Retention Time (minutes): 12.432
Quant Ion : 83.00
Area (flag) : 24186M
On-Column Amount (ng) : 0.5081
Integration start scan : 1773 Integration stop scan: 1784
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

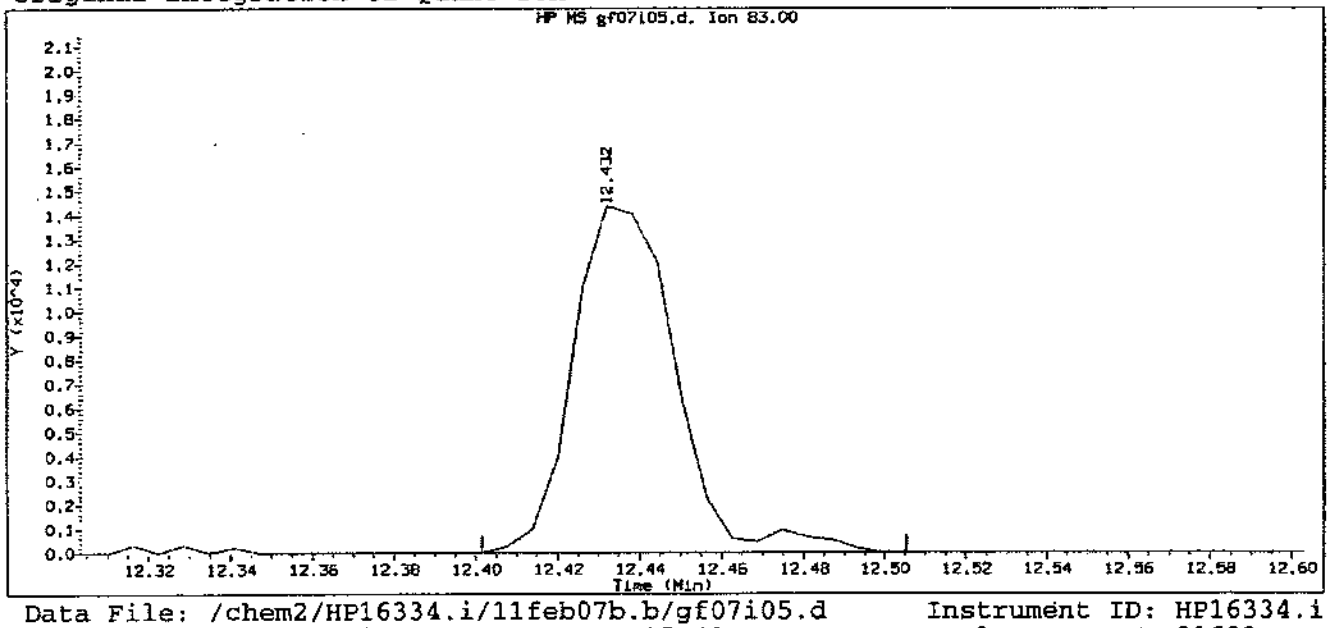
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 0281

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

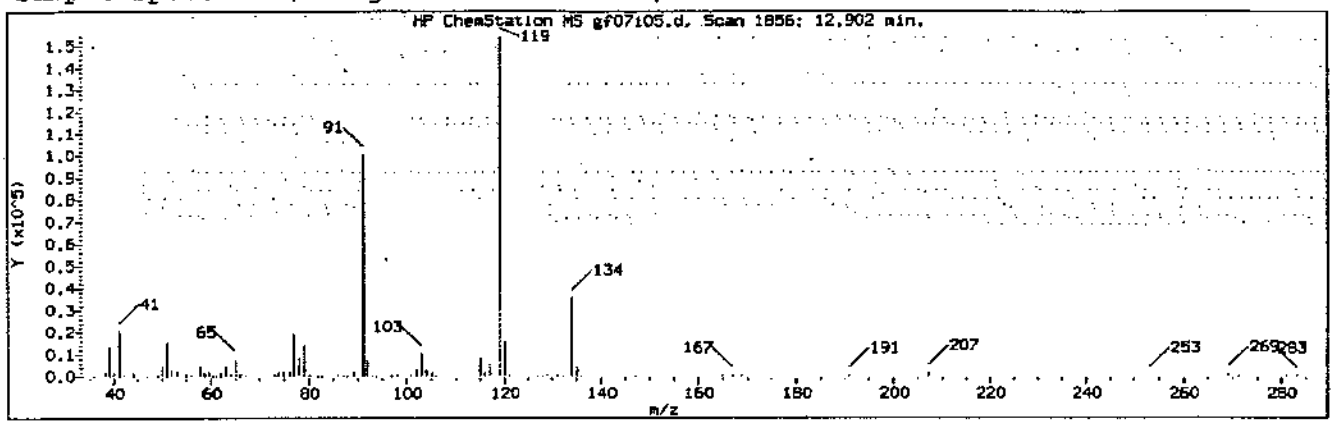
Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1779
Retention Time (minutes): 12.432
Quant Ion : 83.00
Area : 25003
On-column Amount (ng) : 0.5124
Integration start scan : 1773 Integration stop scan: 1790
Y at integration start : 0 Y at integration end: 0

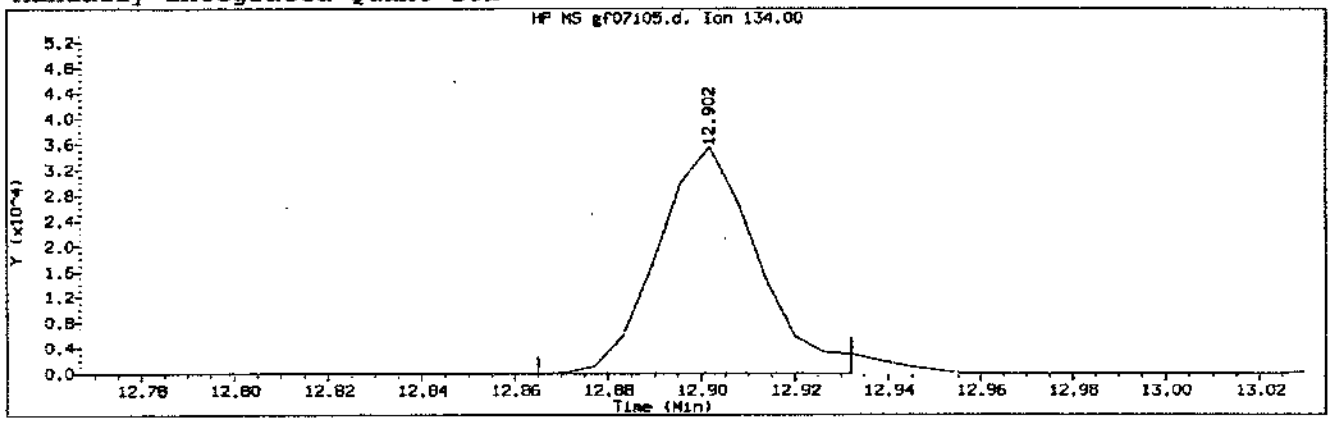
WAT13 2282

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:34
Date, time and analyst ID of latest file update: 08-Feb-2011 08:34 jml01693

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

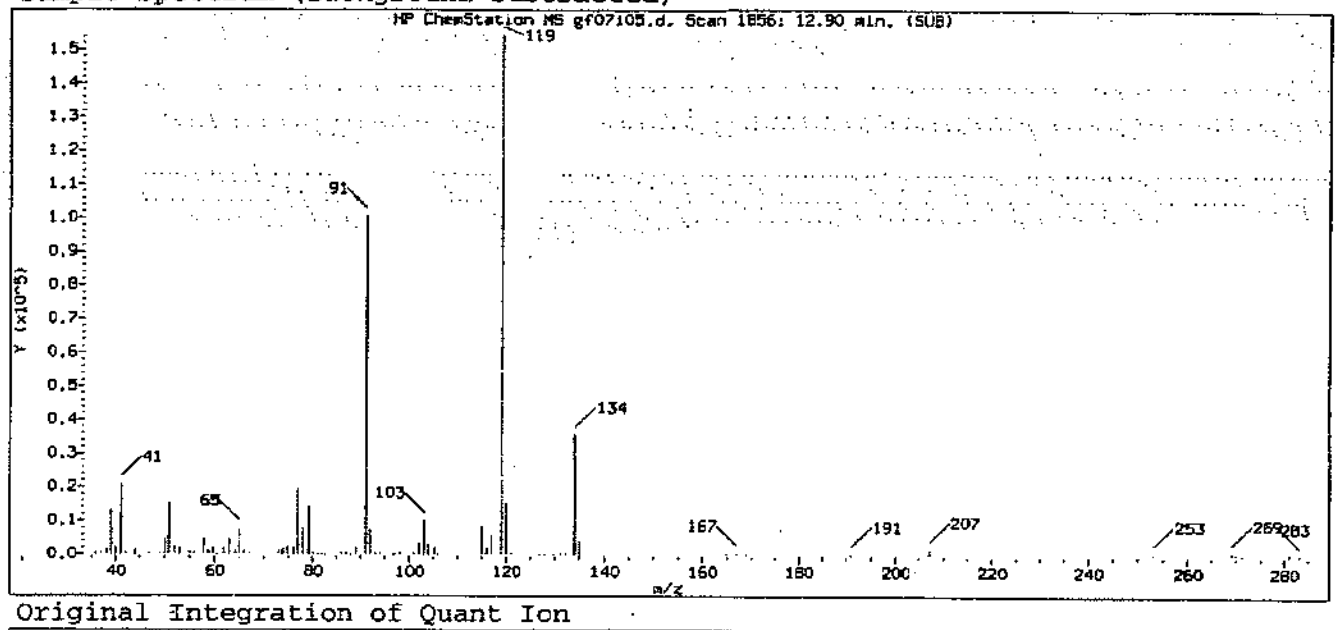
Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area (flag) : 52593M
On-Column Amount (ng) : 0.4829
Integration start scan : 1849 Integration stop scan: 1860
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

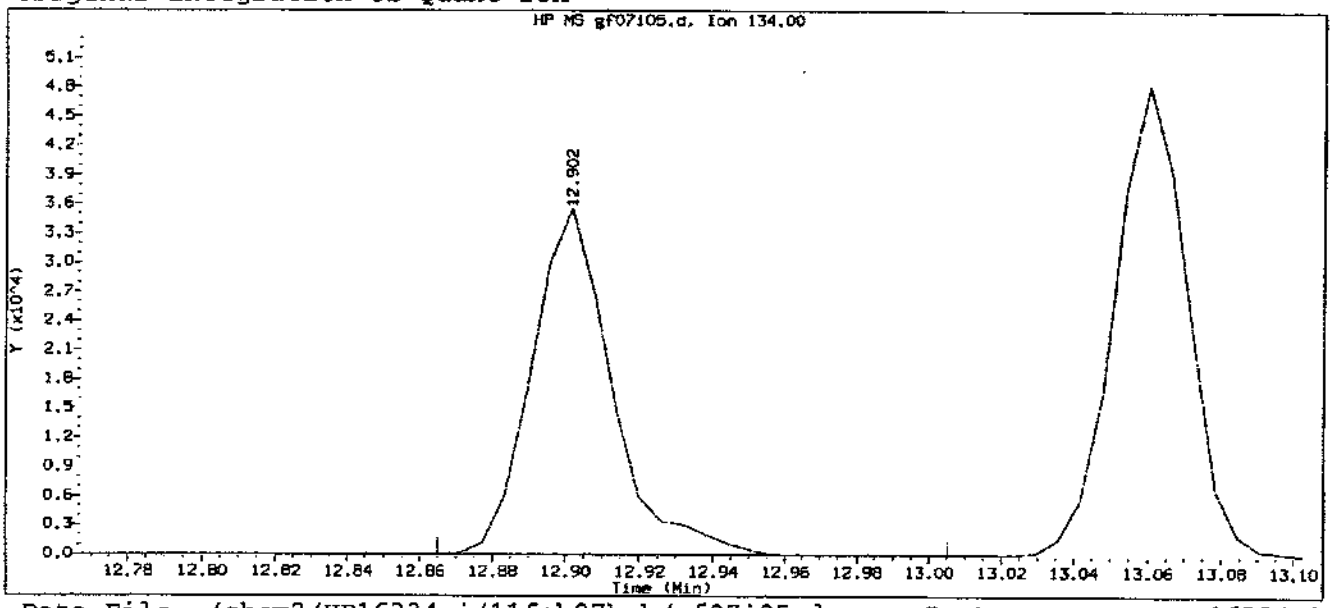
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8283

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07i05.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 15:49 Analyst ID: JML01693

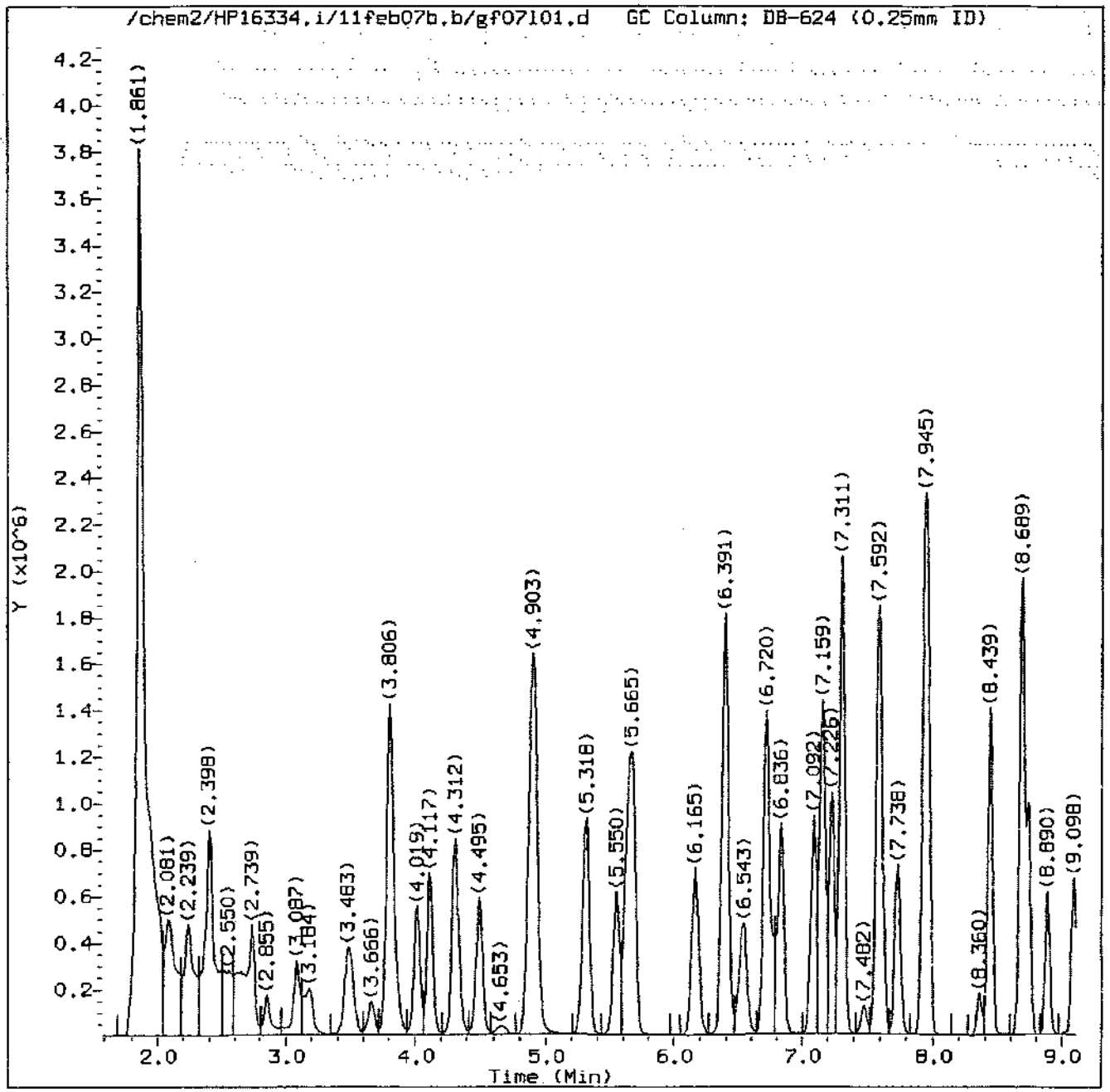
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 07-FEB-2011 16:07
Date, time and analyst ID of latest file update: 07-Feb-2011 16:07 Automation

Sample Name: VSTD0.5 Lab Sample ID: VSTD0.5

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 53947
On-column Amount (ng) : 0.4817
Integration start scan : 1849 Integration stop scan: 1872
Y at integration start : 0 Y at integration end: 0

WAT13 5284

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

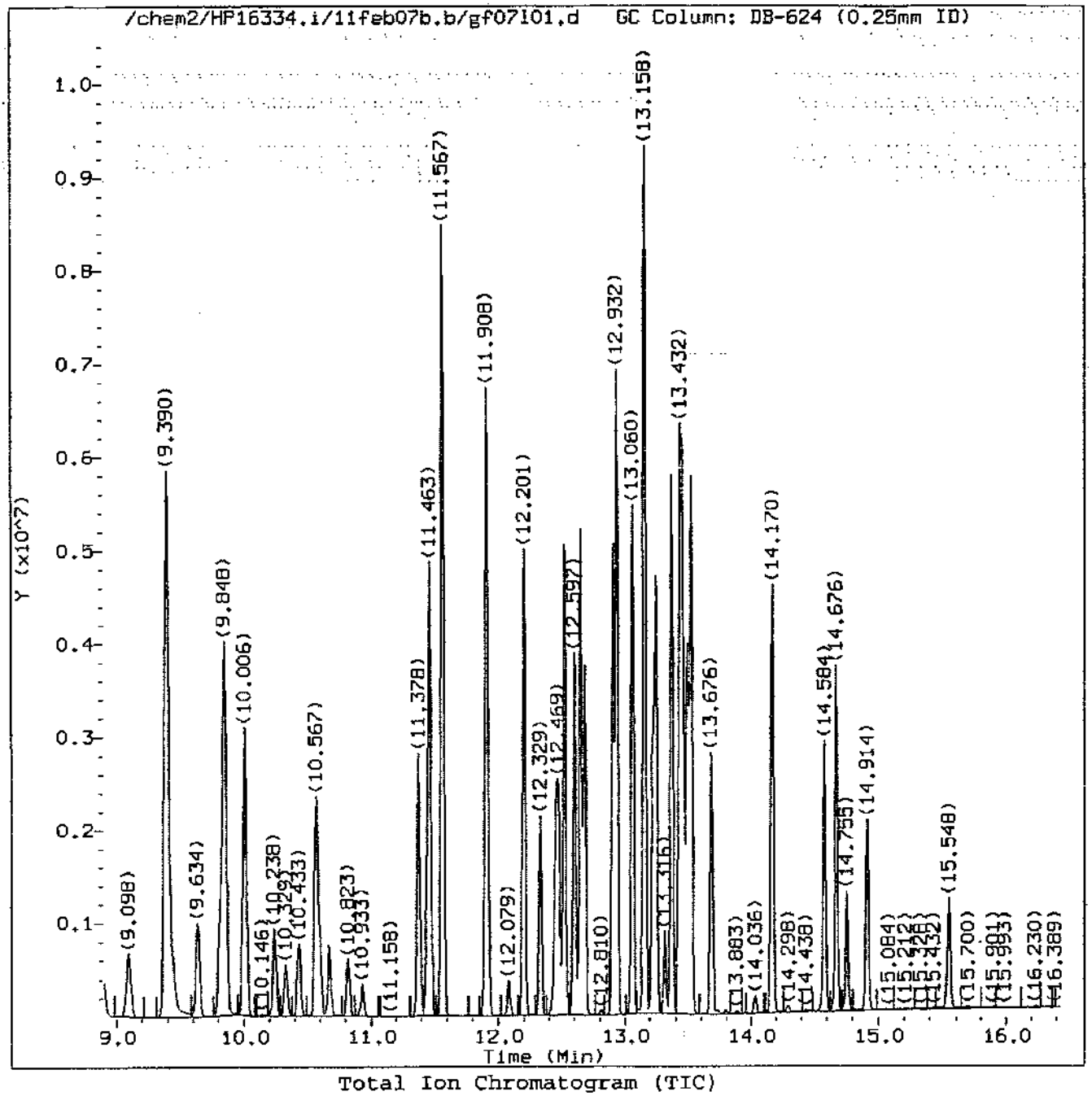
Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:09
Date, time and analyst ID of latest file update: 08-Feb-2011 20:12 sej02002

Sample Name: LFBG68 Lab Sample ID: LFBG68

WAT13 0285

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:13.
Target 3.5 esignature user ID: sej02002



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:09
Date, time and analyst ID of latest file update: 08-Feb-2011 20:12 sej02002

Sample Name: LFBG68 Lab Sample ID: LFBG68

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:13.
Target 3.5 esignature user ID: sej02002

WAT13 8286

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:09
Date, time and analyst ID of latest file update: 08-Feb-2011 20:12 sej02002

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.087	85	350648	1.738
2) Chloromethane	(1)	2.239	50	326209	1.942
3) Vinyl Chloride	(1)	2.386	62	300465	1.944
4) Bromomethane	(1)	2.745	94	198623	1.981
5) Chloroethane	(1)	2.855	64	168181	1.995
6) Dichlorofluoromethane	(1)	3.087	67	442562	2.241
7) Trichlorofluoromethane	(1)	3.184	101	433038	1.953
8) Ethyl Ether	(1)	3.471	59	238899	4.739
9) Acrolein	(1)	3.666	56	238507	39.130
10) 1,1-Dichloroethene	(1)	3.800	96	519831	5.190
11) Freon 113	(1)	3.812	101	589797	5.401
12) Acetone	(1)	3.861	58	89400	38.284
13) Methyl Iodide	(1)	4.013	142	1046405	5.479
14) Carbon Disulfide	(1)	4.111	76	1600012	5.776
15) Allyl Chloride	(1)	4.300	39	636390	5.189
17) Methylene Chloride	(1)	4.495	84	507009	5.059
18) t-Butyl Alcohol	(1)	4.659	59	118023	47.356
19) Acrylonitrile	(1)	4.873	53	1290314	111.303
21) Methyl Tertiary Butyl Ether	(1)	4.903	73	788270	5.122
20) trans-1,2-Dichloroethene	(1)	4.909	96	608842	5.142
22) 1,1-Dichloroethane	(1)	5.550	63	1075586	5.008
24) di-Isopropyl Ether	(1)	5.641	87	421126	5.084
25) Ethyl t-Butyl Ether	(1)	6.165	59	1164932	5.019
26) cis-1,2-Dichloroethene	(1)	6.385	96	597333	5.028
27) 2,2-Dichloropropane	(1)	6.391	77	1012825	5.074
28) 2-Butanone	(1)	6.409	43	488546M	38.561
29) Propionitrile	(1)	6.507	54	430673	100.140
30) Methyl Acrylate	(1)	6.543	55	869602	25.194
31) Methacrylonitrile	(1)	6.714	67	551272	37.711
32) Bromochloromethane	(1)	6.720	128	205060	5.027
33) Tetrahydrofuran	(1)	6.781	71	155058	45.836
34) Chloroform	(1)	6.836	83	1079645	5.062
35) 1,1,1-Trichloroethane	(1)	7.092	97	987876	5.000
36) 1-Chlorobutane	(1)	7.226	49	54852	4.924
37) Carbon Tetrachloride	(1)	7.311	117	900952	5.104
38) 1,1-Dichloropropene	(1)	7.311	75	875828	5.023
39) Benzene	(1)	7.592	78	2281893	5.030
40) 1,2-Dichloroethane	(1)	7.622	62	497110	4.939

M = Compound was manually integrated.

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:13.
Target 3.5 esignature user ID: sej02002

WAT13 8287

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:09
Date, time and analyst ID of latest file update: 08-Feb-2011 20:12 sej02002

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.732	73	900487	5.023
42)*Fluorobenzene	(1)	7.964	96	1870621	5.000
43) Trichloroethene	(1)	8.439	95	643587	4.919
44) 1,2-Dichloropropane	(1)	8.744	63	530597	4.987
45) Methyl Methacrylate	(1)	8.884	69	129037	4.863
46) Dibromomethane	(1)	8.896	93	194461	5.057
47) Bromodichloromethane	(1)	9.098	83	598961	5.016
48) 2-Nitropropane	(1)	9.390	46	179761	513.146
49) Chloroacetonitrile	(1)	9.439	75	419151	244.085
50) cis-1,3-Dichloropropene	(1)	9.634	75	666990	4.958
51) 4-Methyl-2-Pentanone	(1)	9.811	58	308500	25.621
52) 1,1-Dichloropropanone	(1)	9.848	83	309485	492.355
53) Toluene	(1)	10.006	92	1479840	4.995
55) trans-1,3-Dichloropropene	(1)	10.244	75	520509	4.987
56) Ethyl Methacrylate	(1)	10.329	69	292809	5.138
57) 1,1,2-Trichloroethane	(1)	10.433	83	216188	4.964
58) Tetrachloroethene	(1)	10.567	166	772406	4.929
59) 1,3-Dichloropropane	(1)	10.597	76	450676	4.969
60) 2-Hexanone	(1)	10.671	58	265379	25.138
61) Dibromochloromethane	(1)	10.823	129	331762	4.999
62) 1,2-Dibromoethane	(1)	10.933	107	235106	4.981
64) Chlorobenzene	(1)	11.378	112	1521644	4.936
65) 1,1,1,2-Tetrachloroethane	(1)	11.445	131	512076	5.003
66) Ethylbenzene	(1)	11.463	106	919478	5.025
67) m+p-Xylene	(1)	11.567	106	2247462	10.026
70) Xylene (Total)	(1)		106	3299938	14.947
68) o-Xylene	(1)	11.902	106	1052476	4.922
69) Styrene	(1)	11.914	104	1578248	5.016
71) Bromoform	(1)	12.079	173	173910	4.974
72) Isopropylbenzene	(1)	12.201	120	791752	5.001
73)$4-Bromofluorobenzene	(1)	12.329	174	573649	5.036
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	238493M	4.878
75) Bromobenzene	(1)	12.457	156	589559	5.078
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	297608	24.172
76) 1,2,3-Trichloropropane	(1)	12.475	110	69943	4.841
78) n-Propylbenzene	(1)	12.524	120	842113	4.962
79) 2-Chlorotoluene	(1)	12.597	126	686989	4.970
80) 1,3,5-Trimethylbenzene	(1)	12.646	105	2568668	5.021

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

WAT13 8288

Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:13.
Target 3.5 esignature user ID: sej02002

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 20:09
Date, time and analyst ID of latest file update: 08-Feb-2011 20:12 sej02002

Sample Name: LFBG68 Lab Sample ID: LFBG68

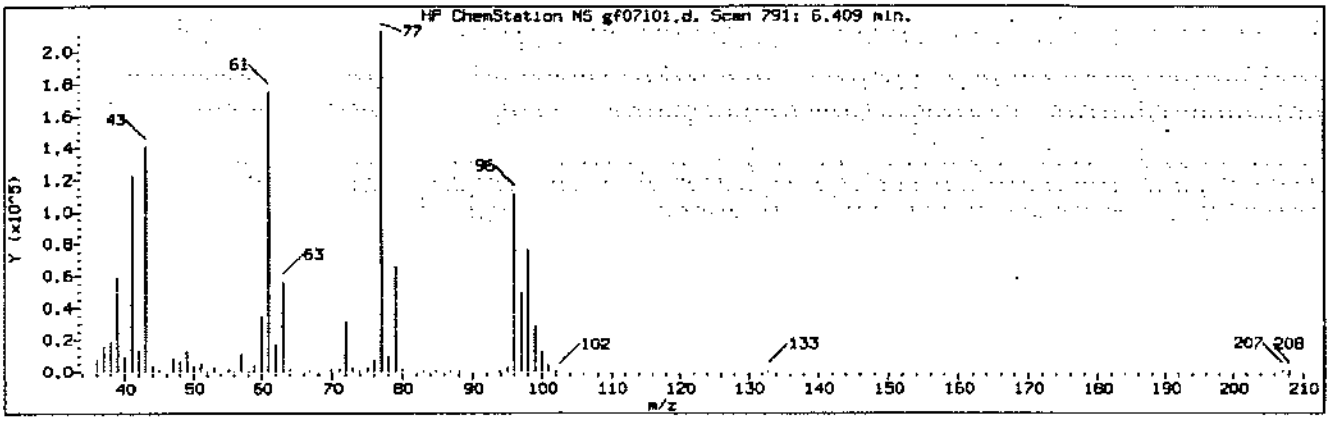
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.682	126	688970	5.060
82) tert-Butylbenzene	(1)	12.902	134	556913M	4.979
84) 1,2,4-Trimethylbenzene	(1)	12.932	105	2620044	5.015
83) Pentachloroethane	(1)	12.932	167	365713	5.069
85) sec-Butylbenzene	(1)	13.060	134	675024	4.926
87) 1,3-Dichlorobenzene	(1)	13.158	146	1282532	4.863
86) p-Isopropyltoluene	(1)	13.158	119	2995331	5.089
88) 1,4-Dichlorobenzene	(1)	13.219	146	1238091	4.943
89) n-Butylbenzene	(1)	13.450	92	1545801	4.951
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	618742	5.088
91) 1,2-Dichlorobenzene	(1)	13.493	146	1015965	4.874
92) Hexachloroethane	(1)	13.682	201	465246	4.914
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036	157	45226	4.746
94) Nitrobenzene	(1)	14.176	77	457125M	234.880
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	846538	4.882
96) Hexachlorobutadiene	(1)	14.676	225	677721	4.839
97) Naphthalene	(1)	14.755	128	914004	4.872
98) 1,2,3-Trichlorobenzene	(1)	14.914	180	611680	4.838

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

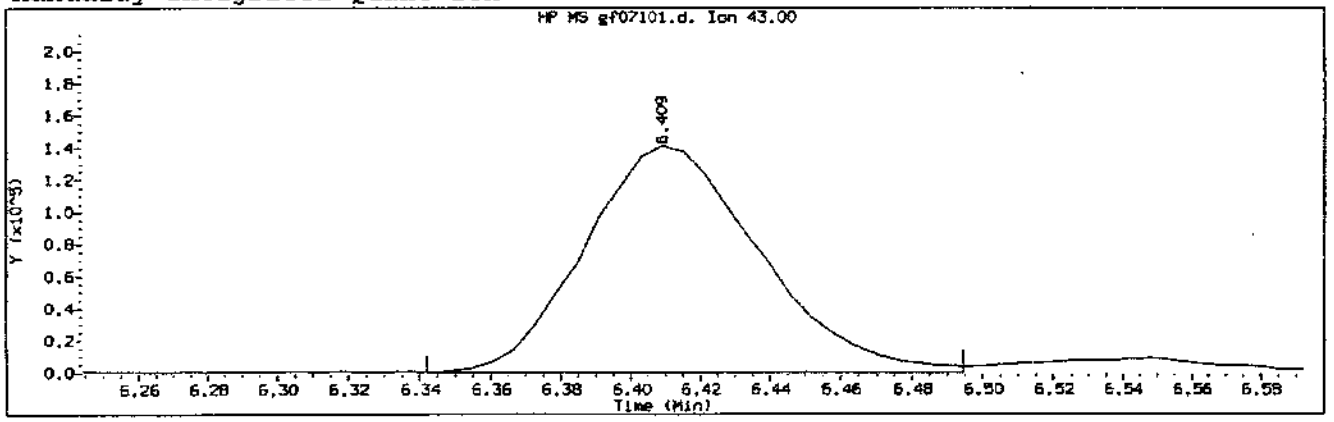
Digitally signed by Sara E. Johnson
on 02/08/2011 at 20:13.
Target 3.5 esignature user ID: sej02002

WAT13 8289

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compound Number	: 28		
Compound Name	: 2-Butanone		
Scan Number	: 791		
Retention Time (minutes)	: 6.409		
Quant Ion	: 43.00		
Area (flag)	: 488546M		
On-Column Amount (ng)	: 38.5607		
Integration start scan	: 779	Integration stop scan:	804
Y at integration start	: 0	Y at integration end:	0

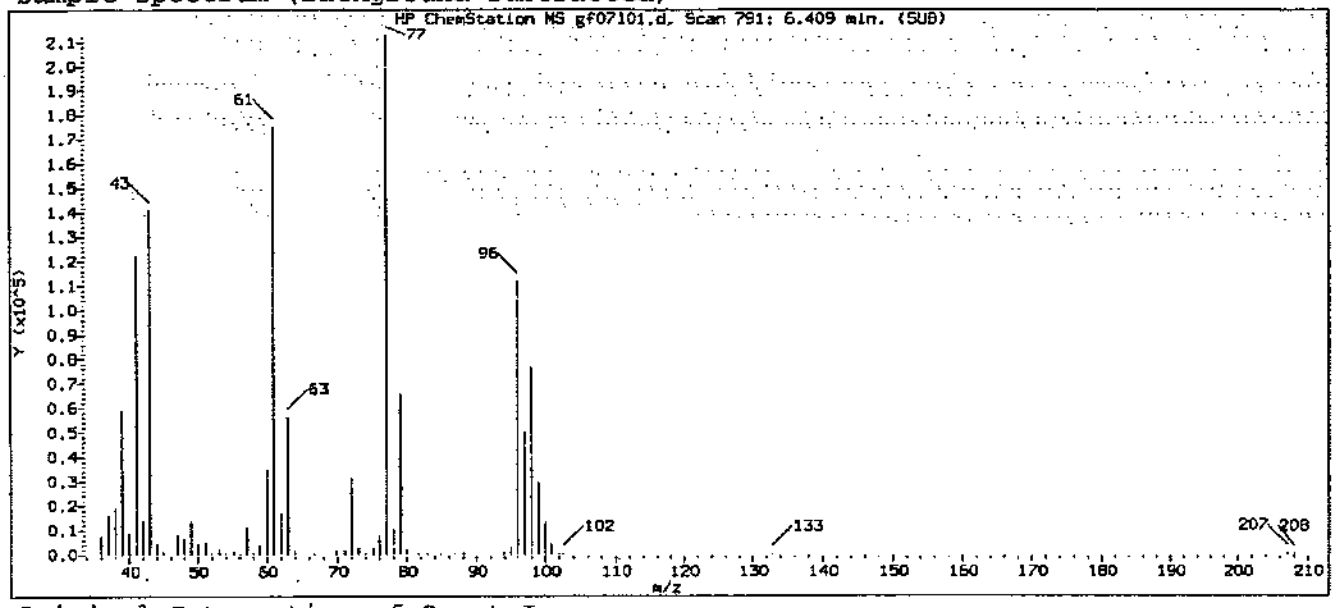
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

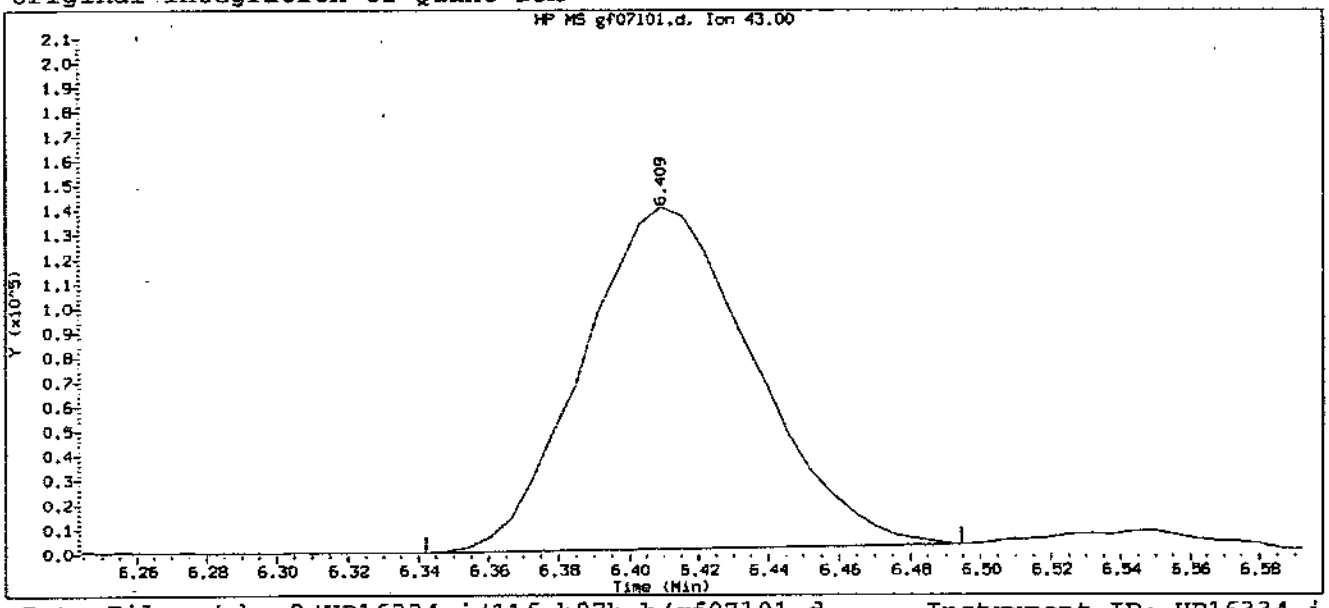
GC/MS audit/management approval: 2/8/11

WATI3 9218

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 06:41
Date, time and analyst ID of latest file update: 08-Feb-2011 06:41 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 791
Retention Time (minutes): 6.409
Quant Ion : 43.00
Area : 469575
On-column Amount (ng) : 37.0634
Integration start scan : 779 Integration stop scan: 804
Y at integration start : 366 Y at integration end: 3614

WAT13 8211

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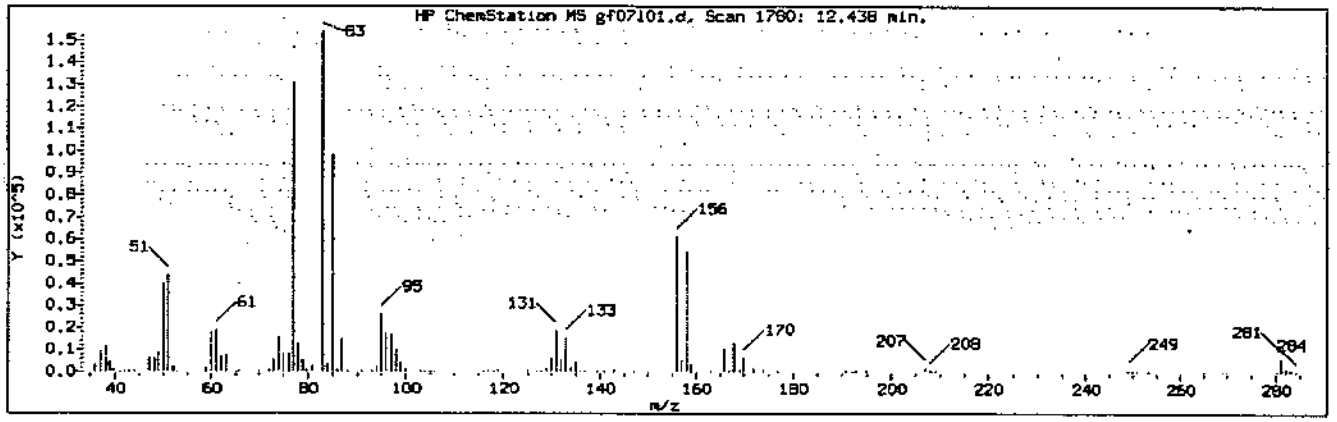
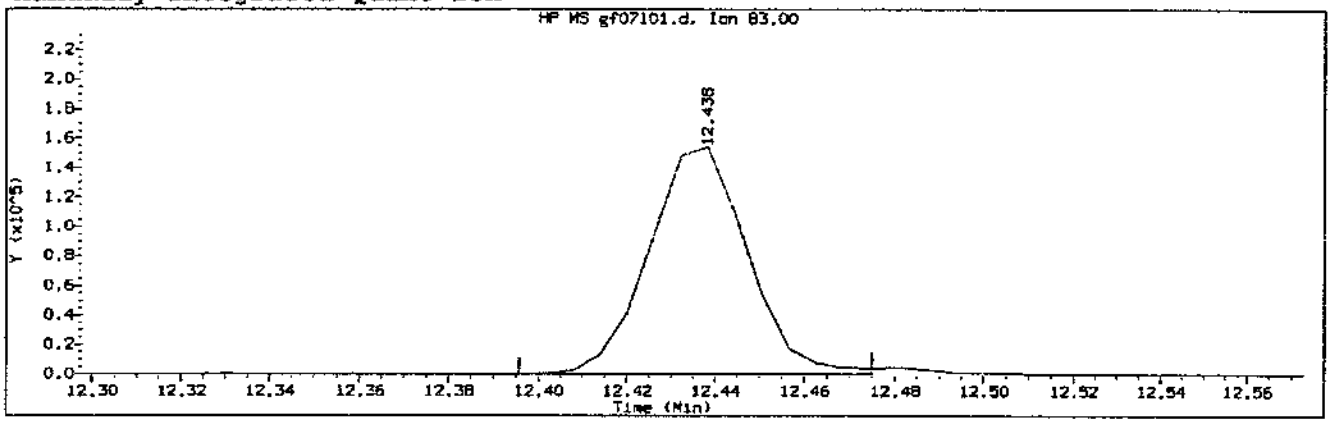
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

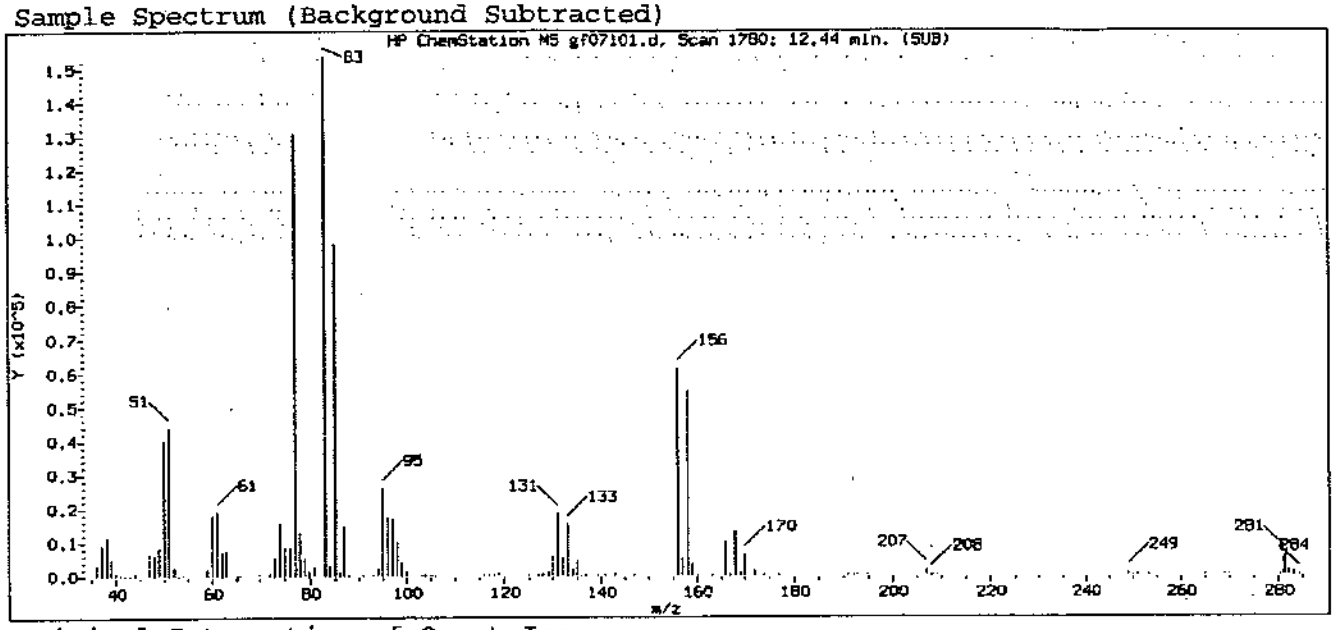
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area (flag) : 238493M
On-Column Amount (ng) : 4.8784
Integration start scan : 1772 Integration stop scan: 1785
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

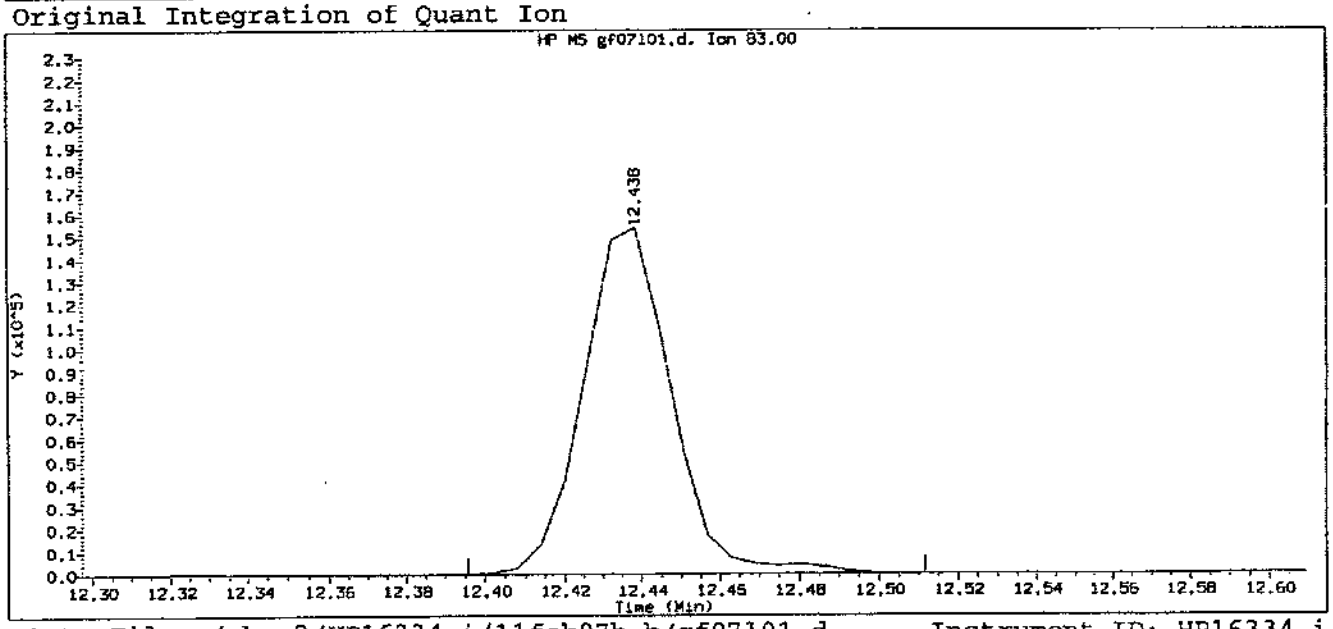
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 NAT13 5212

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 06:41
Date, time and analyst ID of latest file update: 08-Feb-2011 06:41 jml01693

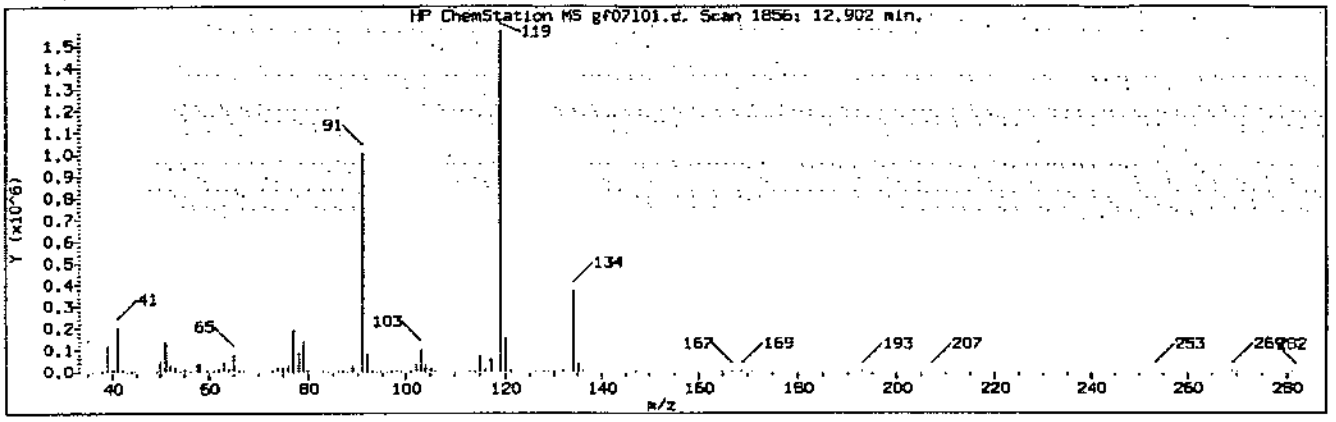
Sample Name: LFBG68 Lab Sample ID: LFBG68

Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 241856
On-column Amount (ng) : 4.9472
Integration start scan : 1772 Integration stop scan: 1791
Y at integration start : 0 Y at integration end: 0

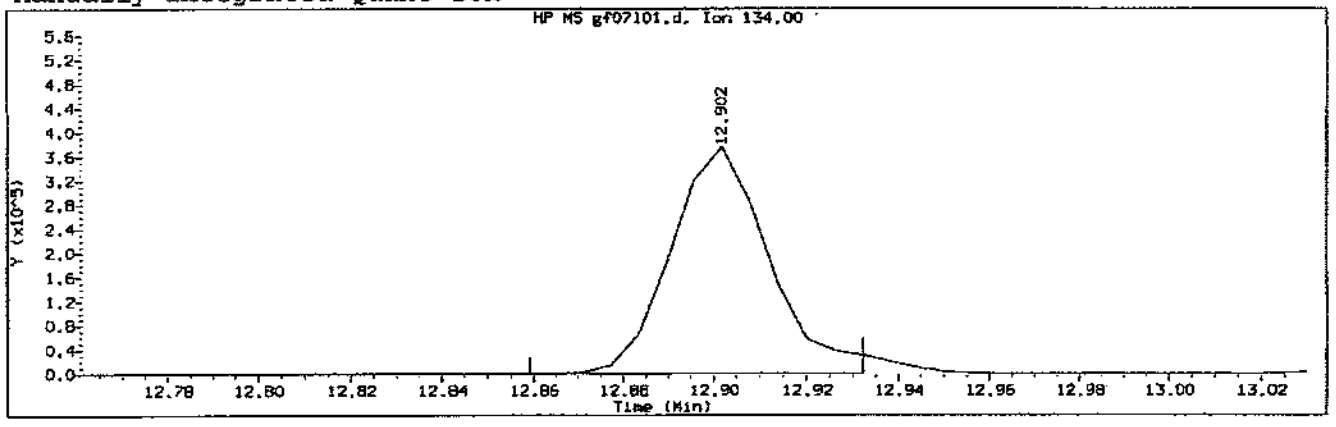
WAT13 6213

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

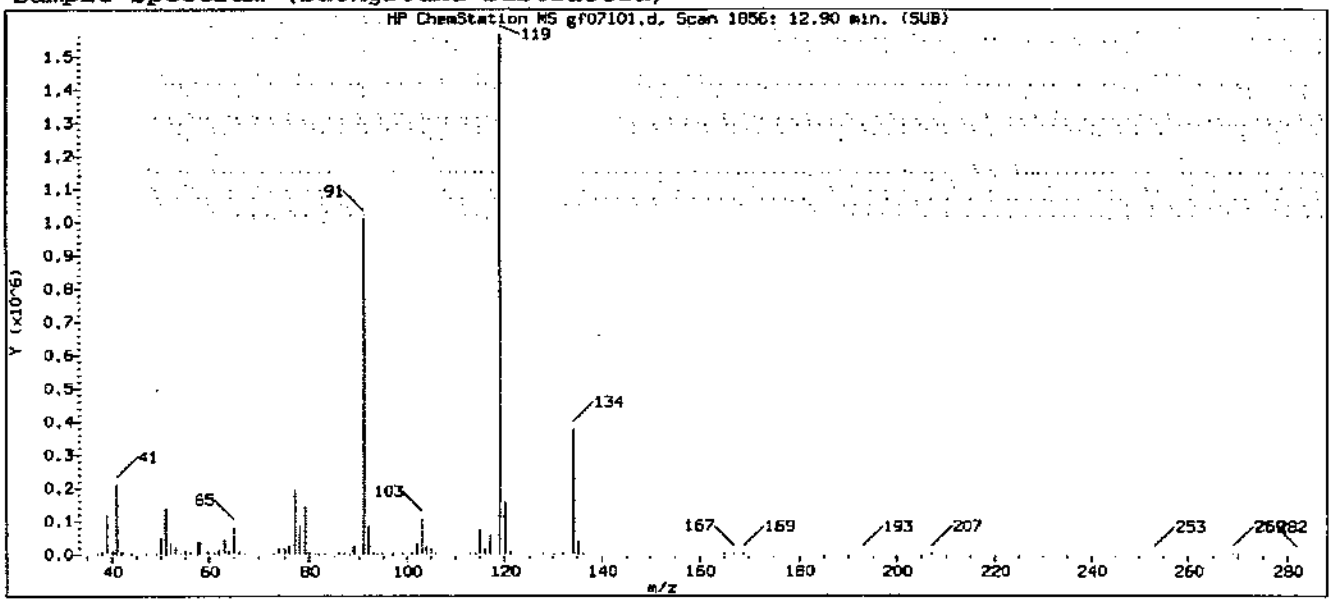
Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area (flag) : 556913M
On-Column Amount (ng) : 4.9789
Integration start scan : 1848 Integration stop scan: 1860
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

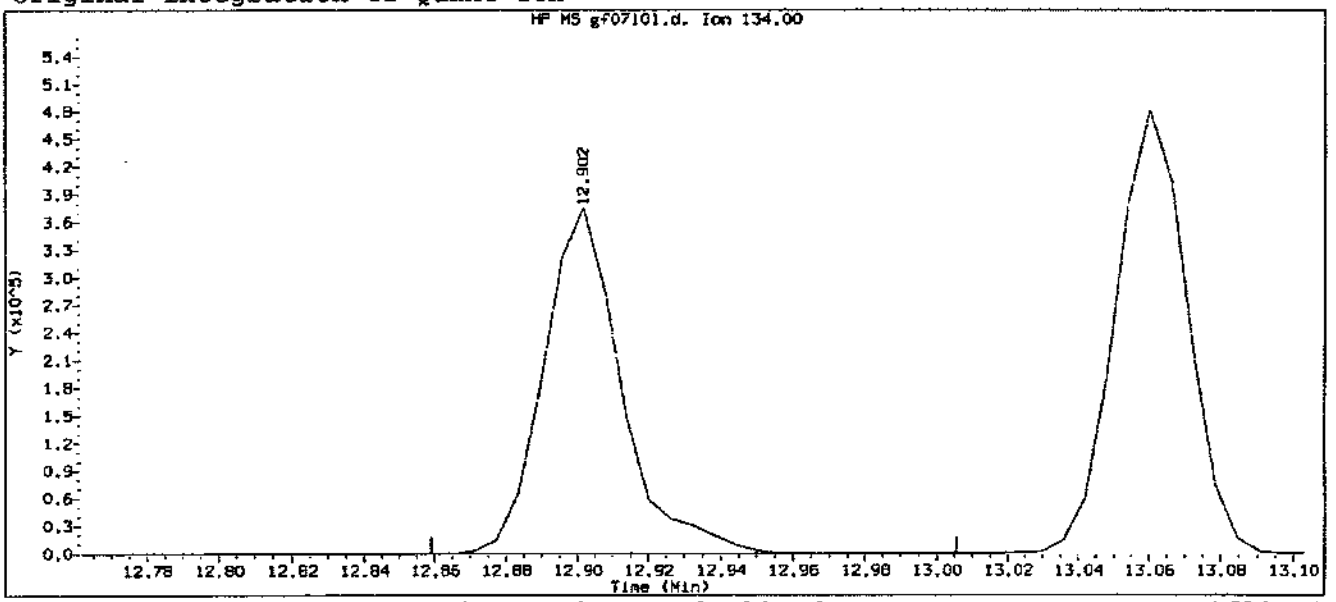
Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: 2/8/11 WAT13 8214

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

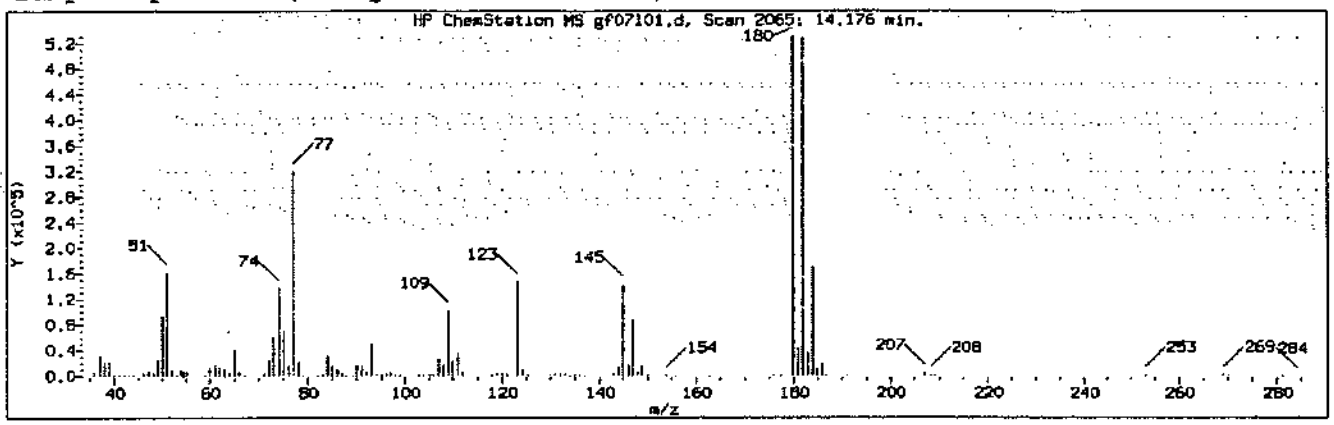
Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 06:41
Date, time and analyst ID of latest file update: 08-Feb-2011 06:41 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

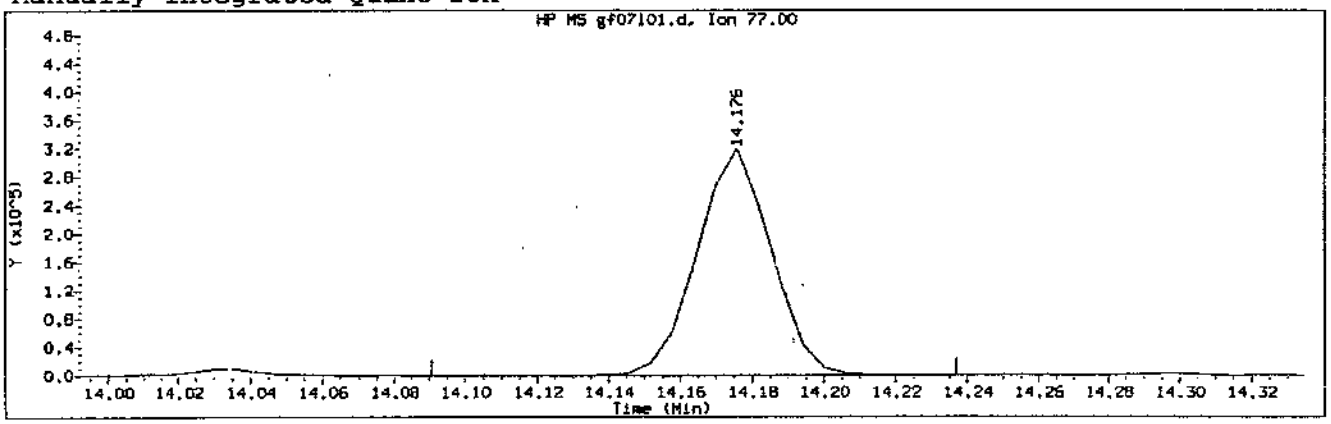
Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 568975
On-column Amount (ng) : 5.0868
Integration start scan : 1848 Integration stop scan: 1872
Y at integration start : 0 Y at integration end: 0 WAT13 8215

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 08:33
Date, time and analyst ID of latest file update: 08-Feb-2011 08:33 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area (flag) : 457125M
On-Column Amount (ng) : 234.8797
Integration start scan : 2050 Integration stop scan: 2074
Y at integration start : 0 Y at integration end: 0

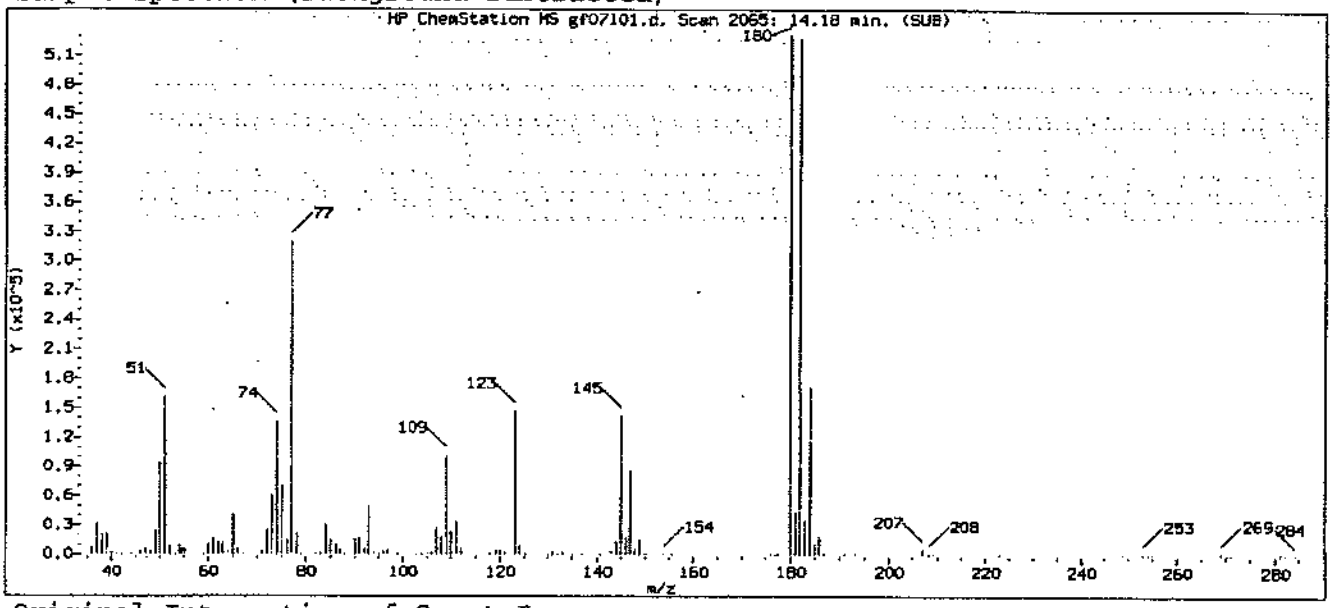
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 02/08/2011 at 08:34. Target 3.5 esignature user ID: jml01693

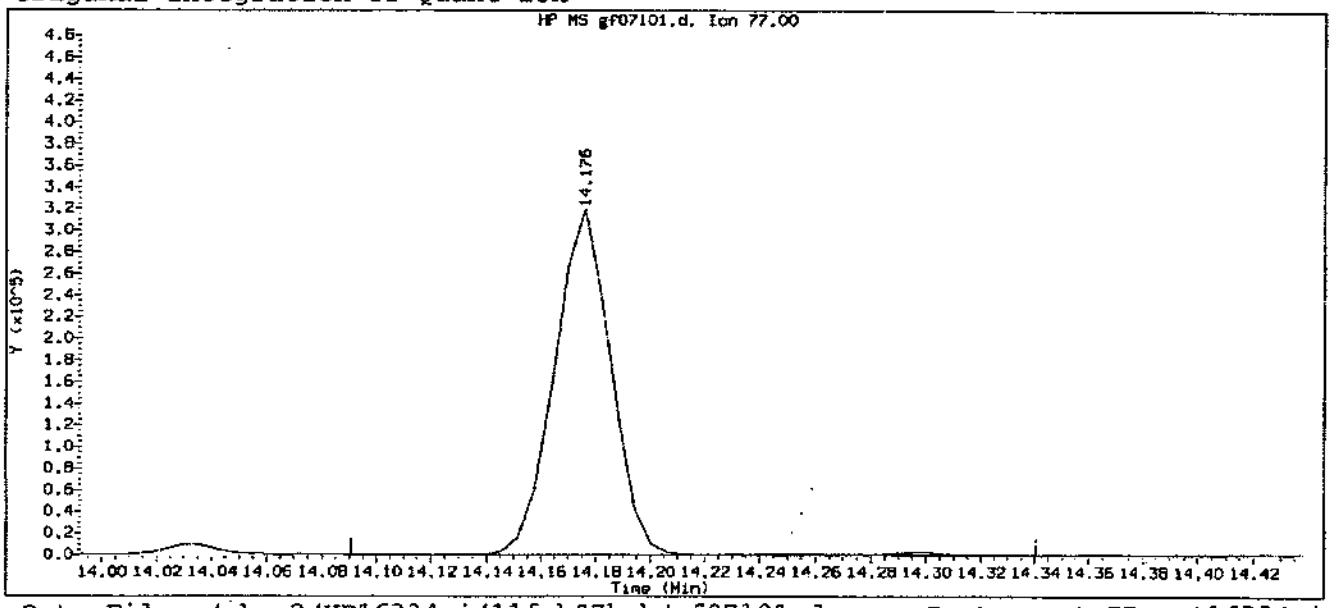
GC/MS audit/management approval: 2/8/11

WAT13 0216

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11feb07b.b/gf07101.d Instrument ID: HP16334.i
Injection date and time: 07-FEB-2011 16:11 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11feb07b.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 08-FEB-2011 06:41
Date, time and analyst ID of latest file update: 08-Feb-2011 06:41 jml01693

Sample Name: LFBG68 Lab Sample ID: LFBG68

Compound Number : 94
Compound Name : Nitrobenzene
Scan Number : 2065
Retention Time (minutes): 14.176
Quant Ion : 77.00
Area : 462449
On-column Amount (ng) : 237.6157
Integration start scan : 2050 Integration stop scan: 2091
Y at integration start : 0 Y at integration end: 0

WATI3 8217

Digitally signed by Jason M. Long on 02/08/2011 at 08:34.
Target 3.5 esignature user ID: jml01693

