
2011 Annual Groundwater Monitoring Report Lockheed Martin Former French Road Facility Utica, New York

Prepared for:

Lockheed Martin

Prepared by:

ARCADIS U.S., Inc.

February 9, 2012



Eric Panhorst, P.E.
Remediation Technical Lead



Jeffrey Bonsteel
Associate Project Manager



Peter Milionis, P.G.
Project Manager

This page intentionally left blank.

TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
ACRONYMS	v
1 INTRODUCTION	1-1
2 SITE DESCRIPTION AND HISTORY	2-1
2.1 REMEDIAL ACTION OBJECTIVES.....	2-4
2.2 DESCRIPTION OF TREATMENT TECHNOLOGY.....	2-4
2.3 GROUNDWATER-CONTAMINANT DISTRIBUTION	2-6
3 GROUNDWATER MONITORING AND SAMPLING PROGRAM.....	3-1
3.1 MONITORING PARAMETERS.....	3-1
3.2 MONITORING LOCATIONS.....	3-1
4 2011 MNA PROGRAM EVALUATION	4-1
4.1 PROGRAM INTRODUCTION	4-1
4.2 OBJECTIVE 1 WELL EVALUATIONS AND RESULTS.....	4-1
4.3 OBJECTIVE 2 WELL EVALUATIONS AND RESULTS.....	4-4
4.4 OBJECTIVE 3 WELL EVALUATIONS AND RESULTS.....	4-5
4.5 OBJECTIVE 4 WELL EVALUATION AND RESULTS.....	4-5
4.6 SITE GEOCHEMISTRY EVALUATION	4-6
4.7 DATA VALIDATION.....	4-7
5 SUMMARY AND CONCLUSIONS	5-1
6 REFERENCES	6-1

TABLE OF CONTENTS (continued)

APPENDICES

APPENDIX A—HISTORICAL DATA FOR THE LOCKHEED MARTIN UTICA SITE,
1996–2008

APPENDIX B—HISTORICAL DATA FOR THE LOCKHEED MARTIN UTICA SITE,
2008–2009

APPENDIX C—HISTORICAL DATA FOR THE LOCKHEED MARTIN UTICA
SITE, 2010

APPENDIX D —ANNUAL GROUNDWATER SAMPLING DATA (SEPTEMBER 2011)

APPENDIX E—SEPTEMBER 2011 GROUNDWATER LAB-ANALYSIS REPORT

APPENDIX F—SEPTEMBER 2011 GROUNDWATER SAMPLING LOGS

APPENDIX G—DATA-USABILITY SUMMARY REPORT

LIST OF FIGURES

(Figures appear at the end of their respective sections)

	<u>Page</u>
Figure 1-1 Site Location Map.....	1-2
Figure 2-1 Facility Map	2-8
Figure 3-1 Monitoring Well Locations	3-5
Figure 3-2 Groundwater Elevation—September 2011	3-6
Figure 4-1 Groundwater Monitoring Data—September 2011.....	4-9
Figure 4-2 Decision Tree for Performance Monitoring in Objective 1 Locations	4-10
Figure 4-3a Volatile Organic Compound Concentrations in Well MW-1 (Tetrachloroethene, Trichloroethene, Trans-1,2-Dichloroethene, and Cis-1,2-Dichloroethene)	4-11
Figure 4-3b Volatile Organic Compound Concentrations in Well MW-1 (1,1,1-Trichloroethane, 1,1-Dichloroethane, and Vinyl Chloride).....	4-12
Figure 4-3c Volatile Organic Compound Concentrations in Well MW-3 (Tetrachloroethene, Trichloroethene, Trans-1,2-Dichloroethene, and Cis-1,2-Dichloroethene)	4-13

TABLE OF CONTENTS (continued)

	<u>Page</u>
Figure 4-3d Volatile Organic Compound Concentrations in Well MW-3 (1,1-Dichloroethane and Vinyl Chloride)	4-14
Figure 4-3e Volatile Organic Compound Concentrations in Well PZ-5 (Tetrachloroethene, Trichloroethene, and Cis-1,2-Dichloroethene)	4-15
Figure 4-3f Volatile Organic Compound Concentrations in Well PZ-5 (1,1-Dichloroethane and Vinyl Chloride)	4-16

LIST OF TABLES

(Tables appear at the end of their respective sections)

	<u>Page</u>
Table 3-1 Sampling Parameters and Sampling Frequency for the Monitoring-Network Wells	3-7
Table 3-2 Groundwater Elevation Measurements—September 26–27, 2011	3-8
Table 3-3 Monitoring Well and Piezometer Construction Details	3-9
Table 3-4 List of Monitoring Wells for Different Objectives in Monitored Natural-Attenuation Plan	3-10
Table 4-1 Groundwater Monitoring Data—September 2011	4-17
Table 4-2 Summary of Mann-Kendall Analysis of Groundwater Analytical Data	4-18
Table 4-3 Groundwater Sampling Field-Parameters and Geochemistry Analysis Results—September 2011	4-19

This page intentionally left blank.

ACRONYMS

1,1,-DCA	1,1-dichloroethane
ASP	analytical services protocol
BBL	Blasland, Bouck, & Lee, Inc.
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
CMIP	corrective measures implementation plan
CMS	corrective measures study
CO	consent order
COC	constituent(s) of concern
ConMed	ConMed Corporation
DCE	dichloroethene
DER	(NYSDEC) Division of Environmental Remediation
DO	dissolved oxygen
ERD	enhanced reductive-dechlorination
FNPD	Former Northern Perimeter Ditch
FNPD SIR	<i>Former Northern Perimeter Ditch Supplemental Investigation Report</i>
FS	feasibility study
GCTS	groundwater collection and treatment system
GE	General Electric Company
HDPE	high-density polyethylene
ICM	interim corrective measures
Lockheed Martin	Lockheed Martin Corporation
MMC	Martin Marietta Corporation
MNA	monitored natural-attenuation
MW	monitoring well
NYCRR	<i>New York Codes, Rules, and Regulations</i>
NYS	New York State
NYSDEC	New York State Department of Environmental Conservation
OCIDA	Oneida County Industrial Development Agency
OSWER	(USEPA) Office of Solid Waste and Environmental Restoration
PCE	tetrachloroethene
PZ	piezometer

QA/QC	quality assurance/quality control
SGV	standards and guidance values
SPDES	“State Pollutant Discharge Elimination System”
SSDS	sub-slab depressurization-system
TCE	trichloroethene
TOGS	(USEPA) <i>Technical and Operational Guidance Series</i>
trans-1,2-DCE	trans-1,2-dichloroethene
USEPA	U.S. Environmental Protection Agency
VC	vinyl chloride
VOC	volatile organic compound

Section 1

Introduction

On behalf of Lockheed Martin Corporation (Lockheed Martin), ARCADIS of New York, Inc. (ARCADIS) has prepared this *2011 Annual Groundwater Monitoring Report* (report) for the former Lockheed Martin French Road facility (herein, “the site”) in Utica, New York (see Figure 1-1). Figure 1-1 presents a site location map. This work was completed as part of the Corrective Measures Implementation Plan (CMIP) required by the October 3, 2008 “Order on Consent” (herein, the Order) issued by the New York State Department of Environmental Conservation (NYSDEC) (CO6-20080321-5). The *Draft Monitored Natural Attenuation Plan* (MNA Plan) (revised March 2011) is the basis for the groundwater monitoring program presented in the sections below. Lockheed Martin recently received comments from NYSDEC on the MNA Plan. The associated revisions do not affect designated sampling locations, sampling frequency, or analytical parameters. As stipulated by NYSDEC, alterations to the MNA Plan will be retained in an internal draft until more substantive changes are adopted and NYSDEC directs that an updated version be submitted for their review. This report is organized as follows:

Section 2—Site Description and History: Briefly describes the history and condition of the site and previous investigations.

Section 3—Groundwater Monitoring and Sampling Program: Presents the technical approach to the groundwater monitoring program, describes the sampling and analyses performed, and discusses the results.

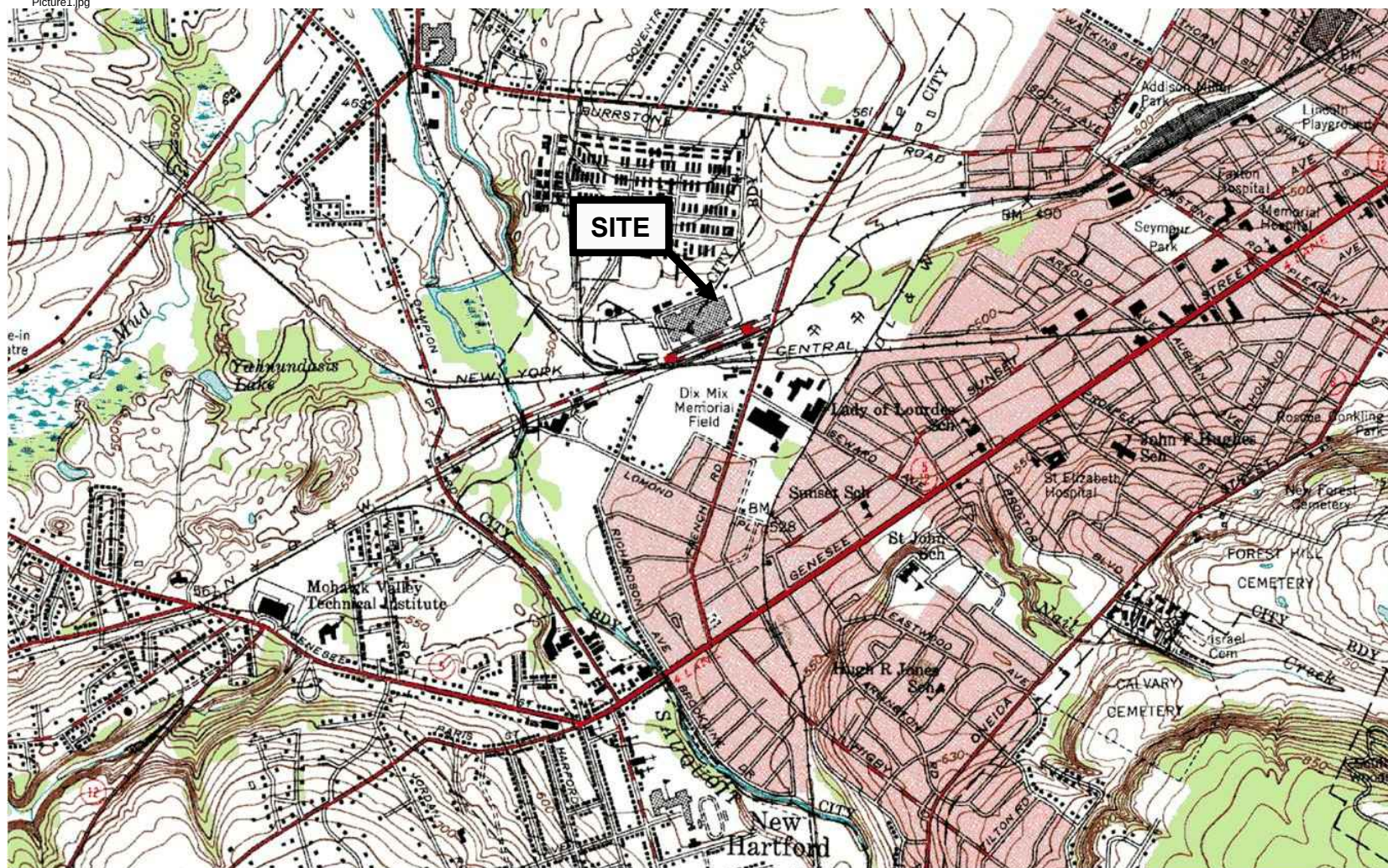
Section 4—2011 MNA Program Evaluation: Discusses and evaluates the monitored natural-attenuation program based on sampling results from the subject site monitoring wells (with respect to Objectives 1–4, described in section 3.2), the role of site geochemistry, and the data-validation procedures employed.

Section 5—Summary and Conclusions: Summarizes the 2011 annual groundwater monitoring results and discusses their implications for future site remedial efforts.

Section 6—References: Lists the references used in this report.

Figure 1-1

XREFS: IMAGES: PROJECTNAME: ----
Picture1.jpg



0 12000 24000
SCALE IN FEET

**2011 ANNUAL GROUNDWATER
MONITORING REPORT**
FORMER LOCKHEED MARTIN, FRENCH ROAD PROPERTY
UTICA, NEW YORK

SITE LOCATION MAP



FIGURE
1-1



Section 2

Site Description and History

In the early 1950s, General Electric Company (GE) acquired approximately 55 acres of undeveloped land on French Road in Utica, New York and built a 500,000-square-foot manufacturing facility. (See Figure 1-1 for a site location map.) GE production operations included manufacturing, assembling, and testing electrical components for the defense and aerospace industries. GE production operations continued until April 1993, when the facility was acquired by Martin Marietta Corporation (MMC).

In March 1995, MMC merged with Lockheed Corporation to form Lockheed Martin Corporation. In March 1996, Lockheed Martin sold the property to Pinnacle Park, Inc., which subsequently transferred the property to and leased it back from the Oneida County Industrial Development Agency (OCIDA). ConMed Corporation (ConMed), a medical supplies manufacturer and distributor, now occupies the facility under a lease with OCIDA. Although Lockheed Martin no longer owns the property, the corporation retains responsibility for environmental cleanup related to past releases at the site. Figure 2-1 presents a facility map.

Groundwater beneath the northeast portion of the main manufacturing building (known as the Solvent Dock Area) and in an area along the Former Northern Perimeter Ditch (FNPD) has been adversely affected by volatile organic compounds (VOCs). The former Solvent Dock and immediate vicinity (referred to hereafter as the Solvent Dock Area) once included a 275-gallon fiberglass overflow-retention tank. This tank stored spent waste solvents, which were periodically sampled, pumped from the tank, and disposed of by waste haulers. The tank was removed in June 1990, at which time the tank was observed as dented and leaking fluid. The FNPD (running along the northern property boundary) was an open-drainage swale that received storm water from the area north of the manufacturing building and conveyed the water, along with storm water from the western portion of the property, to a manhole before discharging it to the municipal storm sewer.

GE, MMC, and Lockheed Martin have investigated groundwater in these areas since 1991. In November 1994, Blasland, Bouck, & Lee, Inc. (BBL) investigated the facility storm sewer in the Solvent Dock Area. That investigation determined that VOCs detected in the storm sewer are attributable to the discharge of VOC-contaminated groundwater into the FNPD and infiltration of VOC-contaminated groundwater from the Solvent Dock Area into the storm sewer beneath the building.

In May 1995, BBL completed a *Storm Sewer Investigation Report* (BBL, 1995a), which recommended that the contaminated portion of the storm sewer flow be collected, treated, and discharged to meet proposed “State Pollutant Discharge Elimination System” (SPDES) VOC-effluent limitations. BBL evaluated remedial design alternatives (in accordance with NYSDEC recommendations) that would remedy contaminated groundwater by addressing the source of VOCs entering the storm sewer. The results of this evaluation are in the *Storm Sewer Basis of Design Report* (BBL, 1995d).

BBL completed the final design of the French Road facility groundwater collection and treatment system (GCTS) in October 1995. System construction was completed in June 1996 as an interim corrective measure (ICM). It collects groundwater from the Solvent Dock Area and the FNPD area via two under-drains, conveys the collected groundwater to a treatment building where a low profile air stripper removes the VOCs, and the treated effluent is then discharged to the municipal storm water system.

Once the system was installed and the ditch was replaced by a 24-inch-diameter high-density polyethylene (HDPE) pipe, groundwater no longer discharged into the northern perimeter ditch. The pipe now conveys storm water that formerly flowed in the ditch. The ditch area was filled and contoured to match the existing grade. The GCTS was expanded in 2010 to include a third collection line running through the facility’s eastern parking lot, parallel to a storm sewer running east–west toward a common storm sewer line (with eventual discharge to Nail Creek). This work also upgraded several GCTS components, notably the air stripper and associated controls.

BBL subsequently developed a hydraulic- and chemical-oriented groundwater-monitoring program to evaluate the effectiveness of the GCTS for the Solvent Dock Area. This program, as presented in the *Ground-Water Sampling and Analysis Work Plan* (BBL, 1998), has been modified through monthly and quarterly correspondence with NYSDEC to accommodate

changing conditions over the project life. In response to observed groundwater contamination at the site (as described above), Lockheed Martin voluntarily installed and operated the GCTS and began an investigation of soil vapor and indoor air quality.

The results of several soil-vapor and indoor-air quality studies led to the installation (in July 2008) of a sub-slab depressurization system (SSDS) in the northeast portion of the facility's main industrial building as an interim corrective measure (ICM). The ICM is designed to mitigate elevated chlorinated-VOC vapors detected below the concrete slab of the building. Soil vapors extracted from the subsurface are treated by carbon filtering before being discharged to the atmosphere. This minimizes the potential migration of VOCs from sub-slab soil-vapor to air inside the main building where workers are often present. This system was expanded in 2010 in response to continued investigation and evaluation of the system's performance.

Lockheed Martin's investigations into the area of concern identified at the site were completed as part of the Corrective Measures Study (CMS) and presented in *the Corrective Measures Study Report* (CMS Report, ARCADIS, 2009). The CMS Report selected monitored natural attenuation (MNA) as one of the remedial technologies for the corrective measures alternative to site address groundwater contamination, but Lockheed Martin deemed that supplemental investigations into specific areas of the site were warranted, to fully characterize the extent of contamination and to confirm the effectiveness of the remedial actions recommended in the CMS Report. An initial supplemental investigation was completed in late 2009, with a second investigation in 2010. These investigations are summarized in the *Former Northern Perimeter Ditch Supplemental Investigation Report* (FNPd SIR, ARCADIS, 2011), which confirmed the presence of VOC-contaminated groundwater near the FNPd and recommended further investigation of contaminants in soil, groundwater, and soil-vapor, as well as improved characterization of groundwater flow and water table elevations.

The data presented in both the FNPd SIR and the CMS Report has been the basis for identifying and evaluating potential remedial technologies for the FNPd area. A Feasibility Study Report (ARCADIS, 2011) for the FNPd was submitted to NYSDEC in June 2011. It selected a combination of *in situ* biological treatment, continued operation of the GCTS, implementation of institutional controls, and conduct of MNA as the most feasible remedial alternative for the

FNPD. A work plan for a pre-design investigation at the FNPD, appended to the FS Report, is aimed at filling remaining data gaps from the FNPD SIR.

The work plan also calls for a bioremediation pilot-test. The New York State Department of Environmental Conservation (NYSDEC) has approved the work plan and will review the FS Report, contingent on the pilot-test results. The work plan is now being implemented, with the pilot test planned for spring 2012. Historical data generated as part of the activities referenced above are in Appendices A–C. Appendix A presents data collected from 1996–2008; Appendix B presents data collected from 2008–2009; and Appendix C presents data collected in 2010.

2.1 REMEDIAL ACTION OBJECTIVES

The goal of the MNA system is to (while regularly monitoring) allow natural processes to reduce concentrations of constituents of concern (COC) in groundwater until NYSDEC groundwater-quality standards have been achieved, thereby better protecting human health and the environment. The remedial action objectives (RAOs) for the system designed to implement MNA at the French Road facility are as follows:

- demonstrate that COC concentrations in site groundwater are not a significant risk to human health or the environment;
- prevent migration of contaminants in groundwater at concentrations above cleanup goals; and
- prevent off-site migration of COC in groundwater at concentrations exceeding cleanup goals.

The MNA system described below achieves these objectives through natural attenuation.

2.2 DESCRIPTION OF TREATMENT TECHNOLOGY

MNA (as defined by the United States Environmental Protection Agency [USEPA] in Office of Solid Waste and Emergency Response “Directive 9200.4-17P” [1999]) refers to the reliance on natural attenuation processes to achieve site-specific remedial objectives within a reasonable period (as compared to other methods). Under favorable conditions, these natural attenuation processes (e.g., biodegradation, dispersion, dilution, sorption, volatilization, chemical or biological stabilization, transformation, or destruction of contaminants) act without human intervention to reduce the mass, toxicity, mobility, volume, or concentrations of contaminants in

soil and groundwater. The time required for these processes to reduce contaminant concentrations to levels that protect human health and the environment varies widely among different hydrogeologic systems and different chemical contaminants, and depends on the quantity of contaminant released.

In general, MNA is an appropriate remediation method only where its use would protect human health and the environment and where it can achieve site-specific remediation objectives within a reasonable period (as compared to other alternatives). When relying on natural attenuation processes for site remediation, USEPA prefers processes that degrade or destroy contaminants. USEPA recognizes MNA as complementary to other remediation technologies (e.g., source control). USEPA generally expects that MNA will be appropriate only for sites with a low potential for contaminant migration (USEPA, 1999).

MNA can involve various natural processes, including:

- Biodegradation—Changing the form of compounds by means of living creatures, such as microorganisms. Under optimal conditions, microorganisms can produce or encourage chemical reactions that change contaminants into a form(s) posing little or no health risk.
- Dispersion and dilution—As dissolved contaminants move farther from the source area, they disperse and are diluted to progressively lower concentrations over time. Contaminant concentrations eventually may be reduced sufficiently so that risk to human and environmental health is minimal.
- Sorption—Contaminant molecules dissolved in groundwater moving through soil and sediment particles (e.g., sand, silt, clay, organic matter) can sorb (i.e., adhere) onto these particle surfaces and hold bulk liquids in the pores in and between the particles, thereby slowing or stopping contaminant migration.
- Chemical reactions—Some contaminants, such as trichloroethane, can undergo significant degradation by chemical reactions without microbial activity. Recent research has shown that enhanced tetrachloroethene (PCE)- and dichloroethene (DCE)-degradation reactions can occur by alternative, abiotic mechanisms, proceeding to different chemical products. In particular, a variety of iron- and sulfur-bearing mineral species participate in degradation reactions with chlorinated ethenes at the mineral/water interface. Abiotic-reaction conditions favor transformation of chlorinated ethenes by dichloroelimination rather than by sequential hydrogenolysis (Suthersan, 2005).
- Volatilization—Many organic contaminants (e.g., petroleum hydrocarbons and chlorinated solvents) evaporate readily into the atmosphere, where air currents disperse the contaminants, thus reducing concentrations in groundwater.

Groundwater cleanup goals for the site are the NYSDEC *Technical Operational and Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values* (NYSDEC, 1998). Remedial criteria for site groundwater (per the Order) stipulate that groundwater contaminants will no longer pose a threat to human health or the environment.

Site conditions meet the criteria for MNA because:

- contaminants in groundwater can potentially be remedied by natural attenuation-processes;
- the contaminant plume appears stable, with a low probability that environmental conditions influencing plume stability will change over time;
- human health, drinking water supplies, other groundwater, surface water, ecosystems, sediments, air, or other resources would not be adversely affected as a consequence of selecting MNA as the remediation option; little or no demand is projected for the affected groundwater over the period during which the remedy would remain in effect;
- the contamination would not exert a long-term detrimental effect on available water supplies or other environmental resources;
- the estimated remediation period is regulatorily acceptable;
- no continuing source of contamination exists; and
- reliable site-specific mechanisms for implementing institutional controls are available.

As selected in the CMS Report, the major components of the selected corrective-measures alternative for site groundwater include MNA, operation and maintenance of the existing GCTS, and institutional controls. As noted, *in situ* bioremediation has also been selected for the FNPDP. This is subject to the results of a pilot test and NYSDEC's review of the FNPDP Feasibility Study Report.

2.3 GROUNDWATER CONTAMINANT DISTRIBUTION

Groundwater under the northeast portion of the main manufacturing building and the FNPDP has been contaminated by VOCs, including tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), and vinyl chloride. These constituents, as well as trans-1,2-dichloroethene (trans-1,2-DCE) and 1,1-dichloroethane (1,1-DCA), generally define the COC for the site MNA program. Depth to groundwater in these areas is shallow and ranges from two to seven feet below ground surface (ft bgs). The source of the groundwater

contamination under the northeast portion of the main building is probably the former 275-gallon overflow-retention tank, which was located immediately north of the loading dock along the northern wall of the manufacturing building. This tank was removed in 1990 as part of an interim remedial measure. Reports indicate that the overflow-retention tank was in poor condition and leaking upon removal.

As part of the tank removal, approximately five cubic yards of contaminated soil were removed for off-site disposal. Analytical data for soil samples collected near where the tank was removed indicate no remaining soil contamination. Residual on-site dissolved-phase constituents in groundwater are believed to result from isolated releases that affected both soil and groundwater. The inverts (bottom) of former underground-storage tanks were likely near or below the water table.

Soil, groundwater, and surface-water samples collected at the FNPD during initial and supplemental CMS investigations did not identify a specific source of observed groundwater contamination, but did identify areas of higher relative impacts that may be contributing to the continued detections of VOCs in groundwater along the FNPD. These areas are at the western and eastern ends of the maintenance building and may be due to localized disposal during past facility operations.

Groundwater contamination is found primarily in fill and shallow till. The water table is encountered near the bottom of the fill, typically within one foot of contact with the underlying till. Groundwater contamination is observed primarily in wells screened either solely within the fill or within the fill and underlying till. Hydropunch data collected from several vertical intervals within the till indicate decreased contamination with depth. Grain-size analysis and hydraulic-conductivity testing show that the fill and till both have a very low capacity to transmit water; that is, the fill and till exhibit very low permeability. This has naturally “contained” the migration of contaminated groundwater within the northeastern portion of the site. Off-site migration of contaminated groundwater has not been observed.

Figure 2-1

Section 3

Groundwater Monitoring and Sampling Program

To achieve the site remedial action objective (RAO), the MNA Plan specifies monitoring parameters, sampling frequency, and sampling locations for the site monitoring program.

3.1 MONITORING PARAMETERS

Groundwater VOCs comprise the parameters being monitored at the site (USEPA Method 8260). Measurement of field parameters depends on the sampling method used at individual sampling locations. Most sampling locations were purged and sampled using dedicated bailers. At these locations, field parameters consisted of pH, dissolved oxygen (DO), conductivity, temperature, and water levels. DO at these locations was not measured from bailer samples but was instead measured using a down-hole sensor.

Three monitoring wells (MW-1, MW-3, and MW-10) were sampled via low-flow purging and sampling procedures. For these wells, reduction-oxidation (redox) potential was also recorded using low-flow techniques. Selected points were also monitored for additional parameters, including ferrous iron (via a field kit), nitrate, sulfate, total alkalinity, and methane. As specified in the MNA Plan, these MNA parameters will be monitored quarterly for one year. After four quarters, only VOCs and field parameters (as described above) will be monitored. We assume that these parameters will provide sufficient information to evaluate natural attenuation mechanisms. Sampling protocols and standard operating procedures are included as Attachment 2 of the site-specific Quality Assurance Project Plan (ARCADIS, 2009).

3.2 MONITORING LOCATIONS

The well network for MNA monitoring at the site is presented in Table 3-1 and shown in Figure 3-1. Existing wells were selected as VOC monitoring points based on the current and anticipated extent of contaminants in groundwater (and as presented in the CMS Report and

supporting documents). Monitoring wells were selected for annual, semi-annual, or quarterly sampling. Monitoring wells selected for sampling, their corresponding sampling frequencies, and sampling rationales are as follows:

- MW-1 (quarterly) is within the plume and typically exhibits elevated VOC concentrations;
- MW-2 (annually) is within the plume and typically exhibits elevated VOC concentrations;
- MW-3 (quarterly) is within the plume and typically exhibits elevated VOC concentrations;
- MW-4 (annually) is at the fringe of the plume and hydraulically upgradient;
- MW-5 (semi-annually) is at the fringe of the plume and hydraulically upgradient;
- MW-10 (annually) is at the fringe of the plume and hydraulically cross-gradient;
- MW-13S (quarterly) is at the fringe of the plume, hydraulically upgradient, and monitors the shallow undifferentiated-fill unit;
- MW-14BR (annually) is downgradient of the plume and monitors the bedrock unit;
- PZ-5 (quarterly) is within the plume and typically exhibits elevated VOC concentrations;
- PZ-6 (semi-annually) is within the plume and typically exhibits elevated VOC concentrations;
- PZ-7 (semi-annually) is near the downgradient extent of the plume and typically does not exhibit elevated VOC concentrations;
- PZ-8 (quarterly) is within the plume and typically exhibits measurable VOC concentrations;
- PZ-11R and PZ-13R (quarterly) are at the edge of the plume and typically exhibit elevated VOC concentrations;
- PZ-18 (annually) is at the fringe of the plume, hydraulically cross-gradient, and monitors groundwater quality at the eastern extent of the site;
- PZ-26 (annually) is upgradient of the plume and monitors groundwater quality at the northern extent of the site;
- A1-PZ-2 (quarterly) is at the fringe of the plume and monitors groundwater quality at the western extent of the FNPB impacts;

-
- A2-PZ-1 (quarterly) is within the FNPB plume and exhibits measurable VOC concentrations; and
 - A2-PZ-7 (semi-annually) is within the FNPB plume and exhibits measurable VOC concentrations.

As identified in Table 3-1, groundwater-elevation measurements were collected before groundwater sampling at all accessible site monitoring-wells. Groundwater-elevation measurements are in Table 3-2 and Figure 3-2. Table 3-3 shows the construction details of monitoring wells and piezometers.

Monitoring wells selected for the MNA monitoring program will ensure that the site RAOs are being achieved. The following subsections outline the objectives of the MNA network wells:

Objective 1—Verify that contaminant concentrations are decreasing with time such that cleanup goals will be met. This objective will be met by monitoring those wells where exceedances have been reported. Long-term trend analysis will confirm downward trends in contaminant concentration, and MNA performance will be gauged against this analysis. At no point during the MNA period are contaminant concentrations expected to exceed historical maximums. Table 3-1 includes Objective 1 monitoring locations.

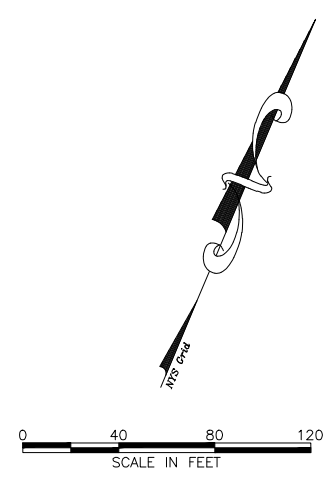
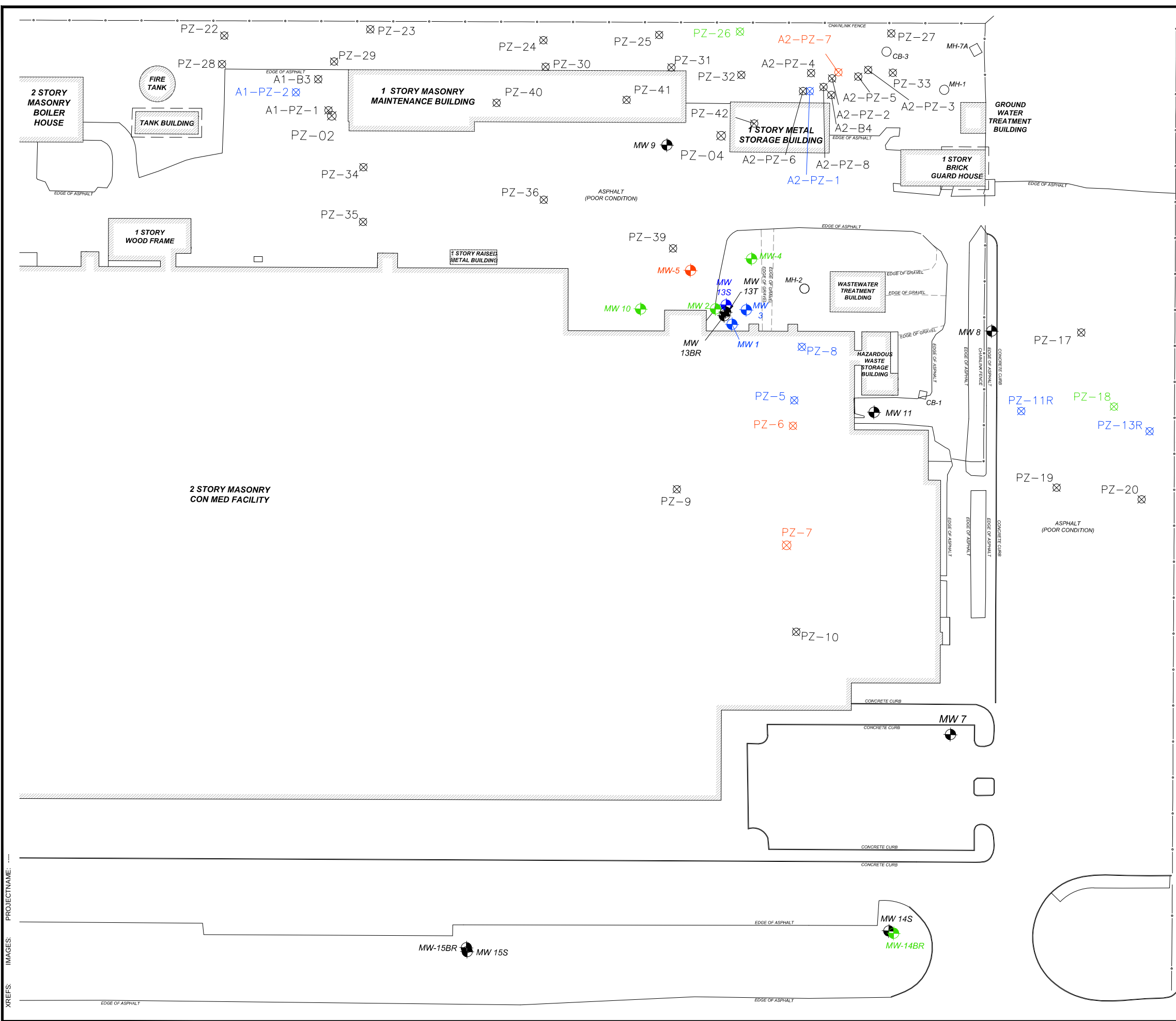
Objective 2—Confirm that contamination is not spreading to uncontaminated areas. Contaminants are expected to continue to disperse within known preferential-flow paths throughout the duration of the remedy. This objective will be met by monitoring those wells spanning the site (laterally and vertically) that yield concentrations below cleanup goals. Contamination in these locations is expected to be detectable but below cleanup goals or below detection limits. Table 3-1 includes Objective 2 monitoring locations.

Objective 3—Monitor contaminant levels at potential exposure points under current land use conditions. The monitoring well network will monitor contaminant levels at the site to ensure that proper personal protective equipment is used, should subsurface work be done in an area with contaminant levels exceeding cleanup goals. Wells selected for this objective are in locations that would cover potential areas of subsurface work, including both interior and exterior areas. Table 3-1 presents Objective 3 monitoring locations.