Data File: /chem2/HP16334.i/11mar23a.b/gm23t01.d

Date : 23-MAR-2011 08:57

Client ID: 25ngBFB

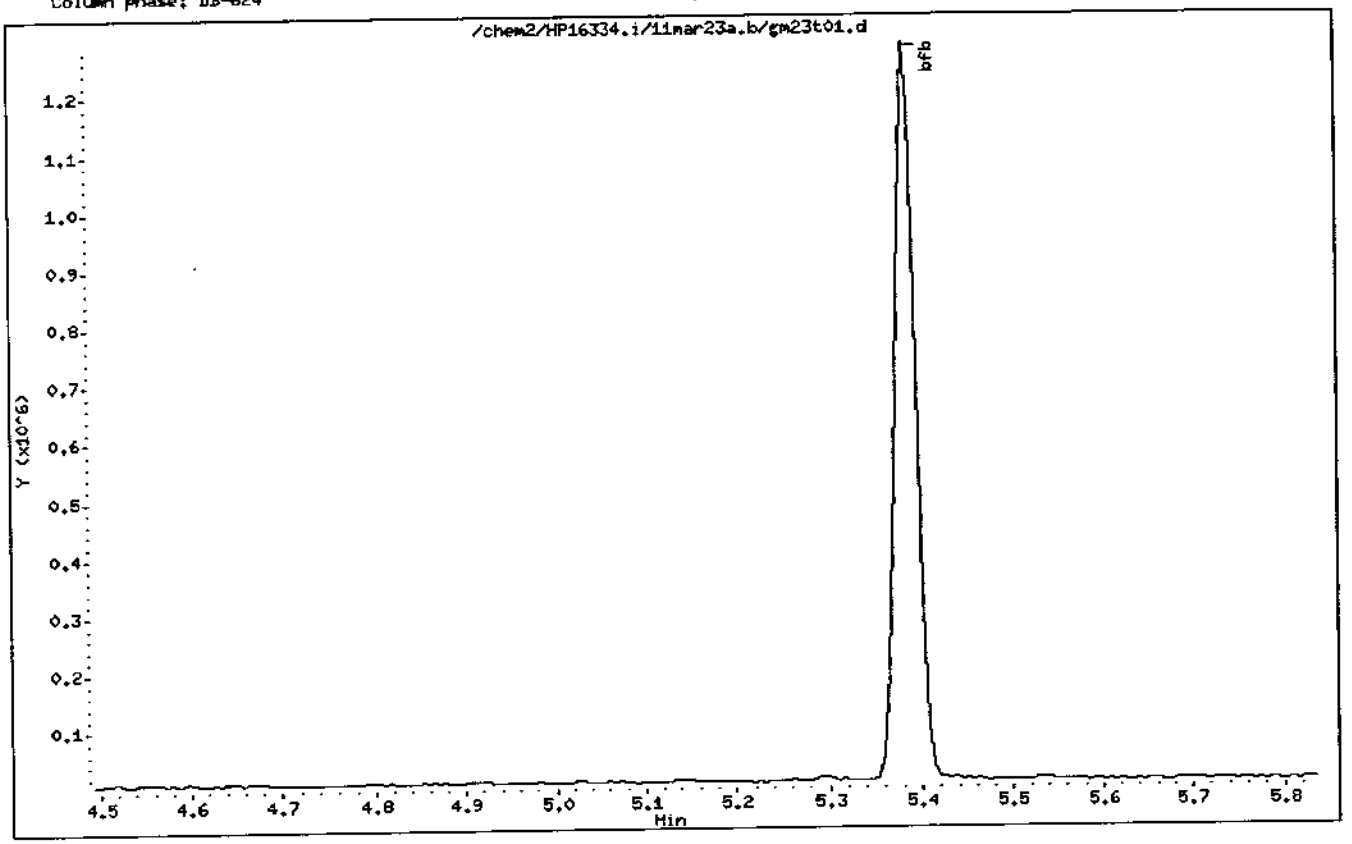
Instrument: HP16334.i

Sample Info: 25ngBFB;BFB OCT13-10;1;3;;

Operator: JHL01693

Column phase: DB-624

Column diameter: 0.25



Digitally signed by Jason M. Long on 03/23/2011 at 09:01.
Target 3.5 esignature user ID: jml01693

WAT13 0218

Data File: /chem2/HP16334.i/11mar23a.b/gm23t01.d

Date : 23-MAR-2011 08:57

Client ID: 25ngBFB

Instrument: HP16334.i

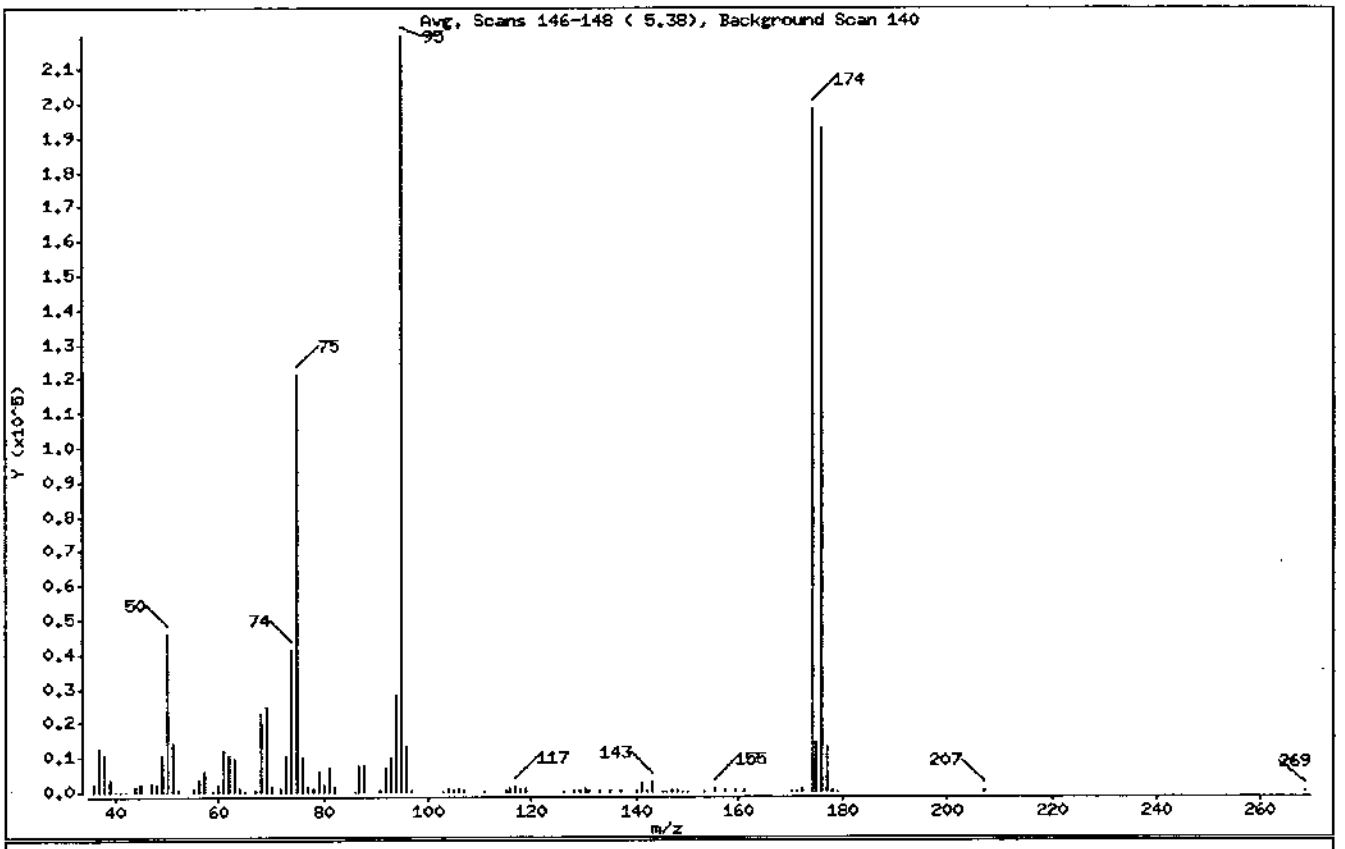
Sample Info: 25ngBFB;BFB OCT13-10;1;3;;

Operator: JML01693

Column phase: DB-624

Column diameter: 0.25

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	20.83
75	30.00 - 80.00% of mass 95	55.25
96	5.00 - 9.00% of mass 95	5.88
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	90.26
175	5.00 - 9.00% of mass 174	6.41 (7.11)
176	95.00 - 101.00% of mass 174	87.87 (97.35)
177	5.00 - 9.00% of mass 176	5.92 (6.73)

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Target 3.5 esignature user ID: jml01693

Data File: /chem2/HP16334.i/11mar23a.b/gm23t01.d

Date : 23-MAR-2011 08:57

Client ID: 25ngBFB

Instrument: HP16334.i

Sample Info: 25ngBFB;BFB OCT13-10;1;3;;

Operator: JHL01693

Column phase: DB-624

Column diameter: 0.25

Data File: gm23t01.d

Spectrum: Avg. Scans 146-148 (5.38), Background Scan 140

Location of Maximum: 95.00

Number of points: 95

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2258	65.00	130	96.00	12922	143.00	3049
37.00	12805	67.00	646	97.00	338	145.00	180
38.00	10761	68.00	22480	103.00	196	146.00	249
39.00	3579	69.00	24512	104.00	937	147.00	264
40.00	151	70.00	1586	105.00	386	148.00	663
41.00	90	72.00	1103	106.00	1001	149.00	126
42.00	106	73.00	10810	107.00	261	150.00	202
44.00	1266	74.00	41472	111.00	191	153.00	86
45.00	2209	75.00	121360	115.00	441	155.00	790
47.00	2642	76.00	10162	116.00	985	157.00	531
48.00	1768	77.00	1627	117.00	1428	159.00	364
49.00	10430	78.00	914	118.00	1048	161.00	388
50.00	45760	79.00	6071	119.00	858	170.00	119
51.00	14174	80.00	1810	126.00	99	171.00	198
52.00	664	81.00	7116	128.00	722	172.00	908
55.00	869	82.00	1383	129.00	481	174.00	198272
56.00	3570	86.00	103	130.00	1014	175.00	14088
57.00	6149	87.00	7465	131.00	522	176.00	193024
59.00	201	88.00	7798	133.00	296	177.00	12995
60.00	2092	91.00	735	135.00	345	178.00	389
61.00	12284	92.00	6899	137.00	385	179.00	84
62.00	10827	93.00	10216	140.00	310	207.00	258
63.00	9779	94.00	28144	141.00	2748	269.00	236
64.00	906	95.00	219648	142.00	408		

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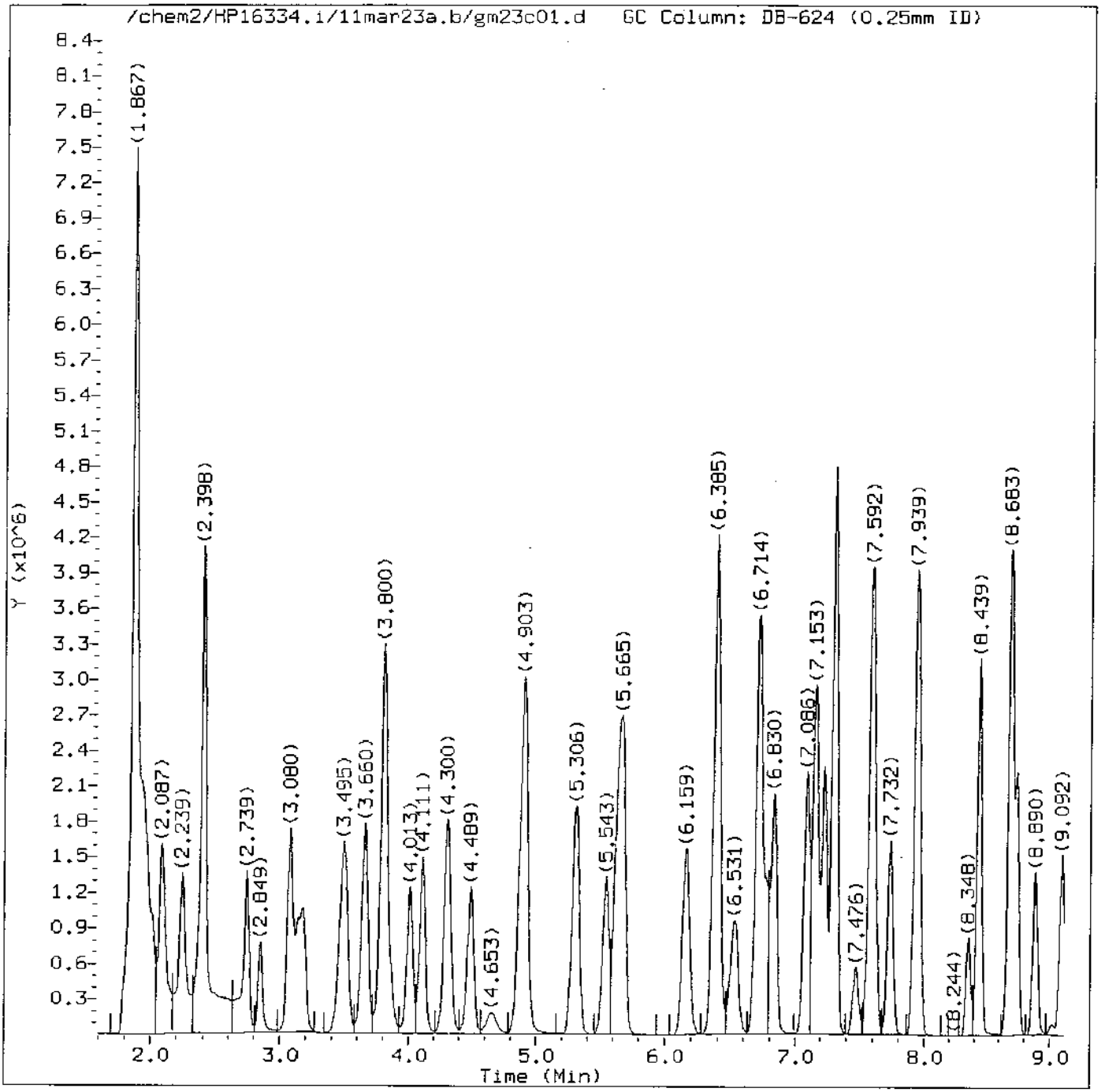
Target 3.5 esignature user ID: jml01693

WAT13 6228



Total Ion Chromatogram (TIC)

Target Revision 3.5

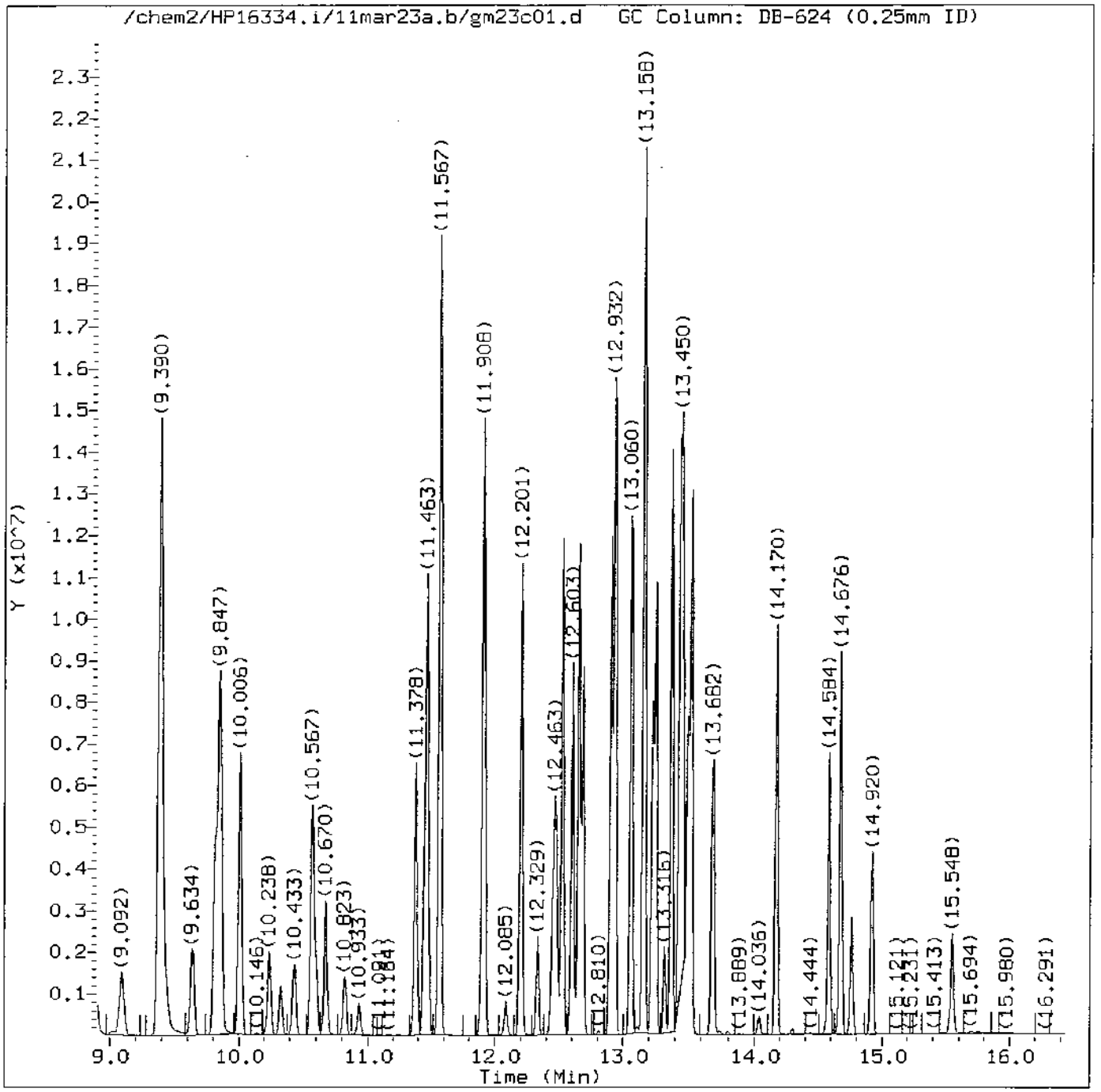
Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

WAT13 8221

Digitally signed by Jason M. Long
on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

WAT13 0222

Digitally signed by Jason M. Long
on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

	Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1)	Dichlorodifluoromethane	(1)	2.087	85	1986970	9.305
2)	Chloromethane	(1)	2.239	50	1554666	8.744
3)	Vinyl Chloride	(1)	2.392	62	1536107	9.391
4)	Bromomethane	(1)	2.739	94	1059287	9.980
5)	Chloroethane	(1)	2.849	64	860864	9.646
6)	Dichlorofluoromethane	(1)	3.080	67	2547092	12.185
7)	Trichlorofluoromethane	(1)	3.172	101	2590519	11.035
8)	Ethyl Ether	(1)	3.471	59	510977	9.577
9)	Acrolein	(1)	3.660	56	2887876	447.621
10)	1,1-Dichloroethene	(1)	3.794	96	1113735	10.505
11)	Freon 113	(1)	3.806	101	1270737	10.994
12)	Acetone	(1)	3.861	58	237770	96.197
13)	Methyl Iodide	(1)	4.007	142	2169117	10.730
14)	Carbon Disulfide	(1)	4.111	76	3393094	11.573
15)	Allyl Chloride	(1)	4.300	39	1449838	11.169
17)	Methylene Chloride	(1)	4.489	84	1067549	10.065
18)	t-Butyl Alcohol	(1)	4.653	59	561518	212.865
19)	Acrylonitrile	(1)	4.873	53	1432190	116.719
20)	trans-1,2-Dichloroethene	(1)	4.903	96	1304397	10.408
21)	Methyl Tertiary Butyl Ether	(1)	4.903	73	1706057	10.474
22)	1,1-Dichloroethane	(1)	5.543	63	2304044	10.134
24)	di-Isopropyl Ether	(1)	5.629	87	868927M	9.911
25)	Ethyl t-Butyl Ether	(1)	6.159	59	2528661	10.293
26)	cis-1,2-Dichloroethene	(1)	6.385	96	1272260	10.117
27)	2,2-Dichloropropane	(1)	6.385	77	2308443	10.927
28)	2-Butanone	(1)	6.397	43	1339989M	99.924
29)	Propionitrile	(1)	6.507	54	835890	183.628
30)	Methyl Acrylate	(1)	6.531	55	1743514	47.723
31)	Methacrylonitrile	(1)	6.714	67	1466688	94.792
32)	Bromochloromethane	(1)	6.720	128	445814	10.325
33)	Tetrahydrofuran	(1)	6.775	71	493815	137.914
34)	Chloroform	(1)	6.836	83	2420018	10.720
35)	1,1,1-Trichloroethane	(1)	7.086	97	2371594	11.341
36)	1-Chlorobutane	(1)	7.226	49	133659	11.337
37)	Carbon Tetrachloride	(1)	7.305	117	2185194	11.697
38)	1,1-Dichloropropene	(1)	7.305	75	1928490	10.449
39)	Benzene	(1)	7.586	78	4775614	9.946
40)	1,2-Dichloroethane	(1)	7.616	62	1183278	11.108

M = Compound was manually integrated.

WAT13 0223

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on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d
Injection date and time: 23-MAR-2011 09:05

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:31

Sublist used: REV4+ACRO

Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010

Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
41) t-Amyl Methyl Ether	(1)	7.732	73	1912729	10.080
42)*Fluorobenzene	(1)	7.958	96	1979966	5.000
43) Trichloroethene	(1)	8.439	95	1445604	10.439
44) 1,2-Dichloropropane	(1)	8.738	63	1075394	9.550
45) Methyl Methacrylate	(1)	8.884	69	265420	9.451
46) Dibromomethane	(1)	8.890	93	424969	10.440
47) Bromodichloromethane	(1)	9.098	83	1351335	10.692
48) 2-Nitropropane	(1)	9.390	46	469763	1266.928
49) Chloroacetonitrile	(1)	9.439	75	868481	477.814
50) cis-1,3-Dichloropropene	(1)	9.634	75	1364547	9.584
51) 4-Methyl-2-Pentanone	(1)	9.811	58	1234406	96.857
52) 1,1-Dichloropropanone	(1)	9.847	83	690965	1038.540
53) Toluene	(1)	10.006	92	3165274	10.095
55) trans-1,3-Dichloropropene	(1)	10.244	75	1092329	9.887
56) Ethyl Methacrylate	(1)	10.329	69	605160	10.033
57) 1,1,2-Trichloroethane	(1)	10.433	83	452849	9.823
58) Tetrachloroethene	(1)	10.573	166	1770341	10.674
59) 1,3-Dichloropropane	(1)	10.597	76	939408	9.785
60) 2-Hexanone	(1)	10.670	58	1095162	98.008
61) Dibromochloromethane	(1)	10.823	129	754467	10.741
62) 1,2-Dibromoethane	(1)	10.933	107	505217	10.112
64) Chlorobenzene	(1)	11.378	112	3321011	10.178
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	1172887	10.825
66) Ethylbenzene	(1)	11.469	106	2020630	10.433
67) m+p-Xylene	(1)	11.567	106	4953734	20.878
70) Xylene (Total)	(1)		106	7277990	31.146
68) o-Xylene	(1)	11.908	106	2324256	10.269
69) Styrene	(1)	11.914	104	3424241	10.283
71) Bromoform	(1)	12.085	173	367105	9.920
72) Isopropylbenzene	(1)	12.201	120	1775128	10.594
73)$4-Bromofluorobenzene	(1)	12.335	174	631078	5.234
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	526170M	10.168
75) Bromobenzene	(1)	12.457	156	1313319	10.686
77) trans-1,4-Dichloro-2-Butene	(1)	12.475	53	572862	43.959
76) 1,2,3-Trichloropropane	(1)	12.481	110	163071M	10.664
78) n-Propylbenzene	(1)	12.524	120	1903516	10.597
79) 2-Chlorotoluene	(1)	12.603	126	1516138	10.362
80) 1,3,5-Trimethylbenzene	(1)	12.652	105	5889868	10.877

M = Compound was manually integrated.
* = Compound is an internal standard.
$ = Compound is a surrogate standard.

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on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
81) 4-Chlorotoluene	(1)	12.682	126	1528320	10.605
82) tert-Butylbenzene	(1)	12.902	134	1276401M	10.781
83) Pentachloroethane	(1)	12.932	167	816182	10.689
84) 1,2,4-Trimethylbenzene	(1)	12.938	105	6077756	10.991
85) sec-Butylbenzene	(1)	13.066	134	1541899	10.630
86) p-Isopropyltoluene	(1)	13.158	119	6965595	11.181
87) 1,3-Dichlorobenzene	(1)	13.164	146	3008895	10.778
88) 1,4-Dichlorobenzene	(1)	13.225	146	2849092	10.747
89) n-Butylbenzene	(1)	13.450	92	3522749	10.660
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	669941	5.205
91) 1,2-Dichlorobenzene	(1)	13.499	146	2352187	10.661
92) Hexachloroethane	(1)	13.682	201	1077647	10.755
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036	157	103680	10.280
94) Nitrobenzene	(1)	14.176	77	254676	123.631
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	1898783	10.346
96) Hexachlorobutadiene	(1)	14.676	225	1638980	11.056
97) Naphthalene	(1)	14.761	128	1974595	9.944
98) 1,2,3-Trichlorobenzene	(1)	14.920	180	1337676	9.996

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

WAT13 0225

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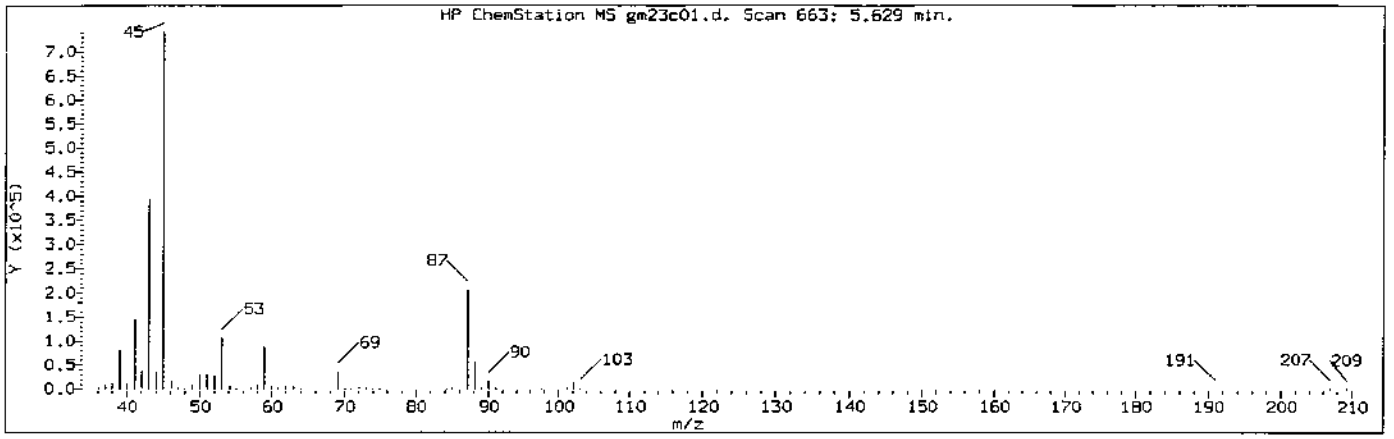
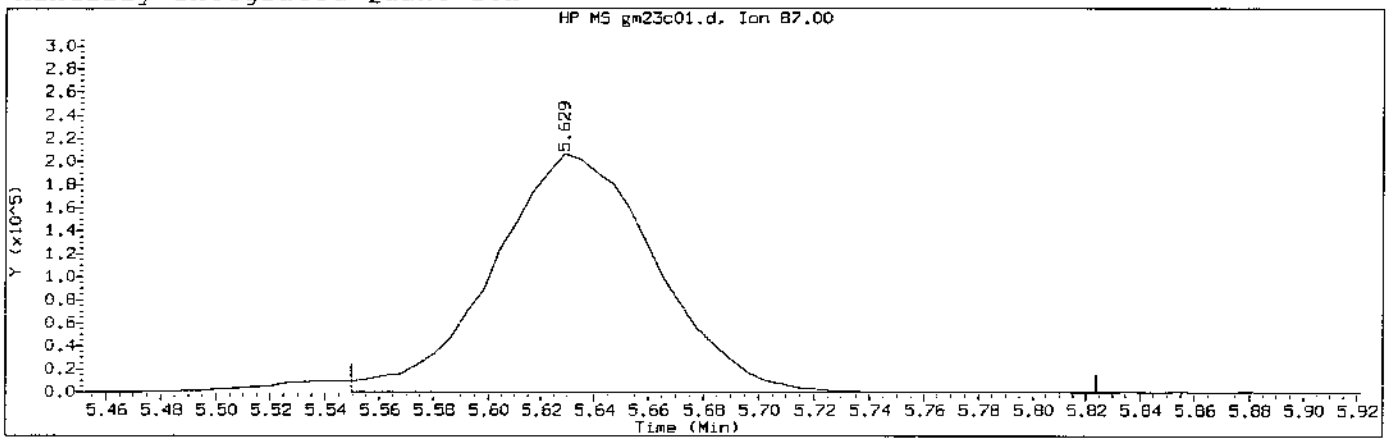
on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 663
Retention Time (minutes): 5.629
Quant Ion : 87.00
Area (flag) : 868927M
On-Column Amount (ng) : 9.9114
Integration start scan : 649 Integration stop scan: 694
Y at integration start : 0 Y at integration end: 0

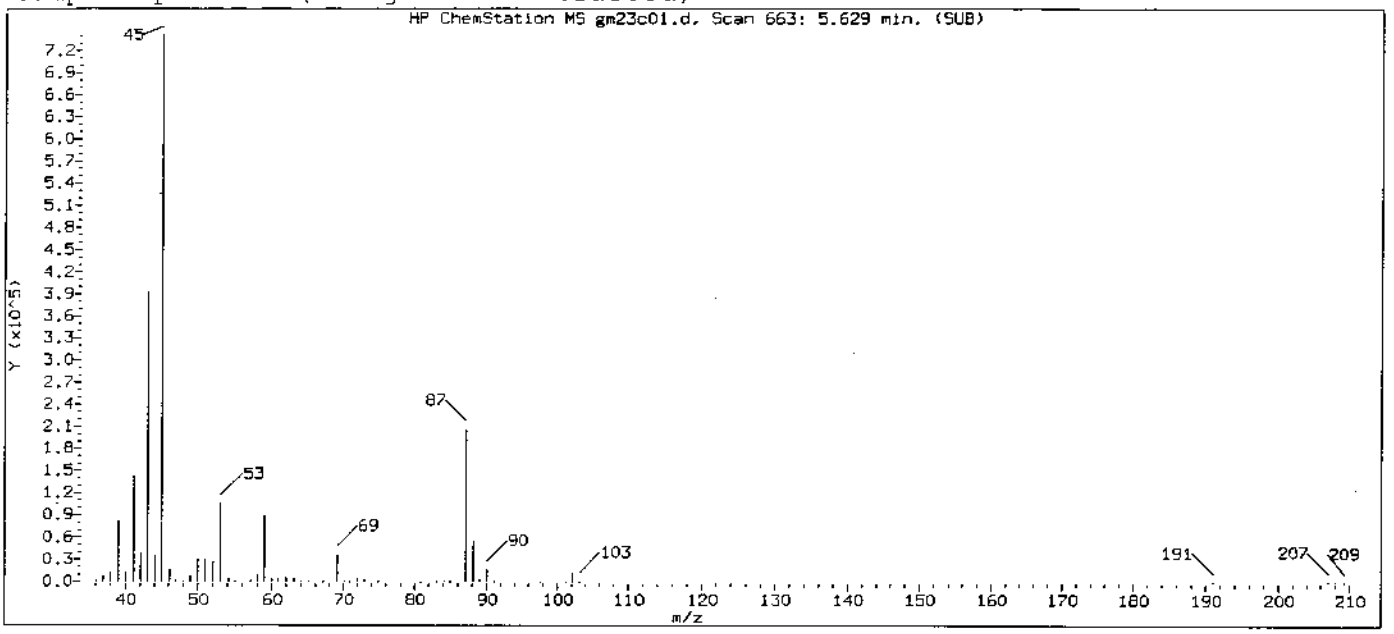
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 09:31. Target 3.5 esignature user ID: jml01693

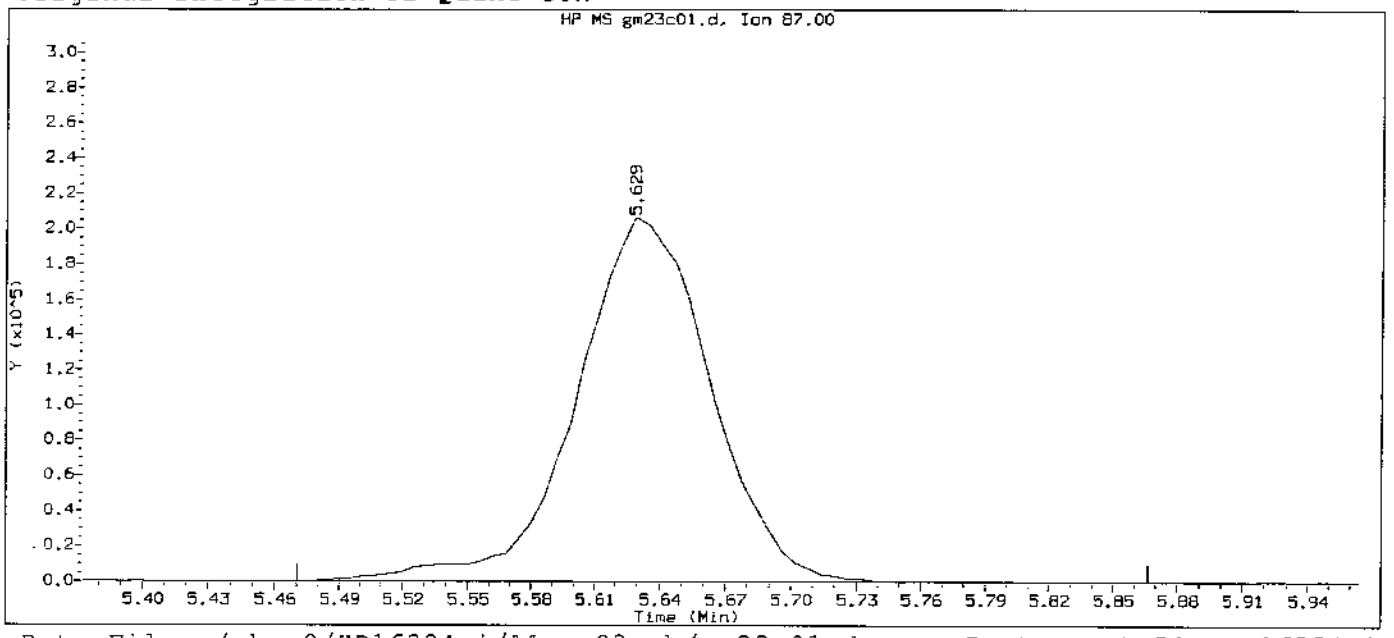
GC/MS audit/management approval: _____ 4/5/11

WAT13 8226

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

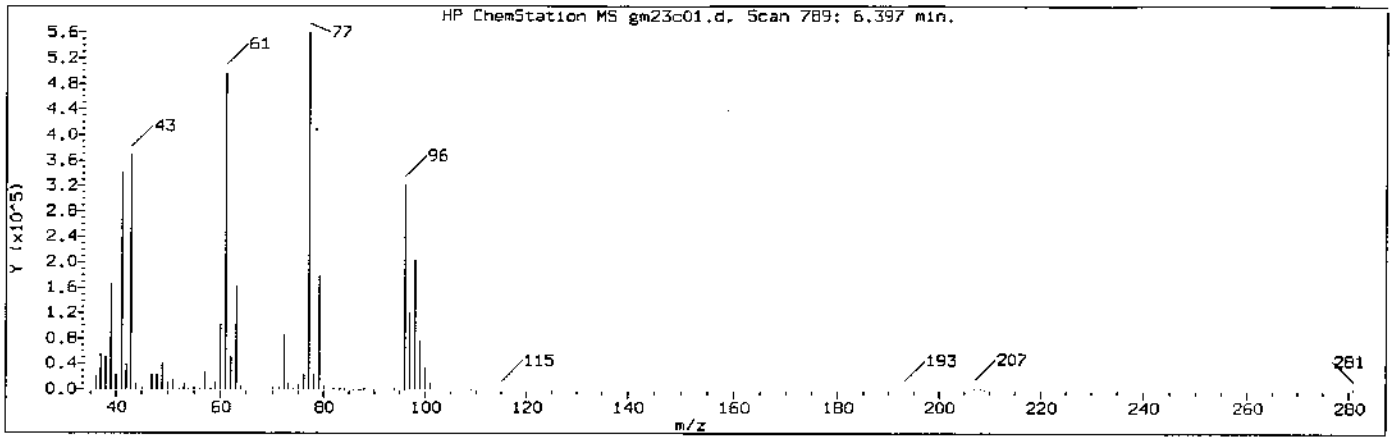
Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:23
Date, time and analyst ID of latest file update: 23-Mar-2011 09:23 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

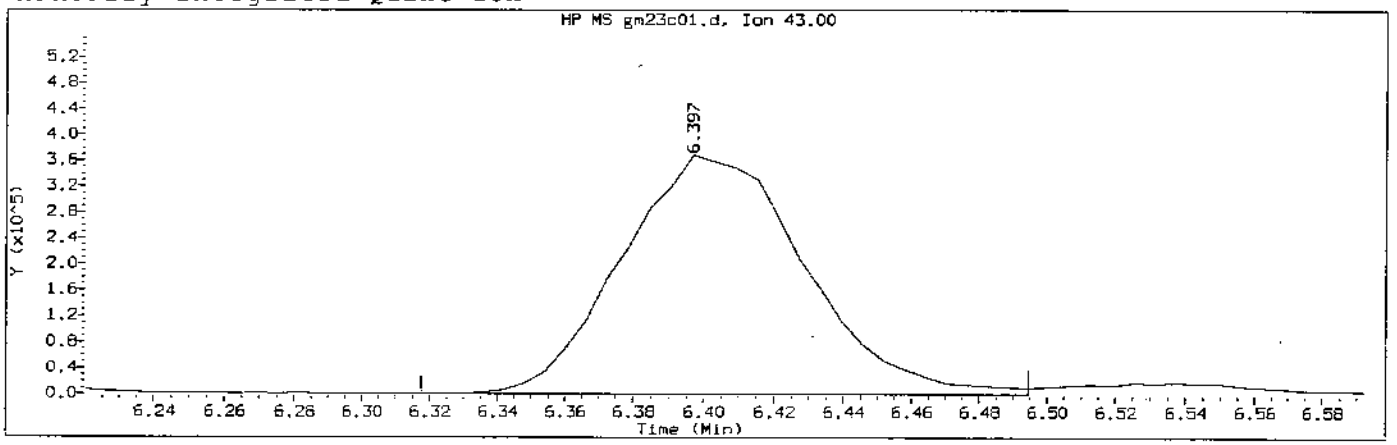
Compound Number : 24
Compound Name : di-Isopropyl Ether
Scan Number : 663
Retention Time (minutes): 5.629
Quant Ion : 87.00
Area : 889589
On-column Amount (ng) : 10.1471
Integration start scan : 636 Integration stop scan: 701 WAT13 0227
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 789
Retention Time (minutes): 6.397
Quant Ion : 43.00
Area (flag) : 1339989M
On-Column Amount (ng) : 99.9238
Integration start scan : 775 Integration stop scan: 804
Y at integration start : 294 Y at integration end: 294

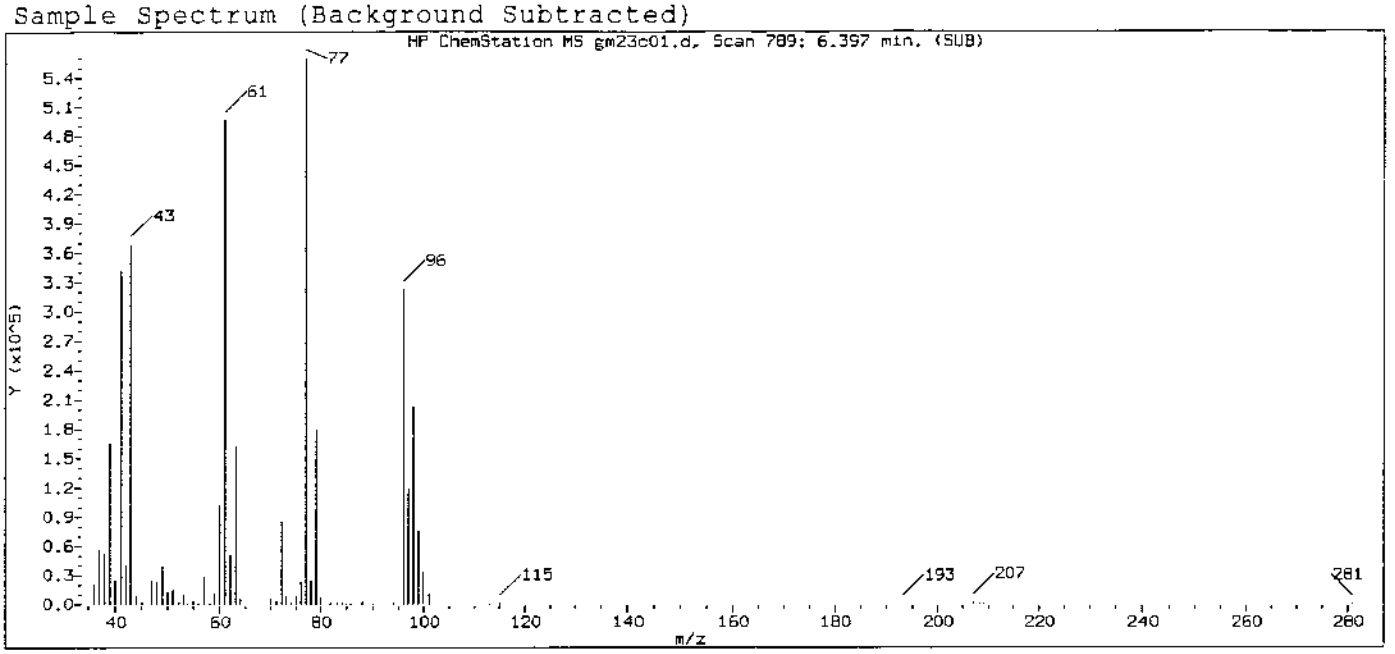
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 09:31. Target 3.5 esignature user ID: jml01693

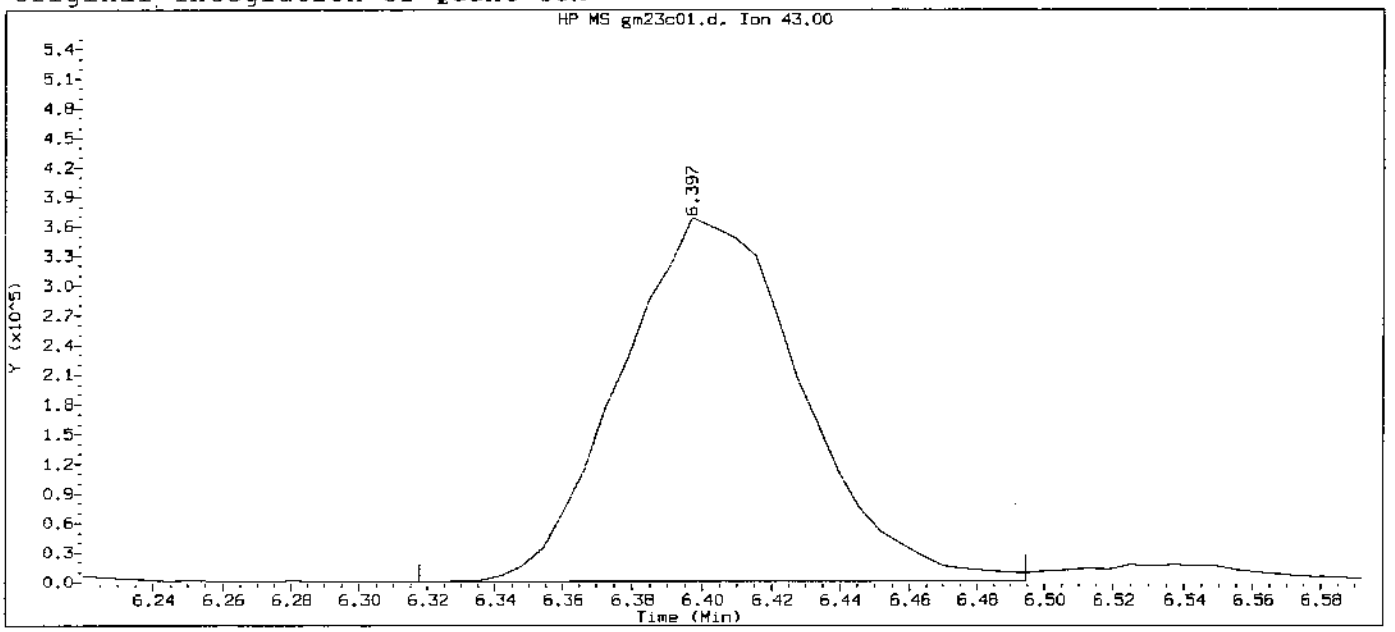
GC/MS audit/management approval: _____ 4/19..

MAT13 0228

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

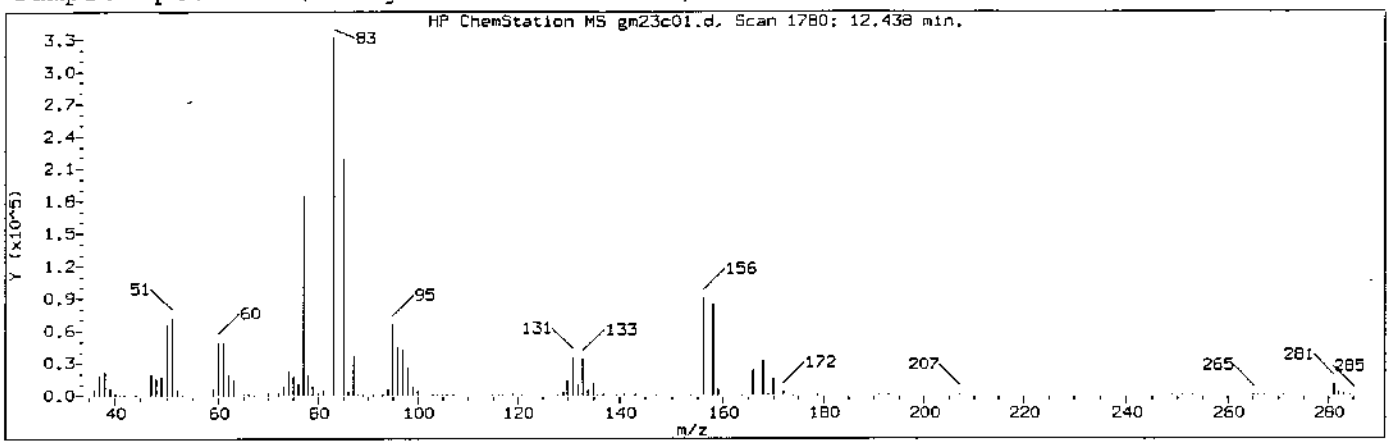
Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:23
Date, time and analyst ID of latest file update: 23-Mar-2011 09:23 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

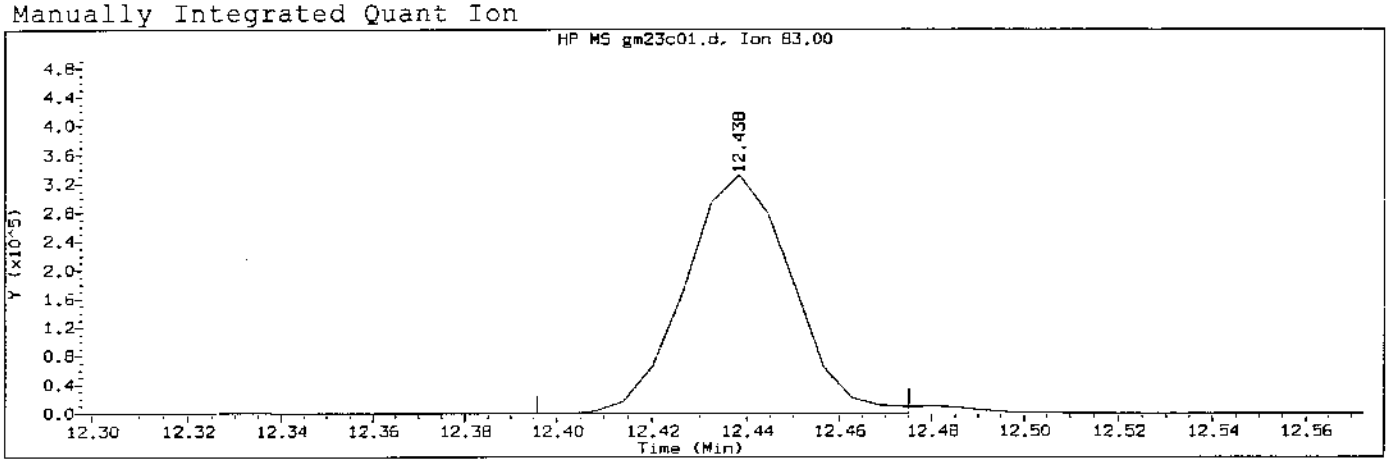
Compound Number : 28
Compound Name : 2-Butanone
Scan Number : 789
Retention Time (minutes): 6.397
Quant Ion : 43.00
Area : 1328941
On-column Amount (ng) : 99.0999
Integration start scan : 775 Integration stop scan: 804 WAT13 0229
Y at integration start : 336 Y at integration end: 2011

Digitally signed by Jason M. Long on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

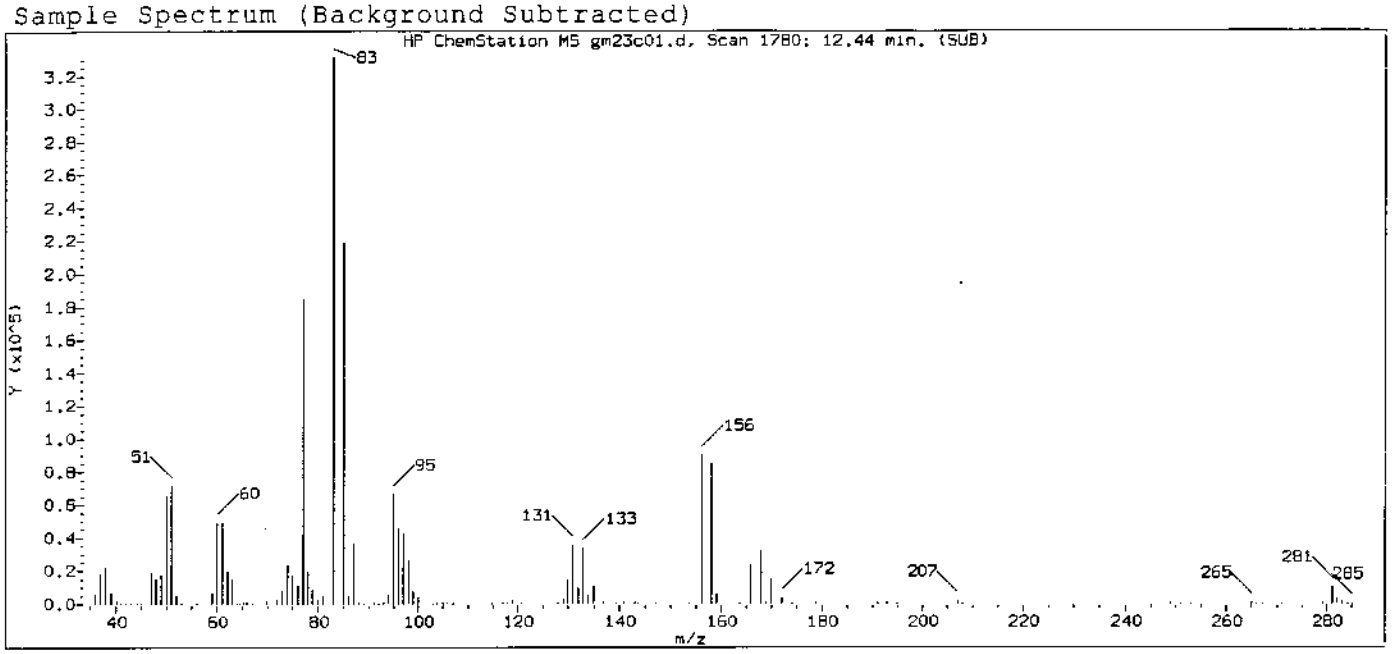
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area (flag) : 526170M
On-Column Amount (ng) : 10.1684
Integration start scan : 1772 Integration stop scan: 1785
Y at integration start : 0 Y at integration end: 0

Reason for manual integration: improper integration

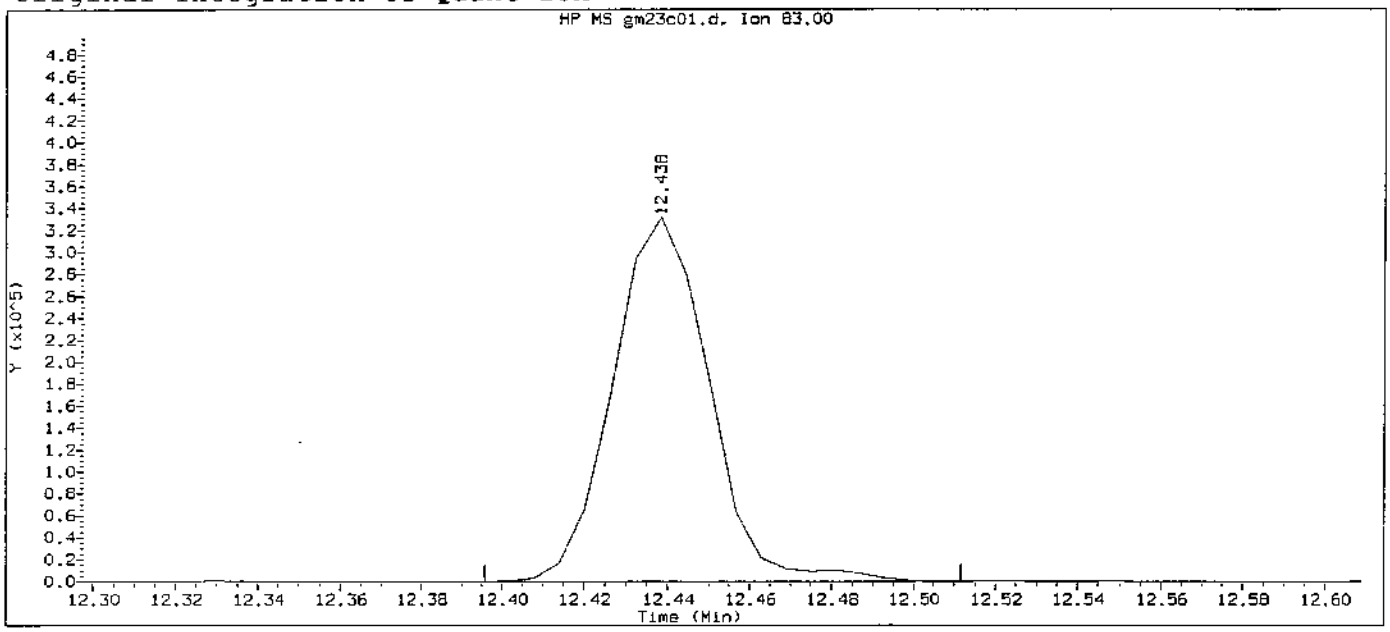
Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 09:31. Target 3.5 esignature user ID: jml01693

GC/MS audit/management approval: _____ 9/8/11 WAT13 8238

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

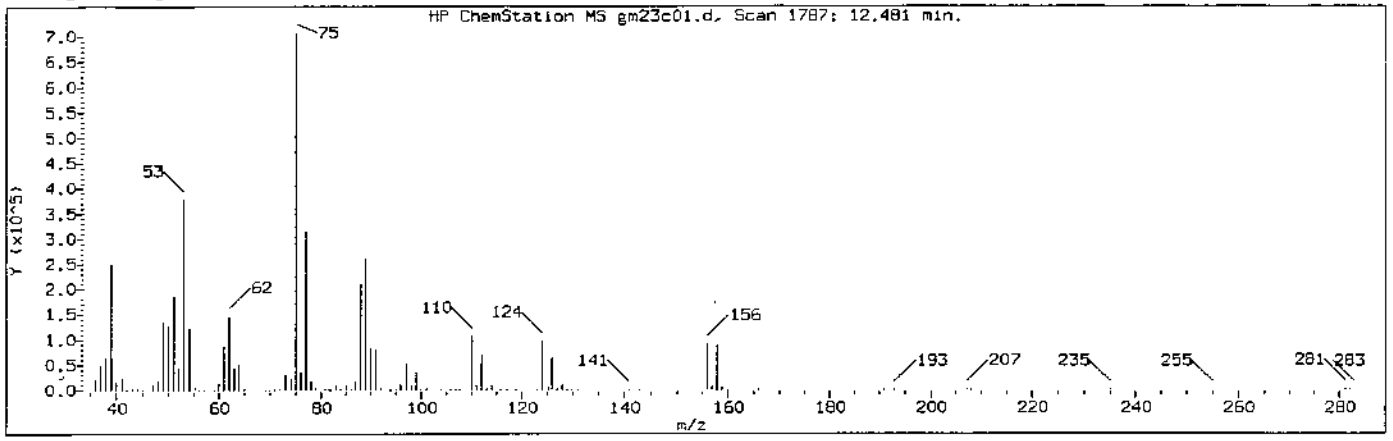
Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:23
Date, time and analyst ID of latest file update: 23-Mar-2011 09:23 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

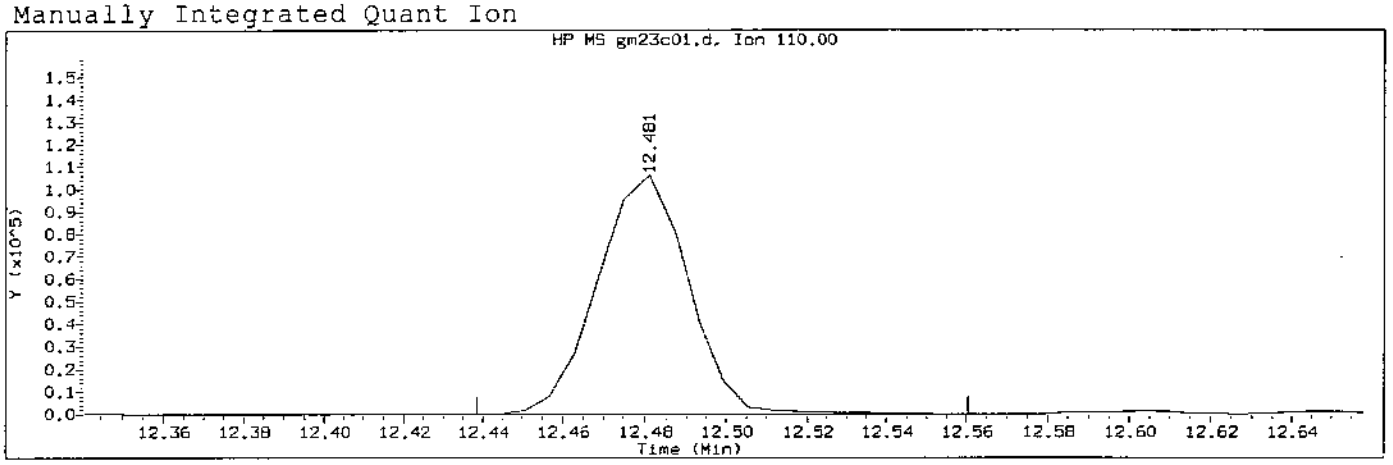
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 534478
On-column Amount (ng) : 10.3289
Integration start scan : 1772 Integration stop scan: 1791 WAT13 8231
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 76
Compound Name : 1,2,3-Trichloropropane
Scan Number : 1787
Retention Time (minutes): 12.481
Quant Ion : 110.00
Area (flag) : 163071M
On-Column Amount (ng) : 10.6640
Integration start scan : 1779 Integration stop scan: 1799
Y at integration start : 0 Y at integration end: 0

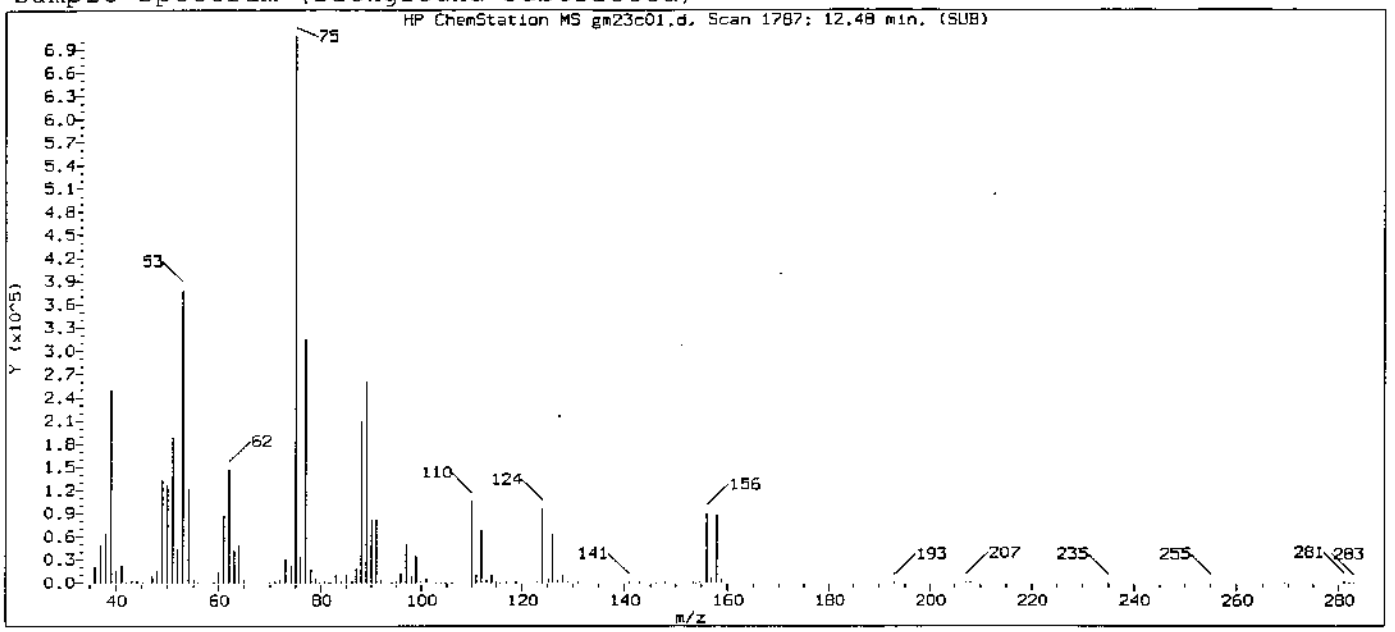
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 09:31. Target 3.5 esignature user ID: jml01693

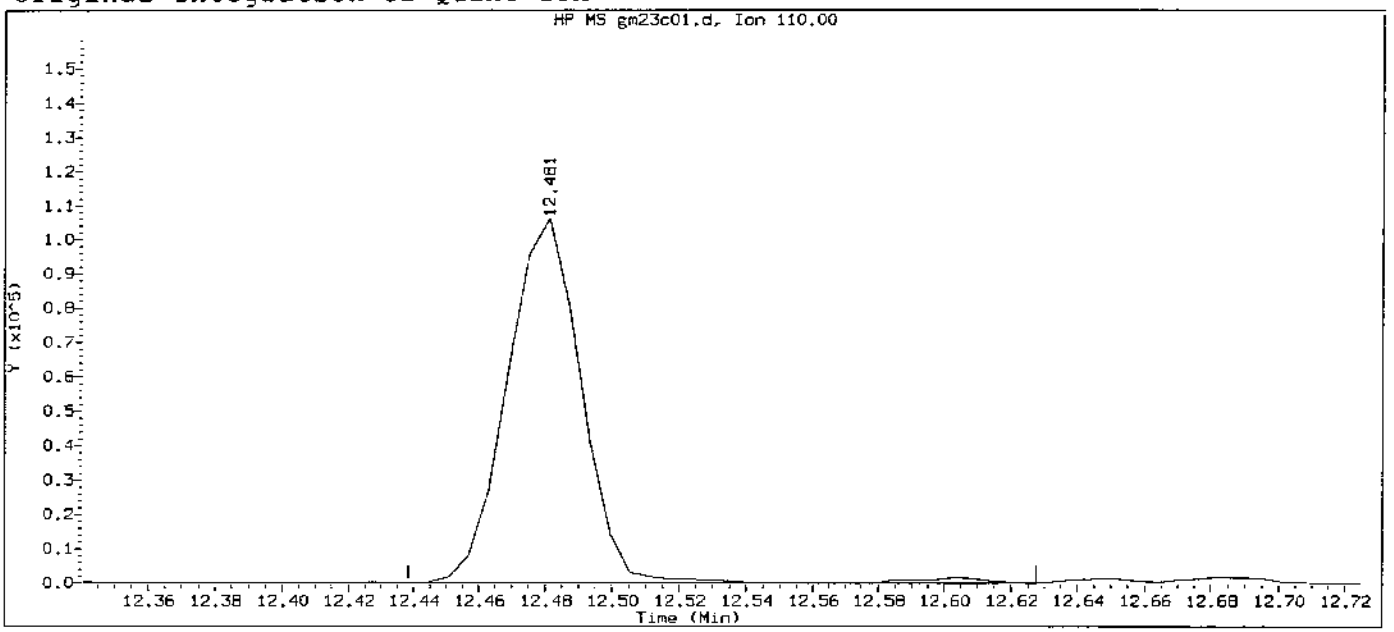
GC/MS audit/management approval: _____ 7/8/1