Objective 4—Monitor site hydrologic conditions over time to identify any changes in groundwater flow that might compromise human health or the environment. This includes evaluating groundwater elevations in both the overburden and bedrock monitoring wells. Monitoring wells that support this objective span the site (laterally and vertically) and will detect changes in groundwater flow and contaminant migration. All site monitoring well locations will be monitored quarterly for groundwater elevations, and will therefore be included as Objective 4 locations.

The four objectives listed above aim to verify that contaminant concentrations are not a significant risk to human health or the environment, to monitor the migration of contaminants at the site, and to monitor the hydrogeologic nature of the site to detect changes for use in future environmental decision-making. Monitoring locations at the site have been mapped to primary objectives, but various monitoring locations will be used for all objectives during data analysis and interpretation. Table 3-4 presents each of the monitoring locations and their primary objective.

Figure 3-1



- LEGEND:
- MW 10 MONITORING WELL LOCATION
 - PZ-9 PIEZOMETER LOCATION
 - QUARTERLY MONITORING
 - SEMI ANNUAL MONITORING
 - ANNUAL MONITORING

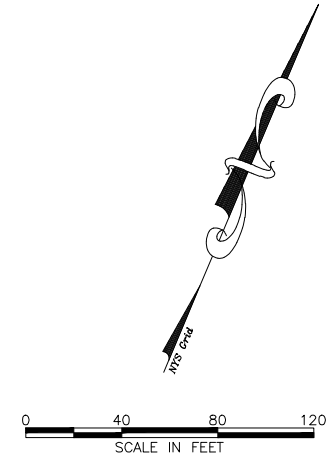
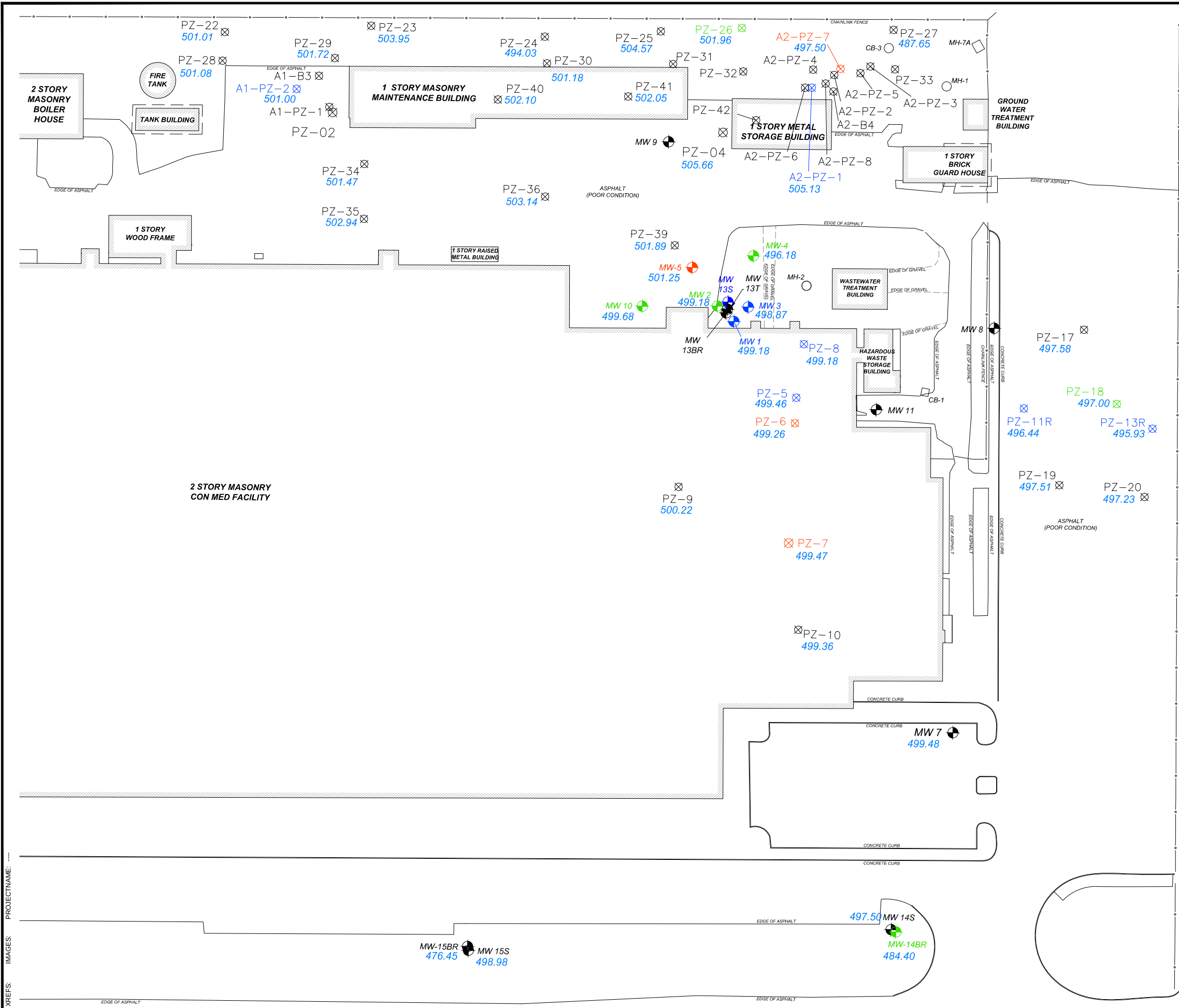
- NOTES:
- LABORATORY ANALYSIS TO BE TCL EPA 624/SW846 8260.
 - GROUNDWATER ELEVATIONS TO BE COLLECTED QUARTERLY FROM ALL SITE WELLS.

2011 ANNUAL GROUNDWATER MONITORING REPORT
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

MONITORING WELL LOCATIONS

FIGURE 3-1

Figure 3-2



- LEGEND:
- MW 10 MONITORING WELL LOCATION
 - PZ-9 PIEZOMETER LOCATION
 - QUARTERLY MONITORING
 - SEMI ANNUAL MONITORING
 - ANNUAL MONITORING
 - 497.23 GROUNDWATER ELEVATION

2011 ANNUAL GROUNDWATER
MONITORING REPORT
FORMER LOCKHEED MARTIN, FRENCH ROAD FACILITY
UTICA, NEW YORK

GROUNDWATER ELEVATION
SEPTEMBER 2011



FIGURE
3-2

Table 3-1

Table 3-1
Sampling Parameters and Sampling Frequency for the Monitoring Network Wells
Former Lockheed Martin French Road Facility
Utica, New York

Monitoring Well	Sampling Frequency	Sampling Parameters
MW - 1	Quarterly	VOCs, MNA Parameters, Field Parameters*
MW - 2	Annual	VOCs, Field Parameters
MW - 3	Quarterly	VOCs, MNA Parameters, Field Parameters*
MW - 4	Annual	VOCs, Field Parameters
MW - 5	Semi-Annual	VOCs, Field Parameters
MW - 6	-	-
MW - 7	-	-
MW - 8	-	-
MW - 9	-	-
MW - 10	Annual	VOCs, MNA Parameters, Field Parameters*
MW - 11	-	-
MW - 12	-	-
MW - 13S	Quarterly	VOCs, Field Parameters
MW - 13T	-	-
MW - 13BR	-	-
MW - 14S	-	-
MW - 14BR	Annual	VOCs, Field Parameters
MW - 15S	-	-
MW - 15BR	-	-
PZ - 2	-	-
PZ - 4	-	-
PZ - 5	Quarterly	VOCs, Field Parameters
PZ - 6	Semi-Annual	VOCs, Field Parameters
PZ - 7	Semi-Annual	VOCs, Field Parameters
PZ - 8	Quarterly	VOCs, Field Parameters
PZ - 9	-	-
PZ - 10	-	-
PZ - 11R	Quarterly	VOCs, Field Parameters
PZ - 13R	Quarterly	VOCs, MNA Parameters, Field Parameters*
PZ - 17	-	-
PZ - 18	Annual	VOCs, Field Parameters
PZ - 19	-	-
PZ - 20	-	-
PZ - 21	-	-
PZ - 22	-	-
PZ - 23	-	-
PZ - 24	-	-
PZ - 25	-	-
PZ - 26	Annual	VOCs, Field Parameters
PZ - 27	-	-
PZ - 28	-	-
PZ - 29	-	-
PZ - 30	-	-
PZ - 31	-	-
PZ - 32	-	-
PZ - 33	-	-
PZ - 34	-	-
PZ - 35	-	-
PZ - 36	-	-
PZ - 39	-	-
PZ - 40	-	-
PZ - 41	-	-
A1 - PZ - 1	-	-
A1 - PZ - 2	Quarterly	VOCs, MNA Parameters, Field Parameters*
A2 - PZ - 1	Quarterly	VOCs, MNA Parameters, Field Parameters*
A2 - PZ - 2	-	-
A2 - PZ - 3	-	-
A2 - PZ - 4	-	-
A2 - PZ - 5	-	-
A2 - PZ - 6	-	-
A2 - PZ - 7	Semi-Annual	VOCs, Field Parameters
A2 - PZ - 8	-	-

Notes:

1. All wells and piezometers will be measured for groundwater elevations on a quarterly basis.
2. MNA = monitored natural attenuation
3. VOCs = volatile organic compounds
4. - = Not sampled as part of MNA Program.
5. * = MNA parameters are proposed to only be collected quarterly during the first year of monitoring.

Table 3-2

Table 3-2
Groundwater Elevation Measurements - September 26-27, 2011
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	Depth to Water (ft TOC)	Top of PVC Riser Elevation (ft amsl)	Groundwater Elevation (ft amsl)
Objective 1	MW-1	8.09	507.27	499.18
	MW-3	10.58	509.45	498.87
	PZ-6	9.11	508.37	499.26
	PZ-5	8.83	508.29	499.46
	PZ-8	9.05	508.23	499.18
	PZ-11R	8.44	504.88	496.44
	PZ-13R	8.05	503.98	495.93
	A1-PZ-2	2.00	503.00	501.00
	A2-PZ-1	3.87	509.00	505.13
Objective 2	A2-PZ-7	12.09	509.59	497.50
	MW-5	3.08	504.33	501.25
	MW-13S	6.68	505.81	499.13
	MW-14BR	23.55	507.95	484.40
	PZ-18	7.85	504.85	497.00
Objective 3	PZ-26	8.99	510.95	501.96
	MW-2	5.42	504.60	499.18
	MW-4	10.55	506.73	496.18
	PZ-7	8.89	508.36	499.47
Others	MW-10	4.80	504.48	499.68
	MW-6	5.59	508.06	502.47
	MW-7	7.46	506.94	499.48
	MW-9	2.55	504.84	502.29
	MW-11	6.80	507.03	500.23
	MW-13BR	10.94	506.12	495.18
	MW-14S	10.35	507.85	497.50
	MW-15S	8.28	507.26	498.98
	MW-15BR	30.79	507.24	476.45
	PZ-4	0.47	506.13	505.66
	PZ-9	7.86	508.08	500.22
	PZ-10	8.78	508.14	499.36
	PZ-17	6.47	504.05	497.58
	PZ-19	7.09	504.60	497.51
	PZ-20	6.62	503.85	497.23
	PZ-22	7.56	508.57	501.01
	PZ-23	6.12	510.07	503.95
	PZ-24	10.74	504.77	494.03
	PZ-25	6.05	510.62	504.57
	PZ-27	16.47	504.12	487.65
	PZ-28	3.04	504.12	501.08
	PZ-29	2.12	503.84	501.72
	PZ-30	3.54	504.72	501.18
	PZ-31	7.46	506.17	498.71
	PZ-32	0.45	504.90	504.45
	PZ-33	6.80	510.00	503.20
	PZ-34	2.41	503.88	501.47
	PZ-35	1.04	503.98	502.94
	PZ-36	1.09	504.23	503.14
	PZ-39	2.62	504.51	501.89
	PZ-40	4.58	506.68	502.10
	PZ-41	4.22	506.27	502.05
	A2-PZ-2	6.08	509.74	503.66
	A2-PZ-4	0.65	509.40	508.75
	A2-PZ-5	5.81	510.03	504.22
	A2-PZ-6	1.20	509.74	508.54
	A2-PZ-8	0.74	509.70	508.96

Notes:

1. amsl = above mean sea level
2. ft = foot/feet
3. PVC = polyvinyl chloride
4. TOC = top of casing

Table 3-3

Table 3-3
Monitoring Well and Piezometer Construction Details
Former Lockheed Martin, French Road Facility
Utica, New York

Monitoring Well	Diameter/Material	Screen Length	Ground Surface Elevation	Top of PVC Riser Elevation	Well Depth (ft bgs)	Screen Depth (ft bgs)		Screen/Borehole Elevation		Hydrogeologic Unit Monitored	Date Installed	Consultant Name
						From (Top)	To (Bottom)	Top	Bottom			
MW - 1	4" PVC	10	507.51	507.27	17.2	7.0	--- 17.0	500.5	490.5	Fill/Till	1991	O'Brien & Gere
MW - 2	4" PVC	15	504.95	504.60	16.5	1.5	--- 16.5	503.5	488.5	Fill/Till	1991	O'Brien & Gere
MW - 3	2" PVC	10	507.06	509.45	13.0	3.0	--- 13.0	504.1	494.1	Fill/Till	1991	O'Brien & Gere
MW - 4	2" PVC	10	506.98	506.73	14.0	4.0	--- 14.0	503.0	493.0	Fill/Till	1991	O'Brien & Gere
MW - 5	2" PVC	10	504.72	504.33	14.0	4.0	--- 14.0	500.7	490.7	Fill/Till	1991	O'Brien & Gere
MW - 6	2" PVC	10	505.70	508.06	15.0	5.0	--- 15.0	500.7	490.7	Fill/Till	--	O'Brien & Gere
MW - 7	2" PVC	15	507.45	506.94	21.0	6.0	--- 21.0	501.5	486.5	Fill/Till	1993	O'Brien & Gere
MW - 9	2" PVC	10	505.18	504.84	13.5	3.5	--- 13.5	501.7	491.7	Fill/Till	1993	O'Brien & Gere
MW - 10	2" PVC	10	504.83	504.48	14.0	4.0	--- 14.0	500.8	490.8	Fill/Till	1993	O'Brien & Gere
MW - 11	2" PVC	20	507.26	507.03	25.0	5.0	--- 25.0	502.3	482.3	Fill/Till	1993	O'Brien & Gere
MW - 12	2" PVC	10	508.60	508.30	23.4	13.0	--- 23.0	495.6	485.6	Fill/Till	--	--
MW - 13S	2" PVC	5	506.32	505.81	7.0	2.0	--- 7.0	504.3	499.3	Fill	2008	ARCADIS
MW - 13T	2" PVC	10	506.11	505.68	20.0	10.0	--- 20.0	496.1	486.1	Till	2008	ARCADIS
MW - 13BR	2" PVC	10	506.36	506.12	45.0	35.0	--- 45.0	471.4	461.4	Bedrock	2008	ARCADIS
MW - 14S	2" PVC	10	508.22	507.85	16.0	6.0	--- 16.0	502.2	492.2	Undifferentiated Over	2008	ARCADIS
MW - 14BR	2" PVC	10	508.20	507.95	67.2	57.2	--- 67.2	451.0	441.0	Bedrock	2008	ARCADIS
MW - 15S	2" PVC	10	507.60	507.26	20.0	10.0	--- 20.0	497.6	487.6	Undifferentiated Over	2008	ARCADIS
MW - 15BR	2" PVC	10	507.53	507.24	67.6	57.6	--- 67.6	449.9	439.9	Bedrock	2008	ARCADIS
PZ - 2	1.5" PVC	5	504.13	503.69	10.3	5.0	--- 10.0	499.1	494.1	Fill/Till	--	--
PZ - 4	1.5" PVC	5	505.49	505.13	14.3	9.0	--- 14.0	496.5	491.5	Fill/Till	--	--
PZ - 5	1.5" PVC	5	508.44	508.29	10.7	5.7	--- 10.7	502.7	497.7	Till	--	--
PZ - 6	1.5" PVC	5	508.52	508.37	10.4	5.4	--- 10.4	503.1	498.1	Till	--	--
PZ - 7	1.5" PVC	5	508.51	508.36	10.2	5.0	--- 10.0	503.5	498.5	Till	--	--
PZ - 8	1.5" PVC	10	508.43	508.23	16.0	6.0	--- 16.0	502.4	492.4	Till	2008	ARCADIS
PZ - 9	1.5" PVC	5	508.55	508.08	10.0	5.0	--- 10.0	503.6	498.6	Till	2008	ARCADIS
PZ - 10	1.5" PVC	5	508.44	508.14	12.0	7.0	--- 12.0	501.4	496.4	Fill	2008	ARCADIS
PZ - 11R	1.5" PVC	5	505.03	504.68	10.0	5.0	--- 10.0	500.0	495.0	Fill	2010	ARCADIS
PZ - 13R	1.5" PVC	5	504.25	503.98	10.0	5.0	--- 10.0	499.3	494.3	Fill	2010	ARCADIS
PZ - 17	1.5" PVC	5	504.40	504.05	8.5	3.5	--- 8.5	500.9	495.9	Fill	2009	ARCADIS
PZ - 18	1.5" PVC	5	504.20	504.85	9.0	4.0	--- 9.0	500.2	495.2	Fill	2009	ARCADIS
PZ - 19	1.5" PVC	5	504.90	504.60	8.5	3.5	--- 8.5	501.4	496.4	Fill	2009	ARCADIS
PZ - 20	1.5" PVC	5	504.10	503.85	8.0	3.0	--- 8.0	501.1	496.1	Fill	2009	ARCADIS

Table 3-3
Monitoring Well and Piezometer Construction Details
Former Lockheed Martin, French Road Facility
Utica, New York

Monitoring Well	Diameter/Material	Screen Length	Ground Surface Elevation	Top of PVC Riser Elevation	Well Depth (ft bgs)	Screen Depth (ft bgs)		Screen/Borehole Elevation		Hydrogeologic Unit Monitored	Date Installed	Consultant Name
						From (Top)	To (Bottom)	Top	Bottom			
PZ - 21	1.5" PVC	6.5	506.00	505.70	9.5	3.0 --- 9.5		503.0	496.5	Fill	2009	ARCADIS
PZ - 22	1.5" PVC	10	505.54	508.57	11.5	1.5 --- 11.5		504.0	494.0	Fill/Till	2010	ARCADIS
PZ - 23	1.5" PVC	2	507.05	510.07	20.0	18.0 --- 20.0		489.1	487.1	Till	2010	ARCADIS
PZ - 24	1.5" PVC	10	504.77	504.77	14.0	4.0 --- 14.0		500.8	490.8	Fill/Till	2010	ARCADIS
PZ - 25	1.5" PVC	10	507.54	510.62	20.0	10.0 --- 20.0		497.5	487.5	Fill/Till	2010	ARCADIS
PZ - 26	1.5" PVC	10	507.80	510.95	20.0	10.0 --- 20.0		497.8	487.8	Fill/Till	2010	ARCADIS
PZ - 27	1.5" PVC	10	504.39	504.12	15.0	5.0 --- 15.0		499.4	489.4	Fill/Till	2010	ARCADIS
PZ - 28	1.5" PVC	10	504.39	504.12	12.0	2.0 --- 12.0		502.4	492.4	Fill/Till	2010	ARCADIS
PZ - 29	1.5" PVC	10	504.06	503.84	12.0	2.0 --- 12.0		502.1	492.1	Fill/Till	2010	ARCADIS
PZ - 30	1.5" PVC	8	505.08	504.72	10.0	2.0 --- 10.0		503.1	495.1	Fill/Till	2010	ARCADIS
PZ - 31	1.5" PVC	8	505.56	505.17	10.0	2.0 --- 10.0		503.6	495.6	Fill/Till	2010	ARCADIS
PZ - 32	1.5" PVC	9	505.29	504.90	11.0	2.0 --- 11.0		503.3	494.3	Fill/Till	2010	ARCADIS
PZ - 33	1.5" PVC	4.5	510.27	510.00	6.5	2.0 --- 6.5		508.3	503.8	Fill/Till	2010	ARCADIS
PZ - 34	1.5" PVC	9	504.12	503.88	11.0	2.0 --- 11.0		502.1	493.1	Fill/Till	2010	ARCADIS
PZ - 35	1.5" PVC	8	504.18	503.98	12.0	2.0 --- 12.0		502.2	492.2	Fill/Till	2010	ARCADIS
PZ - 36	1.5" PVC	10	504.23	504.23	12.0	2.0 --- 12.0		502.2	492.2	Fill/Till	2010	ARCADIS
PZ - 39	1.5" PVC	10	504.71	504.51	12.0	2.0 --- 12.0		502.7	492.7	Fill/Till	2010	ARCADIS
PZ - 40	1.5" PVC	10	506.46	506.68	11.5	1.5 --- 11.5		505.0	495.0	Fill/Till	2010	ARCADIS
PZ - 41	1.5" PVC	10	506.55	506.27	11.5	1.5 --- 11.5		505.1	495.1	Fill/Till	2010	ARCADIS
A1 - PZ - 1	1.5" PVC	10	503.96	503.77	12.5	2.5 --- 12.5		501.5	491.5	Fill/Till	2010	ARCADIS
A1 - PZ - 2	1.5" PVC	10	503.25	503.00	12.0	2.0 --- 12.0		501.3	491.3	Fill/Till	2010	ARCADIS
A2 - PZ - 1	1.5" PVC	10	510.04	509.00	15.0	5.0 --- 15.0		505.0	495.0	Fill/Till	2010	ARCADIS
A2 - PZ - 2	1.5" PVC	10	509.90	509.74	15.0	5.0 --- 15.0		504.9	494.9	Fill/Till	2010	ARCADIS
A2 - PZ - 3	1.5" PVC	10	509.67	509.46	12.0	2.0 --- 12.0		507.7	497.7	Fill/Till	2010	ARCADIS
A2 - PZ - 4	1.5" PVC	12	509.56	509.40	15.0	3.0 --- 15.0		506.6	494.6	Fill/Till	2010	ARCADIS
A2 - PZ - 5	1.5" PVC	10	510.24	510.03	12.0	2.0 --- 12.0		508.2	498.2	Fill/Till	2010	ARCADIS
A2 - PZ - 6	1.5" PVC	12	509.92	509.74	14.0	2.0 --- 14.0		507.9	495.9	Fill/Till	2010	ARCADIS
A2 - PZ - 7	1.5" PVC	12.5	509.74	509.59	15.0	2.5 --- 15.0		507.2	494.7	Fill/Till	2010	ARCADIS
A2 - PZ - 8	1.5" PVC	12	509.91	509.70	14.5	1.5 --- 14.5		508.4	495.4	Fill/Till	2010	ARCADIS

Notes:

1. All elevations are reported as feet mean sea level (ft msl).
2. Construction details for MW-1, MW-6, PZ-2, and PZ-4 through PZ-7 estimated based on field measurements.
3. ft bgs = feet below ground surface
4. PVC = polyvinyl chloride
5. Survey data referenced horizontally to the NAD83 and projected on the New York State Plane Coordinate System (Central Zone).
6. The reference vertical benchmark is the finished floor elevation of the southeasterly corner of the Boiler House Building (Elevation 506.50 feet).
7. -- = unknown detail

Table 3-4

Table 3-4
List of Monitoring Wells for Different Objectives
in Monitored Natural Attenuation Plan
Former Lockheed Martin French Road Facility
Utica, New York

Objective 1 Monitoring Network	Objective 2 Monitoring Network	Objective 3 Monitoring Network
MW-1	MW-5	MW-2
MW-3	MW-13S	MW-4
PZ-5	MW-14BR	MW-10
PZ-6	PZ-18	P Z-7
PZ-8	PZ-26	
PZ-11R		
PZ-13R		
A2-PZ-1		
A2-PZ-7		
A1-PZ-2		

Notes:

1. All wells will be measured for groundwater elevations on a quarterly basis for Objective 4 requirements.

Section 4

2011 MNA Program Evaluation

4.1 PROGRAM INTRODUCTION

The MNA Plan (ARCADIS, 2011) calls for quarterly, semi-annual, and annual monitoring to evaluate the performance of the MNA remedy. The first groundwater-sampling event as part of the MNA plan was conducted on September 26–28, 2011. It constitutes the annual event for 2011. Results of the September 2011 sampling for wells and piezometers are summarized in Appendix D; selected constituents are plotted spatially in Figure 4-1; selected constituents are further summarized according to Objective-monitoring locations in Table 4-1. Laboratory analytical results for September 2011 groundwater monitoring are in Appendix E. Historical chemical-analytical results of groundwater samples collected from piezometers and monitoring wells are summarized in Appendices A through C. Appendix A presents data collected from 1996–2008, Appendix B presents data collected from 2008–2009, and Appendix C presents data collected in 2010.

As prescribed in the MNA Plan, evaluation of data for each of the four objectives will be conducted after each sampling event. The evaluation of the single sampling event conducted in 2011 is presented in the following sections. The limited historical data set for several monitoring points (most monitoring points are newly installed) means that the statistical evaluation defined in the MNA Plan cannot be applied to all locations until more data are collected as part of ongoing monitoring. Nonetheless, for those qualifying locations, available historical data that were evaluated against recent results (in accordance with the MNA Plan) and conclusions and recommendations are presented, where appropriate.

4.2 OBJECTIVE 1 WELL EVALUATIONS AND RESULTS

Groundwater quality from Objective 1 monitoring locations was assessed by comparing the analytical results to the NYSDEC TOGS 1.1.1 “Ambient Water Quality Standards and Guidance Values” (SGVs, Table 4-1). Chlorinated VOCs are among the predominant constituents detected at concentrations greater than SGVs. In addition, 1,1,2-trichloro-1,2,2-trifluoroethane exceeded the SGV at sampling location A2-PZ-1. Non-aqueous-phase liquids were not detected in any wells during the well-gauging event. Constituents detected at the site are similar to those previously identified. However, detected concentrations of constituents at piezometer A2-PZ-1 are greater than those reported historically at the site.

Long-term trend analysis of analytical results from Objective 1 wells evaluated whether an unexpected expansion of a contaminated area or a sustained increase in constituent of concern (COC) concentrations in the area of known contamination has occurred. Recent data were also compared against historical maximums. The eight most recent sampling results for a given well and any COC detected were used to complete the trend analysis. Samples included in this analysis were collected through September 2011.

The requirements for historical data limited statistical analysis to sampling locations MW-1, MW-3, and PZ-5. This is because other locations that were more recently installed and/or are less frequently sampled lack the requisite eight or more data points. Only one or two data points are currently available for monitoring locations PZ-8, PZ-11R, PZ-13R, A1-PZ-2, A2-PZ-1, and A2-PZ-7; PZ-6 only has four points. The results from these statistical tests were used in conjunction with the performance-monitoring decision tree to select response actions for further evaluation. The site-wide performance-monitoring decision tree for Objective 1 sampling locations is in Figure 4-2.

The decision tree provides a common process for evaluating statistical results and triggering a response action (when necessary) to ensure remedy effectiveness. The performance-monitoring well network monitors long-term trends in recognized areas of contamination, based on the objectives of the MNA Plan. Persistent, increasing trends and/or a sudden increase in individual COC concentrations may signify unexpected changes in the plume and therefore initiate a response action within the decision tree. The three results of statistical analyses that trigger

action are (1) a statistically increasing trend, (2) a sudden increase, and (3) exceedance of a historical maximum paired with an increasing trend.

The initial step of the overall trend analysis is to screen COC concentrations found in Objective 1 wells against their respective cleanup goals. If the eight most recent results for a specific COC at a monitoring well were less than its respective cleanup goal, the COC trend result for that particular well was not calculated. If any of the eight most recent results for a specific COC at Objective 1 wells were equal to or greater than the respective cleanup goals, then a statistical-trend method using the non-parametric Mann-Kendall test was employed. A pre-statistical test evaluation was also included to develop concentration/time plots of data from a given well, which can identify temporal patterns in the data, such as periodic fluctuations (e.g., seasonality), or an overall trend in the data (e.g., increasing, decreasing, or stable).

The statistics for the Mann-Kendall test were calculated on a spreadsheet following USEPA (2006) guidance. The Mann-Kendall trend test is a non-parametric test that evaluates trends based on ranked concentration-data, rather than individual concentration-values. Mann-Kendall trend tests were conducted to evaluate concentration trends without the potential confounding effects of large variations in concentrations over time at a given location. A series of pair-wise slopes were calculated to determine the change in the concentration divided by the time interval between sequential sampling events. A test-statistic “S” was computed based on the difference between the number of pair-wise slopes that are strictly positive differences and negative differences. The null hypothesis of *no trend* (equal numbers of positive and negative differences) was evaluated at a 90% confidence interval.

The p-value of the correlation provides a measure of the level of significance of the statistical test. Correlations were accepted as significant for p-values less than or equal to 0.1 (significant trend identified at the 90% confidence level) and not significant for p-values greater than 0.1 (no significant trend identified at the 90% confidence level,). The trend direction was defined based on review of concentration/time plots of data from a given location. Trend direction was defined as decreasing if concentrations indicated a significant decreasing trend over time, or increasing if concentrations indicated a significant increasing trend over time.

Where non-detect concentrations were used in computations, the concentrations were assumed to be one-half of the detection limits. Use of this value for concentrations that were below detection

provides a conservative estimate for evaluating concentration trends over time. Wells with greater than 50% non-detects were not included in the analysis.

The term *sudden increase* identifies an unexpected increase in COC concentrations. Evaluation of monitoring data identified sudden increases that may have occurred after implementation of the MNA remedy. The most recent eight samples were used to calculate a COC-specific mean and standard deviation. A result exceeding the mean plus three standard deviations was considered a sudden increase. The most recent concentration of a given COC in a well was compared to this threshold to determine whether a sudden increase had occurred. An *exceedance of a historical maximum* is a term used in the Objective 1 decision tree and defined as any value exceeding the maximum concentration of the historical data set. After each sampling event, the concentrations of COC detected were compared with their respective historical maximums for each location.

The results of the Mann-Kendall analysis, including interpretation of trend directions and p-values of the test at the 90% confidence level, are summarized in Table 4-2. Results of the sudden increase evaluation for the selected Objective 1 wells are presented alongside the trend analysis in Table 4-2. The table also presents historical maximums for statistically qualified locations. Trend directions listed in Table 4-2 are summarized from the review of concentration/time plots presented as Figures 4-3a through 4-3f.

As shown in Table 4-2, no increasing trends were identified for Objective 1 locations MW-1, MW-3, and PZ-5. All identified trends from Mann-Kendall analysis were determined to be decreasing based on review of respective concentration/time plots. No sudden increases or historical maximum exceedances were identified. As noted, statistical results of monitoring data from sampling locations MW-1, MW-3, and PZ-5 are subject to processes defined in the performance-monitoring decision tree shown in Figure 4-2. The respective sampling locations are subject only to continued monitoring (as provided for in the decision tree) because these results do not identify increasing trends, sudden increases, or exceeded maximums.

4.3 OBJECTIVE 2 WELL EVALUATIONS AND RESULTS

The Objective 2 monitoring wells are intended to confirm that contamination is not spreading to uncontaminated areas of the site. Objective 2 monitoring wells consist of MW-5, MW-13S,

MW-14BR, PZ-18, and PZ-26. Results from these wells are summarized and compared to cleanup goals in Table 4-1. These results are also plotted spatially on a facility plan in Figure 4-1. Data from the September 2011 sampling show that all COC in these wells are below cleanup goals for the site, and most of these COC are below their detection limits (Table 4-1). Results of Objective 2 monitoring wells therefore indicate that contamination is not spreading to uncontaminated areas of the site.

4.4 OBJECTIVE 3 WELL EVALUATIONS AND RESULTS

The Objective 3 monitoring wells defined in the MNA plan monitor contaminant levels at potential exposure points under current land use conditions. The monitoring well network will monitor contaminant levels at the site to ensure that proper personal protective equipment is used, should subsurface work be done in an area with contaminant levels exceeding cleanup goals. Wells selected for this objective are in locations that would be potential areas of subsurface work, including both interior and exterior areas. Sampling results from September 2011 are summarized in Table 4-1 and shown in Figure 4-1.

All COC in Objective 3 wells MW-4 and PZ-7 are below their respective cleanup goals (Table 4-1). For Objective 3 well MW-2, only cis-1,2-DCE, vinyl chloride, and 1,1-dichloroethane (1,1-DCA) remained above cleanup goals in the September 2011 sampling. For Objective 3 well MW-10, only cis-1,2-DCE and vinyl chloride are above cleanup goals. All other COC are below cleanup goals. When subsurface work is done in the area of MW-2 and MW-10, proper personal protective equipment should be used.

4.5 OBJECTIVE 4 WELL EVALUATIONS AND RESULTS

Objective 4 monitoring wells defined in the MNA Plan monitor hydrologic conditions at the site over time to identify any changes in groundwater flow that might alter the basis of the assumptions used to create the MNA Plan. This includes evaluating groundwater elevations in both the overburden and bedrock monitoring wells. Monitoring wells that support this objective span the site (laterally and vertically) and will detect changes in groundwater flow and the direction of potential contaminant migration. All on-site monitoring wells are monitored quarterly for groundwater elevations and are included as Objective 4 locations. Groundwater-elevation data from the September 2011 sampling event are summarized in Table 3-2 and shown

in Figure 3-2. The elevation data indicate that groundwater is flowing to the southeast, which is consistent with historical observations.

4.6 SITE GEOCHEMISTRY EVALUATION

Field parameters consisting of pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), specific conductivity, and temperature are periodically collected to evaluate potential natural-attenuation mechanisms at the site. Additional geochemical parameters, including ferrous iron (via a field kit), nitrate, sulfate, total alkalinity, and methane, are also periodically collected at selected locations. These data provide information on geochemical conditions, which help assess whether natural attenuation is occurring.

Geochemistry results for the September 2011 sampling are summarized below. Table 4-3 provides the field parameters and geochemical parameters for all monitoring locations sampled in September 2011:

- The pH measured was in the neutral range (6.7–7.8), except for well MW-14BR (pH of 9.7), which is at the edge of the southeastern corner of the site. This relatively higher pH at well MW-14BR is consistent with previous pH measurements at that location.
- Nitrate concentrations were low. Nitrate concentrations measured at most of the locations were near or below the detection limit, except for MW-1 (0.73 milligrams per liter [mg/L]).
- DO values were detected in nearly all of the wells at concentrations ranging from 0.04–1.9 mg/L. Only A2-PZ-7 had a higher DO (4.5 mg/L).
- Sulfate concentrations were measured at selected locations and range from below the detection limit to 166 mg/L. However, only one of these locations (A1-PZ-2) indicates a sulfate concentration of less than 20 mg/L (which may indicate that sulfate is reduced to sulfide at this location).
- Methane concentrations were detected in all wells selected for analysis. At two locations (A2-PZ-1 and A2-PZ-2), concentrations were greater than 500 micrograms per liter, indicative of methanogenic conditions.
- ORP measurements for most wells indicate a possible moderately reducing-to-low oxidizing groundwater environment (ranging from 145–46 mV); MW-1, MW-3, PZ-8, MW-13S, and MW-4 show higher positive ORP values (ranging from 68–121 mV), but these values are still within the range that may be observed in a reducing environment. Bear in mind the limitations of ORP field measurements when using ORP data. These measurements are semi-quantitative and are less reliable redox indicators, since they are sensitive to interferences from aquifer geochemical conditions (USEPA Region 4, 2009).