MAT13 8232

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

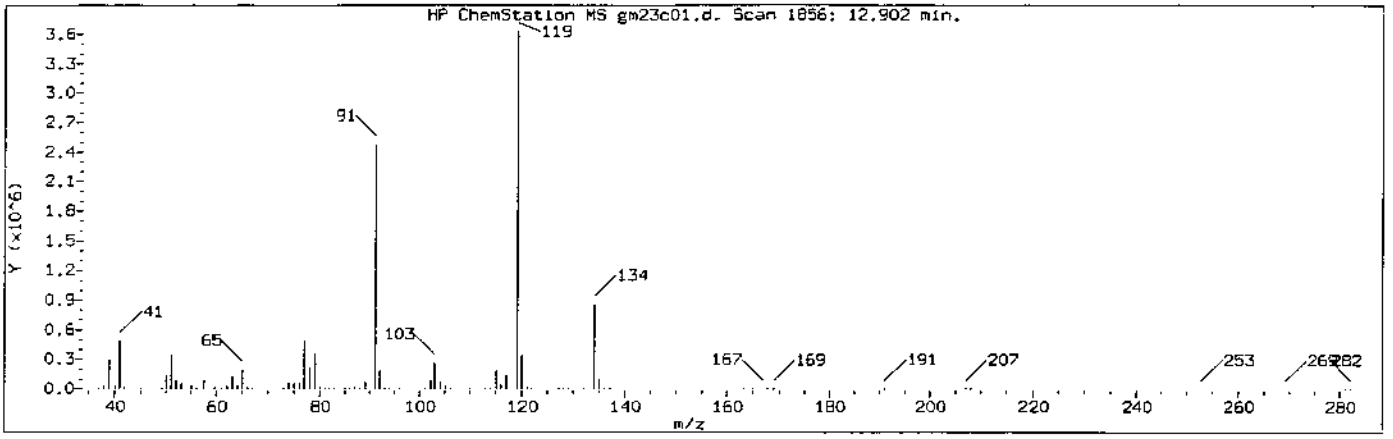
Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:23
Date, time and analyst ID of latest file update: 23-Mar-2011 09:23 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

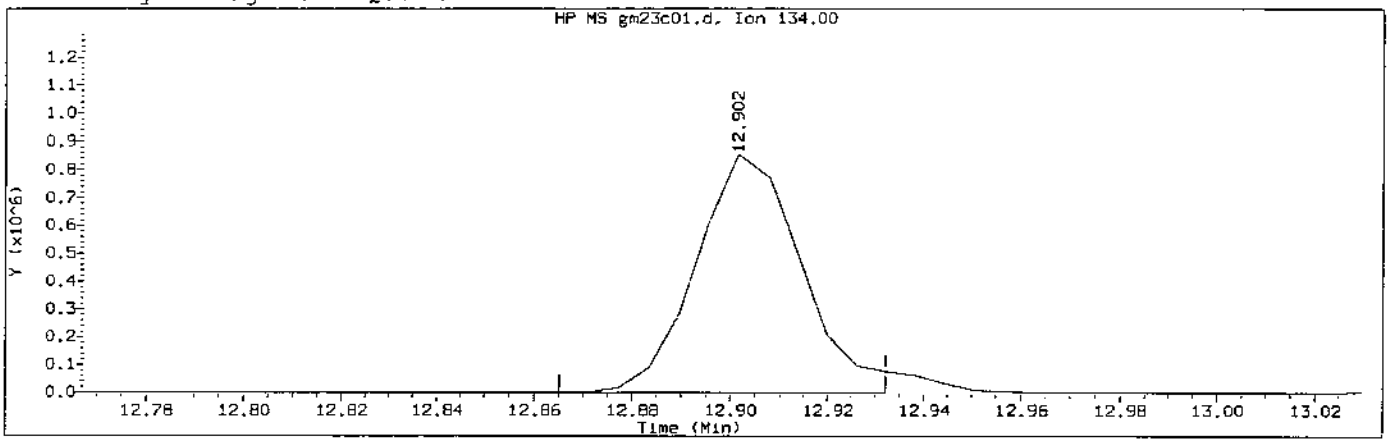
Compound Number : 76
Compound Name : 1,2,3-Trichloropropane
Scan Number : 1787
Retention Time (minutes): 12.481
Quant Ion : 110.00
Area : 165595
On-column Amount (ng) : 10.8291
Integration start scan : 1779 Integration stop scan: 1810 MAT13 0233
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:31
Date, time and analyst ID of latest file update: 23-Mar-2011 09:31 jml01693

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area (flag) : 1276401M
On-Column Amount (ng) : 10.7812
Integration start scan : 1849 Integration stop scan: 1860
Y at integration start : 0 Y at integration end: 0

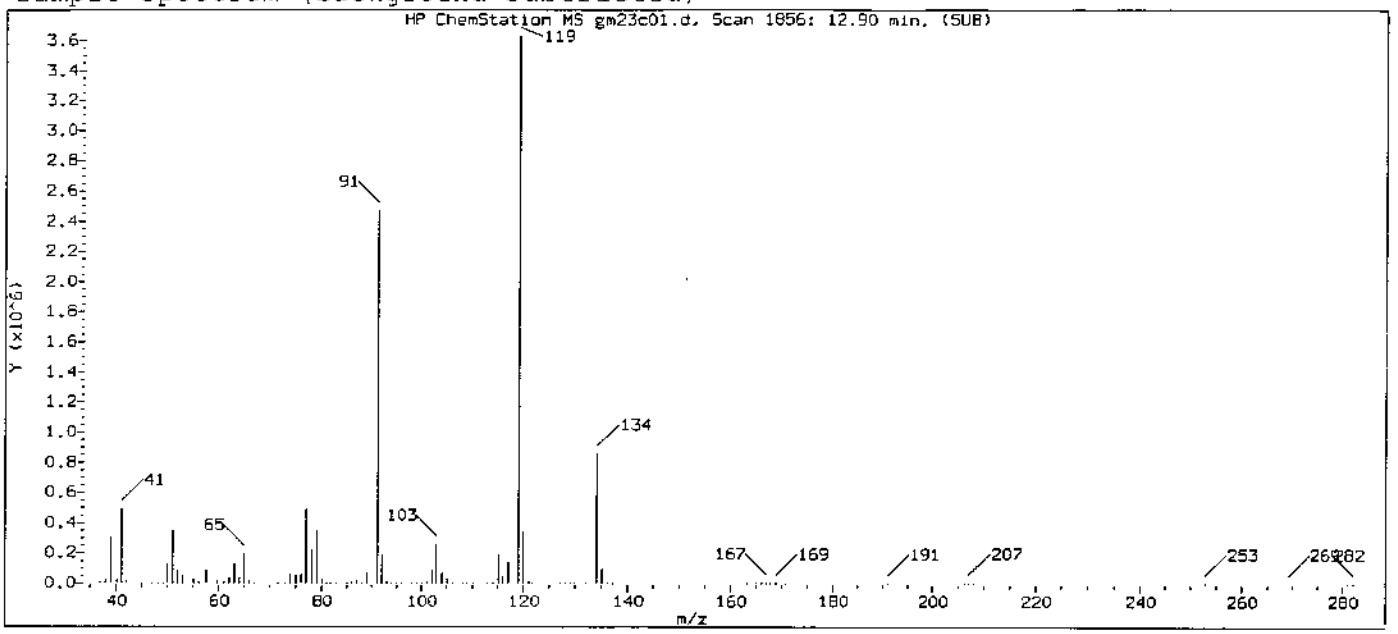
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 09:31. Target 3.5 esignature user ID: jml01693

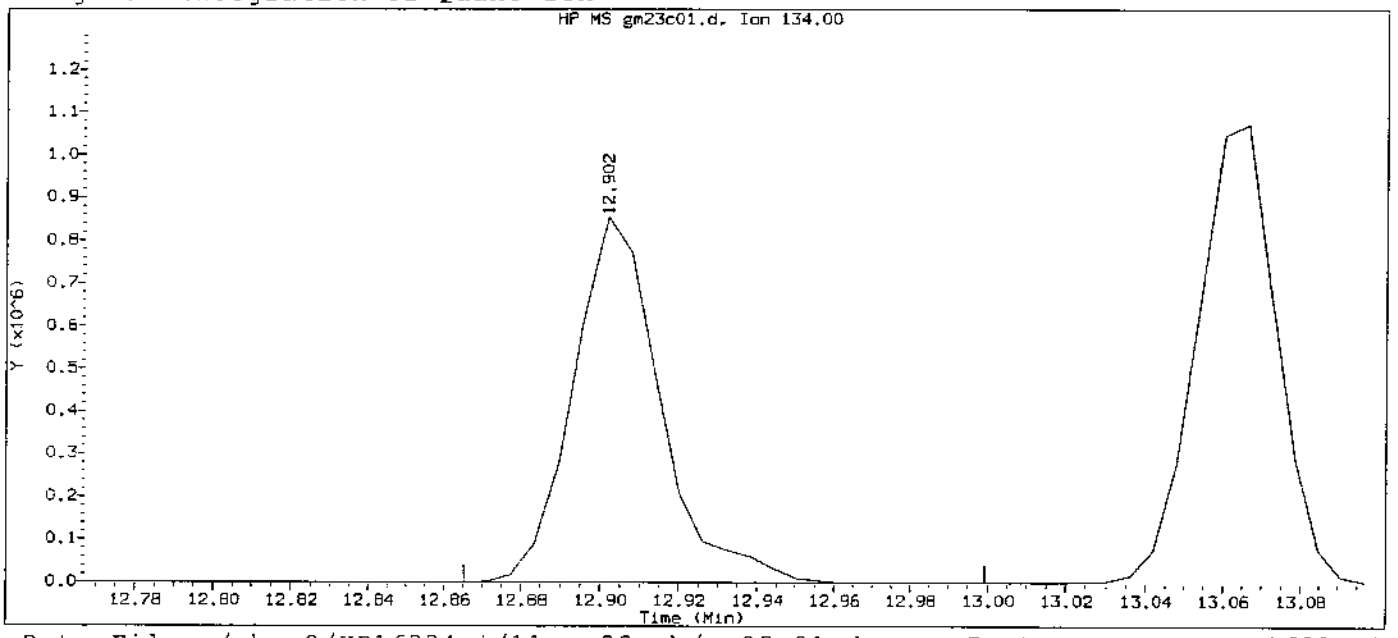
GC/MS audit/management approval: _____ 4/8/11

MAT13 #234

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23c01.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:05 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: REV4+ACRO
Calibration date and time: 23-MAR-2011 09:23
Date, time and analyst ID of latest file update: 23-Mar-2011 09:23 Automation

Sample Name: VSTD010 Lab Sample ID: VSTD010

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 1315603
On-column Amount (ng) : 11.1123
Integration start scan : 1849 Integration stop scan: 1871 WAT13 0235
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 03/23/2011 at 09:31.
Target 3.5 esignature user ID: jml01693

Raw QC Data

VBLKG16

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKG16

Data file: /chem2/HP16334.i/11mar23a.b/gm23b01.d
Data file Sample Info. Line: VBLKG16;VBLKG16;1;3;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 09:50 jml01693

Injection date and time: **23-MAR-2011 09:26**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 09:50
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.958(0.000)	1045	96	1954646 (-1)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	604290	5.076	102%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.487(0.000)	152	647701	5.097	102%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)			Not Detected					0.2	0.5
2) Chloromethane	(1)			Not Detected					0.2	0.5
3) Vinyl Chloride	(1)			Not Detected					0.1	0.5
4) Bromomethane	(1)			Not Detected					0.1	0.5
5) Chloroethane	(1)			Not Detected					0.2	0.5
7) Trichlorofluoromethane	(1)			Not Detected					0.2	0.5
10) 1,1-Dichloroethene	(1)			Not Detected					0.1	0.5
17) Methylene Chloride	(1)			Not Detected					0.3	0.5
20) trans-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
22) 1,1-Dichloroethane	(1)			Not Detected					0.1	0.5
26) cis-1,2-Dichloroethene	(1)			Not Detected					0.1	0.5
27) 2,2-Dichloropropane	(1)			Not Detected					0.2	0.5
32) Bromochloromethane	(1)			Not Detected					0.1	0.5
34) Chloroform	(1)			Not Detected					0.1	0.5
35) 1,1,1-Trichloroethane	(1)			Not Detected					0.1	0.5
38) 1,1-Dichloropropene	(1)			Not Detected					0.1	0.5
37) Carbon Tetrachloride	(1)			Not Detected					0.1	0.5
39) Benzene	(1)			Not Detected					0.1	0.5
40) 1,2-Dichloroethane	(1)			Not Detected					0.1	0.5
43) Trichloroethene	(1)			Not Detected					0.1	0.5
44) 1,2-Dichloropropane	(1)			Not Detected					0.1	0.5
46) Dibromomethane	(1)			Not Detected					0.1	0.5
47) Bromodichloromethane	(1)			Not Detected					0.1	0.5
50) cis-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
53) Toluene	(1)			Not Detected					0.1	0.5
55) trans-1,3-Dichloropropene	(1)			Not Detected					0.1	0.5
57) 1,1,2-Trichloroethane	(1)			Not Detected					0.1	0.5
58) Tetrachloroethene	(1)			Not Detected					0.1	0.5
59) 1,3-Dichloropropane	(1)			Not Detected					0.1	0.5
61) Dibromochloromethane	(1)			Not Detected					0.1	0.5
62) 1,2-Dibromoethane	(1)			Not Detected					0.1	0.5
64) Chlorobenzene	(1)			Not Detected					0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
66) Ethylbenzene	(1)			Not Detected					0.2	0.5
67) m+p-Xylene	(1)			Not Detected					0.1	0.5
68) o-Xylene	(1)			Not Detected					0.1	0.5

WAT13 8237

Digitally signed by Jason M. Long on 03/23/2011 at 09:51. Target 3.5 esignature user ID: jml01693

VBLKG16

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

VBLKG16

Data file: /chem2/HP16334.i/11mar23a.b/gm23b01.d
Data file Sample Info. Line: VBLKG16;VBLKG16;1;3;;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 09:50 jml01693

Injection date and time: **23-MAR-2011 09:26**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 09:50
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

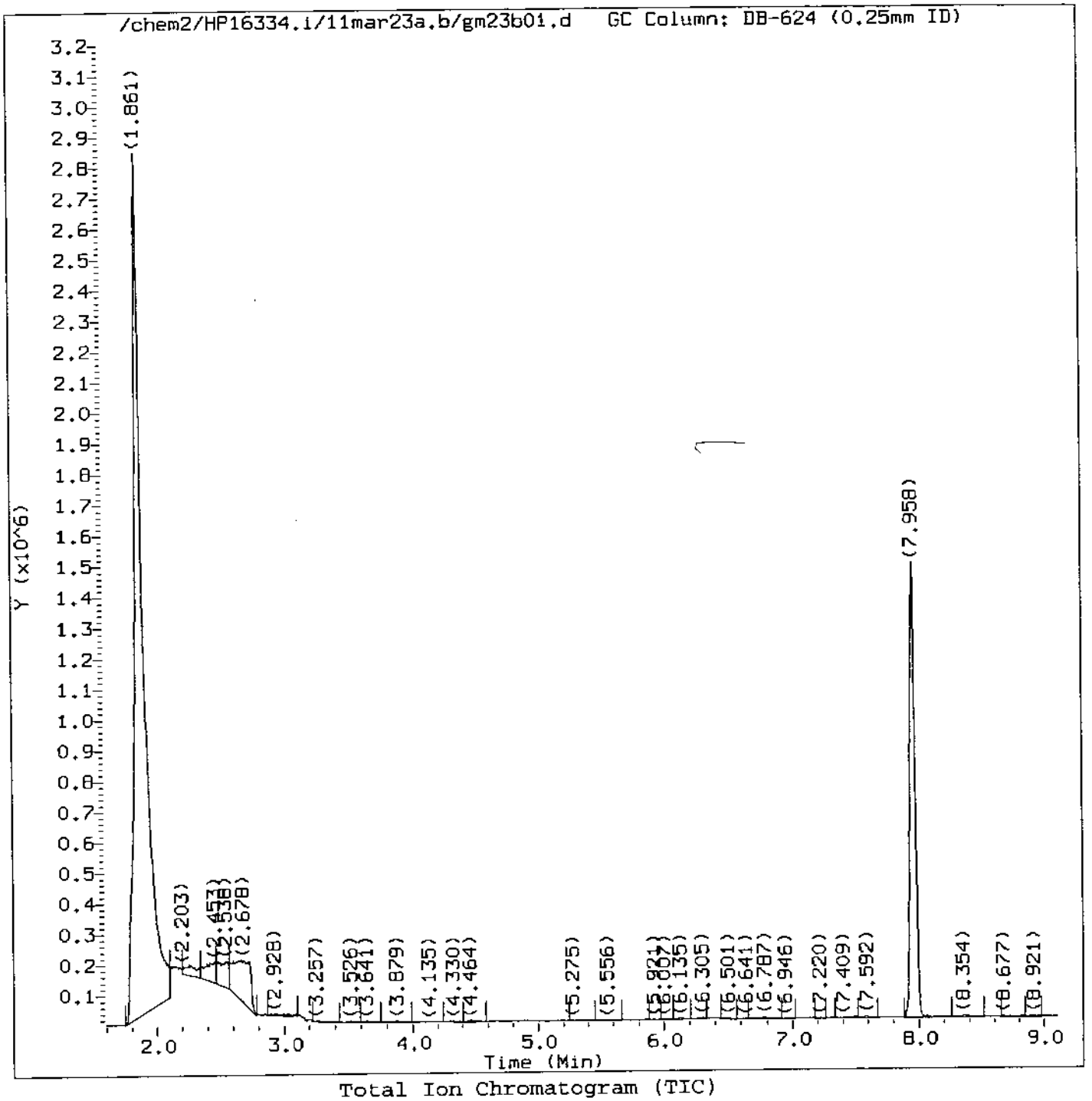
Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
69) Styrene	(1)			Not Detected					0.1	0.5
71) Bromoform	(1)			Not Detected					0.2	0.5
72) Isopropylbenzene	(1)			Not Detected					0.1	0.5
76) 1,2,3-Trichloropropane	(1)			Not Detected					0.1	0.5
75) Bromobenzene	(1)			Not Detected					0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)			Not Detected					0.1	0.5
78) n-Propylbenzene	(1)			Not Detected					0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)			Not Detected					0.1	0.5
81) 4-Chlorotoluene	(1)			Not Detected					0.2	0.5
79) 2-Chlorotoluene	(1)			Not Detected					0.1	0.5
82) tert-Butylbenzene	(1)			Not Detected					0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)			Not Detected					0.1	0.5
85) sec-Butylbenzene	(1)			Not Detected					0.1	0.5
86) p-Isopropyltoluene	(1)			Not Detected					0.1	0.5
87) 1,3-Dichlorobenzene	(1)			Not Detected					0.1	0.5
88) 1,4-Dichlorobenzene	(1)			Not Detected					0.1	0.5
89) n-Butylbenzene	(1)			Not Detected					0.2	0.5
91) 1,2-Dichlorobenzene	(1)			Not Detected					0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)			Not Detected					0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)			Not Detected					0.2	0.5
96) Hexachlorobutadiene	(1)			Not Detected					0.2	0.5
97) Naphthalene	(1)			Not Detected					0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)			Not Detected					0.2	0.5

Total number of targets = 59

Digitally signed by Jason M. Long on 03/23/2011 at 09:51. Target 3.5 esignature user ID: jml01693 MAT13 8238

Auditor: LCTDR Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23b01.d
Injection date and time: 23-MAR-2011 09:26

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

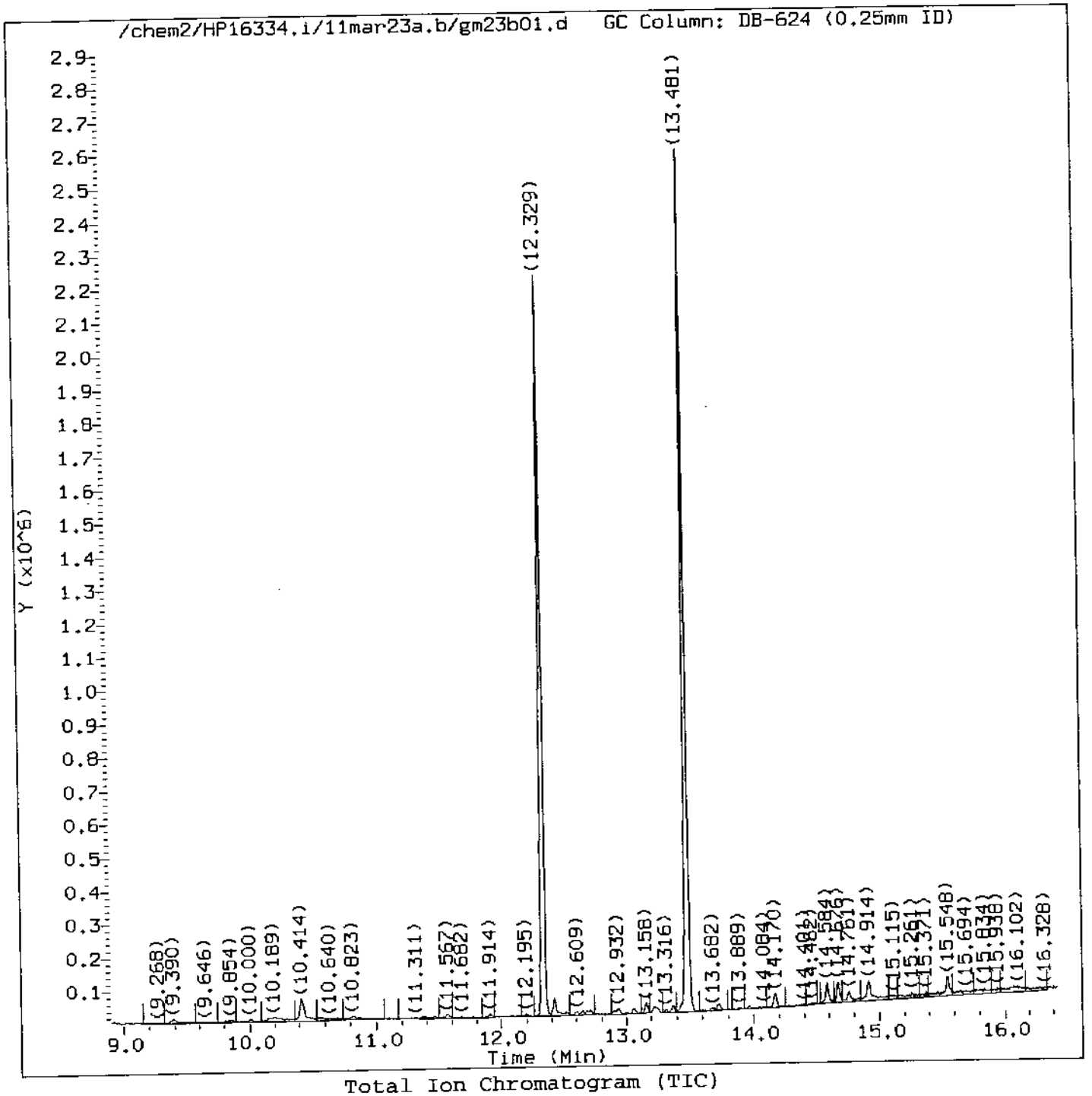
Date, time and analyst ID of latest file update: 23-Mar-2011 09:50 jml01693

Sample Name: VBLKG16

Lab Sample ID: VBLKG16

WAT13 0239

Digitally signed by Jason M. Long
on 03/23/2011 at 09:51.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23b01.d
Injection date and time: 23-MAR-2011 09:26

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 09:50 jml01693

Sample Name: VBLKG16

Lab Sample ID: VBLKG16

WAT13 8248

Digitally signed by Jason M. Long
on 03/23/2011 at 09:51.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23b01.d
Injection date and time: 23-MAR-2011 09:26

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 09:50 jml01693

Sample Name: VBLKG16

Lab Sample ID: VBLKG16

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
42)*Fluorobenzene	(1)	7.958	96	1954646	5.000
73)$4-Bromofluorobenzene	(1)	12.335	174	604290	5.076
90)$1,2-Dichlorobenzene-d4	(1)	13.487	152	647701	5.097

* = Compound is an internal standard.
$ = Compound is a surrogate standard.

MAT13 0241

Digitally signed by Jason M. Long
on 03/23/2011 at 09:51.
Target 3.5 esignature user ID: jml01693

LFBG16

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LFBG16

Injection date and time: **23-MAR-2011 09:48**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Data file: /chem2/HP16334.i/11mar23a.b/gm23101.d
Data file Sample Info. Line: LFBG16;LFBG16;1;3;LCS;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 09:50
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Analysis Comments:

Internal Standards	RT (+/-RT)	Scan	QIon	Area(+/- %Change)	Conc. (on-column)	QC Flag
42) Fluorobenzene	7.958(0.000)	1045	96	1925441 (-3)	5.00	

Surrogate Standards	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	%Rec.	QC flags	QC Limits
73) 4-Bromofluorobenzene	(1)	12.335(0.000)	174	617931	5.270	105%		80 - 120
90) 1,2-Dichlorobenzene-d4	(1)	13.481(0.001)	152	652414	5.212	104%		80 - 120

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
1) Dichlorodifluoromethane	(1)	2.087(0.000)	85	410393	1.976	1.98			0.2	0.5
2) Chloromethane	(1)	2.233(0.000)	50	339234	1.962	1.96			0.2	0.5
3) Vinyl Chloride	(1)	2.385(0.000)	62	339480	2.134	2.13			0.1	0.5
4) Bromomethane	(1)	2.739(0.000)	94	231832	2.246	2.25			0.1	0.5
5) Chloroethane	(1)	2.849(0.000)	64	186402	2.148	2.15			0.2	0.5
7) Trichlorofluoromethane	(1)	3.160(0.001)	101	555093M	2.432	2.43			0.2	0.5
10) 1,1-Dichloroethene	(1)	3.794(0.000)	96	539381	5.232	5.23			0.1	0.5
17) Methylene Chloride	(1)	4.495(-0.000)	84	514910	4.992	4.99			0.3	0.5
20) trans-1,2-Dichloroethene	(1)	4.909(-0.000)	96	633275	5.196	5.20			0.1	0.5
22) 1,1-Dichloroethane	(1)	5.537(0.000)	63	1101621	4.983	4.98			0.1	0.5
26) cis-1,2-Dichloroethene	(1)	6.378(0.000)	96	611778	5.003	5.00			0.1	0.5
27) 2,2-Dichloropropane	(1)	6.385(0.000)	77	1114811	5.426	5.43			0.2	0.5
32) Bromochloromethane	(1)	6.714(0.000)	128	223955	5.334	5.33			0.1	0.5
34) Chloroform	(1)	6.830(0.000)	83	1138673	5.187	5.19			0.1	0.5
35) 1,1,1-Trichloroethane	(1)	7.086(0.000)	97	1122338	5.519	5.52			0.1	0.5
38) 1,1-Dichloropropene	(1)	7.299(0.000)	75	911390	5.078	5.08			0.1	0.5
37) Carbon Tetrachloride	(1)	7.305(0.000)	117	1026466	5.650	5.65			0.1	0.5
39) Benzene	(1)	7.586(0.000)	78	2287738	4.899	4.90			0.1	0.5
40) 1,2-Dichloroethane	(1)	7.610(0.000)	62	562775	5.433	5.43			0.1	0.5
43) Trichloroethene	(1)	8.433(0.000)	95	689256	5.118	5.12			0.1	0.5
44) 1,2-Dichloropropane	(1)	8.732(0.000)	63	506508	4.625	4.63			0.1	0.5
46) Dibromomethane	(1)	8.890(-0.000)	93	200622	5.068	5.07			0.1	0.5
47) Bromodichloromethane	(1)	9.098(-0.000)	83	627920	5.109	5.11			0.1	0.5
50) cis-1,3-Dichloropropene	(1)	9.634(-0.000)	75	608199	4.393	4.39			0.1	0.5
53) Toluene	(1)	10.006(-0.000)	92	1499002	4.916	4.92			0.1	0.5
55) trans-1,3-Dichloropropene	(1)	10.238(0.000)	75	483486	4.500	4.50			0.1	0.5
57) 1,1,2-Trichloroethane	(1)	10.433(-0.000)	83	211660	4.721	4.72			0.1	0.5
58) Tetrachloroethene	(1)	10.573(-0.000)	166	859205	5.327	5.33			0.1	0.5
59) 1,3-Dichloropropane	(1)	10.597(-0.000)	76	456692	4.892	4.89			0.1	0.5
61) Dibromochloromethane	(1)	10.823(-0.000)	129	333803	4.887	4.89			0.1	0.5
62) 1,2-Dibromoethane	(1)	10.932(-0.000)	107	242179	4.985	4.98			0.1	0.5
64) Chlorobenzene	(1)	11.378(-0.000)	112	1559452	4.915	4.91			0.1	0.5
65) 1,1,1,2-Tetrachloroethane	(1)	11.451(-0.000)	131	549935	5.220	5.22			0.1	0.5
66) Ethylbenzene	(1)	11.469(-0.000)	106	949469	5.041	5.04			0.1	0.5
67) m+p-Xylene	(1)	11.566(-0.000)	106	2325143	10.077	10.08			0.2	0.5
68) o-Xylene	(1)	11.908(-0.000)	106	1095635	4.978	4.98			0.1	0.5

WAT13 0242

M = Compound was manually integrated.

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LFBG16

Lancaster Laboratories
Analysis Summary for GC/MS Volatiles

LFBG16

Data file: /chem2/HP16334.i/11mar23a.b/gm23101.d
Data file Sample Info. Line: LFBG16;LFBG16;1;3;LCS;;DRAPER;
Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Injection date and time: **23-MAR-2011 09:48**
Instrument ID: **HP16334.i** Batch: **G110821AA**

Blank Data file reference: **/chem2/HP16334.i/11mar23a.b/gm23b01.d**

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: **DRAPERREV3**
Calibration date and time (Last Method Edit): 23-MAR-2011 09:50
Mid Level Daily Calibration Standard Reference: **/chem2/HP16334.i/11mar23a.b/gm23c01.d**

Bottle Code: Matrix: WATER Level: Low

On-Column Amount units: ng In Sample Concentration units: ug/L

Sample Concentration Formula: On-Column Amount * (Vt/Vo) VOA Prep Factor: **1.00**

Volume Purged (Vt): 25 ml Sample Volume (Vo): 25 ml

Target Compounds	I.S. Ref.	RT (+/-RRT)	QIon	Area	Conc. (on-column)	Conc. (in sample)	Blank Conc.	Qual.	Reporting Limit (in sample)	LOQ
69) Styrene	(1)	11.914(-0.000)	104	1598709	4.937	4.94			0.1	0.5
71) Bromoform	(1)	12.085(-0.000)	173	154176	4.284	4.28			0.2	0.5
72) Isopropylbenzene	(1)	12.200(-0.000)	120	827673	5.079	5.08			0.1	0.5
74) 1,1,2,2-Tetrachloroethane	(1)	12.438(-0.000)	83	236350M	4.697	4.70			0.1	0.5
75) Bromobenzene	(1)	12.457(-0.000)	156	616134	5.155	5.16			0.1	0.5
76) 1,2,3-Trichloropropane	(1)	12.481(-0.000)	110	77410	5.206	5.21			0.1	0.5
78) n-Propylbenzene	(1)	12.524(-0.000)	120	884036	5.061	5.06			0.1	0.5
79) 2-Chlorotoluene	(1)	12.603(-0.000)	126	725075	5.096	5.10			0.1	0.5
80) 1,3,5-Trimethylbenzene	(1)	12.652(-0.000)	105	2752245	5.227	5.23			0.1	0.5
81) 4-Chlorotoluene	(1)	12.682(-0.000)	126	717922	5.123	5.12			0.2	0.5
82) tert-Butylbenzene	(1)	12.902(-0.000)	134	583345M	5.067	5.07			0.1	0.5
84) 1,2,4-Trimethylbenzene	(1)	12.932(0.000)	105	2814555	5.234	5.23			0.1	0.5
85) sec-Butylbenzene	(1)	13.066(-0.000)	134	716525	5.080	5.08			0.1	0.5
86) p-Isopropyltoluene	(1)	13.158(-0.000)	119	3216708	5.310	5.31			0.1	0.5
87) 1,3-Dichlorobenzene	(1)	13.164(-0.000)	146	1393269	5.132	5.13			0.1	0.5
88) 1,4-Dichlorobenzene	(1)	13.225(-0.000)	146	1332010	5.167	5.17			0.1	0.5
89) n-Butylbenzene	(1)	13.450(-0.000)	92	1639341	5.101	5.10			0.2	0.5
91) 1,2-Dichlorobenzene	(1)	13.499(-0.000)	146	1089906	5.080	5.08			0.1	0.5
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036(-0.000)	157	45929	4.683	4.68			0.4	0.5
95) 1,2,4-Trichlorobenzene	(1)	14.584(-0.000)	180	883399	4.950	4.95			0.2	0.5
96) Hexachlorobutadiene	(1)	14.676(-0.000)	225	768636	5.332	5.33			0.2	0.5
97) Naphthalene	(1)	14.761(-0.000)	128	898613	4.654	4.65			0.2	0.5
98) 1,2,3-Trichlorobenzene	(1)	14.920(-0.000)	180	632757	4.863	4.86			0.2	0.5

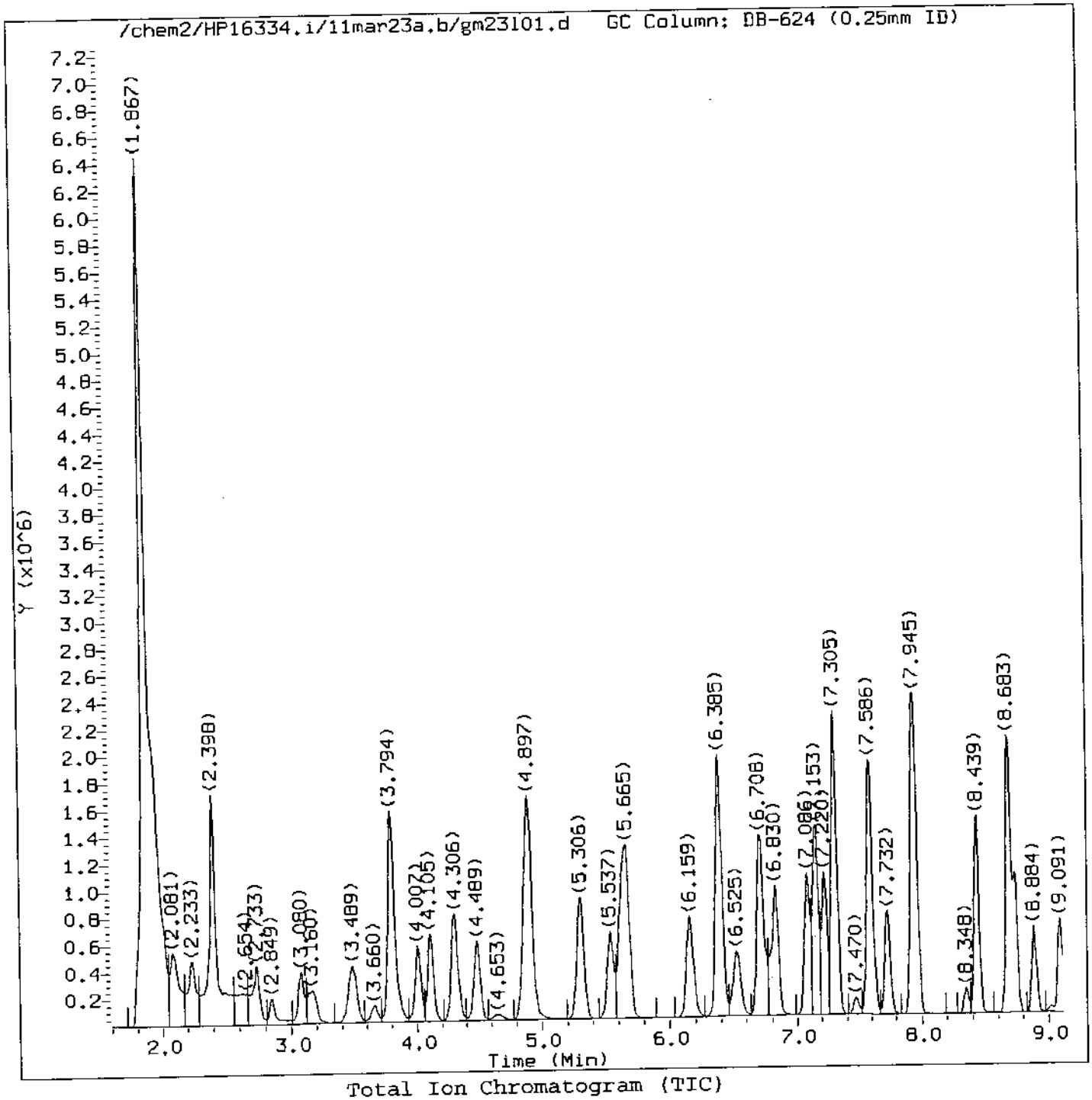
M = Compound was manually integrated.

Total number of targets = 59

WAT13 8243

Digitally signed by Jason M. Long on 03/23/2011 at 10:07. Target 3.5 esignature user ID: jml01693

Auditor: LCTOX Date: 3/26/11



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

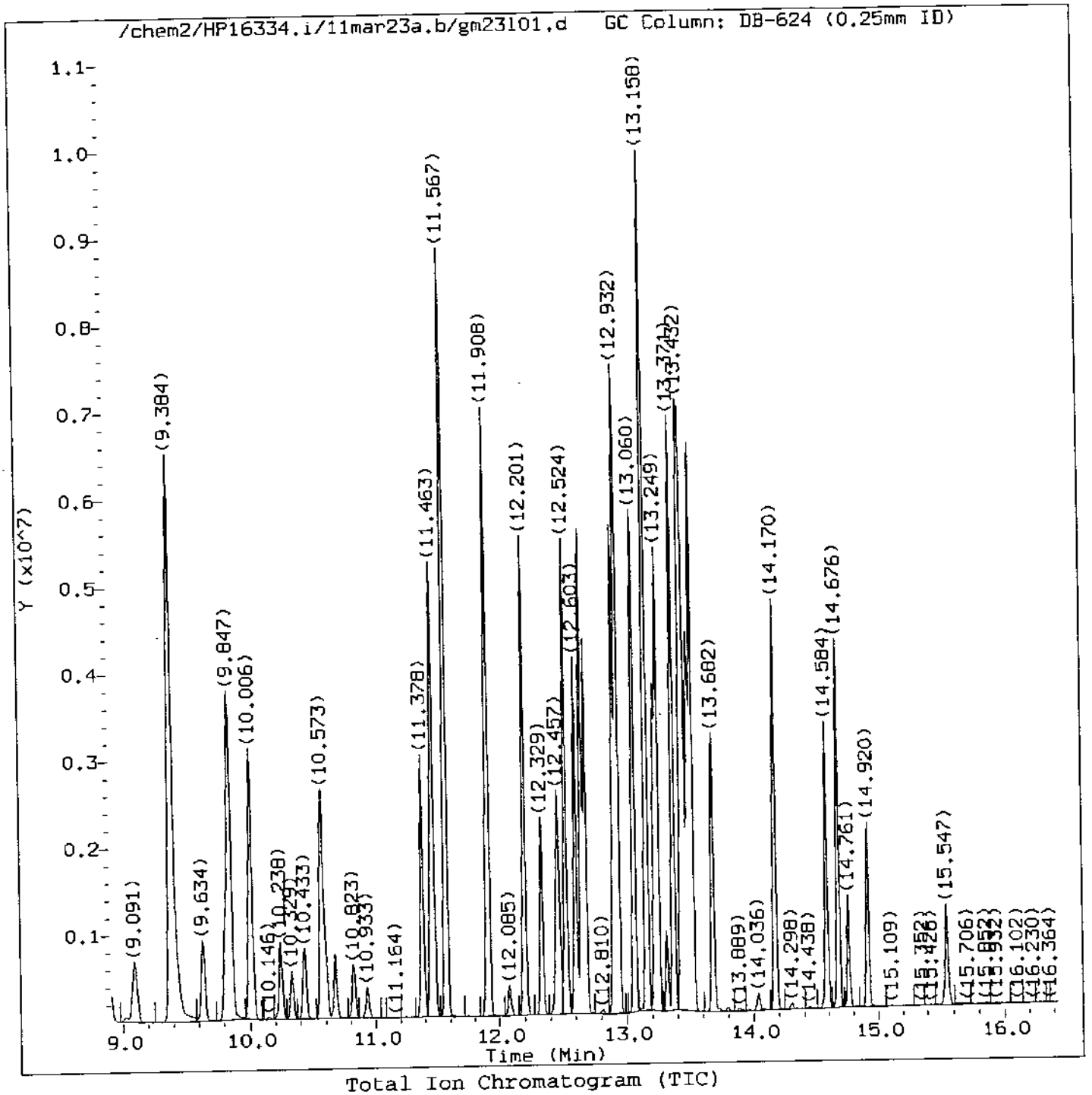
Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16

Lab Sample ID: LFBG16

WAT13 8244

Digitally signed by Jason M. Long
on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693



Total Ion Chromatogram (TIC)

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16

Lab Sample ID: LFBG16

WAT13 8245

Digitally signed by Jason M. Long
on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16

Lab Sample ID: LFBG16

Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
1) Dichlorodifluoromethane	(1)	2.087	85	410393	1.976
2) Chloromethane	(1)	2.233	50	339234	1.962
3) Vinyl Chloride	(1)	2.385	62	339480	2.134
4) Bromomethane	(1)	2.739	94	231832	2.246
5) Chloroethane	(1)	2.849	64	186402	2.148
7) Trichlorofluoromethane	(1)	3.160	101	555093M	2.432
10) 1,1-Dichloroethene	(1)	3.794	96	539381	5.232
17) Methylene Chloride	(1)	4.495	84	514910	4.992
20) trans-1,2-Dichloroethene	(1)	4.909	96	633275	5.196
22) 1,1-Dichloroethane	(1)	5.537	63	1101621	4.983
26) cis-1,2-Dichloroethene	(1)	6.379	96	611778	5.003
27) 2,2-Dichloropropane	(1)	6.385	77	1114811	5.426
32) Bromochloromethane	(1)	6.714	128	223955	5.334
34) Chloroform	(1)	6.830	83	1138673	5.187
35) 1,1,1-Trichloroethane	(1)	7.086	97	1122338	5.519
38) 1,1-Dichloropropene	(1)	7.299	75	911390	5.078
37) Carbon Tetrachloride	(1)	7.305	117	1026466	5.650
39) Benzene	(1)	7.586	78	2287738	4.899
40) 1,2-Dichloroethane	(1)	7.610	62	562775	5.433
42) *Fluorobenzene	(1)	7.958	96	1925441	5.000
43) Trichloroethene	(1)	8.433	95	689256	5.118
44) 1,2-Dichloropropane	(1)	8.732	63	506508	4.625
46) Dibromomethane	(1)	8.890	93	200622	5.068
47) Bromodichloromethane	(1)	9.098	83	627920	5.109
50) cis-1,3-Dichloropropene	(1)	9.634	75	608199	4.393
53) Toluene	(1)	10.006	92	1499002	4.916
55) trans-1,3-Dichloropropene	(1)	10.238	75	483486	4.500
57) 1,1,2-Trichloroethane	(1)	10.433	83	211660	4.721
58) Tetrachloroethene	(1)	10.573	166	859205	5.327
59) 1,3-Dichloropropane	(1)	10.597	76	456692	4.892
61) Dibromochloromethane	(1)	10.823	129	333803	4.887
62) 1,2-Dibromoethane	(1)	10.933	107	242179	4.985
64) Chlorobenzene	(1)	11.378	112	1559452	4.915
65) 1,1,1,2-Tetrachloroethane	(1)	11.451	131	549935	5.220
66) Ethylbenzene	(1)	11.469	106	949469	5.041
67) m+p-Xylene	(1)	11.567	106	2325143	10.077
68) o-Xylene	(1)	11.908	106	1095635	4.978
69) Styrene	(1)	11.914	104	1598709	4.937

M = Compound was manually integrated.
* = Compound is an internal standard.

Digitally signed by Jason M. Long
on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

Quant Report

Target Revision 3.5

Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16

Lab Sample ID: LFBG16

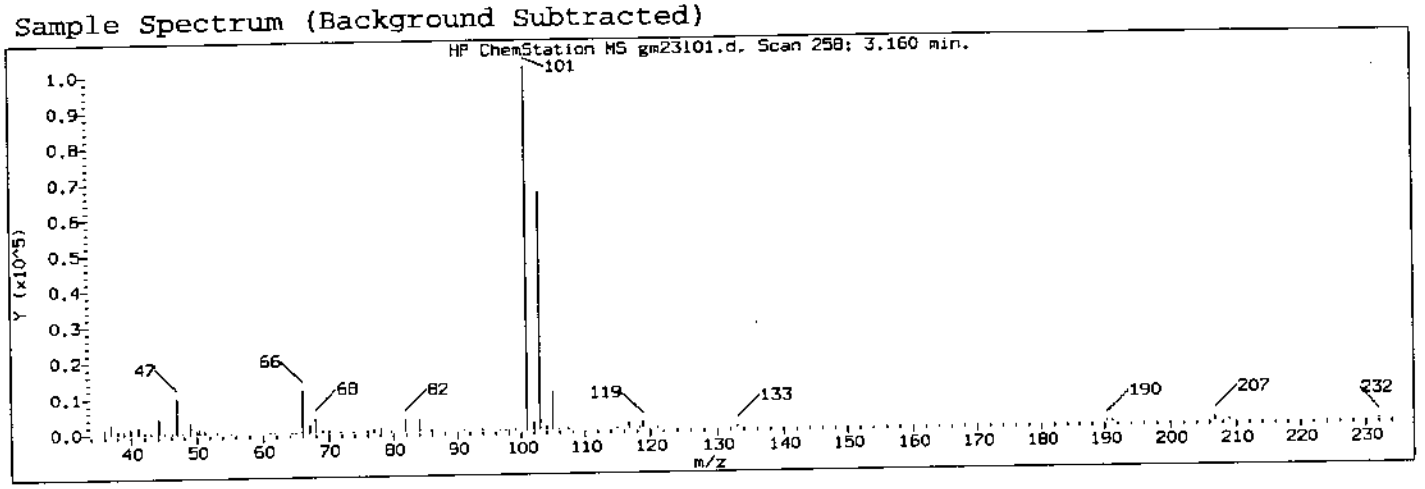
Compounds	I.S. Ref.	RT	QIon	Area	On-Column Amount (ng)
71) Bromoform	(1)	12.085	173	154176	4.284
72) Isopropylbenzene	(1)	12.201	120	827673	5.079
73)$4-Bromofluorobenzene	(1)	12.335	174	617931	5.270
74) 1,1,2,2-Tetrachloroethane	(1)	12.438	83	236350M	4.697
75) Bromobenzene	(1)	12.457	156	616134	5.155
76) 1,2,3-Trichloropropane	(1)	12.481	110	77410	5.206
78) n-Propylbenzene	(1)	12.524	120	884036	5.061
79) 2-Chlorotoluene	(1)	12.603	126	725075	5.096
80) 1,3,5-Trimethylbenzene	(1)	12.652	105	2752245	5.227
81) 4-Chlorotoluene	(1)	12.682	126	717922	5.123
82) tert-Butylbenzene	(1)	12.902	134	583345M	5.067
84) 1,2,4-Trimethylbenzene	(1)	12.932	105	2814555	5.234
85) sec-Butylbenzene	(1)	13.066	134	716525	5.080
86) p-Isopropyltoluene	(1)	13.158	119	3216708	5.310
87) 1,3-Dichlorobenzene	(1)	13.164	146	1393269	5.132
88) 1,4-Dichlorobenzene	(1)	13.225	146	1332010	5.167
89) n-Butylbenzene	(1)	13.450	92	1639341	5.101
90)$1,2-Dichlorobenzene-d4	(1)	13.481	152	652414	5.212
91) 1,2-Dichlorobenzene	(1)	13.499	146	1089906	5.080
93) 1,2-Dibromo-3-Chloropropane	(1)	14.036	157	45929	4.683
95) 1,2,4-Trichlorobenzene	(1)	14.584	180	883399	4.950
96) Hexachlorobutadiene	(1)	14.676	225	768636	5.332
97) Naphthalene	(1)	14.761	128	898613	4.654
98) 1,2,3-Trichlorobenzene	(1)	14.920	180	632757	4.863

M = Compound was manually integrated.
$ = Compound is a surrogate standard.

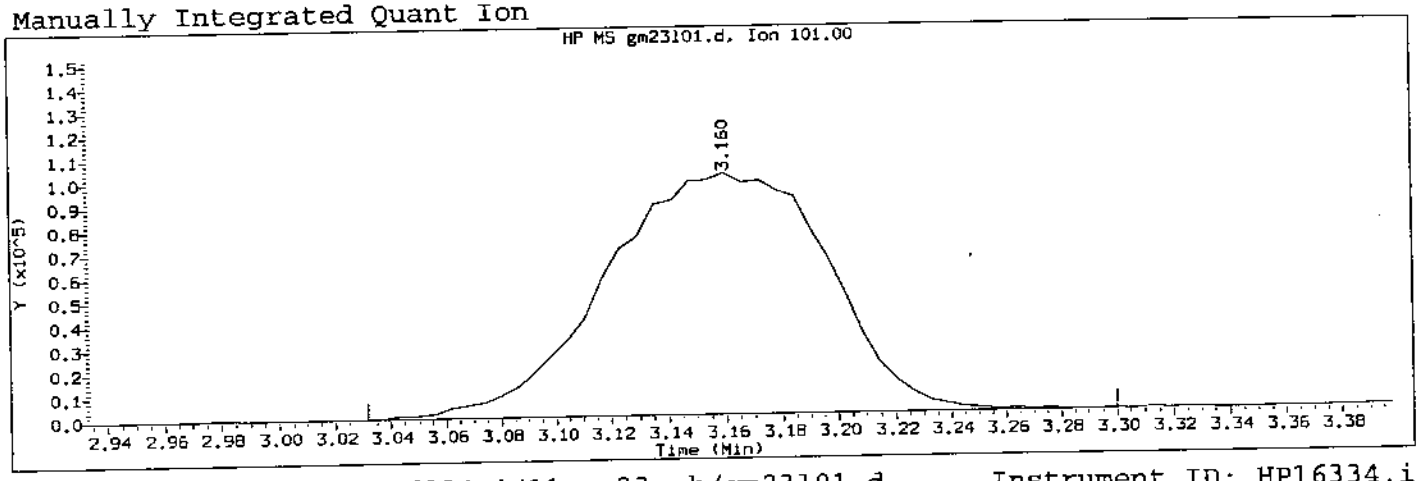
MAT13 0247

Digitally signed by Jason M. Long
on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50

Sublist used: DRAPERREV3

Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16

Lab Sample ID: LFBG16

Compound Number	: 7		
Compound Name	: Trichlorofluoromethane		
Scan Number	: 258		
Retention Time (minutes)	: 3.160		
Quant Ion	: 101.00		
Area (flag)	: 555093M		
On-Column Amount (ng)	: 2.4316		
Integration start scan	: 236	Integration stop scan:	280
Y at integration start	: 0	Y at integration end:	0

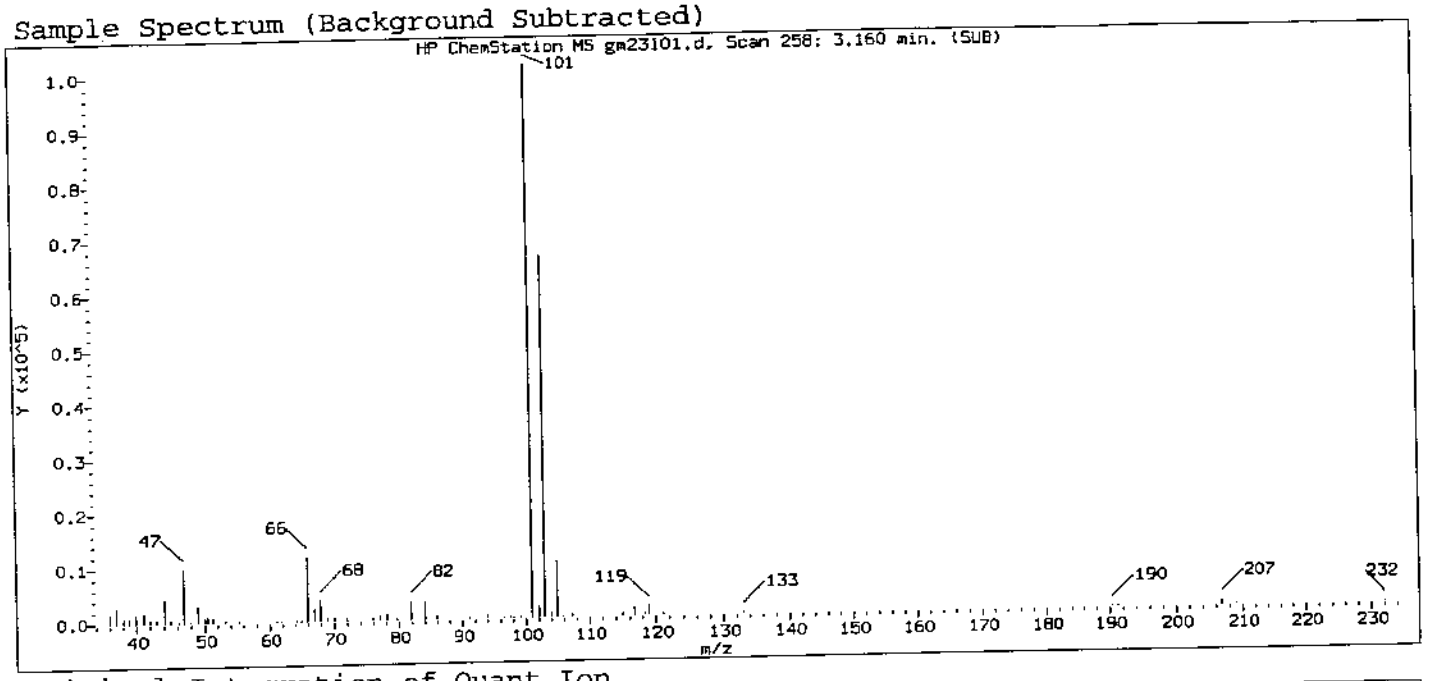
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 10:07. Target 3.5 esignature user ID: jml01693

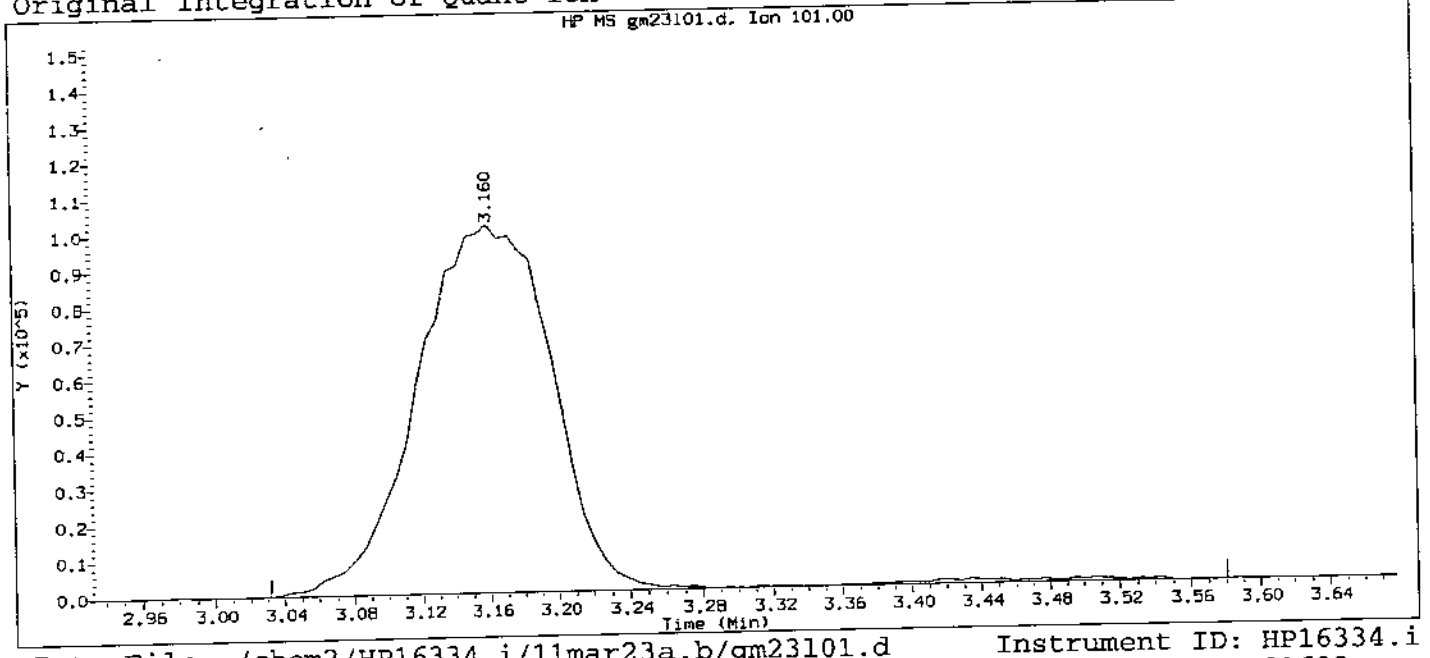
WAT13 8248

GC/MS audit/management approval: LCDJJR 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:48 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 09:50
Date, time and analyst ID of latest file update: 23-Mar-2011 10:06 jml01693

Sample Name: LFBG16 Lab Sample ID: LFBG16

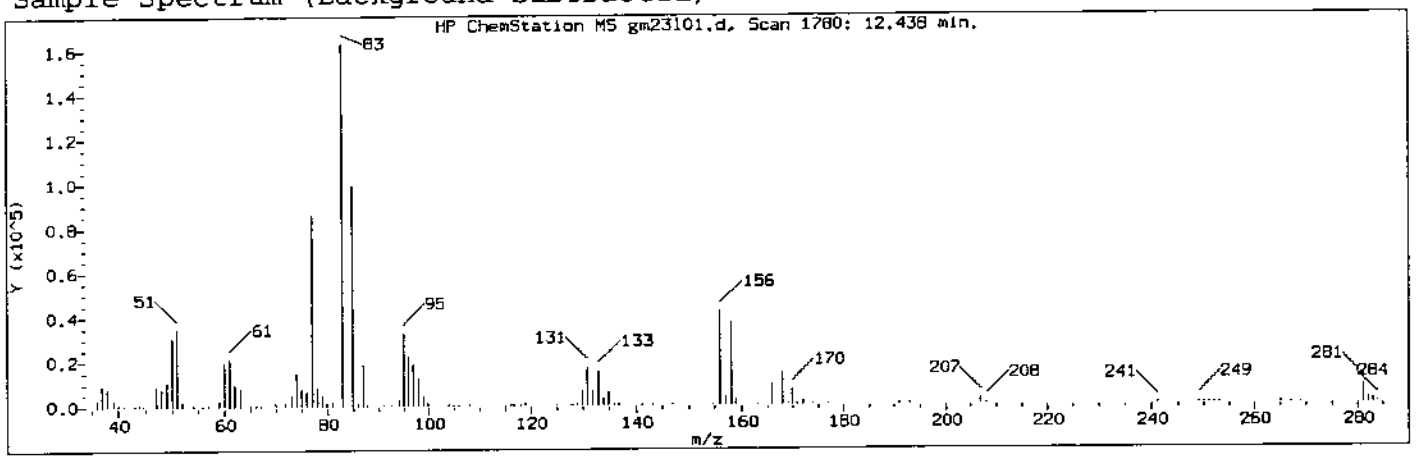
Compound Number	: 7
Compound Name	: Trichlorofluoromethane
Scan Number	: 258
Retention Time (minutes)	: 3.160
Quant Ion	: 101.00
Area	: 563876
On-column Amount (ng)	: 2.4701
Integration start scan	: 236
Y at integration start	: 0

Integration stop scan: 326
Y at integration end: 0

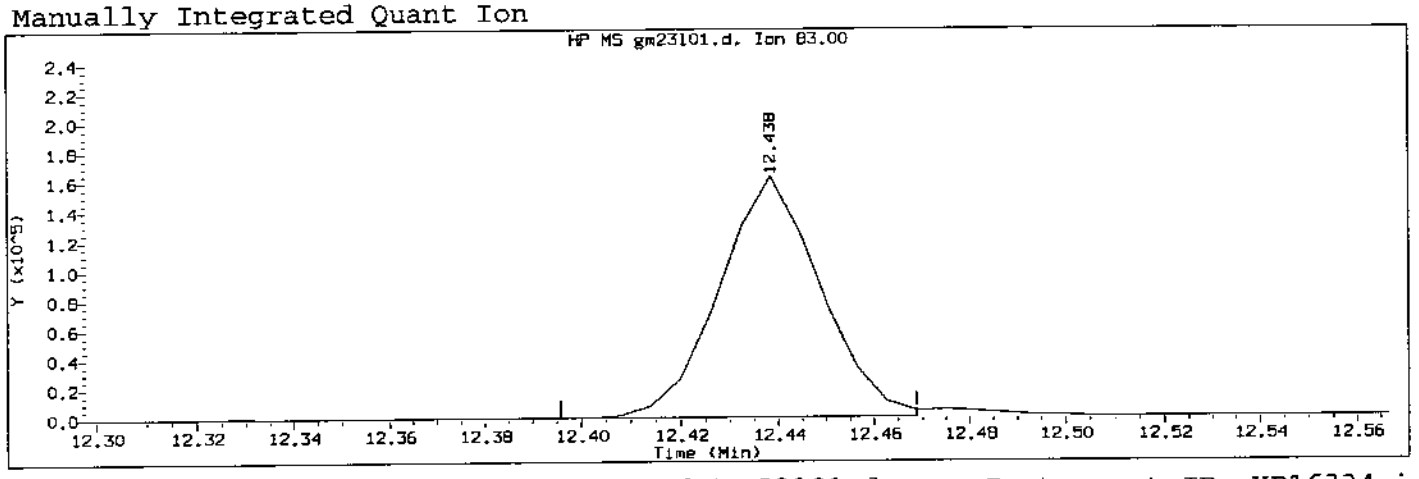
NAT13 8249

Digitally signed by Jason M. Long on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:48 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 09:50
Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sample Name: LFBG16 Lab Sample ID: LFBG16

Compound Number	: 74
Compound Name	: 1,1,2,2-Tetrachloroethane
Scan Number	: 1780
Retention Time (minutes)	: 12.438
Quant Ion	: 83.00
Area (flag)	: 236350M
On-Column Amount (ng)	: 4.6969
Integration start scan	: 1772 Integration stop scan: 1784
Y at integration start	: 0 Y at integration end: 0

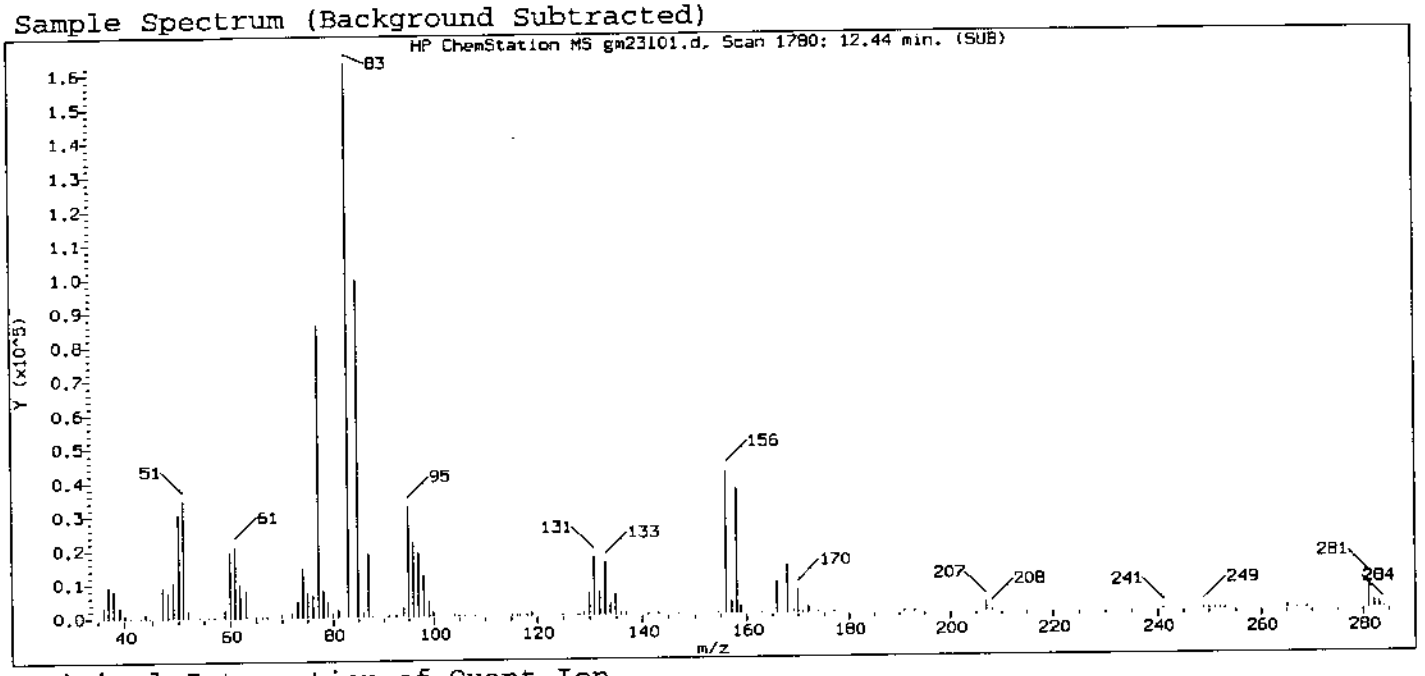
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 10:07. Target 3.5 esignature user ID: jml01693