Field ferrous iron (Fe^{2+}) measurements conducted in four wells (concentrations ranging 0.01 mg/L in MW-1 to 0.87 mg/L in MW-10) may suggest a mildly reducing environment in some of these wells. Collecting additional data would be warranted to confirm this.

Geological characterization shows a dark-gray clay lens in the till at most site locations. Gray clay is typically observed in iron-to-sulfate reducing conditions, as iron oxyhydroxide in the aquifer sediment is reduced to Fe^{2+} minerals. The presence of reduced-iron minerals suggests that the natural-attenuation mechanism for abiotic degradation of chlorinated VOCs may be active at this site. As demonstrated in many laboratory and field studies reviewed by USEPA (USEPA, 2009), reactive iron minerals such as iron sulfides, pyrite, magnetite, green rust, and a number of Fe(II)-containing clay minerals commonly observed in reducing environments may play a significant role degrading chlorinated solvents through abiotic mechanisms. Taken together, site geochemical conditions (neutral pH and reducing environment) may be conducive to the natural degradation of chlorinated VOCs by biotic and abiotic pathways at the study area.

4.7 DATA VALIDATION

Groundwater-sample analyses were performed according to USEPA SW-846 Method 8260B. Data were reviewed in accordance with the USEPA *National Functional Guidelines* (USEPA, 1999) and January 2005. Data packages were compiled by a New York State-certified laboratory and prepared as New York State “analytical services protocol Category B” deliverables. The review was conducted as a “NYSDEC Tier III evaluation” and included a review of data-package completeness. Field documentation was not included, but the validation-annotated sampling-result sheets and chain-of-custody documentation were. Data-usability summary reports were completed in accordance with NYSDEC DER-10 (*Technical Guidance for Site Investigation and Remediation* [May 2010]).

Data review evaluates data technically, rather than simply determining contract compliance. As such, the standards against which the data are weighed may differ from those specified in the contractually stipulated analytical method. The data package is thus presumed to represent the best efforts of the laboratory, and the data are likewise presumed to have been subjected to adequate and sufficient quality review before submission. During data review, laboratory qualified and unqualified data are verified against the supporting documentation. The data reviewer may add, delete, or modify qualifier codes. The NYSDEC ASP Category-B deliverable data review includes checks of the following:

-
- chain-of-custody forms;
 - holding times;
 - GC/MS instrument performance-checks;
 - instrument calibration;
 - trip- and/or laboratory (method)-blank detected constituents;
 - surrogate-spike recoveries;
 - matrix-spike/matrix-spike-duplicate precision and accuracy;
 - internal standards;
 - checking for transcriptions between quantitation reports and laboratory, hard-copy Form “I”s; and
 - blind-duplicate precision.

The data validator performed final validation of data obtained during field sampling and analysis. Laboratory deliverables were reviewed for accuracy, precision, completeness, and overall data quality. All laboratory data were reviewed for adherence to method-specific quality assurance/quality control (QA/QC) guidelines and the data-validation guidelines described above.

Data usability—The review classified the data as valid, usable, or unusable. Valid data are data for which all QA/QC review criteria have been met and that are acceptable (as per details outlined in the preceding section). Data were characterized as usable when QA/QC parameters were marginally outside acceptable limits (e.g., sample holding times had been slightly exceeded), such that the data may be questionable, but still usable with limitations. Unusable data are data observed to have gross errors or analytical interference that would render them invalid for any purpose. Data-usability summary reports were prepared in accordance with NYSDEC guidance and are included as Appendix G. Data qualifications resulting from validation are included in the data tables. All data reviewed are considered usable based on the validation as described above.

Figure 4-1

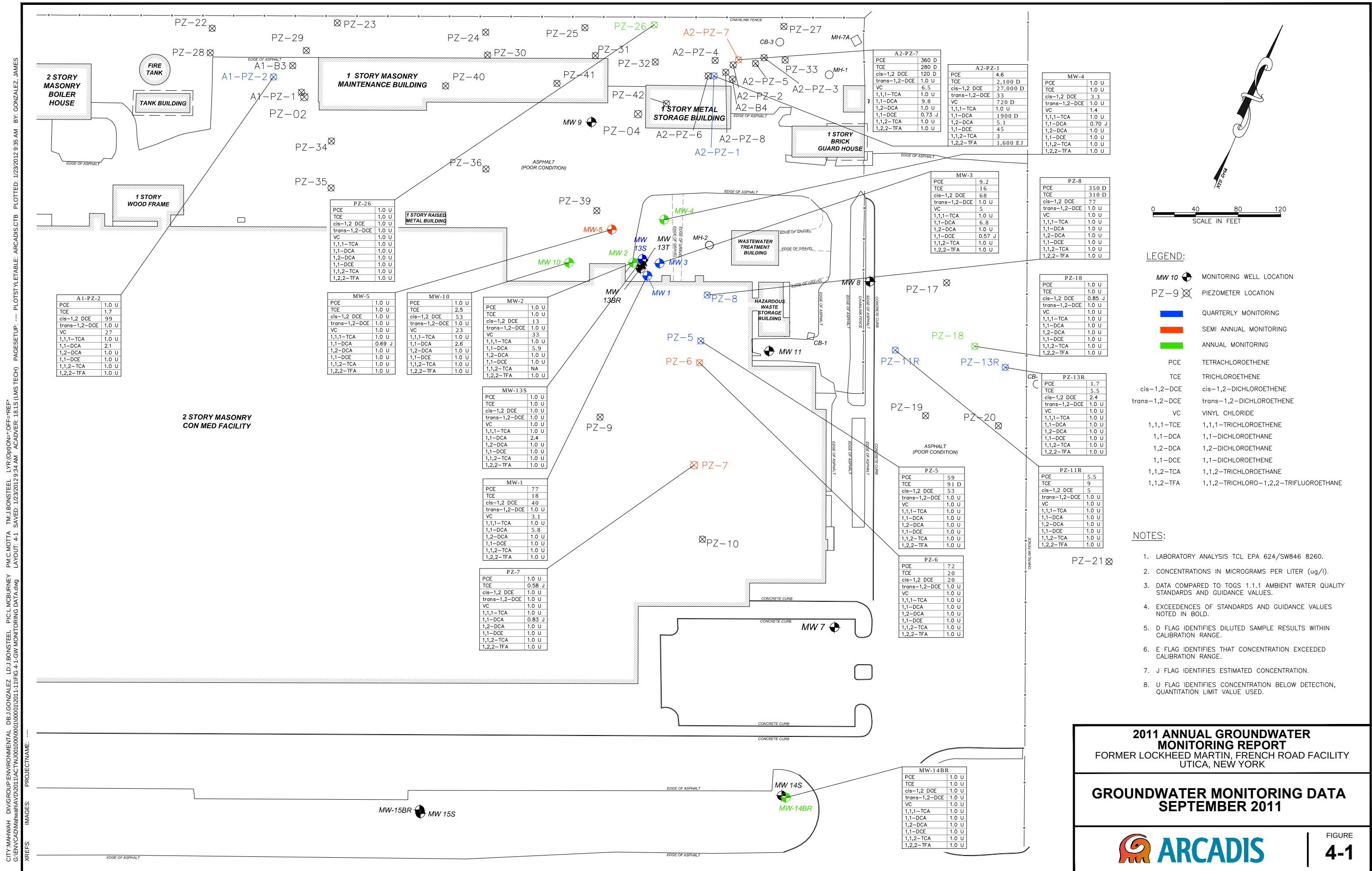
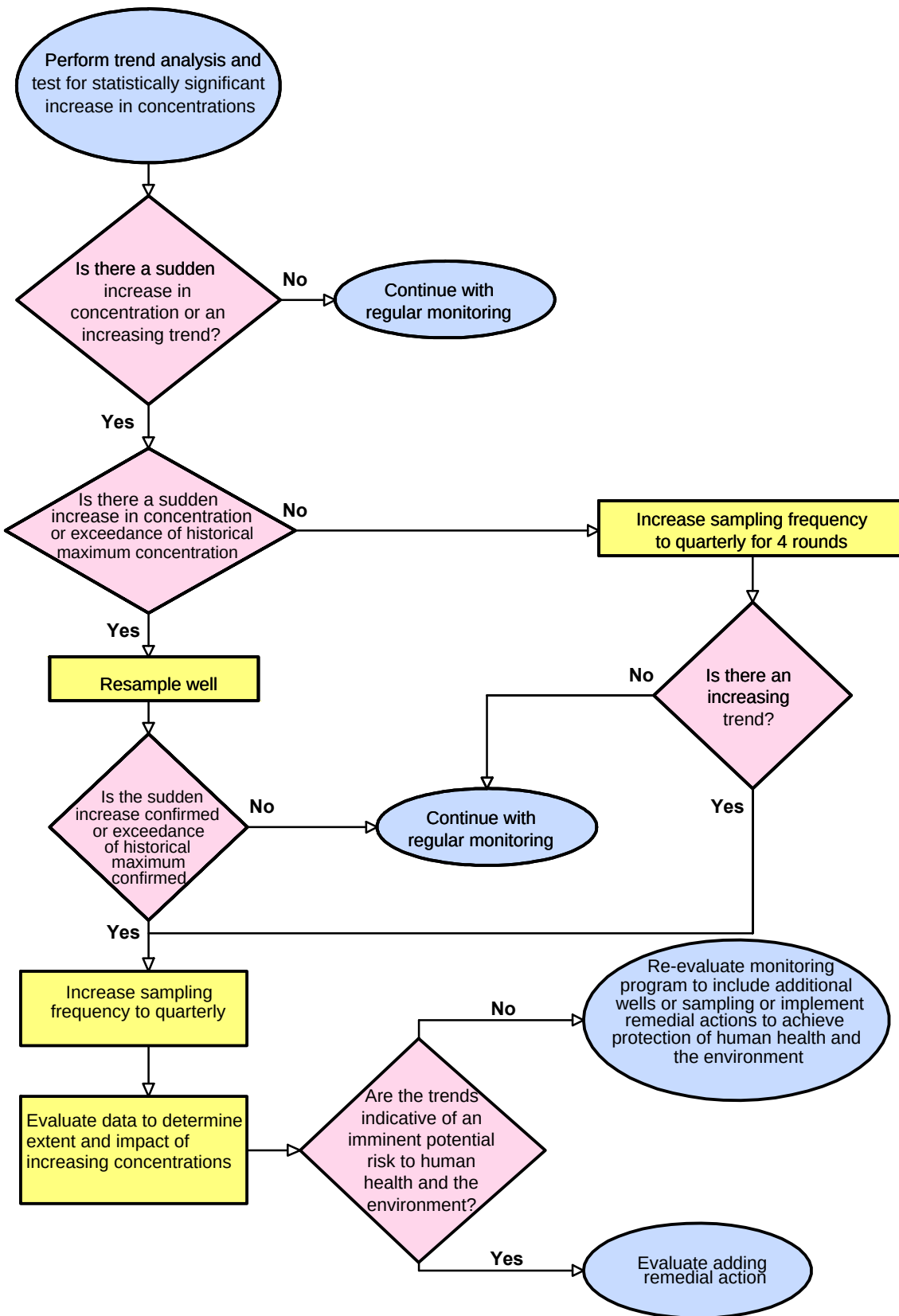


Figure 4-2

PATH: G:\ENVCAD\Mathew\NAV\2011\1\ACTN\001\000\0001\000001\2011-11\FIG 4-2-DECISION TREE - OBJECTIVE 1 LOCATIONS.DWG 1/23/2012 - 9:36:41 AM Layout: 85x11 Hor
DRAFT: J. GONZALEZ
APPROVED: E. PANHORST
CHECKED: T. HE
DRAWING: DRAWING
PROJECT NO: GP3LCAAP.HNE1
DWG DATE: 1/17/11



DECISION TREE FOR PERFORMANCE MONITORING IN OBJECTIVE 1 LOCATIONS

2011 ANNUAL GROUNDWATER MONITORING REPORT

FORMER LOCKHEED MARTIN
FRENCH ROAD FACILITY
UTICA, NEW YORK

FIGURE

4-2

Figure 4-3a

Figure 4-3a: Volatile Organic Compound Concentrations in Well MW-1, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

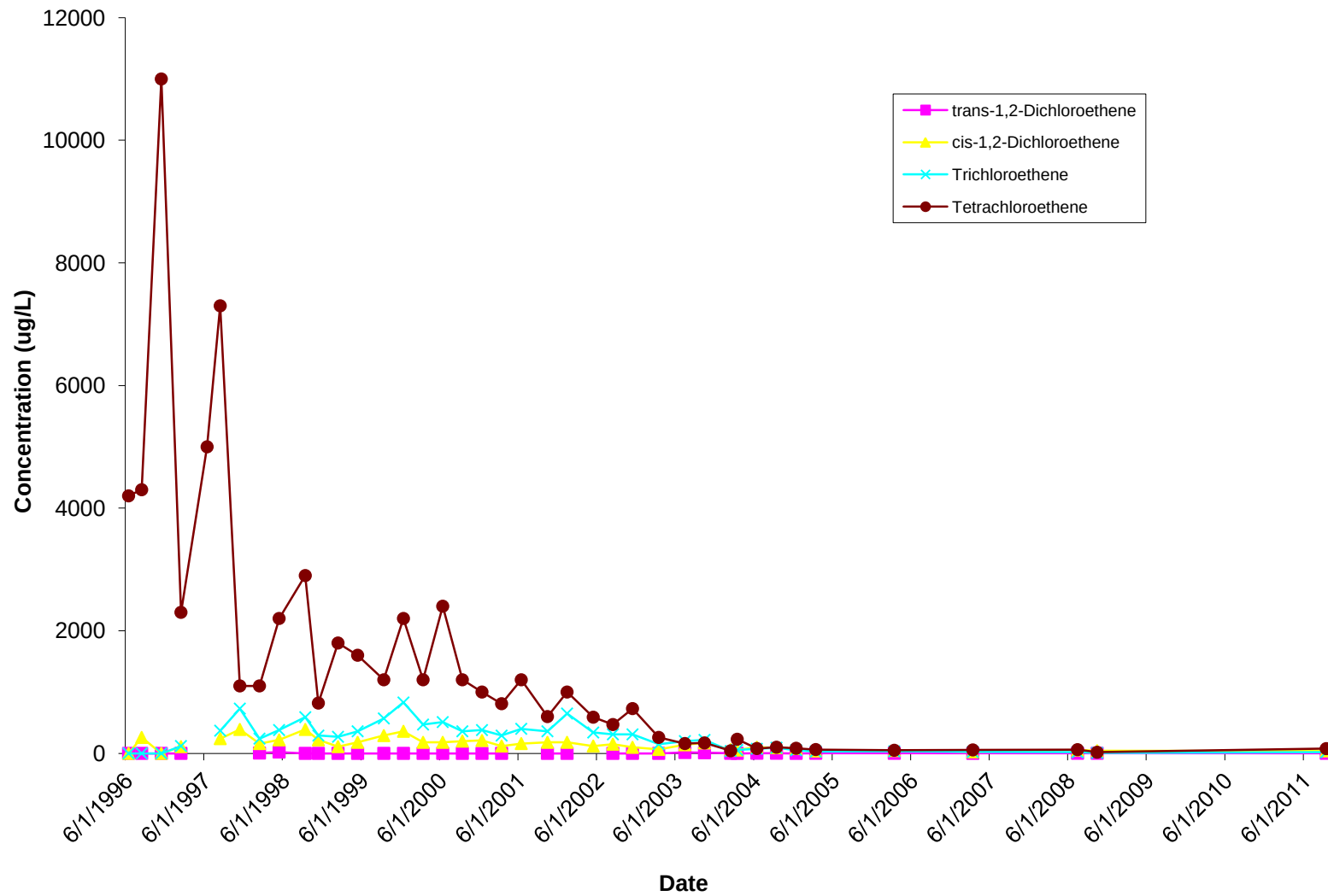


Figure 4-3b

Figure 4-3b: Volatile Organic Compound Concentrations in Well MW-1, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

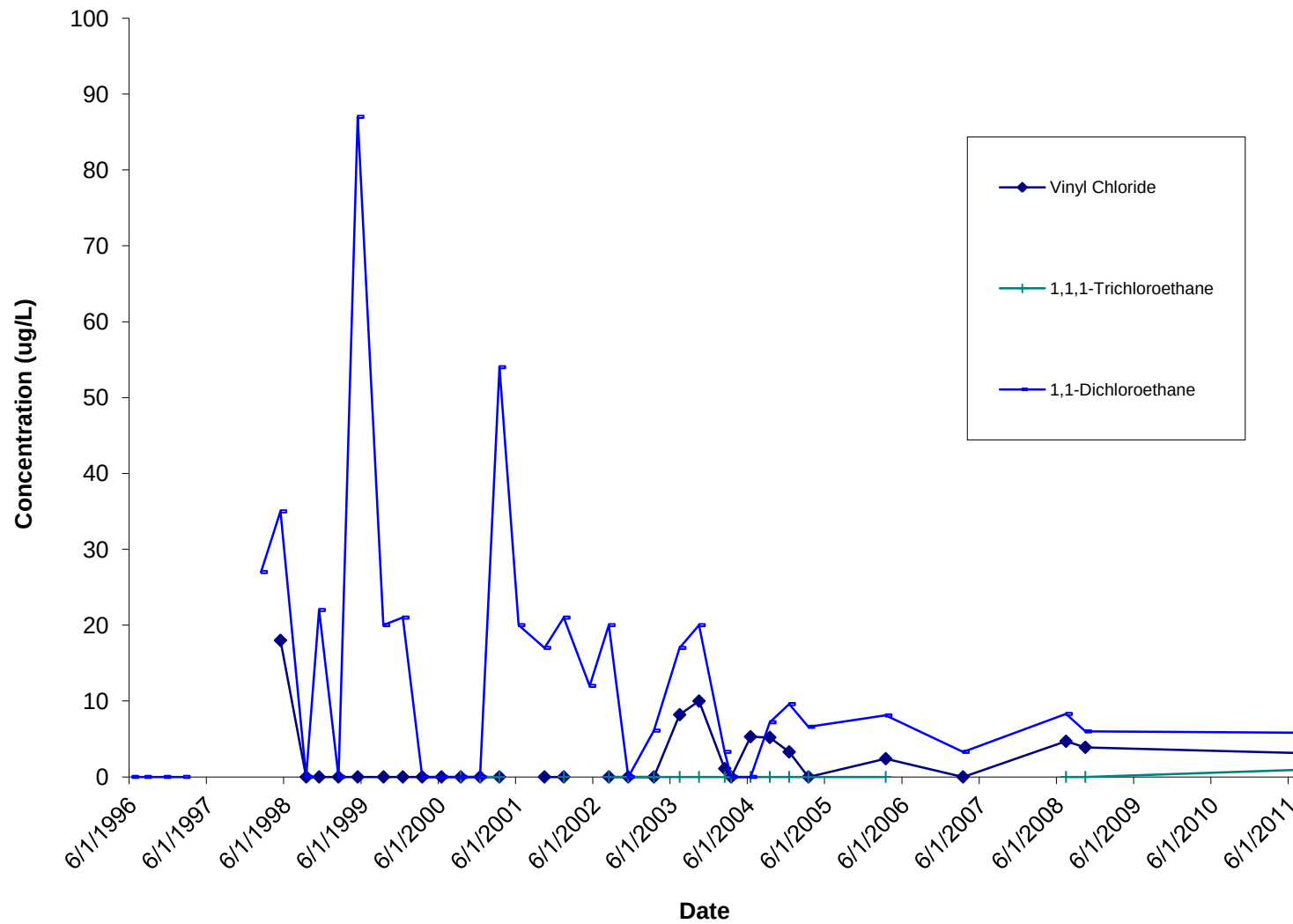


Figure 4-3c

Figure 4-3c: Volatile Organic Compound Concentrations in Well MW-3, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

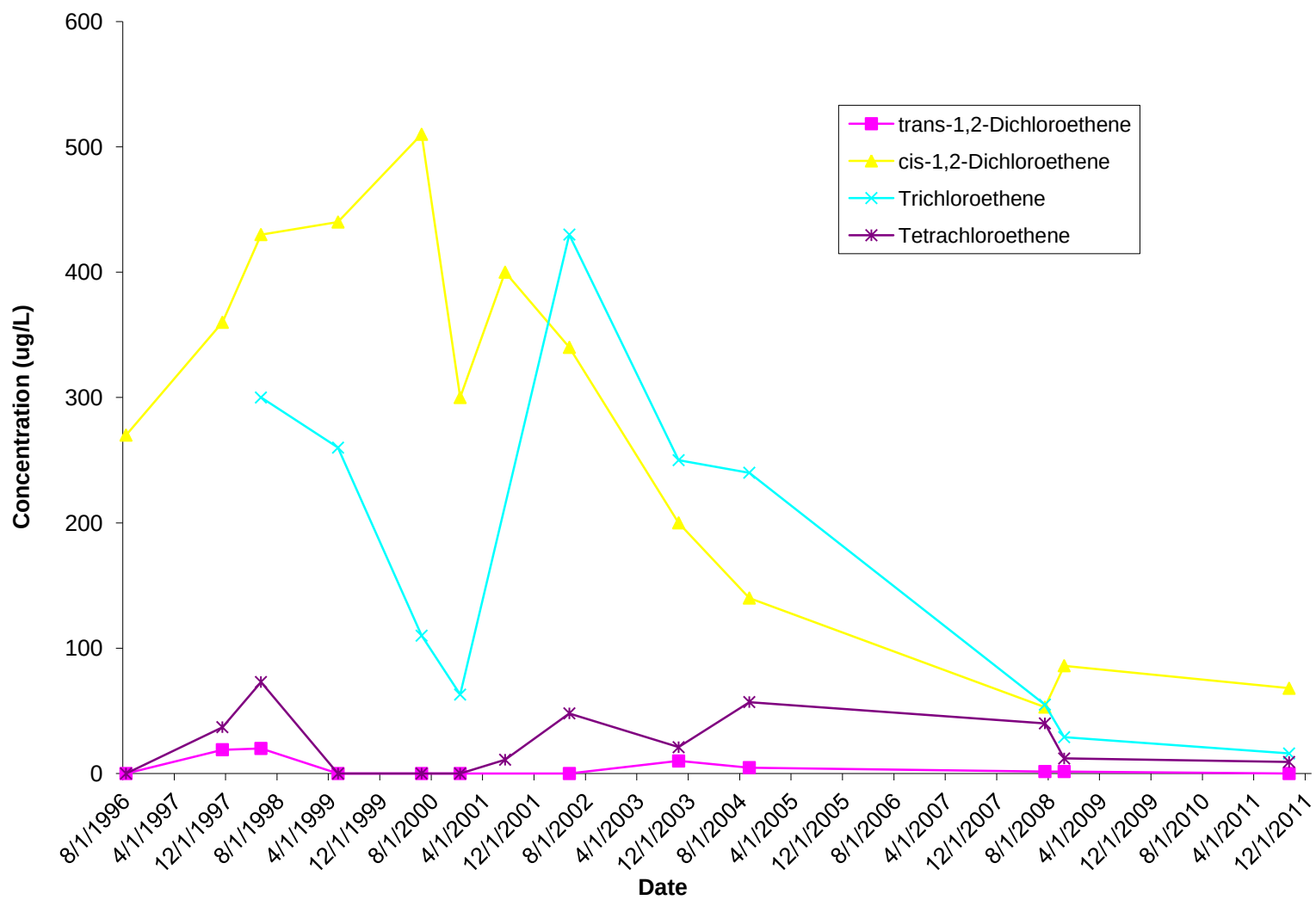


Figure 4-3d

Figure 4-3d: Volatile Organic Compound Concentrations in Well MW-3, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

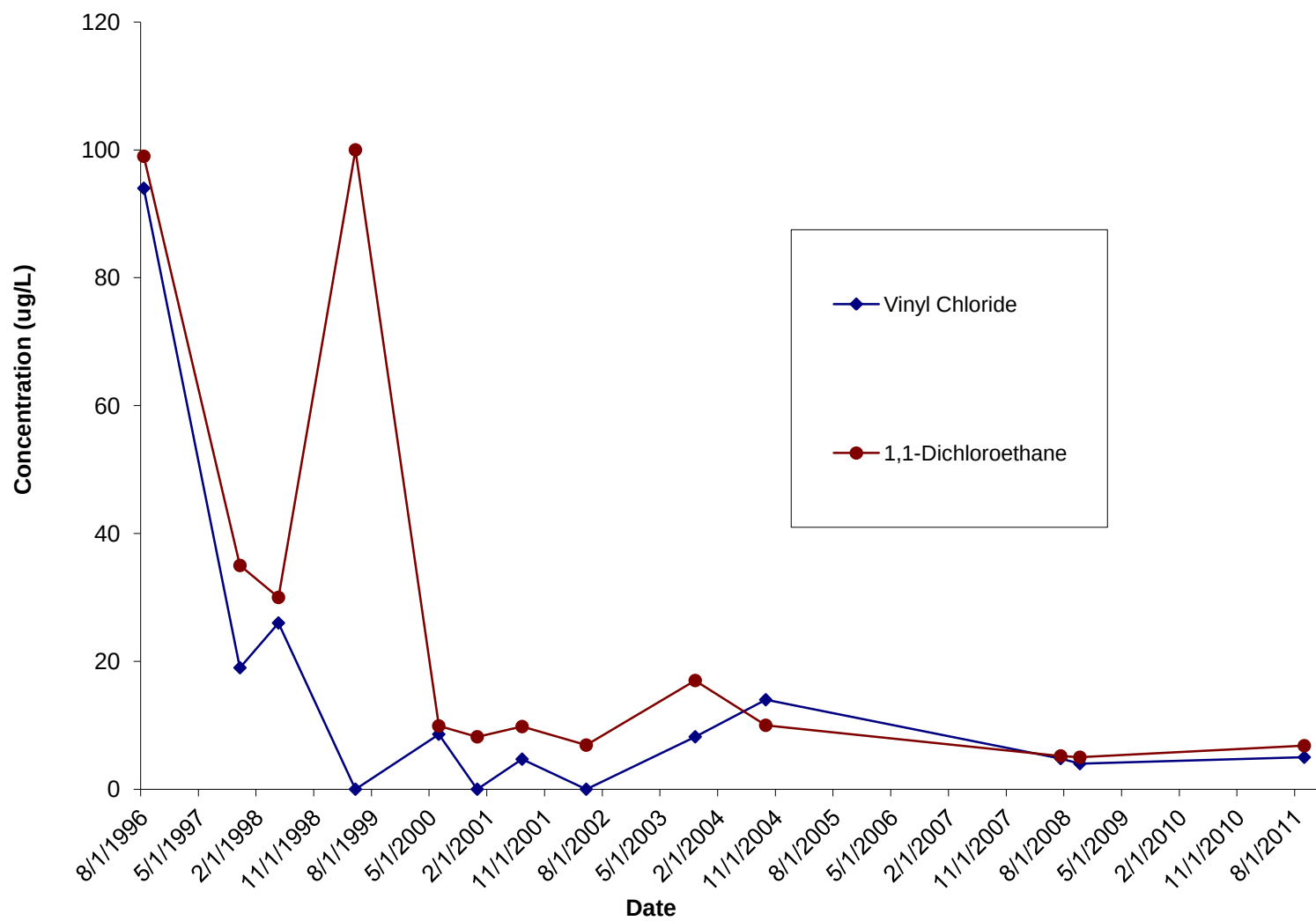


Figure 4-3e

Figure 4-3e: Volatile Organic Compound Concentrations in Well PZ-5, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

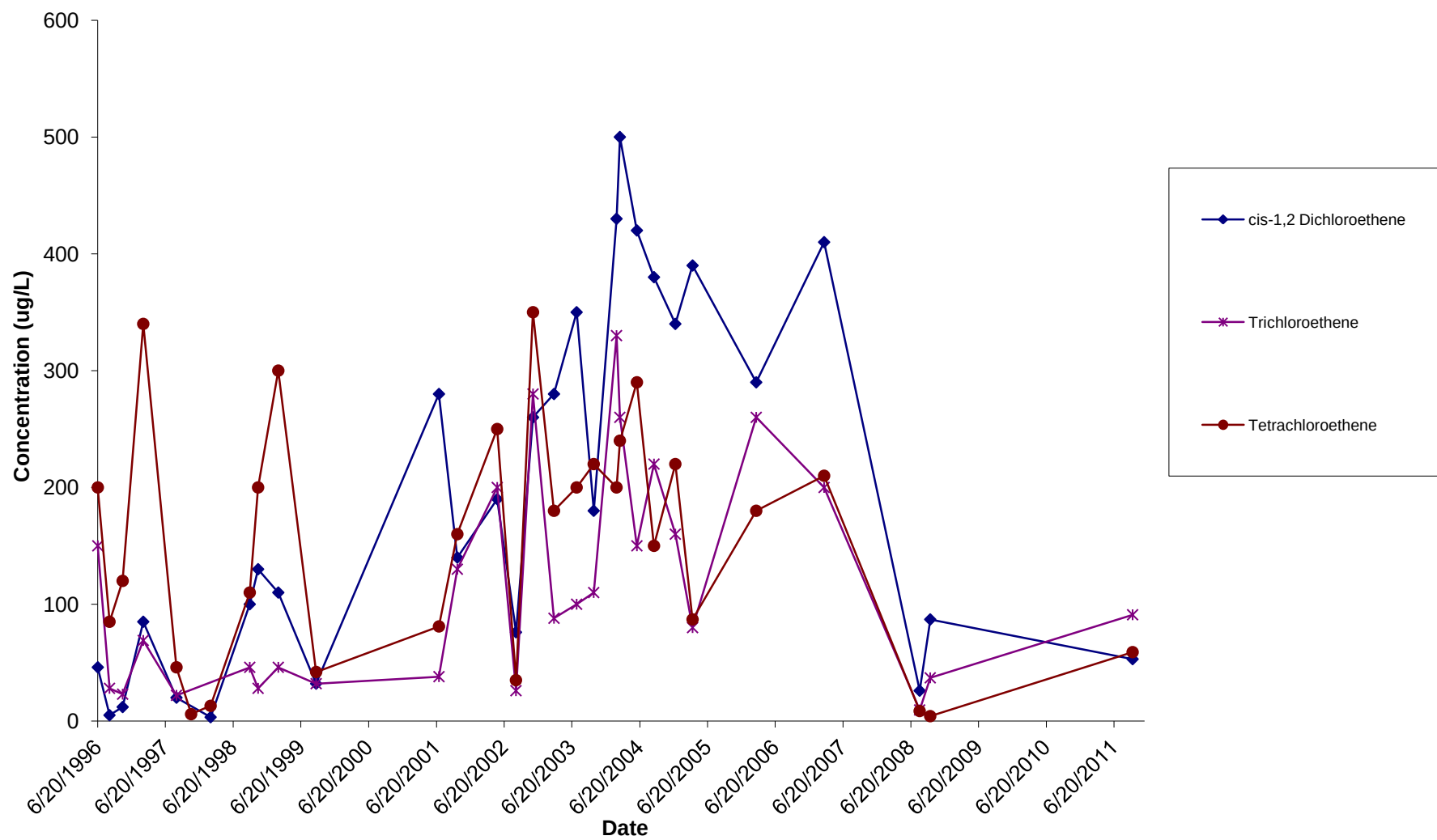


Figure 4-3f

Figure 4-3f: Volatile Organic Compound Concentrations in Well PZ-5, Solvent Dock Area, Former Lockheed Martin Facility, Utica, New York.

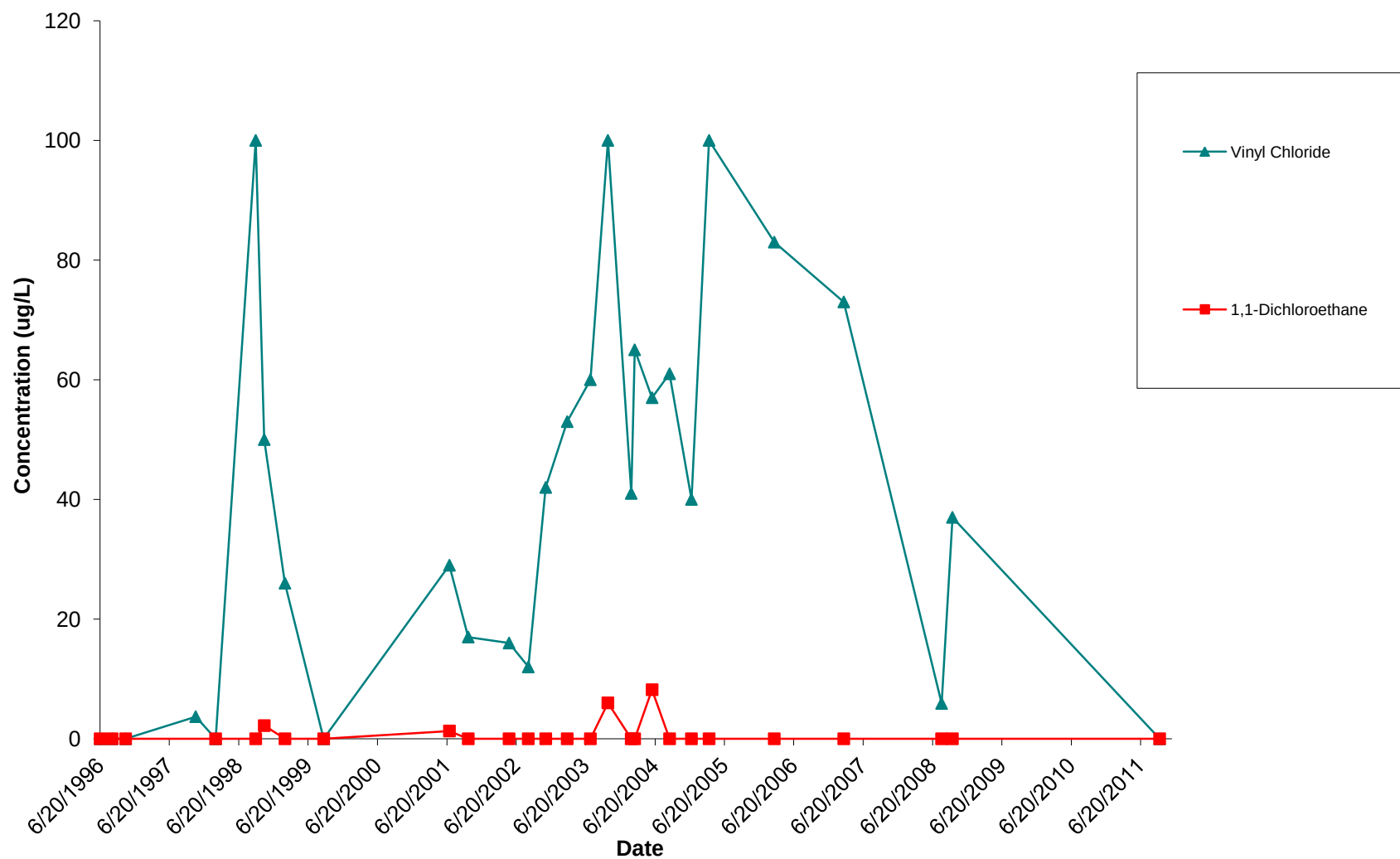


Table 4-1

Table 4-1
Groundwater Monitoring Data - September 2011
Former Lockheed Martin French Road Facility
Utica, New York

NYSDEC TOGS Guidance Value	Wells ID	Tetrachloroethene	Trichloroethene	cis-1,2 Dichloroethene	trans 1,2-Dichloroethene	Vinyl Chloride	1,1,1,1-Trichloroethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	1,1,2,2-Trichloroethane	1,1,2-trichloro-1,2,2-trifluoroethane
		5	5	5	5	2	5	5	0.6	5	1	5
Objective 1	MW-1	77	18	40	1.0 U	3.1	1.0 U	5.8	1.0 U	1.0 U	1.0 U	1.0 U
	MW-3	9.2	16	68	1.0 U	5	1.0 U	6.8	1.0 U	0.57 J	1.0 U	1.0 U
	PZ-6	72	20	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-5	59	91 D	53	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-8	350 D	290 D	77	1.0 U	1.0 U	1.0 U	4.8	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-11R	5.5	9	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-13R	1.7	5.5	2.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	A1-PZ-2	1.0 U	1.7	99	1.0 U	27	1.0 U	2.1	1.0 U	1.0 U	1.0 U	1.0 U
	A2-PZ-1	4.6	2100 D	27000 D	33	720 D	1.0 U	1900 D	5.1	45	3	1600 E J
	A2-PZ-7	360 D	280 D	120 D	1.0 U	6.5	1.0 U	9.8	1.0 U	0.73 J	1.0 U	1.0 U
Objective 2	MW-5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U
	MW-13S	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.4	1.0 U	1.0 U	1.0 U	1.0 U
	MW-14BR	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-18	1.0 U	1.0 U	0.85 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-26	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Objective 3	MW-2	1.0 U	1.0 U	13	2.0	33	1.0 U	5.9	1.0 U	1.0 U	1.0 U	1.0 U
	MW-4	1.0 U	1.0 U	3.3	1.0 U	1.4	1.0 U	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U
	PZ-7	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U
	MW-10	1.0 U	2.5	53	3.4	23	1.0 U	2.6	1.0 U	1.0 U	1.0 U	1.0 U

Note:

1. B = Indicates an estimated value between the instrument detection limit and the Reporting Limit (RL).
2. D = Diluted sample result within calibration range
3. E = Analyte exceeded calibration range.
4. J = Indicates an estimated value.
5. NYSDEC TOGS = New York State Department of Environmental Conservation Technical and Operational Guidance Series
6. U = The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Table 4-2

Table 4-2
Summary of Mann-Kendall Trend Analysis of Groundwater Analytical Data
Former Lockheed Martin French Road Facility
Utica, New York

Well	Constituent	Cleanup Goal (µg/L) ^a	Data Range						Mann-Kendall Analysis Results			Sudden Increase Evaluation				
			Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Most Recent Result (µg/L)	Start Date	End Date	Comparison of Most Recent data with Historic Maximum	p-Value of Correlation ^b	Significance of Trend	Trend Direction	Number of Data Points	Mean	STD DEV	Mean+3*STDEV	September 2011 Results
MW-1	PCE	5.0	18	100	77	9/15/2004	1/0/1900	Less than	0.089	SIGNIFICANT	DECREASING TREND	8	63.25	24.55	136.89	No Sudden Increase
MW-1	TCE	5.0	8	92	18	9/15/2004	9/28/2011	Less than	0.002	SIGNIFICANT	DECREASING TREND	8	34.08	26.73	114.25	No Sudden Increase
MW-1	Cis-1,2-DCE	5.0	25	92	40	9/15/2004	9/28/2011	Less than	0.089	SIGNIFICANT	DECREASING TREND	8	52.25	22.33	119.25	No Sudden Increase
MW-1	VC	2.0	1	5	3.1	9/15/2004	9/28/2011	Less than	0.406	NO SIGNIFICANT TREND	NA	8	3.05	1.59	7.744	No Sudden Increase
MW-1	1,1-DCA	5.0	3	10	5.8	9/15/2004	9/28/2011	Less than	0.138	NO SIGNIFICANT TREND	NA	8	6.86	1.92	12.626	No Sudden Increase
MW-3	PCE	5.0	1	57	9.2	12/27/2000	9/28/2011	Less than	0.452	NO SIGNIFICANT TREND	NA	8	24.90	20.65	86.846	No Sudden Increase
MW-3	TCE	5.0	16	430	16	6/19/2000	9/28/2011	Less than	0.043	SIGNIFICANT	DECREASING TREND	8	149.13	145.05	584.29	No Sudden Increase
MW-3	Cis-1,2-DCE	5.0	53	400	68	12/27/2000	9/28/2011	Less than	0.007	SIGNIFICANT	DECREASING TREND	8	198.38	133.74	599.6	No Sudden Increase
MW-3	Trans-1,2-DCE	5.0	1	10	1.0 U	6/19/2000	9/28/2011	Less than	0.360	NO SIGNIFICANT TREND	NA	8	2.99	3.36	13.071	No Sudden Increase
MW-3	VC	2.0	1	14	1.0 U	12/27/2000	9/28/2011	Less than	0.169	NO SIGNIFICANT TREND	NA	8	5.34	4.20	17.936	No Sudden Increase
MW-3	1,1-DCA	5.0	5	10	6.8	12/27/2000	9/28/2011	Less than	0.138	NO SIGNIFICANT TREND	NA	8	8.61	3.87	20.219	No Sudden Increase
PZ-5	PCE	5.0	4	220	59	9/15/2004	9/28/2011	Less than	0.089	SIGNIFICANT	DECREASING TREND	8	114.85	87.03	375.93	No Sudden Increase
PZ-5	TCE	5.0	9.5	260	91	9/15/2004	9/28/2011	Less than	0.138	NO SIGNIFICANT TREND	NA	8	132.19	90.99	405.15	No Sudden Increase
PZ-5	Cis-1,2-DCE	5.0	26	410	53	9/15/2004	9/28/2011	Less than	0.089	SIGNIFICANT	DECREASING TREND	8	247.00	163.57	737.7	No Sudden Increase
PZ-5	VC	2.0	1	100	1.0 U	9/15/2004	9/28/2011	Less than	0.054	SIGNIFICANT	DECREASING TREND	8	50.11	35.56	156.81	No Sudden Increase

Notes:

- ^a NYSDEC TOGS 1,1,1 Water guidance values.
^b p-value of 0.1 or less is accepted as significant (90% confidence interval).
1. cis-1,2-DCE = cis-1,2-dichloroethene
2. PCE = tetrachloroethene
3. Trans-1,2-DCE = trans-1,2-dichloroethene
4. U = below
5. VC = vinyl chlooride
6. 1,1-DCA = 1,1-dichloroethane
7. µg/L = micrograms per liter

Table 4-3

Table 4-3
Groundwater Sampling Field Parameters and Geochemistry Analysis Results - September 2011
Former Lockheed Martin French Road Facility
Utica, New York

	Well ID	pH (s.u.)	Specific Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Ferrous Iron (mg/L)	Methane (µg/L)	NO ₃ -N (mg/L)	Sulfate (mg/L)	Total Alkalinity (mg/L)
Objective 1	MW-1	6.92	1.764	0.24	121.2	0.01	130 J	0.73	166	338
	MW-3	6.93	1.966	0.71	89.6	--	57	0.091	160	356
	PZ-6	7.11	1.666	1.70	12.4	--	--	--	--	--
	PZ-5	7.79	1.372	0.85	-139.2	--	--	--	--	--
	PZ-8	6.76	1.316	0.89	73.7	--	--	--	--	--
	PZ-11R	7.24	3.222	0.60	33.0	--	--	--	--	--
	PZ-13R	6.70	7.593	0.04	-28.2	--	120 D	0.063	42.1	390
	A1-PZ-2	6.90	2.397	1.31	-96.0	0.47	710 D	0.05 U J	5.0 U B	425
	A2-PZ-1	6.90	1.271	0.43	-48.4	0.35	1200 D	0.05 U	36.2	482
	A2-PZ-7	6.89	0.978	4.52	46.8	--	--	--	--	--
Objective 2	MW-5	6.81	9.422	0.03	-55.1	--	--	--	--	--
	MW-13S	6.97	1.756	1.52	83.2	--	--	--	--	--
	MW-14BR	9.67	8.862	1.90	-27.4	--	--	--	--	--
	PZ-18	6.78	6.487	0.12	-17.9	--	--	--	--	--
	PZ-26	7.72	0.636	0.08	-55.6	--	--	--	--	--
Objective 3	MW-2	7.29	1.831	0.60	-122.4	--	--	--	--	--
	MW-4	6.83	1.729	0.57	68.8	--	--	--	--	--
	PZ-7	7.18	1.389	1.81	-20.0	--	--	--	--	--
	MW-10	7.30	1.751	0.09	-145.3	0.87	97 D	0.05 U	108	211
Others	PZ-27	6.95	1.082	1.52	-24.0	--	--	--	--	--

Notes:

1. B = Indicates an estimated value between the instrument detection limit and the Reporting Limit (RL).
2. D = Diluted sample result within calibration range
3. DO = dissolved oxygen
4. J = Indicates an estimated value.
5. mg/L = milligrams per liter
6. mS/cm = milliSiemens per centimeter
7. mV = millivolts
8. NO₃⁻ = nitrate
9. ORP = oxygen reduction potential
10. s.u. = standard units

This page intentionally left blank.

Section 5

Summary and Conclusions

Analysis of monitoring data collected in September 2011 along with historical site data leads to the following conclusions:

- Chlorinated volatile organic compounds are the predominant constituents detected in Objective 1 wells at concentrations greater than regulatory standards and guidance values. Detected constituents are similar to those identified in earlier investigations; however, concentrations at piezometer A2-PZ-1 are greater than those reported historically at the site.
- Analytical results for Objective 1 wells show generally decreasing trends for constituents of concern in MW-1, MW-3, and PZ-5, based on the Mann-Kendall analysis. No sudden increase in constituent of concern concentrations was observed, and data from the September 2011 sampling event do not exceed historical maximum concentrations detected at the site.
- Monitoring results for Objective 2 wells show that all constituents of concern are below their respective cleanup targets, indicating that contaminants are not migrating to uncontaminated areas of the site.
- Analytical results for Objective 3 wells show that concentrations of several constituents of concern in MW-2 (cis-dichloroethene (cis-DCE), vinyl chloride, and 1,1-Dichloroethane) and in MW-10 (cis-DCE and vinyl chloride) remain above the cleanup target. Proper personal protective equipment should be used for any subsurface work conducted in these areas.
- Groundwater-elevation data for Objective 4 wells indicate that local groundwater flows south-southeast. This is consistent with historical site observations. Therefore, no change has been observed in the direction of groundwater flow that might alter the basis of the assumptions used to develop the monitored natural attenuation plan.
- Geochemistry data from field sampling indicate a possibly moderately reducing environment (though not uniform across the site) at the study area. The geochemical conditions (neutral pH, reducing chemistry) at the study area may be conducive to biotic and abiotic degradations of chlorinated volatile organic compounds. These are the fundamental mechanisms behind the monitored natural attenuation remedy at this site.
- Monitoring results from the September 2011 sampling indicate that the monitored natural attenuation plan is working as expected. We recommend no changes in the monitoring program.

This page intentionally left blank.

Section 6

References

1. ARCADIS, 2008. *Solvent Dock Area and West Lot Site, Site-Specific Health and Safety Plan, Former Lockheed Martin French Road Facility, Utica, New York*. Last revision. November.
2. ARCADIS, 2009. *Corrective Measures Study Report, Former Lockheed Martin French Road Facility, Utica, New York*. March.
3. ARCADIS, 2009. *Quality Assurance Project Plan, Former Lockheed Martin French Road Facility, Utica, New York*. October.
4. ARCADIS, 2010. *Supplemental Investigation Report, Former Lockheed Martin French Road Facility, Utica, New York*. January.
5. ARCADIS, 2011. *Former Northern Perimeter Ditch Supplemental Investigation Report, Former Lockheed Martin French Road Facility, Utica, New York*. March.
6. ARCADIS, 2011. *Draft Monitored Natural Attenuation Plan, Former Lockheed Martin French Road Facility, Utica, New York*. Revised March 2011.
7. ARCADIS, 2011. *Feasibility Study Report, Former Northern Perimeter Ditch, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York*. June.
8. BBL, 1995a. *Storm-Sewer Investigation Report, Former Lockheed Martin French Road Facility, Utica, New York*. May.
9. BBL, 1995b. *Phase I Environmental Site Assessment, Former Lockheed Martin French Road Facility, Utica, New York*. October.
10. BBL, 1995c. *Ground-Water Collection and Treatment System, Supplemental Information, Former Lockheed Martin French Road Facility, Utica, New York*. November.
11. BBL, 1995d. *Storm-Sewer Basis of Design Report, Former Lockheed Martin French Road Facility, Utica, New York*.
12. BBL, 1995e. *French Road Facility Ground-Water Collection and Treatment System, Utica, New York*. October.
13. BBL, 1998. *Solvent Dock and Northern-Perimeter Ditch Area, Ground-Water Sampling and Analysis Work Plan, Former Lockheed Martin French Road Facility, Utica, New York*. June 1996, Revised February 1998.

-
14. NYSDEC, 1998. *Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values*. June.
 15. NYSDEC, 2008. *Order on Consent Index Number CO 6-200080321-5*. October 3.
 16. NYSDEC, 2010. *DER-10, Technical Guidance for Site Investigation and Remediation*. May.
 17. Suthersan, Suthan S. and Payne, Fred C. 2005. *In Situ Remediation Engineering*. CRC Press.
 18. USEPA, 1999. "Directive 9200.4-17P." Office of Solid Waste and Emergency Response (OSWER).
 19. USEPA, 2006. *USEPA Guidance on Data-Quality Assessment—Practical Methods of Data Analysis (EPA/240/B-06/003)*. February.
 20. USEPA, 2009. *Identification and Characterization Methods for Reactive Minerals Responsible for Natural Attenuation of Chlorinated Organic Compounds in Groundwater*, EPA600-R09/115.
 21. USEPA, 2009. *Field Measurement of Oxidation-Reduction Potential (ORP)*. U.S. Environmental Protection Agency, Region 4. Science and Ecosystem Supports Division. Athens, Georgia.
<http://www.epa.gov/region4/sesd/fbqstp/Field-Measurement-of-ORP.pdf> (accessed November 16, 2011).

**APPENDIX A—
HISTORICAL DATA FOR THE
LOCKHEED MARTIN UTICA SITE, 1996–2008**

Appendix A: Historic data through 2008
Former Lockheed Martin, French Road Facility, Utica, New York

		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene	Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichlorofluoromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane
MW-1	NYSDEC TOGS	5	5	5	5	2	5	5	1	5	7	5	5	5	5	0.7	3	3			5	50		5
	Jun-96	4200	0	0	0	0	--	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Aug-96	4300	0	0	0	0	--	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-96	11000	0	0	0	--	--	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-97	2300	120	0	110	--	--	0	0	62	73	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-97	--	--	--	--	--	--	--	--	--	--	5000	--	--	--	--	--	--	--	--	--	--	--	
	Aug-97	7300	370	--	240	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-97	1100	730	--	390	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-98	1100	240	5.5	160	--	--	27	0.24	6.6	0	--	--	--	--	--	--	--	--	--	--	--	--	
	May-98	2200	380	22	220	18	--	35	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-98	2900	590	0	390	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-98	820	290	0	220	0	--	22	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-99	1800	270	0	110	0	--	110	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	May-99	1600	360	0	180	0	--	87	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-99	1200	570	0	290	0	--	20	0.48	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Dec-99	2200	830	0	360	0	--	21	0.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Mar-00	1200	470	0	180	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-00	2400	510	--	180	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-00	1200	360	0	260	0	--	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Dec-00	1000	380	0	210	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Mar-01	810	290	0	120	0	0	54	--	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Jun-01	1200	400	--	160	0	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Oct-01	600	360	0	180	0	--	17	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Jan-02	1000	650	0	180	0	--	21	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	May-02	590	340	--	120	--	0	12	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	
	Aug-02	470	310	0	150	0	0	20	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Nov-02	730	310	0	99	0	0	0	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Mar-03	260	150	0	64	0	0	6.1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Jul-03	160	200	1.4	140	8.2	--	17	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Oct-03	170	220	9.6	170	10	0	20	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Feb-04	42	38	1.00	61.00	1.10	0	3.30	8	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Mar-04	230	55	0	54	0	0	8	8	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Jun-04	79	75	2.6	100	5.3	0	10	8	--	--	--	0	--	--	--	--	--	--	--	--	--	--	
	Sep-04	100	92	2.2	92	5.2	0	92	7.2	0	--	--	0	--	--	--	--	--	--	--	--	--	--	
Dec-04	83	51	0	79	3.3	0	9.6	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--		
Mar-05	62	30	1.4	39	0	0	6.6	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--		
Mar-06	50	33	1.1	46	2.4	0	8.1	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--		
Mar-07	56	23	0.55	25	0	--	3.3	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Jul-08	60	18	7.6	54	4.7	0	8.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Oct-08	18	7.6	1.6	43	3.9	0	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
MW-2	Aug-96	0	0	17	250	76	--	36	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Nov-97	25	47	--	210	93	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	May-98	48	63	17	140	64	2.5	55	0	--	--	2.1	--	--	--	--	--	--	--	--	--	--		
	May-99	0	68	0	170	84	0	81	0.74	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Jun-00	0	4.3	94	98	47	0	94	0	--	--	0	--	--	--	--	--	--	--	--	--	--		
	Dec-00	0	29	2.7	120	27	0	20	0	--	--	0	4.1	--	--	--	--	--	--	--	--	--		
	Jul-01	--	--	5.4	110	35	--	28	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	May-02	--	1.8	2.9	33	33	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Oct-03	--	0.39	5	37	79	--	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Sep-04	0	0	3.4	36	78	0	14	--	--	--	--	0	--	--	--	--	--	--	--	--	--		
Jul-08	0	0.62	2.1	12	36	0.57	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
Oct-08	0	0	2.1	11	28	0	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
MW-3	Aug-96	0	--	0	270	94	--	99	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Nov-97	37	--	19	360	19	--	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	May-98	73	300	20	430	26	--	30	0	--	--	--	--	0.36	--	--	--	--	--	--	--			
	May-99	0	260	0	440	0	--	100	0.71	--	--	--	--	0.49	--	--	--	--	--	--	--			
	Jun-00	0	110	0	510	8.6	--	9.9	0	--	--	--	--	0	--	--	--	--	--	--	--			
	Dec-00	0	63	0	300	0	--	9.2	0	--	--	--	--	0	--	--	--	--	--	--	--			
	Jul-01	11	--	--	400	4.7	--	9.8	0	--	--	--	--	0	--	--	--	--	--	--	--			
	May-02	48	430	0	340	0	--	6.9	0	--	--	--	--	0	--	--	--	--	--	--	--			
	Oct-03	21	250	10	200	8.2	--	17	--	--	--	--	--	17	--	--	--	--	--	--	--			
	Sep-04	57	240	4.7	140	14	--	10	0	--	--	--	--	0	--	--	--	--	--	--	--			
Jul-08	40	55	1.6	53	4.8	--	5.2	--	--	--	--	--	--	--	--	--	--	--	--	--				
Oct-08	12	29	1.6	86	4	--	5	0	--	--	--	--	0	--	--	--	--	--	--	--				
MW-4	Aug-96	--	--	--	--	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Nov-97	--	--	--	--	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	May-98	--	0	--	1	3.5	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--			
	May-99	--	1.1	--	3.6	4.1	--	1.3	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Jun-00	--	0	--	0	2.7	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Dec-00	--	0	--	3.2	2.6	--	0.55	--	--	--	--	2.6	--	--	--	--	--	--	--	--			
	Jul-01	--	--	--	1.2	3.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
	May-02	--	0	--	1.1	4	--	0	--	--	--	--	0	--	--	--	--	--	--	--	--			
	Oct-03	--	0	--	5.7	4.4	--	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Sep-04	--	0	--	7.4	6.4	--	1.2	--	--	--	--	0	--	--	--	--	--	--	--	--			
Jul-08	--	0	--	4.6	2	--	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--				
Oct-08	--	0	--	7.1	3.2	--	1.9	--	--	--	--	0	--	--	--	--	--	--	--	--				
MW-9	May-98	--	--	--	0.29	8.8	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--			
	May-99	--	--	--	1.1	2.1	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Jun-00	--	--	--	0.22	1.1	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Jul-01	--	--	--	0.29	2.7	--	0.32	--	--	--	--	--	--	--	--	--	--	--	--	--			
	May-02	--	--	--	0.52	4.4	--	0.22	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Oct-03	--	--	0.42	1.8	0.58	--	0.92	--	--	--	1.4	--	--	--	--	--	--	--	--	--			
	Sep-04	--	--	0	2	1.4	--	0.9	--	--	--	0.62	--	--	--	--	--	--	--	--	--			
	Oct-08	--	--	1.2	2.5	7.8	--	0.88	--	--	--	--	--	--	--	--	--	--	--	--	--			
Jul-08	0	0	0	0	0	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--				
MW-10	Jun-96	--	0	67	1100	260	0	61	--	0	0	0	--	--	0	0	--	--	--	--	--	--		
	Aug-96	--	0	0	1700	300	0	120	--	0	0	0	--	--	0	0	--	--	--	--	--	--		
	Nov-96	--	0	37	540	200	0	82	--	0	0	0	--	--	0	0	--	--	--	--	--			
	Feb-97	--	12	--	500	110	16	250	--	14	9	20	--	--	0	4	--	--	--	--	--			
	Jun-97	--	12	--	450	140	--	170	--	--	--	--	--	--	--	--	--	--	--	--	--			
	Aug-97	--	0	42	430	320	0	280	--	--	--	0	--	--	--	--	--	--	--	--	--			
	Nov-97	--	--																					

Appendix A: Historic data through 2008
Former Lockheed Martin, French Road Facility, Utica, New York

Location		Tetrachloroethene	Trichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Benzene	Methylene Chloride	Chloroform	Chloroethane	Toluene	Chlorobenzene	Ethylbenzene	1,1-Dichloroethene	1,2-Dichlorobenzene	1,4-Dichlorobenzene	m-Xylene	o-Xylene	Trichlorofluoromethane	Bromodichloromethane	Dibromochloromethane	1,1,2,2-Tetrachloroethane	
NYSDEC TOGS		5	5	5	5	2	5	5	1	5	7	5	5	5	5	0.7	3	3			5	50		5	
	Oct-03	--	6.2	11	210	66	--	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-04	--	4.50	4.40	82	21	0	27	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Mar-04	--	0	0.64	7.3	3	0	12	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-04	--	11	10	140	34	0	29	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Sep-04	--	7.2	6.2	130	45	0	22	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Dec-04	--	2.6	3.1	59	21	0	18	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Mar-05	--	3.5	3.3	64	21	0	21	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Mar-06	--	3.1	3.8	57	29	0	11	--	--	--	0	--	--	0	--	--	--	--	--	--	--	--	--	
	Mar-07	--	1.9	2.8	43	22	0	5.9	--	--	--	0	--	--	--	0.7	--	--	--	--	--	--	--	--	
Jul-08	--	3.9	3.3	41	38	--	6.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Oct-08	--	1.7	1.6	25	22	--	2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
PZ-2	Jun-96	0	0	--	28	14	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Aug-96	0	0	--	0	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-96	0	0	--	15	11	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-97	0	1.2	--	12	11	--	0	--	4.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-97	--	--	--	16	17	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Aug-97	12	6	--	9	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-97	6	--	--	--	4.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-98	52	13	--	20	7.3	--	0.44	--	0.68	--	0	--	0	--	--	0	--	0	--	--	--	--	--	
	May-98	1.3	1.2	1.2	14	14	--	0.28	--	0	--	0.8	0	--	--	--	22	0	0	0	0	--	--	--	
	Sep-98	0	0	0	2	0	--	0	--	0	--	0	1.9	--	--	--	36	0	0	0	0	--	--	--	
	Nov-98	0.78	0.53	0	0.96	0.75	--	0	--	0	--	0	1.9	--	--	--	7.6	0	2.4	9	--	--	--	--	
	Feb-99	1.3	1.2	0	2	2.2	--	0.21	--	0	--	0	2.8	--	--	--	11	0.43	0.61	0.51	--	--	--	--	
	May-99	1	1.4	0.22	1.6	1.3	--	1.1	--	0	--	0	6	--	--	--	15	0.22	1.3	0	--	--	--	--	
	Sep-99	0	0.28	0	1.8	1.7	--	0	--	0	--	0	4.5	--	--	--	20	0.31	--	--	--	--	--	--	
	Dec-99	0.24	1.2	0	2	1.9	--	0	--	0	--	0	0	--	--	--	6.7	0	0	0	0	--	--	--	
	Mar-00	0	0	0	6	2	--	0	--	0	--	0	0	--	--	--	4.9	0	0	0	0	--	--	--	
	Jun-00	13	0.51	0	1.4	0	--	0	--	0	--	0	7	--	--	--	0.98	0	0	0	0	--	--	--	
	Sep-00	0.2	0	0	2.5	1.6	--	0	--	0	--	0	2.7	--	--	--	7	0	0	0	0	--	--	--	
	Dec-00	8.5	3.5	0	8.5	0	--	0	--	0	--	0	0.7	--	--	--	0.63	2.6	0	0	0	--	--	--	
	Mar-01	0.35	1.6	0	4.6	3.4	--	--	--	--	--	--	0	--	--	--	1.5	0.77	--	--	--	--	--	--	
	Jun-01	0.68	1.4	--	4.8	2	--	--	--	--	--	--	--	--	--	--	0.21	1.3	--	--	--	--	--	--	
	Oct-01	0	0	0	0.47	0.77	--	0	--	0	--	0	0.2	--	--	--	5.4	0	--	0	0	--	--	--	
	Jan-02	0	0.34	0	1.4	1.6	--	--	--	--	--	--	0	--	--	--	1.6	--	--	--	--	--	--	--	
	May-02	0.27	0	0	0.3	0.53	--	0	--	0	--	0	0.25	--	--	--	1.2	0	0	0	0	--	--	--	
	Aug-02	0.27	0.25	0	0.37	0.3	--	0	--	0	--	0	1.8	--	--	--	7.4	--	0.22	1.2	4.8	--	--	--	
	Nov-02	0	0.82	0.21	18	3.8	--	0	--	0	--	0	0	--	--	--	2.6	3.1	0	0.35	0.38	--	--	--	
	Mar-03	0.67	0.61	0	10	3.6	--	0	--	0	--	0	0.21	--	--	--	1.2	1.7	0	0.25	0.24	--	--	--	
	Jul-03	0	1.7	0	5.1	3	--	0	--	0	--	0	--	--	--	--	5.1	0	--	0	0	--	--	--	
	Oct-03	0.2	0.25	0.44	0.78	0.63	--	0	--	0	--	0	--	--	--	--	--	9.5	3.7	--	0.22	--	--	--	
	Feb-04	0.61	1.20	0	3.80	1.40	--	0	--	0	--	0	0.00	--	--	--	0.86	1.60	0.00	0.00	0.00	--	--	--	
	Mar-04	0.92	0	0	0	0.87	--	0	--	0	--	0	0.25	--	--	--	0.25	0.78	0	0	0	--	--	--	
	Jun-04	0.54	0	0	1.3	1.1	--	0	--	0	--	0	0	--	--	--	0.5	1.1	0	0	0	--	--	--	
	Sep-04	0	0.22	0	0	0.97	--	0	--	0	--	0	0	--	--	--	1.2	0	0	0	0	--	--	--	
	Dec-04	0	0.24	0	1.5	0.89	--	0	--	0	--	0	0	--	--	--	0.76	1.6	0	0	0	--	--	--	
	Mar-05	--	0.21	0	2	1.9	--	0	--	0	--	0	0	--	--	--	0.33	0.79	0	0	0	--	--	--	
	Mar-06	1	0	0	0	0	--	0	--	0	--	0	0	--	--	--	0	0	0	0	0	--	--	--	
Jul-08	0.43	0	0	0	0	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--		
Oct-08	0.52	0	--	0	0	--	0	--	0	--	0	--	--	--	--	--	--	--	--	--	--	--	--		
PZ-4	Aug-96	--	--	--	0	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--	2	5	3	--	
	Nov-97	--	--	--	8.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	May-98	4.4	0.43	--	4.9	--	0.76	1.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	May-99	2.8	1.2	--	3.4	--	1.4	1.4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-00	1.9	0	--	3	--	0.55	1	--	--	--	42	--	--	--	--	--	--	--	--	--	--	--	--	
	Dec-00	0	0	--	2.2	--	--	0	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	
	Jul-01	0.69	--	--	1.6	--	--	0.52	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	May-02	--	1.8	--	9.2	--	0.68	1.6	--	--	--	0.93	--	--	--	--	--	--	--	--	--	--	--	--	
	Oct-03	0.35	0	--	1.6	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-04	0.22	0	--	1.3	--	0	0.52	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	
Jul-08	0.8	0	--	2.7	--	0	0.9	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
PZ-5	Jun-96	200	150	<10	46	0	--	0	--	<50	--	--	0	0	--	--	0	--	--	--	--	--	--	--	
	Aug-96	85	28	<5	5	0	--	0	16	<25	13	--	0	0	--	--	0	--	--	--	--	--	--	--	
	Nov-96	120	23	<5	12	0	--	0	0	<25	--	--	8	0	--	--	0	--	--	--	--	--	--	--	
	Feb-97	340	69	--	85	--	--	--	0	--	6.7	--	0	--	--	--	--	--	--	--	--	--	--	--	
	Jun-97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Aug-97	46	22	--	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Nov-97	5.9	--	--	--	3.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Feb-98	13	--	2.1	3.3	0	--	0	0	3.1	--	--	0	8.7	--	--	260	--	--	--	--	--	--	--	
	May-98	--	--	--	--	0	--	0	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-98	110	46	0	100	100	--	0	0	--	--	--	--	--	--	--	11	--	--	--	--	--	--	--	
	Nov-98	200	28	0	130	50	--	2.2	0	--	--	0	0	--	--	--	0	--	--	--	--	--	--	--	
	Feb-99	300	46	0	110	26	--	0	0	--	--	0	0	--	--	--	0	--	--	--	--	--	--	--	
	May-99	--	--	--	--	--	--	--	--	--	--	--	0	0	--	--	0	--	--	--	--	--	--	--	
	Sep-99	42	32	0.82	32	0	--	0	0	--	--	--	0	0	--	--	0	--	--	--	--	--	--	--	
	Dec-99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Mar-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Jun-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	Sep-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Dec-00	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Mar-01	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	Jul-01	81	38	2	280	29	--	1.3	0	--	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--
	Oct-01	160	130	2.4	140	17	--	0	0	--	--	--	0	0	--	--	0	--	--	--	--	--	--	--	--
	Jan-02	--	--	--	--	--	--	--	--	--	--	--	--	--	--</										

Note:

-- = No data

**APPENDIX B—
HISTORICAL DATA FOR THE
LOCKHEED MARTIN UTICA SITE, 2008–2009**

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-2		PZ-4	PZ-5		PZ-6	
		7/29/2008	10/2/2008	7/30/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008
1,1,1-TRICHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,1,2,2-TETRACHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5 J	< 1	1.7 J	< 20 J	< 4	< 20 J	< 4
1,1,2-TRICHLOROETHANE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,1-DICHLOROETHANE	5	< 5 J	< 1	0.90 J	< 20 J	< 4	< 20 J	< 4
1,1-DICHLOROETHENE	0.7	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2,4-TRICHLOROBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2-DIBROMOETHANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2-DICHLOROETHANE	0.6	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,2-DICHLOROPROPANE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,3-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
1,4-DICHLOROBENZENE	3	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
2-BUTANONE	50	2.6 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20
2-HEXANONE	50	< 25 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20
4-METHYL-2-PENTANONE	NS	< 25 J	< 5	< 25	< 100 J	< 20	< 100 J	< 20
ACETONE	50	17 J	11	< 25	41 J	< 20	45 J	< 20
BENZENE	1	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
BROMODICHLOROMETHANE	50	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
BROMOFORM	50	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
BROMOMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CARBON DISULFIDE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CARBON TETRACHLORIDE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CHLOROBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CHLOROETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CHLOROFORM	7	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CHLOROMETHANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CIS-1,2-DICHLOROETHENE	5	< 5 J	< 1	2.7 J	26 J	87	19 J	62
CIS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
CYCLOHEXANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
DIBROMOCHLOROMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
DICHLORODIFLUOROMETHANE	5	< 5 J	< 1	3.0 J	< 20 J	< 4	< 20 J	< 4
ETHYLBENZENE	5	< 5 J	< 1	< 5	10 J	1.7 J	< 20 J	< 4
ISOPROPYLBENZENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
METHYL ACETATE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
METHYLCYCLOHEXANE	NS	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
METHYLENE CHLORIDE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
STYRENE (MONOMER)	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
TETRACHLOROETHENE	5	0.43 J	0.52 J	0.80 J	8.6 J	4.2	14 J	< 4
TOLUENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
XYLENE (TOTAL)	5	< 15 J	< 3	< 15	34 J	3.9 J	< 20 J	< 12
TRANS-1,2-DICHLOROETHENE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
TRANS-1,3-DICHLOROPROPENE	0.4	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
TRICHLOROETHENE	5	< 5 J	< 1	< 5	9.5 J	37	19 J	14
TRICHLOROFLUOROMETHANE	5	< 5 J	< 1	< 5	< 20 J	< 4	< 20 J	< 4
VINYL CHLORIDE	2	< 5 J	< 1	< 5	5.9 J	37	9.6 J	25

Notes:

Data compared to TOGS 1.1.1 Ambient

Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-7		PZ-8		PZ-9		
		8/6/2008	10/2/2008	8/6/2008	10/2/2008	8/6/2008	10/2/2008	2/5/2009
1,1,1-TRICHLOROETHANE	5	1.1 J	< 1	< 20 J	< 4	< 5	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5 J	< 1	< 20 J	< 4	< 5 J	< 1	< 1
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,1-DICHLOROETHANE	5	0.91 J	< 1	< 20 J	< 4	3.0 J	1.9	1.3
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2-DIBROMOETHANE	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2-DICHLOROBENZENE	3	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,2-DICHLOROPROPANE	1	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,3-DICHLOROBENZENE	3	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
1,4-DICHLOROBENZENE	3	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
2-BUTANONE	50	< 25	< 5	< 100 J	< 20	2.6 J	< 5	< 5
2-HEXANONE	50	< 25	< 5	< 100 J	< 20	< 25	< 5	< 5
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 100 J	< 20	< 25	< 5	< 5
ACETONE	50	33	13	770 J	37	150	6.9	6.3
BENZENE	1	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
BROMODICHLOROMETHANE	50	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
BROMOFORM	50	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
BROMOMETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CARBON DISULFIDE	NS	< 5	< 1	< 20 J	< 4	< 5	3.2	0.45 J
CARBON TETRACHLORIDE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CHLOROBENZENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CHLOROETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CHLOROFORM	7	< 5	< 1	20 J	8.2	0.40 J	< 1	< 1
CHLOROMETHANE	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CIS-1,2-DICHLOROETHENE	5	< 5	< 1	1.8 J	5.0	< 5	< 1	< 1
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
CYCLOHEXANE	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
ETHYLBENZENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
ISOPROPYLBENZENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
METHYL ACETATE	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
METHYLCYCLOHEXANE	NS	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
METHYLENE CHLORIDE	5	< 5	< 1	< 20 J	4.8	1.5 J	< 1	8.6
STYRENE (MONOMER)	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
TETRACHLOROETHENE	5	< 5	< 1	14 J	41	< 5	< 1	< 1
TOLUENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
XYLENE (TOTAL)	5	< 15	< 3	< 60 J	< 12	< 15	< 3	< 3
TRANS-1,2-DICHLOROETHENE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
TRICHLOROETHENE	5	0.94 J	< 1	4.1 J	9.4	< 5	< 1	0.27 J
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1
VINYL CHLORIDE	2	< 5	< 1	< 20 J	< 4	< 5	< 1	< 1

Notes:

Data compared to TOGS 1.1.1 Ambient

Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-10		MW-1		MW-2		MW-3	
		8/6/2008	10/2/2008	7/30/2008	10/3/2008	7/30/2008	10/2/2008	7/30/2008	10/2/2008
1,1,1-TRICHLOROETHANE	5	< 5	< 1	< 5	< 1	0.57 J	< 1	< 5	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5 J	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,1-DICHLOROETHANE	5	1.3	< 1	8.3	6.0	7.0	5.3	5.2	5.0
1,1-DICHLOROETHENE	0.7	< 5	< 1	0.57 J	< 1	< 5	< 1	< 5	< 1
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
2-BUTANONE	50	2.7 J	< 5	< 25	< 5	< 25	< 5	< 25	< 5
2-HEXANONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25	< 5
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	< 25	< 5	< 25	< 5
ACETONE	50	26	7.2	< 25	< 5	< 25	< 5	< 25	< 5
BENZENE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
BROMOFORM	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
BROMOMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CARBON DISULFIDE	NS	< 5	2.6	< 5	< 1	< 5	< 1	< 5	< 1
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CHLOROFORM	7	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CIS-1,2-DICHLOROETHENE	5	< 5	< 1	54	43	12	11	53	86
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
TETRACHLOROETHENE	5	< 5	< 1	60	18	< 5	< 1	40	12
TOLUENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
XYLENE (TOTAL)	5	< 15	< 3	< 15	< 3	< 15	< 3	< 15	< 3
TRANS-1,2-DICHLOROETHENE	5	< 5	< 1	2.0 J	1.6	2.1 J	2.1	1.6 J	1.6
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
TRICHLOROETHENE	5	< 5	0.54 J	18	7.6	0.62 J	< 1	55	29
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5	< 1
VINYL CHLORIDE	2	< 5	< 1	4.7 J	3.9	36	28	4.8 J	4.0

Notes:

Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-4		MW-5		MW-7	
		7/30/2008	10/2/2008	7/30/2008	10/3/2008	7/29/2008	10/1/2008
1,1,1-TRICHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	< 5 J	< 1
1,1-DICHLOROETHANE	5	1.1 J	1.9	< 5	< 1	< 5 J	< 1
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	< 5 J	< 1
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	< 5 J	< 1
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5 J	< 1
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5 J	< 1
2-BUTANONE	50	< 25	< 5	< 25	< 5	< 25 J	< 5
2-HEXANONE	50	< 25	< 5	< 25	< 5	< 25 J	< 5
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	< 25 J	< 5
ACETONE	50	< 25	< 5	< 25	14	4.4 J	6.1
BENZENE	1	< 5	< 1	< 5	< 1	< 5 J	< 1
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	< 5 J	< 1
BROMOFORM	50	< 5	< 1	< 5	< 1	< 5 J	< 1
BROMOMETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
CARBON DISULFIDE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
CHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
CHLOROFORM	7	< 5	< 1	< 5	< 1	< 5 J	< 1
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
CIS-1,2-DICHLOROETHENE	5	4.6 J	7.1	< 5	< 1	< 5 J	< 1
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5 J	< 1
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5 J	< 1
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	< 5 J	< 1
TETRACHLOROETHENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
TOLUENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
XYLENE (TOTAL)	5	< 15	< 3	< 15	< 3	< 15 J	< 3
TRANS-1,2-DICHLOROETHENE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5 J	< 1
TRICHLOROETHENE	5	< 5	< 1	< 5	< 1	0.68 J	0.98 J
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5 J	< 1
VINYL CHLORIDE	2	2.0 J	3.2	< 5	< 1	< 5 J	< 1

Notes:

Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values
NS - No Standard
All units are ug/L unless otherwise noted
Exceedences noted in **bold**.
J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-9		MW-10		MW-11		MW-13S
		7/30/2008	10/2/2008	7/30/2008	10/3/2008	7/29/2008	10/1/2008	7/30/2008
1,1,1-TRICHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	1.2 J
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,1-DICHLOROETHANE	5	0.88 J	< 1	6.9	2.0	< 5	< 1	4.6 J
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 5	< 1	< 5
2-BUTANONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25
2-HEXANONE	50	< 25	< 5	< 25	< 5	< 25	< 5	< 25
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	< 25	< 5	< 25
ACETONE	50	< 25	12	< 25	< 5	< 25	< 5	< 25
BENZENE	1	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMOFORM	50	< 5	< 1	< 5	< 1	< 5	< 1	< 5
BROMOMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CARBON DISULFIDE	NS	< 5	< 1	< 5	< 1	< 5	2.8	< 5
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROFORM	7	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CIS-1,2-DICHLOROETHENE	5	2.5 J	< 1	41	25	< 5	< 1	< 5
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 5	< 1	< 5
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TETRACHLOROETHENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TOLUENE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
XYLENE (TOTAL)	5	< 15	< 3	< 5	< 3	< 15	< 3	< 15
TRANS-1,2-DICHLOROETHENE	5	1.2 J	< 1	3.3 J	1.6	< 5	< 1	< 5
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 5	< 1	< 5
TRICHLOROETHENE	5	< 5	< 1	3.9 J	1.7	< 5	< 1	0.53 J
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 5	< 1	< 5
VINYL CHLORIDE	2	7.8	< 1	38	22	< 5	< 1	< 5

Notes:

Data compared to TOGS 1.1.1 Ambient

Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-13T		MW-13BR			MW-14S	
		7/30/2008	10/3/2008	7/30/2008	10/3/2008	2/5/2009	7/29/2008	10/1/2008
1,1,1-TRICHLOROETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,1,2-TRICHLOROETHANE	1	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,1-DICHLOROETHANE	5	6.2	< 1	< 5	< 1	< 1	< 5	< 1
1,1-DICHLOROETHENE	0.7	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2,4-TRICHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2-DIBROMOETHANE	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2-DICHLOROETHANE	0.6	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,2-DICHLOROPROPANE	1	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,3-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 1	< 5	< 1
1,4-DICHLOROBENZENE	3	< 5	< 1	< 5	< 1	< 1	< 5	< 1
2-BUTANONE	50	< 25	< 5	< 25	< 5	< 5	< 25	< 5
2-HEXANONE	50	< 25	< 5	< 25	< 5	< 5	< 25	< 5
4-METHYL-2-PENTANONE	NS	< 25	< 5	< 25	< 5	< 5	< 25	< 5
ACETONE	50	< 25	10	< 25	< 5	3.8 J	2.3 J	< 5
BENZENE	1	< 5	< 1	< 5	< 1	< 1	< 5	< 1
BROMODICHLOROMETHANE	50	< 5	< 1	< 5	< 1	< 1	< 5	< 1
BROMOFORM	50	< 5	< 1	< 5	< 1	< 1	< 5	< 1
BROMOMETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5 J	< 1
CARBON DISULFIDE	NS	< 5	< 1	< 5	< 1	< 1	0.26 J	2.8
CARBON TETRACHLORIDE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
CHLOROBENZENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
CHLOROETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
CHLOROFORM	7	< 5	< 1	< 5	< 1	< 1	2.2 J	2.1
CHLOROMETHANE	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
CIS-1,2-DICHLOROETHENE	5	2.5 J	< 1	< 5	< 1	< 1	< 5	< 1
CIS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 1	< 5	< 1
CYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
DIBROMOCHLOROMETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
DICHLORODIFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
ETHYLBENZENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
ISOPROPYLBENZENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
METHYL ACETATE	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
METHYLCYCLOHEXANE	NS	< 5	< 1	< 5	< 1	< 1	< 5	< 1
METHYLENE CHLORIDE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
STYRENE (MONOMER)	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
TETRACHLOROETHENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
TOLUENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
XYLENE (TOTAL)	5	< 15	< 3	< 15	< 3	< 3	< 15	< 3
TRANS-1,2-DICHLOROETHENE	5	0.71 J	< 1	< 5	< 1	< 1	< 5	< 1
TRANS-1,3-DICHLOROPROPENE	0.4	< 5	< 1	< 5	< 1	< 1	< 5	< 1
TRICHLOROETHENE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
TRICHLOROFLUOROMETHANE	5	< 5	< 1	< 5	< 1	< 1	< 5	< 1
VINYL CHLORIDE	2	26	< 1	< 5	< 1	< 1	< 5	< 1

Notes:

Data compared to TOGS 1.1.1 Ambient

Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 5. AOC 1 - Volatile Organic Compounds in Groundwater Samples, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	MW-14BR			MW-15S		MW-15BR		
		7/29/2008	10/1/2008	2/5/2009	7/29/2008	10/3/2008	7/29/2008	10/1/2008	2/5/2009
1,1,1-TRICHLOROETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,1,2,2-TETRACHLOROETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,1,2-TRICHLOROETHANE	1	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,1-DICHLOROETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,1-DICHLOROETHENE	0.7	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2,4-TRICHLOROBENZENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2-DIBROMOETHANE	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2-DICHLOROBENZENE	3	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2-DICHLOROETHANE	0.6	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,2-DICHLOROPROPANE	1	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,3-DICHLOROBENZENE	3	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
1,4-DICHLOROBENZENE	3	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
2-BUTANONE	50	< 200	< 5	< 5	< 25	< 5	< 25	< 5	1.4 J
2-HEXANONE	50	< 200	< 5	< 5	< 25	< 5	< 25	< 5	< 5
4-METHYL-2-PENTANONE	NS	< 200	< 5	< 5	< 25	< 5	< 25	< 5	< 5
ACETONE	50	2100	380	25	1.3 J	5.0	6.0 J	5.8	7.2
BENZENE	1	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
BROMODICHLOROMETHANE	50	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
BROMOFORM	50	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
BROMOMETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CARBON DISULFIDE	NS	< 40	3.0	< 1	< 5	2.8	0.30 J	2.6	< 1
CARBON TETRACHLORIDE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CHLOROBENZENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CHLOROETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CHLOROFORM	7	14 J	7.5	3.3	4.3 J	4.5	11	5.4	1.1
CHLOROMETHANE	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CIS-1,2-DICHLOROETHENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CIS-1,3-DICHLOROPROPENE	0.4	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
CYCLOHEXANE	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
DIBROMOCHLOROMETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
DICHLORODIFLUOROMETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
ETHYLBENZENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
ISOPROPYLBENZENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
METHYL ACETATE	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
METHYL-T-BUTYL ETHER (MTBE)	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
METHYLCYCLOHEXANE	NS	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
METHYLENE CHLORIDE	5	< 40	1.4	< 1	< 5	< 1	< 5	0.73 J	< 1
STYRENE (MONOMER)	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
TETRACHLOROETHENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
TOLUENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
XYLENE (TOTAL)	5	< 120	< 3	< 3	< 15	< 3	< 15	< 3	< 3
TRANS-1,2-DICHLOROETHENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
TRANS-1,3-DICHLOROPROPENE	0.4	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
TRICHLOROETHENE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
TRICHLOROFLUOROMETHANE	5	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1
VINYL CHLORIDE	2	< 40	< 1	< 1	< 5	< 1	< 5	< 1	< 1

Notes:

Data compared to TOGS 1.1.1 Ambient
Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

Table 18. AOC 4 - Summary of Groundwater Sample Results from Bedding Investigation, November - December 2008, Corrective Measures Study Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York

CONSTITUENT	NYSDEC GW STANDARDS	PZ-11		PZ-12	PZ-13		PZ-14	PZ-15	PZ-16
		11/4/2008	12/11/2008	12/11/2008	11/4/2008	12/11/2008	12/11/2008	12/11/2008	12/11/2008
1,1,1-TRICHLOROETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
1,1,2,2-TETRACHLOROETHANE	5	<1	<2	<1	<1	<1	<1	<1	1.0
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
1,1,2-TRICHLOROETHANE	1	<1	<2	<1	<1	<1	<1	<1	<1
1,1-DICHLOROETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
1,1-DICHLOROETHENE	0.7	<1	<2	<1	<1	<1	<1	<1	<1
1,2,4-TRICHLOROBENZENE	5	<1	<2	<1	<1	<1	<1	<1	<1
1,2-DIBROMO-3-CHLOROPROPANE	0.04	<1	<2	<1	<1	<1	<1	<1	<1
1,2-DIBROMOETHANE	NS	<1	<2	<1	<1	<1	<1	<1	<1
1,2-DICHLOROBENZENE	3	<1	<2	<1	<1	<1	<1	<1	<1
1,2-DICHLOROETHANE	0.6	<1	<2	<1	<1	<1	<1	<1	<1
1,2-DICHLOROPROPANE	1	<1	<2	<1	<1	<1	<1	<1	<1
1,3-DICHLOROBENZENE	3	<1	<2	<1	<1	<1	<1	<1	<1
1,4-DICHLOROBENZENE	3	<1	<2	<1	<1	<1	<1	<1	<1
2-BUTANONE	50	<5	<10	<5	<5	<5	<5	<5	<5
2-HEXANONE	50	<5	<10	<5	<5	<5	<5	<5	<5
4-METHYL-2-PENTANONE	NS	<5	<10	<5	<5	<5	<5	<5	<5
ACETONE	50	<5	3.2 J	3.3 J	24	4.0 J	6.3	<5	<5
BENZENE	1	<1	<2	<1	<1	<1	<1	<1	<1
BROMODICHLOROMETHANE	50	<1	<2	<1	<1	<1	<1	<1	<1
BROMOFORM	50	<1	<2	<1	<1	<1	<1	<1	<1
BROMOMETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
CARBON DISULFIDE	NS	<1	<2	<1	<1	<1	<1	<1	<1
CARBON TETRACHLORIDE	5	<1	<2	<1	<1	<1	<1	<1	<1
CHLOROBENZENE	5	<1	<2	<1	<1	<1	<1	<1	<1
CHLOROETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
CHLOROFORM	7	0.83 J	<2	<1	<1	<1	<1	<1	0.78 J
CHLOROMETHANE	NS	<1	<2	<1	<1	<1	<1	<1	<1
CIS-1,2-DICHLOROETHENE	5	8.8	2.7	10	4.1	<1	2.5	9.6	5.5
CIS-1,3-DICHLOROPROPENE	0.4	<1	<2	<1	<1	<1	<1	<1	<1
CYCLOHEXANE	NS	<1	<2	<1	<1	<1	<1	<1	<1
DIBROMOCHLOROMETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
DICHLORODIFLUOROMETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
ETHYLBENZENE	5	<1	<2	<1	<1	<1	<1	<1	<1
ISOPROPYLBENZENE	5	<1	<2	<1	<1	<1	<1	<1	<1
METHYL ACETATE	NS	<1	<2	<1	<1	<1	<1	<1	<1
METHYL-T-BUTYL ETHER (MTBE)	NS	<1	<2	<1	<1	<1	<1	<1	<1
METHYLCYCLOHEXANE	NS	<1	<2	<1	<1	<1	<1	<1	<1
METHYLENE CHLORIDE	5	<1	<2	<1	<1	<1	<1	<1	<1
STYRENE (MONOMER)	5	<1	<2	<1	<1	<1	<1	<1	<1
TETRACHLOROETHENE	5	95	15	45	5.7	1.9	1.8	6.7	8.6
TOLUENE	5	<1	<2	<1	<1	<1	<1	<1	<1
XYLENE (TOTAL)	5	<3	<6	<3	<3	<3	<3	<3	<3
TRANS-1,2-DICHLOROETHENE	5	<1	<2	<1	<1	<1	0.52 J	0.74 J	<1
TRANS-1,3-DICHLOROPROPENE	0.4	<1	<2	<1	<1	<1	<1	<1	<1
TRICHLOROETHENE	5	33	4.5	18	2.6	0.53 J	1.2	6.5	10
TRICHLOROFLUOROMETHANE	5	<1	<2	<1	<1	<1	<1	<1	<1
VINYL CHLORIDE	2	<1	<2	<1	<1	<1	<1	<1	<1

Notes:

Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values

NS - No Standard

All units are ug/L unless otherwise noted

Exceedences noted in **bold**.

J - Estimated Value

**APPENDIX C—
HISTORICAL DATA FOR
THE LOCKHEED MARTIN UTICA SITE, 2010**

Table 4. AOC 1 - Volatile Organic Compounds for Groundwater Samples, Former Northern Perimeter Ditch Supplemental Investigation Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.

CONSTITUENT	NYSDEC GW STANDARDS	A1-PZ1 6/28/2010	A1-PZ2 6/28/2010	A2-PZ1 6/25/2010	A2-PZ2 6/25/2010	A2-PZ3 6/25/2010	A2-PZ4 6/25/2010	A2-PZ5 6/25/2010	A2-PZ6 6/25/2010	A2-PZ7 6/25/2010	A2-PZ8 6/25/2010	PZ-2 6/24/2010	PZ-4 6/28/2010
1,1,2-Trichlorotrifluoroethane	NS	ND J	ND J	740 DJ	ND	ND	ND	ND	6.0 J	ND	ND	ND	ND J
Bromodichloromethane	50	ND J	ND J	ND	ND J	ND	ND	ND	ND	ND	ND	ND	ND J
Bromoform	50	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND J	ND J	0.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Carbon Tetrachloride	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	0.64 J	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	820 D	9.5 J	ND	ND	ND	88	66	ND	ND	ND
Chloromethane	NS	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
cis-1,2-Dichloroethene	5	32	140	7900 D	140	0.89 J	ND	ND	670 D	870 D	6.6	1.7	ND
cis-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Cyclohexane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Dichlorodifluoromethane	5	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,1-Dichloroethene	0.7	ND	ND	14	ND	ND	ND	ND	ND	6.5	ND	ND	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	7.1	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND J	ND J
Methyl tert-Butyl Ether	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Methylcyclohexane	NS	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Methylene Chloride	5	ND	ND	4.6	ND	ND	ND	ND	2.2	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	0.69 J	740	1.1	ND	ND	2.1	2400 D	ND	ND	ND
Toluene	5	ND J	ND J	0.89 J	ND	ND	ND	ND	2.2	ND	ND	ND	ND J
trans-1,2-Dichloroethene	5	ND	ND	7.5	ND	ND	ND	ND	1.1	5.4	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Trichloroethene	5	ND	ND	1100 D	300	1.7	ND	ND	79	2700 D	ND	ND	ND
Trichlorofluoromethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
Vinyl chloride	2	ND	21	590 D	12	ND	ND	ND	37	42	ND	1.1	ND
Xylenes, total	5	ND	ND	ND	ND	ND	ND	ND	ND	2.5	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND	ND	ND J	ND J	ND J	ND J	ND J	ND J	ND J
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.87 J	ND
1,2-Dichloroethane	0.6	ND	ND	1.8	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	32	140	7900 D	140	0.89 J	ND	ND	670 D	870 D	6.6	1.7 J	ND
1,1,1-Trichloroethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND J
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	7.0 J	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	0.78 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	3.9 J	ND	ND	ND	ND	2.7 J	ND	ND	ND	ND
Acetone	50	ND J	ND J	7.5 J	ND	ND	3.2 J	ND J	26 J	ND J	ND J	5.1 J	ND J
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
 Data compared to TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values
 NS - No Standard
 All units are ug/L unless otherwise noted
 bgs - below ground surface
 Exceedences noted in **bold** and highlighted.
 J - Estimated Value
 D -Diluted Value

Table 4. AOC 1 - Volatile Organic Compounds for Groundwater Samples, Former Northern Perimeter Ditch Supplemental Investigation Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.

CONSTITUENT	NYSDEC GW STANDARDS	PZ-22 6/28/2010	PZ-23 6/28/2010	PZ-24 6/25/410	PZ-25 6/25/2010	PZ-26 6/25/2010	PZ-27 6/25/2010	PZ-28 6/25/2010	PZ-29 6/28/2010	PZ-30 6/25/2010	PZ-31 6/25/2010	PZ-32 6/25/2010	PZ-34 6/24/2010
1,1,2-Trichlorotrifluoroethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	34 J	ND
Bromodichloromethane	50	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Bromoform	50	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Carbon Tetrachloride	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.8	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.8	16	ND
Chloromethane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
cis-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	6.6	4.8	ND	ND	8.5	370
cis-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Cyclohexane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Dichlorodifluoromethane	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
1,1-Dichloroethene	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6.9	ND
Ethylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND J
Methyl tert-Butyl Ether	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	1.4	ND
Methylcyclohexane	NS	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	ND	ND	ND	ND	ND	ND	ND	5.8	ND	ND	43	ND
Toluene	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Trichloroethene	5	ND	ND	ND	ND	ND	ND	ND	0.84 J	ND	ND	49	12
Trichlorofluoromethane	5	ND J	ND J	ND	ND	ND J	ND J	ND	ND J	ND	ND J	ND	ND
Vinyl chloride	2	ND	ND	ND	ND	ND	ND	ND	12 J	ND	ND	ND	130
Xylenes, total	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND	ND J	ND	ND
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	ND	ND	ND	ND	ND	ND	6.6	4.8	ND	ND	8.5	370
1,1,1-Trichloroethane	5	ND J	ND J	ND	ND	ND	ND	ND	ND J	ND	ND J	11	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	8.5 J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND
Benzene	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:
 Data compared to TOGS 1.1.1 Ambient Water Quality
 NS - No Standard
 All units are ug/L unless otherwise noted
 bgs - below ground surface
 Exceedences noted in **bold** and highlighted.
 J - Estimated Value
 D -Diluted Value

Table 4. AOC 1 - Volatile Organic Compounds for Groundwater Samples, Former Northern Perimeter Ditch Supplemental Investigation Report, Solvent Dock Area, Former Lockheed Martin French Road Facility, Utica, New York.

CONSTITUENT	NYSDEC GW STANDARDS	PZ-35 6/24/2010	PZ-36 6/24/2010	PZ-39 6/24/2010	PZ-40 6/24/2010	PZ-41 6/24/2010	PZ-42 6/24/2010	MW-6 6/30/2010	MW-9 6/24/2010
1,1,2-Trichlorotrifluoroethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND J
Bromodichloromethane	50	ND	ND	ND	ND	ND	ND	ND J	ND
Bromoform	50	ND	ND	ND	ND	ND	ND	ND J	ND
Bromomethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Carbon disulfide	NS	ND	ND	ND	0.62 J	ND	ND	ND J	ND
Carbon Tetrachloride	5	ND	ND	ND	ND	ND	ND	ND J	ND
Chlorobenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Chlorodibromomethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Chloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	7	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	5	2.0 J	1.9	1.0	ND	ND	21	ND	0.62
Chloromethane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
cis-1,2-Dichloroethene	5	10 J	6.3	3.0	ND	ND	31	ND	ND
cis-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND J	ND
Cyclohexane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Dichlorodifluoromethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,1-Dichloroethene	0.7	0.73 J	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	5	ND J	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	5	ND	ND	ND	ND	ND	ND	ND	ND
Methyl Acetate	NS	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND J
Methyl tert-Butyl Ether	NS	ND	ND	ND	ND	ND	ND	ND J	ND J
Methylcyclohexane	NS	ND	ND	ND	ND	ND	ND	ND J	ND
Methylene Chloride	5	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	5	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	5	0.77	ND	7.4	ND	ND	ND	ND	ND
Toluene	5	ND	ND	ND	ND	ND	ND	ND J	ND
trans-1,2-Dichloroethene	5	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	0.4	ND	ND	ND	ND	ND	ND	ND J	ND
Trichloroethene	5	7.1 J	1.2	6.5	ND	ND	18	ND	ND
Trichlorofluoromethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
Vinyl chloride	2	2.9	ND	3.6	ND	ND	ND	ND	ND
Xylenes, total	5	ND J	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,2-Dibromo-3-chloropropane	0.04	ND J	ND J	ND J	ND J	ND J	ND J	ND J	ND
1,2-Dibromoethane (EDB)	NS	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	0.6	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene, Total	5	11	6.3	3.0	ND	ND	31	ND	ND
1,1,1-Trichloroethane	5	ND	ND	ND	ND	ND	ND	ND J	ND
1,2-Dichloropropane	1	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	3	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	5	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	50	ND	ND	ND	ND	ND	ND	3.2 J	ND
2-Hexanone	50	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	1	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	NS	ND	ND	ND	ND	ND	ND	ND	ND
Acetone	50	ND	4.2 J	3.3 J	7.5 J	ND	ND	5.5 J	26
Benzene	1	ND J	ND	ND	ND	ND	ND	ND	ND

Notes:
 Data compared to TOGS 1.1.1 Ambient Water Quality
 NS - No Standard
 All units are ug/L unless otherwise noted
 bgs - below ground surface
 Exceedences noted in **bold** and highlighted.
 J - Estimated Value
 D -Diluted Value

**APPENDIX D—
ANNUAL GROUNDWATER SAMPLING DATA (SEPTEMBER 2011)**

Appendix D: Annual Groundwater Sampling Data (September 2011)
Former Lockheed Martin, French Road Facility, Utica, New York

Location ID: Date Collected:	Water Guidance Values	Units	A1-PZ-2 09/27/11	A2-PZ-1 09/26/11	A2-PZ-7 09/26/11	MW-1 09/28/11	MW-2 09/27/11	MW-3 09/28/11	MW-4 09/27/11	MW-5 09/28/11	MW-10 09/29/11	MW-13S 09/27/11	MW-14BR 09/29/11	PZ-5 09/28/11	PZ-6 09/28/11	PZ-7 09/28/11	PZ-8 09/28/11	PZ-11R 09/29/11	PZ-13R 09/27/11	PZ-18 09/27/11	PZ-26 09/26/11	PZ-27 09/27/11
Volatile Organics																						
1,1,1-Trichloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-trichloro-1,2,2-trifluoroethane	5	ug/L	1.0 U	1600 EJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	ug/L	1.0 U	3.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	ug/L	2.1	1,900 D	9.8	5.8	5.9	6.8	0.70 J	0.69 J	2.6	2.4	1.0 U	1.0 U	1.0 U	0.83 J	4.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	ug/L	1.0 U	45	0.73 J	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	0.04	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane	0.0006	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	ug/L	1.0 U	5.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone	50	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	--	ug/L	5.0 U	6.2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50	ug/L	6.6 J	9.5 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	16	3.1 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	ug/L	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	60	ug/L	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	ug/L	99	27,000 D	120 D	40	13	68	3.3	1.0 U	53	1.0 U	1.0 U	53	20	1.0 U	77	5.0	2.4	0.85 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	ug/L	1.0 U	960 EJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert-butyl ether	10	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	--	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	ug/L	1.0 U	4.6	360 D	77	1.0 U	9.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	59	72	1.0 U	350 D	5.5	1.7	1.0 U	1.0 U	1.0 U
Toluene	5	ug/L	1.0 U	5.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	ug/L	1.0 U	33	1.0 U	1.0 U	2.0	1.0 U	1.0 U	1.0 U	3.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	ug/L	1.7	2,100 D	280 D	18	1.0 U	16	1.0 U	1.0 U	2.5	1.0 U	1.0 U	91 D	20	0.58 J	290 D	9.0	5.5	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	2	ug/L	27	720 D	6.5	3.1	33	5.0	1.4	1.0 U	23	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	5	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.70 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Miscellaneous																						
Alkalinity	--	mg/L	425	482	NA	338	NA	356	NA	NA	211	NA	NA	NA	NA	NA	NA	NA	390	NA	NA	NA
Nitrate	10	mg/L	0.05 UJ	0.05 UJ																		

Notes:

- NA:
- U:
- J:
- B:
- Not Analyzed.
- The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
- Indicates an estimated value.
- Indicates an estimated value between the instrument detection limit and the Reporting Limit (RL).

**APPENDIX E—
SEPTEMBER 2011 GROUNDWATER LAB-ANALYSIS REPORT**

ANALYTICAL REPORT

Job Number: 480-10504-1

Job Description: Lockheed Martin Corporation

For:

ARCADIS U.S., Inc.
465 New Karner Road
First Floor
Albany, NY 12205

Attention: Mr. Jeffrey Bonsteel



Approved for release.
Candace Fox
Project Manager II
10/24/2011 2:57 PM

Candace Fox
Project Manager II
candace.fox@testamericainc.com
10/24/2011

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Job Number: 480-10504-1

Job Description: Lockheed Martin Corporation

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 within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in cursive script that reads "Candace L. Fox". The signature is written in dark ink and is positioned above a horizontal line.

Approved for release.
Candace Fox
Project Manager II
10/24/2011 2:57 PM

Candace Fox

Table of Contents

Cover Title Page	1
Data Summaries	6
Report Narrative	6
Manual Integration Summary	7
Sample Summary	9
Executive Summary	10
Method Summary	14
Method / Analyst Summary	15
Sample Datasheets	16
Surrogate Summary	83
QC Data Summary	85
Data Qualifiers	100
QC Association Summary	101
Lab Chronicle	104
Certification Summary	111
Organic Sample Data	112
GC/MS VOA	112
Method 8260B	112
Method 8260B QC Summary	113
Method 8260B Sample Data	130
Standards Data	357
Method 8260B ICAL Data	357
Method 8260B CCAL Data	392
Raw QC Data	418
Method 8260B Tune Data	418
Method 8260B Blank Data	430

Table of Contents

Method 8260B LCS/LCSD Data	448
Method 8260B MS/MSD Data	457
Method 8260B Run Logs	467
GC VOA	471
Method RSK-175	471
Method RSK-175 QC Summary	472
Method RSK-175 Sample Data	475
Standards Data	496
Method RSK-175 ICAL Data	496
Method RSK-175 CCAL Data	515
Raw QC Data	524
Method RSK-175 Blank Data	524
Method RSK-175 LCS/LCSD Data	527
Method RSK-175 Run Logs	534
Inorganic Sample Data	536
General Chemistry Data	536
Gen Chem Cover Page	537
Gen Chem Sample Data	538
Gen Chem QC Data	546
Gen Chem ICV/CCV	546
Gen Chem Blanks	550
Gen Chem MS/MSD/PDS	551
Gen Chem Duplicates	552
Gen Chem LCS/LCSD	553
Gen Chem MDL	554
Gen Chem Analysis Run Log	562

Table of Contents

Gen Chem Raw Data	574
Gen Chem Prep Data	631
Shipping and Receiving Documents	636
Client Chain of Custody	637
Sample Receipt Checklist	639

Job Narrative
480-10504-1

Comments

No additional comments.

Receipt

The following samples were received with greater than 50% of holding time expired or already expired: . As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

All other samples were received in good condition within temperature requirements.

GC/MS VOA

Method(s) 8260B: The following samples were diluted due to the abundance of target analytes: PZ-5 DL (480-10504-16 DL), PZ-8 DL (480-10504-17 DL). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: (480-10504-2 MS), (480-10504-2 MSD), A2-PZ1 DL (480-10504-2 DL), A2-PZ7 DL (480-10504-3 DL). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample(s) was diluted due to the abundance of target analytes: A2-PZ1 DL (480-10504-2 DL). Elevated reporting limits (RLs) are provided. Due to the high level of dilution needed for other target analytes, the analyte Dichlorodifluoromethane was diluted out of the sample.

No other analytical or quality issues were noted.

GC VOA

Method(s) RSK-175: The following samples were diluted due to the abundance of target analytes: A1-PZ2 (480-10504-7), A2-PZ1 (480-10504-2), DUP-092811 (480-10504-22), MW-10 (480-10504-20), PZ-13R (480-10504-9). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

General Chemistry

Method(s) SM 2320B: The matrix spike (MS) recovery for batch 34365 was outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. (480-10504-9 MS)

Method(s) 353.2: The following sample(s) were received outside of holding time: A1-PZ2 (480-10504-7), A2-PZ1 (480-10504-2), DUP-092811 (480-10504-22), MW-1 (480-10504-12), MW-3 (480-10504-13), PZ-13R (480-10504-23).