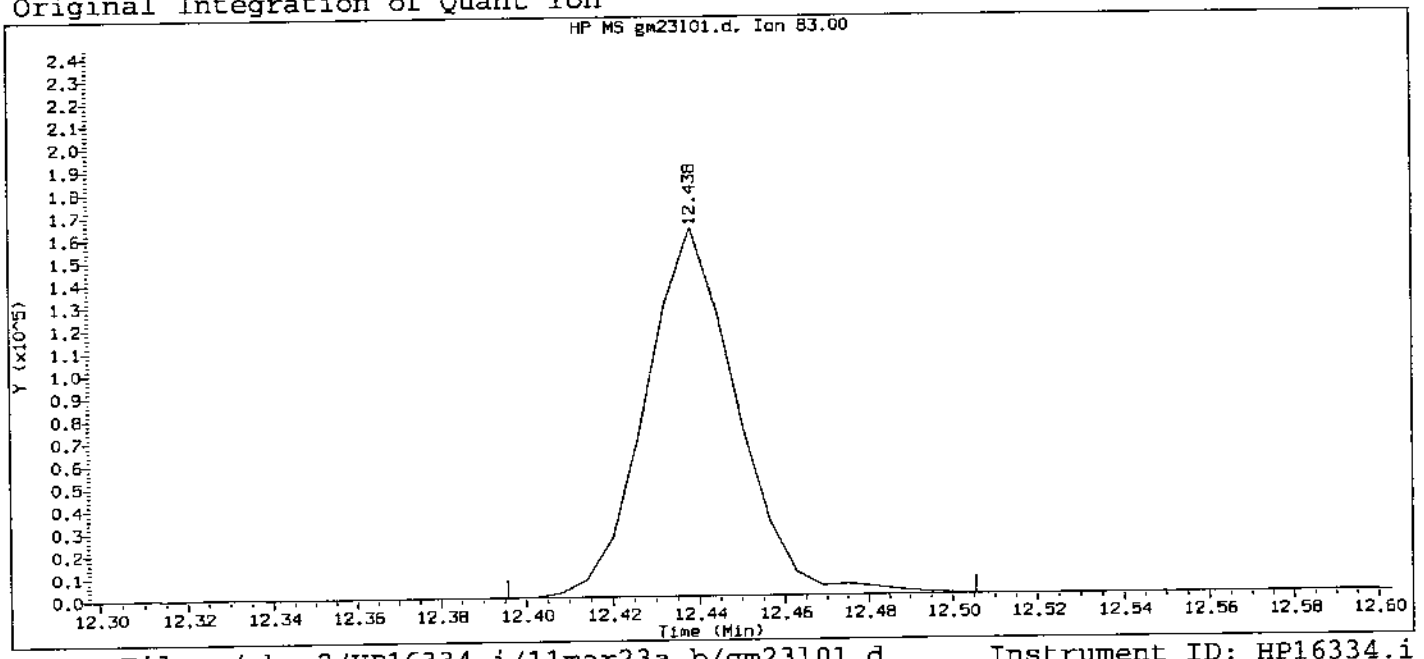
WAT13 8258

GC/MS audit/management approval: LCDDS 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:48 Analyst ID: JML01693

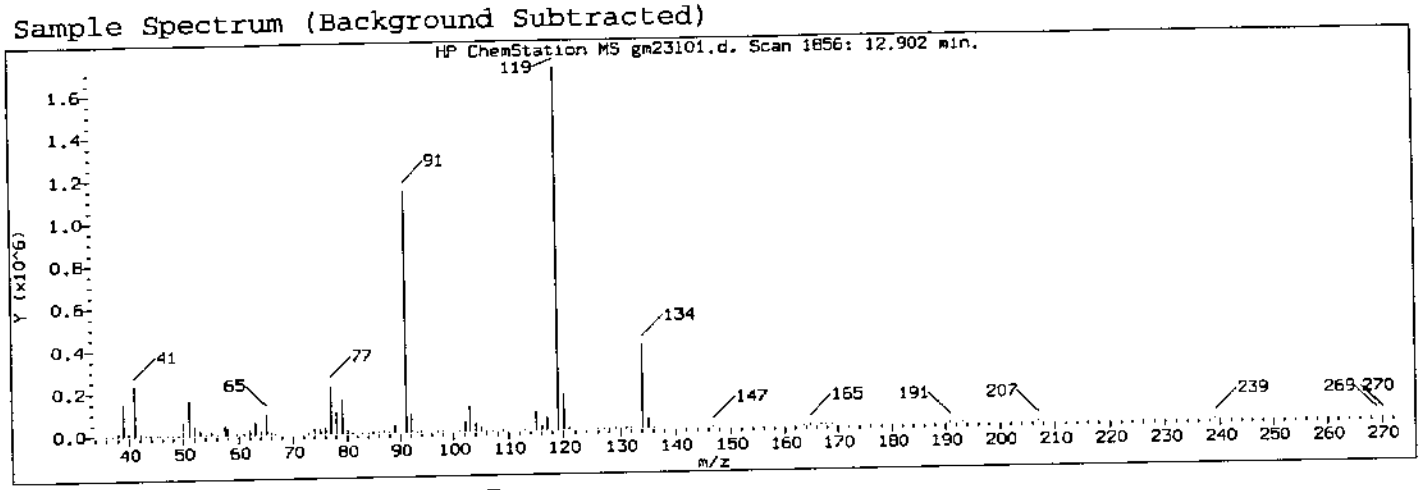
Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 09:50
Date, time and analyst ID of latest file update: 23-Mar-2011 10:06 jml01693

Sample Name: LFBG16 Lab Sample ID: LFBG16

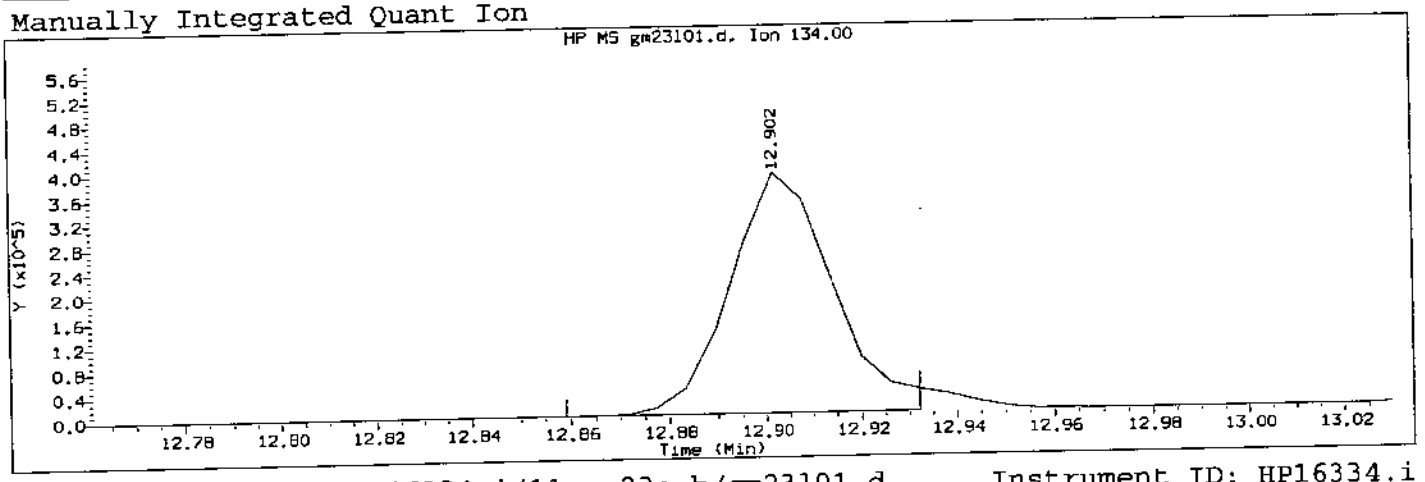
Compound Number : 74
Compound Name : 1,1,2,2-Tetrachloroethane
Scan Number : 1780
Retention Time (minutes): 12.438
Quant Ion : 83.00
Area : 241183
On-column Amount (ng) : 4.7929
Integration start scan : 1772 Integration stop scan: 1790
Y at integration start : 0 Y at integration end: 0

Digitally signed by Jason M. Long on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

Sample Spectrum (Background Subtracted)



Manually Integrated Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d
Injection date and time: 23-MAR-2011 09:48

Instrument ID: HP16334.i
Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m
Calibration date and time: 23-MAR-2011 09:50
Date, time and analyst ID of latest file update: 23-Mar-2011 10:07 jml01693

Sublist used: DRAPERREV3

Sample Name: LFBG16

Lab Sample ID: LFBG16

Compound Number	: 82	
Compound Name	: tert-Butylbenzene	
Scan Number	: 1856	
Retention Time (minutes)	: 12.902	
Quant Ion	: 134.00	
Area (flag)	: 583345M	
On-Column Amount (ng)	: 5.0668	
Integration start scan	: 1848	Integration stop scan: 1860
Y at integration start	: 0	Y at integration end: 0

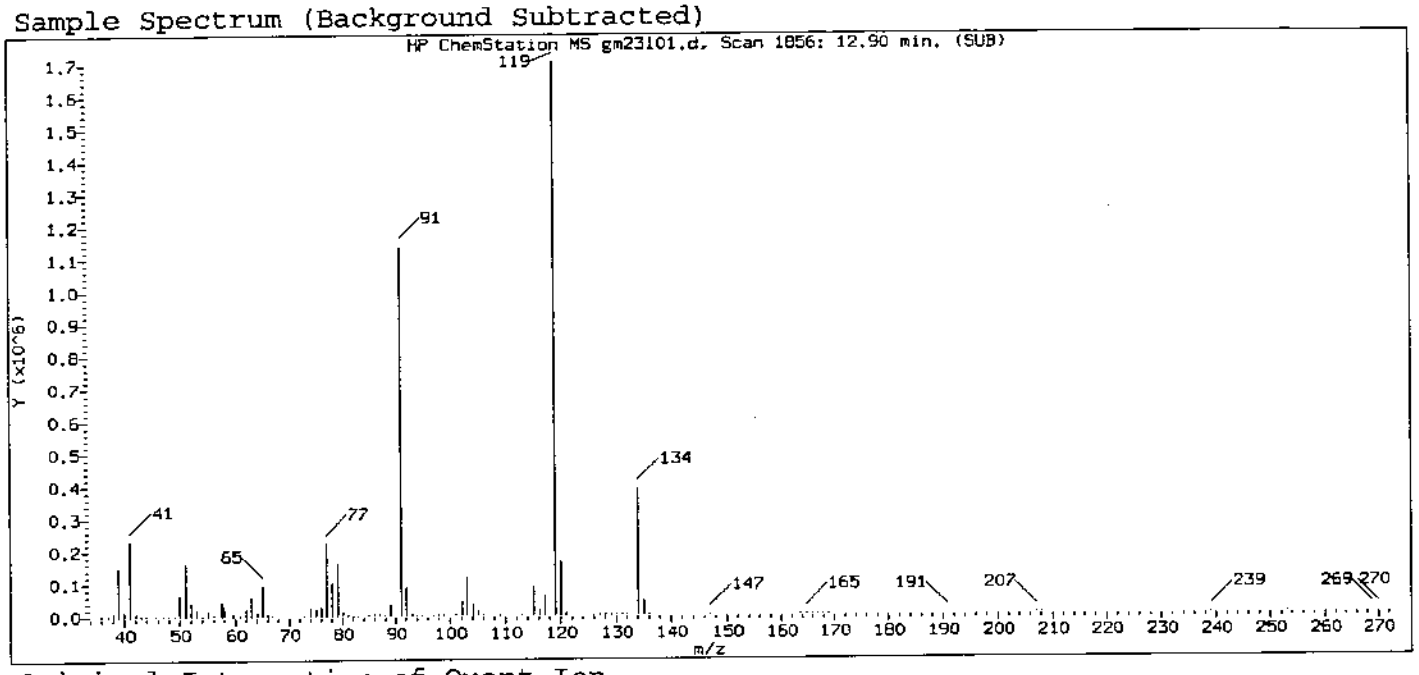
Reason for manual integration: improper integration

Analyst responsible for change: Digitally signed by Jason M. Long on 03/23/2011 at 10:07. Target 3.5 esignature user ID: jml01693

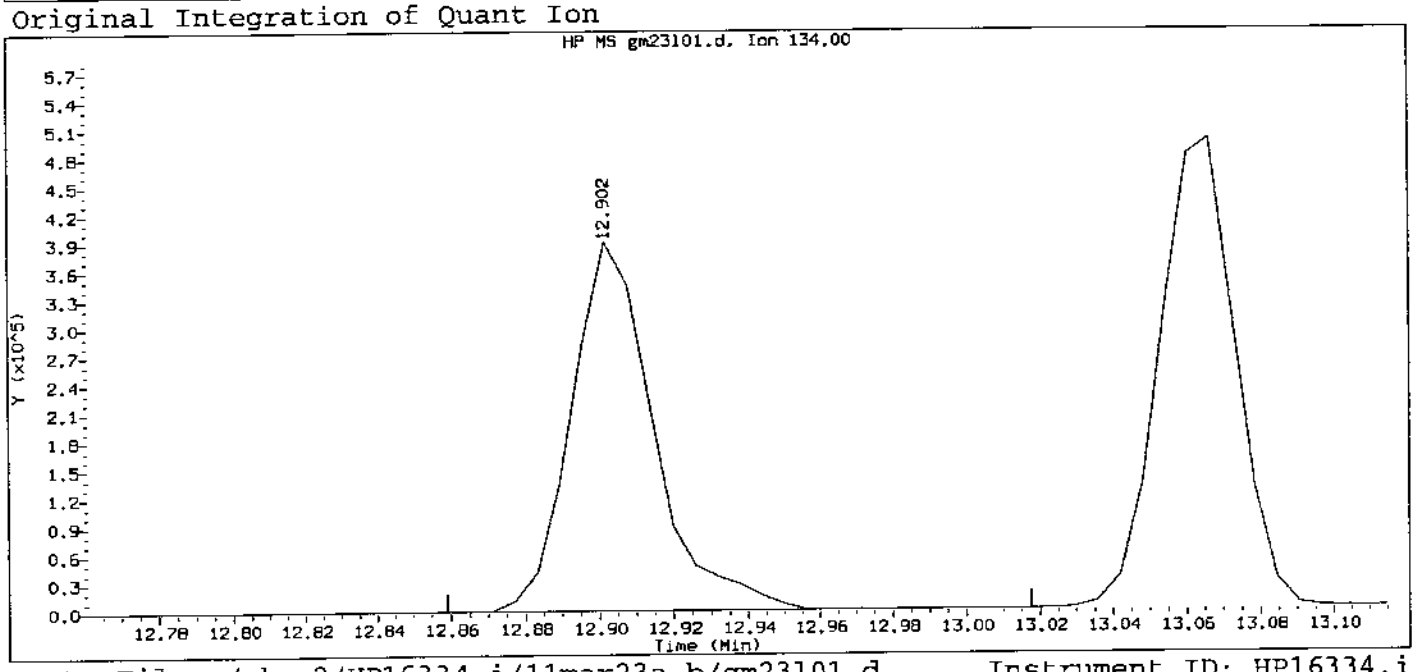
MAT13 8252

GC/MS audit/management approval: LCTD 3/26/11

Sample Spectrum (Background Subtracted)



Original Integration of Quant Ion



Data File: /chem2/HP16334.i/11mar23a.b/gm23101.d Instrument ID: HP16334.i
Injection date and time: 23-MAR-2011 09:48 Analyst ID: JML01693

Method used: /chem2/HP16334.i/11mar23a.b/g524rv4.m Sublist used: DRAPERREV3
Calibration date and time: 23-MAR-2011 09:50
Date, time and analyst ID of latest file update: 23-Mar-2011 10:06 jml01693

Sample Name: LFBG16 Lab Sample ID: LFBG16

Compound Number : 82
Compound Name : tert-Butylbenzene
Scan Number : 1856
Retention Time (minutes): 12.902
Quant Ion : 134.00
Area : 601451
On-column Amount (ng) : 5.2240
Integration start scan : 1848 Integration stop scan: 1874
Y at integration start : 0 Y at integration end: 0

WATI3 6253

Digitally signed by Jason M. Long on 03/23/2011 at 10:07.
Target 3.5 esignature user ID: jml01693

CompuChem

A Division Of

Liberty Analytical Corp.

3/22/2011

JANET FRAZIER

DRAPER

2206 SOUTH MAIN STREET

BLACKSBURG, VA 24060

Subject:

Report of Data - Project: WATAUGA COUNTY LANDFILL 6520-39 WorkOrder: 1103088

Attn.: JANET FRAZIER

Enclosed are the results of analytical work performed in accordance with the referenced account number. This report covers sample(s) appearing on the listing.

Thank you for selecting CompuChem for your sample analysis. If you should have questions or require additional analytical services, please contact your representative at 1-800-833-5097

Sincerely,

Compuchem

a division of Liberty Analytical Corporation

Attachment

TOTAL NUMBER

OF PAGES _____

501 Madison Avenue, Cary, NC 27513 Tel: 919-379-4100 Fax: 919-379-4050

CompuChem, a division of Liberty Analytical

Client: DRAPER **Work:** 1103088

Project: WATAUGA COUNTY LANDFILL 6520-39 **Sdg:** 1103088

Lab ID	Client ID	Matrix	Date Sampled	Date Received
1103088-01	S-1	Water	03/17/2011 08:10	03/18/2011 09:30
1103088-02	S-2	Water	03/17/2011 08:20	03/18/2011 09:30
1103088-03	S-3	Water	03/17/2011 08:35	03/18/2011 09:30
1103088-04	S-4	Water	03/17/2011 08:50	03/18/2011 09:30
1103088-05	S-5	Water	03/17/2011 08:00	03/18/2011 09:30
1103088-06	S-6	Water	03/17/2011 09:05	03/18/2011 09:30
1103088-07	TRIPBLANK	Water	03/15/2011 00:00	03/18/2011 09:30
1103088-08	VHBLKXU	Water	03/15/2011 00:00	03/18/2011 09:30

I. SAMPLE DATA PACKAGE

DOCUMENT SOM01.2

The sample data package shall include data for all analyses of all samples in one Sample Delivery Group (SDG), including field samples, dilutions, reanalyses, blanks, matrix spikes, matrix spike duplicates, and Laboratory Control Samples, if applicable. The sample data package consists of the following:

A. SDG Narrative

B. Traffic Report/Chain of Custody Records (TR/COC)

C. Volatiles Data

D. Semivolatiles Data

E. Pesticides Data

F. Aroclors Data

LAB CODE: LIBRTY	CONTRACT #:
CASE #:	SDG #: 1103088

A. SDG Narrative

CompuChem

A division of Liberty Analytical Corporation
501 Madison Avenue
Cary, N.C. 27513
Tel: 919/379-4100 Fax: 919/379-4050

SDG NARRATIVE
SDG # 1103088
SOW # SOM01.2

SAMPLE IDENTIFICATIONS: S-1, S-2, S-3, S-4, S-5, S-6

The 6 aqueous samples listed above was received intact, properly refrigerated at 2.7 °C, in sealed shipping containers, on March 18, 2011, with proper documentation. Samples were scheduled for the requested analysis of the volatile fraction. The samples were prepared and analyzed following the current EPA Contract Laboratory Program (CLP) Multi-Media, Multi-Concentration Statement of Work (SOW), and Document SOM01.2. All pertinent Quality Assurance Notices are included in the narrative section.

Volatiles

Analysis holding time requirements were met for all of the samples in this SDG.

The pH values of all samples were equal to 1.

There were volatile Project/Target Compound List (TCL) analytes identified above the Contract Required Quantitation Limit (CRQL) in one of these six samples.

No Tentatively Identified Compounds (TICs) were found in these samples.

No Total Alkanes were found in these samples.

All the deuterated monitoring compounds (DMCs) met recovery criteria with no more than three DMCs failing.

All of the internal standards met response and retention time criteria in the analyses of these samples.

In a response to a Statement of Work Interpretation, the Organic Contract Laboratory Program Office stated that if the Mass Spectral Interpretation Specialist determines a TIC to be a laboratory artifact (including artifacts from the DMC solution), there is no need to report it. However, all TICs not reported due to a Mass Spectral Interpretation Specialist's assessment should be noted in the SDG Narrative. There are laboratory artifacts (including artifacts from the DMC solution) not reported on the Forms 1J. The approximate retention time is as follows:
11.12 min. Laboratory artifact
This peak is present in the standards, blanks, and samples.

Manual integrations were performed on one or more of the process files associated with this SDG. Please see the detailed Manual Integration Summary report that is located directly behind the narrative. The reasons have been coded with explanations provided in the notice included in the narrative section of the SDG.

All bromofluorobenzene (BFB) abundance criteria were met for tunes associated to this SDG.

All QC criteria were met for all initial and continuing calibration standards associated to this SDG.

The associated method blanks and the storage blank met all quality control criteria.

No matrix spike/matrix spike duplicate (MS/MSD) samples were requested for the volatile fraction with this SDG.

As per the SOW, an example calculation is attached for Vinyl Chloride-d3 in sample S-1.

I certify that this Sample Data Package complies 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 Sample Data Package and in the Electronic Data Deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Patricia A Murphy

Patricia A. Murphy
Senior Scientist
March 22, 2011

SDG: 1103088

Example Calculation for the Volatile Fraction

RRF Calculation

RRF=(Ax*Cis)/(Ais*Cx)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Cis=Concentration of the internal standard
Cx=Concentration of the compound to be measured

Example: Vinyl chloride-d3 from VSTD050EA

Ax=	232084
Ais=	834550
Cis=	250
Cx=	250
RRF=	0.278

Mean RRF from ICAL 0.275

Concentration Calculation

Concentration(ug/L)=(Ax*Is*Df)/(Ais*RRF*Vo)

Where: Ax=Area of the characteristic ion (EICP) for the compound to be measured
Ais=Area of the characteristic ion (EICP) for the specific internal standard
Is=Amount of the internal standard added, in nanograms
Mean RRF=Relative response factor from the Initial calibration standard
Vo=Total volume of water purged, in milliliters
Df=Dilution factor

Example: Vinyl chloride-d_3 from S-1

Ax=	216272
Ais=	772225
Is=	250
Mean RRF=	0.275
Vo=	5
Df=	1

Concentration(ug/L)= 50.9

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Manual Integration Summary

Client: DRAPER
Work Order: 1103088
Sdg: 1103088
Project: WATAUGA COUNTY LANDFILL 6520-39
Case: 1103088

Analysis: SOM01.2 VOA LOW **Sample Type:** Blank
Lab Id: 1031901-BLK1 **Client Id:** VBLKEA **Instrument:** 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Analysis: SOM01.2 VOA LOW **Sample Type:** Blank
Lab Id: 1031902-BLK1 **Client Id:** VBLKEB **Instrument:** 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Analysis: SOM01.2 VOA LOW **Sample Type:** Field Sample
Lab Id: 1103088-01 **Client Id:** S-1 **Instrument:** 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Analysis: SOM01.2 VOA LOW **Sample Type:** Field Sample
Lab Id: 1103088-03 **Client Id:** S-3 **Instrument:** 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Analysis: SOM01.2 VOA LOW **Sample Type:** Field Sample
Lab Id: 1103088-04 **Client Id:** S-4 **Instrument:** 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Client: DRAPER
Work Order: 1103088
Sdg: 1103088

Project: WATAUGA COUNTY LANDFILL 6520-39
Case: 1103088

Analysis: SOM01.2 VOA LOW
Sample Type: Trip Blank
Lab Id: 1103088-07 **Client Id:** TRIPBLANK
Instrument: 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Analysis: SOM01.2 VOA LOW
Sample Type: Storage Blank
Lab Id: 1103088-08 **Client Id:** VHBLKXU
Instrument: 5975hpms91

Analyte	Type	M Flag
1,4-Dioxane-d8	SURROGATE	M

Sample Total: 1

Total Manual Integrations: 7

GC and GC/MS Column and Trap Specifications Table

SDG #: 1103088

COLUMNS

Columns Utilized	Brand Name	Coating Material	ID (mm)	Film Thickness (um)	Length (m)
	GC Laboratory				
	Restek	RTX-5	0.53	1.0	30
	Restek	RTX-SMS	0.53	1.0	30
√	Restek	clpest	0.32	0.5	30
√	Restek	clpest2	0.32	0.42	30
	J&W	DB-210	0.53	1.0	30
	J&W	GS-GASPRO	0.32	N/A	30
	GC Volatiles Laboratory				
	Restek	RTX-Volatiles	0.53	2.0	30
	GC/MS Volatiles Laboratory				
	Restek	RTX-VMS	0.18	1.0	20
√	Supelco	SPB-624	0.32	1.8	60
	Supelco	SPB-624	0.53	3.0	75
	Phenomonex	ZB-624	0.32	1.8	60
	GC/MS Semivolatiles Laboratory				
√	Restek	RTX-5MS	0.32	0.25	30
	Phenomonex	ZB-5MS	0.32	0.25	30
	HPLC Laboratory				
	Supelco	Supelcosil LC-PAH	4.6	5.0	15 cm
	Supelco	Discovery RP Amide C16	4.6	5.0	25 cm
	Restek	Pinnacle Cyano	4.6	5.0	25 cm
	Restek	Allure C18	4.6	5.0	25 cm

TRAPS

	GC and GC/MS Volatiles Laboratory	
	Supelco J (BETXTRAP™)	* 7.7 cm Carbopack C
		* 1.2 cm Carbopack B
√	Supelco K (Vocarb3000)	* 10 cm of Carbopack B (Graphitized Carbons)
		* 6 cm of Carboxen 1000 (Carbon molecular sieves)
		* 1 cm of Carboxen 1001 (Carbon molecular sieves)

Rev. 28

*This table contains the GC columns (and volatile organic trap) used for the analysis of volatiles, semivolatiles, pesticides, and Aroclors by the requested analytical methods. Please see the SDG Narrative(s) for the specific fraction(s) relative to this SDG.

CompuChem's Pagination Convention

As required by the EPA CLP Statement of Work (SOW) documents, data to be delivered must be paginated (by machine or hand). In the event that the initial numbering is incorrect (a page numbered twice or a page skipped, for example), it is CompuChem's policy to add an alphabetic suffix to a page number when necessary (e.g., 100A, 100B, etc.). This policy is also applicable to non-CLP data packages.

Revision 7 (01/12/2011)

Notification Regarding Manual Editing/Integration Flags

In some instances, manual adjustments to the software output are necessary to provide accurate data. These manual integrations are performed by the data reviewers, GC/MS operators, or GC chemists. An Extracted Ion Current Profile (EICP) or a GC chromatographic peak has been provided for the manual integration performed on each compound to demonstrate the accuracy of that process. The manual integrations are flagged on the quantitation report in the far right column beyond the FINAL concentration for GC/MS analysis, and in the "Flags" column for GC analysis. The manual editing/integration flags are:

M - Denotes that a manual integration has been performed for this compound. The manual integration was performed in order to provide the most accurate area count possible for the peak.

H - Denotes that the data reviewer, GC/MS operator, or GC Chemist has chosen an alternate peak within the retention time window from that chosen by the software for that compound. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

MH - Denotes that an alternate peak has been chosen within the retention time window from that chosen by the software for that compound and also a manual integration of the chosen peak has been performed. The manual integration was performed in order to provide the most accurate area count possible for the peak.

L - Denotes that a data reviewer or GC/MS operator has selected an alternate library search. This is typically done when an additional tentatively identified compound (TIC) has been added to the number of peaks searched. No manual integration is performed in choosing an alternate peak. The software still performs the integration.

ML - Denotes that an alternate library search has been selected and a manual integration has also been performed. This is typically done when an additional TIC has been added and the TIC peak also required a manual integration.

The EPA CLP SOW documents require additional explanations for manual editing/integration. In the accompanying raw data packages, additional codes have been applied to the "M" flag and carry the following meanings;

M1 - The compound was not found by the automatic integration routine.

M2 - The compound was incorrectly integrated by the automatic integration routine.

M3 - The co-eluting compounds were incorrectly integrated by the automatic integration routine.

These codes will appear in the GC/MS and GC raw data.

Revision 7 (12/6/2005)

DATA REPORTING QUALIFIERS

On the appropriate reporting form, under the column labeled "Q" for qualifier, each result is flagged with the specific data reporting qualifiers listed below, as appropriate. Up to five qualifiers may be reported on the appropriate reporting form for each compound. The qualifiers used are:

U : This flag indicates the compound was analyzed for but not detected. The Contract Required Quantitation Limit (CRQL), or reporting limit, will be adjusted to reflect any dilution and, for soils, the percent moisture.

J : This flag indicates an estimated value. The flag is used as detailed below:

1. When estimating a concentration for tentatively identified compounds (TICs) where a response factor of 1:1 is assumed for the TIC analyte,

2. When the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero, and

3. When the retention time data indicate the presence of a compound that meets the pesticide and/or Aroclor or other GC or HPLC identification criteria, and the result is less than the adjusted CRQL (or Reporting Limit) but greater than zero. For example, if the CRQL (or Reporting Limit) is 10 µg/L, but a concentration of 3 µg/L is calculated, it is reported as 3J.

N : This flag indicates presumptive evidence of a compound. This flag is only used for TICs, where the identification is based on a mass spectral library search and must be used with the J flag. For generic characterization of a TIC such as "chlorinated hydrocarbon" (or for an "unknown," with no matches ≥85%), the N flag is not used.

P : In the EPA's Contract Laboratory Program (CLP), this flag is used for a pesticide/Aroclor target analyte, when there is greater than 25% difference for detected concentrations between the two GC columns. The <u>lower</u> of the two values is reported on the Form I and flagged with a P.
For SW-846 GC and HPLC analyses, when the Relative Percent Difference (RPD) is greater than 40% and there is no evidence of chromatographic anomalies or interferences, then the <u>lower</u> of the two values is reported and flagged with a P on the reporting form. When the RPD is equal to or less than 40%, our policy is to also report the <u>lower</u> of the two values, although the choice could be a project specific issue. These SW-846 policies are consistent with Method 8000C. If Method 8000B is required, the <u>higher</u> of the two values is reported. For certain HPLC analyses, if one of the HPLC columns displays co-elution of target analytes, all results are reported from a primary column displaying no co-elution. Results are still flagged with a P if the RPD between columns is greater than 40%.

C : This flag applies to GC or HPLC results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, this flag is not applied; a laboratory-defined flag is used instead (see the X/Y/Z qualifier.)

DATA REPORTING QUALIFIERS (continued)

B : This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates probable blank contamination and warns the data user to take appropriate action. This flag is used for a TIC as well as for a positively identified target compound. The combination of flags BU or UB is not an allowable policy. Blank contaminants are flagged B only when they are detected in the sample.

E : This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis. If one or more compounds have a concentration greater than the upper level of the calibration range, the sample or extract will be diluted and reanalyzed. All such compounds with a concentration greater than the upper level of the calibration range will have the result flagged with an E on the appropriate reporting form for the original analysis.

D : If a sample or extract is reanalyzed at a higher dilution factor, for example when the concentration of an analyte exceeds the upper calibration range, the DL suffix is appended to the sample number on the appropriate reporting form for the more diluted sample, and **all** reported concentrations on that form are flagged with the D flag. This flag alerts data users that any discrepancies between the reported concentrations may be due to dilution of the sample or extract.

NOTE 1: The D flag is not applied to compounds which are not detected in the sample analysis i.e. compounds reported with the CRQL (or Reporting Limit) and the U flag.

NOTE 2: Separate reporting forms are used for reporting the original analysis (Client Sample No. XXXXX) and the more diluted sample analysis (Client Sample No. XXXXXDL) i.e. the results from both analyses <u>are not combined</u> on a single reporting form.

A: This flag indicates that a TIC is a suspected aldol-condensation product.

S: In the SOM01.2 SOW document, this flag is used to indicate an estimated value for Aroclor target compounds where a valid 5-point initial calibration was not performed prior to the analytes detection in a sample. If an "S" flag is used for a specific Aroclor, then a reanalysis of the sample is required after a valid 5-point calibration is performed for the detected Aroclor. The "S" flag is not utilized for non CLP analyses.

X/Y/Z : Other specific flags may be required to properly define the results. If used, the flags will be fully described in the SDG Narrative. The laboratory-defined flags are limited to X, Y, and Z.

Revision 13 (01-12-2011)

B. Traffic Report/Chain of Custody Records (TR/COC)

The contractor shall include a copy of the TR/COCs for all of the samples in the SDG. The TR/COCs shall be arranged in increasing EPA sample number order, considering both letters and numbers.

In any instance where samples from more than one multi-sample TR/COC are in the same data package, the Contractor shall submit a copy of the SDG cover sheet with copies of the TR/COCs.

CHAIN OF CUSTODY RECORD

15

Laboratory: CompuChem Environmental Corp., Liberty Analytical 501 Madison Ave. Cary, NC 27513 (800) 833 5097 Fax (919) 379-4050 Attn: Cathy Dover

KW 3/7/11

Client: Watauga County, NC **Attn:** Mr. J.V. Potter **Address:** 842 West King Street?/Courthouse, Suite 1 Boone, NC 28607 **Phone:** (828) 264-5305 **Fax:** 0 **Fax:** 0	**Consultant:** Draper Aden Associates **Attn:** Janet C. Frazier **Address:** 2206 South Main Street Blacksburg, Virginia 24060 **Phone:** (540) 552-0444 **Fax:** (540) 552-0291	**Sample Site:** Watauga County Landfill **Location:** Watauga County, NC **Event:** March 2011 Semiannual Assess. Monitoring Event **DAA JN:** 6520-39 **Lab JN:**	Project Specific (PS) or Batch (B) QC: **Sample Collection for Project Complete?** YES **Carrier:** **Tracking Number:**

Box 1: Matrix		Box 2: Preservative		Box 3: Filtered/Unfiltered	Box 4: Sample Type	Invoice
SW Surface Water	T Trip Blank	A HCL	E NaOH	F Filtered	G Grab	Copy to Consultant: YES
GW Groundwater	E Equipment Blank	B HNO_3	F ZnAc	U Unfiltered	C Composite	Bill: CLIENT OTHER
L Leachate	P Product	C H_2SO_4	G Other (Specify)	**Box 5: Sample Container Type**		Preserved and shipped on Ice: YES
S Soil	O Other	D $Na_2S_2O_3$	H None	P Plastic V VOA AG Amber Glass CG Clear Glass		

GENERAL NOTES:

1. Level 4 deliverables with EDD & PDF.

Box 4 - Sample Type					G								
Box 3 - Filtered/Unfiltered					U								
Required pH of Sample					<2								
Box 2 - Preservative					A								
Box 5 - Sample Container Type					3-40ml V								
Sample ID	**Date: 2011**	**Time**	**Box 1: Matrix**	**Number of Bottles**	**CLP VOLATILES I SOM0 1.2 - Medium Level VOC**								
S-1	3/17	0810	SW	3	X			1103088-01					
S-2	3/17	0820	SW	3	X				-02				
S-3	3/17	0835	SW	3	X				-03				
S-4	3/17	0850	SW	3	X				-04				
S-5	3/17	0800	SW	3	X				-05				
S-6	3/17	0905	SW	3	X				-06				
Trip Blank	3/15		TB	3	X				-07				No time provided by lab - CJB

Clients Special Instructions: Level 4 deliverables w/ EDD & PDF.

Received by lab in Good Condition ✓ Yes ____ No Custody Seal Intact ✓ Yes ____ No Temperature upon arrival 2.1°C Received on Ice ✓ Yes ____ No

Describe problems, if any: IR GW SN0015

VHBLKXU → 1103088-08

Sampler Name (Print): Chris Branscome	Date: 3/15/11	#1 Relinquished by (Signature): Chris Branscome	Date: 3/17/11	#2 Relinquished by (Signature):	Date:	Sample Storage Time Requested:
Sampler Signature: Chris Branscome	Time: 1700 CJB 1700	Company Name: Draper Aden Assoc.	Time: 17:00	Company Name:	Time:	
Sampler Name (Print): Dale Slaughter	Date: 3/15/11	#1 Received by (Signature): Jean Purdie	Date: 3/18/11	#2 Received by (Signature):	Date:	30 DYS ORG/6 MTHS INORG
Sampler Signature: DAA	Time: 1700	Company Name: CompuChem	Time: 930	Company Name:	Time:	

JVK 3/8/2011 JVK 3/7/11

page 2 of 6. KW 3/7/11

ANALYTICAL METHODS: CLP SOM0 1.2 (Medium Level VOC)
TYPE METHOD: CLP
CLASS: VOLATILE

Run for Surface Locations: S-1, S-2, S-3, S-4, S-5, S-6 & Trip Blank:

No.	PARAMETER	CAS RN
1	Benzene	71-43-2
2	Chloroethane (ethyl chloride)	75-00-3
3	Dichlorodiflurometh ane	75-71-8
4	1,1-dichloroethane	75-34-3
5	1,1-dichloroethylene (vinylidene chloride)	75-35-4
6	cis-1,2-dichloroethylene	156-59-2
7	trans-1,2-dichloroethylene	156-60-5
8	Tetrachloroethylene	127-18-4
9	Trichloroethylene	79-01-6
10	Methylene chloride	75-09-2
11	Vinyl chloride	75-01-4
12	1,1,1-trichloroethane	71-55-6
13	Chlorobenzene	108-90-7
14	1,4 – dichlorobenzene	106-46-7
15	1,2 – dichloroethane	107-06-2
16	1,2 – dichloropropane	78-87-5

Updated: 2/24/2009 - JCF

VOA Internal Chain of Custody Sheet

Matrix Water **Batch**: 1031818 **Status:** Batched **Analysis**: SOM01.2 VOA LOW

Lab Id	Client Id	Received	Container	Extraction
1103088-01 A	S-1	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-02 A	S-2	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-03 A	S-3	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-04 A	S-4	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-05 A	S-5	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-06 A	S-6	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-07 A	TRIPBLANK	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B
1103088-08 A	VHBLKXU	03/18/11	01b_40mL VOA, cool, H	SW 5030A/5030B

Relinquished By	Date/Time	Received By	Date/Time
#2B	3-19-11	B	3-19-11
B	3-19-11	#2B	3-19-11

PM 3-22-11

WORK ORDER

Printed: 3/18/2011 4:30:57PM

1103088

COMPUCHEM

Client:	**DRAPER**	**Project Manager:**	**Cathy Dover**
Project:	**WATAUGA COUNTY LANDFILL 6520-39**	**Project Number:**	**WATAUGA COUNTY LANDFILL 6520-39**
SDG:	**1103088** **CASE:**	**Status:**	**Received**

Report To:
DRAPER
JANET FRAZIER
2206 SOUTH MAIN STREET
BLACKSBURG, VA 24060
Phone: (540)552-0444
Fax: -

Invoice To:
WATAUGA COUNTY, NC
MR. J.V. POLTER
842 WESTKING STREET/COURTHOUSE, SUITE 1
BOONE, NC 28607
Phone :-
Fax: -

Date Due:	04/07/2011 00:00 (20 day TAT)		
Received By:	Cathy Dover	Date Received:	03/18/2011 09:30
Logged In By:	Cathy Dover	Date Logged In:	03/18/2011 15:40

J & B Flags?: **YES** Metals ND to? **MDL**	TICS?: **EPA-TICS** Spike Level: **FULL Spike**	Deliverable: **Style 9**	EDD : **36) DRAPER ACCESS**

SOM01.2 VOC LOW* RPT. WATAUGA.SUB

Analysis	Due	TAT	Expires	Received	Comments
1103088-01 S-1 [Water] Sampled 03/17/2011 08:10 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-02 S-2 [Water] Sampled 03/17/2011 08:20 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-03 S-3 [Water] Sampled 03/17/2011 08:35 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-04 S-4 [Water] Sampled 03/17/2011 08:50 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-05 S-5 [Water] Sampled 03/17/2011 08:00 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-06 S-6 [Water] Sampled 03/17/2011 09:05 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-07 TRIPBLANK [Water] Sampled 03/15/2011 00:00 Eastern					
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	
1103088-08 VHBLKXU [Water] Sampled 03/15/2011 00:00 Eastern					**SOM01.2 LOW STORAGE BLK**
SOM01.2 VOA LOW	04/07/2011 16:00	20	03/28/2011 09:30	03/18/2011 09:30	

C. Volatile Data

1. Q C Summary
2. Sample Data
3. Standards Data
4. Raw Q C Data
5. Trace SIM Data (Optional)

LAB CODE: LIBRTY

CONTRACT #:

CASE #:

SDG #: 1103088

1. Q C Summary

a. Deuterated Monitoring Compound (DMC) Recovery
(Form II VOA)

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III VOA)

c. Method Blank Summary
(Form IV VOA)

d. GC/MS Instrument Performance Check
(Form V VOA)

e. Internal Standard Area and RT Summary
(Form VIII VOA)

a. Deuterated Monitoring Compound (DMC) Recovery (Form II VOA)

2A - FORM II VOA-1
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC1 (VCL) #	VDMC2 (CLA) #	VDMC3 (DCE) #	VDMC4 (BUT) #	VDMC5 (CLF) #	VDMC6 (DCA) #	VDMC7 (BEN) #
01	S-1	102	105	83	61	99	105	105
02	S-2	101	106	82	63	100	106	103
03	S-3	102	108	84	60	100	106	106
04	S-4	103	107	84	63	101	107	106
05	S-5	104	109	84	61	101	106	105
06	S-6	102	106	83	61	100	106	104
07	TRIPBLANK	104	108	84	60	101	108	107
08	VBLKEA	100	106	82	89	101	103	109
09	VBLKEB	105	111	85	69	101	108	107
10	VHBLKXU	111	115	90	54	104	109	106
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

		QC LIMITS
VDMC1	(VCL) = Vinyl chloride-d3	(65-131)
VDMC2	(CLA) = Chloroethane-d5	(71-131)
VDMC3	(DCE) = 1,1-Dichloroethene-d2	(55-104)
VDMC4	(BUT) = 2-Butanone-d5	(49-155)
VDMC5	(CLF) = Chloroform-d	(78-121)
VDMC6	(DCA) = 1,2-Dichloroethane-d4	(78-129)
VDMC7	(BEN) = Benzene-d6	(77-124)

Column to be used to flag recovery values
* Values outside of contract required QC limits

Page 1 of 1

2B - FORM II VOA-2
WATER VOLATILE DEUTERATED MONITORING COMPOUND RECOVERY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Level: (TRACE or LOW) LOW

	EPA SAMPLE NO.	VDMC8 (DPA) #	VDMC9 (TOL) #	VDMC10 (TDP) #	VDMC11 (HEX) #	VDMC12 (DXE) #	VDMC13 (TCA) #	VDMC14 (DCZ) #	TOT OUT
01	S-1	100	104	101	78	95	100	107	0
02	S-2	100	104	100	77	93	100	106	0
03	S-3	101	105	100	77	96	99	107	0
04	S-4	102	106	102	80	94	102	108	0
05	S-5	101	105	100	78	90	101	107	0
06	S-6	99	104	99	76	91	100	106	0
07	TRIPBLANK	102	107	100	77	88	102	108	0
08	VBLKEA	104	108	102	93	83	95	107	0
09	VBLKEB	102	107	99	80	79	98	108	0
10	VHBLKXU	99	106	95	69	85	96	107	0
11									
12									
13									
14									
15									
16									
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30									

	QC LIMITS
VDMC8 (DPA) = 1,2-Dichloropropane-d6	(79-124)
VDMC9 (TOL) = Toluene-d8	(77-121)
VDMC10 (TDP) = trans-1,3-Dichloropropene-d4	(73-121)
VDMC11 (HEX) = 2-Hexanone-d5	(28-135)
VDMC12 (DXE) = 1,4-Dioxane-d8	(50-150)
VDMC13 (TCA) = 1,1,2,2-Tetrachloroethane-d2	(73-125)
VDMC14 (DCZ) = 1,2-Dichlorobenzene-d4	(80-131)

Column to be used to flag recovery values
* Values outside of contract required QC limits
Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Page 1 of 1

b. Matrix Spike/Matrix Spike Duplicate Recovery
(Form III VOA)

c. Method Blank Summary (Form IV VOA)

If more than a single form is necessary, forms shall be arranged in chronological order by date of analysis of the blanks and by instrument.

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Lab File ID: 1031901-BLK1R91.d Lab Sample ID: 1031901-BLK1

Instrument ID: 5975hpms91

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/19/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 0533

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	S-1	1103088-01	1103088-0191.d	0926
02	S-2	1103088-02	1103088-0291.d	0955
03	S-3	1103088-03	1103088-0391.d	1024
04	S-4	1103088-04	1103088-0491.d	1053
05	S-5	1103088-05	1103088-0591.d	1122
06	S-6	1103088-06	1103088-0691.d	1152
07	TRIPBLANK	1103088-07	1103088-0791.d	1221
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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22				
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29				
30				

COMMENTS:

4A - FORM IV VOA
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLKEB

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Lab File ID: 1031902-BLK1R91.d Lab Sample ID: 1031902-BLK1

Instrument ID: 5975hpms91

Matrix: (SOIL/SED/WATER) WATER Date Analyzed: 03/19/2011

Level: (TRACE or LOW/MED) LOW Time Analyzed: 1417

GC Column: SPB-624 ID: 0.32 (mm) Heated Purge: (Y/N) N

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	VHBLKXU	1103088-08	1103088-0891.d	2006
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
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30				

COMMENTS:

d. GC/MS Instrument Performance Check (Form V VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

5A - FORM V VOA
VOLATILE ORGANIC INSTRUMENT
PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

EPA SAMPLE NO.

BFBEA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Lab File ID: 1C19001-TUN191.d BFB Injection Date: 03/19/2011

Instrument ID: (5975hpms91 BFB Injection Time: 0217

GC Column: SPB-624 ID: 0.32 (mm)

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.7
75	30.0 - 80.0% of mass 95	51.7
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	0.6 (0.8)1
174	50.0 - 120% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.1 (7.3)1
176	95.0 - 101% of mass 174	68.7 (98.1)1
177	5.0 - 9.0% of mass 176	4.2 (6.1)2

1 - Value is %mass 174 2 - Value is %mass 176

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010EA	1C19001-CAL2	C19001-CAL2.(	03/19/2011	0237
02	VSTD005EA	1C19001-CAL1	C19001-CAL1.(	03/19/2011	0306
03	VSTD200EA	1C19001-CAL5	C19001-CAL5.(	03/19/2011	0336
04	VSTD100EA	1C19001-CAL4	C19001-CAL4.(	03/19/2011	0405
05	VSTD050EA	1C19001-CAL3	C19001-CAL3.(	03/19/2011	0434
06	VBLKEA	1031901-BLK1	31901-BLK1R91	03/19/2011	0533
07	S-1	1103088-01	103088-0191.(	03/19/2011	0926
08	S-2	1103088-02	103088-0291.(	03/19/2011	0955
09	S-3	1103088-03	103088-0391.(	03/19/2011	1024
10	S-4	1103088-04	103088-0491.(	03/19/2011	1053
11	S-5	1103088-05	103088-0591.(	03/19/2011	1122
12	S-6	1103088-06	103088-0691.(	03/19/2011	1152
13	TRIPBLANK	1103088-07	103088-0791.(	03/19/2011	1221
14	VSTD050EB	1C19001-CCV1	19001-CCV1R91	03/19/2011	1319
15	VBLKEB	1031902-BLK1	31902-BLK1R91	03/19/2011	1417
16	VHBLKXU	1103088-08	103088-0891.(	03/19/2011	2006
17	VSTD050EC	1C19001-CCV2	19001-CCV291	03/19/2011	2035
18					
19					
20					
21					
22					

e. Internal Standard Area and RT Summary (Form VIII VOA)

If more than a single form is necessary, forms shall be arranged in chronological order, by instrument.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EA Date Analyzed: 03/19/2011

Lab File ID (Standard): 1C19001-CAL3.d Time Analyzed: 0434

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	820306	12.40	834550	10.18	447649	14.04
	UPPER LIMIT	1640612	12.90	1669100	10.68	895298	14.54
	LOWER LIMIT	410153	11.90	417275	9.68	223825	13.54
	EPA SAMPLE NO.						
01	VSTD010EA	782704	12.40	794392	10.18	421149	14.04
02	VSTD005EA	777361	12.40	794834	10.18	411071	14.04
03	VSTD200EA	850727	12.40	855877	10.17	466403	14.04
04	VSTD100EA	837304	12.40	854734	10.17	455888	14.04
05	VBLKEA	771957	12.40	791660	10.18	398327	14.04
06	S-1	770398	12.40	772225	10.18	390996	14.04
07	S-2	786034	12.40	773877	10.17	404125	14.04
08	S-3	764947	12.40	766883	10.18	396197	14.04
09	S-4	763738	12.40	768257	10.17	391816	14.04
10	S-5	763048	12.40	763781	10.17	390717	14.04
11	S-6	770317	12.40	765933	10.17	390559	14.04
12	TRIPBLANK	757556	12.40	760738	10.18	395051	14.04
13	VSTD050EB	803985	12.40	790858	10.17	442826	14.04
14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

8A - FORM VIII VOA
VOLATILE INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

GC Column: SPB-624 ID: 0.32 (mm) Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EB Date Analyzed: 03/19/2011

Lab File ID (Standard): LC19001-CCV1R91.c Time Analyzed: 1319

Instrument ID: 5975hpms91 Heated Purge: (Y/N) N

		IS1 (CBZ) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (DCB) AREA #	RT #
	12 HOUR STD	803985	12.40	790858	10.17	442826	14.04
	UPPER LIMIT	1607970	12.90	1581716	10.67	885652	14.54
	LOWER LIMIT	401993	11.90	395429	9.67	221413	13.54
	EPA SAMPLE NO.						
01	VBLKEB	764350	12.40	760173	10.17	394691	14.04
02	VHBLKXU	742823	12.40	725787	10.17	385226	14.04
03	VSTD050EC	782298	12.40	749838	10.17	440014	14.04
04							
05							
06							
07							
08							
09							
10							
11							
12							
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14							
15							
16							
17							
18							
19							
20							
21							
22							

IS1 (CBZ) = Chlorobenzene-d5
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = 200% (Low-Medium Volatiles) and 140% (Trace Volatiles) of internal standard area

AREA LOWER LIMIT = 50% (Low-Medium Volatiles) and 60% (Trace Volatiles) of internal standard area

RT UPPER LIMIT = + 0.50 (Low-Medium Volatiles) and + 0.33 (Trace Volatiles) minutes of internal standard RT

RT LOWER LIMIT = - 0.50 (Low-Medium Volatiles) and - 0.33 (Trace Volatiles) minutes of internal standard RT

Column used to flag values outside contract required QC limits with an asterisk.

2. Sample Data

Sample data shall be arranged in packets with the Organic Analysis Data Sheet (Form I, VOA-1, VOA-2 and Form I VOA-TIC), followed by the raw data for volatile samples. These sample packets shall be placed in increasing EPA Sample ID number order, considering both letters and numbers.

a. Target Compound Results
(Form I, VOA-1, VOA-2)
Tabulated results (identification and quantitation) shall be included.

b. Tentatively Identified Compounds (Form I VOA-TIC)
Lists up to 30 organic compounds that are not target compounds, DMCs or internal standard compounds, or alkanes and are not listed on the volatile and semivolatile target compound list. This form shall be included even if no compounds are found.

c. Reconstructed Total Ion Chromatograms
Include for each sample or sample extract, including dilutions and reanalyses. The RIC shall contain the following header information: EPA Sample Number, date and time of analysis, GC/MS instrument identifier, lab file identifier, and analyst ID.

d. Quantitation Report showing calculations for TCL analytes
- Include a printout of the EICP for all manual changes to all compounds, internal standards, and system monitoring compounds.

e. Copies of raw spectra and copies of background-subtracted mass spectra of TCL analytes identified in the sample.
- The spectra shall include the following information: EPA Sample Number, Lab file ID, date and time of analysis, and instrument ID.
- The compound name must be clearly marked.

f. Quantitation Report showing calculations for TICs

g. Copies of mass spectra of organic compounds not listed in Exhibit C with associated best-match spectra.

Spectra shall be labeled as follows: EPA Sample ID number, lab file ID, date and time of analysis, and instrument ID. The compound name must be clearly marked.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0191.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-1

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-01

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0191.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

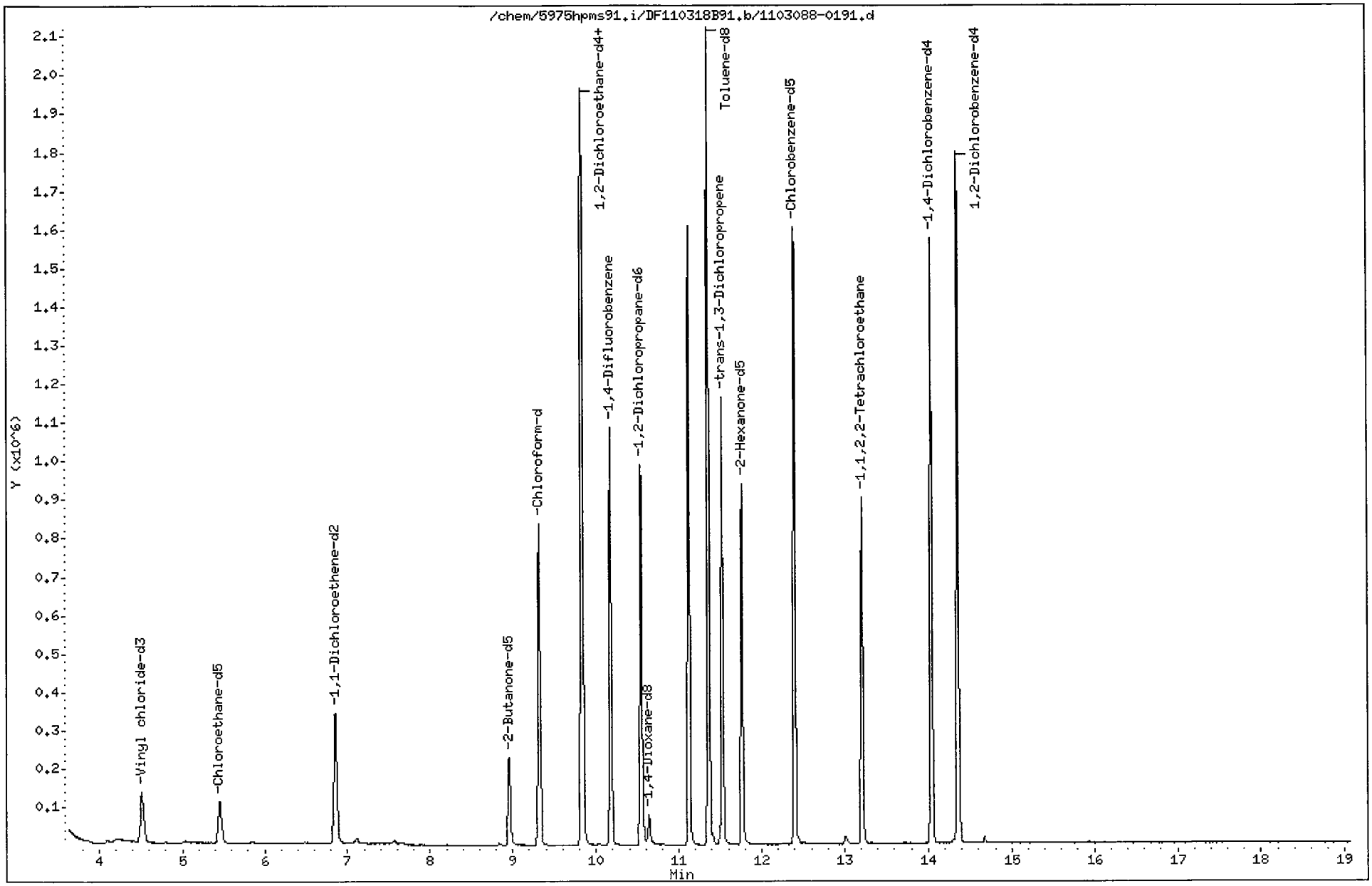
CONCENTRATION UNITS:(ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Date : 19-MAR-2011 09:26
Client ID: S-1
Sample Info: 1103088-01:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Lab Smp Id: 1103088-01 Client Smp ID: S-1
Inj Date : 19-MAR-2011 09:26
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-01:TD
Misc Info : S-1
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	772225	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	770398	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	390996	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	216272	254.919	50.9838
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	156966	262.403	52.4807
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	313800	208.060	41.6120
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	286862	306.943	61.3885
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	665313	247.229	49.4458
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	461310	262.587	52.5175
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1332795	261.379	52.2758
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	394738	248.937	49.7875
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1247424	259.177	51.8354
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	540178	252.220	50.4440
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	273682	392.145	78.4291
$ 15 1,4-Dioxane-d8	96	10.641	10.642	(1.046)	61135	4732.92	946.583(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	453729	250.177	50.0354

mid 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	479123	267.820	53.5641
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

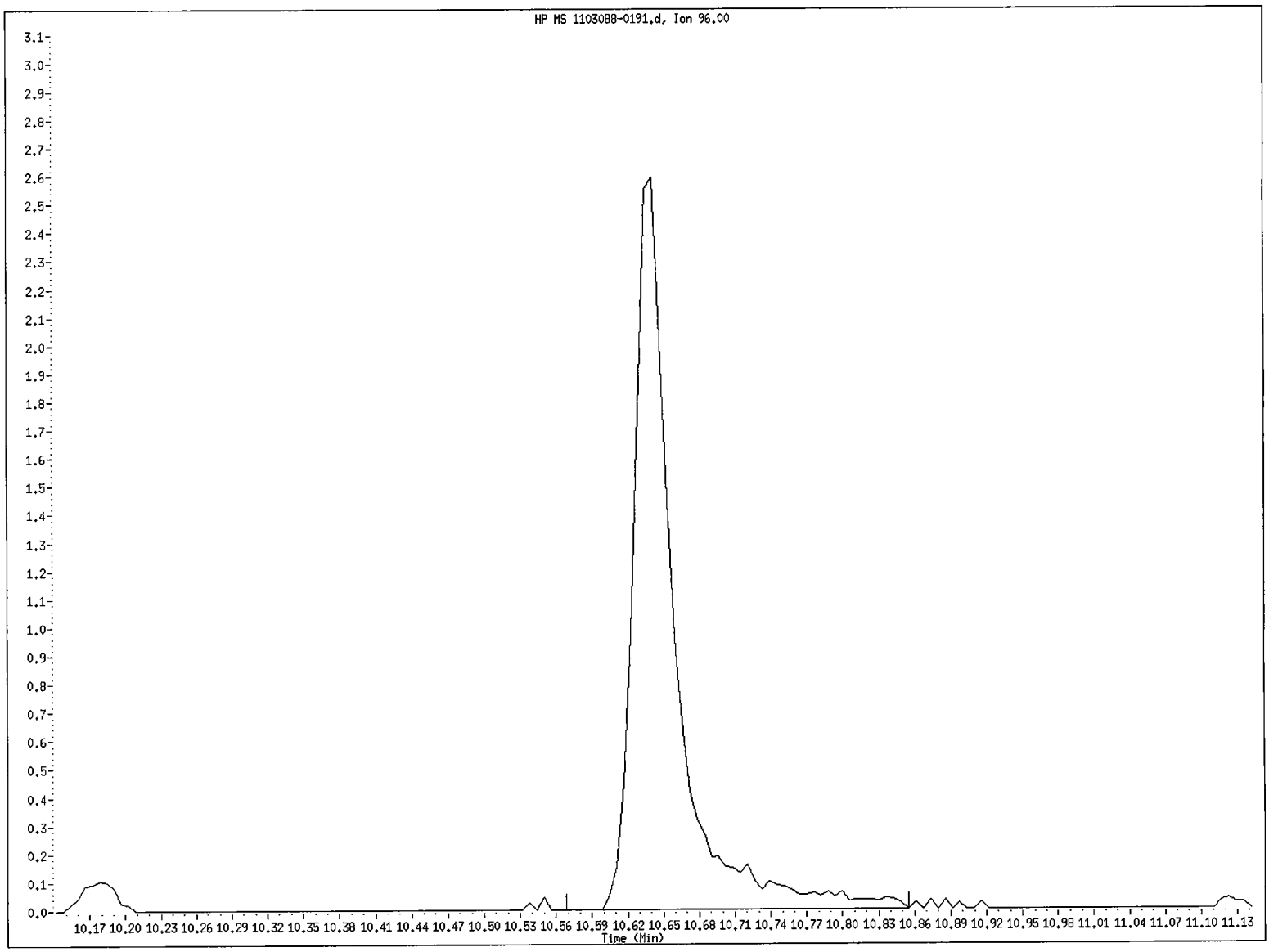
Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 61135 Manually integrated



File name: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Client ID: S-1
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 09:26
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0191.d
Lab Smp Id: 1103088-01 Client Smp ID: S-1
Inj Date : 19-MAR-2011 09:26
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-01:TD
Misc Info : S-1
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0291.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	27	
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.5	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	1.5	J
156-59-2	cis-1,2-Dichloroethene	0.65	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-2

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-02

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0291.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

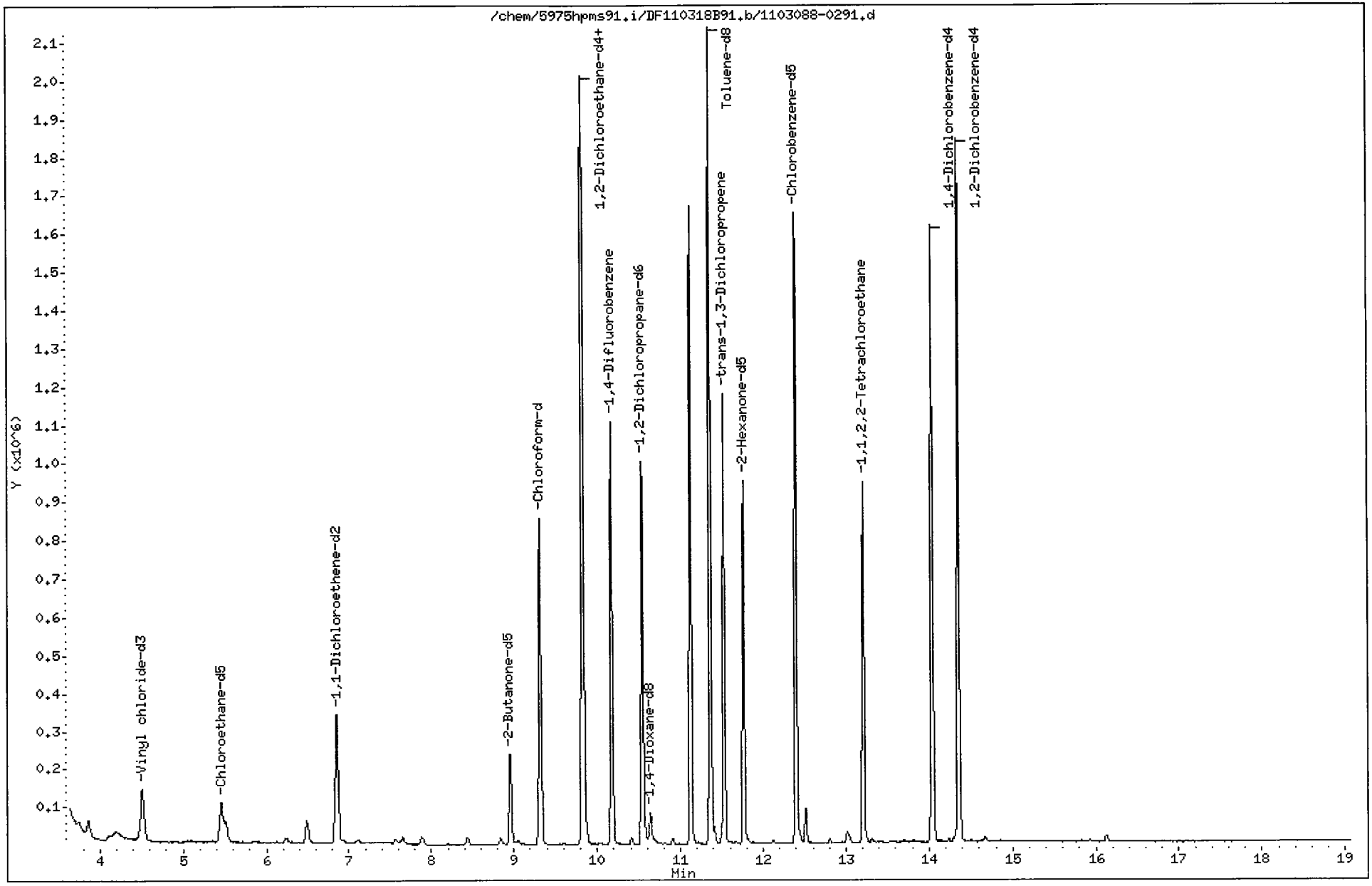
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Date : 19-MAR-2011 09:55
Client ID: S-2
Sample Info: 1103088-02:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Lab Smp Id: 1103088-02 Client Smp ID: S-2
Inj Date : 19-MAR-2011 09:55
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-02:TD
Misc Info : S-2
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	773877	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	786034	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	404125	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	215383	253.329	50.6659
$ 5 Chloroethane-d5	69	5.460	5.453	(0.537)	159000	265.236	53.0472
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	310405	205.370	41.0739
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	293171	313.023	62.6047
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	676084	250.695	50.1390
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	467473	265.527	53.1055
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1344486	258.427	51.6854
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	403690	249.519	49.9037
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1276457	259.934	51.9867
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	543789	248.855	49.7711
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	274873	386.017	77.2035
$ 15 1,4-Dioxane-d8	96	10.642	10.642	(1.046)	60454	4670.20	934.041
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	461528	249.415	49.8830

3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	CONCENTRATIONS FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	489729	264.856	52.9711
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	5.508	5.514	(0.542)	62452	135.367	27.0735
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.563	7.563	(0.743)	4992	7.32852	1.46570(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	7.880	7.880	(0.775)	18427	5.40003	1.08001(a)
32 1,1-Dichloroethane	63	8.429	8.435	(0.829)	17664	7.54878	1.50976(a)
33 cis-1,2-Dichloroethene	96	9.063	9.056	(0.891)	4276	3.23287	0.646574(a)
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	10.684	10.684	(1.050)	4329	305.383	61.0767(a)
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	12.519	12.513	(1.010)	23150	9.92984	1.98597(a)
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