Method(s) 9038, D516-90, 02: The method blank for batch 35511 contained sulfate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. 01FB (480-10435-1), 01FB (480-10567-2), A1-PZ2 (480-10504-7), A2-PZ1 (480-10504-2), MW03U (480-10567-3), MW04BR (480-10441-5), MW05A (480-10440-5), PZ-13R (480-10504-9)

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5973S Analysis Batch Number: 32019Lab Sample ID: STD 480-32019/3 IC Client Sample ID: _____Date Analyzed: 09/20/11 14:39 Lab File ID: S6121.D GC Column: ZB-624 (60) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Bromomethane	1.76	Assign Peak	coderd	09/21/11 09:26

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5890-21 Analysis Batch Number: 33781Lab Sample ID: LCS 480-33781/6 Client Sample ID: _____Date Analyzed: 10/03/11 19:22 Lab File ID: 21_24271.D GC Column: RTX-U Plot ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.56	Split Peak	michalej	10/03/11 19:58

Lab Sample ID: CCV 480-33781/16 Client Sample ID: _____Date Analyzed: 10/03/11 23:39 Lab File ID: 21_25002.D GC Column: RTX-U Plot ID: 0.32 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Methane	1.56	Incomplete Integration	michalej	10/03/11 23:51

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-10504-1	PZ-26	Water	09/26/2011 1135	09/30/2011 1000
480-10504-2	A2-PZ1	Water	09/26/2011 1540	09/30/2011 1000
480-10504-3	A2-PZ7	Water	09/26/2011 1605	09/30/2011 1000
480-10504-4	PZ-27	Water	09/27/2011 1015	09/30/2011 1000
480-10504-5	MW-4	Water	09/27/2011 1055	09/30/2011 1000
480-10504-6	MW-13S	Water	09/27/2011 1135	09/30/2011 1000
480-10504-7	A1-PZ2	Water	09/27/2011 1205	09/30/2011 1000
480-10504-8	PZ-18	Water	09/27/2011 1235	09/30/2011 1000
480-10504-9	PZ-13R	Water	09/27/2011 1255	09/30/2011 1000
480-10504-10	MW-2	Water	09/27/2011 1805	09/30/2011 1000
480-10504-11	MW-5	Water	09/28/2011 1425	09/30/2011 1000
480-10504-12	MW-1	Water	09/28/2011 1455	09/30/2011 1000
480-10504-13	MW-3	Water	09/28/2011 1655	09/30/2011 1000
480-10504-14	PZ-7	Water	09/28/2011 1800	09/30/2011 1000
480-10504-15	PZ-6	Water	09/28/2011 1825	09/30/2011 1000
480-10504-16	PZ-5	Water	09/28/2011 1850	09/30/2011 1000
480-10504-17	PZ-8	Water	09/28/2011 1915	09/30/2011 1000
480-10504-18	MW-14BR	Water	09/29/2011 1015	09/30/2011 1000
480-10504-19	PZ-11R	Water	09/29/2011 1115	09/30/2011 1000
480-10504-20	MW-10	Water	09/29/2011 1245	09/30/2011 1000
480-10504-21TB	TB-092911	Water	09/28/2011 0000	09/30/2011 1000
480-10504-22	DUP-092811	Water	09/28/2011 0000	09/30/2011 1000
480-10504-23	PZ-13R	Water	09/28/2011 1620	09/30/2011 1000

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-10504-2	A2-PZ1					
1,1,2-Trichloroethane		3.0		1.0	ug/L	8260B
1,1,2-Trichloro-1,2,2-trifluoroethane		440	J	500	ug/L	8260B
1,1-Dichloroethane		1900		500	ug/L	8260B
1,1-Dichloroethene		45		1.0	ug/L	8260B
1,2-Dichloroethane		5.1		1.0	ug/L	8260B
4-Methyl-2-pentanone (MIBK)		6.2		5.0	ug/L	8260B
Acetone		9.5	J	10	ug/L	8260B
Benzene		0.52	J	1.0	ug/L	8260B
Carbon disulfide		1.2		1.0	ug/L	8260B
cis-1,2-Dichloroethene		27000		500	ug/L	8260B
Dichlorodifluoromethane		960	E	1.0	ug/L	8260B
Tetrachloroethene		4.6		1.0	ug/L	8260B
Toluene		5.1		1.0	ug/L	8260B
trans-1,2-Dichloroethene		33		1.0	ug/L	8260B
Trichloroethene		2100		500	ug/L	8260B
Vinyl chloride		720		500	ug/L	8260B
Methane		1200		100	ug/L	RSK-175
Sulfate		36.2	B	10.0	mg/L	D516-90, 02
Alkalinity, Total		482		5.0	mg/L	SM 2320B
480-10504-3	A2-PZ7					
1,1-Dichloroethane		9.8		1.0	ug/L	8260B
1,1-Dichloroethene		0.73	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		120		8.0	ug/L	8260B
Tetrachloroethene		360		8.0	ug/L	8260B
Trichloroethene		280		8.0	ug/L	8260B
Vinyl chloride		6.5		1.0	ug/L	8260B
480-10504-5	MW-4					
1,1-Dichloroethane		0.70	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		3.3		1.0	ug/L	8260B
Vinyl chloride		1.4		1.0	ug/L	8260B
480-10504-6	MW-13S					
1,1-Dichloroethane		2.4		1.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-10504-7	A1-PZ2					
1,1-Dichloroethane		2.1		1.0	ug/L	8260B
Acetone		6.6	J	10	ug/L	8260B
cis-1,2-Dichloroethene		99		1.0	ug/L	8260B
Trichloroethene		1.7		1.0	ug/L	8260B
Vinyl chloride		27		1.0	ug/L	8260B
Methane		710		100	ug/L	RSK-175
Sulfate		2.4	J B	5.0	mg/L	D516-90, 02
Alkalinity, Total		425		5.0	mg/L	SM 2320B
480-10504-8	PZ-18					
cis-1,2-Dichloroethene		0.85	J	1.0	ug/L	8260B
480-10504-9	PZ-13R					
cis-1,2-Dichloroethene		2.4		1.0	ug/L	8260B
Tetrachloroethene		1.7		1.0	ug/L	8260B
Trichloroethene		5.5		1.0	ug/L	8260B
Methane		120		10	ug/L	RSK-175
Sulfate		42.1	B	25.0	mg/L	D516-90, 02
Alkalinity, Total		390		5.0	mg/L	SM 2320B
480-10504-10	MW-2					
1,1-Dichloroethane		5.9		1.0	ug/L	8260B
cis-1,2-Dichloroethene		13		1.0	ug/L	8260B
trans-1,2-Dichloroethene		2.0		1.0	ug/L	8260B
Vinyl chloride		33		1.0	ug/L	8260B
480-10504-11	MW-5					
1,1-Dichloroethane		0.69	J	1.0	ug/L	8260B
480-10504-12	MW-1					
1,1-Dichloroethane		5.8		1.0	ug/L	8260B
cis-1,2-Dichloroethene		40		1.0	ug/L	8260B
Tetrachloroethene		77		1.0	ug/L	8260B
Trichloroethene		18		1.0	ug/L	8260B
Vinyl chloride		3.1		1.0	ug/L	8260B
Methane		130		1.0	ug/L	RSK-175
Nitrate as N		0.73	H	0.050	mg/L	353.2
Sulfate		166	B	25.0	mg/L	D516-90, 02
Alkalinity, Total		338		5.0	mg/L	SM 2320B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-10504-13	MW-3					
1,1-Dichloroethane		6.8		1.0	ug/L	8260B
1,1-Dichloroethene		0.57	J	1.0	ug/L	8260B
cis-1,2-Dichloroethene		68		1.0	ug/L	8260B
Tetrachloroethene		9.2		1.0	ug/L	8260B
Trichloroethene		16		1.0	ug/L	8260B
Vinyl chloride		5.0		1.0	ug/L	8260B
Methane		57		1.0	ug/L	RSK-175
Nitrate as N		0.091	H	0.050	mg/L	353.2
Sulfate		160	B	25.0	mg/L	D516-90, 02
Alkalinity, Total		356		5.0	mg/L	SM 2320B
480-10504-14	PZ-7					
1,1-Dichloroethane		0.83	J	1.0	ug/L	8260B
Trichloroethene		0.58	J	1.0	ug/L	8260B
480-10504-15	PZ-6					
cis-1,2-Dichloroethene		20		1.0	ug/L	8260B
Tetrachloroethene		72		1.0	ug/L	8260B
Trichloroethene		20		1.0	ug/L	8260B
480-10504-16	PZ-5					
Acetone		3.1	J	10	ug/L	8260B
cis-1,2-Dichloroethene		53		1.0	ug/L	8260B
Tetrachloroethene		59		1.0	ug/L	8260B
Trichloroethene		91		2.0	ug/L	8260B
Xylenes, Total		0.70	J	2.0	ug/L	8260B
480-10504-17	PZ-8					
1,1-Dichloroethane		4.8		1.0	ug/L	8260B
cis-1,2-Dichloroethene		77		1.0	ug/L	8260B
Tetrachloroethene		350		5.0	ug/L	8260B
Trichloroethene		290		5.0	ug/L	8260B
480-10504-18	MW-14BR					
Acetone		16		10	ug/L	8260B
Methylene Chloride		0.57	J	1.0	ug/L	8260B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-10504-19	PZ-11R					
cis-1,2-Dichloroethene		5.0		1.0	ug/L	8260B
Tetrachloroethene		5.5		1.0	ug/L	8260B
Trichloroethene		9.0		1.0	ug/L	8260B
480-10504-20	MW-10					
1,1-Dichloroethane		2.6		1.0	ug/L	8260B
cis-1,2-Dichloroethene		53		1.0	ug/L	8260B
trans-1,2-Dichloroethene		3.4		1.0	ug/L	8260B
Trichloroethene		2.5		1.0	ug/L	8260B
Vinyl chloride		23		1.0	ug/L	8260B
Methane		97		10	ug/L	RSK-175
Sulfate		108	B	25.0	mg/L	D516-90, 02
Alkalinity, Total		211		5.0	mg/L	SM 2320B
480-10504-22	DUP-092811					
1,1-Dichloroethane		5.5		1.0	ug/L	8260B
cis-1,2-Dichloroethene		39		1.0	ug/L	8260B
Tetrachloroethene		81		1.0	ug/L	8260B
trans-1,2-Dichloroethene		1.3		1.0	ug/L	8260B
Trichloroethene		19		1.0	ug/L	8260B
Vinyl chloride		3.0		1.0	ug/L	8260B
Methane		66		10	ug/L	RSK-175
Nitrate as N		0.76	H	0.050	mg/L	353.2
Sulfate		167	B	25.0	mg/L	D516-90, 02
Alkalinity, Total		337		5.0	mg/L	SM 2320B
480-10504-23	PZ-13R					
Nitrate as N		0.063	H	0.050	mg/L	353.2

METHOD SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Description		Lab Location	Method	Preparation Method
Matrix	Water			
Volatile Organic Compounds (GC/MS)		TAL BUF	SW846 8260B	
Purge and Trap		TAL BUF		SW846 5030B
Dissolved Gases (GC)		TAL BUF	RSK RSK-175	
Nitrate		TAL BUF	EPA 353.2	
Sulfate		TAL BUF	ASTM D516-90, 02	
Alkalinity		TAL BUF	SM SM 2320B	

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method	Analyst	Analyst ID
SW846 8260B	Byrnes, Jennifer M	JMB
SW846 8260B	Coder, David	DC
RSK RSK-175	Michalek, Jason	JM
EPA 353.2	Larson, Renee	RL
ASTM D516-90, 02	Nyznyk, Peter	PN
SM SM 2320B	Stredny, Joseph	JS

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-26

Lab Sample ID: 480-10504-1

Date Sampled: 09/26/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1126			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1126				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-26

Lab Sample ID: 480-10504-1

Date Sampled: 09/26/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1126			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1126				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	113		71 - 126
4-Bromofluorobenzene (Surr)	107		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	3.0		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1600	E	0.31	1.0
1,1-Dichloroethane	2000	E	0.38	1.0
1,1-Dichloroethene	45		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	5.1		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	6.2		2.1	5.0
Acetone	9.5	J	3.0	10
Benzene	0.52	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	1.2		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	5600	E	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	960	E	0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	4.6		0.36	1.0
Toluene	5.1		0.51	1.0
trans-1,2-Dichloroethene	33		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	1700	E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1300	E	0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	120		71 - 126
4-Bromofluorobenzene (Surr)	117		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6704.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1906	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1906				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		410	500
1,1,2,2-Tetrachloroethane	ND		110	500
1,1,2-Trichloroethane	ND		120	500
1,1,2-Trichloro-1,2,2-trifluoroethane	440	J	160	500
1,1-Dichloroethane	1900		190	500
1,1-Dichloroethene	ND		150	500
1,2,4-Trichlorobenzene	ND		210	500
1,2-Dibromo-3-Chloropropane	ND		200	500
1,2-Dibromoethane	ND		370	500
1,2-Dichlorobenzene	ND		400	500
1,2-Dichloroethane	ND		110	500
1,2-Dichloropropane	ND		360	500
1,3-Dichlorobenzene	ND		390	500
1,4-Dichlorobenzene	ND		420	500
2-Hexanone	ND		620	2500
2-Butanone (MEK)	ND		660	5000
4-Methyl-2-pentanone (MIBK)	ND		1100	2500
Acetone	ND		1500	5000
Benzene	ND		210	500
Bromodichloromethane	ND		200	500
Bromoform	ND		130	500
Bromomethane	ND		350	500
Carbon disulfide	ND		95	500
Carbon tetrachloride	ND		140	500
Chlorobenzene	ND		380	500
Dibromochloromethane	ND		160	500
Chloroethane	ND		160	500
Chloroform	ND		170	500
Chloromethane	ND		180	500
cis-1,2-Dichloroethene	27000		410	500
cis-1,3-Dichloropropene	ND		180	500
Cyclohexane	ND		90	500
Dichlorodifluoromethane	ND		340	500
Ethylbenzene	ND		370	500
Isopropylbenzene	ND		400	500
Methyl acetate	ND		250	500
Methyl tert-butyl ether	ND		80	500
Methylcyclohexane	ND		80	500
Methylene Chloride	ND		220	500
Styrene	ND		370	500
Tetrachloroethene	ND		180	500
Toluene	ND		260	500
trans-1,2-Dichloroethene	ND		450	500
trans-1,3-Dichloropropene	ND		190	500
Trichloroethene	2100		230	500
Trichlorofluoromethane	ND		440	500

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6704.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1906	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1906				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	720		450	500
Xylenes, Total	ND		330	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Client Matrix: Water

Date Sampled: 09/26/2011 1605

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6670.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1643			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	9.8		0.38	1.0
1,1-Dichloroethene	0.73	J	0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	140	E	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	450	E	0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	340	E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6670.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1643			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	6.5		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	112		71 - 126
4-Bromofluorobenzene (Surr)	109		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6705.D
Dilution:	8.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1928	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		6.6	8.0
1,1,2,2-Tetrachloroethane	ND		1.7	8.0
1,1,2-Trichloroethane	ND		1.8	8.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	8.0
1,1-Dichloroethane	8.7		3.0	8.0
1,1-Dichloroethene	ND		2.3	8.0
1,2,4-Trichlorobenzene	ND		3.3	8.0
1,2-Dibromo-3-Chloropropane	ND		3.1	8.0
1,2-Dibromoethane	ND		5.8	8.0
1,2-Dichlorobenzene	ND		6.3	8.0
1,2-Dichloroethane	ND		1.7	8.0
1,2-Dichloropropane	ND		5.8	8.0
1,3-Dichlorobenzene	ND		6.2	8.0
1,4-Dichlorobenzene	ND		6.7	8.0
2-Hexanone	ND		9.9	40
2-Butanone (MEK)	ND		11	80
4-Methyl-2-pentanone (MIBK)	ND		17	40
Acetone	ND		24	80
Benzene	ND		3.3	8.0
Bromodichloromethane	ND		3.1	8.0
Bromoform	ND		2.1	8.0
Bromomethane	ND		5.5	8.0
Carbon disulfide	ND		1.5	8.0
Carbon tetrachloride	ND		2.2	8.0
Chlorobenzene	ND		6.0	8.0
Dibromochloromethane	ND		2.6	8.0
Chloroethane	ND		2.6	8.0
Chloroform	ND		2.7	8.0
Chloromethane	ND		2.8	8.0
cis-1,2-Dichloroethene	120		6.5	8.0
cis-1,3-Dichloropropene	ND		2.9	8.0
Cyclohexane	ND		1.4	8.0
Dichlorodifluoromethane	ND		5.4	8.0
Ethylbenzene	ND		5.9	8.0
Isopropylbenzene	ND		6.3	8.0
Methyl acetate	ND		4.0	8.0
Methyl tert-butyl ether	ND		1.3	8.0
Methylcyclohexane	ND		1.3	8.0
Methylene Chloride	ND		3.5	8.0
Styrene	ND		5.8	8.0
Tetrachloroethene	360		2.9	8.0
Toluene	ND		4.1	8.0
trans-1,2-Dichloroethene	ND		7.2	8.0
trans-1,3-Dichloropropene	ND		3.0	8.0
Trichloroethene	280		3.7	8.0
Trichlorofluoromethane	ND		7.0	8.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6705.D
Dilution:	8.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1928	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		7.2	8.0
Xylenes, Total	ND		5.3	16

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	124		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	114		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-27

Lab Sample ID: 480-10504-4

Date Sampled: 09/27/2011 1015

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6671.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1705			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-27

Lab Sample ID: 480-10504-4

Date Sampled: 09/27/2011 1015

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6671.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1705			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
Toluene-d8 (Surr)	115		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-4

Lab Sample ID: 480-10504-5

Date Sampled: 09/27/2011 1055

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6636.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1254			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.70	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	3.3		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-4

Lab Sample ID: 480-10504-5

Date Sampled: 09/27/2011 1055

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6636.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1254			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.4		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	119		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-13S

Lab Sample ID: 480-10504-6

Date Sampled: 09/27/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6637.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1317			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.4		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-13S

Lab Sample ID: 480-10504-6

Date Sampled: 09/27/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6637.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1317			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	112		71 - 126
4-Bromofluorobenzene (Surr)	109		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Client Matrix: Water

Date Sampled: 09/27/2011 1205

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6638.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1339			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1339				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.1		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	6.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	99		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	1.7		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6638.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1339			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1339				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	27		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-18

Lab Sample ID: 480-10504-8

Client Matrix: Water

Date Sampled: 09/27/2011 1235

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6639.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1401			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1401				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	0.85	J	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-18

Lab Sample ID: 480-10504-8

Date Sampled: 09/27/2011 1235

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6639.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1401			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1401				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6640.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1423			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	2.4		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	1.7		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	5.5		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6640.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1423			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-2

Lab Sample ID: 480-10504-10

Date Sampled: 09/27/2011 1805

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6641.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.9		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	13		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	2.0		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-2

Lab Sample ID: 480-10504-10

Date Sampled: 09/27/2011 1805

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6641.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	33		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-5

Lab Sample ID: 480-10504-11

Date Sampled: 09/28/2011 1425

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6642.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1508			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.69	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-5

Lab Sample ID: 480-10504-11

Date Sampled: 09/28/2011 1425

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6642.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1508			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	119		71 - 126
4-Bromofluorobenzene (Surr)	115		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6643.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1530			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.8		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	40		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	77		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	18		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6643.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1530			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	3.1		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Client Matrix: Water

Date Sampled: 09/28/2011 1655

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1552				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	6.8		0.38	1.0
1,1-Dichloroethene	0.57	J	0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	68		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	9.2		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	16		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1552				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	5.0		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-7

Lab Sample ID: 480-10504-14

Client Matrix: Water

Date Sampled: 09/28/2011 1800

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1614			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1614				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.83	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	0.58	J	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-7

Lab Sample ID: 480-10504-14

Date Sampled: 09/28/2011 1800

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1614			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1614				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-6

Lab Sample ID: 480-10504-15

Date Sampled: 09/28/2011 1825

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1636			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	20		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	72		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	20		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-6

Lab Sample ID: 480-10504-15

Date Sampled: 09/28/2011 1825

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1636			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	117		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Client Matrix: Water

Date Sampled: 09/28/2011 1850

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	3.1	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	53		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	59		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	120	E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	0.70	J	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		66 - 137
Toluene-d8 (Surr)	121		71 - 126
4-Bromofluorobenzene (Surr)	119		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6672.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1727	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.6	2.0
1,1,2,2-Tetrachloroethane	ND		0.42	2.0
1,1,2-Trichloroethane	ND		0.46	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.62	2.0
1,1-Dichloroethane	ND		0.76	2.0
1,1-Dichloroethene	ND		0.58	2.0
1,2,4-Trichlorobenzene	ND		0.82	2.0
1,2-Dibromo-3-Chloropropane	ND		0.78	2.0
1,2-Dibromoethane	ND		1.5	2.0
1,2-Dichlorobenzene	ND		1.6	2.0
1,2-Dichloroethane	ND		0.42	2.0
1,2-Dichloropropane	ND		1.4	2.0
1,3-Dichlorobenzene	ND		1.6	2.0
1,4-Dichlorobenzene	ND		1.7	2.0
2-Hexanone	ND		2.5	10
2-Butanone (MEK)	ND		2.6	20
4-Methyl-2-pentanone (MIBK)	ND		4.2	10
Acetone	ND		6.0	20
Benzene	ND		0.82	2.0
Bromodichloromethane	ND		0.78	2.0
Bromoform	ND		0.52	2.0
Bromomethane	ND		1.4	2.0
Carbon disulfide	ND		0.38	2.0
Carbon tetrachloride	ND		0.54	2.0
Chlorobenzene	ND		1.5	2.0
Dibromochloromethane	ND		0.64	2.0
Chloroethane	ND		0.64	2.0
Chloroform	ND		0.68	2.0
Chloromethane	ND		0.70	2.0
cis-1,2-Dichloroethene	43		1.6	2.0
cis-1,3-Dichloropropene	ND		0.72	2.0
Cyclohexane	ND		0.36	2.0
Dichlorodifluoromethane	ND		1.4	2.0
Ethylbenzene	ND		1.5	2.0
Isopropylbenzene	ND		1.6	2.0
Methyl acetate	ND		1.0	2.0
Methyl tert-butyl ether	ND		0.32	2.0
Methylcyclohexane	ND		0.32	2.0
Methylene Chloride	ND		0.88	2.0
Styrene	ND		1.5	2.0
Tetrachloroethene	45		0.72	2.0
Toluene	ND		1.0	2.0
trans-1,2-Dichloroethene	ND		1.8	2.0
trans-1,3-Dichloropropene	ND		0.74	2.0
Trichloroethene	91		0.92	2.0
Trichlorofluoromethane	ND		1.8	2.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6672.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1727	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		1.8	2.0
Xylenes, Total	ND		1.3	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	115		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Client Matrix: Water

Date Sampled: 09/28/2011 1915

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1721			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	4.8		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	77		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	350	E	0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	310	E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1721			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	114		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6673.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1749	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1749				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	5.0
1,1-Dichloroethane	4.3	J	1.9	5.0
1,1-Dichloroethene	ND		1.5	5.0
1,2,4-Trichlorobenzene	ND		2.1	5.0
1,2-Dibromo-3-Chloropropane	ND		2.0	5.0
1,2-Dibromoethane	ND		3.7	5.0
1,2-Dichlorobenzene	ND		4.0	5.0
1,2-Dichloroethane	ND		1.1	5.0
1,2-Dichloropropane	ND		3.6	5.0
1,3-Dichlorobenzene	ND		3.9	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
2-Hexanone	ND		6.2	25
2-Butanone (MEK)	ND		6.6	50
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	ND		15	50
Benzene	ND		2.1	5.0
Bromodichloromethane	ND		2.0	5.0
Bromoform	ND		1.3	5.0
Bromomethane	ND		3.5	5.0
Carbon disulfide	ND		0.95	5.0
Carbon tetrachloride	ND		1.4	5.0
Chlorobenzene	ND		3.8	5.0
Dibromochloromethane	ND		1.6	5.0
Chloroethane	ND		1.6	5.0
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	68		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	5.0
Dichlorodifluoromethane	ND		3.4	5.0
Ethylbenzene	ND		3.7	5.0
Isopropylbenzene	ND		4.0	5.0
Methyl acetate	ND		2.5	5.0
Methyl tert-butyl ether	ND		0.80	5.0
Methylcyclohexane	ND		0.80	5.0
Methylene Chloride	ND		2.2	5.0
Styrene	ND		3.7	5.0
Tetrachloroethene	350		1.8	5.0
Toluene	ND		2.6	5.0
trans-1,2-Dichloroethene	ND		4.5	5.0
trans-1,3-Dichloropropene	ND		1.9	5.0
Trichloroethene	290		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6673.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1749	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1749				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.5	5.0
Xylenes, Total	ND		3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	117		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-14BR

Lab Sample ID: 480-10504-18

Client Matrix: Water

Date Sampled: 09/29/2011 1015

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6649.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1742				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	16		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	0.57	J	0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-14BR

Lab Sample ID: 480-10504-18

Date Sampled: 09/29/2011 1015

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6649.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1742				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
Toluene-d8 (Surr)	120		71 - 126
4-Bromofluorobenzene (Surr)	114		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-11R

Lab Sample ID: 480-10504-19

Date Sampled: 09/29/2011 1115

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6650.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1805			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	5.0		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	5.5		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	9.0		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-11R

Lab Sample ID: 480-10504-19

Date Sampled: 09/29/2011 1115

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6650.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1805			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6651.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.6		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	53		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	3.4		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	2.5		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6651.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	23		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: TB-092911

Lab Sample ID: 480-10504-21TB

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6652.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1849			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1849				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: TB-092911

Lab Sample ID: 480-10504-21TB

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6652.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1849			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1849				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6653.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1910			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.5		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	39		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	81		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	1.3		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	19		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6653.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1910			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	3.0		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	100			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 1949			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	1200		22	100

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	100			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2003			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	710		22	100

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	10			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2017			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	120		2.2	10

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2030			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	130		0.22	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2044			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	57		0.22	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	10			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2058			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	97		2.2	10

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	10			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2112			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	66		2.2	10

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2343					
Sulfate	36.2	B	mg/L	3.0	10.0	2.0	D516-90, 02
	Analysis Batch: 480-35511	Analysis Date: 10/14/2011 1241					
Alkalinity, Total	482		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34365	Analysis Date: 10/06/2011 1823					

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID:** A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2344					
Sulfate	2.4	J B	mg/L	1.5	5.0	1.0	D516-90, 02
	Analysis Batch: 480-35511	Analysis Date: 10/14/2011 1249					
Alkalinity, Total	425		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34365	Analysis Date: 10/06/2011 1851					

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	42.1	B	mg/L	7.5	25.0	5.0	D516-90, 02
Analysis Batch: 480-35511 Analysis Date: 10/14/2011 1340							
Alkalinity, Total	390		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-34365 Analysis Date: 10/06/2011 1832							

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID:** MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.73	H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2346					
Sulfate	166	B	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1033					
Alkalinity, Total	338		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1641					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID: MW-3**

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.091	H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2347					
Sulfate	160	B	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1030					
Alkalinity, Total	356		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1650					

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID: MW-10**

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND		mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2348					
Sulfate	108	B	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1030					
Alkalinity, Total	211		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1724					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID:** DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.76	H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2349					
Sulfate	167	B	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1030					
Alkalinity, Total	337		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1632					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry**Client Sample ID:** PZ-13R

Lab Sample ID: 480-10504-23

Date Sampled: 09/28/2011 1620

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.063	H	mg/L	0.011	0.050	1.0	353.2

Analysis Batch: 480-34144 Analysis Date: 09/30/2011 2350

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
480-10504-1	PZ-26	117	113	107
480-10504-2	A2-PZ1	112	120	117
480-10504-2 DL	A2-PZ1 DL	122	118	112
480-10504-3	A2-PZ7	120	112	109
480-10504-3 DL	A2-PZ7 DL	124	116	114
480-10504-4	PZ-27	121	115	113
480-10504-5	MW-4	117	119	112
480-10504-6	MW-13S	116	112	109
480-10504-7	A1-PZ2	119	116	112
480-10504-8	PZ-18	116	116	111
480-10504-9	PZ-13R	119	118	113
480-10504-10	MW-2	116	116	112
480-10504-11	MW-5	120	119	115
480-10504-12	MW-1	118	116	112
480-10504-13	MW-3	118	116	111
480-10504-14	PZ-7	117	116	111
480-10504-15	PZ-6	119	117	112
480-10504-16	PZ-5	127	121	119
480-10504-16 DL	PZ-5 DL	120	115	113
480-10504-17	PZ-8	120	114	113
480-10504-17 DL	PZ-8 DL	119	117	112
480-10504-18	MW-14BR	122	120	114
480-10504-19	PZ-11R	120	118	113
480-10504-20	MW-10	120	116	113
480-10504-21	TB-092911	120	118	112
480-10504-22	DUP-092811	120	118	112
MB 480-34016/5		114	115	109
MB 480-34202/5		118	116	114
MB 480-34409/5		124	120	117

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
LCS 480-34016/4		113	114	109
LCS 480-34202/4		116	116	114
LCS 480-34409/4		120	118	117
480-10504-2 MS	A2-PZ1 MS	121	117	117
480-10504-2 MSD	A2-PZ1 MSD	120	116	114

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34016

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 480-34016/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 10/05/2011 1052
 Prep Date: 10/05/2011 1052
 Leach Date: N/A

Analysis Batch: 480-34016
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973S
 Lab File ID: S6631.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34016

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 480-34016/5	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6631.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1052	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1052				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114	66 - 137
Toluene-d8 (Surr)	115	71 - 126
4-Bromofluorobenzene (Surr)	109	73 - 120

Lab Control Sample - Batch: 480-34016

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 480-34016/4	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6630.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1030	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1030				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	24.8	99	71 - 129	
1,1-Dichloroethene	25.0	22.6	90	65 - 138	
1,2-Dichlorobenzene	25.0	24.4	98	77 - 120	
1,2-Dichloroethane	25.0	24.7	99	75 - 127	
Benzene	25.0	24.2	97	71 - 124	
Chlorobenzene	25.0	24.8	99	72 - 120	
cis-1,2-Dichloroethene	25.0	23.9	96	74 - 124	
Ethylbenzene	25.0	25.0	100	77 - 123	
Methyl tert-butyl ether	25.0	23.6	94	64 - 127	
Tetrachloroethene	25.0	24.1	96	74 - 122	
Toluene	25.0	24.3	97	70 - 122	
trans-1,2-Dichloroethene	25.0	24.6	98	73 - 127	
Trichloroethene	25.0	24.0	96	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113	66 - 137
Toluene-d8 (Surr)	114	71 - 126
4-Bromofluorobenzene (Surr)	109	73 - 120

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34202

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 480-34202/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 10/06/2011 1215
 Prep Date: 10/06/2011 1215
 Leach Date: N/A

Analysis Batch: 480-34202
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973S
 Lab File ID: S6658.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34202

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 480-34202/5	Analysis Batch: 480-34202	Instrument ID: HP5973S
Client Matrix: Water	Prep Batch: N/A	Lab File ID: S6658.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 10/06/2011 1215	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 10/06/2011 1215		
Leach Date: N/A		

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118	66 - 137
Toluene-d8 (Surr)	116	71 - 126
4-Bromofluorobenzene (Surr)	114	73 - 120

Lab Control Sample - Batch: 480-34202

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 480-34202/4	Analysis Batch: 480-34202	Instrument ID: HP5973S
Client Matrix: Water	Prep Batch: N/A	Lab File ID: S6657.D
Dilution: 1.0	Leach Batch: N/A	Initial Weight/Volume: 5 mL
Analysis Date: 10/06/2011 1153	Units: ug/L	Final Weight/Volume: 5 mL
Prep Date: 10/06/2011 1153		
Leach Date: N/A		

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.2	101	71 - 129	
1,1-Dichloroethene	25.0	23.3	93	65 - 138	
1,2-Dichlorobenzene	25.0	25.6	102	77 - 120	
1,2-Dichloroethane	25.0	26.8	107	75 - 127	
Benzene	25.0	24.6	98	71 - 124	
Chlorobenzene	25.0	26.1	104	72 - 120	
cis-1,2-Dichloroethene	25.0	24.5	98	74 - 124	
Ethylbenzene	25.0	26.2	105	77 - 123	
Methyl tert-butyl ether	25.0	23.6	94	64 - 127	
Tetrachloroethene	25.0	26.4	106	74 - 122	
Toluene	25.0	25.5	102	70 - 122	
trans-1,2-Dichloroethene	25.0	25.4	102	73 - 127	
Trichloroethene	25.0	25.3	101	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116	66 - 137
Toluene-d8 (Surr)	116	71 - 126
4-Bromofluorobenzene (Surr)	114	73 - 120

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34409

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 480-34409/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 10/07/2011 1216
 Prep Date: 10/07/2011 1216
 Leach Date: N/A

Analysis Batch: 480-34409
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5973S
 Lab File ID: S6686.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34409

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 480-34409/5	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6686.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1216	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1216				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Trichlorofluoromethane	ND		0.88	1.0
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	124	66 - 137
Toluene-d8 (Surr)	120	71 - 126
4-Bromofluorobenzene (Surr)	117	73 - 120

Lab Control Sample - Batch: 480-34409

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 480-34409/4	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6685.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1154	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1154				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1-Dichloroethane	25.0	25.1	100	71 - 129	
1,1-Dichloroethene	25.0	22.6	90	65 - 138	
1,2-Dichlorobenzene	25.0	25.3	101	77 - 120	
1,2-Dichloroethane	25.0	27.3	109	75 - 127	
Benzene	25.0	24.2	97	71 - 124	
Chlorobenzene	25.0	25.7	103	72 - 120	
cis-1,2-Dichloroethene	25.0	24.5	98	74 - 124	
Ethylbenzene	25.0	26.1	104	77 - 123	
Methyl tert-butyl ether	25.0	23.6	94	64 - 127	
Tetrachloroethene	25.0	26.1	104	74 - 122	
Toluene	25.0	24.8	99	70 - 122	
trans-1,2-Dichloroethene	25.0	25.8	103	73 - 127	
Trichloroethene	25.0	25.0	100	74 - 123	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120	66 - 137
Toluene-d8 (Surr)	118	71 - 126
4-Bromofluorobenzene (Surr)	117	73 - 120

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-34409**

**Method: 8260B
Preparation: 5030B**

MS Lab Sample ID:	480-10504-2	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6707.D
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 2012			Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 2012				
Leach Date:	N/A				

MSD Lab Sample ID:	480-10504-2	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	S6708.D
Dilution:	500	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 2035			Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 2035				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
1,1-Dichloroethane	97	100	71 - 129	3	20		
1,1-Dichloroethene	82	90	65 - 138	9	16		
1,2-Dichlorobenzene	102	104	77 - 120	1	20		
1,2-Dichloroethane	109	112	75 - 127	2	20		
Benzene	97	98	71 - 124	2	13		
Chlorobenzene	106	107	72 - 120	2	25		
cis-1,2-Dichloroethene	76	81	74 - 124	1	15		
Ethylbenzene	106	107	77 - 123	1	15		
Methyl tert-butyl ether	89	90	64 - 127	1	37		
Tetrachloroethene	106	108	74 - 122	2	20		
Toluene	102	104	70 - 122	2	15		
trans-1,2-Dichloroethene	100	103	73 - 127	3	20		
Trichloroethene	98	101	74 - 123	2	16		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	121		120	66 - 137			
Toluene-d8 (Surr)	117		116	71 - 126			
4-Bromofluorobenzene (Surr)	117		114	73 - 120			

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 480-34409

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 480-10504-2 Units: ug/L
 Client Matrix: Water
 Dilution: 500
 Analysis Date: 10/07/2011 2012
 Prep Date: 10/07/2011 2012
 Leach Date: N/A

MSD Lab Sample ID: 480-10504-2
 Client Matrix: Water
 Dilution: 500
 Analysis Date: 10/07/2011 2035
 Prep Date: 10/07/2011 2035
 Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
1,1-Dichloroethane	1900	12500	12500	14100	14500
1,1-Dichloroethene	ND	12500	12500	10300	11300
1,2-Dichlorobenzene	ND	12500	12500	12800	13000
1,2-Dichloroethane	ND	12500	12500	13700	14000
Benzene	ND	12500	12500	12100	12300
Chlorobenzene	ND	12500	12500	13200	13400
cis-1,2-Dichloroethene	27000	12500	12500	36400	37000
Ethylbenzene	ND	12500	12500	13200	13400
Methyl tert-butyl ether	ND	12500	12500	11200	11300
Tetrachloroethene	ND	12500	12500	13300	13600
Toluene	ND	12500	12500	12800	13000
trans-1,2-Dichloroethene	ND	12500	12500	12500	12900
Trichloroethene	2100	12500	12500	14400	14700