Client ID: S-2

Instrument: 5975hpms91.i

Sample Info: 1103088-02:TD

Purge Volume: 5.0

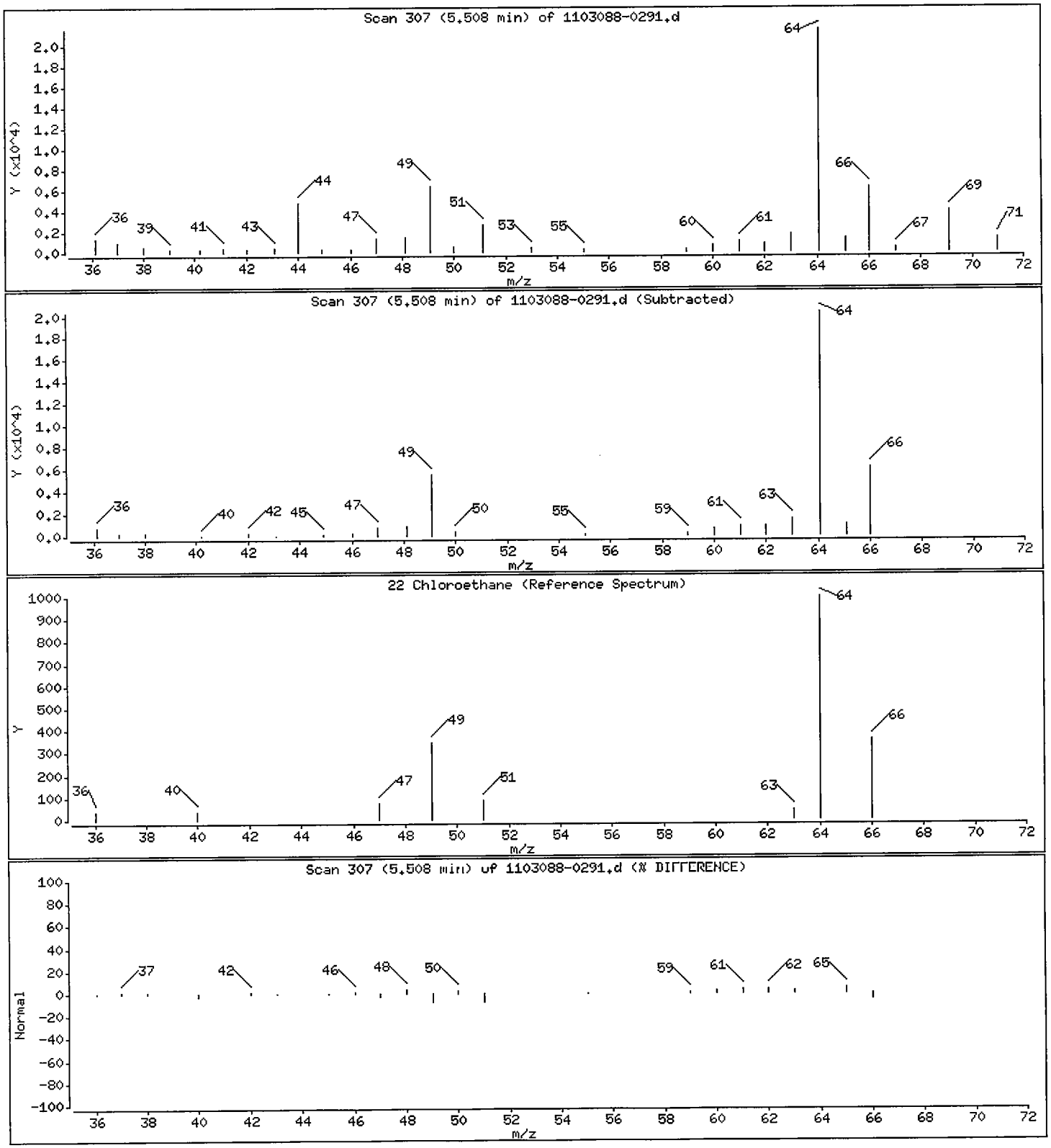
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

22 Chloroethane

Concentration: 27.0735 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

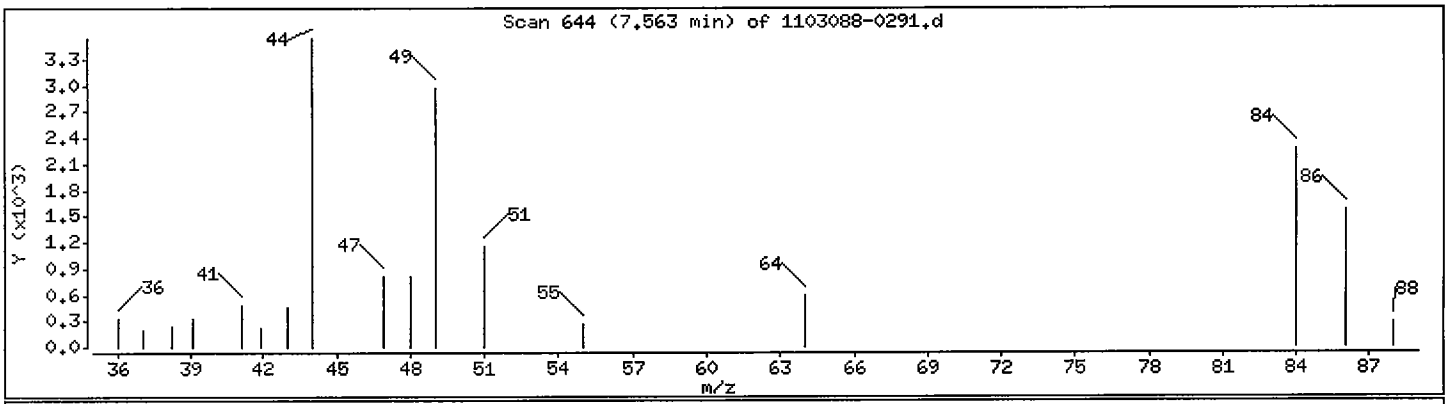
Client ID: S-2 | Instrument: 5975hpms91.i

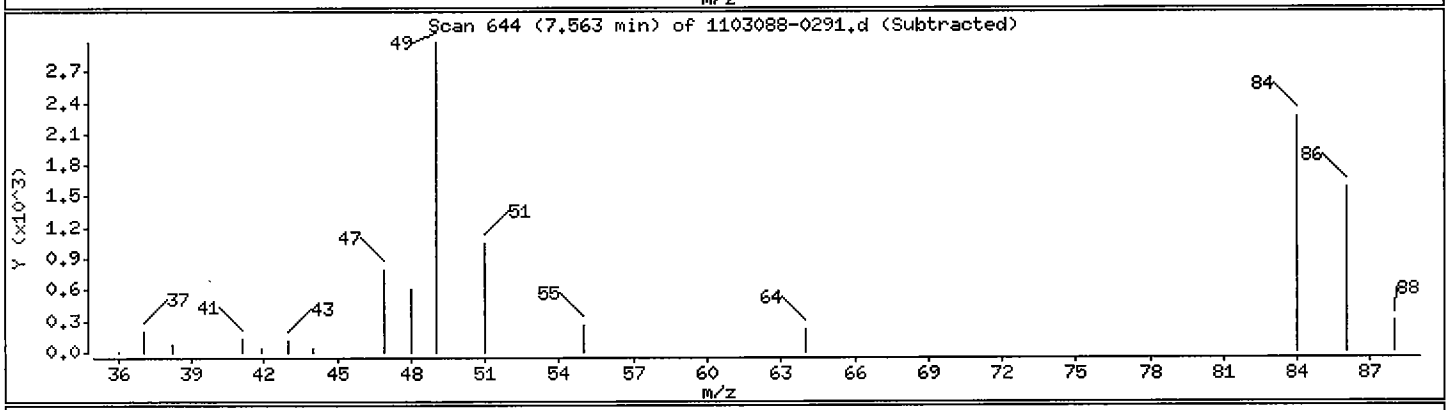
Sample Info: 1103088-02:TD

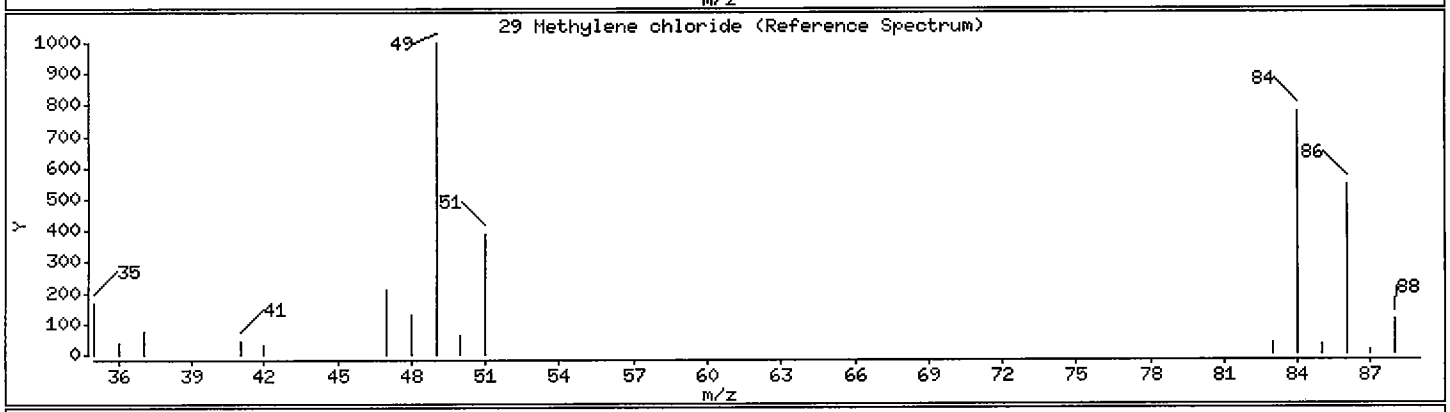
Purge Volume: 5.0 | Operator: TD

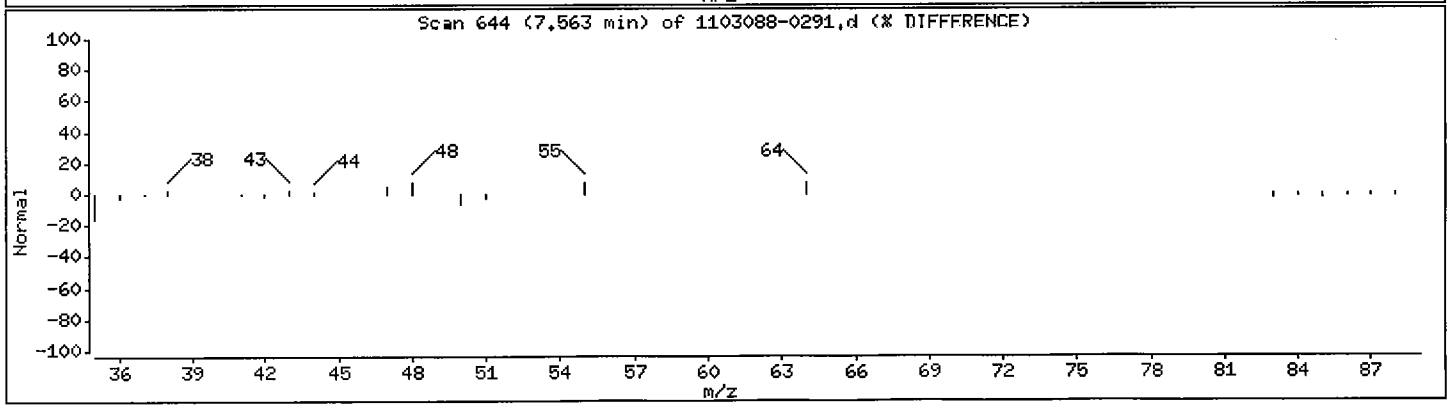
Column phase: SPB-624 | Column diameter: 0.32

29 Methylene chloride | Concentration: 1.46570 ug/L









Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

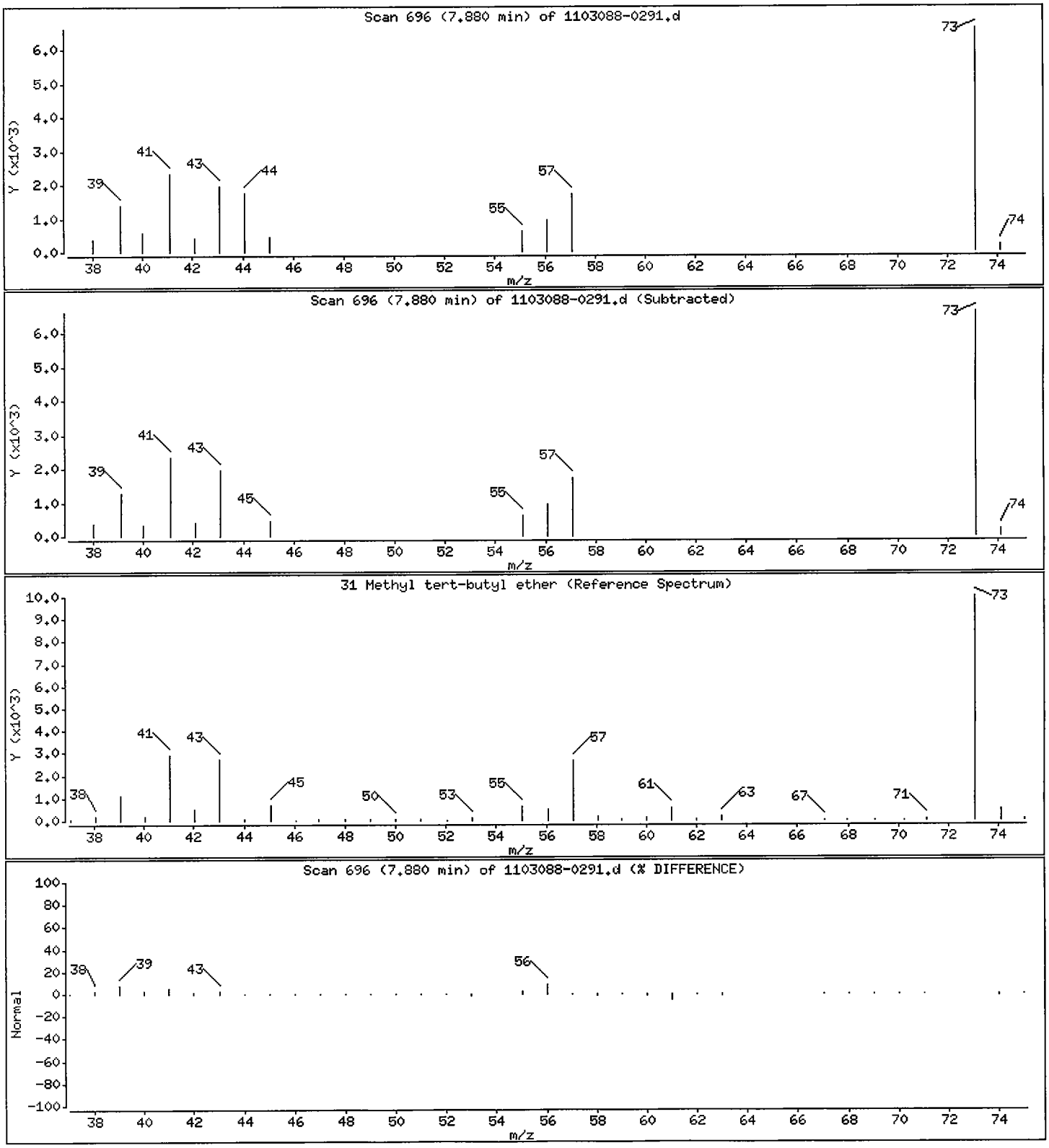
Client ID: S-2 | Instrument: 5975hpms91.i

Sample Info: 1103088-02:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

31 Methyl tert-butyl ether | Concentration: 1.08001 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

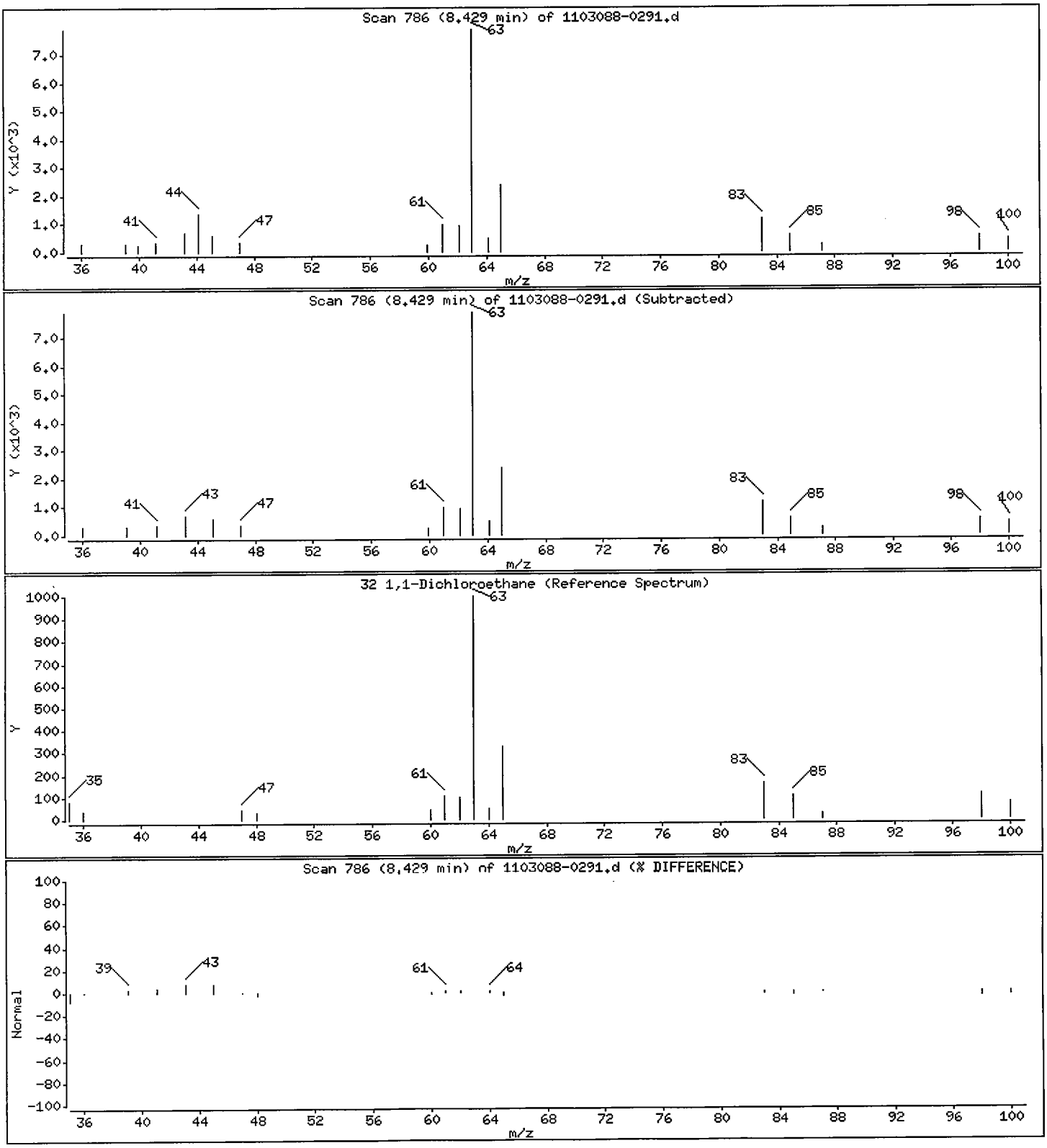
Client ID: S-2 | Instrument: 5975hpms91.i

Sample Info: 1103088-02:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

32 1,1-Dichloroethane | Concentration: 1.50976 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

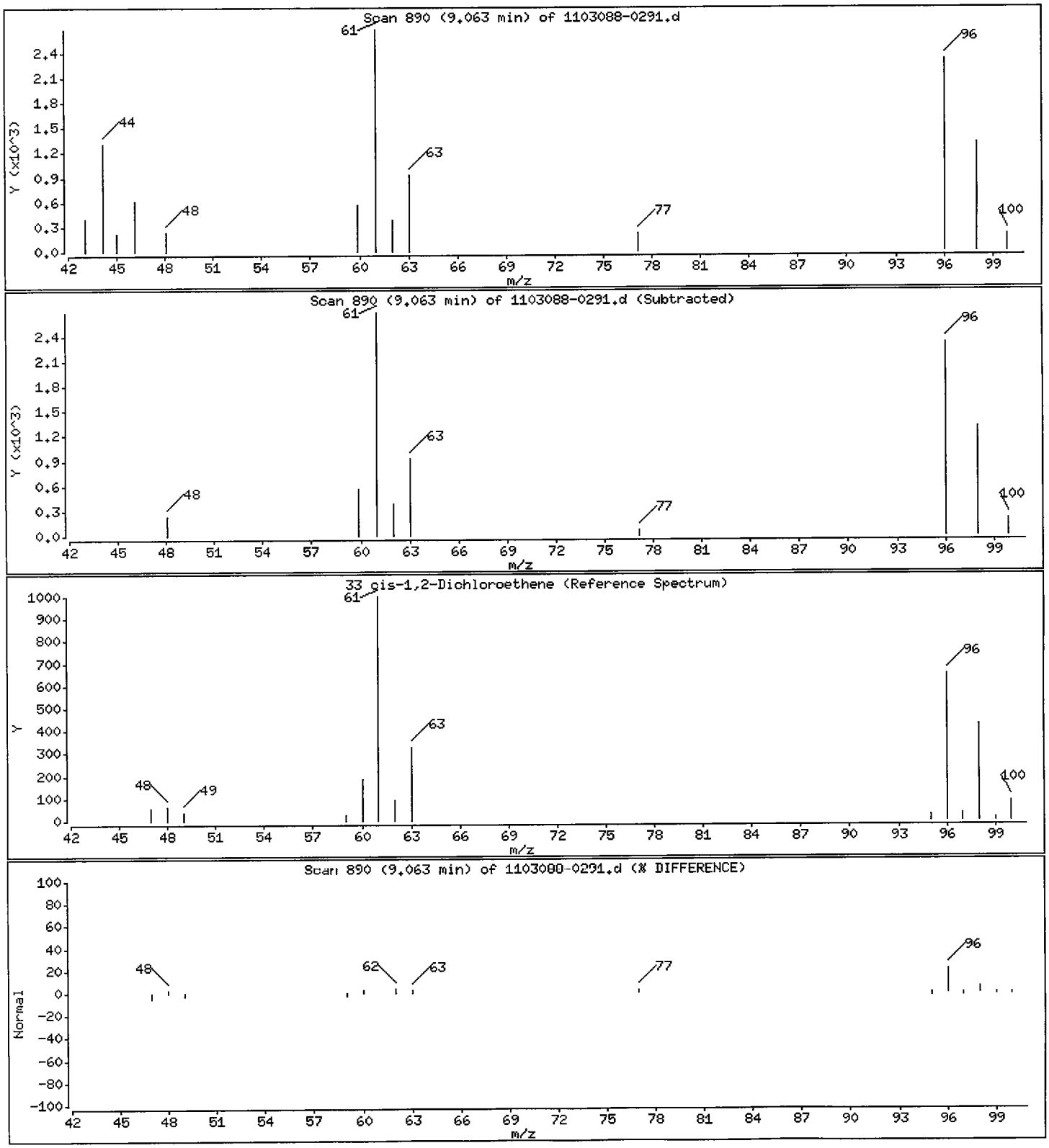
Client ID: S-2 Instrument: 5975hpms91.i

Sample Info: 1103088-02:TD

Purge Volume: 5.0 Operator: TD

Column phase: SPB-624 Column diameter: 0.32

33 cis-1,2-Dichloroethene Concentration: 0.646574 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

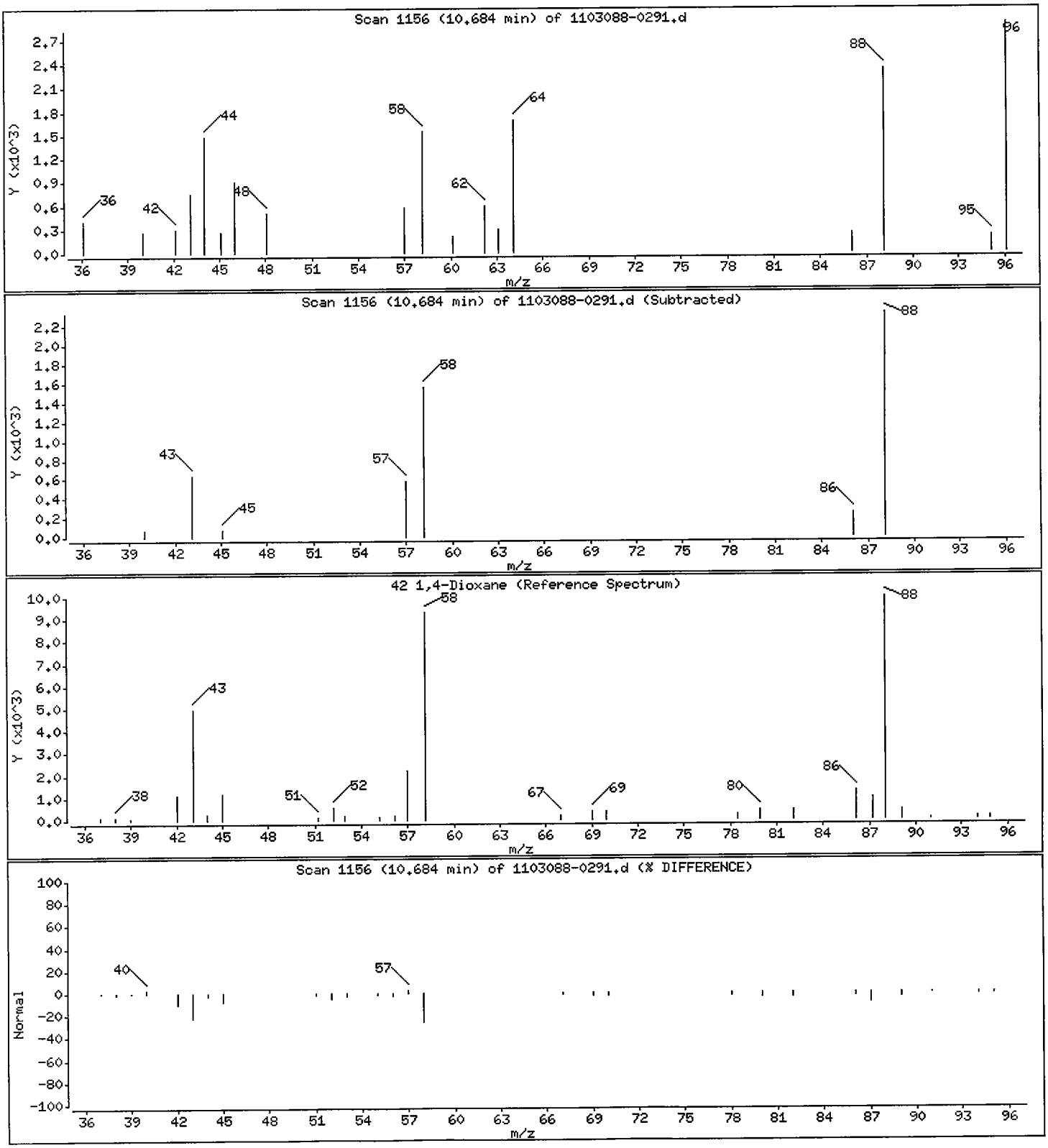
Client ID: S-2 | Instrument: 5975hpms91.i

Sample Info: 1103088-02:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

42 1,4-Dioxane | Concentration: 61.0767 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d

Date : 19-MAR-2011 09:55

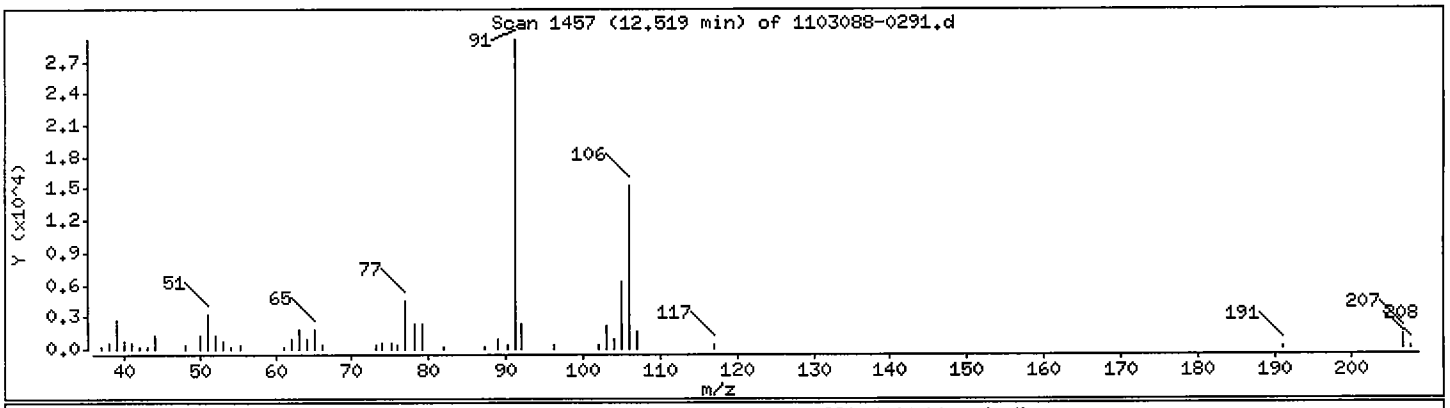
Client ID: S-2 | Instrument: 5975hpms91.i

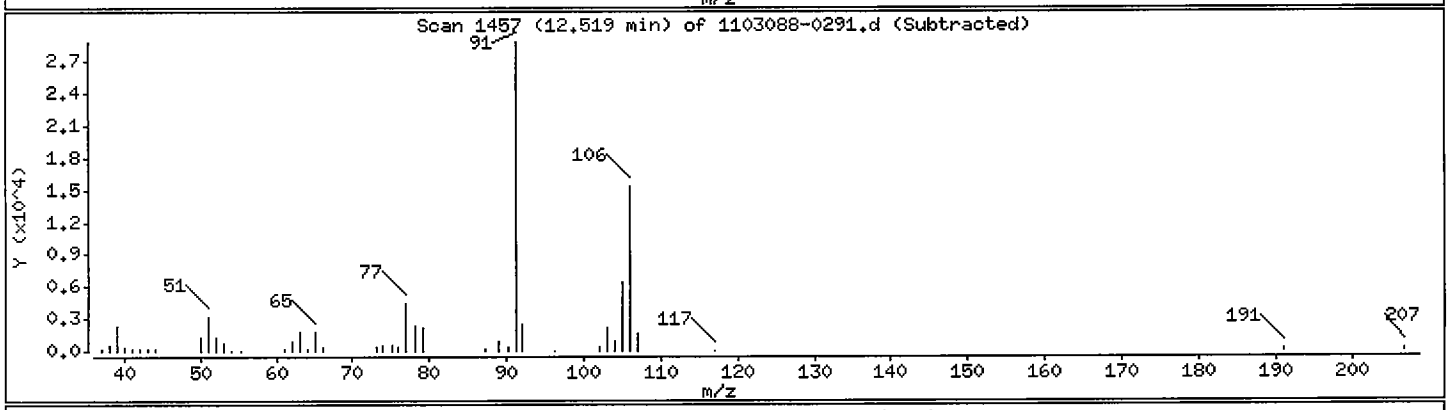
Sample Info: 1103088-02:TD

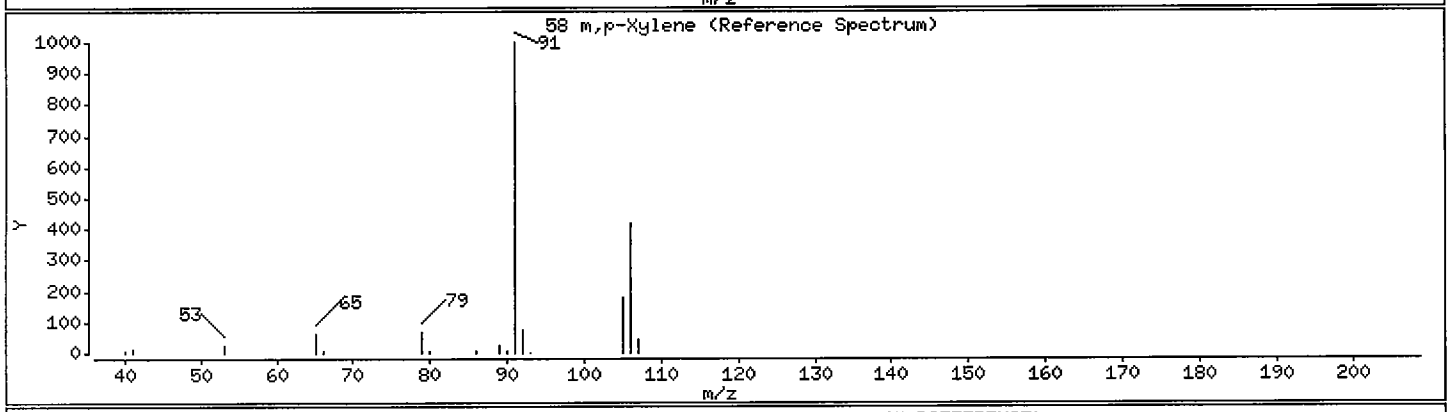
Purge Volume: 5.0 | Operator: TD

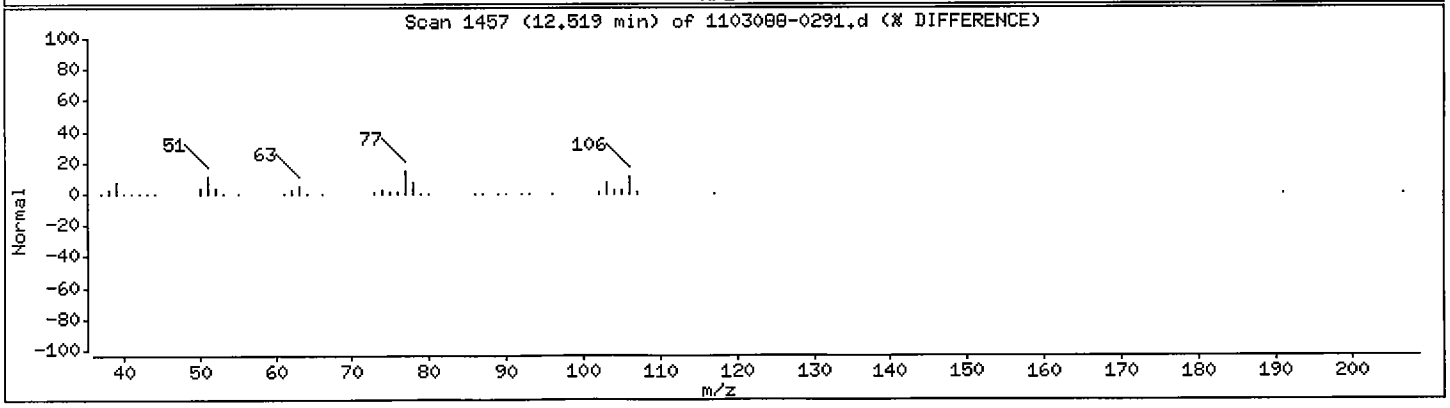
Column phase: SPB-624 | Column diameter: 0.32

58 m,p-Xylene | Concentration: 1.98597 ug/L









Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0291.d
Lab Smp Id: 1103088-02 Client Smp ID: S-2
Inj Date : 19-MAR-2011 09:55
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-02:TD
Misc Info : S-2
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0391.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-3

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-03

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0391.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
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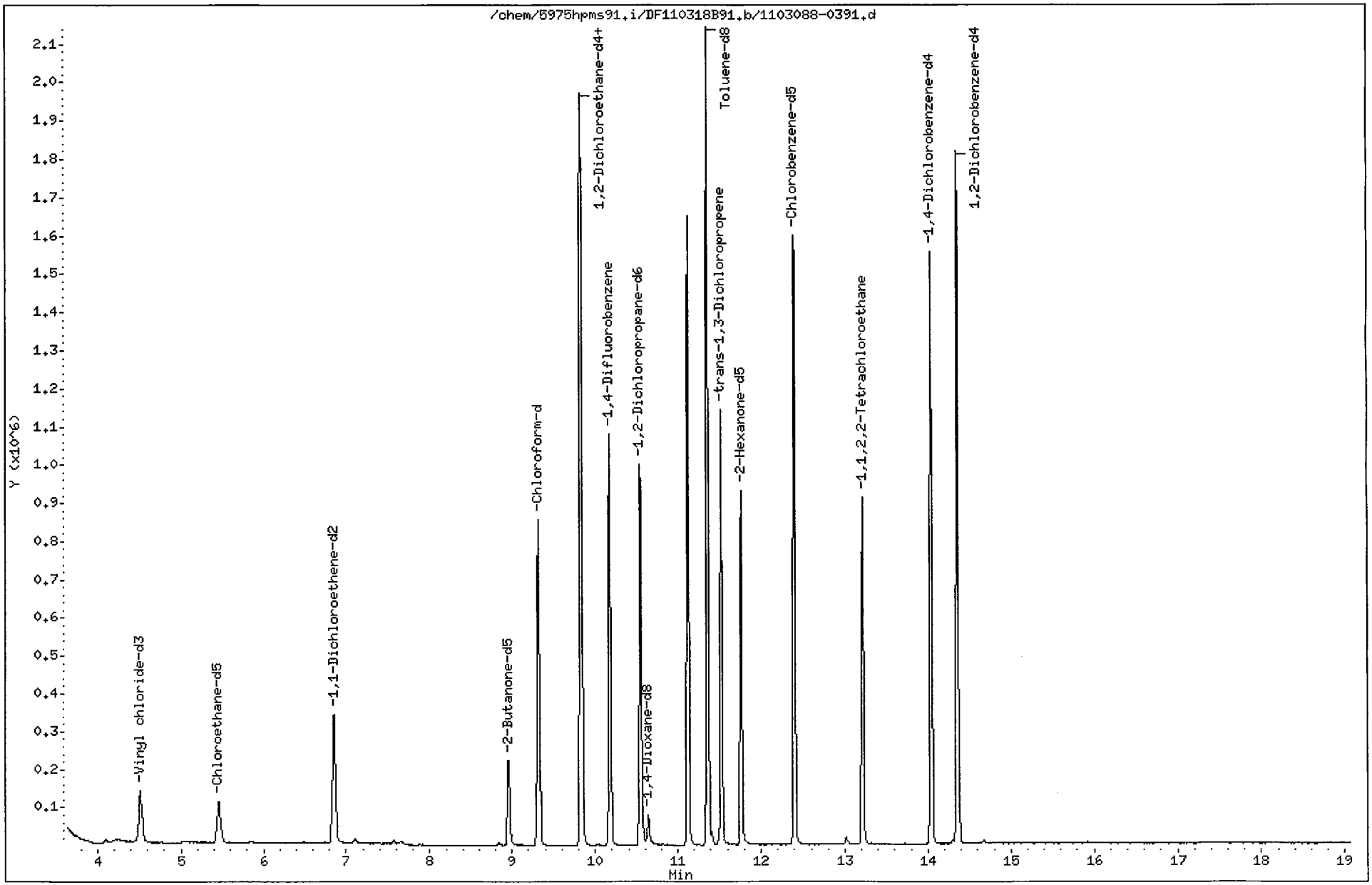
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Date : 19-MAR-2011 10:24
Client ID: S-3
Sample Info: 1103088-03:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Lab Smp Id: 1103088-03 Client Smp ID: S-3
Inj Date : 19-MAR-2011 10:24
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-03:TD
Misc Info : S-3
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	766883	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	764947	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	396197	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	215822	256.161	51.2321
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	160810	270.702	54.1404
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	313674	209.425	41.8850
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	279828	301.502	60.3003
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	671442	251.244	50.2489
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	464316	266.140	53.2279
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1339081	264.483	52.8966
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	398795	253.288	50.6576
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1258060	263.250	52.6499
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	531221	249.805	49.9611
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	265315	382.866	76.5732
$ 15 1,4-Dioxane-d8	96	10.642	10.642	(1.046)	61769	4815.31	963.062(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	447724	248.625	49.7250

MHB 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	483752	266.858	53.3717
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.563	7.563	(0.743)	4088	6.05614	1.21123(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

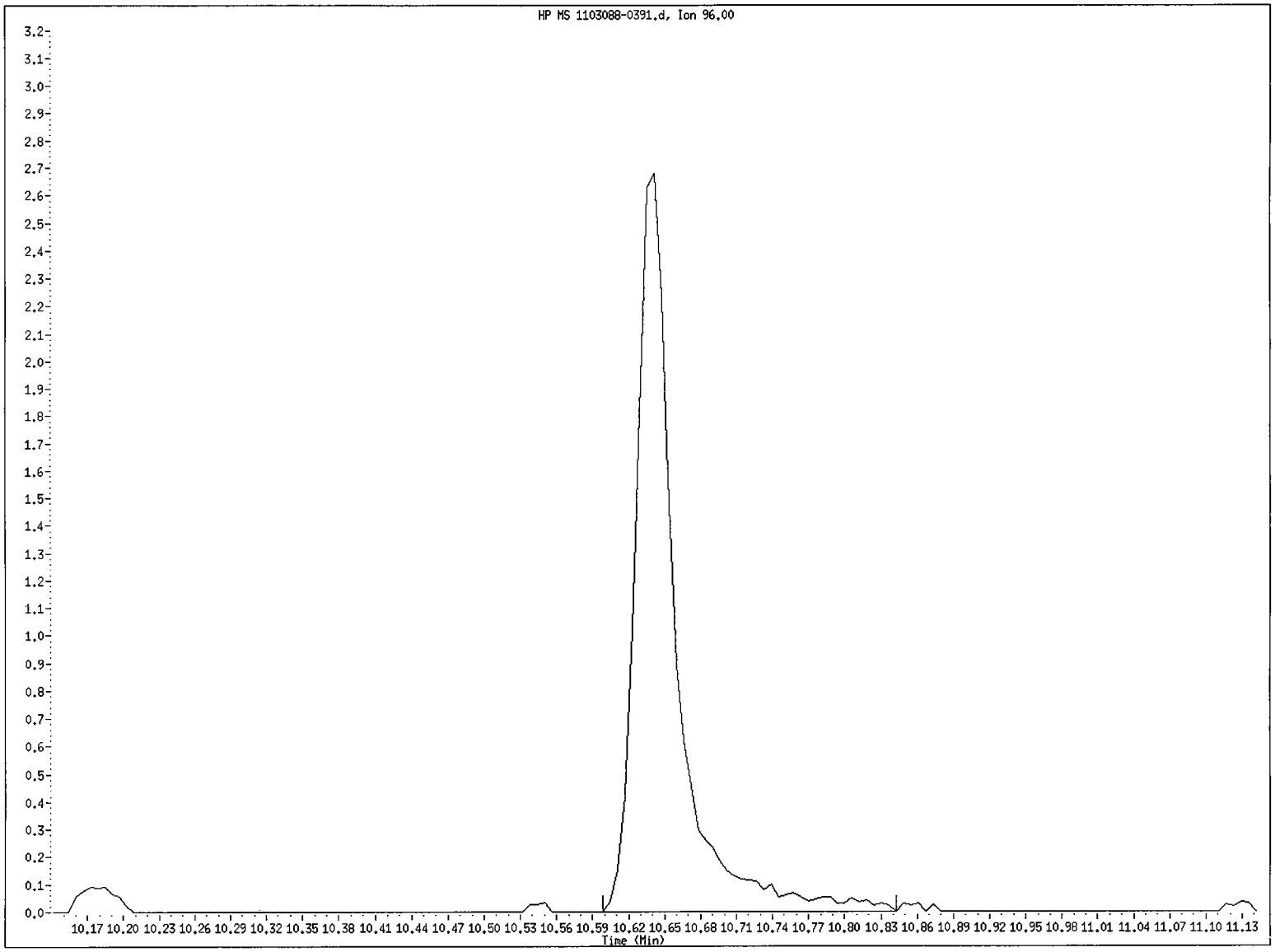
Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 61769 Manually integrated



File name: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Client ID: S-3
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 10:24
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d

Date : 19-MAR-2011 10:24

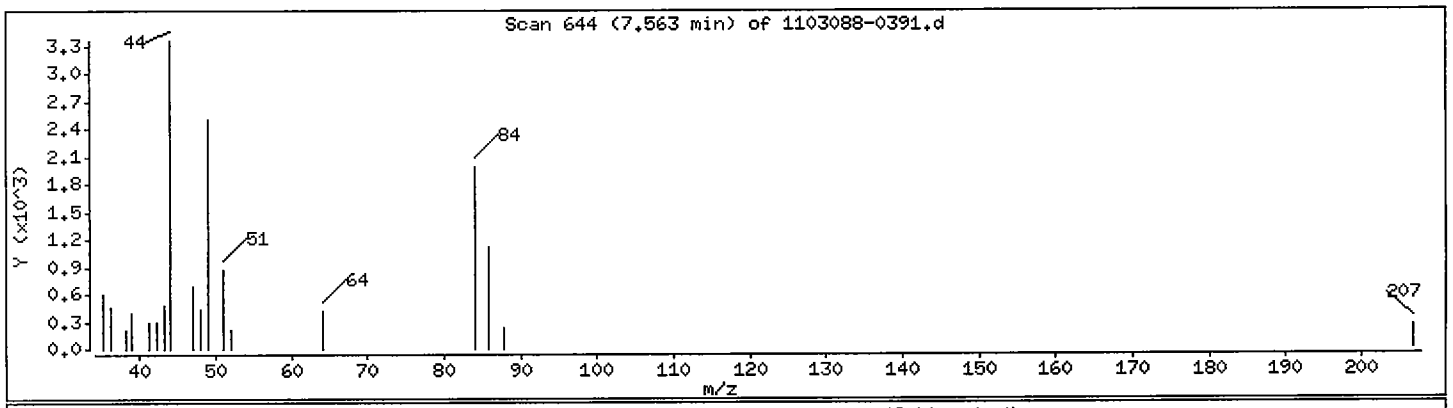
Client ID: S-3 | Instrument: 5975hpms91.i

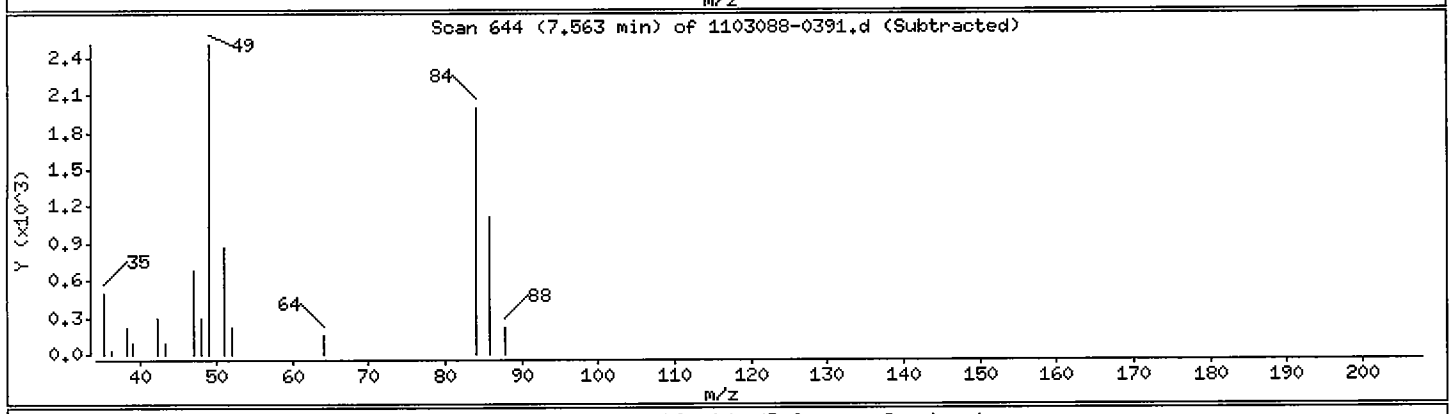
Sample Info: 1103088-03:TD

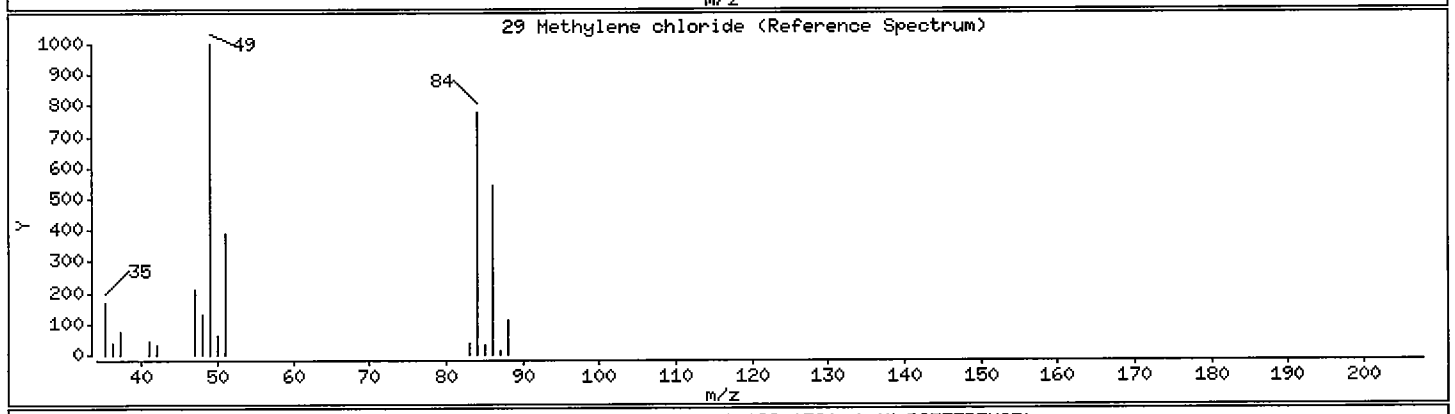
Purge Volume: 5.0 | Operator: TD

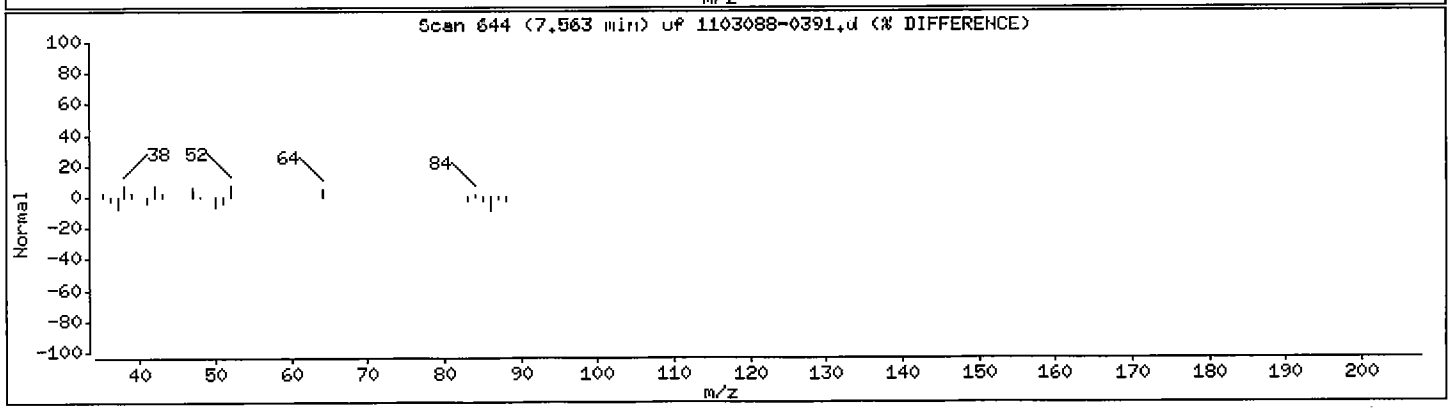
Column phase: SPB-624 | Column diameter: 0.32

29 Methylene chloride | Concentration: 1.21123 ug/L









Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0391.d
Lab Smp Id: 1103088-03 Client Smp ID: S-3
Inj Date : 19-MAR-2011 10:24
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-03:TD
Misc Info : S-3
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0491.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.3	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	1.5	J
156-59-2	cis-1,2-Dichloroethene	2.9	J
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-4

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-04

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0491.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

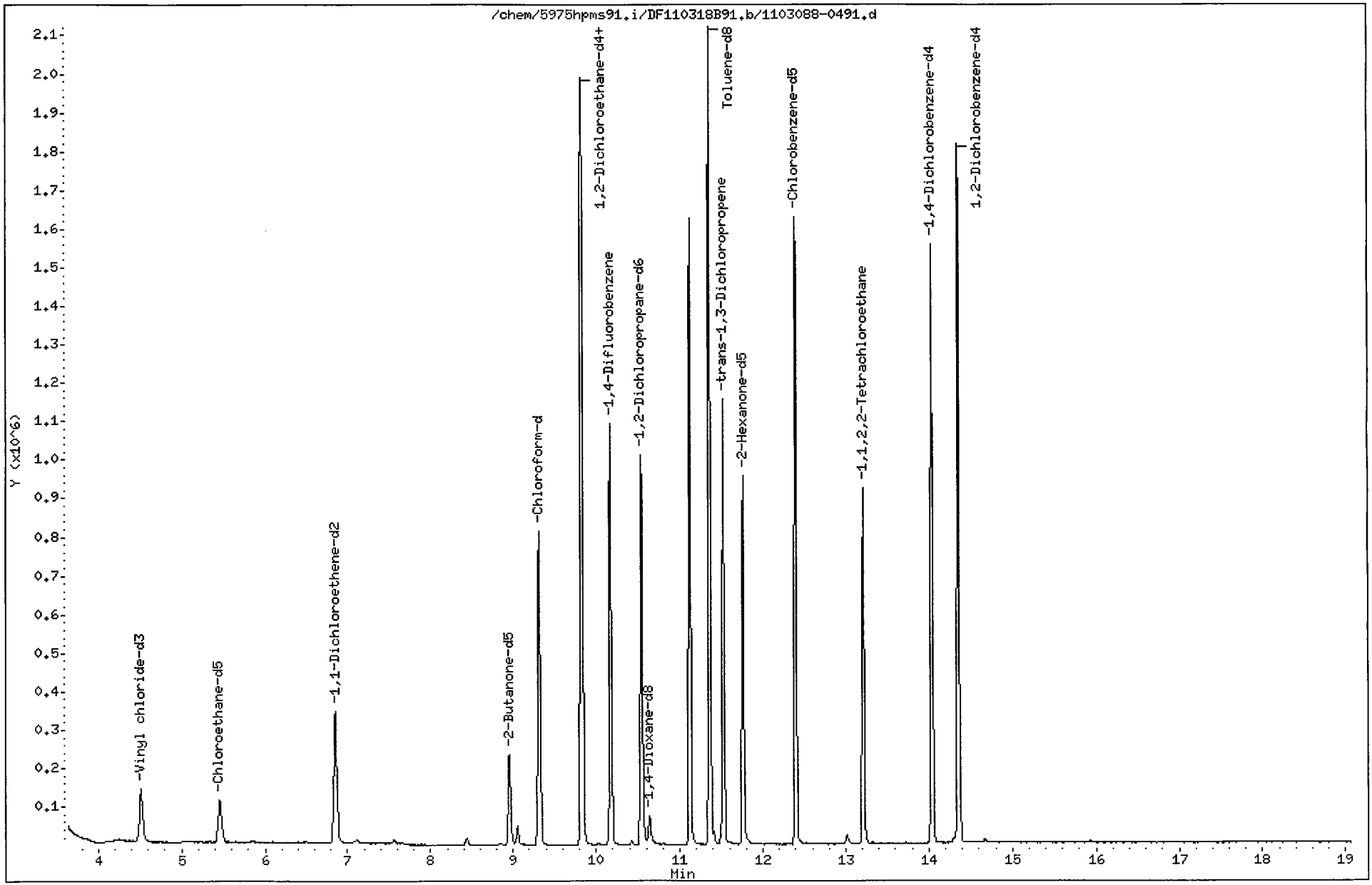
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Date : 19-MAR-2011 10:53
Client ID: S-4
Sample Info: 1103088-04:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Lab Smp Id: 1103088-04 Client Smp ID: S-4
Inj Date : 19-MAR-2011 10:53
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-04:TD
Misc Info : S-4
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	768257	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	763738	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	391816	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	217385	257.554	51.5109
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	159409	267.864	53.5728
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	315221	210.082	42.0163
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	290988	312.965	62.5931
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	675436	252.287	50.4574
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	467277	267.358	53.4715
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1345599	266.191	53.2383
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	400766	254.943	50.9885
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1259661	264.002	52.8004
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	541357	254.975	50.9950
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	277648	401.297	80.2595
$ 15 1,4-Dioxane-d8	96	10.635	10.642	(1.046)	60594	4715.26	943.053(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.066)	458480	255.001	51.0002

3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	485817	270.994	54.1988
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.569	7.563	(0.744)	4264	6.30557	1.26111(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	8.435	8.435	(0.829)	17984	7.74175	1.54835(a)
33 cis-1,2-Dichloroethene	96	9.056	9.056	(0.890)	19156	14.5889	2.91777(a)
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

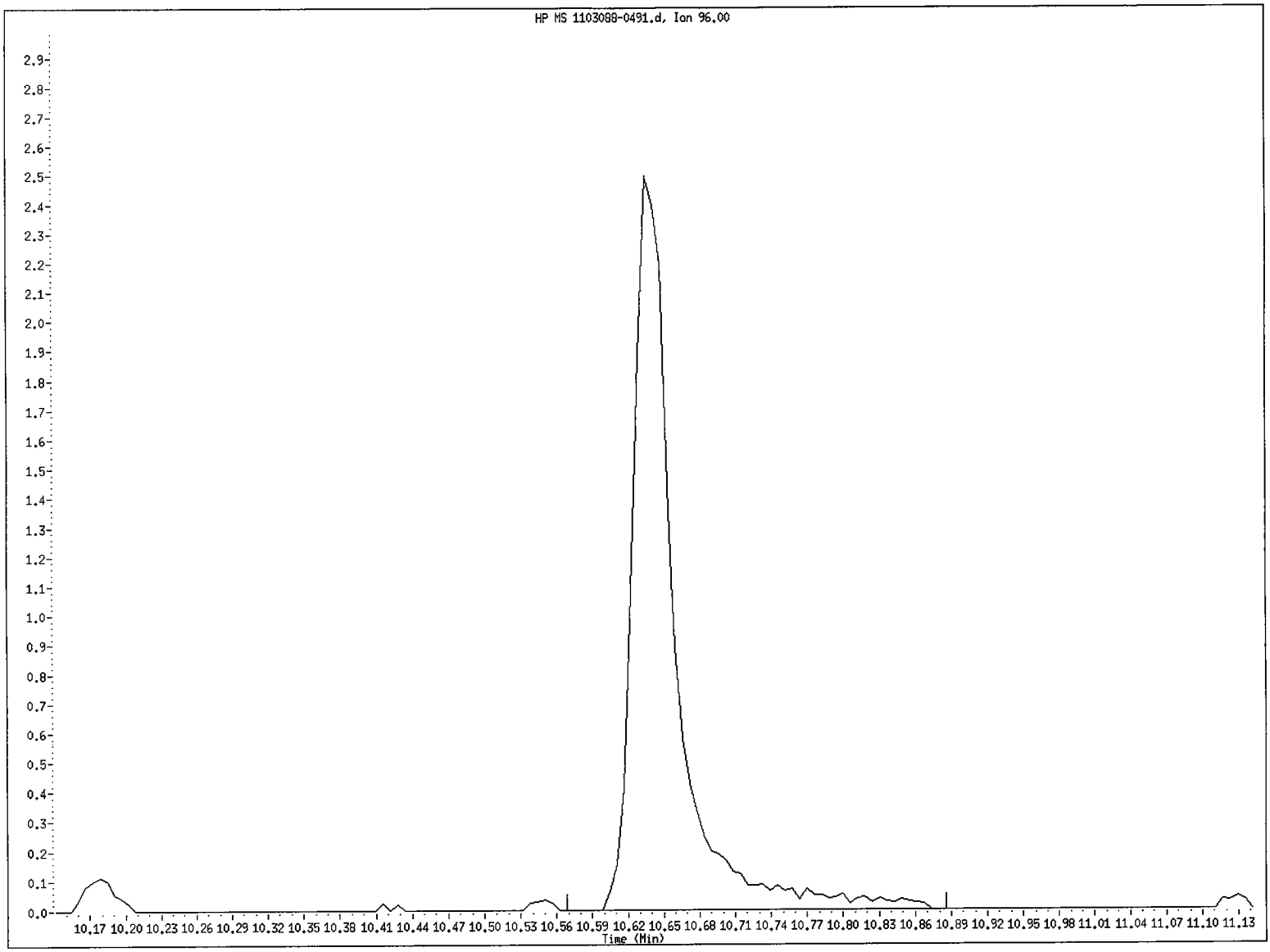
Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 60594 Manually integrated



File name: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Client ID: S-4
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 10:53
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d

Date : 19-MAR-2011 10:53

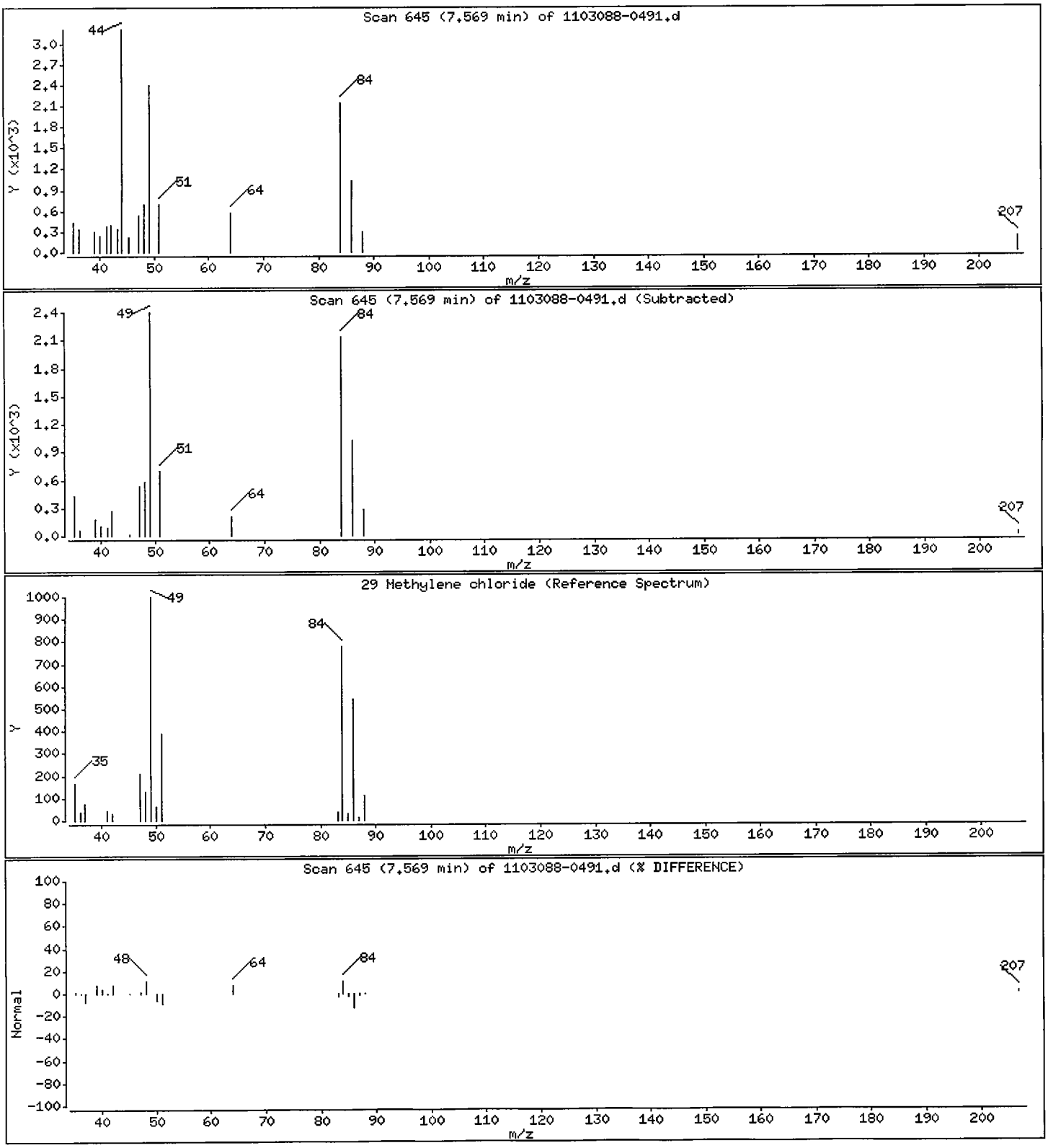
Client ID: S-4 | Instrument: 5975hpms91.i

Sample Info: 1103088-04:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

29 Methylene chloride | Concentration: 1.26111 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d

Date : 19-MAR-2011 10:53

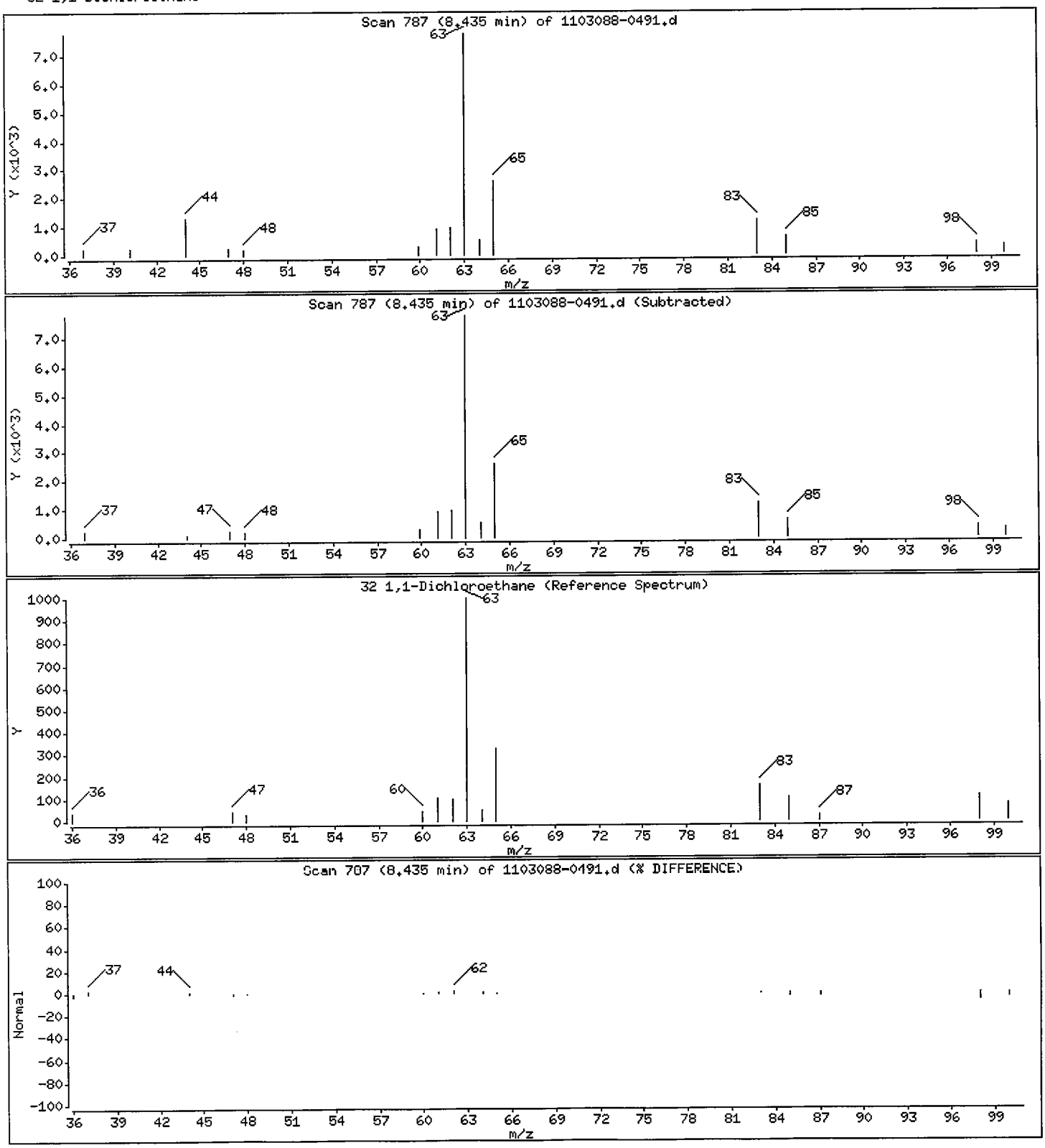
Client ID: S-4 | Instrument: 5975hpms91.i