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-33781

Method: RSK-175

Preparation: N/A

Lab Sample ID:	MB 480-33781/5	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21_24270.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	10/03/2011 1908	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	MDL	RL
Methane	ND		0.22	1.0

Lab Control Sample/

Method: RSK-175

Lab Control Sample Duplicate Recovery Report - Batch: 480-33781

Preparation: N/A

LCS Lab Sample ID:	LCS 480-33781/6	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21_24271.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	10/03/2011 1922	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-33781/15	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	21_24280.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	10/03/2011 2149	Units:	ug/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	91	70	67 - 140	26	50		

Laboratory Control/

Method: RSK-175

Laboratory Duplicate Data Report - Batch: 480-33781

Preparation: N/A

LCS Lab Sample ID:	LCS 480-33781/6	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-33781/15
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	10/03/2011 1922			Analysis Date:	10/03/2011 2149
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	7.69	7.69	6.99	5.37

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-35511

Method: D516-90, 02

Preparation: N/A

Lab Sample ID: MB 480-35511/44
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/14/2011 1205
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-35511
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: KONE3
Lab File ID: ACS10142011.xls
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Sulfate	1.85	J	1.5	5.0

Method Blank - Batch: 480-35511

Method: D516-90, 02

Preparation: N/A

Lab Sample ID: MB 480-35511/80
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/14/2011 1338
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-35511
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: KONE3
Lab File ID: ACS10142011.xls
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 2 mL

Analyte	Result	Qual	MDL	RL
Sulfate	2.01	J	1.5	5.0

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Control Sample - Batch: 480-35511

Method: D516-90, 02

Preparation: N/A

Lab Sample ID: LCS 480-35511/43
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/14/2011 1205
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-35511
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: KONE3
Lab File ID: ACS10142011.xls
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	30.0	31.03	103	90 - 110	

Lab Control Sample - Batch: 480-35511

Method: D516-90, 02

Preparation: N/A

Lab Sample ID: LCS 480-35511/79
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/14/2011 1338
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-35511
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: KONE3
Lab File ID: ACS10142011.xls
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 2 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	30.0	31.40	105	90 - 110	

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-35987

Method: D516-90, 02

Preparation: N/A

Lab Sample ID:	MB 480-35987/7	Analysis Batch:	480-35987	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10182011so4.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	10/18/2011 1014	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Sulfate	2.68	J	1.5	5.0

Lab Control Sample - Batch: 480-35987

Method: D516-90, 02

Preparation: N/A

Lab Sample ID:	LCS 480-35987/6	Analysis Batch:	480-35987	Instrument ID:	KONE1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	10182011so4.xls
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	10/18/2011 1014	Units:	mg/L	Final Weight/Volume:	2 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Sulfate	30.0	30.62	102	90 - 110	

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34365

Method: SM 2320B

Preparation: N/A

Lab Sample ID: MB 480-34365/29
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/06/2011 1737
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-34365
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: PC_Titrator
Lab File ID: ak100611.TXT
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	RL
Alkalinity, Total	ND		0.79	5.0

Lab Control Sample - Batch: 480-34365

Method: SM 2320B

Preparation: N/A

Lab Sample ID: LCS 480-34365/30
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/06/2011 1746
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-34365
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: PC_Titrator
Lab File ID: ak100611.TXT
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total	100	94.05	94	90 - 110	

Matrix Spike - Batch: 480-34365

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 480-10504-9
Client Matrix: Water
Dilution: 1.0
Analysis Date: 10/06/2011 1841
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 480-34365
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: PC_Titrator
Lab File ID: ak100611.TXT
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total	390	100	394.7	5	22 - 128	F

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Duplicate - Batch: 480-34365

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 480-10504-7

Analysis Batch: 480-34365

Instrument ID: PC_Titrator

Client Matrix: Water

Prep Batch: N/A

Lab File ID: ak100611.TXT

Dilution: 1.0

Leach Batch: N/A

Initial Weight/Volume: 25 mL

Analysis Date: 10/06/2011 1900

Units: mg/L

Final Weight/Volume: 25 mL

Prep Date: N/A

Leach Date: N/A

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Alkalinity, Total	425	437.4	3	20	

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Method Blank - Batch: 480-34618

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 480-34618/5	Analysis Batch:	480-34618	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak100711.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/07/2011 1453	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Alkalinity, Total	ND		0.79	5.0

Lab Control Sample - Batch: 480-34618

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	LCS 480-34618/6	Analysis Batch:	480-34618	Instrument ID:	PC_Titrator
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ak100711.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	25 mL
Analysis Date:	10/07/2011 1501	Units:	mg/L	Final Weight/Volume:	25 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Alkalinity, Total	100	93.57	94	90 - 110	

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Lab Section	Qualifier	Description
GC/MS VOA	E	Result exceeded calibration range.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
General Chemistry	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	H	Sample was prepped or analyzed beyond the specified holding time

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC/MS VOA					
Analysis Batch:480-34016					
LCS 480-34016/4	Lab Control Sample	T	Water	8260B	
MB 480-34016/5	Method Blank	T	Water	8260B	
480-10504-1	PZ-26	T	Water	8260B	
480-10504-2	A2-PZ1	T	Water	8260B	
480-10504-5	MW-4	T	Water	8260B	
480-10504-6	MW-13S	T	Water	8260B	
480-10504-7	A1-PZ2	T	Water	8260B	
480-10504-8	PZ-18	T	Water	8260B	
480-10504-9	PZ-13R	T	Water	8260B	
480-10504-10	MW-2	T	Water	8260B	
480-10504-11	MW-5	T	Water	8260B	
480-10504-12	MW-1	T	Water	8260B	
480-10504-13	MW-3	T	Water	8260B	
480-10504-14	PZ-7	T	Water	8260B	
480-10504-15	PZ-6	T	Water	8260B	
480-10504-16	PZ-5	T	Water	8260B	
480-10504-17	PZ-8	T	Water	8260B	
480-10504-18	MW-14BR	T	Water	8260B	
480-10504-19	PZ-11R	T	Water	8260B	
480-10504-20	MW-10	T	Water	8260B	
480-10504-21TB	TB-092911	T	Water	8260B	
480-10504-22	DUP-092811	T	Water	8260B	
Analysis Batch:480-34202					
LCS 480-34202/4	Lab Control Sample	T	Water	8260B	
MB 480-34202/5	Method Blank	T	Water	8260B	
480-10504-3	A2-PZ7	T	Water	8260B	
480-10504-4	PZ-27	T	Water	8260B	
480-10504-16DL	PZ-5	T	Water	8260B	
480-10504-17DL	PZ-8	T	Water	8260B	
Analysis Batch:480-34409					
LCS 480-34409/4	Lab Control Sample	T	Water	8260B	
MB 480-34409/5	Method Blank	T	Water	8260B	
480-10504-2DL	A2-PZ1	T	Water	8260B	
480-10504-2MS	Matrix Spike	T	Water	8260B	
480-10504-2MSD	Matrix Spike Duplicate	T	Water	8260B	
480-10504-3DL	A2-PZ7	T	Water	8260B	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
GC VOA					
Analysis Batch:480-33781					
LCS 480-33781/6	Lab Control Sample	T	Water	RSK-175	
LCSD 480-33781/15	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 480-33781/5	Method Blank	T	Water	RSK-175	
480-10504-2	A2-PZ1	T	Water	RSK-175	
480-10504-7	A1-PZ2	T	Water	RSK-175	
480-10504-9	PZ-13R	T	Water	RSK-175	
480-10504-12	MW-1	T	Water	RSK-175	
480-10504-13	MW-3	T	Water	RSK-175	
480-10504-20	MW-10	T	Water	RSK-175	
480-10504-22	DUP-092811	T	Water	RSK-175	

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report		Method	Prep Batch
		Basis	Client Matrix		
General Chemistry					
Analysis Batch:480-34144					
480-10504-2	A2-PZ1	T	Water	353.2	
480-10504-7	A1-PZ2	T	Water	353.2	
480-10504-12	MW-1	T	Water	353.2	
480-10504-13	MW-3	T	Water	353.2	
480-10504-20	MW-10	T	Water	353.2	
480-10504-22	DUP-092811	T	Water	353.2	
480-10504-23	PZ-13R	T	Water	353.2	
Analysis Batch:480-34365					
LCS 480-34365/30	Lab Control Sample	T	Water	SM 2320B	
MB 480-34365/29	Method Blank	T	Water	SM 2320B	
480-10504-2	A2-PZ1	T	Water	SM 2320B	
480-10504-7	A1-PZ2	T	Water	SM 2320B	
480-10504-7DU	Duplicate	T	Water	SM 2320B	
480-10504-9	PZ-13R	T	Water	SM 2320B	
480-10504-9MS	Matrix Spike	T	Water	SM 2320B	
Analysis Batch:480-34618					
LCS 480-34618/6	Lab Control Sample	T	Water	SM 2320B	
MB 480-34618/5	Method Blank	T	Water	SM 2320B	
480-10504-12	MW-1	T	Water	SM 2320B	
480-10504-13	MW-3	T	Water	SM 2320B	
480-10504-20	MW-10	T	Water	SM 2320B	
480-10504-22	DUP-092811	T	Water	SM 2320B	
Analysis Batch:480-35511					
LCS 480-35511/43	Lab Control Sample	T	Water	D516-90, 02	
LCS 480-35511/79	Lab Control Sample	T	Water	D516-90, 02	
MB 480-35511/44	Method Blank	T	Water	D516-90, 02	
MB 480-35511/80	Method Blank	T	Water	D516-90, 02	
480-10504-2	A2-PZ1	T	Water	D516-90, 02	
480-10504-7	A1-PZ2	T	Water	D516-90, 02	
480-10504-9	PZ-13R	T	Water	D516-90, 02	
Analysis Batch:480-35987					
LCS 480-35987/6	Lab Control Sample	T	Water	D516-90, 02	
MB 480-35987/7	Method Blank	T	Water	D516-90, 02	
480-10504-12	MW-1	T	Water	D516-90, 02	
480-10504-13	MW-3	T	Water	D516-90, 02	
480-10504-20	MW-10	T	Water	D516-90, 02	
480-10504-22	DUP-092811	T	Water	D516-90, 02	

Report Basis

T = Total

TestAmerica Buffalo

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-1

Client ID: PZ-26

Sample Date/Time: 09/26/2011 11:35

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-1		480-34016		10/05/2011 11:26	1	TAL BUF	DC
A:8260B	480-10504-A-1		480-34016		10/05/2011 11:26	1	TAL BUF	DC

Lab ID: 480-10504-2

Client ID: A2-PZ1

Sample Date/Time: 09/26/2011 15:40

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-2		480-34016		10/05/2011 11:48	1	TAL BUF	DC
A:8260B	480-10504-D-2		480-34016		10/05/2011 11:48	1	TAL BUF	DC
P:5030B	480-10504-F-2	DL	480-34409		10/07/2011 19:06	500	TAL BUF	JMB
A:8260B	480-10504-F-2	DL	480-34409		10/07/2011 19:06	500	TAL BUF	JMB
A:RSK-175	480-10504-G-2		480-33781		10/03/2011 19:49	100	TAL BUF	JM
A:353.2	480-10504-B-2		480-34144		09/30/2011 23:43	1	TAL BUF	RL
A:D516-90, 02	480-10504-A-2		480-35511		10/14/2011 12:41	2	TAL BUF	PN
A:SM 2320B	480-10504-C-2		480-34365		10/06/2011 18:23	1	TAL BUF	JS

Lab ID: 480-10504-2 MS

Client ID: A2-PZ1

Sample Date/Time: 09/26/2011 15:40

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-F-2 MS		480-34409		10/07/2011 20:12	500	TAL BUF	JMB
A:8260B	480-10504-F-2 MS		480-34409		10/07/2011 20:12	500	TAL BUF	JMB

Lab ID: 480-10504-2 MSD

Client ID: A2-PZ1

Sample Date/Time: 09/26/2011 15:40

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-F-2 MSD		480-34409		10/07/2011 20:35	500	TAL BUF	JMB
A:8260B	480-10504-F-2 MSD		480-34409		10/07/2011 20:35	500	TAL BUF	JMB

Lab ID: 480-10504-3

Client ID: A2-PZ7

Sample Date/Time: 09/26/2011 16:05

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-B-3		480-34202		10/06/2011 16:43	1	TAL BUF	DC
A:8260B	480-10504-B-3		480-34202		10/06/2011 16:43	1	TAL BUF	DC
P:5030B	480-10504-C-3	DL	480-34409		10/07/2011 19:28	8	TAL BUF	JMB
A:8260B	480-10504-C-3	DL	480-34409		10/07/2011 19:28	8	TAL BUF	JMB

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-4

Client ID: PZ-27

Sample Date/Time: 09/27/2011 10:15

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-B-4		480-34202		10/06/2011 17:05	1	TAL BUF	DC
A:8260B	480-10504-B-4		480-34202		10/06/2011 17:05	1	TAL BUF	DC

Lab ID: 480-10504-5

Client ID: MW-4

Sample Date/Time: 09/27/2011 10:55

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-5		480-34016		10/05/2011 12:54	1	TAL BUF	DC
A:8260B	480-10504-A-5		480-34016		10/05/2011 12:54	1	TAL BUF	DC

Lab ID: 480-10504-6

Client ID: MW-13S

Sample Date/Time: 09/27/2011 11:35

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-6		480-34016		10/05/2011 13:17	1	TAL BUF	DC
A:8260B	480-10504-A-6		480-34016		10/05/2011 13:17	1	TAL BUF	DC

Lab ID: 480-10504-7

Client ID: A1-PZ2

Sample Date/Time: 09/27/2011 12:05

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-7		480-34016		10/05/2011 13:39	1	TAL BUF	DC
A:8260B	480-10504-D-7		480-34016		10/05/2011 13:39	1	TAL BUF	DC
A:RSK-175	480-10504-H-7		480-33781		10/03/2011 20:03	100	TAL BUF	JM
A:353.2	480-10504-B-7		480-34144		09/30/2011 23:44	1	TAL BUF	RL
A:D516-90, 02	480-10504-B-7		480-35511		10/14/2011 12:49	1	TAL BUF	PN
A:SM 2320B	480-10504-C-7		480-34365		10/06/2011 18:51	1	TAL BUF	JS

Lab ID: 480-10504-7 DU

Client ID: A1-PZ2

Sample Date/Time: 09/27/2011 12:05

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	480-10504-C-7 DU		480-34365		10/06/2011 19:00	1	TAL BUF	JS

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-8

Client ID: PZ-18

Sample Date/Time: 09/27/2011 12:35

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-8		480-34016		10/05/2011 14:01	1	TAL BUF	DC
A:8260B	480-10504-A-8		480-34016		10/05/2011 14:01	1	TAL BUF	DC

Lab ID: 480-10504-9

Client ID: PZ-13R

Sample Date/Time: 09/27/2011 12:55

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-C-9		480-34016		10/05/2011 14:23	1	TAL BUF	DC
A:8260B	480-10504-C-9		480-34016		10/05/2011 14:23	1	TAL BUF	DC
A:RSK-175	480-10504-G-9		480-33781		10/03/2011 20:17	10	TAL BUF	JM
A:D516-90, 02	480-10504-B-9		480-35511		10/14/2011 13:40	5	TAL BUF	PN
A:SM 2320B	480-10504-B-9		480-34365		10/06/2011 18:32	1	TAL BUF	JS

Lab ID: 480-10504-9 MS

Client ID: PZ-13R

Sample Date/Time: 09/27/2011 12:55

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2320B	480-10504-B-9 MS		480-34365		10/06/2011 18:41	1	TAL BUF	JS

Lab ID: 480-10504-10

Client ID: MW-2

Sample Date/Time: 09/27/2011 18:05

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-10		480-34016		10/05/2011 14:46	1	TAL BUF	DC
A:8260B	480-10504-A-10		480-34016		10/05/2011 14:46	1	TAL BUF	DC

Lab ID: 480-10504-11

Client ID: MW-5

Sample Date/Time: 09/28/2011 14:25

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-11		480-34016		10/05/2011 15:08	1	TAL BUF	DC
A:8260B	480-10504-A-11		480-34016		10/05/2011 15:08	1	TAL BUF	DC

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-12

Client ID: MW-1

Sample Date/Time: 09/28/2011 14:55

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-12		480-34016		10/05/2011 15:30	1	TAL BUF	DC
A:8260B	480-10504-D-12		480-34016		10/05/2011 15:30	1	TAL BUF	DC
A:RSK-175	480-10504-G-12		480-33781		10/03/2011 20:30	1	TAL BUF	JM
A:353.2	480-10504-B-12		480-34144		09/30/2011 23:46	1	TAL BUF	RL
A:D516-90, 02	480-10504-B-12		480-35987		10/18/2011 10:33	5	TAL BUF	PN
A:SM 2320B	480-10504-A-12		480-34618		10/07/2011 16:41	1	TAL BUF	JS

Lab ID: 480-10504-13

Client ID: MW-3

Sample Date/Time: 09/28/2011 16:55

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-13		480-34016		10/05/2011 15:52	1	TAL BUF	DC
A:8260B	480-10504-D-13		480-34016		10/05/2011 15:52	1	TAL BUF	DC
A:RSK-175	480-10504-G-13		480-33781		10/03/2011 20:44	1	TAL BUF	JM
A:353.2	480-10504-B-13		480-34144		09/30/2011 23:47	1	TAL BUF	RL
A:D516-90, 02	480-10504-B-13		480-35987		10/18/2011 10:30	5	TAL BUF	PN
A:SM 2320B	480-10504-B-13		480-34618		10/07/2011 16:50	1	TAL BUF	JS

Lab ID: 480-10504-14

Client ID: PZ-7

Sample Date/Time: 09/28/2011 18:00

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-14		480-34016		10/05/2011 16:14	1	TAL BUF	DC
A:8260B	480-10504-A-14		480-34016		10/05/2011 16:14	1	TAL BUF	DC

Lab ID: 480-10504-15

Client ID: PZ-6

Sample Date/Time: 09/28/2011 18:25

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-15		480-34016		10/05/2011 16:36	1	TAL BUF	DC
A:8260B	480-10504-A-15		480-34016		10/05/2011 16:36	1	TAL BUF	DC

Lab ID: 480-10504-16

Client ID: PZ-5

Sample Date/Time: 09/28/2011 18:50

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-16		480-34016		10/05/2011 16:58	1	TAL BUF	DC
A:8260B	480-10504-A-16		480-34016		10/05/2011 16:58	1	TAL BUF	DC
P:5030B	480-10504-B-16	DL	480-34202		10/06/2011 17:27	2	TAL BUF	DC
A:8260B	480-10504-B-16	DL	480-34202		10/06/2011 17:27	2	TAL BUF	DC

TestAmerica Buffalo

A = Analytical Method P = Prep Method

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-17

Client ID: PZ-8

Sample Date/Time: 09/28/2011 19:15

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-17		480-34016		10/05/2011 17:21	1	TAL BUF	DC
A:8260B	480-10504-A-17		480-34016		10/05/2011 17:21	1	TAL BUF	DC
P:5030B	480-10504-B-17	DL	480-34202		10/06/2011 17:49	5	TAL BUF	DC
A:8260B	480-10504-B-17	DL	480-34202		10/06/2011 17:49	5	TAL BUF	DC

Lab ID: 480-10504-18

Client ID: MW-14BR

Sample Date/Time: 09/29/2011 10:15

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-18		480-34016		10/05/2011 17:42	1	TAL BUF	DC
A:8260B	480-10504-A-18		480-34016		10/05/2011 17:42	1	TAL BUF	DC

Lab ID: 480-10504-19

Client ID: PZ-11R

Sample Date/Time: 09/29/2011 11:15

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-19		480-34016		10/05/2011 18:05	1	TAL BUF	DC
A:8260B	480-10504-A-19		480-34016		10/05/2011 18:05	1	TAL BUF	DC

Lab ID: 480-10504-20

Client ID: MW-10

Sample Date/Time: 09/29/2011 12:45

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-20		480-34016		10/05/2011 18:27	1	TAL BUF	DC
A:8260B	480-10504-D-20		480-34016		10/05/2011 18:27	1	TAL BUF	DC
A:RSK-175	480-10504-G-20		480-33781		10/03/2011 20:58	10	TAL BUF	JM
A:353.2	480-10504-B-20		480-34144		09/30/2011 23:48	1	TAL BUF	RL
A:D516-90, 02	480-10504-A-20		480-35987		10/18/2011 10:30	5	TAL BUF	PN
A:SM 2320B	480-10504-B-20		480-34618		10/07/2011 17:24	1	TAL BUF	JS

Lab ID: 480-10504-21

Client ID: TB-092911

Sample Date/Time: 09/28/2011 00:00

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-A-21		480-34016		10/05/2011 18:49	1	TAL BUF	DC
A:8260B	480-10504-A-21		480-34016		10/05/2011 18:49	1	TAL BUF	DC

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: 480-10504-22

Client ID: DUP-092811

Sample Date/Time: 09/28/2011 00:00

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	480-10504-D-22		480-34016		10/05/2011 19:10	1	TAL BUF	DC
A:8260B	480-10504-D-22		480-34016		10/05/2011 19:10	1	TAL BUF	DC
A:RSK-175	480-10504-G-22		480-33781		10/03/2011 21:12	10	TAL BUF	JM
A:353.2	480-10504-B-22		480-34144		09/30/2011 23:49	1	TAL BUF	RL
A:D516-90, 02	480-10504-A-22		480-35987		10/18/2011 10:30	5	TAL BUF	PN
A:SM 2320B	480-10504-B-22		480-34618		10/07/2011 16:32	1	TAL BUF	JS

Lab ID: 480-10504-23

Client ID: PZ-13R

Sample Date/Time: 09/28/2011 16:20

Received Date/Time: 09/30/2011 10:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:353.2	480-10504-A-23		480-34144		09/30/2011 23:50	1	TAL BUF	RL

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 480-34016/5		480-34016		10/05/2011 10:52	1	TAL BUF	DC
A:8260B	MB 480-34016/5		480-34016		10/05/2011 10:52	1	TAL BUF	DC
P:5030B	MB 480-34202/5		480-34202		10/06/2011 12:15	1	TAL BUF	DC
A:8260B	MB 480-34202/5		480-34202		10/06/2011 12:15	1	TAL BUF	DC
P:5030B	MB 480-34409/5		480-34409		10/07/2011 12:16	1	TAL BUF	JMB
A:8260B	MB 480-34409/5		480-34409		10/07/2011 12:16	1	TAL BUF	JMB
A:RSK-175	MB 480-33781/5		480-33781		10/03/2011 19:08	1	TAL BUF	JM
A:D516-90, 02	MB 480-35511/44		480-35511		10/14/2011 12:05	1	TAL BUF	PN
A:D516-90, 02	MB 480-35511/80		480-35511		10/14/2011 13:38	1	TAL BUF	PN
A:D516-90, 02	MB 480-35987/7		480-35987		10/18/2011 10:14	1	TAL BUF	PN
A:SM 2320B	MB 480-34365/29		480-34365		10/06/2011 17:37	1	TAL BUF	JS
A:SM 2320B	MB 480-34618/5		480-34618		10/07/2011 14:53	1	TAL BUF	JS

Quality Control Results

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 480-34016/4		480-34016		10/05/2011 10:30	1	TAL BUF	DC
A:8260B	LCS 480-34016/4		480-34016		10/05/2011 10:30	1	TAL BUF	DC
P:5030B	LCS 480-34202/4		480-34202		10/06/2011 11:53	1	TAL BUF	DC
A:8260B	LCS 480-34202/4		480-34202		10/06/2011 11:53	1	TAL BUF	DC
P:5030B	LCS 480-34409/4		480-34409		10/07/2011 11:54	1	TAL BUF	JMB
A:8260B	LCS 480-34409/4		480-34409		10/07/2011 11:54	1	TAL BUF	JMB
A:RSK-175	LCS 480-33781/6		480-33781		10/03/2011 19:22	1	TAL BUF	JM
A:D516-90, 02	LCS 480-35511/43		480-35511		10/14/2011 12:05	1	TAL BUF	PN
A:D516-90, 02	LCS 480-35511/79		480-35511		10/14/2011 13:38	1	TAL BUF	PN
A:D516-90, 02	LCS 480-35987/6		480-35987		10/18/2011 10:14	1	TAL BUF	PN
A:SM 2320B	LCS 480-34365/30		480-34365		10/06/2011 17:46	1	TAL BUF	JS
A:SM 2320B	LCS 480-34618/6		480-34618		10/07/2011 15:01	1	TAL BUF	JS

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:RSK-175	LCSD 480-33781/15		480-33781		10/03/2011 21:49	1	TAL BUF	JM

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Lockheed Martin Corporation

TestAmerica Job ID: 480-10504-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	Georgia EPD	4	N/A
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	Kentucky UST	4	30
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	USDA		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): ZB-624 (60) ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
PZ-26	480-10504-1	117	113	107
A2-PZ1	480-10504-2	112	120	117
A2-PZ1 DL	480-10504-2 DL	122	118	112
A2-PZ7	480-10504-3	120	112	109
A2-PZ7 DL	480-10504-3 DL	124	116	114
PZ-27	480-10504-4	121	115	113
MW-4	480-10504-5	117	119	112
MW-13S	480-10504-6	116	112	109
A1-PZ2	480-10504-7	119	116	112
PZ-18	480-10504-8	116	116	111
PZ-13R	480-10504-9	119	118	113
MW-2	480-10504-10	116	116	112
MW-5	480-10504-11	120	119	115
MW-1	480-10504-12	118	116	112
MW-3	480-10504-13	118	116	111
PZ-7	480-10504-14	117	116	111
PZ-6	480-10504-15	119	117	112
PZ-5	480-10504-16	127	121	119
PZ-5 DL	480-10504-16 DL	120	115	113
PZ-8	480-10504-17	120	114	113
PZ-8 DL	480-10504-17 DL	119	117	112
MW-14BR	480-10504-18	122	120	114
PZ-11R	480-10504-19	120	118	113
MW-10	480-10504-20	120	116	113
TB-092911	480-10504-21	120	118	112
DUP-092811	480-10504-22	120	118	112
	MB 480-34016/5	114	115	109
	MB 480-34202/5	118	116	114
	MB 480-34409/5	124	120	117
	LCS 480-34016/4	113	114	109
	LCS 480-34202/4	116	116	114
	LCS 480-34409/4	120	118	117
A2-PZ1 MS	480-10504-2 MS	121	117	117
A2-PZ1 MSD	480-10504-2 MSD	120	116	114

QC LIMITS

DCA = 1,2-Dichloroethane-d4 (Surr)	66-137
TOL = Toluene-d8 (Surr)	71-126
BFB = 4-Bromofluorobenzene (Surr)	73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6630.D
 Lab ID: LCS 480-34016/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	24.8	99	71-129	
1,1-Dichloroethene	25.0	22.6	90	65-138	
1,2-Dichlorobenzene	25.0	24.4	98	77-120	
1,2-Dichloroethane	25.0	24.7	99	75-127	
Benzene	25.0	24.2	97	71-124	
Chlorobenzene	25.0	24.8	99	72-120	
cis-1,2-Dichloroethene	25.0	23.9	96	74-124	
Ethylbenzene	25.0	25.0	100	77-123	
Methyl tert-butyl ether	25.0	23.6	94	64-127	
Tetrachloroethene	25.0	24.1	96	74-122	
Toluene	25.0	24.3	97	70-122	
trans-1,2-Dichloroethene	25.0	24.6	98	73-127	
Trichloroethene	25.0	24.0	96	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6657.D
 Lab ID: LCS 480-34202/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	25.2	101	71-129	
1,1-Dichloroethene	25.0	23.3	93	65-138	
1,2-Dichlorobenzene	25.0	25.6	102	77-120	
1,2-Dichloroethane	25.0	26.8	107	75-127	
Benzene	25.0	24.6	98	71-124	
Chlorobenzene	25.0	26.1	104	72-120	
cis-1,2-Dichloroethene	25.0	24.5	98	74-124	
Ethylbenzene	25.0	26.2	105	77-123	
Methyl tert-butyl ether	25.0	23.6	94	64-127	
Tetrachloroethene	25.0	26.4	106	74-122	
Toluene	25.0	25.5	102	70-122	
trans-1,2-Dichloroethene	25.0	25.4	102	73-127	
Trichloroethene	25.0	25.3	101	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6685.D
 Lab ID: LCS 480-34409/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethane	25.0	25.1	100	71-129	
1,1-Dichloroethene	25.0	22.6	90	65-138	
1,2-Dichlorobenzene	25.0	25.3	101	77-120	
1,2-Dichloroethane	25.0	27.3	109	75-127	
Benzene	25.0	24.2	97	71-124	
Chlorobenzene	25.0	25.7	103	72-120	
cis-1,2-Dichloroethene	25.0	24.5	98	74-124	
Ethylbenzene	25.0	26.1	104	77-123	
Methyl tert-butyl ether	25.0	23.6	94	64-127	
Tetrachloroethene	25.0	26.1	104	74-122	
Toluene	25.0	24.8	99	70-122	
trans-1,2-Dichloroethene	25.0	25.8	103	73-127	
Trichloroethene	25.0	25.0	100	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6707.D
 Lab ID: 480-10504-2 MS Client ID: A2-PZ1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1-Dichloroethane	12500	1900	14100	97	71-129	
1,1-Dichloroethene	12500	ND	10300	82	65-138	
1,2-Dichlorobenzene	12500	ND	12800	102	77-120	
1,2-Dichloroethane	12500	ND	13700	109	75-127	
Benzene	12500	ND	12100	97	71-124	
Chlorobenzene	12500	ND	13200	106	72-120	
cis-1,2-Dichloroethene	12500	27000	36400	76	74-124	
Ethylbenzene	12500	ND	13200	106	77-123	
Methyl tert-butyl ether	12500	ND	11200	89	64-127	
Tetrachloroethene	12500	ND	13300	106	74-122	
Toluene	12500	ND	12800	102	70-122	
trans-1,2-Dichloroethene	12500	ND	12500	100	73-127	
Trichloroethene	12500	2100	14400	98	74-123	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S6708.D
 Lab ID: 480-10504-2 MSD Client ID: A2-PZ1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1-Dichloroethane	12500	14500	100	3	20	71-129	
1,1-Dichloroethene	12500	11300	90	9	16	65-138	
1,2-Dichlorobenzene	12500	13000	104	1	20	77-120	
1,2-Dichloroethane	12500	14000	112	2	20	75-127	
Benzene	12500	12300	98	2	13	71-124	
Chlorobenzene	12500	13400	107	2	25	72-120	
cis-1,2-Dichloroethene	12500	37000	81	1	15	74-124	
Ethylbenzene	12500	13400	107	1	15	77-123	
Methyl tert-butyl ether	12500	11300	90	1	37	64-127	
Tetrachloroethene	12500	13600	108	2	20	74-122	
Toluene	12500	13000	104	2	15	70-122	
trans-1,2-Dichloroethene	12500	12900	103	3	20	73-127	
Trichloroethene	12500	14700	101	2	16	74-123	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Lab File ID: S6631.D Lab Sample ID: MB 480-34016/5
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5973S Date Analyzed: 10/05/2011 10:52
 GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-34016/4	S6630.D	10/05/2011 10:30
PZ-26	480-10504-1	S6632.D	10/05/2011 11:26
A2-PZ1	480-10504-2	S6633.D	10/05/2011 11:48
MW-4	480-10504-5	S6636.D	10/05/2011 12:54
MW-13S	480-10504-6	S6637.D	10/05/2011 13:17
A1-PZ2	480-10504-7	S6638.D	10/05/2011 13:39
PZ-18	480-10504-8	S6639.D	10/05/2011 14:01
PZ-13R	480-10504-9	S6640.D	10/05/2011 14:23
MW-2	480-10504-10	S6641.D	10/05/2011 14:46
MW-5	480-10504-11	S6642.D	10/05/2011 15:08
MW-1	480-10504-12	S6643.D	10/05/2011 15:30
MW-3	480-10504-13	S6644.D	10/05/2011 15:52
PZ-7	480-10504-14	S6645.D	10/05/2011 16:14
PZ-6	480-10504-15	S6646.D	10/05/2011 16:36
PZ-5	480-10504-16	S6647.D	10/05/2011 16:58
PZ-8	480-10504-17	S6648.D	10/05/2011 17:21
MW-14BR	480-10504-18	S6649.D	10/05/2011 17:42
PZ-11R	480-10504-19	S6650.D	10/05/2011 18:05
MW-10	480-10504-20	S6651.D	10/05/2011 18:27
TB-092911	480-10504-21	S6652.D	10/05/2011 18:49
DUP-092811	480-10504-22	S6653.D	10/05/2011 19:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6658.D Lab Sample ID: MB 480-34202/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 10/06/2011 12:15
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-34202/4	S6657.D	10/06/2011 11:53
A2-PZ7	480-10504-3	S6670.D	10/06/2011 16:43
PZ-27	480-10504-4	S6671.D	10/06/2011 17:05
PZ-5 DL	480-10504-16 DL	S6672.D	10/06/2011 17:27
PZ-8 DL	480-10504-17 DL	S6673.D	10/06/2011 17:49

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6686.D Lab Sample ID: MB 480-34409/5
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5973S Date Analyzed: 10/07/2011 12:16
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-34409/4	S6685.D	10/07/2011 11:54
A2-PZ1 DL	480-10504-2 DL	S6704.D	10/07/2011 19:06
A2-PZ7 DL	480-10504-3 DL	S6705.D	10/07/2011 19:28
A2-PZ1 MS	480-10504-2 MS	S6707.D	10/07/2011 20:12
A2-PZ1 MSD	480-10504-2 MSD	S6708.D	10/07/2011 20:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6119.D BFB Injection Date: 09/20/2011
Instrument ID: HP5973S BFB Injection Time: 13:54
Analysis Batch No.: 32019

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.0
75	30.0 - 60.0 % of mass 95	44.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.7
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	77.8
175	5.0 - 9.0 % of mass 174	5.6 (7.1) 1
176	95.0 - 101.0 % of mass 174	74.1 (95.3) 1
177	5.0 - 9.0 % of mass 176	4.9 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD 480-32019/3	S6121.D	09/20/2011	14:39
	STD 480-32019/4	S6122.D	09/20/2011	15:00
	STD 480-32019/5	S6123.D	09/20/2011	15:23
	STD 480-32019/6	S6124.D	09/20/2011	15:45
	STD 480-32019/7	S6125.D	09/20/2011	16:07
	STD 480-32019/8	S6126.D	09/20/2011	16:29

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6627.D BFB Injection Date: 10/05/2011
Instrument ID: HP5973S BFB Injection Time: 09:06
Analysis Batch No.: 34016