Sample Info: 1103088-04:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

32 1,1-Dichloroethane | Concentration: 1.54835 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d

Date : 19-MAR-2011 10:53

Client ID: S-4

Instrument: 5975hpms91.i

Sample Info: 1103088-04:TD

Purge Volume: 5.0

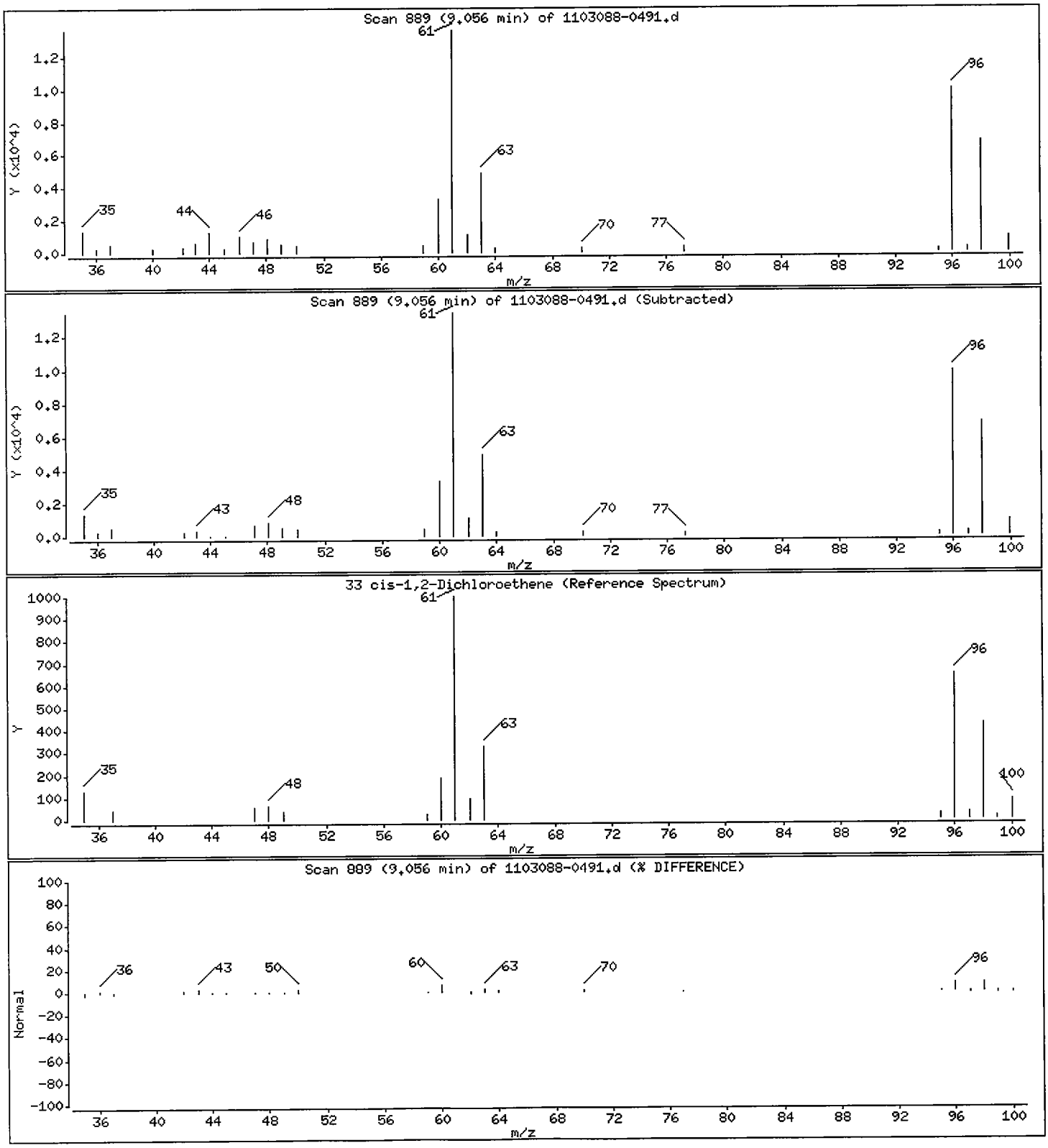
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

33 cis-1,2-Dichloroethene

Concentration: 2.91777 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0491.d
Lab Smp Id: 1103088-04 Client Smp ID: S-4
Inj Date : 19-MAR-2011 10:53
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-04:TD
Misc Info : S-4
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0591.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	1.6	J
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-5

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-05

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0591.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

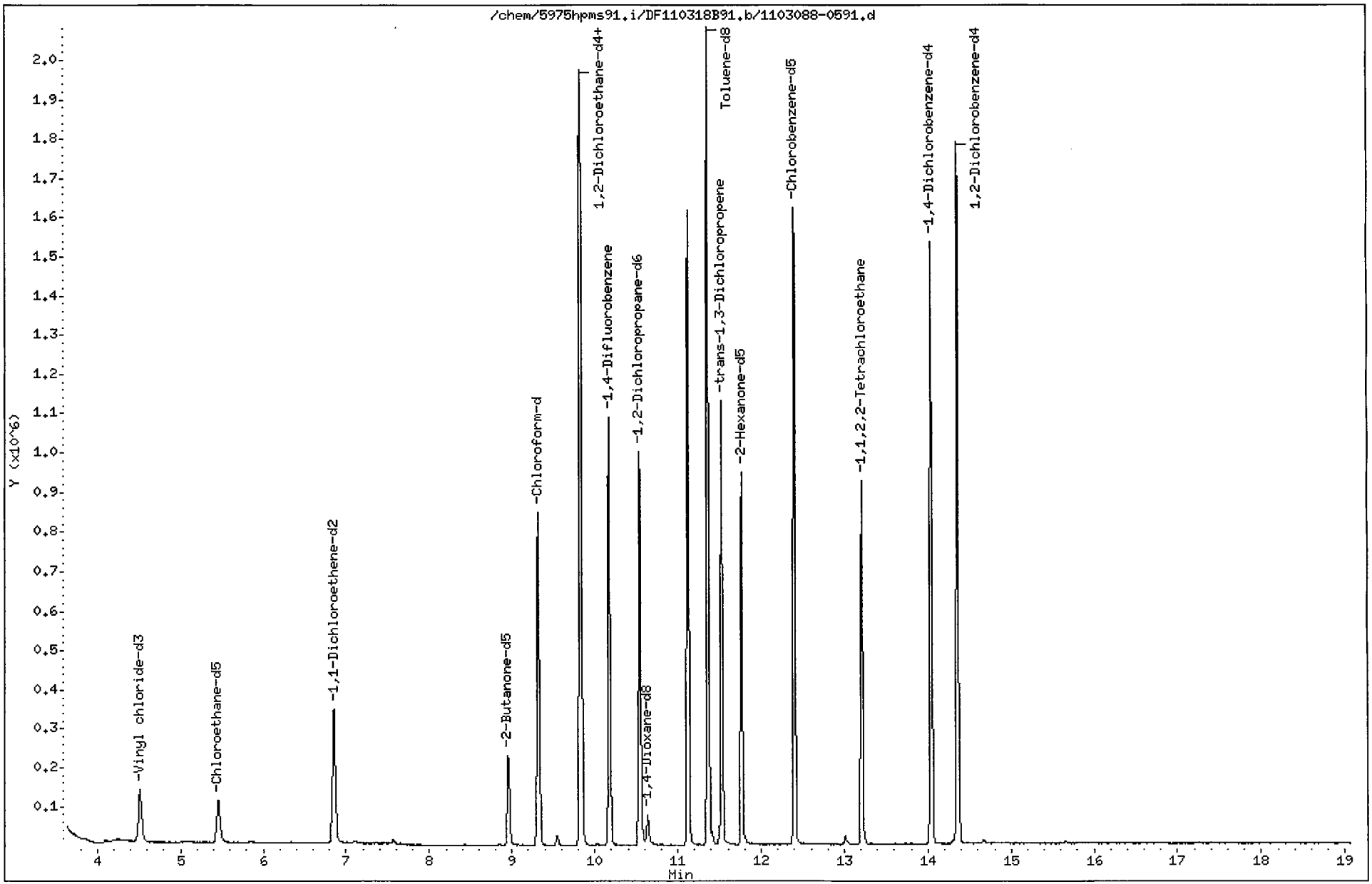
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Date : 19-MAR-2011 11:22
Client ID: S-5
Sample Info: 1103088-05:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Lab Smp Id: 1103088-05 Client Smp ID: S-5
Inj Date : 19-MAR-2011 11:22
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-05:TD
Misc Info : S-5
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	763781	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	763048	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	390717	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	218214	260.052	52.0103
$ 5 Chloroethane-d5	69	5.454	5.453	(0.536)	160945	272.030	54.4059
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	314889	211.090	42.2181
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	282984	306.141	61.2281
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	669029	251.358	50.2716
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	462039	265.910	53.1820
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1328532	263.053	52.6105
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	395864	252.052	50.4104
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1249604	262.131	52.4262
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	530499	250.087	50.0174
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	269461	389.816	77.9633
$ 15 1,4-Dioxane-d8	96	10.635	10.642	(1.046)	57179	4475.59	895.118
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	452141	251.703	50.3406

MWK 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	476162	266.355	53.2711
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.569	7.563	(0.744)	4091	6.08520	1.21704(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	9.544	9.550	(0.770)	16815	7.92750	1.58550(a)
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d

Date : 19-MAR-2011 11:22

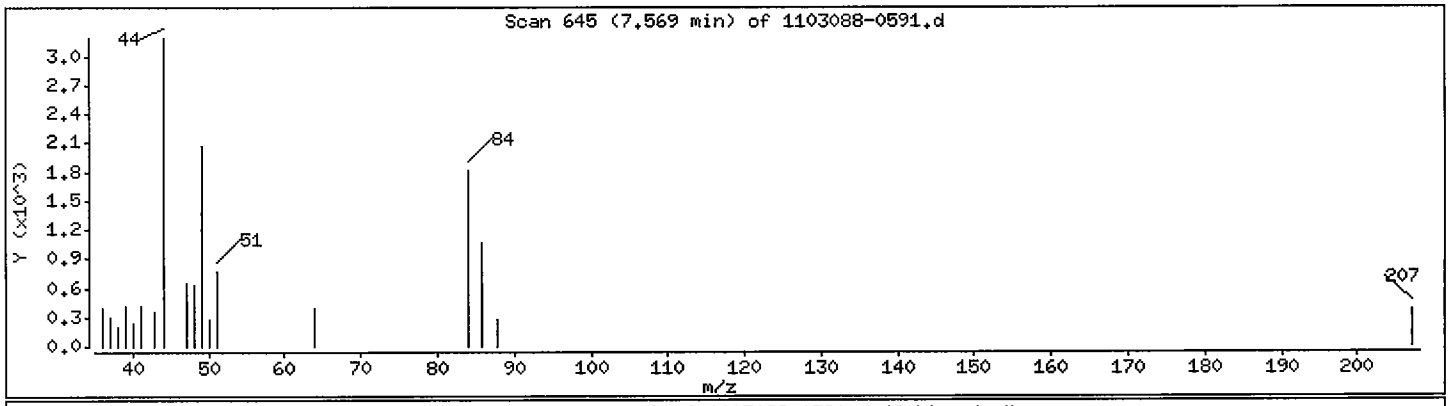
Client ID: S-5 | Instrument: 5975hpms91.i

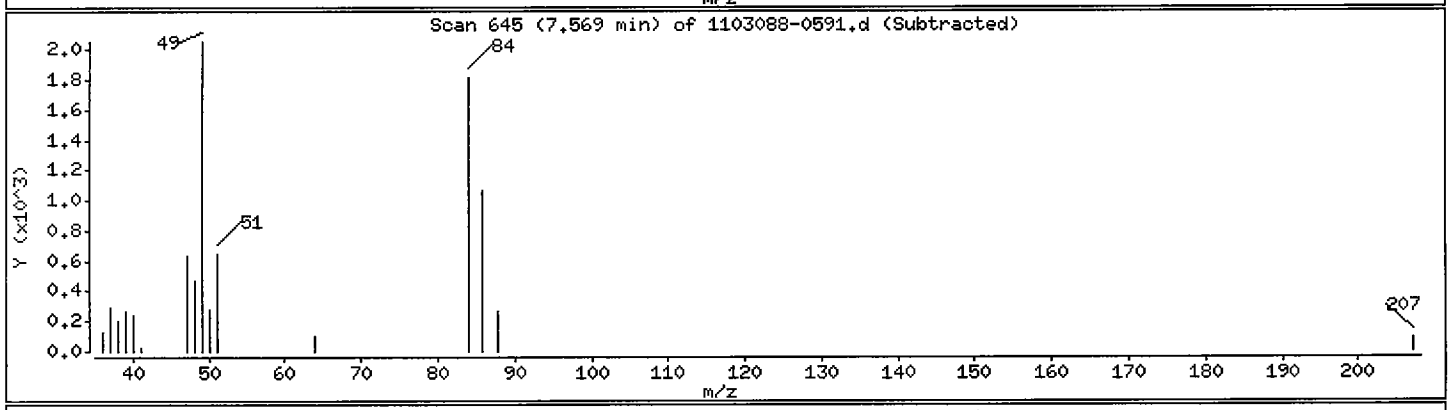
Sample Info: 1103088-05:TD

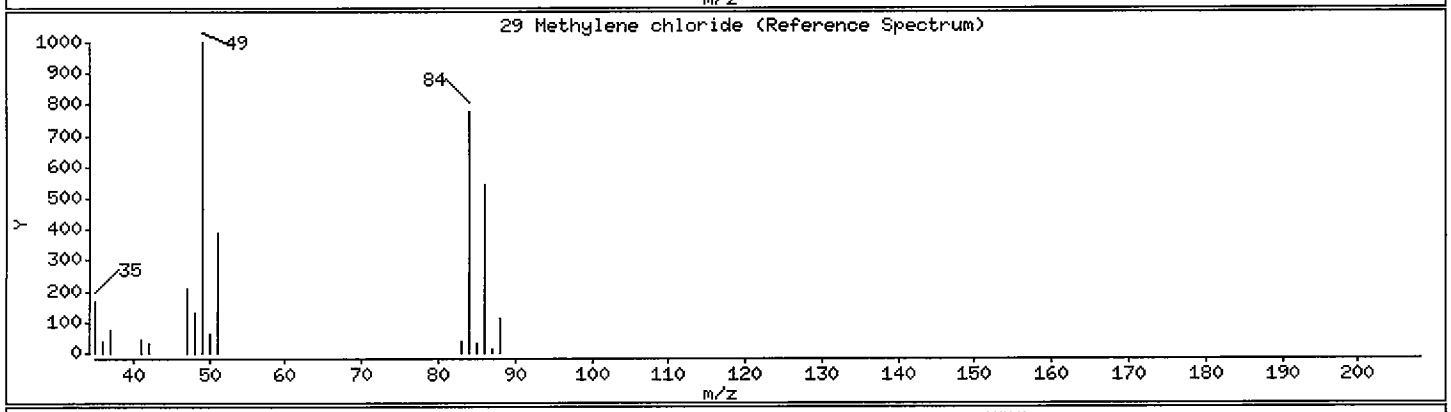
Purge Volume: 5.0 | Operator: TD

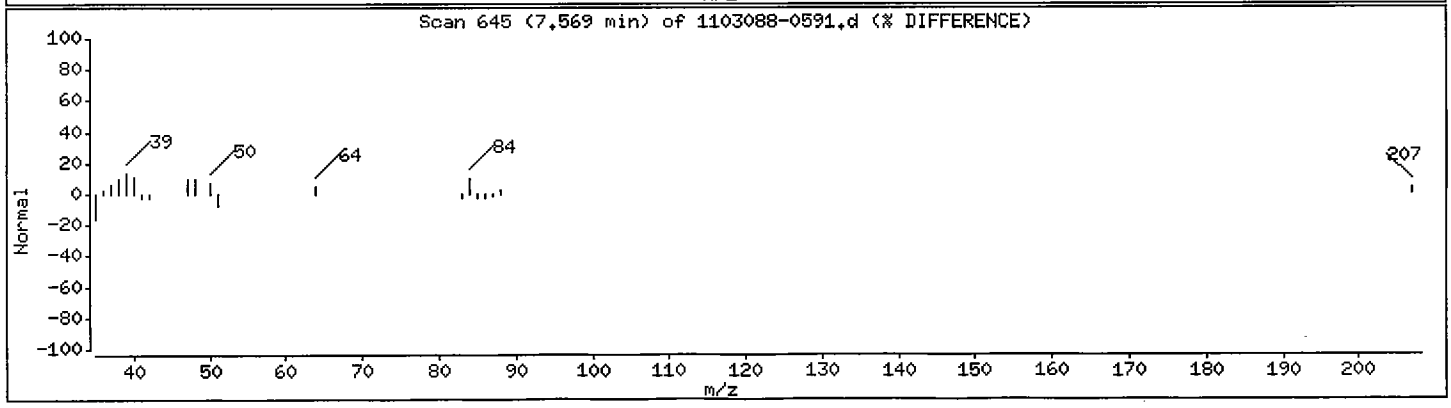
Column phase: SPB-624 | Column diameter: 0.32

29 Methylene chloride | Concentration: 1.21704 ug/L









Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d

Date : 19-MAR-2011 11:22

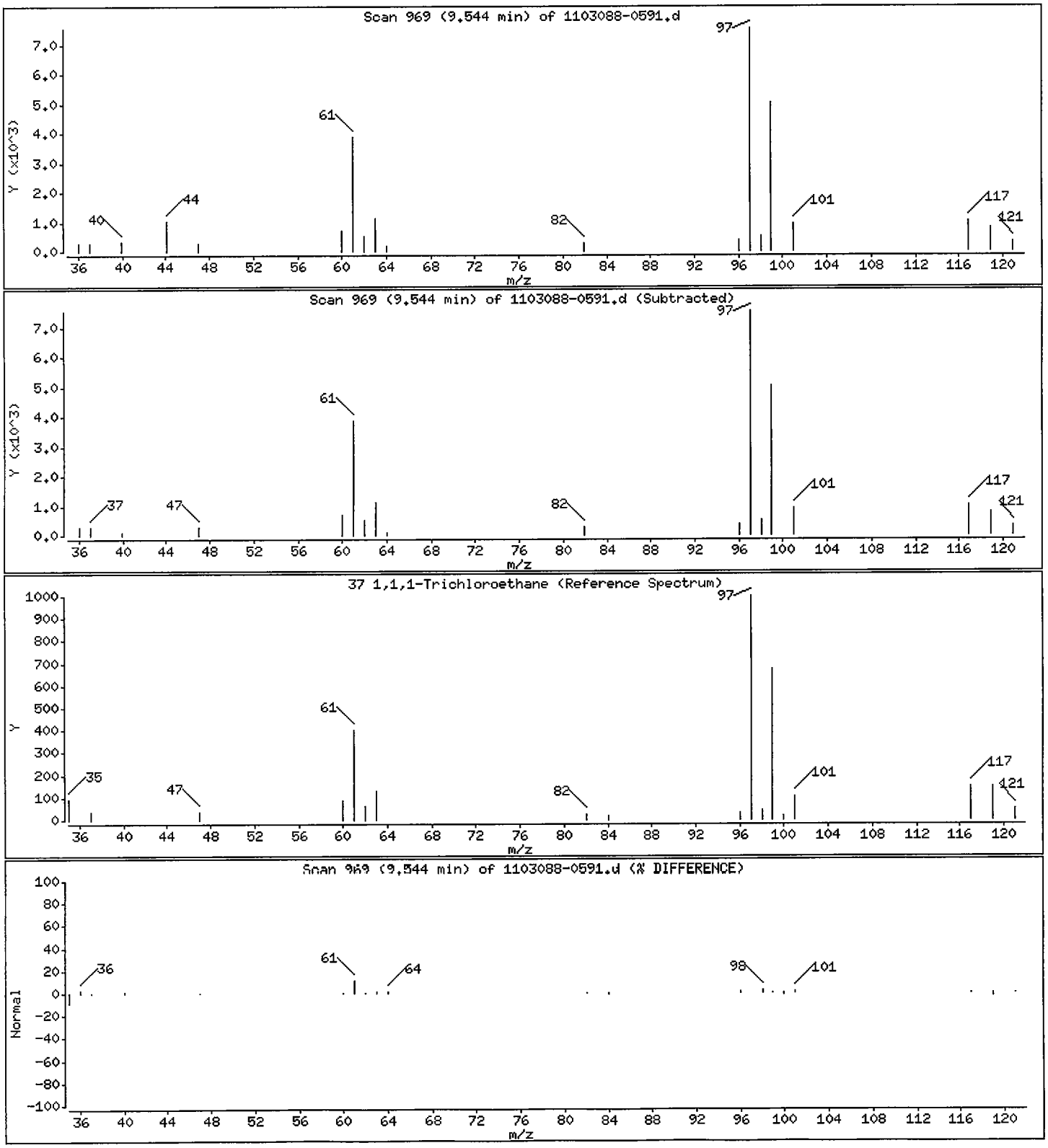
Client ID: S-5 | Instrument: 5975hpms91.i

Sample Info: 1103088-05:TD

Purge Volume: 5.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

37 1,1,1-Trichloroethane | Concentration: 1.58550 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0591.d
Lab Smp Id: 1103088-05 Client Smp ID: S-5
Inj Date : 19-MAR-2011 11:22
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-05:TD
Misc Info : S-5
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0691.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
S-6

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-06

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0691.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

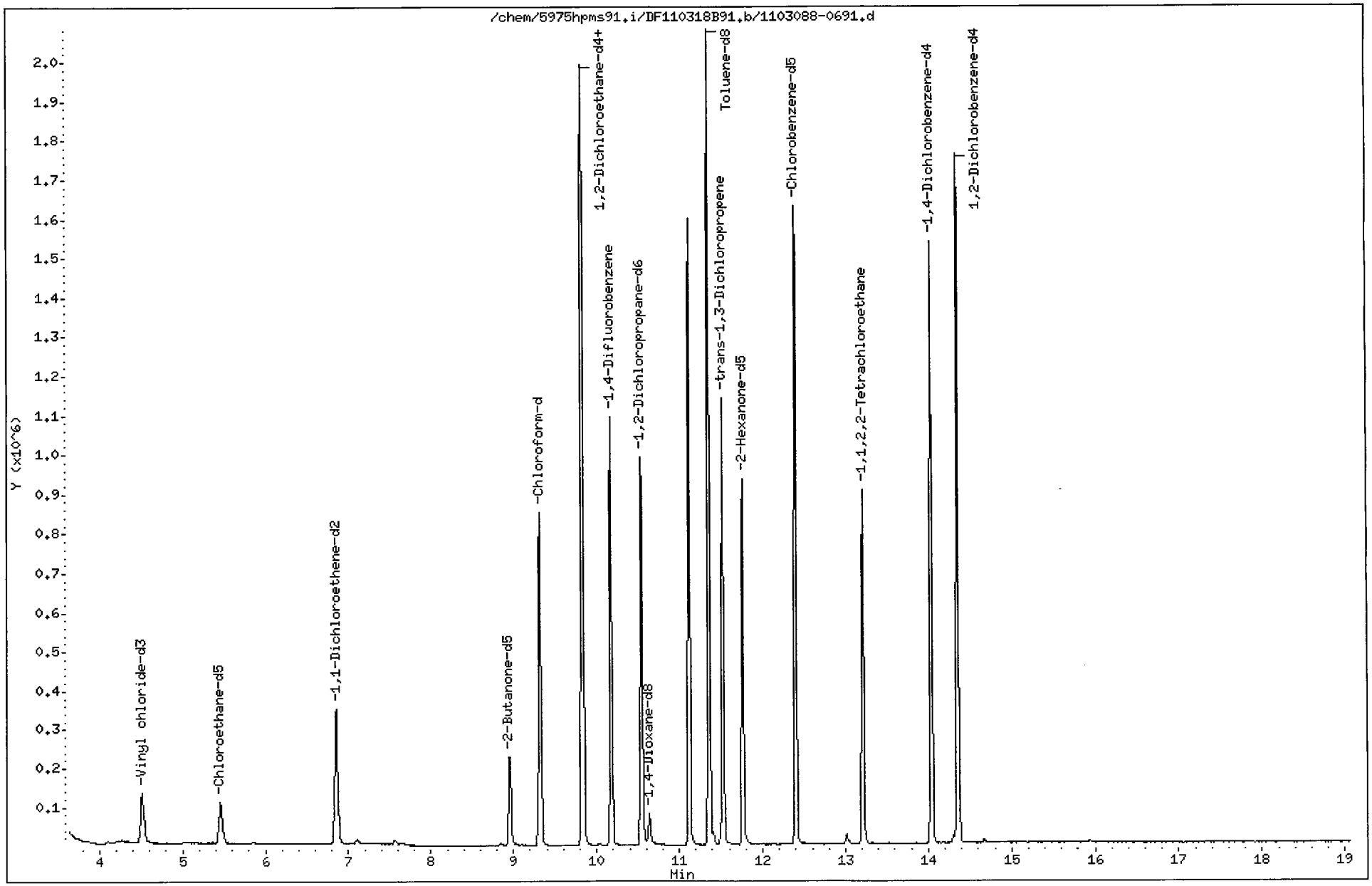
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Date : 19-MAR-2011 11:52
Client ID: S-6
Sample Info: 1103088-06:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Lab Smp Id: 1103088-06 Client Smp ID: S-6
Inj Date : 19-MAR-2011 11:52
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-06:TD
Misc Info : S-6
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	765933	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	770317	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	390559	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	214908	255.392	51.0784
$ 5 Chloroethane-d5	69	5.454	5.453	(0.536)	157684	265.769	53.1538
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	311327	208.116	41.6232
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	283715	306.069	61.2138
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	667374	250.032	50.0064
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	460590	264.331	52.8663
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1326242	260.121	52.0243
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	391421	246.871	49.3743
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1245703	258.847	51.7694
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	531740	248.306	49.6613
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	265289	380.160	76.0319
$ 15 1,4-Dioxane-d8	96	10.642	10.642	(1.046)	58411	4559.18	911.836
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	452477	249.513	49.9026

MWH 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	473090	264.744	52.9488
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0691.d
Lab Smp Id: 1103088-06 Client Smp ID: S-6
Inj Date : 19-MAR-2011 11:52
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-06:TD
Misc Info : S-6
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIPBLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0791.d

Level: (TRACE/LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIPBLANK

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-07

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0791.d

Level: (TRACE or LOW/MED) LOW Date Received: 03/18/2011

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

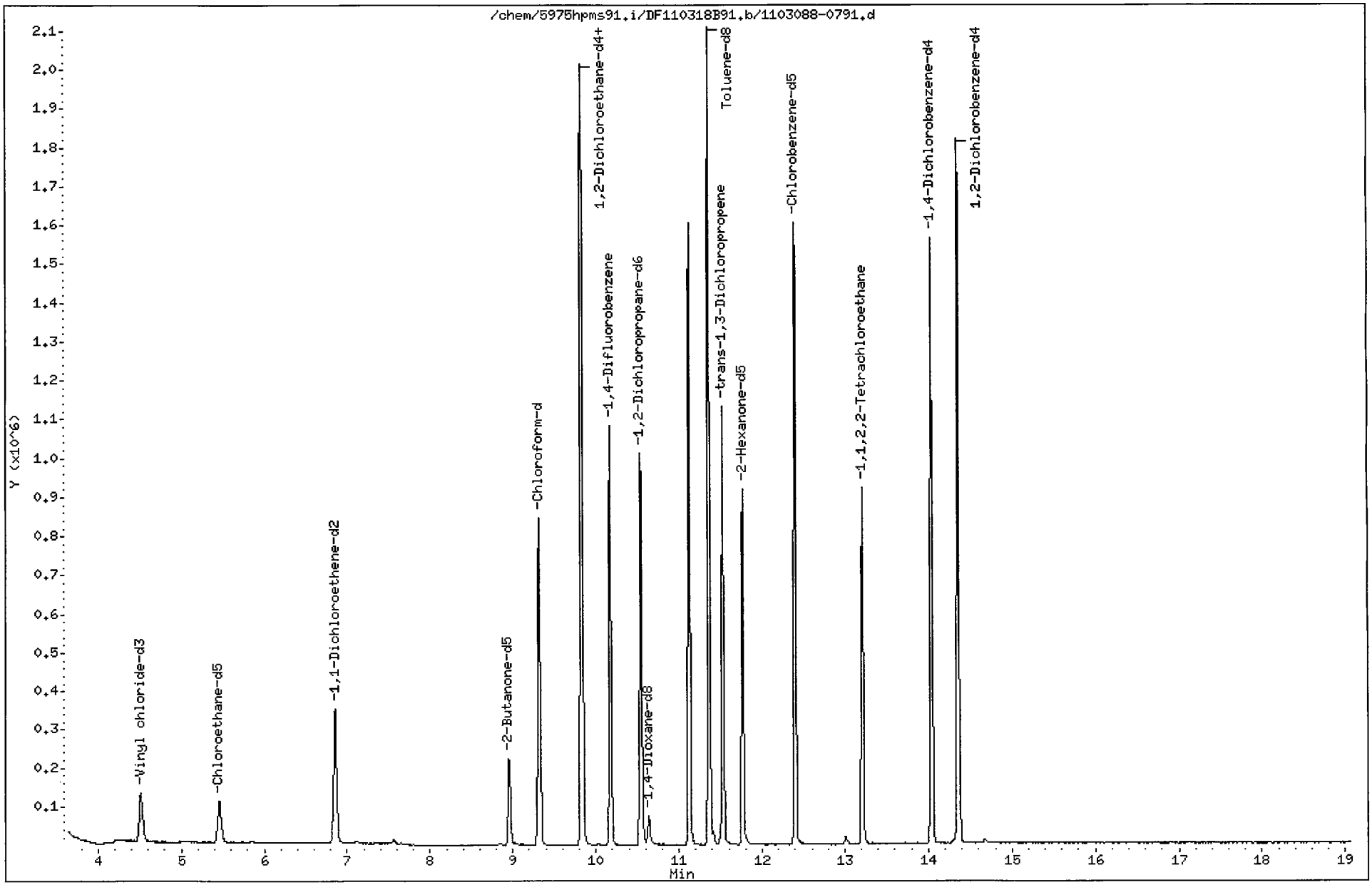
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Date : 19-MAR-2011 12:21
Client ID: TRIPBLANK
Sample Info: 1103088-07:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Lab Smp Id: 1103088-07 Client Smp ID: TRIPBLANK
Inj Date : 19-MAR-2011 12:21
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-07:TD
Misc Info : TRIPBLANK
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	760738	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	757556	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	395051	250.000	
$ 4 Vinyl chloride-d3	65	4.508	4.515	(0.443)	216510	259.053	51.8106
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	159632	270.890	54.1779
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	310905	209.253	41.8507
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	275858	299.625	59.9250
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	666964	251.585	50.3169
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	468059	270.452	54.0904
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1341319	267.510	53.5020
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	398241	255.404	51.0808
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1260530	266.340	53.2680
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	527038	250.256	50.0513
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	264265	385.071	77.0142
$ 15 1,4-Dioxane-d8	96	10.641	10.642	(1.046)	55832	4387.64	877.528(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	452940	253.976	50.7951

AMH 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	486124	268.945	53.7889
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.569	7.563	(0.744)	4164	6.21856	1.24371(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

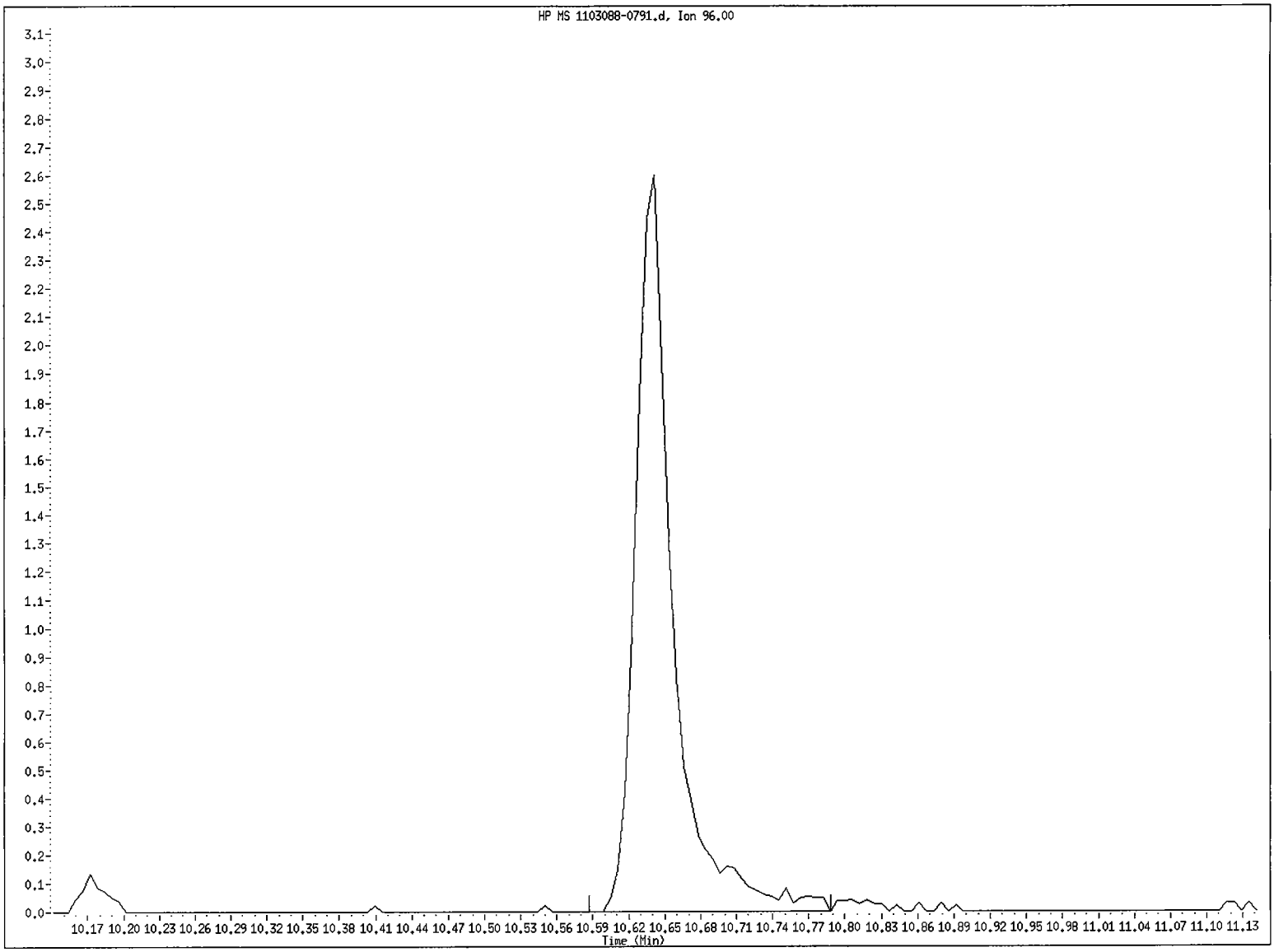
Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Report Date: 21-Mar-2011 17:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 55832 Manually integrated



File name: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Client ID: TRIPBLANK
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 12:21
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d

Date : 19-MAR-2011 12:21

Client ID: TRIPBLANK

Instrument: 5975hpms91.i

Sample Info: 1103088-07:TD

Purge Volume: 5.0

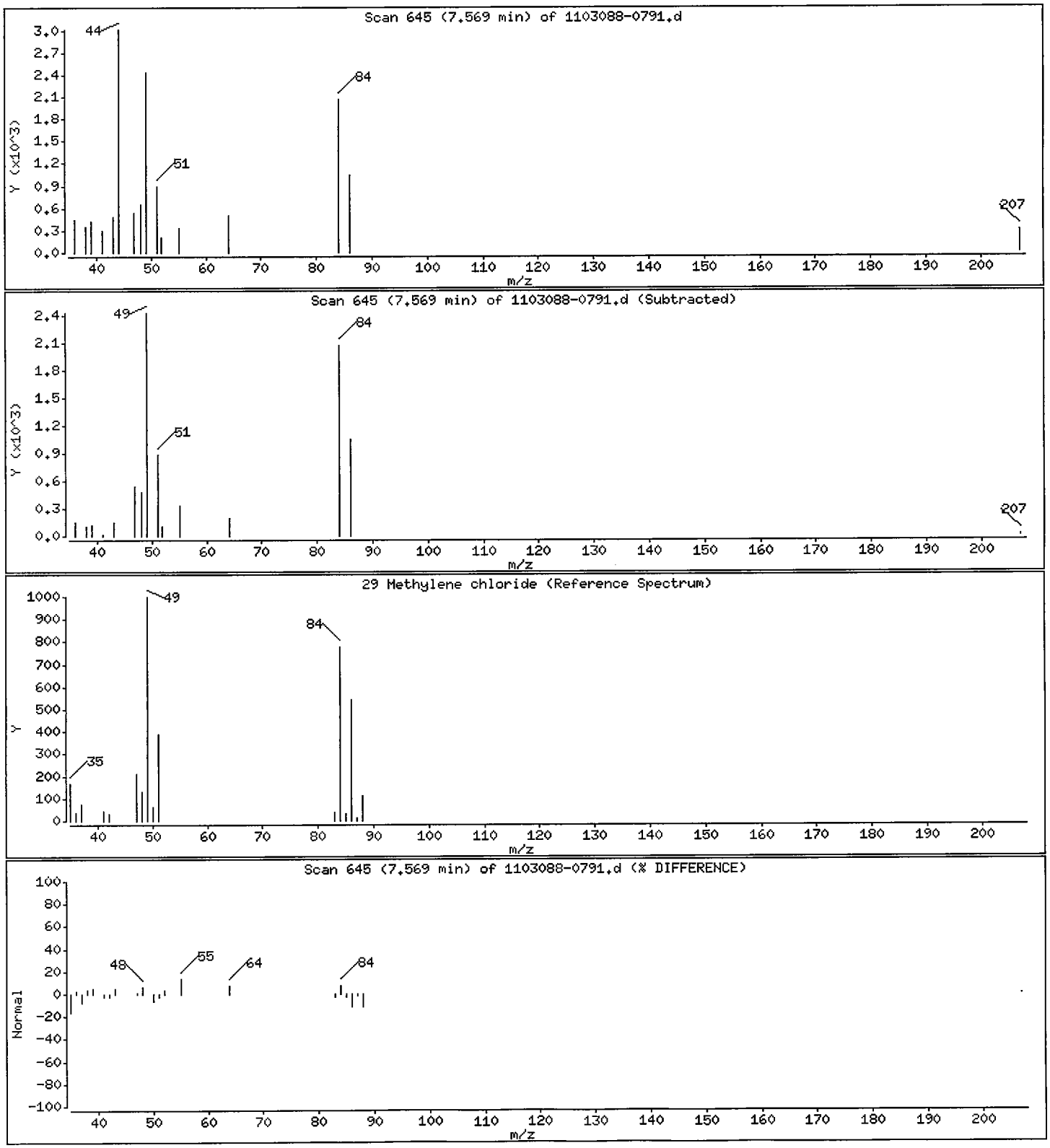
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

29 Methylene chloride

Concentration: 1.24371 ug/L



Data File: /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Report Date: 21-Mar-2011 17:39

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1103088-0791.d
Lab Smp Id: 1103088-07 Client Smp ID: TRIPBLANK
Inj Date : 19-MAR-2011 12:21
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-07:TD
Misc Info : TRIPBLANK
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 22
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

3. Standards Data

a. Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3, VOA SIM)

b. Continuing Calibration Verification Data (Form VII VOA-1, VOA-2, VOA-3, VOA-SIM)

a. Initial Calibration Data (Form VI VOA-1, VOA-2, VOA-3, VOA-SIM)

If more than one instrument is used, forms shall be arranged in order by instrument. Multiple initial calibrations from the same instrument shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for the initial (five-point) calibration. Spectra not required.

(2) EICPs displaying each manual integration.

6A - FORM VI VOA-1
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date(s): 03/19/2011 03/19/2011

Heated Purge: (Y/N) N Calibration Time(s): 0237 0434

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: _____ RRF5.0= 1C19001-CAL1.d RRF10= 1C19001-CAL2.d

RRF50= 1C19001-CAL3.d RRF100= 1C19001-CAL4.d RRF200= 1C19001-CAL5.d

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.451	0.464	0.449	0.448	0.410	0.444	4.5
Chloromethane	0.306	0.324	0.309	0.302	0.303	0.309	2.9
Vinyl chloride	0.270	0.274	0.281	0.282	0.255	0.272	3.9
Bromomethane	0.130	0.120	0.143	0.134	0.111	0.127	9.9
Chloroethane	0.158	0.153	0.149	0.149	0.135	0.149	5.7
Trichlorofluoromethane	0.415	0.434	0.421	0.416	0.397	0.417	3.2
1,1-Dichloroethene	0.182	0.189	0.186	0.185	0.177	0.184	2.6
1,1,2-Trichloro-1,2,2-trifluoroethane	0.164	0.175	0.174	0.172	0.165	0.170	3.1
Acetone	0.075	0.080	0.067	0.068	0.071	0.072	7.6
Carbon disulfide	0.625	0.648	0.664	0.665	0.636	0.648	2.7
Methyl acetate	0.160	0.164	0.149	0.151	0.152	0.155	4.2
Methylene chloride	0.258	0.231	0.208	0.205	0.198	0.220	11.2
trans-1,2-Dichloroethene	0.381	0.406	0.417	0.411	0.379	0.399	4.4
Methyl tert-butyl ether	0.845	1.015	1.194	1.237	1.220	1.102	15.3
1,1-Dichloroethane	0.734	0.754	0.777	0.777	0.739	0.756	2.7
cis-1,2-Dichloroethene	0.384	0.417	0.451	0.454	0.431	0.427	6.7
2-Butanone	0.165	0.202	0.206	0.213	0.215	0.200	10.2
Bromochloromethane	0.190	0.195	0.202	0.196	0.182	0.193	3.9
Chloroform	0.806	0.834	0.848	0.839	0.798	0.825	2.6
1,1,1-Trichloroethane	0.678	0.679	0.704	0.722	0.692	0.695	2.7
Cyclohexane	0.299	0.463	0.553	0.533	0.503	0.470	21.6
Carbon tetrachloride	0.542	0.551	0.580	0.589	0.573	0.567	3.5
Benzene	1.702	1.817	1.785	1.754	1.578	1.727	5.4
1,2-Dichloroethane	0.643	0.693	0.717	0.708	0.681	0.688	4.2
1,4-Dioxane	0.004	0.004	0.005	0.005	0.005	0.005	16.0
Trichloroethene	0.395	0.399	0.438	0.444	0.418	0.419	5.3
Methylcyclohexane	0.314	0.565	0.599	0.553	0.503	0.507	22.4

Report 1,4-Dioxane for Low-Medium VOA analysis only

6B - FORM VI VOA-2
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date(s): 03/19/2011 03/19/2011

Heated Purge: (Y/N) N Calibration Time(s): 0237 0434

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: RRF5.0= 1C19001-CAL1.d RRF10= 1C19001-CAL2.d

RRF50= 1C19001-CAL3.d RRF100= 1C19001-CAL4.d RRF200= 1C19001-CAL5.d

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
1,2-Dichloropropane	0.441	0.460	0.458	0.441	0.407	0.441	4.9
Bromodichloromethane	0.600	0.624	0.651	0.665	0.641	0.636	3.9
cis-1,3-Dichloropropene	0.676	0.752	0.822	0.823	0.774	0.769	7.9
4-Methyl-2-pentanone	0.388	0.467	0.472	0.471	0.445	0.449	8.0
Toluene	1.869	1.903	1.864	1.851	1.720	1.841	3.8
trans-1,3-Dichloropropene	0.677	0.744	0.802	0.807	0.769	0.760	6.9
1,1,2-Trichloroethane	0.386	0.407	0.402	0.402	0.383	0.396	2.7
Tetrachloroethene	0.277	0.308	0.317	0.300	0.288	0.298	5.3
2-Hexanone	0.290	0.370	0.373	0.367	0.343	0.349	9.9
Dibromochloromethane	0.386	0.412	0.470	0.478	0.473	0.444	9.5
1,2-Dibromoethane	0.363	0.398	0.411	0.417	0.409	0.399	5.4
Chlorobenzene	1.212	1.241	1.220	1.197	1.125	1.199	3.7
Ethylbenzene	1.728	1.989	2.120	2.033	1.917	1.957	7.5
o-Xylene	0.636	0.769	0.806	0.755	0.677	0.728	9.6
m,p-Xylene	0.604	0.758	0.814	0.783	0.749	0.741	10.9
Styrene	1.141	1.287	1.403	1.343	1.205	1.276	8.2
Bromoform	0.433	0.485	0.542	0.576	0.582	0.524	12.2
Isopropylbenzene	1.283	1.897	2.007	1.894	1.828	1.782	16.1
1,1,2,2-Tetrachloroethane	0.556	0.615	0.571	0.575	0.556	0.574	4.2
1,3-Dichlorobenzene	1.284	1.660	1.723	1.649	1.600	1.583	10.9
1,4-Dichlorobenzene	1.549	1.812	1.793	1.705	1.654	1.703	6.3
1,2-Dichlorobenzene	1.401	1.698	1.696	1.592	1.509	1.579	8.0
1,2-Dibromo-3-chloropropane	0.209	0.223	0.224	0.236	0.242	0.227	5.7
1,2,4-Trichlorobenzene	0.754	1.083	1.156	1.075	1.055	1.025	15.2
1,2,3-Trichlorobenzene	0.723	0.979	1.062	0.989	0.970	0.945	13.7

6C - FORM VI VOA-3
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date(s): 03/19/2011 03/19/2011

Heated Purge: (Y/N) N Calibration Time(s): 0237 0434

Purge Volume: 5.0 (mL)

GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

LAB FILE ID: _____ RRF5.0= 1C19001-CAL1.d RRF10= 1C19001-CAL2.d

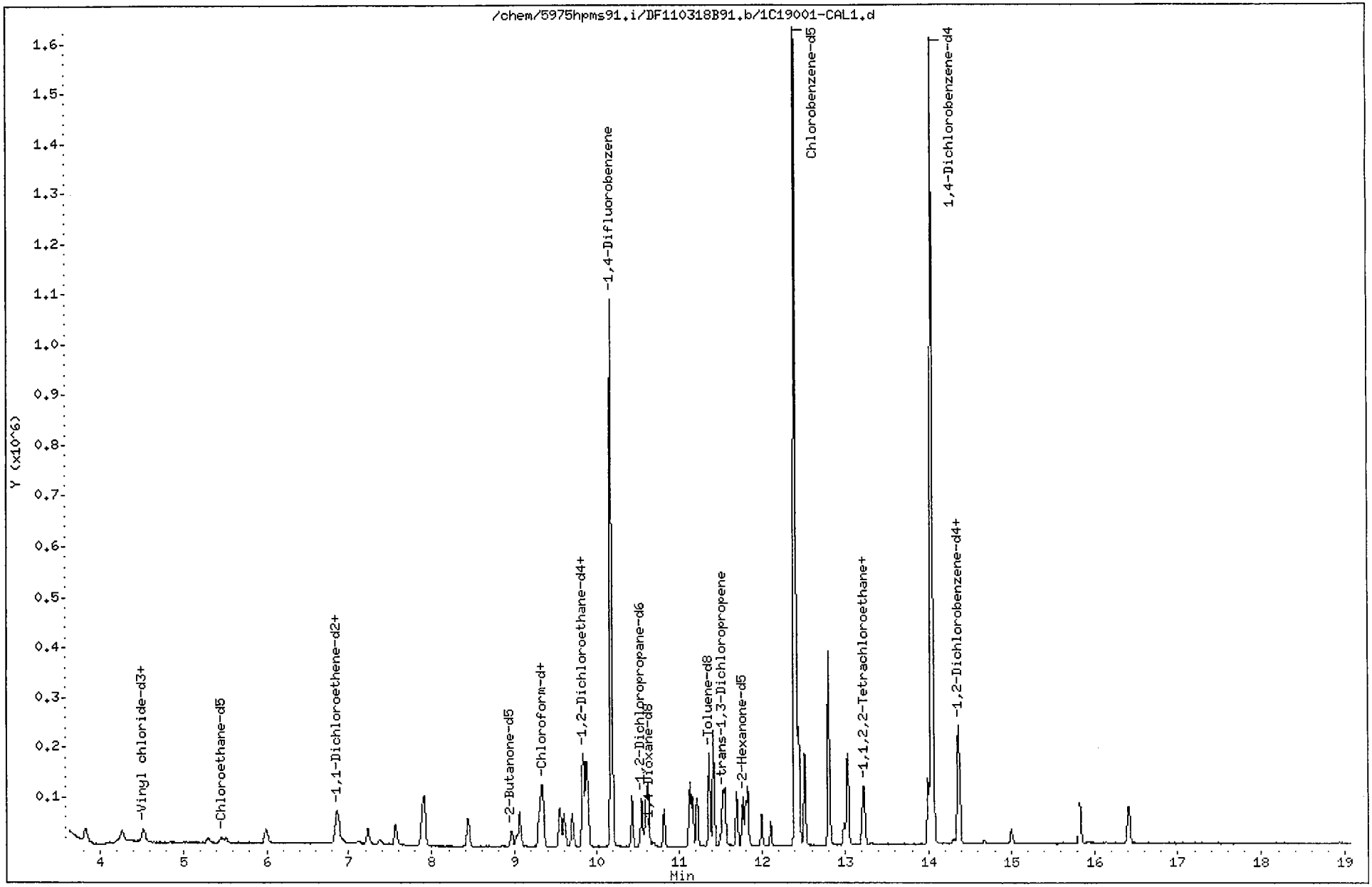
RRF50= 1C19001-CAL3.d RRF100= 1C19001-CAL4.d RRF200= 1C19001-CAL5.d

COMPOUND	RRF5.0	RRF10	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Vinyl chloride-d3	0.289	0.277	0.278	0.277	0.253	0.275	4.9
Chloroethane-d5	0.202	0.203	0.198	0.192	0.173	0.194	6.4
1,1-Dichloroethene-d2	0.476	0.498	0.501	0.499	0.467	0.488	3.2
2-Butanone-d5	0.249	0.312	0.313	0.324	0.315	0.303	10.1
Chloroform-d	0.851	0.899	0.894	0.885	0.827	0.871	3.5
1,2-Dichloroethane-d4	0.550	0.578	0.586	0.582	0.549	0.569	3.2
Benzene-d6	1.569	1.726	1.762	1.707	1.510	1.655	6.6
1,2-Dichloropropane-d6	0.491	0.529	0.540	0.527	0.486	0.515	4.7
Toluene-d8	1.392	1.578	1.674	1.653	1.513	1.562	7.3
trans-1,3-Dichloropropene-d4	0.596	0.674	0.741	0.752	0.712	0.695	9.0
2-Hexanone-d5	0.175	0.225	0.250	0.251	0.232	0.226	13.8
1,4-Dioxane-d8	0.004	0.004	0.004	0.005	0.004	0.004	8.5
1,1,2,2-Tetrachloroethane-d2	0.552	0.634	0.602	0.598	0.556	0.589	5.8
1,2-Dichlorobenzene-d4	1.110	1.184	1.192	1.180	1.054	1.144	5.3

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Date : 19-MAR-2011 03:06
Client ID: VSTD005EA
Sample Info: 1C19001-CAL1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Report Date: 21-Mar-2011 17:35

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Lab Smp Id: 1C19001-CAL1 Client Smp ID: VSTD005EA
Inj Date : 19-MAR-2011 03:06
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CAL1:TD
Misc Info : VSTD005EA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:06 Cal File: 1C19001-CAL1.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	794834	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	777361	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	411071	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	22984	25.0000	25.0000
$ 5 Chloroethane-d5	69	5.460	5.453	(0.536)	16078	25.0000	25.0000
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	37859	25.0000	25.0000
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	39539	50.0000	50.0000
$ 8 Chloroform-d	84	9.325	9.319	(0.916)	67675	25.0000	25.0000
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	43695	25.0000	25.0000
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	121945	25.0000	25.0000
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	38198	25.0000	25.0000
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	108178	25.0000	25.0000
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	46355	25.0000	25.0000
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	27133	50.0000	50.0000
$ 15 1,4-Dioxane-d8	96	10.642	10.642	(1.046)	5977	500.000	500.000
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.066)	42936	25.0000	25.0000

3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.360	14.354	(1.023)	45624	25.0000	25.0000
18 Dichlorodifluoromethane	85	3.826	3.826	(0.376)	35817	25.0000	25.0000
19 Chloromethane	50	4.265	4.265	(0.419)	24296	25.0000	25.0000
20 Vinyl chloride	62	4.527	4.527	(0.445)	21479	25.0000	25.0000
21 Bromomethane	94	5.307	5.295	(0.521)	10338	25.0000	25.0000
22 Chloroethane	64	5.515	5.514	(0.542)	12570	25.0000	25.0000
23 Trichlorofluoromethane	101	5.990	5.996	(0.589)	32990	25.0000	25.0000
24 1,1-Dichloroethene	96	6.880	6.874	(0.676)	14476	25.0000	25.0000
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.850	6.843	(0.673)	12997	25.0000	25.0000
26 Acetone	43	6.929	6.929	(0.681)	11866	50.0000	50.0000
27 Carbon disulfide	76	7.234	7.228	(0.711)	49674	25.0000	25.0000
28 Methyl acetate	43	7.380	7.380	(0.725)	12707	25.0000	25.0000
29 Methylene chloride	84	7.563	7.563	(0.743)	20543	25.0000	25.0000
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.777)	30267	25.0000	25.0000
31 Methyl tert-butyl ether	73	7.886	7.880	(0.775)	67160	25.0000	25.0000
32 1,1-Dichloroethane	63	8.435	8.435	(0.829)	58322	25.0000	25.0000
33 cis-1,2-Dichloroethene	96	9.057	9.056	(0.890)	30505	25.0000	25.0000
34 2-Butanone	43	9.020	9.014	(0.886)	26203	50.0000	50.0000
35 Bromochloromethane	128	9.294	9.294	(0.913)	15122	25.0000	25.0000
36 Chloroform	83	9.343	9.337	(0.918)	64087	25.0000	25.0000
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	52692	25.0000	25.0000
38 Cyclohexane	56	9.605	9.599	(0.775)	23249	25.0000	25.0000
39 Carbon tetrachloride	117	9.703	9.703	(0.783)	42138	25.0000	25.0000
40 Benzene	78	9.873	9.873	(0.796)	132336	25.0000	25.0000
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	51123	25.0000	25.0000
42 1,4-Dioxane	88	10.684	10.684	(1.050)	5702	500.000	500.000
43 Trichloroethene	95	10.428	10.428	(0.841)	30707	25.0000	25.0000
44 Methylcyclohexane	83	10.593	10.593	(0.854)	24375	25.0000	25.0000
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	34280	25.0000	25.0000
46 Bromodichloromethane	83	10.818	10.812	(0.873)	46672	25.0000	25.0000
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	52540	25.0000	25.0000
48 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	60281	50.0000	50.0000
49 Toluene	91	11.410	11.410	(0.920)	145255	25.0000	25.0000
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	52660	25.0000	25.0000
51 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	29977	25.0000	25.0000
52 Tetrachloroethene	164	11.824	11.824	(0.954)	21528	25.0000	25.0000
53 2-Hexanone	43	11.800	11.800	(0.952)	45129	50.0000	50.0000
54 Dibromochloromethane	129	11.995	11.989	(0.968)	30012	25.0000	25.0000
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	28195	25.0000	25.0000
56 Chlorobenzene	112	12.422	12.422	(1.002)	94199	25.0000	25.0000
57 Ethylbenzene	91	12.446	12.446	(1.004)	134356	25.0000	25.0000
58 m,p-Xylene	106	12.513	12.513	(1.009)	46956	25.0000	25.0000
59 o-Xylene	106	12.806	12.800	(1.033)	49425	25.0000	25.0000
60 Styrene	104	12.806	12.806	(1.033)	88713	25.0000	25.0000
61 Bromoform	173	12.989	12.989	(0.925)	17810	25.0000	25.0000
62 Isopropylbenzene	105	13.031	13.031	(1.051)	99739	25.0000	25.0000
63 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(1.067)	43224	25.0000	25.0000

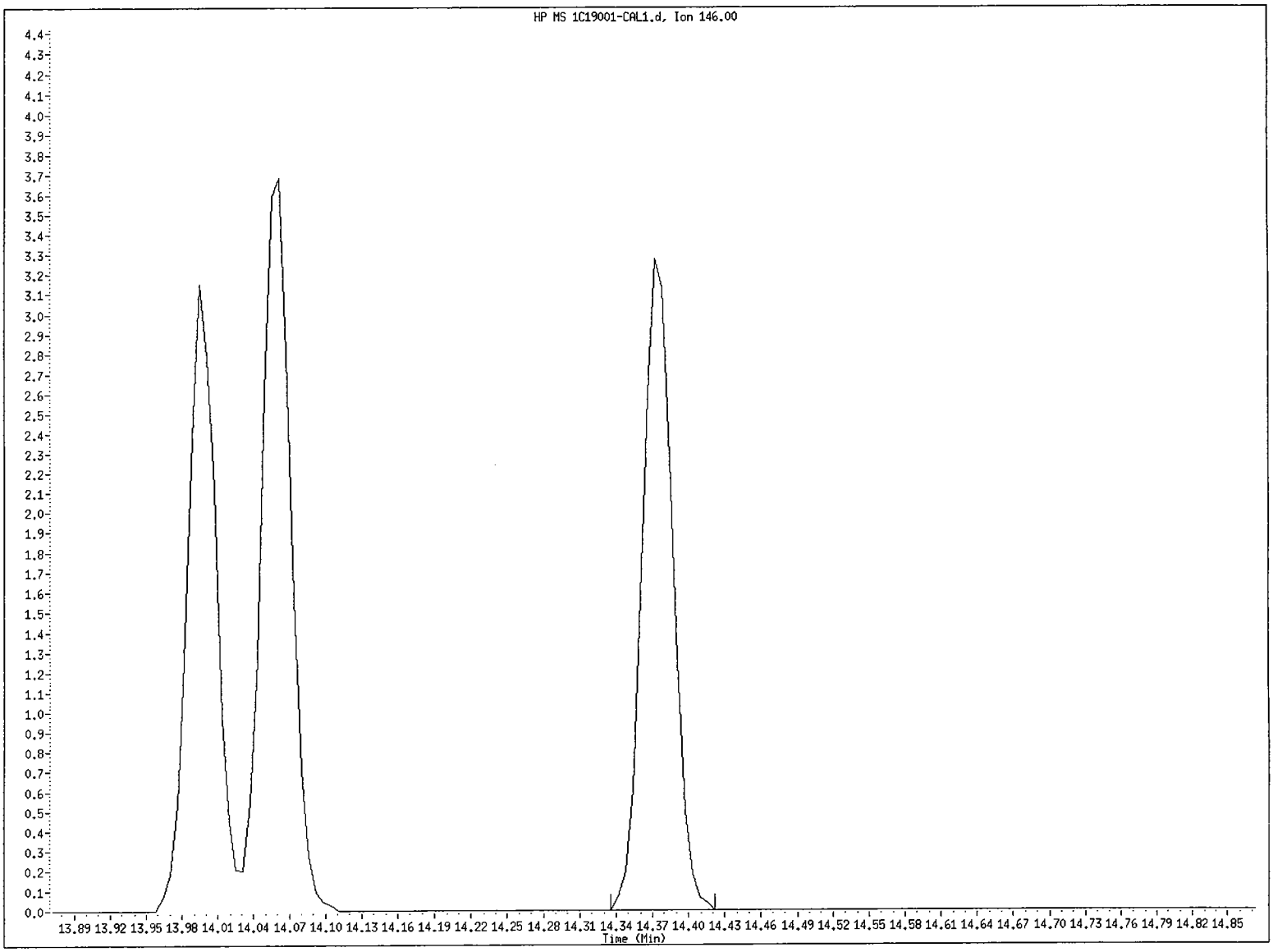
Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	52771	25.0000	25.0000
65 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	63663	25.0000	25.0000
66 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	57598	25.0000	25.0000(H)
67 1,2-Dibromo-3-chloropropane	75	15.007	15.000	(1.069)	8584	25.0000	25.0000
68 1,2,4-Trichlorobenzene	180	15.830	15.823	(1.128)	31001	25.0000	25.0000
69 1,2,3-Trichlorobenzene	180	16.415	16.409	(1.169)	29713	25.0000	25.0000

QC Flag Legend

H - Operator selected an alternate compound hit.

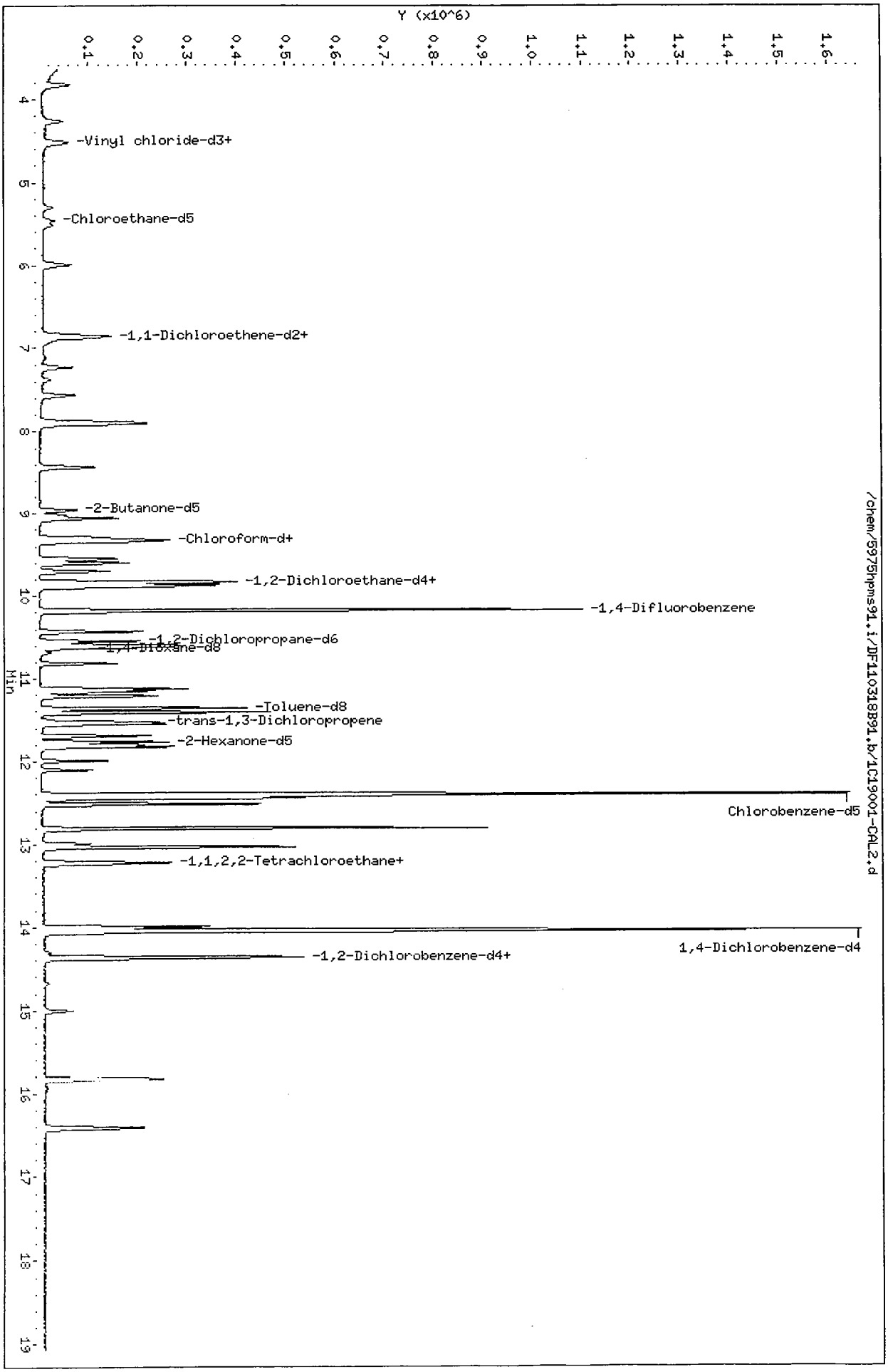
1,2-Dichlorobenzene CAS Number 95-50-1 Area = 57598 User selected hit



File name: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL1.d
Client ID: VSTD005EA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 03:06
Retention Time: 14.37
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Date : 19-MAR-2011 02:37
Client ID: VSTD010EA
Sample Info: 1C19001-CAL2:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Report Date: 21-Mar-2011 17:35

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Lab Smp Id: 1C19001-CAL2 Client Smp ID: VSTD010EA
Inj Date : 19-MAR-2011 02:37
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CAL2:TD
Misc Info : VSTD010EA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 02:37 Cal File: 1C19001-CAL2.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	794392	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	782704	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	421149	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	43958	50.0000	48.8963
$ 5 Chloroethane-d5	69	5.460	5.453	(0.536)	32227	50.0000	50.0690
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	79134	50.0000	51.1169
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	98988	100.000	111.209
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	142756	50.0000	51.3454
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	91788	50.0000	51.2412
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	270232	50.0000	52.3910
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	82742	50.0000	51.8229
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	247004	50.0000	53.1366
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	105492	50.0000	53.0539
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	70448	100.000	112.638
$ 15 1,4-Dioxane-d8	96	10.636	10.642	(1.045)	12992	1000.00	1041.89
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.066)	99285	50.0000	53.4517

3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.360	14.354	(1.023)	99737	50.0000	51.6178
18 Dichlorodifluoromethane	85	3.826	3.826	(0.376)	73746	50.0000	50.7403
19 Chloromethane	50	4.265	4.265	(0.419)	51510	50.0000	51.4714
20 Vinyl chloride	62	4.527	4.527	(0.445)	43523	50.0000	50.3406
21 Bromomethane	94	5.301	5.295	(0.521)	19022	50.0000	47.9307
22 Chloroethane	64	5.515	5.514	(0.542)	24287	50.0000	49.1510
23 Trichlorofluoromethane	101	5.996	5.996	(0.589)	69003	50.0000	51.1337
24 1,1-Dichloroethene	96	6.880	6.874	(0.676)	30063	50.0000	50.9552
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.850	6.843	(0.673)	27842	50.0000	51.7302
26 Acetone	43	6.923	6.929	(0.680)	25420	100.000	103.462
27 Carbon disulfide	76	7.228	7.228	(0.710)	102978	50.0000	50.9110
28 Methyl acetate	43	7.380	7.380	(0.725)	26090	50.0000	50.6702
29 Methylene chloride	84	7.569	7.563	(0.744)	36626	50.0000	47.1443
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.777)	64584	50.0000	51.6324
31 Methyl tert-butyl ether	73	7.886	7.880	(0.775)	161293	50.0000	54.5760
32 1,1-Dichloroethane	63	8.429	8.435	(0.828)	119764	50.0000	50.6738
33 cis-1,2-Dichloroethene	96	9.057	9.056	(0.890)	66208	50.0000	52.0568
34 2-Butanone	43	9.020	9.014	(0.886)	64158	100.000	110.110
35 Bromochloromethane	128	9.294	9.294	(0.913)	31018	50.0000	50.6456
36 Chloroform	83	9.343	9.337	(0.918)	132577	50.0000	50.8582
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	106248	50.0000	50.0329
38 Cyclohexane	56	9.605	9.599	(0.775)	72413	50.0000	60.7336
39 Carbon tetrachloride	117	9.703	9.703	(0.783)	86302	50.0000	50.4226
40 Benzene	78	9.873	9.873	(0.796)	284444	50.0000	51.6293
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	110156	50.0000	51.8759
42 1,4-Dioxane	88	10.684	10.684	(1.050)	12826	1000.00	1058.96
43 Trichloroethene	95	10.428	10.428	(0.841)	62518	50.0000	50.2742
44 Methylcyclohexane	83	10.593	10.593	(0.854)	88434	50.0000	64.3067
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	71983	50.0000	51.0466
46 Bromodichloromethane	83	10.812	10.812	(0.872)	97727	50.0000	50.9758
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	117707	50.0000	52.6631
48 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	146359	100.000	109.325
49 Toluene	91	11.410	11.410	(0.920)	297975	50.0000	50.4630
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	116408	50.0000	52.3295
51 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	63640	50.0000	51.3201
52 Tetrachloroethene	164	11.830	11.824	(0.954)	48165	50.0000	52.6296
53 2-Hexanone	43	11.800	11.800	(0.952)	115751	100.000	112.037
54 Dibromochloromethane	129	11.995	11.989	(0.968)	64441	50.0000	51.6033
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	62249	50.0000	52.2984
56 Chlorobenzene	112	12.422	12.422	(1.002)	194318	50.0000	50.6022
57 Ethylbenzene	91	12.446	12.446	(1.004)	311306	50.0000	53.5014
58 m,p-Xylene	106	12.519	12.513	(1.010)	118649	50.0000	55.6498
59 o-Xylene	106	12.800	12.800	(1.032)	120324	50.0000	54.7292
60 Styrene	104	12.806	12.806	(1.033)	201425	50.0000	52.9967
61 Bromoform	173	12.989	12.989	(0.925)	40824	50.0000	52.8006
62 Isopropylbenzene	105	13.031	13.031	(1.051)	296937	50.0000	59.6515
63 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(1.067)	96207	50.0000	52.5006

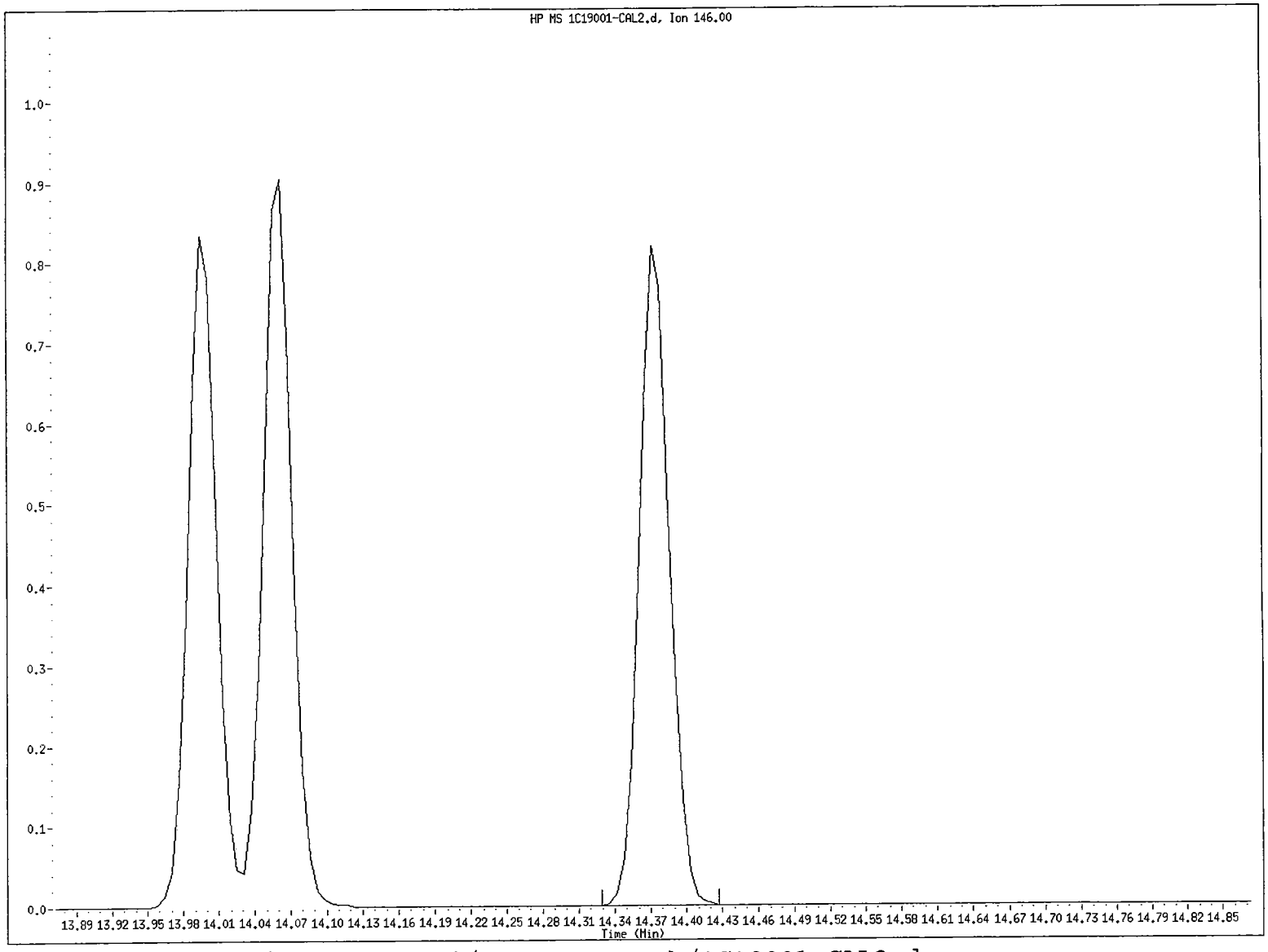
Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	139830	50.0000	56.3923
65 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	152644	50.0000	53.9204
66 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	142993	50.0000	54.7838(H)
67 1,2-Dibromo-3-chloropropane	75	15.007	15.000	(1.069)	18777	50.0000	51.6335
68 1,2,4-Trichlorobenzene	180	15.830	15.823	(1.128)	91229	50.0000	58.9521
69 1,2,3-Trichlorobenzene	180	16.415	16.409	(1.169)	82455	50.0000	57.5249

QC Flag Legend

H - Operator selected an alternate compound hit.

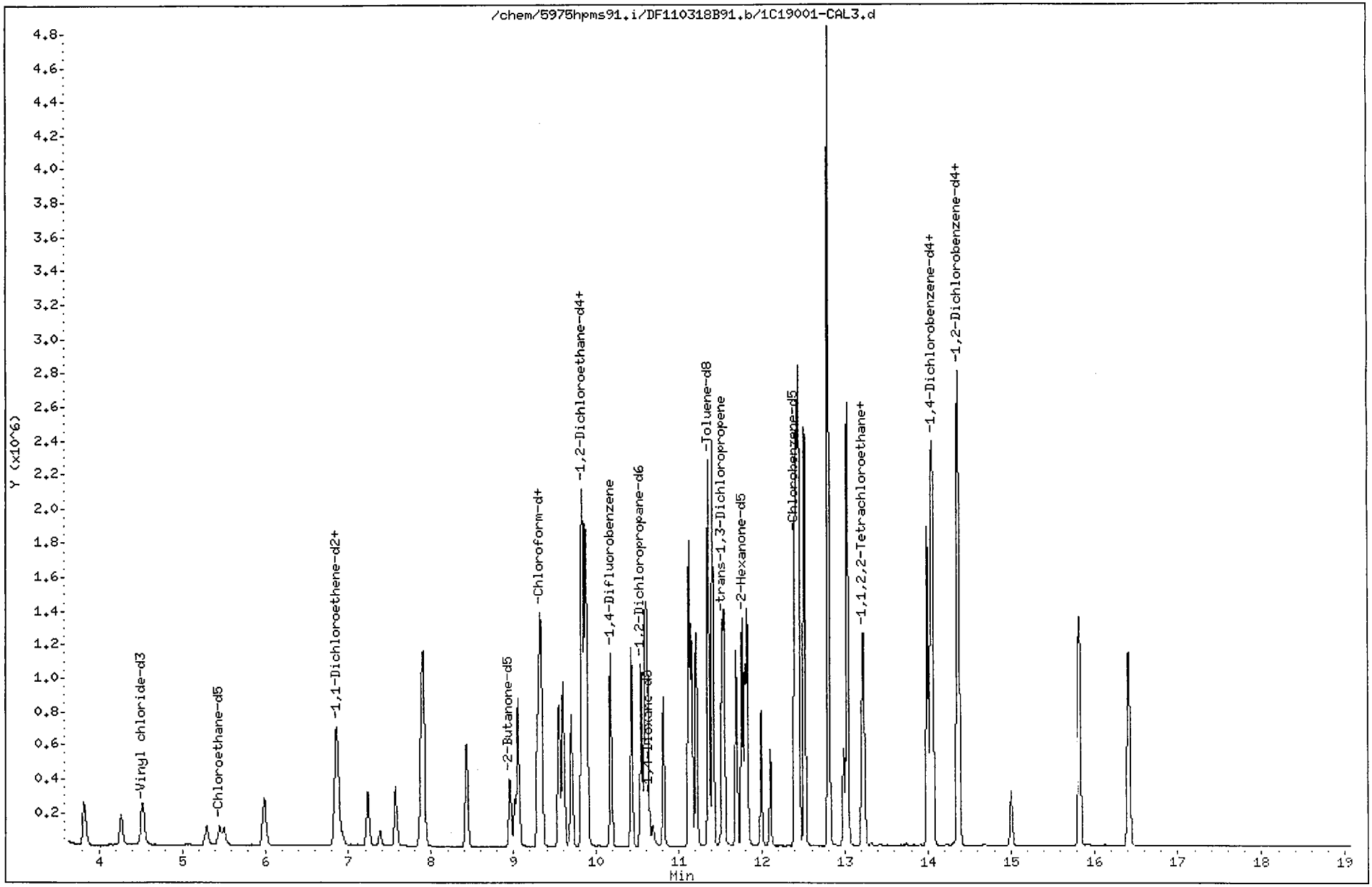
1,2-Dichlorobenzene CAS Number 95-50-1 Area = 142993 User selected hit



File name: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL2.d
Client ID: VSTD010EA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 02:37
Retention Time: 14.37
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Date : 19-MAR-2011 04:34
Client ID: VSTD050EA
Sample Info: 1C19001-CAL3:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Report Date: 21-Mar-2011 17:35

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Lab Smp Id: 1C19001-CAL3 Client Smp ID: VSTD050EA
Inj Date : 19-MAR-2011 04:34
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CAL3:TD
Misc Info : VSTD050EA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 04:34 Cal File: 1C19001-CAL3.d
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	834550	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	820306	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	447649	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	232084	250.000	247.140
$ 5 Chloroethane-d5	69	5.454	5.453	(0.536)	165199	250.000	246.177
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	418317	250.000	254.761
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	522696	500.000	537.826
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	746023	250.000	253.582
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	489057	250.000	256.502
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1445186	250.000	261.299
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	443202	250.000	259.715
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1372908	250.000	270.342
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	608021	250.000	276.377
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	409772	500.000	577.006
$ 15 1,4-Dioxane-d8	96	10.642	10.642	(1.046)	66308	5000.00	5040.94
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.066)	493563	250.000	252.347

3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	533577	250.000	256.449
18 Dichlorodifluoromethane	85	3.826	3.826	(0.376)	374515	250.000	246.835
19 Chloromethane	50	4.265	4.265	(0.419)	257887	250.000	246.843
20 Vinyl chloride	62	4.527	4.527	(0.445)	234280	250.000	255.237
21 Bromomethane	94	5.295	5.295	(0.520)	119099	250.000	272.694
22 Chloroethane	64	5.515	5.514	(0.542)	124737	250.000	243.442
23 Trichlorofluoromethane	101	5.996	5.996	(0.589)	351423	250.000	248.587
24 1,1-Dichloroethene	96	6.874	6.874	(0.675)	155221	250.000	250.288
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.844	6.843	(0.672)	145051	250.000	254.319
26 Acetone	43	6.923	6.929	(0.680)	111027	500.000	451.157
27 Carbon disulfide	76	7.228	7.228	(0.710)	554317	250.000	257.137
28 Methyl acetate	43	7.380	7.380	(0.725)	124150	250.000	235.959
29 Methylene chloride	84	7.563	7.563	(0.743)	173791	250.000	224.006
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.777)	348363	250.000	259.869
31 Methyl tert-butyl ether	73	7.886	7.880	(0.775)	996615	250.000	293.236
32 1,1-Dichloroethane	63	8.435	8.435	(0.829)	648120	250.000	257.249
33 cis-1,2-Dichloroethene	96	9.057	9.056	(0.890)	376080	250.000	270.134
34 2-Butanone	43	9.014	9.014	(0.886)	343065	500.000	538.736
35 Bromochloromethane	128	9.294	9.294	(0.913)	168277	250.000	257.576
36 Chloroform	83	9.343	9.337	(0.918)	707514	250.000	255.506
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	577196	250.000	256.154
38 Cyclohexane	56	9.599	9.599	(0.774)	453948	250.000	315.610
39 Carbon tetrachloride	117	9.703	9.703	(0.783)	475563	250.000	259.878
40 Benzene	78	9.873	9.873	(0.796)	1464185	250.000	252.376
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	598222	250.000	261.824
42 1,4-Dioxane	88	10.684	10.684	(1.050)	83667	5000.00	5950.48
43 Trichloroethene	95	10.428	10.428	(0.841)	358955	250.000	266.394
44 Methylcyclohexane	83	10.593	10.593	(0.854)	491155	250.000	303.987
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	376076	250.000	252.961
46 Bromodichloromethane	83	10.812	10.812	(0.872)	534142	250.000	260.345
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	674688	250.000	274.126
48 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	774592	500.000	533.550
49 Toluene	91	11.410	11.410	(0.920)	1528948	250.000	248.034
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	658099	250.000	270.631
51 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	329823	250.000	252.508
52 Tetrachloroethene	164	11.824	11.824	(0.954)	259841	250.000	263.563
53 2-Hexanone	43	11.800	11.800	(0.952)	611855	500.000	541.581
54 Dibromochloromethane	129	11.995	11.989	(0.968)	385357	250.000	277.971
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	337034	250.000	263.100
56 Chlorobenzene	112	12.422	12.422	(1.002)	1000760	250.000	249.106
57 Ethylbenzene	91	12.446	12.446	(1.004)	1738994	250.000	272.394
58 m,p-Xylene	106	12.513	12.513	(1.009)	667603	250.000	280.529
59 o-Xylene	106	12.800	12.800	(1.032)	661104	250.000	273.458
60 Styrene	104	12.806	12.806	(1.033)	1150491	250.000	274.612
61 Bromoform	173	12.989	12.989	(0.925)	242723	250.000	278.508
62 Isopropylbenzene	105	13.031	13.031	(1.051)	1645953	250.000	290.158
63 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(1.067)	468072	250.000	245.778

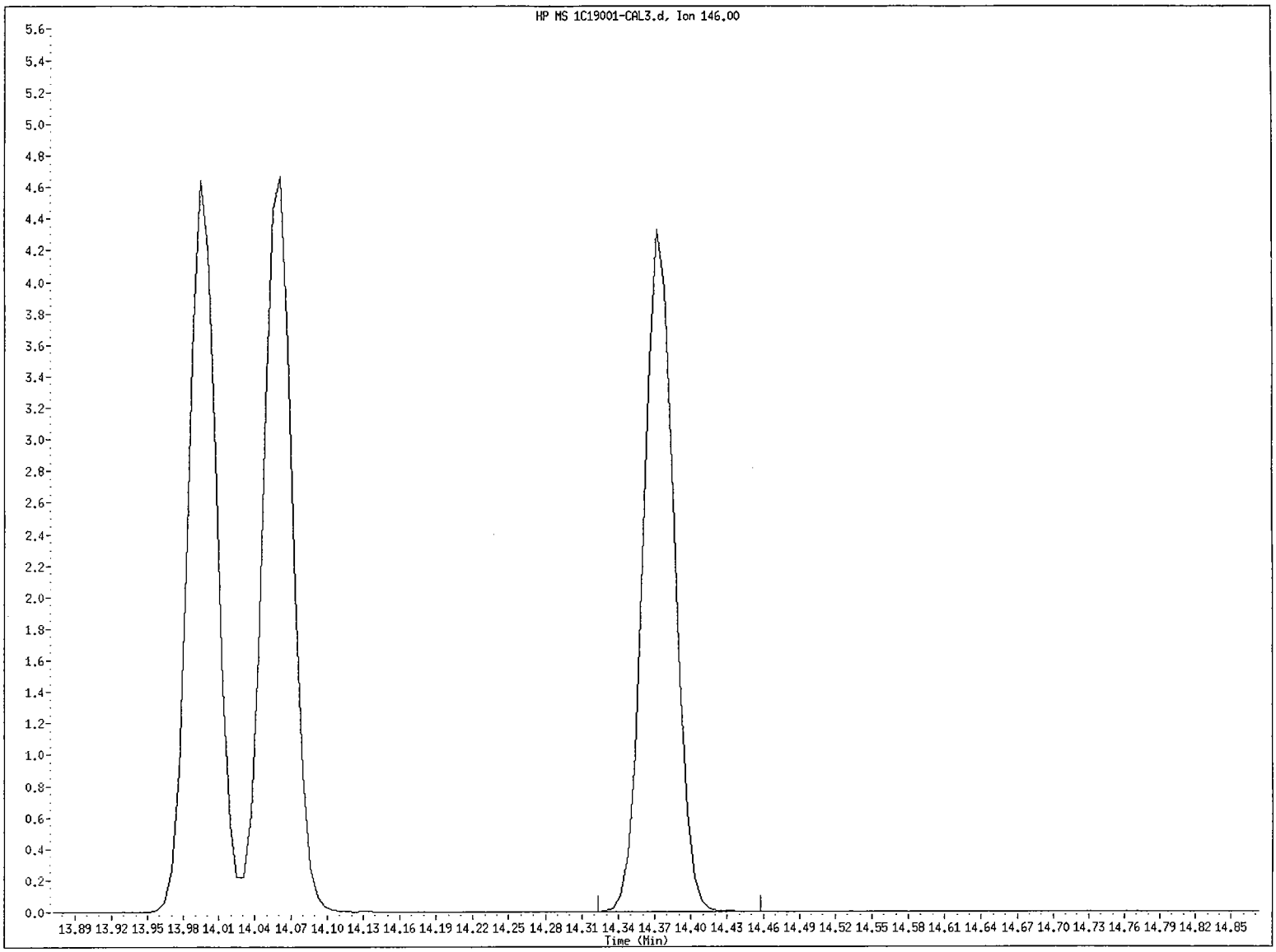
Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	771450	250.000	276.934
65 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	802731	250.000	260.937
66 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	759075	250.000	265.255(H)
67 1,2-Dibromo-3-chloropropane	75	15.007	15.000	(1.069)	100424	250.000	256.450
68 1,2,4-Trichlorobenzene	180	15.830	15.823	(1.128)	517271	250.000	289.579
69 1,2,3-Trichlorobenzene	180	16.415	16.409	(1.169)	475336	250.000	288.170

QC Flag Legend

H - Operator selected an alternate compound hit.

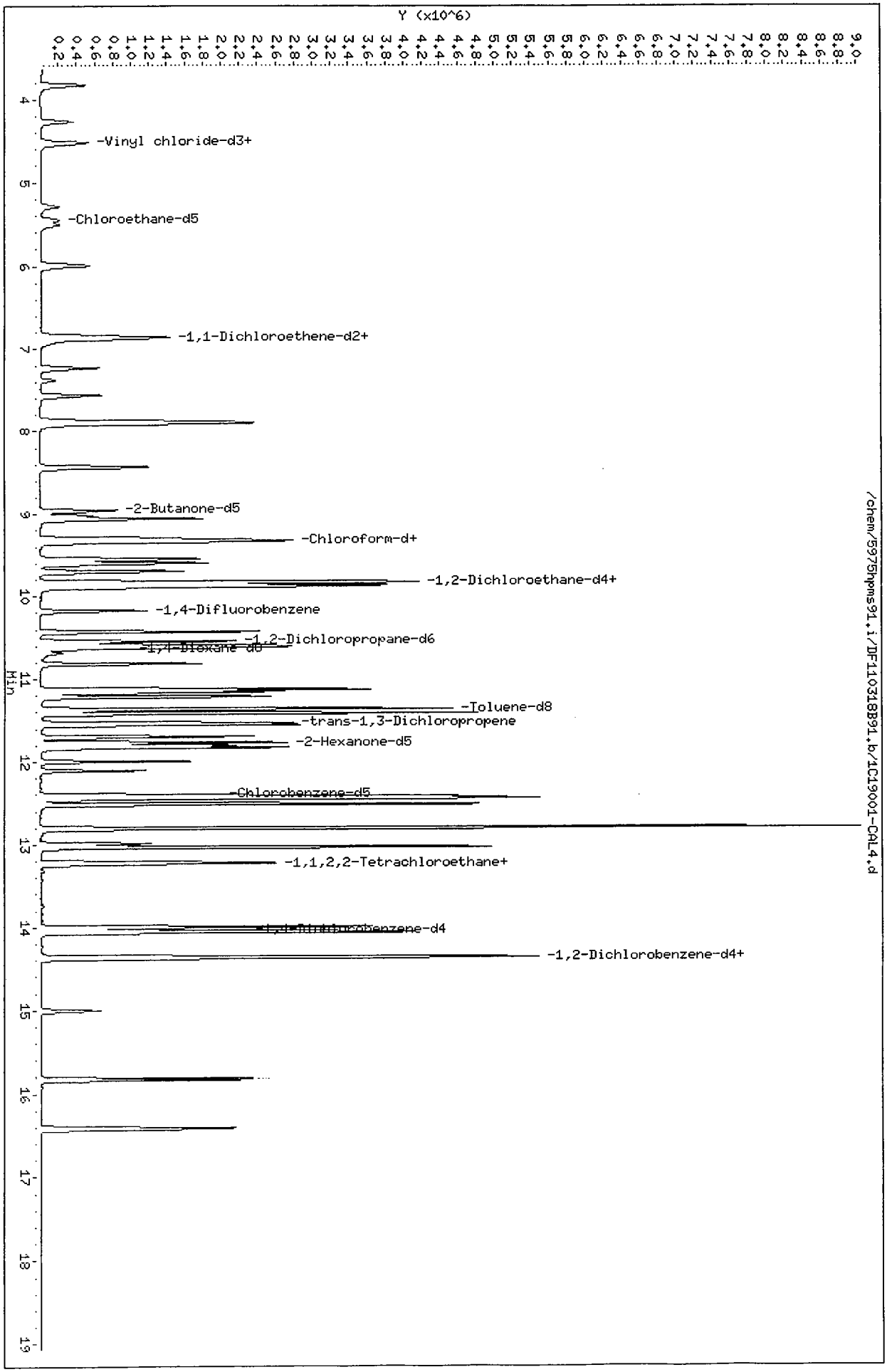
1,2-Dichlorobenzene CAS Number 95-50-1 Area = 759075 User selected hit



File name: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL3.d
Client ID: VSTD050EA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 04:34
Retention Time: 14.37
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Date : 19-MAR-2011 04:05
Client ID: VSTD100EA
Sample Info: 1C19001-CAL4:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Report Date: 21-Mar-2011 17:35

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Lab Smp Id: 1C19001-CAL4 Client Smp ID: VSTD100EA
Inj Date : 19-MAR-2011 04:05
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CAL4:TD
Misc Info : VSTD100EA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 04:05 Cal File: 1C19001-CAL4.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	854734	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	837304	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	455888	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	473082	500.000	493.882
$ 5 Chloroethane-d5	69	5.454	5.453	(0.536)	328726	500.000	483.542
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	852225	500.000	505.054
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	1108135	1000.00	1082.62
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	1513361	500.000	501.695
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	994341	500.000	506.868
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	2857971	500.000	504.673
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	882257	500.000	504.863
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	2768647	500.000	525.156
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	1258734	500.000	544.074
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	842188	1000.00	1116.65
$ 15 1,4-Dioxane-d8	96	10.635	10.642	(1.046)	158540	10000.0	11269.9
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.066)	1001977	500.000	501.414

pmd 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	1075667	500.000	505.713
18 Dichlorodifluoromethane	85	3.826	3.826	(0.376)	765791	500.000	494.579
19 Chloromethane	50	4.265	4.265	(0.419)	516742	500.000	487.089
20 Vinyl chloride	62	4.527	4.527	(0.445)	481354	500.000	508.968
21 Bromomethane	94	5.289	5.295	(0.520)	229263	500.000	509.342
22 Chloroethane	64	5.508	5.514	(0.542)	255313	500.000	489.816
23 Trichlorofluoromethane	101	5.990	5.996	(0.589)	710907	500.000	493.220
24 1,1-Dichloroethene	96	6.874	6.874	(0.676)	317084	500.000	499.408
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.844	6.843	(0.673)	293809	500.000	502.227
26 Acetone	43	6.923	6.929	(0.681)	231328	1000.00	937.057
27 Carbon disulfide	76	7.228	7.228	(0.711)	1137132	500.000	511.193
28 Methyl acetate	43	7.374	7.380	(0.725)	258501	500.000	484.621
29 Methylene chloride	84	7.563	7.563	(0.743)	350513	500.000	454.502
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.778)	702086	500.000	508.478
31 Methyl tert-butyl ether	73	7.880	7.880	(0.775)	2115155	500.000	576.614
32 1,1-Dichloroethane	63	8.435	8.435	(0.829)	1327756	500.000	510.842
33 cis-1,2-Dichloroethene	96	9.057	9.056	(0.890)	776311	500.000	532.611
34 2-Butanone	43	9.014	9.014	(0.886)	727847	1000.00	1084.54
35 Bromochloromethane	128	9.294	9.294	(0.914)	334729	500.000	500.194
36 Chloroform	83	9.337	9.337	(0.918)	1433811	500.000	504.164
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	1209250	500.000	519.074
38 Cyclohexane	56	9.599	9.599	(0.774)	892112	500.000	576.616
39 Carbon tetrachloride	117	9.703	9.703	(0.783)	986262	500.000	520.721
40 Benzene	78	9.873	9.873	(0.796)	2937623	500.000	497.045
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	1210259	500.000	512.779
42 1,4-Dioxane	88	10.684	10.684	(1.050)	168879	10000.0	11241.8
43 Trichloroethene	95	10.428	10.428	(0.841)	744230	500.000	530.210
44 Methylcyclohexane	83	10.593	10.593	(0.854)	926623	500.000	545.007
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	738385	500.000	489.867
46 Bromodichloromethane	83	10.812	10.812	(0.872)	1113154	500.000	523.291
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	1378400	500.000	535.639
48 4-Methyl-2-pentanone	43	11.209	11.208	(0.904)	1575964	1000.00	1046.89
49 Toluene	91	11.410	11.410	(0.920)	3098889	500.000	494.364
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	1351148	500.000	532.544
51 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	672409	500.000	503.246
52 Tetrachloroethene	164	11.824	11.824	(0.954)	502891	500.000	499.804
53 2-Hexanone	43	11.800	11.800	(0.952)	1229486	1000.00	1048.83
54 Dibromochloromethane	129	11.995	11.989	(0.968)	800450	500.000	547.687
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	698629	500.000	525.293
56 Chlorobenzene	112	12.422	12.422	(1.002)	2005272	500.000	491.714
57 Ethylbenzene	91	12.446	12.446	(1.004)	3403845	500.000	516.577
58 m,p-Xylene	106	12.519	12.513	(1.010)	1311075	500.000	529.220
59 o-Xylene	106	12.800	12.800	(1.032)	1263695	500.000	509.021
60 Styrene	104	12.806	12.806	(1.033)	2248686	500.000	519.136
61 Bromoform	173	12.989	12.989	(0.925)	524825	500.000	565.497
62 Isopropylbenzene	105	13.031	13.031	(1.051)	3171923	500.000	535.023
63 1,1,2,2-Tetrachloroethane	83	13.233	13.232	(1.067)	963164	500.000	496.601

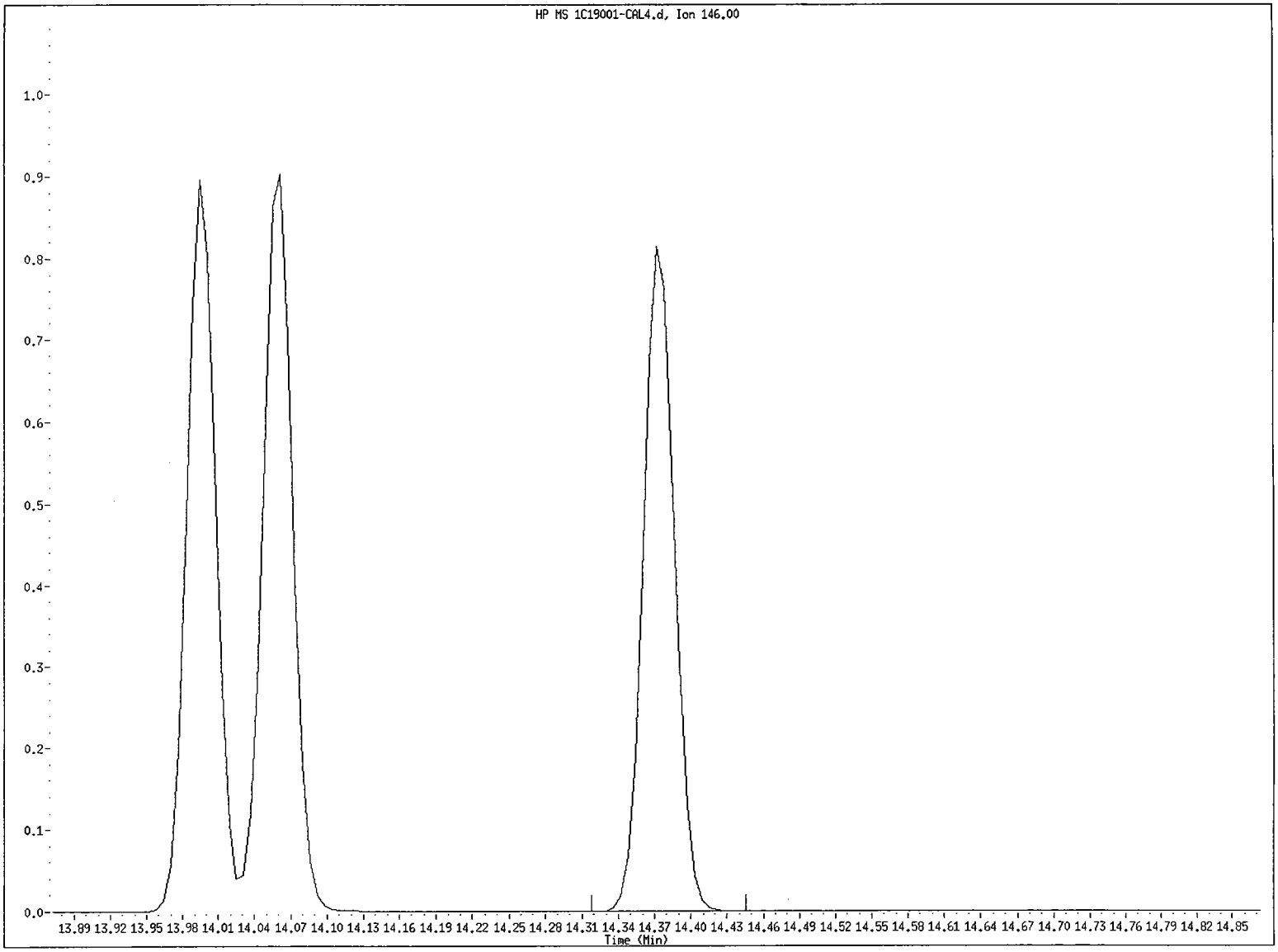
Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.995	13.995	(0.997)	1503388	500.000	522.117
65 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	1554782	500.000	497.195
66 1,2-Dichlorobenzene	146	14.373	14.372	(1.024)	1451604	500.000	498.565(H)
67 1,2-Dibromo-3-chloropropane	75	15.007	15.000	(1.069)	215235	500.000	529.200
68 1,2,4-Trichlorobenzene	180	15.830	15.823	(1.128)	979898	500.000	528.441
69 1,2,3-Trichlorobenzene	180	16.415	16.409	(1.169)	902106	500.000	527.256

QC Flag Legend

H - Operator selected an alternate compound hit.

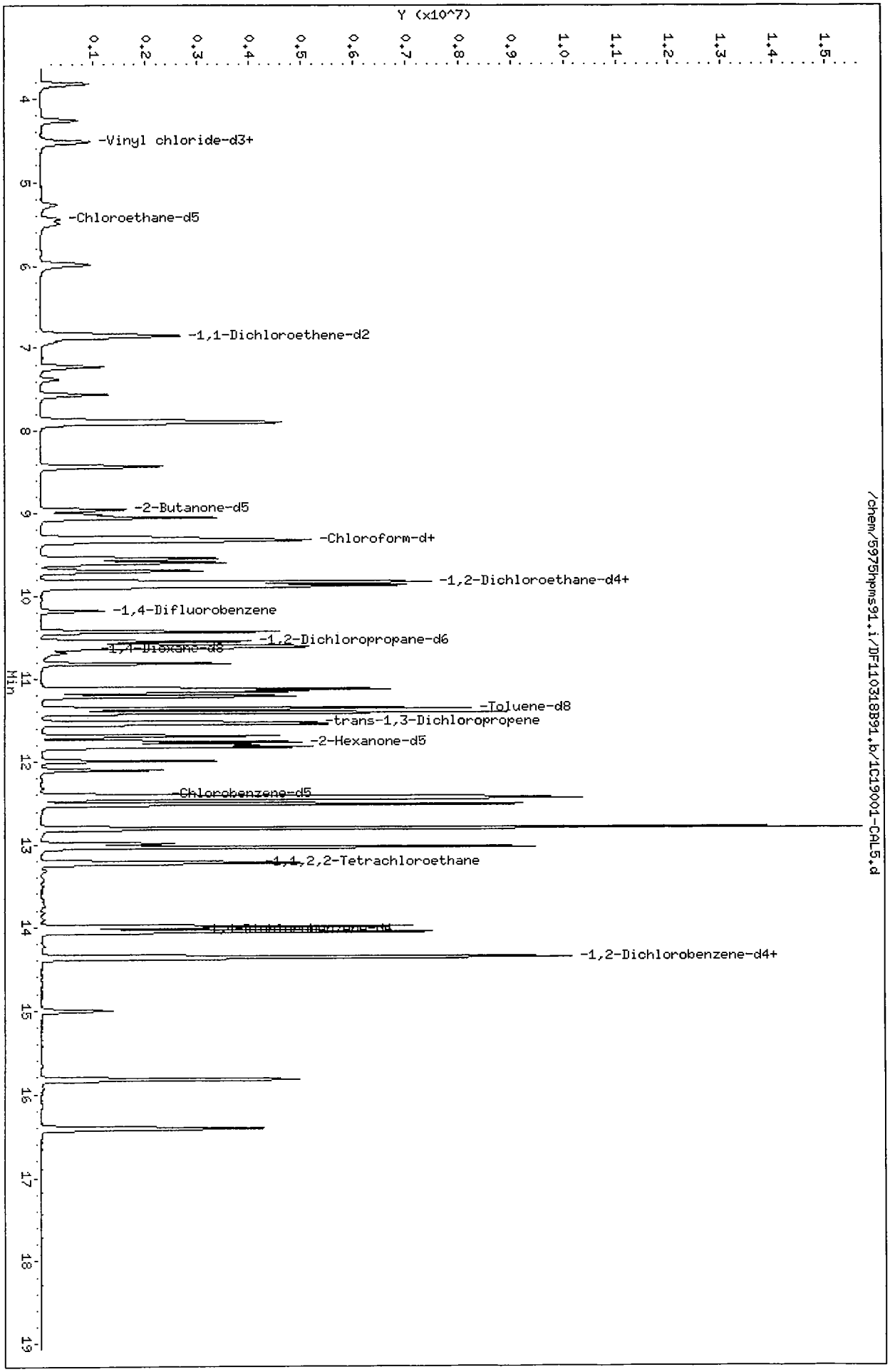
1,2-Dichlorobenzene CAS Number 95-50-1 Area = 1451604 User selected hit



File name: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL4.d
Client ID: VSTD100EA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 04:05
Retention Time: 14.37
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Date : 19-MAR-2011 03:36
Client ID: VSTD200EA
Sample Info: 1C19001-CAL5:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Report Date: 21-Mar-2011 17:35

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Lab Smp Id: 1C19001-CAL5 Client Smp ID: VSTD200EA
Inj Date : 19-MAR-2011 03:36
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CAL5:TD
Misc Info : VSTD200EA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	855877	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	850727	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	466403	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	864828	1000.00	919.738
$ 5 Chloroethane-d5	69	5.435	5.453	(0.534)	591973	1000.00	892.891
$ 6 1,1-Dichloroethene-d2	63	6.850	6.856	(0.673)	1599390	1000.00	956.803
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	2158721	2000.00	2084.07(A)
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	2830857	1000.00	949.125
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	1878024	1000.00	964.528
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	5138641	1000.00	912.600
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	1653026	1000.00	944.030
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	5148068	1000.00	968.616
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	2422525	1000.00	1024.32(A)
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	1576388	2000.00	2045.45(A)
$ 15 1,4-Dioxane-d8	96	10.641	10.642	(1.046)	304716	20000.0	21284.7(A)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	1892344	1000.00	944.878

MHK 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	1965580	1000.00	921.082
18 Dichlorodifluoromethane	85	3.826	3.826	(0.376)	1404786	1000.00	923.406
19 Chloromethane	50	4.259	4.265	(0.419)	1037650	1000.00	981.352
20 Vinyl chloride	62	4.527	4.527	(0.445)	874218	1000.00	937.548
21 Bromomethane	94	5.264	5.295	(0.518)	378379	1000.00	867.343
22 Chloroethane	64	5.496	5.514	(0.540)	463425	1000.00	908.255
23 Trichlorofluoromethane	101	5.990	5.996	(0.589)	1358882	1000.00	952.661
24 1,1-Dichloroethene	96	6.874	6.874	(0.676)	604571	1000.00	960.355
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.837	6.843	(0.672)	564425	1000.00	970.601
26 Acetone	43	6.929	6.929	(0.681)	488159	2000.00	1979.77
27 Carbon disulfide	76	7.228	7.228	(0.711)	2179030	1000.00	982.537
28 Methyl acetate	43	7.374	7.380	(0.725)	521881	1000.00	981.582
29 Methylene chloride	84	7.563	7.563	(0.743)	677819	1000.00	899.739
30 trans-1,2-Dichloroethene	96	7.904	7.910	(0.777)	1298483	1000.00	950.725
31 Methyl tert-butyl ether	73	7.880	7.880	(0.775)	4177267	1000.00	1106.86(A)
32 1,1-Dichloroethane	63	8.428	8.435	(0.829)	2529119	1000.00	977.276
33 cis-1,2-Dichloroethene	96	9.056	9.056	(0.890)	1476040	1000.00	1009.04(A)
34 2-Butanone	43	9.014	9.014	(0.886)	1470301	2000.00	2147.57(A)
35 Bromochloromethane	128	9.294	9.294	(0.914)	621680	1000.00	941.354
36 Chloroform	83	9.337	9.337	(0.918)	2732778	1000.00	967.442
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	2356220	1000.00	996.361
38 Cyclohexane	56	9.599	9.599	(0.774)	1710587	1000.00	1069.33(A)
39 Carbon tetrachloride	117	9.703	9.703	(0.783)	1949963	1000.00	1010.60(A)
40 Benzene	78	9.873	9.873	(0.796)	5369185	1000.00	913.473
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	2331484	1000.00	989.184
42 1,4-Dioxane	88	10.684	10.684	(1.050)	364366	20000.0	23241.1(A)
43 Trichloroethene	95	10.428	10.428	(0.841)	1420827	1000.00	997.009
44 Methylcyclohexane	83	10.593	10.593	(0.854)	1712300	1000.00	992.966
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	1383458	1000.00	921.153
46 Bromodichloromethane	83	10.812	10.812	(0.872)	2179964	1000.00	1006.89(A)
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	2632884	1000.00	1005.58(A)
48 4-Methyl-2-pentanone	43	11.208	11.208	(0.904)	3029086	2000.00	1984.31
49 Toluene	91	11.410	11.410	(0.920)	5854646	1000.00	934.341
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	2617507	1000.00	1012.27(A)
51 1,1,2-Trichloroethane	97	11.696	11.696	(0.943)	1301910	1000.00	966.932
52 Tetrachloroethene	164	11.824	11.824	(0.954)	980600	1000.00	967.095
53 2-Hexanone	43	11.800	11.800	(0.952)	2336080	2000.00	1968.98
54 Dibromochloromethane	129	11.995	11.989	(0.968)	1609214	1000.00	1065.85(A)
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	1391048	1000.00	1023.39(A)
56 Chlorobenzene	112	12.422	12.422	(1.002)	3828613	1000.00	938.265
57 Ethylbenzene	91	12.446	12.446	(1.004)	6524801	1000.00	979.575
58 m,p-Xylene	106	12.513	12.513	(1.009)	2547826	1000.00	1009.75(A)
59 o-Xylene	106	12.800	12.800	(1.032)	2302995	1000.00	929.182
60 Styrene	104	12.806	12.806	(1.033)	4100661	1000.00	944.644
61 Bromoform	173	12.989	12.989	(0.925)	1086630	1000.00	1112.31(A)
62 Isopropylbenzene	105	13.031	13.031	(1.051)	6219176	1000.00	1025.80(A)
63 1,1,2,2-Tetrachloroethane	83	13.232	13.232	(1.067)	1890991	1000.00	967.415

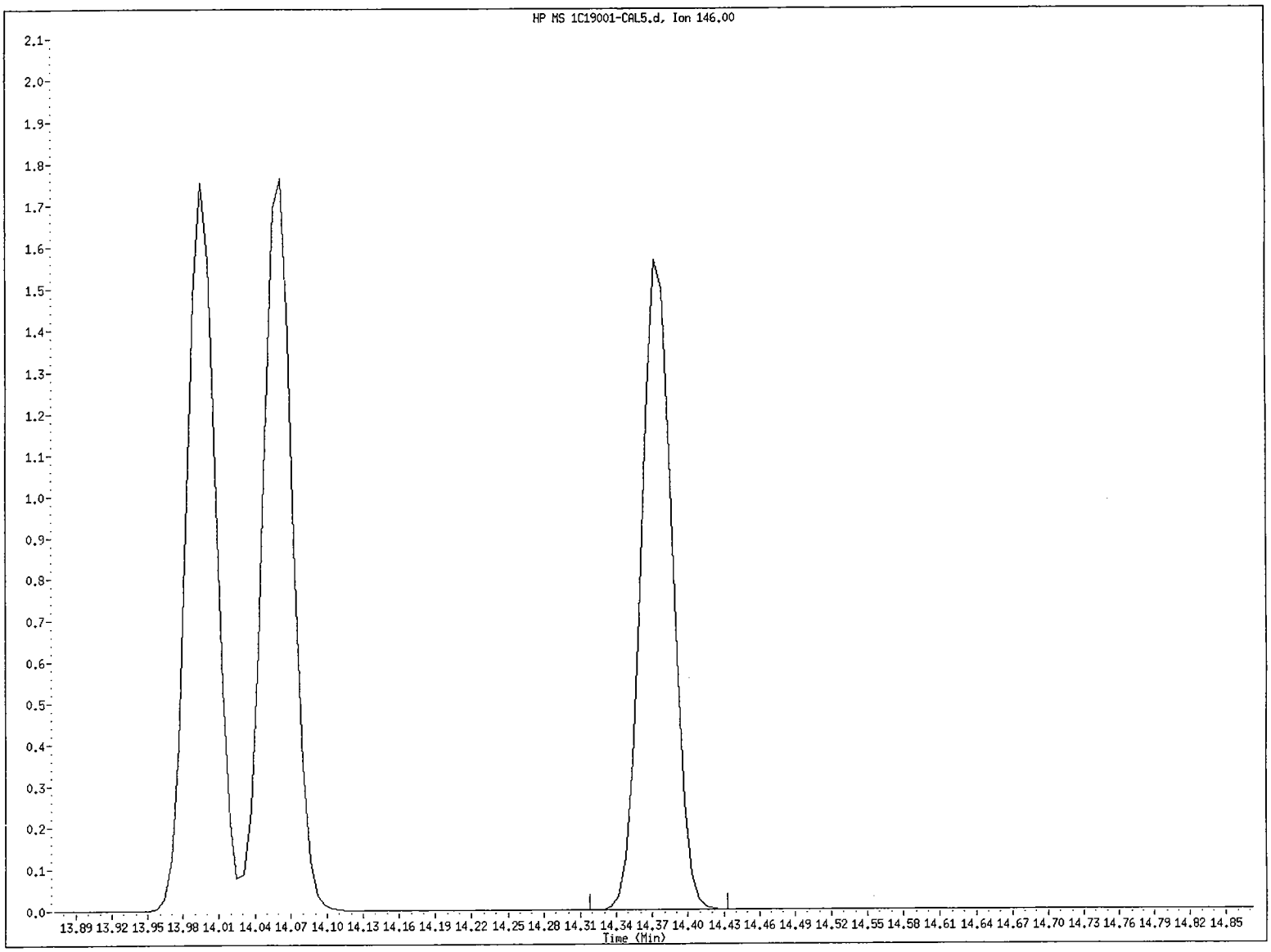
Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Report Date: 21-Mar-2011 17:35

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.994	13.995	(0.997)	2985890	1000.00	1010.85(A)
65 1,4-Dichlorobenzene	146	14.062	14.062	(1.002)	3085579	1000.00	971.375
66 1,2-Dichlorobenzene	146	14.372	14.372	(1.024)	2815456	1000.00	955.666(H)
67 1,2-Dibromo-3-chloropropane	75	15.006	15.000	(1.069)	451227	1000.00	1066.42(A)
68 1,2,4-Trichlorobenzene	180	15.829	15.823	(1.128)	1968837	1000.00	1030.03(A)
69 1,2,3-Trichlorobenzene	180	16.415	16.409	(1.169)	1809839	1000.00	1026.98(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
H - Operator selected an alternate compound hit.

1,2-Dichlorobenzene CAS Number 95-50-1 Area = 2815456 User selected hit



File name: /chem/5975hpms91.i/DF110318B91.b/1C19001-CAL5.d
Client ID: VSTD200EA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 03:36
Retention Time: 14.37
Operator ID: TD

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 9 (5975hpms91)

DATE 3/19/11

INITIAL TIME OF TUNE 0217 SHIFT/S (A)____ (B) X (C)____
TIME TUNE EXPIRES 1417
METHOD: 8260B SOM01.2 (Circle one) or Other: H_2O

PREVENTIVE MAINTENANCE Tune

	FILE RECEIVED	FILE NAME	REPORTED	pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS (ETC.)/ DISPOSITION
1		IC19001-TUNI91	/	–	–	3/19/11	0217	BFBEA	–	2ml	–	B	LCD=SCD
2		-CAL2	/	–	–	/ /	0237	VSTD010EA	–	5mL	–		
3		-CAL1	/	–	–	/ /	0306	005EA	–		–		+8 CCV's
4		-CAL5	/	–	–	/ /	0336	200EA	–		–		
5		-CAL4	/	–	–	/ /	0405	100EA	–		–		
6		-CAL3	/	–	–	/ /	0434	050EA	–		–		
7		1031901-BLK1	/	–	–	/ /	0504	VBLKEA	VARIOUS		–		
8		BLK1R	/	–	–	/ /	0533				–		
9		1103068-01	/	1	A	/ /	0602	GW08-0311	1103068		–		
10		1031901-MS1	/	1	B	/ /	0631	0311MS			–		
11		MSD1	/	1	B	/ /	0700	0311MSD			–		
12		1103068-02	/	1	A	/ /	0729	GW08DP-0311			–		
13		03	/	1	A	/ /	0759	FB01-0311			–		
14		04	/	1	A	/ /	0828	GW07-0311			–		
15		11	/	1	A	/ /	0857	TB01-0311			–		
16		1103088-01	/	1	A	/ /	0926	S-1	1103088		–		
17		02	/	1	A	/ /	0955	S-2			–		
18		03	/	1	A	/ /	1024	S-3			–		
19		04	/	1	A	/ /	1053	S-4			–		
20		05	/	1	A	/ /	1122	S-5			–		
21		06	/	1	A	/ /	1152	S-6			–		
22		07	/	1	A	/ /	1221	TRIPBLANK			–		
23		IC19001-CCV1	/	–	–	/ /	1250	VSTD050EB	–		–		
24		-CCV1R	/	–	–	/ /	1319		–		–		

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: 67862
Internal Standard Lot No.: 67885

Calibration Group Code / Lot No.: 50256
Surrogate Lot No.: 67877

Date

b. Continuing Calibration Data
(Form VII VOA-1, VOA-2, VOA-3, VOA- SIM)

If more than one instrument is used, forms shall be arranged in order by instrument. If multiple continuing calibration standards from the same instrument are used, they shall be in chronological order.

(1) Reconstructed Ion Chromatograms and quantitation reports for all continuing (12-hour) calibrations. Spectra not required.

(2) EICPs displaying each manual integration.

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 1319

Lab File ID: 1C19001-CCV1R91.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EB Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.444	0.417	0.010	-6.2	40.0
Vinyl chloride	0.272	0.269	0.100	-1.1	25.0
Chloroethane	0.149	0.148	0.010	-0.6	40.0
1,1-Dichloroethene	0.184	0.184	0.100	-0.1	25.0
Methylene chloride	0.220	0.208	0.010	-5.3	40.0
trans-1,2-Dichloroethene	0.399	0.386	0.010	-3.2	40.0
1,1-Dichloroethane	0.756	0.714	0.200	-5.5	25.0
cis-1,2-Dichloroethene	0.427	0.426	0.010	-0.3	40.0
1,1,1-Trichloroethane	0.695	0.660	0.100	-5.1	25.0
Benzene	1.727	1.670	0.400	-3.3	25.0
1,2-Dichloroethane	0.688	0.705	0.100	2.3	25.0
Trichloroethene	0.419	0.403	0.300	-3.9	25.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 1319

Lab File ID: 1C19001-CCV1R91.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EB Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.441	0.430	0.010	-2.6	40.0
Tetrachloroethene	0.298	0.308	0.100	3.2	25.0
Chlorobenzene	1.199	1.232	0.500	2.8	25.0
1,4-Dichlorobenzene	1.703	1.760	0.500	3.4	25.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 1319

Lab File ID: 1C19001-CCV1R91.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EB Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

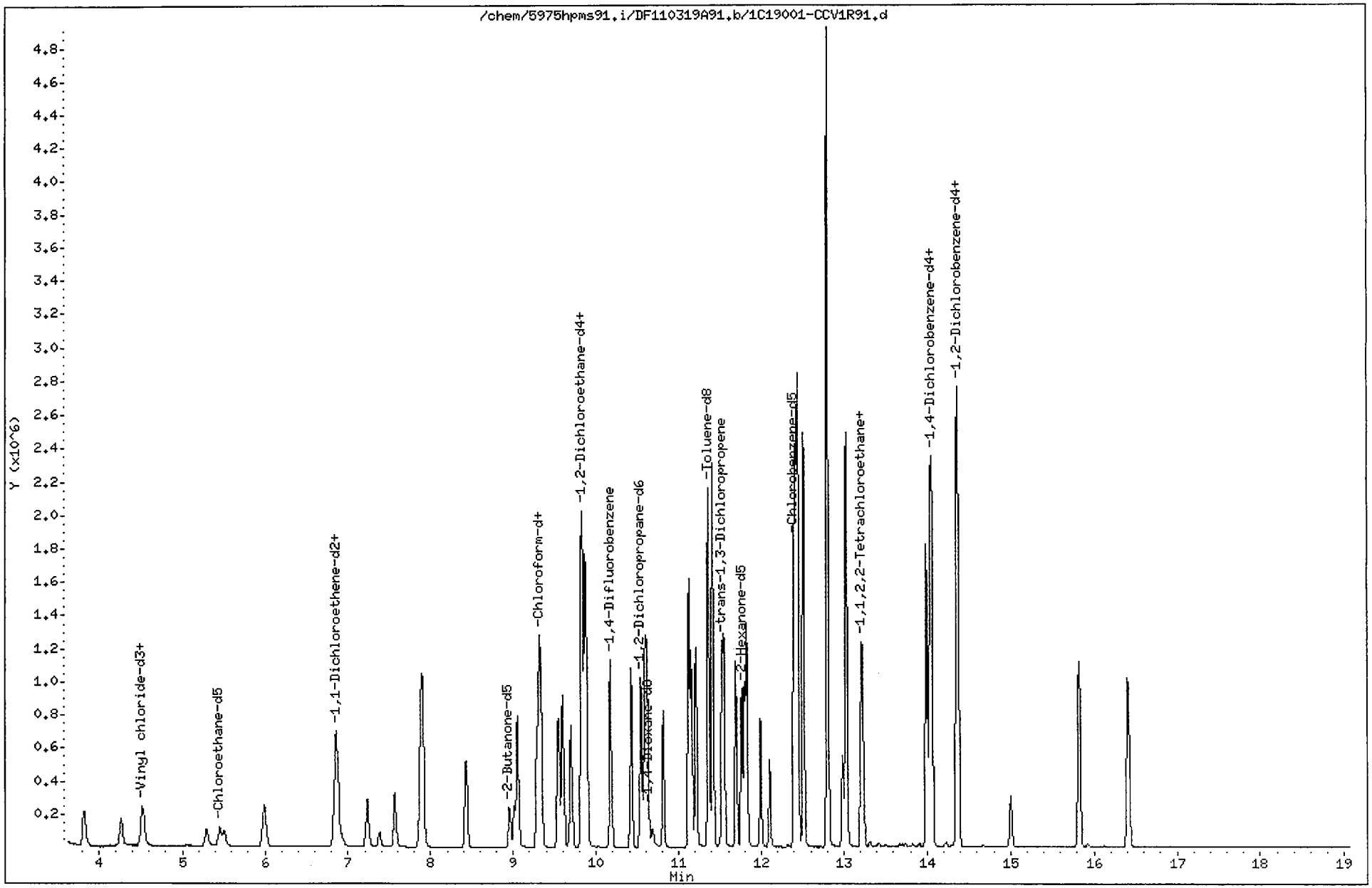
Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.275	0.286	0.010	4.3	25.0
Chloroethane-d5	0.194	0.208	0.010	7.5	40.0
1,1-Dichloroethene-d2	0.488	0.510	0.010	4.5	25.0
2-Butanone-d5	0.303	0.188	0.010	-38.0	40.0
Chloroform-d	0.871	0.896	0.010	2.9	25.0
1,2-Dichloroethane-d4	0.569	0.592	0.010	4.1	25.0
Benzene-d6	1.655	1.698	0.010	2.6	25.0
1,2-Dichloropropane-d6	0.515	0.515	0.010	0.1	40.0
Toluene-d8	1.562	1.615	0.010	3.4	25.0
trans-1,3-Dichloropropene-d4	0.695	0.687	0.010	-1.2	25.0
2-Hexanone-d5	0.226	0.176	0.010	-22.5	40.0
1,4-Dioxane-d8	0.004	0.004	0.005	-5.5	50.0
1,1,2,2-Tetrachloroethane-d2	0.589	0.592	0.010	0.5	25.0
1,2-Dichlorobenzene-d4	1.144	1.155	0.010	1.0	25.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Date : 19-MAR-2011 13:19
Client ID: VSTD050EB
Sample Info: 1C19001-CCV1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Report Date: 21-Mar-2011 18:36

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Lab Smp Id: 1C19001-CCV1 Client Smp ID: VSTD050EB
Inj Date : 19-MAR-2011 13:19
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CCV1:TD
Misc Info : VSTD050EB
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 24 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	790858	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	803985	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	442826	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	226563	250.000	260.757
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	164656	250.000	268.774
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	403585	250.000	261.286
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	296857	500.000	310.153
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	708653	250.000	257.130
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	468256	250.000	260.261
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1365127	250.000	256.536
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	414196	250.000	250.296
$ 12 Toluene-d8	98	11.361	11.355	(0.916)	1298707	250.000	258.560
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	552274	250.000	247.095
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	282410	500.000	387.747
$ 15 1,4-Dioxane-d8	96	10.642	10.635	(1.046)	62497	5000.00	4724.37
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	475751	250.000	251.361

pwd 3.21.11

Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	511626	250.000	252.516
18 Dichlorodifluoromethane	85	3.826	3.832	(0.376)	329716	250.000	234.550
19 Chloromethane	50	4.265	4.265	(0.419)	240582	250.000	246.235
20 Vinyl chloride	62	4.527	4.527	(0.445)	212991	250.000	247.200
21 Bromomethane	94	5.295	5.295	(0.521)	104457	250.000	259.128
22 Chloroethane	64	5.514	5.508	(0.542)	117131	250.000	248.435
23 Trichlorofluoromethane	101	5.996	5.996	(0.589)	324936	250.000	246.529
24 1,1-Dichloroethene	96	6.874	6.874	(0.676)	145255	250.000	249.706
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.843	6.843	(0.673)	143280	250.000	266.645
26 Acetone	43	6.929	6.923	(0.681)	109467	500.000	480.452
27 Carbon disulfide	76	7.228	7.227	(0.711)	502104	250.000	245.015
28 Methyl acetate	43	7.380	7.374	(0.725)	125894	250.000	256.255
29 Methylene chloride	84	7.563	7.563	(0.743)	164752	250.000	236.672
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.778)	305522	250.000	242.088
31 Methyl tert-butyl ether	73	7.880	7.880	(0.775)	888012	250.000	254.644
32 1,1-Dichloroethane	63	8.435	8.428	(0.829)	564801	250.000	236.187
33 cis-1,2-Dichloroethene	96	9.056	9.056	(0.890)	336874	250.000	249.225
34 2-Butanone	43	9.014	9.014	(0.886)	305778	500.000	483.347
35 Bromochloromethane	128	9.294	9.294	(0.914)	155485	250.000	254.793
36 Chloroform	83	9.337	9.337	(0.918)	651245	250.000	249.504
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	530269	250.000	237.268
38 Cyclohexane	56	9.599	9.599	(0.774)	407551	250.000	269.582
39 Carbon tetrachloride	117	9.703	9.697	(0.783)	456057	250.000	250.100
40 Benzene	78	9.873	9.873	(0.796)	1342376	250.000	241.659
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	557172	250.000	255.827
42 1,4-Dioxane	88	10.684	10.684	(1.050)	73750	5000.00	5090.89
43 Trichloroethene	95	10.428	10.428	(0.841)	323637	250.000	240.303
44 Methylcyclohexane	83	10.593	10.593	(0.854)	403542	250.000	247.620
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	345700	250.000	243.561
46 Bromodichloromethane	83	10.812	10.812	(0.872)	493342	250.000	241.114
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	600437	250.000	242.658
48 4-Methyl-2-pentanone	43	11.208	11.208	(0.904)	722365	500.000	500.722
49 Toluene	91	11.410	11.410	(0.920)	1484022	250.000	250.604
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	594449	250.000	243.258
51 1,1,2-Trichloroethane	97	11.696	11.690	(0.943)	310702	250.000	244.175
52 Tetrachloroethene	164	11.824	11.824	(0.954)	247333	250.000	258.108
53 2-Hexanone	43	11.800	11.794	(0.952)	560252	500.000	499.666
54 Dibromochloromethane	129	11.989	11.989	(0.967)	362219	250.000	253.861
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	316106	250.000	246.079
56 Chlorobenzene	112	12.422	12.422	(1.002)	990787	250.000	256.925
57 Ethylbenzene	91	12.446	12.446	(1.004)	1708171	250.000	271.359
58 m,p-Xylene	106	12.513	12.513	(1.009)	646232	250.000	271.002
59 o-Xylene	106	12.800	12.800	(1.032)	665034	250.000	283.919
60 Styrene	104	12.806	12.806	(1.033)	1144934	250.000	279.085
61 Bromoform	173	12.989	12.989	(0.925)	235167	250.000	253.541
62 Isopropylbenzene	105	13.031	13.031	(1.051)	1566785	250.000	273.454
63 1,1,2,2-Tetrachloroethane	83	13.232	13.232	(1.067)	464958	250.000	251.698

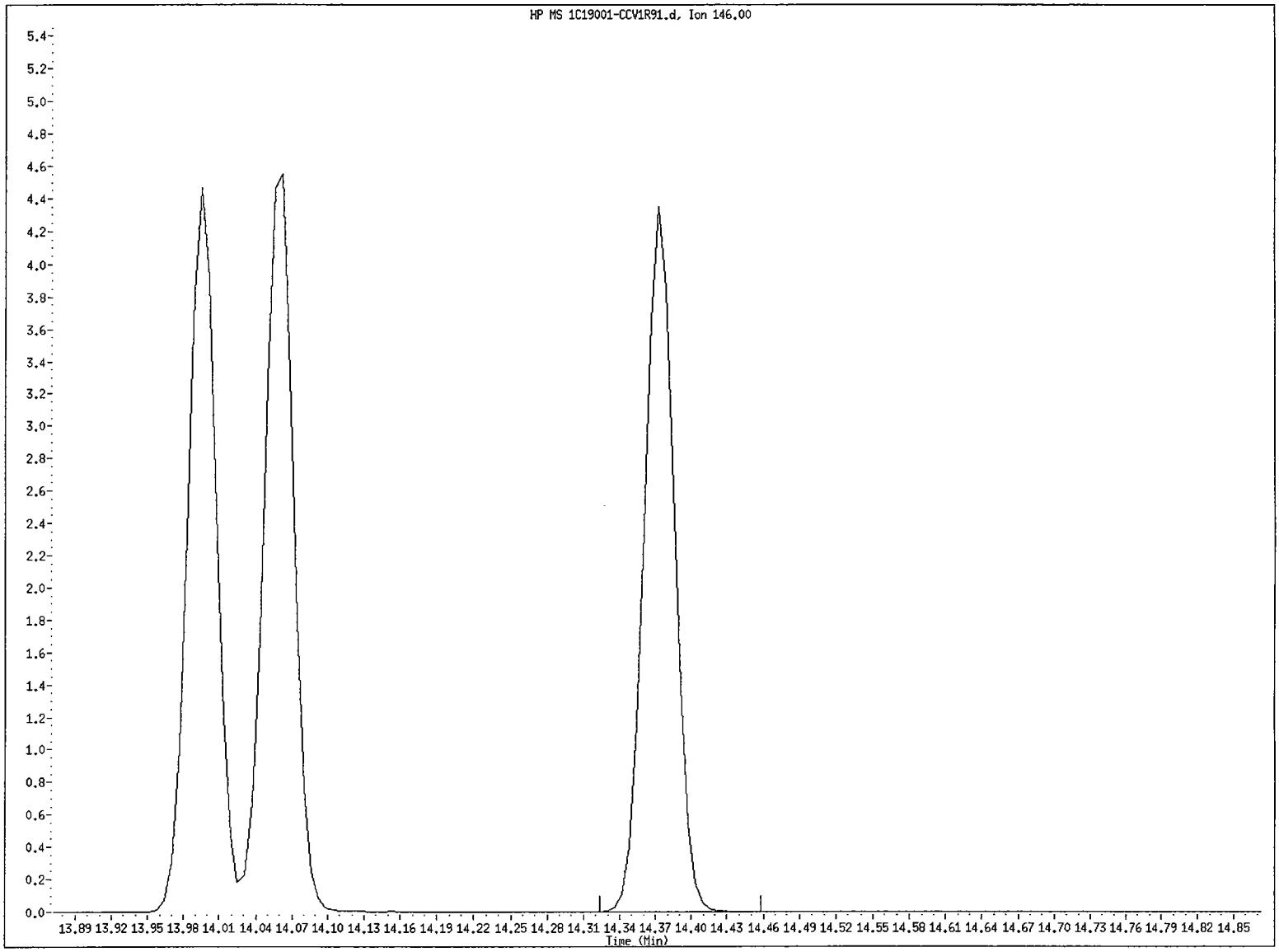
Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.995	13.994	(0.997)	740738	250.000	264.123
65 1,4-Dichlorobenzene	146	14.062	14.055	(1.002)	779583	250.000	258.488
66 1,2-Dichlorobenzene	146	14.372	14.372	(1.024)	758248	250.000	271.080(H)
67 1,2-Dibromo-3-chloropropane	75	15.000	15.000	(1.069)	99797	250.000	248.415
68 1,2,4-Trichlorobenzene	180	15.823	15.829	(1.127)	425769	250.000	234.607
69 1,2,3-Trichlorobenzene	180	16.409	16.415	(1.169)	412870	250.000	246.754

QC Flag Legend

H - Operator selected an alternate compound hit.

1,2-Dichlorobenzene CAS Number 95-50-1 Area = 758248 User selected hit



File name: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV1R91.d
Client ID: VSTD050EB
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 13:19
Retention Time: 14.37
Operator ID: TD

COMPUCHEM a Division of Liberty Analytical Corp
GC/MS VOLATILE RUN LOG
COMPUCHEM LOGBOOK 23 BB 9 (5975hpms91)

DATE 3/19/11

INITIAL TIME OF TUNE 1319 SHIFT/S (A) ✓ (B)____ (C)____
TIME TUNE EXPIRES 0119
METHOD: 8260B 8OM01.2 (Circle one) or Other: H_2O

PREVENTIVE MAINTENANCE None

		FILE NAME		pH	Vial	DATE	TIME	Client ID	SDG#	INJ. VOL.*	DF+	CHEMIST	COMMENTS (ETC.)/ DISPOSITION
1		1C19001-CCVIR91		–	–	3/19/11	1319	VSTD050EB	–	5mL	–	B	LIP = SCP
2		1031902-BLK1		–	–	/ /	1348	VBLKEB	VARIOUS		–		
3		↓ BLK1R		–	–	/ /	1417	↓	↓		–		
4		1103070-01		1	A	/ /	1446	B94M0	B94M0		–		
5		02		1	A	/ /	1615	M1			–		
6		03		1	A	/ /	1545	M2			–		
7		04		1	A	/ /	1614	M3			–		
8		05		1	A	/ /	1643	M4			–		
9		06		1	A	/ /	1712	M5			–		
10		07		1	A	/ /	1741	M6			–		
11		08		1	A	/ /	1810	M7			–		
12		09		1	A	/ /	1839	M8			–		
13		10		1	A	/ /	1908	P2			–		
14		12		1	A	/ /	1937	N8			–		
15		1103068-12		1	A	/ /	2006	VHBLKXP	VARIOUS		–		
16		1C19001-CCV2		–	–	/ /	2035	VSTD050EC	–		–		
17						/ /							
18						/ /							
19						/ /							
20						/ /							
21						/ /							
22						/ /							
23						/ /						B	3-19-11
24						/ /							

*On-column sample aliquot +Not applicable to soil matrix

The presence of the Chemist's/Analyst's employee ID number, or signature, on this run log attests that strict compliance with the method's SOP has occurred. Any SOP deviations require documentation by the responsible chemist/analyst together with the chemist's/analyst's initials and the initials of the lab supervisor and a QA department representative, signifying approval of the deviation.

Tune (ID #7008) Lot No.: —
Internal Standard Lot No.: 67885

Calibration Group Code / Lot No.: SO256
Surrogate Lot No.: 67877

REVIEWED BY

Date

7A - FORM VII VOA-1
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 2035

Lab File ID: 1C19001-CCV291.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EC Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.444	0.449	0.010	1.1	50.0
Vinyl chloride	0.272	0.297	0.010	9.0	50.0
Chloroethane	0.149	0.166	0.010	11.4	50.0
1,1-Dichloroethene	0.184	0.200	0.010	9.0	50.0
Methylene chloride	0.220	0.232	0.010	5.6	50.0
trans-1,2-Dichloroethene	0.399	0.411	0.010	2.9	50.0
1,1-Dichloroethane	0.756	0.757	0.010	0.1	50.0
cis-1,2-Dichloroethene	0.427	0.457	0.010	7.1	50.0
1,1,1-Trichloroethane	0.695	0.686	0.010	-1.3	50.0
Benzene	1.727	1.735	0.010	0.5	50.0
1,2-Dichloroethane	0.688	0.748	0.010	8.6	50.0
Trichloroethene	0.419	0.412	0.010	-1.6	50.0

Report 1,4-Dioxane for Low-Medium VOA analysis only

7B - FORM VII VOA-2
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: _____ SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 2035

Lab File ID: 1C19001-CCV291.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EC Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
1,2-Dichloropropane	0.441	0.444	0.010	0.5	50.0
Tetrachloroethene	0.298	0.311	0.010	4.3	50.0
Chlorobenzene	1.199	1.232	0.010	2.7	50.0
1,4-Dichlorobenzene	1.703	1.645	0.010	-3.4	50.0

7C - FORM VII VOA-3
VOLATILE CONTINUING CALIBRATION DATA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Instrument ID: 5975hpms91 Calibration Date: 03/19/2011 Time: 2035

Lab File ID: 1C19001-CCV291.d Init. Calib. Date(s): 03/19/2011 03/19/2011

EPA Sample No.(VSTD#####): VSTD050EC Init. Calib. Time(s): 0237 0434

Heated Purge: (Y/N) N GC Column: SPB-624 ID: 0.32 (mm) Length: 60 (m)

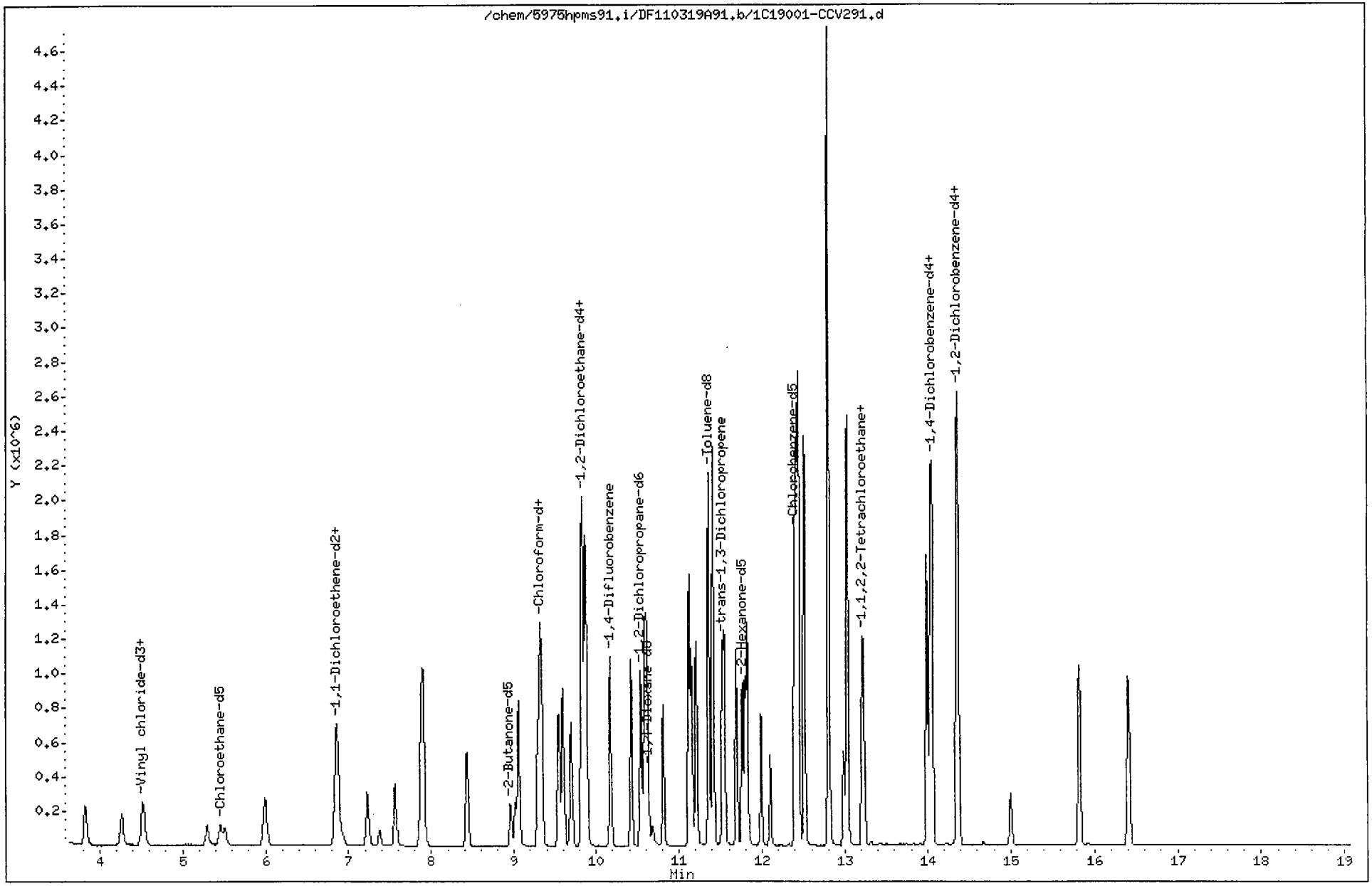
Purge Volume: 5.0 (mL)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Vinyl chloride-d3	0.275	0.299	0.010	8.7	50.0
Chloroethane-d5	0.194	0.218	0.010	12.5	50.0
1,1-Dichloroethene-d2	0.488	0.545	0.010	11.6	50.0
2-Butanone-d5	0.303	0.192	0.010	-36.5	50.0
Chloroform-d	0.871	0.939	0.010	7.8	50.0
1,2-Dichloroethane-d4	0.569	0.620	0.010	9.0	50.0
Benzene-d6	1.655	1.703	0.010	2.9	50.0
1,2-Dichloropropane-d6	0.515	0.517	0.010	0.5	50.0
Toluene-d8	1.562	1.625	0.010	4.0	50.0
trans-1,3-Dichloropropene-d4	0.695	0.667	0.010	-4.1	50.0
2-Hexanone-d5	0.226	0.177	0.010	-22.0	50.0
1,4-Dioxane-d8	0.004	0.004	0.0050	1.3	50.0
1,1,2,2-Tetrachloroethane-d2	0.589	0.599	0.010	1.8	50.0
1,2-Dichlorobenzene-d4	1.144	1.113	0.010	-2.7	50.0

Report 1,4-Dioxane-d8 for Low-Medium VOA analysis only

Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV291.d
Date : 19-MAR-2011 20:35
Client ID: VSTD050EC
Sample Info: 1C19001-CCV2:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV291.d
Report Date: 21-Mar-2011 18:36

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV291.d
Lab Smp Id: 1C19001-CCV2 Client Smp ID: VSTD050EC
Inj Date : 19-MAR-2011 20:35
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1C19001-CCV2:TD
Misc Info : VSTD050EC
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 39 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	749838	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	782298	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	440014	250.000	
$ 4 Vinyl chloride-d3	65	4.515	4.515	(0.444)	223849	250.000	271.728
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	163314	250.000	281.167
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	408517	250.000	278.947
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	288333	500.000	317.727
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	704388	250.000	269.564
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	464636	250.000	272.377
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1332514	250.000	257.349
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	404409	250.000	251.157
$ 12 Toluene-d8	98	11.355	11.355	(0.916)	1271182	250.000	260.096
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	521446	250.000	239.770
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	276375	500.000	389.980
$ 15 1,4-Dioxane-d8	96	10.635	10.635	(1.046)	63527	5000.00	5064.93
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	468471	250.000	254.376

pmd 3-21-11

Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV291.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	489737	250.000	243.257
18 Dichlorodifluoromethane	85	3.832	3.832	(0.377)	336880	250.000	252.756
19 Chloromethane	50	4.265	4.265	(0.419)	251507	250.000	271.499
20 Vinyl chloride	62	4.527	4.527	(0.445)	222582	250.000	272.463
21 Bromomethane	94	5.295	5.295	(0.521)	110653	250.000	289.515
22 Chloroethane	64	5.508	5.508	(0.541)	124447	250.000	278.392
23 Trichlorofluoromethane	101	5.996	5.996	(0.589)	348721	250.000	279.048
24 1,1-Dichloroethene	96	6.874	6.874	(0.676)	150307	250.000	272.526
25 1,1,2-Trichloro-1,2,2-trifluo	101	6.843	6.843	(0.673)	147746	250.000	289.997
26 Acetone	43	6.923	6.923	(0.681)	107910	500.000	499.528
27 Carbon disulfide	76	7.227	7.227	(0.711)	529106	250.000	272.316
28 Methyl acetate	43	7.374	7.374	(0.725)	124539	250.000	267.365
29 Methylene chloride	84	7.563	7.563	(0.743)	174272	250.000	264.043
30 trans-1,2-Dichloroethene	96	7.910	7.910	(0.778)	307924	250.000	257.339
31 Methyl tert-butyl ether	73	7.880	7.880	(0.775)	845134	250.000	255.606
32 1,1-Dichloroethane	63	8.428	8.428	(0.829)	567462	250.000	250.282
33 cis-1,2-Dichloroethene	96	9.056	9.056	(0.890)	343004	250.000	267.642
34 2-Butanone	43	9.014	9.014	(0.886)	296277	500.000	493.949
35 Bromochloromethane	128	9.294	9.294	(0.914)	155304	250.000	268.419
36 Chloroform	83	9.337	9.337	(0.918)	660555	250.000	266.915
37 1,1,1-Trichloroethane	97	9.550	9.550	(0.770)	536424	250.000	246.676
38 Cyclohexane	56	9.599	9.599	(0.774)	394238	250.000	268.005
39 Carbon tetrachloride	117	9.697	9.697	(0.782)	454673	250.000	256.254
40 Benzene	78	9.873	9.873	(0.796)	1357443	250.000	251.146
41 1,2-Dichloroethane	62	9.892	9.892	(0.972)	560590	250.000	271.478
42 1,4-Dioxane	88	10.684	10.684	(1.050)	71572	5000.00	5210.81
43 Trichloroethene	95	10.428	10.428	(0.841)	322389	250.000	246.012
44 Methylcyclohexane	83	10.593	10.593	(0.854)	447138	250.000	281.977
45 1,2-Dichloropropane	63	10.617	10.617	(0.856)	347128	250.000	251.347
46 Bromodichloromethane	83	10.812	10.812	(0.872)	495361	250.000	248.812
47 cis-1,3-Dichloropropene	75	11.154	11.154	(0.900)	586726	250.000	243.690
48 4-Methyl-2-pentanone	43	11.208	11.208	(0.904)	703151	500.000	500.915
49 Toluene	91	11.410	11.410	(0.920)	1456709	250.000	252.811
50 trans-1,3-Dichloropropene	75	11.550	11.550	(0.932)	577137	250.000	242.721
51 1,1,2-Trichloroethane	97	11.690	11.690	(0.943)	316122	250.000	255.322
52 Tetrachloroethene	164	11.824	11.824	(0.954)	243091	250.000	260.714
53 2-Hexanone	43	11.794	11.794	(0.951)	549167	500.000	503.358
54 Dibromochloromethane	129	11.989	11.989	(0.967)	360146	250.000	259.405
55 1,2-Dibromoethane	107	12.105	12.105	(0.976)	312070	250.000	249.672
56 Chlorobenzene	112	12.422	12.422	(1.002)	963697	250.000	256.828
57 Ethylbenzene	91	12.446	12.446	(1.004)	1629560	250.000	266.047
58 m,p-Xylene	106	12.513	12.513	(1.009)	613736	250.000	264.510
59 o-Xylene	106	12.800	12.800	(1.032)	634886	250.000	278.562
60 Styrene	104	12.806	12.806	(1.033)	1085678	250.000	271.978
61 Bromoform	173	12.989	12.989	(0.925)	231410	250.000	251.085
62 Isopropylbenzene	105	13.031	13.031	(1.051)	1550431	250.000	278.101
63 1,1,2,2-Tetrachloroethane	83	13.232	13.232	(1.067)	451019	250.000	250.921

Data File: /chem/5975hpms91.i/DF110319A91.b/1C19001-CCV291.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ng)	AMOUNTS ON-COL (ng)
64 1,3-Dichlorobenzene	146	13.994	13.994	(0.997)	678385	250.000	243.436
65 1,4-Dichlorobenzene	146	14.055	14.055	(1.001)	723918	250.000	241.565
66 1,2-Dichlorobenzene	146	14.372	14.372	(1.024)	713048	250.000	256.549
67 1,2-Dibromo-3-chloropropane	75	15.000	15.000	(1.069)	96135	250.000	240.829
68 1,2,4-Trichlorobenzene	180	15.829	15.829	(1.128)	393563	250.000	218.247
69 1,2,3-Trichlorobenzene	180	16.415	16.415	(1.169)	392378	250.000	236.005

a. BFB Data

BFB shall be arranged in chronological order, by instrument. For each 12 hour period, include:

- Bar Graph spectrum and Tabulated Relative Abundances

- Mass listing

- Reconstructed total ion chromatogram

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-TUN191.d

Date : 19-MAR-2011 02:17

Client ID: BFBEA

Instrument: 5975hpms91.i

Sample Info: 1C19001-TUN1:TD

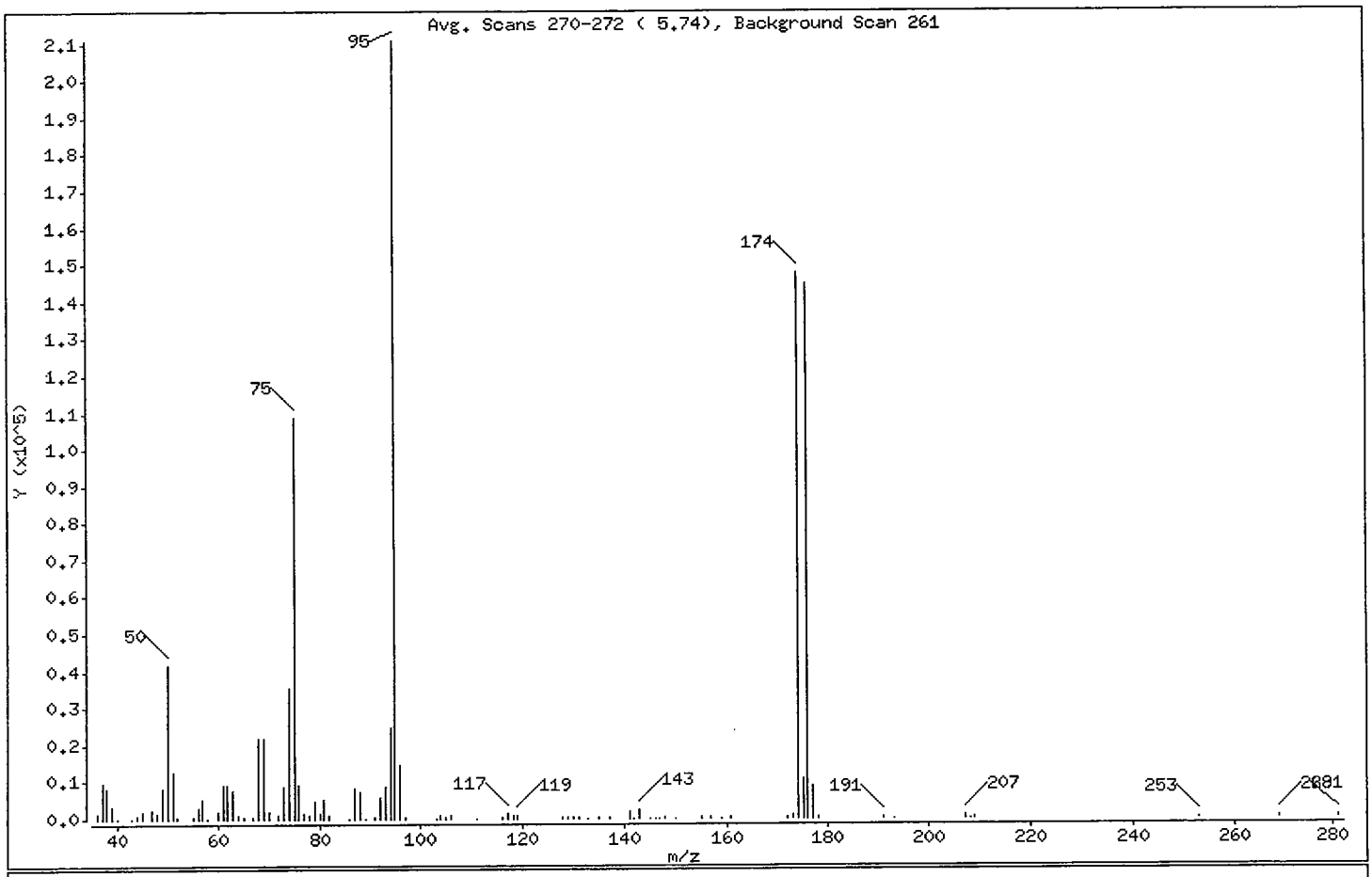
Volume Injected (uL): 2.0

Operator: TD

Column phase: SPB-624

Column diameter: 0.32

1 bromofluorobenzene



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.74
75	30.00 - 80.00% of mass 95	51.67
96	5.00 - 9.00% of mass 95	6.82
173	Less than 2.00% of mass 174	0.57 (0.81)
174	50.00 - 120.00% of mass 95	70.08
175	5.00 - 9.00% of mass 174	5.08 (7.25)
176	95.00 - 101.00% of mass 174	68.74 (98.08)
177	5.00 - 9.00% of mass 176	4.16 (6.05)

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-TUN191.d

Date : 19-MAR-2011 02:17

Client ID: BFBEA | Instrument: 5975hpms91.i

Sample Info: 1C19001-TUN1:TD

Volume Injected (uL): 2.0 | Operator: TD

Column phase: SPB-624 | Column diameter: 0.32

Data File: 1C19001-TUN191.d

Spectrum: Avg. Scans 270-272 (5.74), Background Scan 261

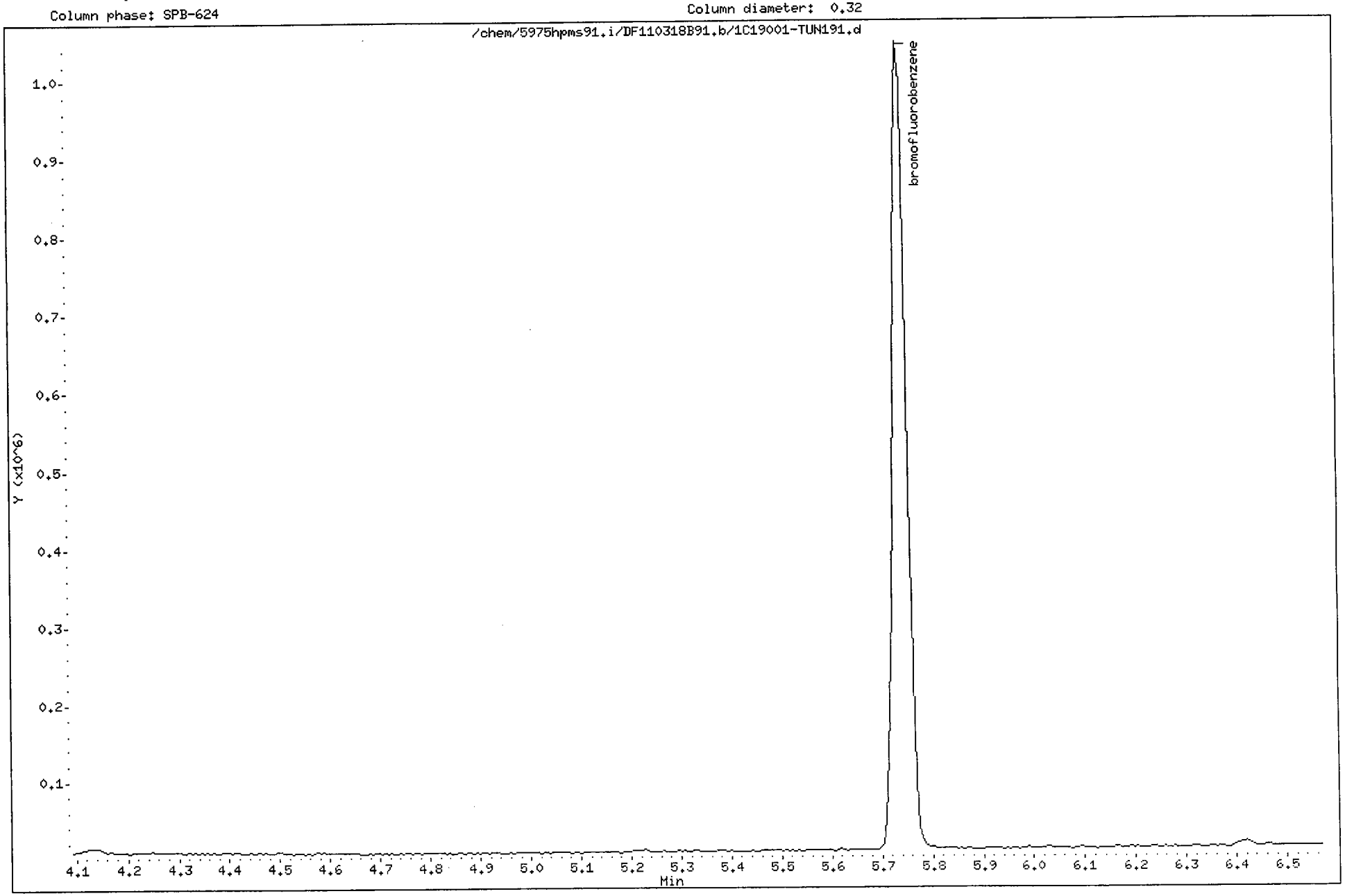
Location of Maximum: 95.00

Number of points: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1685	67.00	575	96.00	14374	148.00	395
37.00	9478	68.00	21616	97.00	490	150.00	88
38.00	8434	69.00	22016	103.00	113	155.00	455
39.00	3414	70.00	1795	104.00	1011	157.00	270
40.00	98	72.00	916	105.00	262	159.00	199
43.00	103	73.00	8891	106.00	850	161.00	300
44.00	1207	74.00	35632	111.00	104	172.00	671
45.00	1883	75.00	108952	116.00	695	173.00	1201
47.00	2499	76.00	9079	117.00	1373	174.00	147712
48.00	1263	77.00	1429	118.00	736	175.00	10716
49.00	8035	78.00	895	119.00	1205	176.00	144896
50.00	41616	79.00	4908	128.00	649	177.00	8771
51.00	12582	80.00	1372	129.00	447	178.00	309
52.00	620	81.00	5289	130.00	607	191.00	299
55.00	570	82.00	1099	131.00	304	193.00	206
56.00	2960	86.00	107	133.00	35	207.00	1024
57.00	5287	87.00	8302	135.00	398	208.00	208
58.00	92	88.00	7485	137.00	329	209.00	249
60.00	1774	89.00	119	141.00	2115	253.00	212
61.00	9032	91.00	715	142.00	212	269.00	373
62.00	8988	92.00	5835	143.00	2241	281.00	373
63.00	7648	93.00	8807	145.00	200		
64.00	807	94.00	24552	146.00	204		
65.00	477	95.00	210816	147.00	211		

Data File: /chem/5975hpms91.i/DF110318B91.b/1C19001-TUN191.d
Date : 19-MAR-2011 02:17
Client ID: BFBEA
Sample Info: 1C19001-TUN1:TD
Volume Injected (uL): 2.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



b. Blank Data

Arranged by type of blank (method, storage, instrument) in chronological order, by instrument. Shall include:

- Tabulated Results (Form I, VOA-1, VOA-2, VOA-SIM)

- Tentatively Identified Compounds (Form I VOA-TIC)

- Reconstructed Ion Chromatogram and quantitation report.

- Target compound spectra with lab-generated standard spectra.

- Quantitation/Calculation of TIC concentrations.

- GC/MS library search spectra for TICs.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1031901-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1031901-BLK1R91.d

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKEA

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1031901-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1031901-BLK1R91.d

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
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18					
19					
20					
21					
22					
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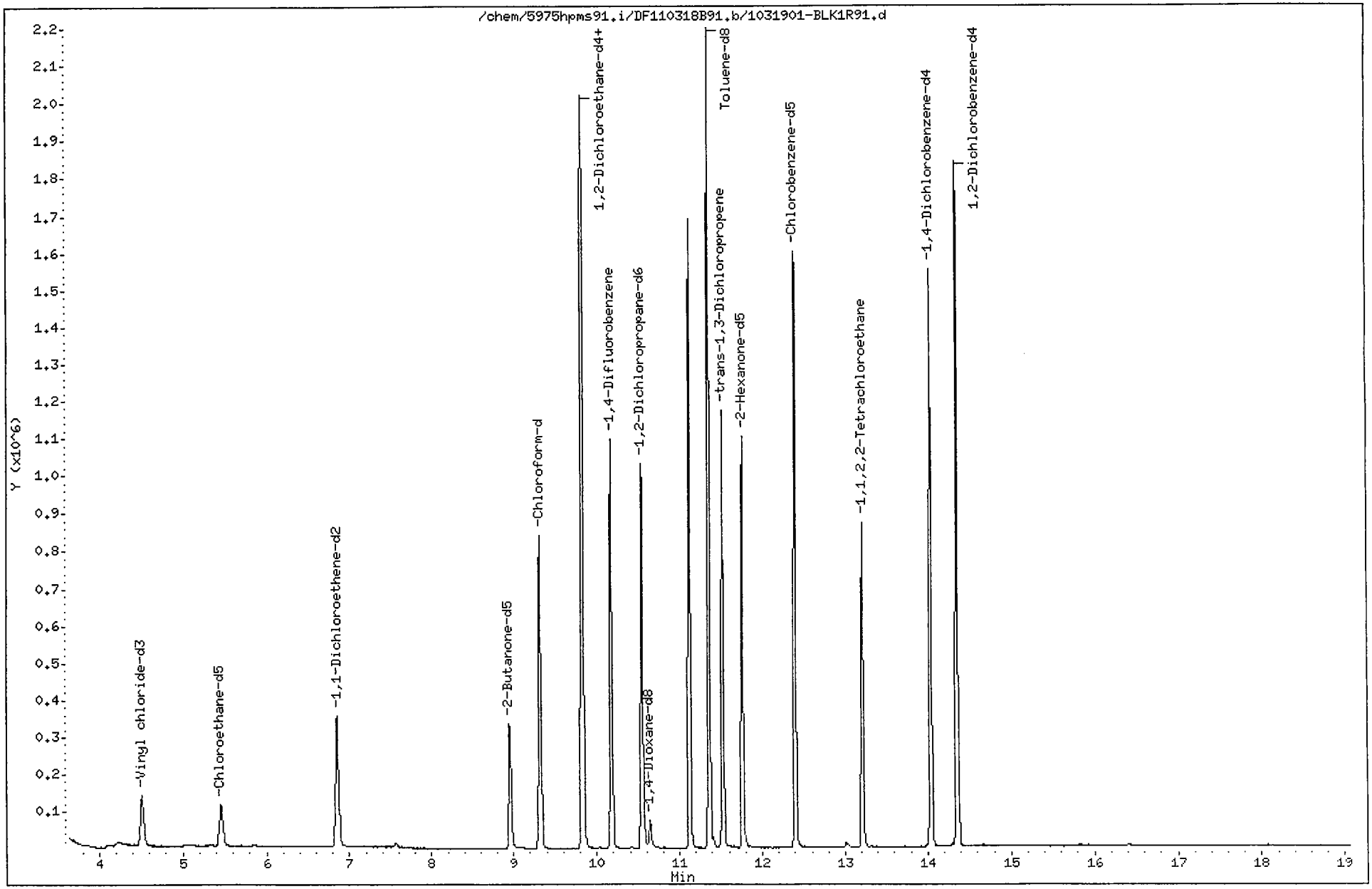
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Date : 19-MAR-2011 05:33
Client ID: VBLKEA
Sample Info: 1031901-BLK1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Report Date: 21-Mar-2011 17:38

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Lab Smp Id: 1031901-BLK1 Client Smp ID: VBLKEA
Inj Date : 19-MAR-2011 05:33
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031901-BLK1:TD
Misc Info : VBLKEA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.178	10.172	(1.000)	791660	250.000	
* 2 Chlorobenzene-d5	117	12.403	12.397	(1.000)	771957	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	398327	250.000	
$ 4 Vinyl chloride-d3	65	4.508	4.515	(0.443)	218507	251.231	50.2461
$ 5 Chloroethane-d5	69	5.453	5.453	(0.536)	162460	264.920	52.9841
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	318380	205.914	41.1829
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	427449	446.142	89.2285
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	697219	252.725	50.5449
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.965)	463551	257.385	51.4770
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1390107	272.068	54.4136
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.850)	413480	260.230	52.0460
$ 12 Toluene-d8	98	11.361	11.361	(0.916)	1300172	269.591	53.9182
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.929)	547971	255.342	51.0684
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.948)	323861	463.107	92.6215
$ 15 1,4-Dioxane-d8	96	10.635	10.642	(1.045)	55127	4163.02	832.604(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.214	13.208	(1.065)	432953	238.239	47.6479

mlb 3-21-11

Data File: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Report Date: 21-Mar-2011 17:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	489028	268.326	53.6652
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

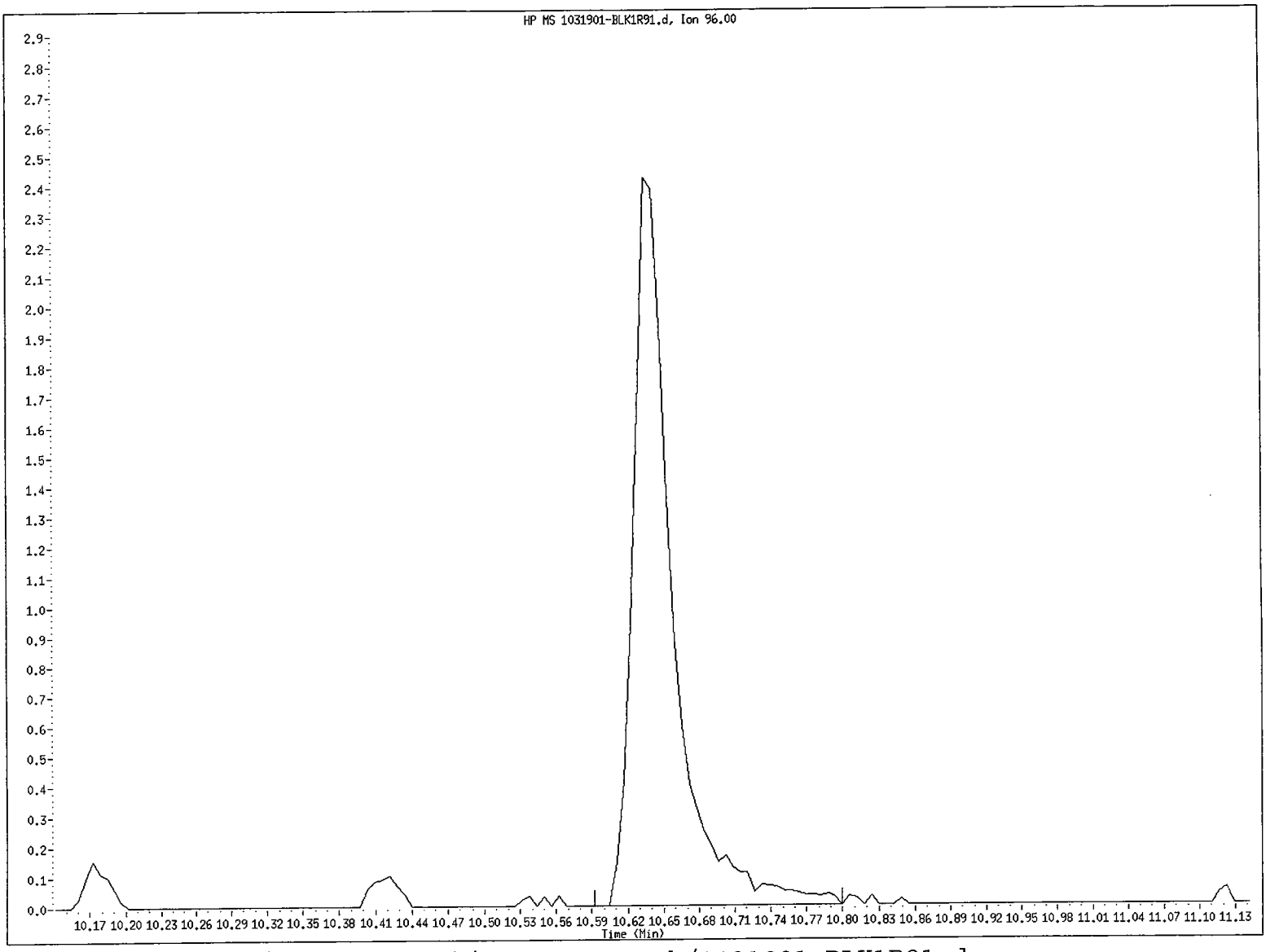
Data File: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Report Date: 21-Mar-2011 17:38

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 55127 Manually integrated



File name: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Client ID: VBLKEA
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 05:33
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Report Date: 21-Mar-2011 17:38

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110318B91.b/1031901-BLK1R91.d
Lab Smp Id: 1031901-BLK1 Client Smp ID: VBLKEA
Inj Date : 19-MAR-2011 05:33
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031901-BLK1:TD
Misc Info : VBLKEA
Comment :
Method : /chem/5975hpms91.i/DF110318B91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 17:35 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 8 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLKEB

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1031902-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1031902-BLK1R91.d

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	1.2	J
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VBLKEB

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1031902-BLK1

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1031902-BLK1R91.d

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

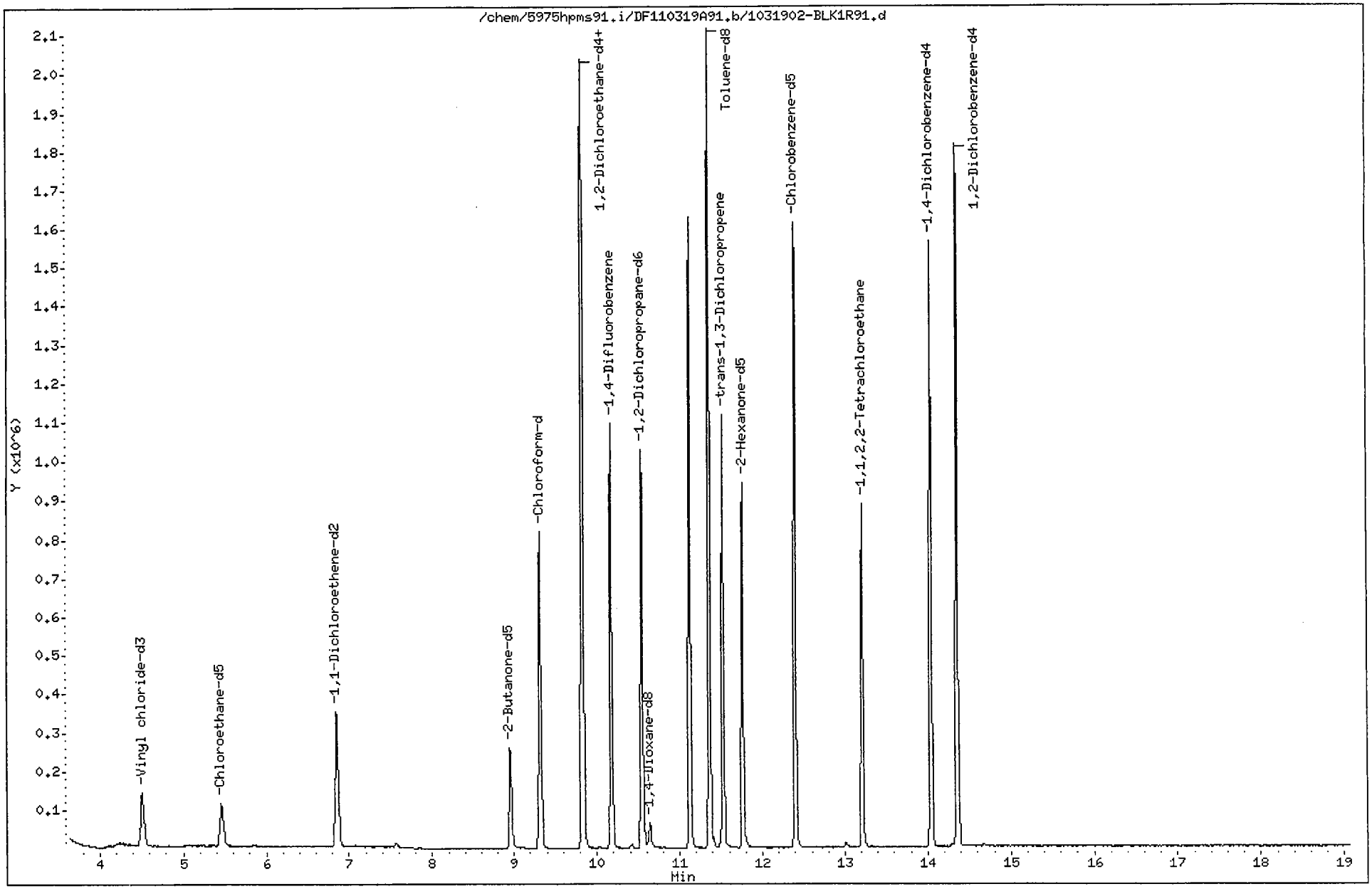
	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Date : 19-MAR-2011 14:17
Client ID: VBLKEB
Sample Info: 1031902-BLK1:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i

Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Report Date: 21-Mar-2011 18:36

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Lab Smp Id: 1031902-BLK1 Client Smp ID: VBLKEB
Inj Date : 19-MAR-2011 14:17
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031902-BLK1:TD
Misc Info : VBLKEB
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 26 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	760173	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	764350	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	394691	250.000	
$ 4 Vinyl chloride-d3	65	4.509	4.515	(0.443)	218585	261.730	52.3460
$ 5 Chloroethane-d5	69	5.454	5.453	(0.536)	163176	277.110	55.4219
$ 6 1,1-Dichloroethene-d2	63	6.850	6.856	(0.673)	316881	213.434	42.6868
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	318366	346.053	69.2105
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	669709	252.808	50.5616
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	467603	270.389	54.0779
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1357223	268.276	53.6552
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	401562	255.245	51.0489
$ 12 Toluene-d8	98	11.361	11.355	(0.916)	1277404	267.506	53.5012
$ 13 trans-1,3-Dichloropropene-d4	79	11.526	11.525	(0.930)	527977	248.474	49.6948
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	275591	398.005	79.6011
$ 15 1,4-Dioxane-d8	96	10.642	10.635	(1.046)	50157	3944.59	788.918(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	442558	245.948	49.1897

3-21-11

Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	486323	269.300	53.8600
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	7.569	7.563	(0.744)	4142	6.19030	1.23806(a)
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

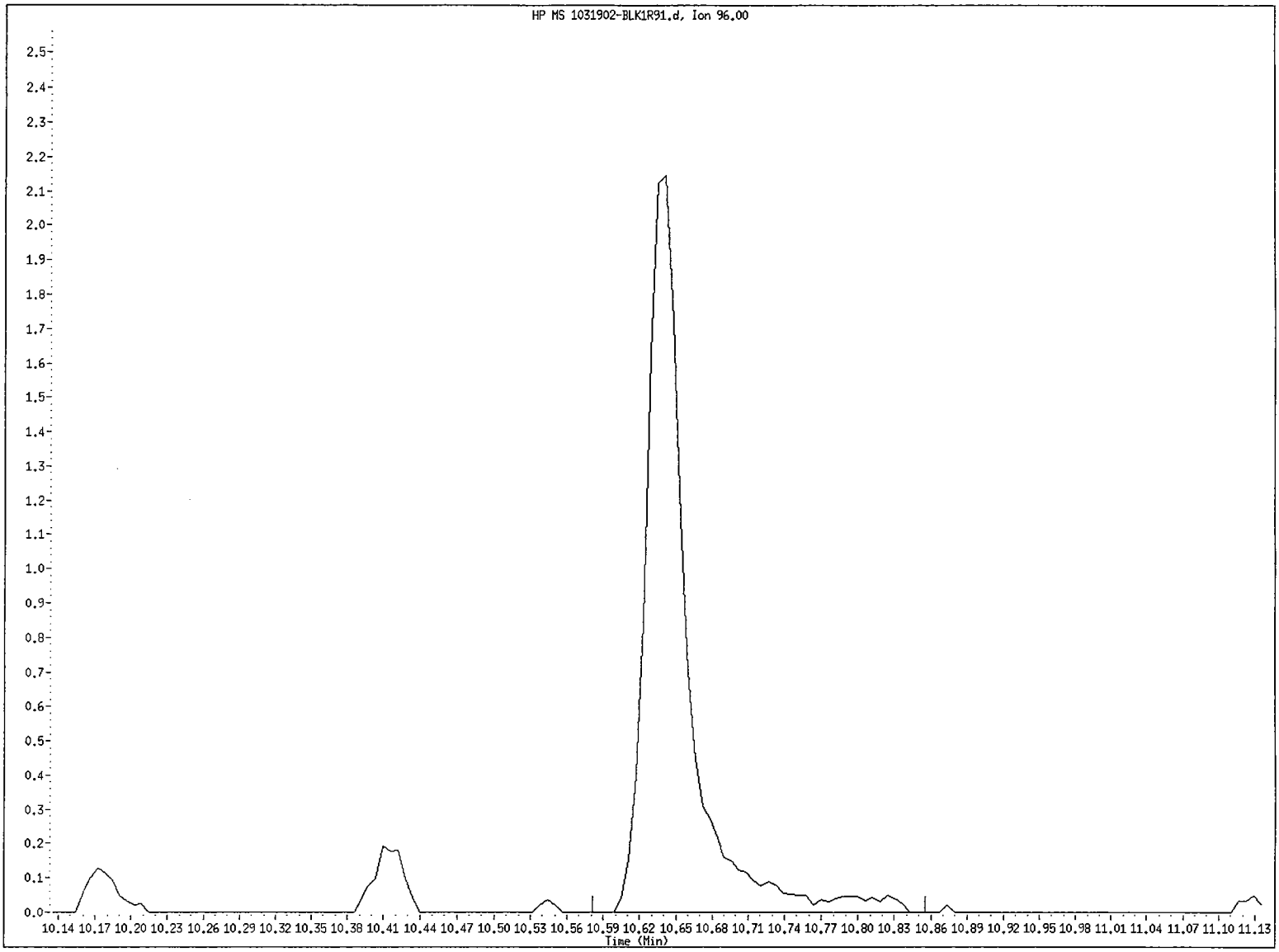
Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 50157 Manually integrated



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Client ID: VBLKEB
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 14:17
Retention Time: 10.64
Operator ID: TD

Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d

Date : 19-MAR-2011 14:17

Client ID: VBLKEB

Instrument: 5975hpms91.i

Sample Info: 1031902-BLK1:TD

Purge Volume: 5.0

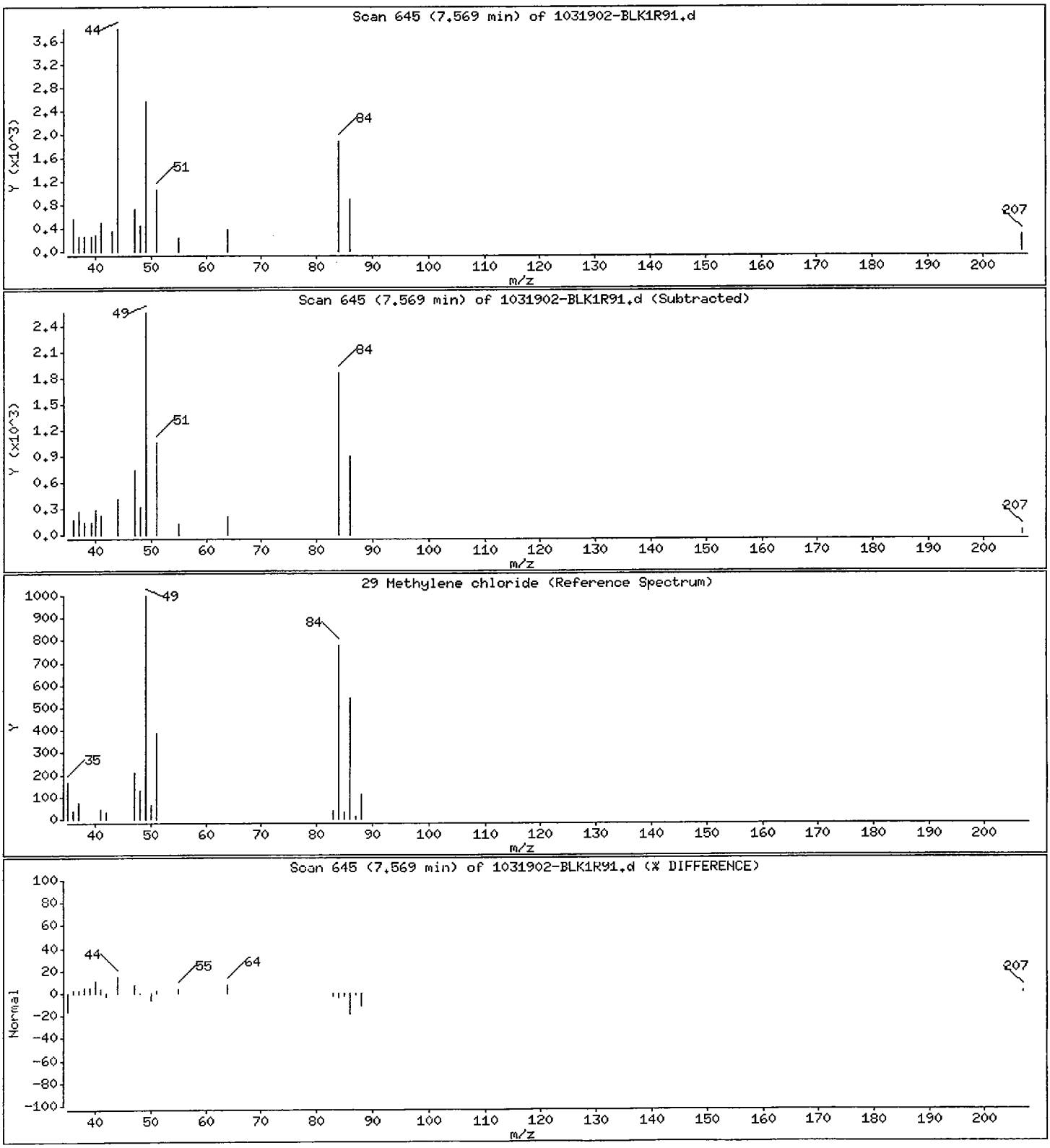
Operator: TD

Column phase: SPB-624

Column diameter: 0.32

29 Methylene chloride

Concentration: 1.23806 ug/L



Data File: /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Report Date: 21-Mar-2011 18:36

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1031902-BLK1R91.d
Lab Smp Id: 1031902-BLK1 Client Smp ID: VBLKEB
Inj Date : 19-MAR-2011 14:17
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1031902-BLK1:TD
Misc Info : VBLKEB
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 26 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VHBLKXU

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-08

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0891.d

Level: (TRACE/LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
75-00-3	Chloroethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
79-01-6	Trichloroethene	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
108-90-7	Chlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U

Report 1,4-Dioxane for Low-Medium VOA analysis only

1J - FORM I VOA-TIC
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
VHBLKXU

Lab Name: COMPUCHEM Contract: WATAUGA COUNTY

Lab Code: LIBRTY Case No.: 1103088 Mod. Ref No.: SDG No.: 1103088

Matrix: (SOIL/SED/WATER) WATER Lab Sample ID: 1103088-08

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 1103088-0891.d

Level: (TRACE or LOW/MED) LOW Date Received:

% Moisture: not dec. Date Analyzed: 03/19/2011

GC Column: SPB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

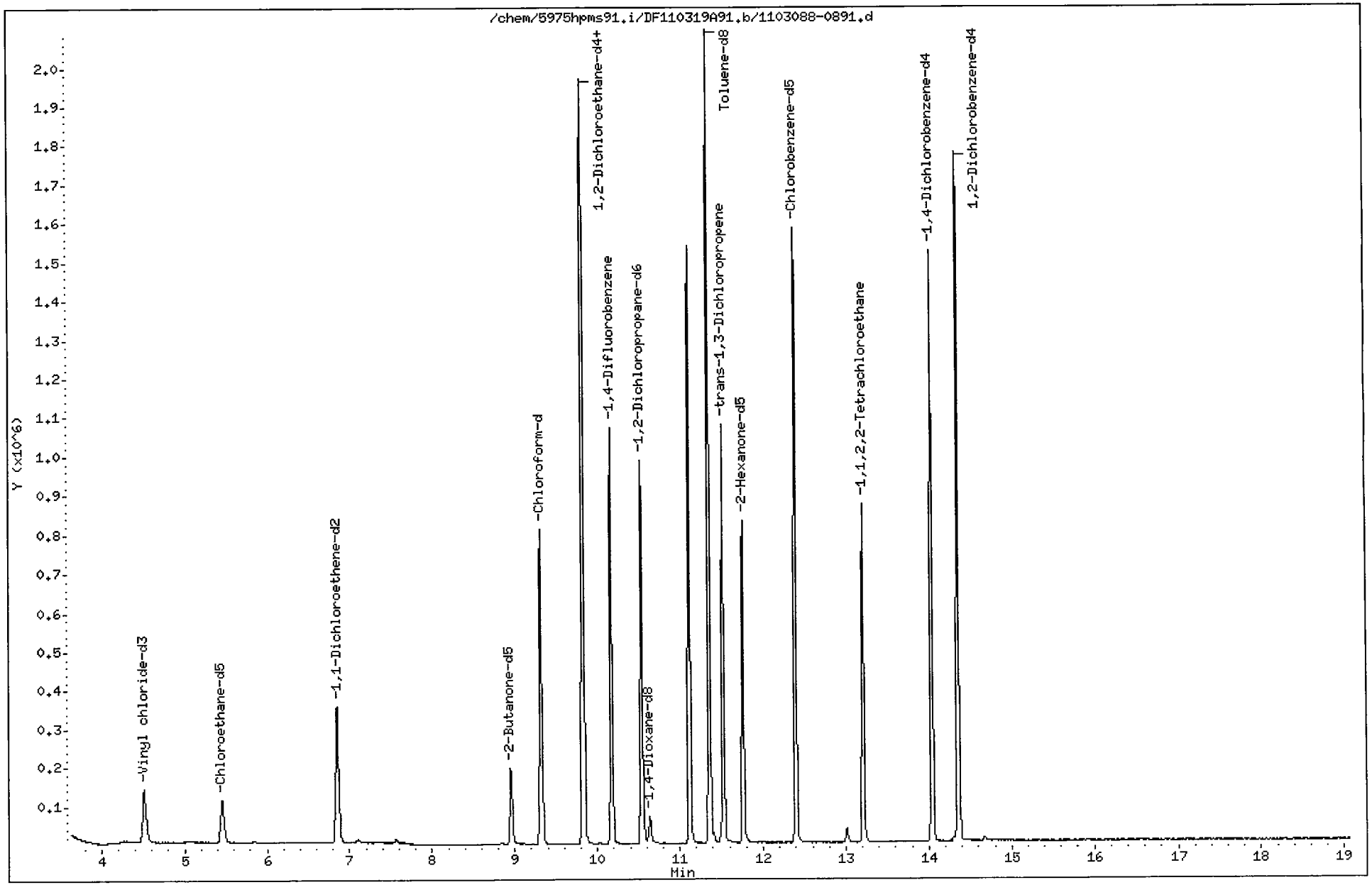
CONCENTRATION UNITS: (ug/L or ug/kg) ug/L Purge Volume: 5.0 (mL)

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
	E966796[1]	Total Alkanes	N/A		

[1]EPA-designated Registry Number.

Data File: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Date : 19-MAR-2011 20:06
Client ID: VHBLKXU
Sample Info: 1103088-08:TD
Purge Volume: 5.0
Column phase: SPB-624

Instrument: 5975hpms91.i
Operator: TD
Column diameter: 0.32



Data File: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Report Date: 21-Mar-2011 18:36

CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Lab Smp Id: 1103088-08 Client Smp ID: VHBLKXU
Inj Date : 19-MAR-2011 20:06
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-08:TD
Misc Info : VHBLKXU
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 38 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * 1/(Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vo	5.00000	Sample Volume purged (mL)
DF	1.00000	

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
* 1 1,4-Difluorobenzene	114	10.172	10.172	(1.000)	725787	250.000	
* 2 Chlorobenzene-d5	117	12.397	12.397	(1.000)	742823	250.000	
* 3 1,4-Dichlorobenzene-d4	152	14.037	14.037	(1.000)	385226	250.000	
$ 4 Vinyl chloride-d3	65	4.508	4.515	(0.443)	221521	277.812	55.5625
$ 5 Chloroethane-d5	69	5.460	5.453	(0.537)	162189	288.483	57.6966
$ 6 1,1-Dichloroethene-d2	63	6.856	6.856	(0.674)	319546	225.426	45.0852
$ 7 2-Butanone-d5	46	8.953	8.953	(0.880)	236380	269.110	53.8219
$ 8 Chloroform-d	84	9.319	9.319	(0.916)	656812	259.686	51.9372
$ 9 1,2-Dichloroethane-d4	65	9.825	9.825	(0.966)	449254	272.087	54.4174
$ 10 Benzene-d6	84	9.837	9.837	(0.793)	1304405	265.308	53.0615
$ 11 1,2-Dichloropropane-d6	67	10.544	10.544	(0.851)	379910	248.480	49.6960
$ 12 Toluene-d8	98	11.355	11.355	(0.916)	1226380	264.264	52.8527
$ 13 trans-1,3-Dichloropropene-d4	79	11.525	11.525	(0.930)	492941	238.708	47.7417
$ 14 2-Hexanone-d5	63	11.763	11.763	(0.949)	231294	343.712	68.7425
$ 15 1,4-Dioxane-d8	96	10.641	10.635	(1.046)	51490	4241.28	848.255(M)
$ 16 1,1,2,2-Tetrachloroethane-d2	84	13.208	13.208	(1.065)	421045	240.774	48.1548

mlt 3-21-11

Data File: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
$ 17 1,2-Dichlorobenzene-d4	152	14.354	14.354	(1.023)	470824	267.123	53.4247
18 Dichlorodifluoromethane	85	Compound Not Detected.					
19 Chloromethane	50	Compound Not Detected.					
20 Vinyl chloride	62	Compound Not Detected.					
21 Bromomethane	94	Compound Not Detected.					
22 Chloroethane	64	Compound Not Detected.					
23 Trichlorofluoromethane	101	Compound Not Detected.					
24 1,1-Dichloroethene	96	Compound Not Detected.					
25 1,1,2-Trichloro-1,2,2-trifluo	101	Compound Not Detected.					
26 Acetone	43	Compound Not Detected.					
27 Carbon disulfide	76	Compound Not Detected.					
28 Methyl acetate	43	Compound Not Detected.					
29 Methylene chloride	84	Compound Not Detected.					
30 trans-1,2-Dichloroethene	96	Compound Not Detected.					
31 Methyl tert-butyl ether	73	Compound Not Detected.					
32 1,1-Dichloroethane	63	Compound Not Detected.					
33 cis-1,2-Dichloroethene	96	Compound Not Detected.					
34 2-Butanone	43	Compound Not Detected.					
35 Bromochloromethane	128	Compound Not Detected.					
36 Chloroform	83	Compound Not Detected.					
37 1,1,1-Trichloroethane	97	Compound Not Detected.					
38 Cyclohexane	56	Compound Not Detected.					
39 Carbon tetrachloride	117	Compound Not Detected.					
40 Benzene	78	Compound Not Detected.					
41 1,2-Dichloroethane	62	Compound Not Detected.					
42 1,4-Dioxane	88	Compound Not Detected.					
43 Trichloroethene	95	Compound Not Detected.					
44 Methylcyclohexane	83	Compound Not Detected.					
45 1,2-Dichloropropane	63	Compound Not Detected.					
46 Bromodichloromethane	83	Compound Not Detected.					
47 cis-1,3-Dichloropropene	75	Compound Not Detected.					
48 4-Methyl-2-pentanone	43	Compound Not Detected.					
49 Toluene	91	Compound Not Detected.					
50 trans-1,3-Dichloropropene	75	Compound Not Detected.					
51 1,1,2-Trichloroethane	97	Compound Not Detected.					
52 Tetrachloroethene	164	Compound Not Detected.					
53 2-Hexanone	43	Compound Not Detected.					
54 Dibromochloromethane	129	Compound Not Detected.					
55 1,2-Dibromoethane	107	Compound Not Detected.					
56 Chlorobenzene	112	Compound Not Detected.					
57 Ethylbenzene	91	Compound Not Detected.					
58 m,p-Xylene	106	Compound Not Detected.					
59 o-Xylene	106	Compound Not Detected.					
60 Styrene	104	Compound Not Detected.					
61 Bromoform	173	Compound Not Detected.					
62 Isopropylbenzene	105	Compound Not Detected.					
63 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					

Data File: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Report Date: 21-Mar-2011 18:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng)	FINAL (ug/L)
64 1,3-Dichlorobenzene	146	Compound Not Detected.					
65 1,4-Dichlorobenzene	146	Compound Not Detected.					
66 1,2-Dichlorobenzene	146	Compound Not Detected.					
67 1,2-Dibromo-3-chloropropane	75	Compound Not Detected.					
68 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
69 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Report Date: 21-Mar-2011 18:36

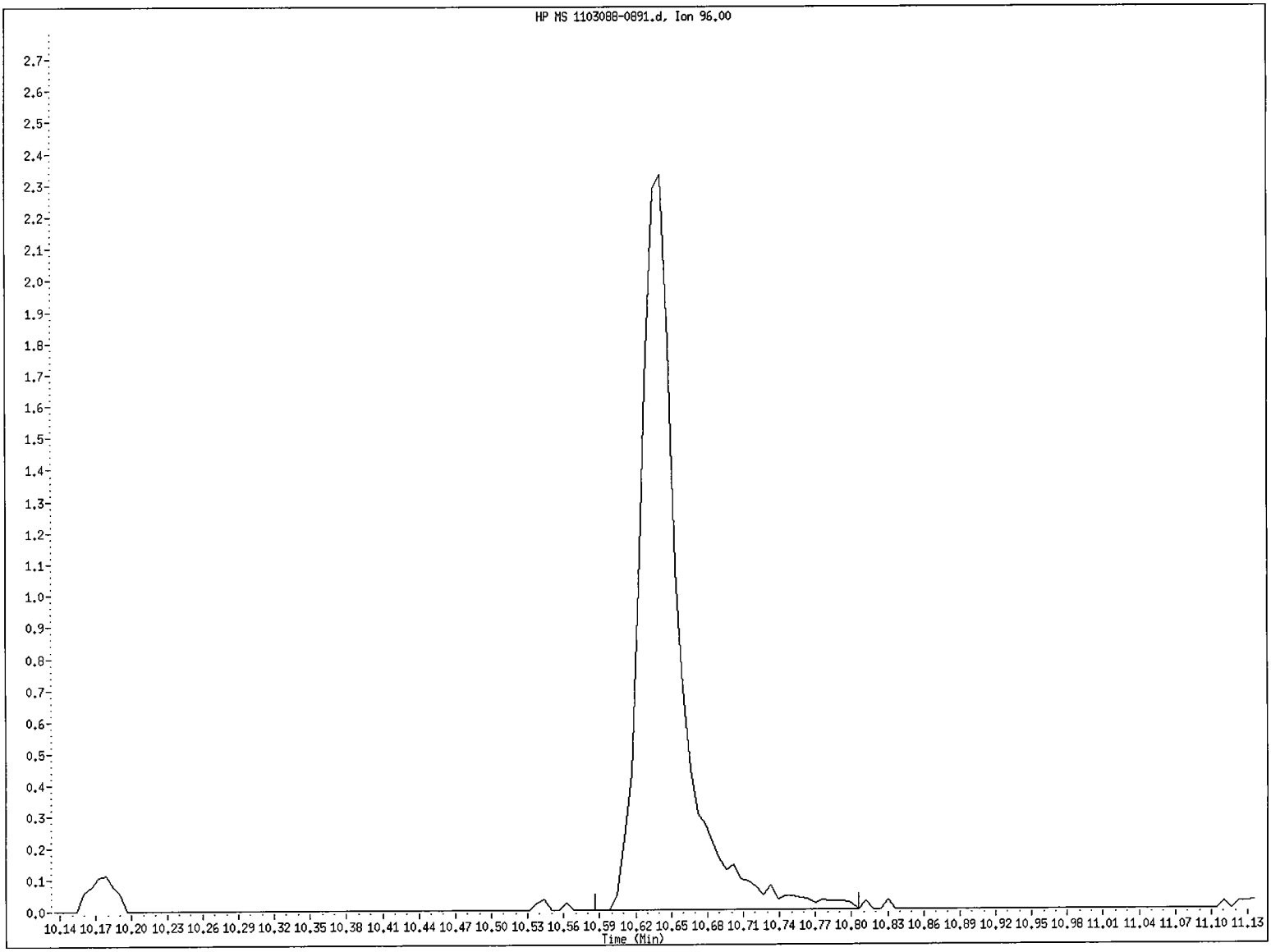
CompuChem

SOM1.2 QUANT AND RATIO REPORT

Data file : /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Lab Smp Id: 1103088-08 Client Smp ID: VHBLKXU
Inj Date : 19-MAR-2011 20:06
Operator : TD Inst ID: 5975hpms91.i
Smp Info : 1103088-08:TD
Misc Info : VHBLKXU
Comment :
Method : /chem/5975hpms91.i/DF110319A91.b/SOM01.2_WATERv3.m
Meth Date : 21-Mar-2011 18:30 ron Quant Type: ISTD
Cal Date : 19-MAR-2011 03:36 Cal File: 1C19001-CAL5.d
Als bottle: 38 QC Sample: STORAGEBLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

1,4-Dioxane-d8 CAS Number 17647-74-4 Area = 51490 Manually integrated



File name: /chem/5975hpms91.i/DF110319A91.b/1103088-0891.d
Client ID: VHBLKXU
Instrument ID: 5975hpms91.i
Injection Date and Time: 19-MAR-2011 20:06
Retention Time: 10.64
Operator ID: TD

c. Matrix Spike Data

- Tabulated Results (Form I, VOA-1, VOA-2)

- Reconstructed Ion Chromatogram and quantitation report

d. Matrix Spike Duplicate Data

- Tabulated Results (Form I, VOA-1, VOA-2)

- Reconstructed Ion Chromatogram and quantitation report