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.2
75	30.0 - 60.0 % of mass 95	47.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	82.7
175	5.0 - 9.0 % of mass 174	6.3 (7.6) 1
176	95.0 - 101.0 % of mass 174	79.0 (95.5) 1
177	5.0 - 9.0 % of mass 176	5.3 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-34016/2	S6628.D	10/05/2011	09:29
	LCS 480-34016/4	S6630.D	10/05/2011	10:30
	MB 480-34016/5	S6631.D	10/05/2011	10:52
PZ-26	480-10504-1	S6632.D	10/05/2011	11:26
A2-PZ1	480-10504-2	S6633.D	10/05/2011	11:48
MW-4	480-10504-5	S6636.D	10/05/2011	12:54
MW-13S	480-10504-6	S6637.D	10/05/2011	13:17
A1-PZ2	480-10504-7	S6638.D	10/05/2011	13:39
PZ-18	480-10504-8	S6639.D	10/05/2011	14:01
PZ-13R	480-10504-9	S6640.D	10/05/2011	14:23
MW-2	480-10504-10	S6641.D	10/05/2011	14:46
MW-5	480-10504-11	S6642.D	10/05/2011	15:08
MW-1	480-10504-12	S6643.D	10/05/2011	15:30
MW-3	480-10504-13	S6644.D	10/05/2011	15:52
PZ-7	480-10504-14	S6645.D	10/05/2011	16:14
PZ-6	480-10504-15	S6646.D	10/05/2011	16:36
PZ-5	480-10504-16	S6647.D	10/05/2011	16:58
PZ-8	480-10504-17	S6648.D	10/05/2011	17:21
MW-14BR	480-10504-18	S6649.D	10/05/2011	17:42
PZ-11R	480-10504-19	S6650.D	10/05/2011	18:05
MW-10	480-10504-20	S6651.D	10/05/2011	18:27
TB-092911	480-10504-21	S6652.D	10/05/2011	18:49
DUP-092811	480-10504-22	S6653.D	10/05/2011	19:10

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6654.D BFB Injection Date: 10/06/2011
Instrument ID: HP5973S BFB Injection Time: 09:30
Analysis Batch No.: 34202

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.1
75	30.0 - 60.0 % of mass 95	49.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	77.6
175	5.0 - 9.0 % of mass 174	5.9 (7.6) 1
176	95.0 - 101.0 % of mass 174	77.1 (99.3) 1
177	5.0 - 9.0 % of mass 176	4.9 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-34202/2	S6655.D	10/06/2011	09:56
	LCS 480-34202/4	S6657.D	10/06/2011	11:53
	MB 480-34202/5	S6658.D	10/06/2011	12:15
A2-PZ7	480-10504-3	S6670.D	10/06/2011	16:43
PZ-27	480-10504-4	S6671.D	10/06/2011	17:05
PZ-5 DL	480-10504-16 DL	S6672.D	10/06/2011	17:27
PZ-8 DL	480-10504-17 DL	S6673.D	10/06/2011	17:49

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab File ID: S6682.D BFB Injection Date: 10/07/2011
Instrument ID: HP5973S BFB Injection Time: 09:47
Analysis Batch No.: 34409

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.0
75	30.0 - 60.0 % of mass 95	49.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.6
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	82.3
175	5.0 - 9.0 % of mass 174	6.6 (8.0) 1
176	95.0 - 101.0 % of mass 174	79.6 (96.8) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-34409/2	S6683.D	10/07/2011	10:57
	CCV 480-34409/3	S6684.D	10/07/2011	11:31
	LCS 480-34409/4	S6685.D	10/07/2011	11:54
	MB 480-34409/5	S6686.D	10/07/2011	12:16
A2-PZ1 DL	480-10504-2 DL	S6704.D	10/07/2011	19:06
A2-PZ7 DL	480-10504-3 DL	S6705.D	10/07/2011	19:28
A2-PZ1 MS	480-10504-2 MS	S6707.D	10/07/2011	20:12
A2-PZ1 MSD	480-10504-2 MSD	S6708.D	10/07/2011	20:35

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Sample No.: STD 480-32019/6 Date Analyzed: 09/20/2011 15:45
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S6124.D Heated Purge: (Y/N) N
 Calibration ID: 3899

	DFB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	577531	4.93	271145	7.13	268804	8.99	
UPPER LIMIT	1155062	5.43	542290	7.63	537608	9.49	
LOWER LIMIT	288766	4.43	135573	6.63	134402	8.49	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-34016/2		539441	4.93	250289	7.13	249705	8.99
CCVIS 480-34202/2		465934	4.93	217643	7.13	225713	8.99
CCVIS 480-34409/2		442722	4.93	207074	7.13	217351	8.99

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Sample No.: CCVIS 480-34016/2 Date Analyzed: 10/05/2011 09:29
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S6628.D Heated Purge: (Y/N) N
 Calibration ID: 3900

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		539441	4.93	250289	7.13	249705	8.99
UPPER LIMIT		1078882	5.43	500578	7.63	499410	9.49
LOWER LIMIT		269721	4.43	125145	6.63	124853	8.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-34016/4		530933	4.93	244632	7.13	249605	8.99
MB 480-34016/5		537825	4.93	243392	7.13	245626	8.99
480-10504-1	PZ-26	529124	4.93	247226	7.13	245830	8.99
480-10504-2	A2-PZ1	493844	4.94	225420	7.13	239291	8.99
480-10504-5	MW-4	513443	4.93	234735	7.13	241172	8.99
480-10504-6	MW-13S	500158	4.93	232466	7.13	232536	8.99
480-10504-7	A1-PZ2	494134	4.93	227380	7.13	235565	8.99
480-10504-8	PZ-18	491452	4.93	223272	7.13	232125	8.99
480-10504-9	PZ-13R	490465	4.93	221775	7.13	225563	8.99
480-10504-10	MW-2	476054	4.93	219280	7.13	224677	8.99
480-10504-11	MW-5	474723	4.93	216296	7.13	224944	8.99
480-10504-12	MW-1	477165	4.93	214615	7.13	222866	8.99
480-10504-13	MW-3	471168	4.93	216598	7.13	223127	8.99
480-10504-14	PZ-7	468694	4.93	212822	7.13	221170	8.99
480-10504-15	PZ-6	464941	4.93	210474	7.13	216628	8.99
480-10504-16	PZ-5	441005	4.93	203867	7.13	214959	8.99
480-10504-17	PZ-8	449396	4.93	206354	7.13	211386	8.99
480-10504-18	MW-14BR	449339	4.93	204861	7.13	212749	8.99
480-10504-19	PZ-11R	449364	4.93	205287	7.13	212822	8.99
480-10504-20	MW-10	440735	4.93	203152	7.13	211184	8.99
480-10504-21	TB-092911	450640	4.93	203375	7.13	208104	8.99
480-10504-22	DUP-092811	443849	4.93	202294	7.13	210468	8.99

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Sample No.: CCVIS 480-34202/2 Date Analyzed: 10/06/2011 09:56
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S6655.D Heated Purge: (Y/N) N
 Calibration ID: 3900

		DFB		CBZ		DCB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		465934	4.93	217643	7.13	225713	8.99
UPPER LIMIT		931868	5.43	435286	7.63	451426	9.49
LOWER LIMIT		232967	4.43	108822	6.63	112857	8.49
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-34202/4		458233	4.93	208777	7.13	221416	8.99
MB 480-34202/5		446746	4.93	207221	7.13	211946	8.99
480-10504-3	A2-PZ7	431267	4.93	198043	7.13	202741	8.99
480-10504-4	PZ-27	418863	4.93	192476	7.13	200279	8.99
480-10504-16 DL	PZ-5 DL	419504	4.93	192109	7.13	201786	8.99
480-10504-17 DL	PZ-8 DL	419215	4.93	191002	7.13	199062	8.99

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Sample No.: CCVIS 480-34409/2 Date Analyzed: 10/07/2011 10:57
 Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): S6683.D Heated Purge: (Y/N) N
 Calibration ID: 3900

	DFB		CBZ		DCB		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	442722	4.93	207074	7.13	217351	8.99	
UPPER LIMIT	885444	5.43	414148	7.63	434702	9.49	
LOWER LIMIT	221361	4.43	103537	6.63	108676	8.49	
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 480-34409/3		444480	4.93	204238	7.13	215664	8.99
LCS 480-34409/4		436056	4.93	200006	7.13	211153	8.99
MB 480-34409/5		425416	4.93	195803	7.13	203638	8.99
480-10504-2 DL	A2-PZ1 DL	404356	4.93	184509	7.13	192570	8.99
480-10504-3 DL	A2-PZ7 DL	400375	4.93	185429	7.13	191455	8.99
480-10504-2 MS	A2-PZ1 MS	416478	4.93	186862	7.13	200645	8.99
480-10504-2 MSD	A2-PZ1 MSD	420835	4.93	190809	7.13	201371	8.99

DFB = 1,4-Difluorobenzene
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-26 Lab Sample ID: 480-10504-1

Matrix: Water Lab File ID: S6632.D

Analysis Method: 8260B Date Collected: 09/26/2011 11:35

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 11:26

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-26 Lab Sample ID: 480-10504-1
 Matrix: Water Lab File ID: S6632.D
 Analysis Method: 8260B Date Collected: 09/26/2011 11:35
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 11:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		66-137
2037-26-5	Toluene-d8 (Surr)	113		71-126
460-00-4	4-Bromofluorobenzene (Surr)	107		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6632.D
 Lims ID: 480-10504-A-1 Client ID: PZ-26
 Inject. Date: 05-Oct-2011 11:26:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-1
 Misc. Info.: 480-0006450-006 =480-0006450-006
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 6
 Lims Batch ID: 34016 Lims Sample ID: 6
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 05-Oct-2011 12:45:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	529124	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	247226	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	245830	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	86822	29.2	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	552256	28.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	87	165536	26.8	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 05-Oct-2011 12:45:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6632.D

Injection Date: 05-Oct-2011 11:26:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-26

Instrument ID: HP5973S

Lims Batch ID: 34016

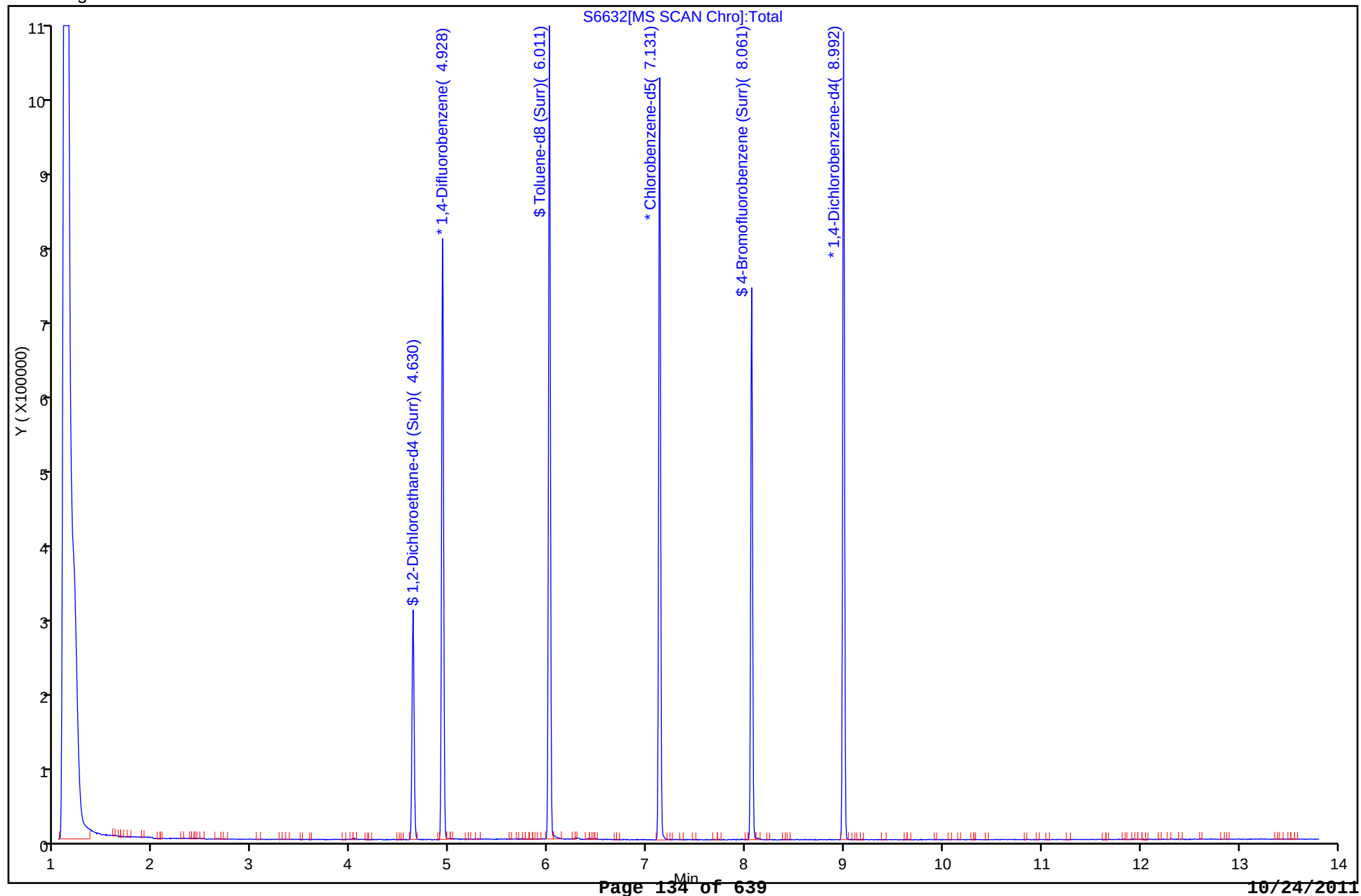
Lims Sample ID: 6

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ1 Lab Sample ID: 480-10504-2

Matrix: Water Lab File ID: S6633.D

Analysis Method: 8260B Date Collected: 09/26/2011 15:40

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 11:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	3.0		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1600	E	1.0	0.31
75-34-3	1,1-Dichloroethane	2000	E	1.0	0.38
75-35-4	1,1-Dichloroethene	45		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	5.1		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	6.2		5.0	2.1
67-64-1	Acetone	9.5	J	10	3.0
71-43-2	Benzene	0.52	J	1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	1.2		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	5600	E	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	960	E	1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ1 Lab Sample ID: 480-10504-2
 Matrix: Water Lab File ID: S6633.D
 Analysis Method: 8260B Date Collected: 09/26/2011 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 11:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	4.6		1.0	0.36
108-88-3	Toluene	5.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	33		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1700	E	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	1300	E	1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		66-137
2037-26-5	Toluene-d8 (Surr)	120		71-126
460-00-4	4-Bromofluorobenzene (Surr)	117		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D
 Lims ID: 480-10504-D-2 Client ID: A2-PZ1
 Inject. Date: 05-Oct-2011 11:48:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-2
 Misc. Info.: 480-0006450-007 =480-0006450-007
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 7
 Lims Batch ID: 34016 Lims Sample ID: 7
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:46:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.935	4.928	0.006	93	493844	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	81	225420	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	239291	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.636	4.630	0.006	95	77874	27.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	90	533427	30.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	88	164881	29.3	
10 Dichlorodifluoromethane	85	1.242	1.260	-0.018	16	4288379	959.6	E
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.522	1.504	0.018	84	7185137	1346.2	E
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.556	2.550	0.006	26	6679804	1555.2	E
22 1,1-Dichloroethene	96	2.562	2.550	0.012	4	223194	44.7	
23 Acetone	43	2.653	2.647	0.006	67	18063	9.48	
26 Carbon disulfide	76	2.744	2.720	0.024	35	16544	1.24	
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96	3.176	3.170	0.006	95	177943	33.1	
39 1,1-Dichloroethane	63	3.541	3.535	0.006	85	18109666	1953.6	E
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	61	32890290	5553.8	E
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78	4.636	4.631	0.005	25	11739	0.5178	
58 1,2-Dichloroethane	62	4.691	4.685	0.006	76	34208	5.13	
62 Trichloroethene	95	5.111	5.105	0.006	90	9135658	1682.4	E
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	92	36845	6.18	
74 Toluene	92	6.066	6.060	0.006	78	73299	5.13	
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	79	12153	2.97	
81 Tetrachloroethene	166	6.455	6.456	-0.001	81	25657	4.55	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

Lims Sample ID: 7

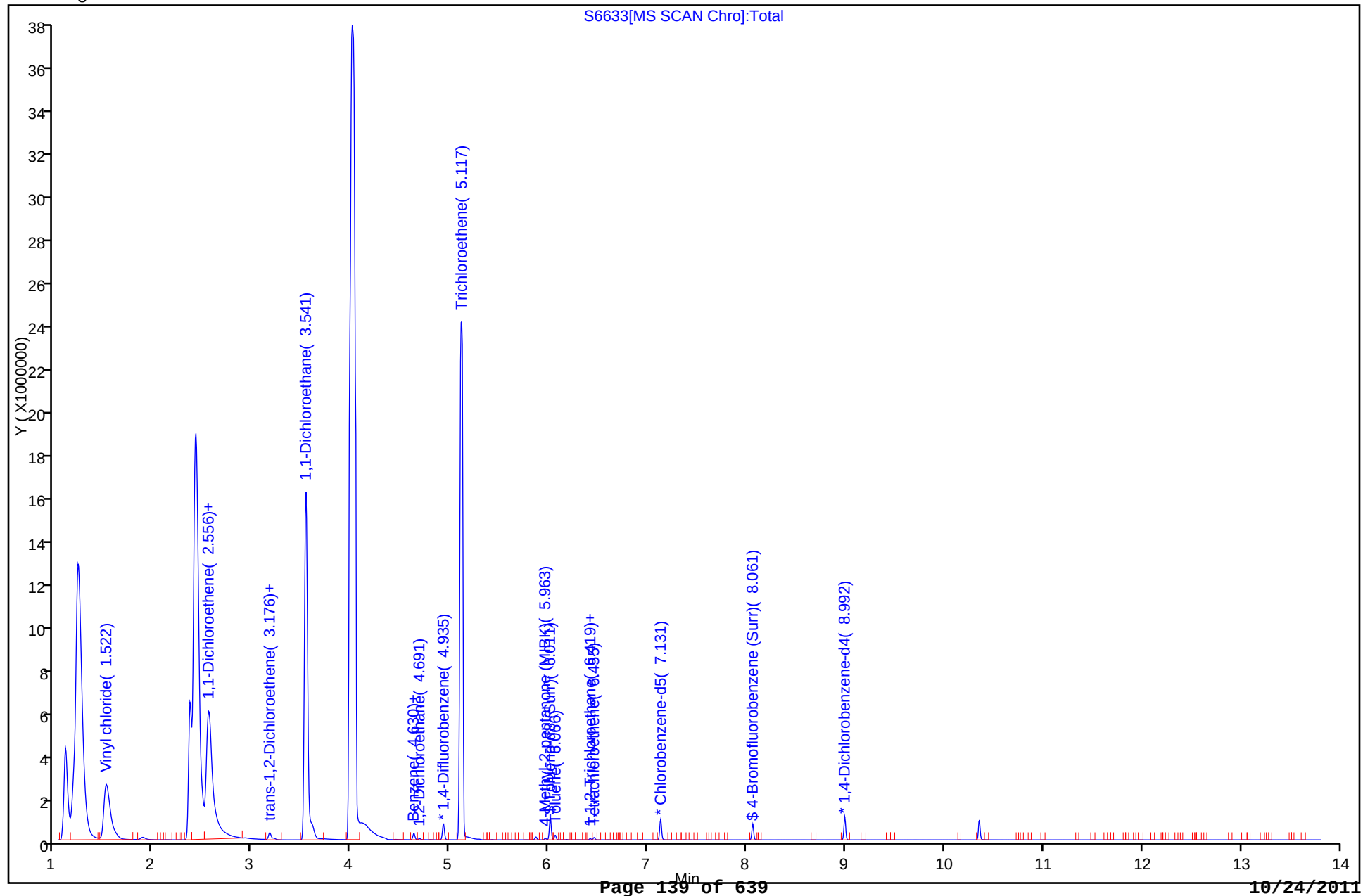
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:

S6633[MS SCAN Chro]:Total



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

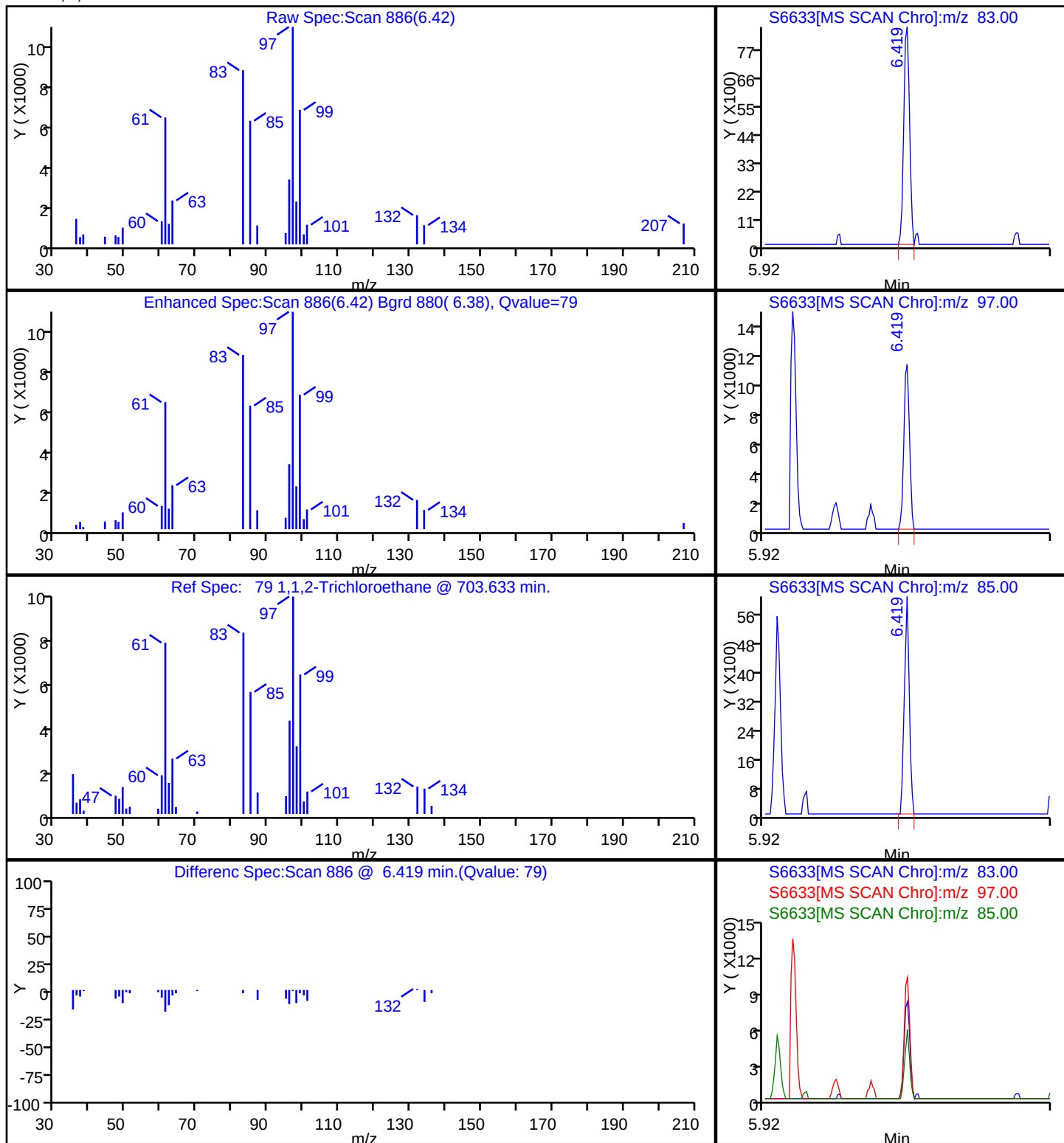
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

79 1,1,2-Trichloroethane



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

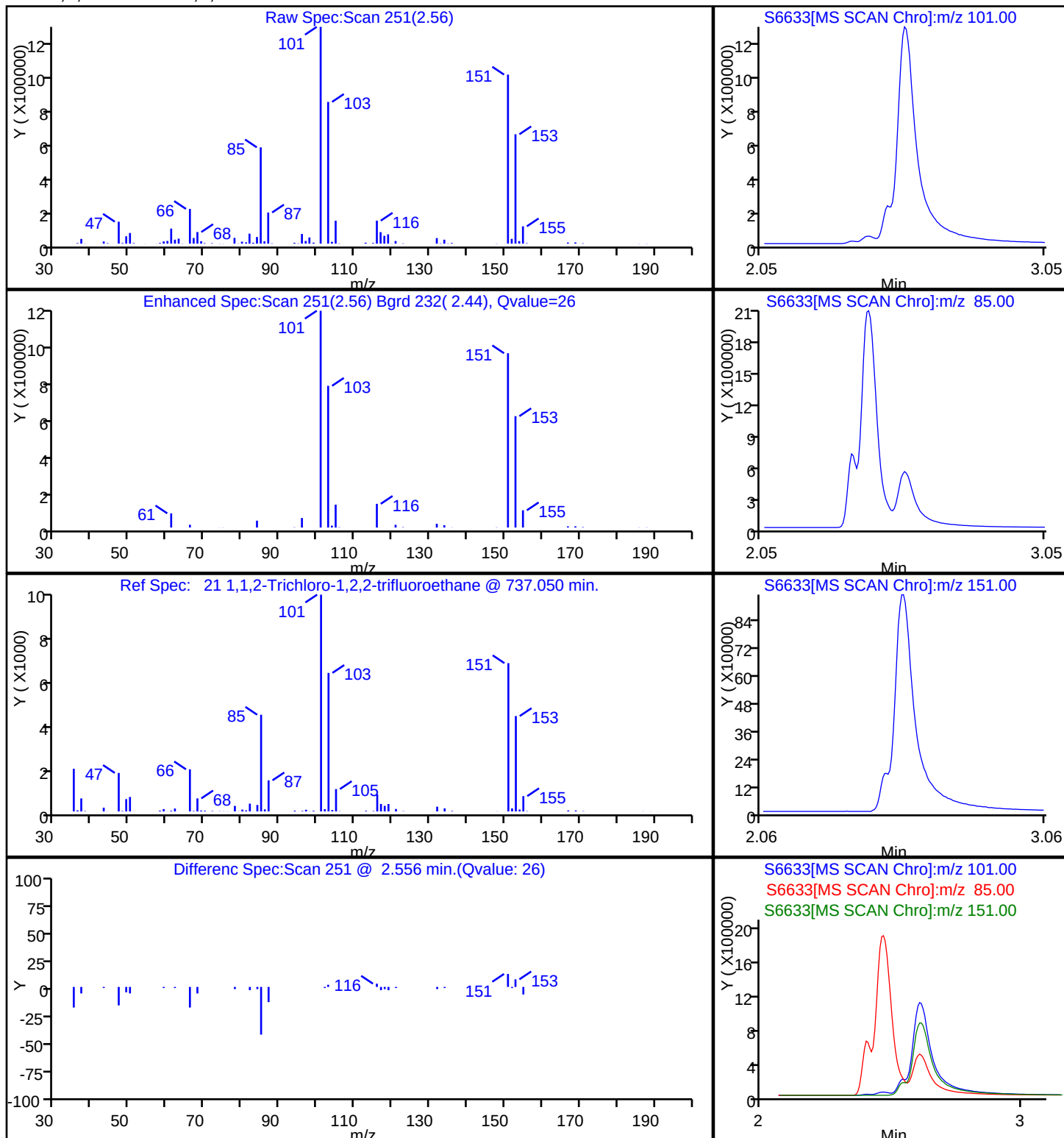
Lims Sample ID: 7

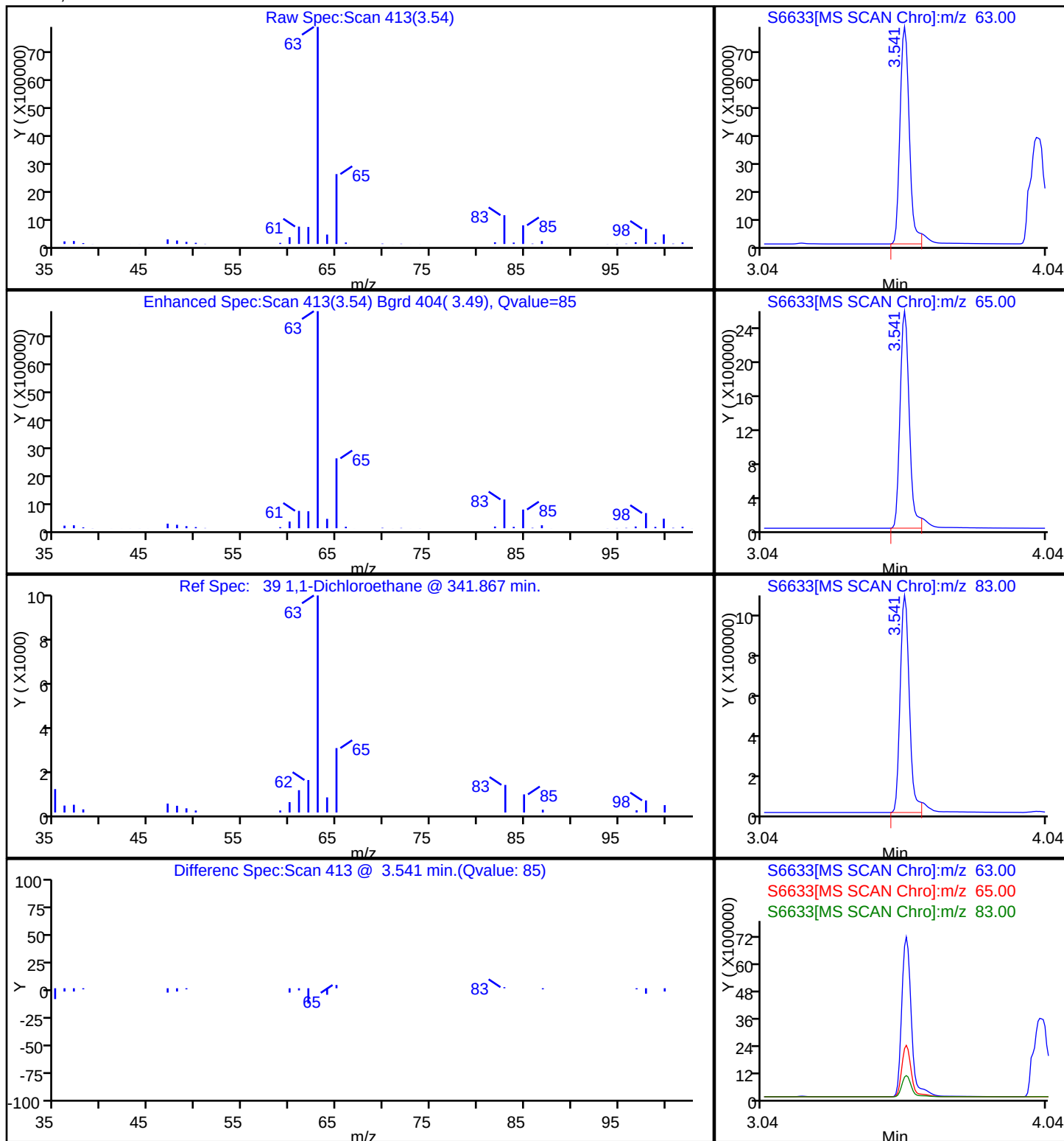
Operator ID: DHC

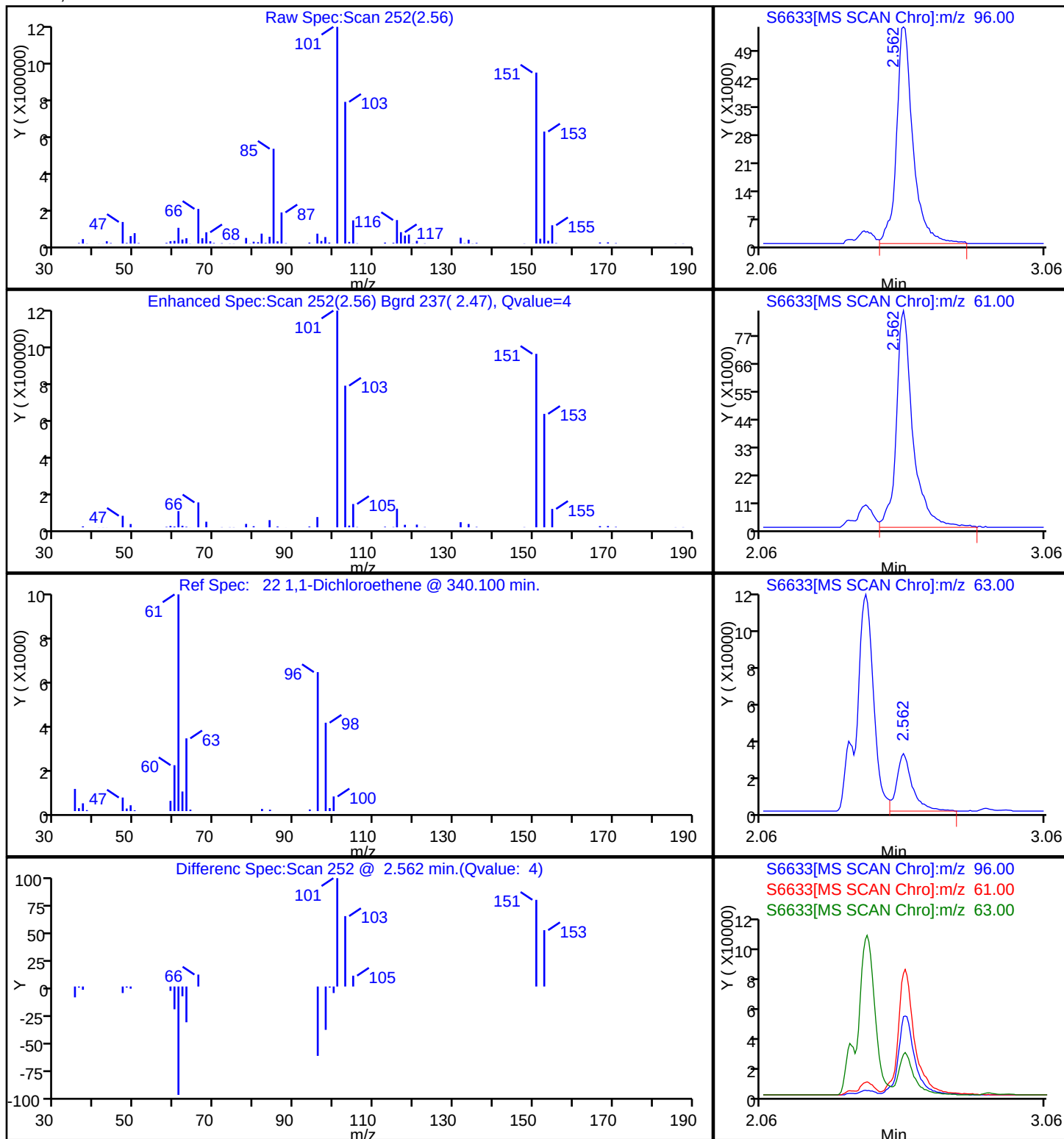
Column Type: ZB-624

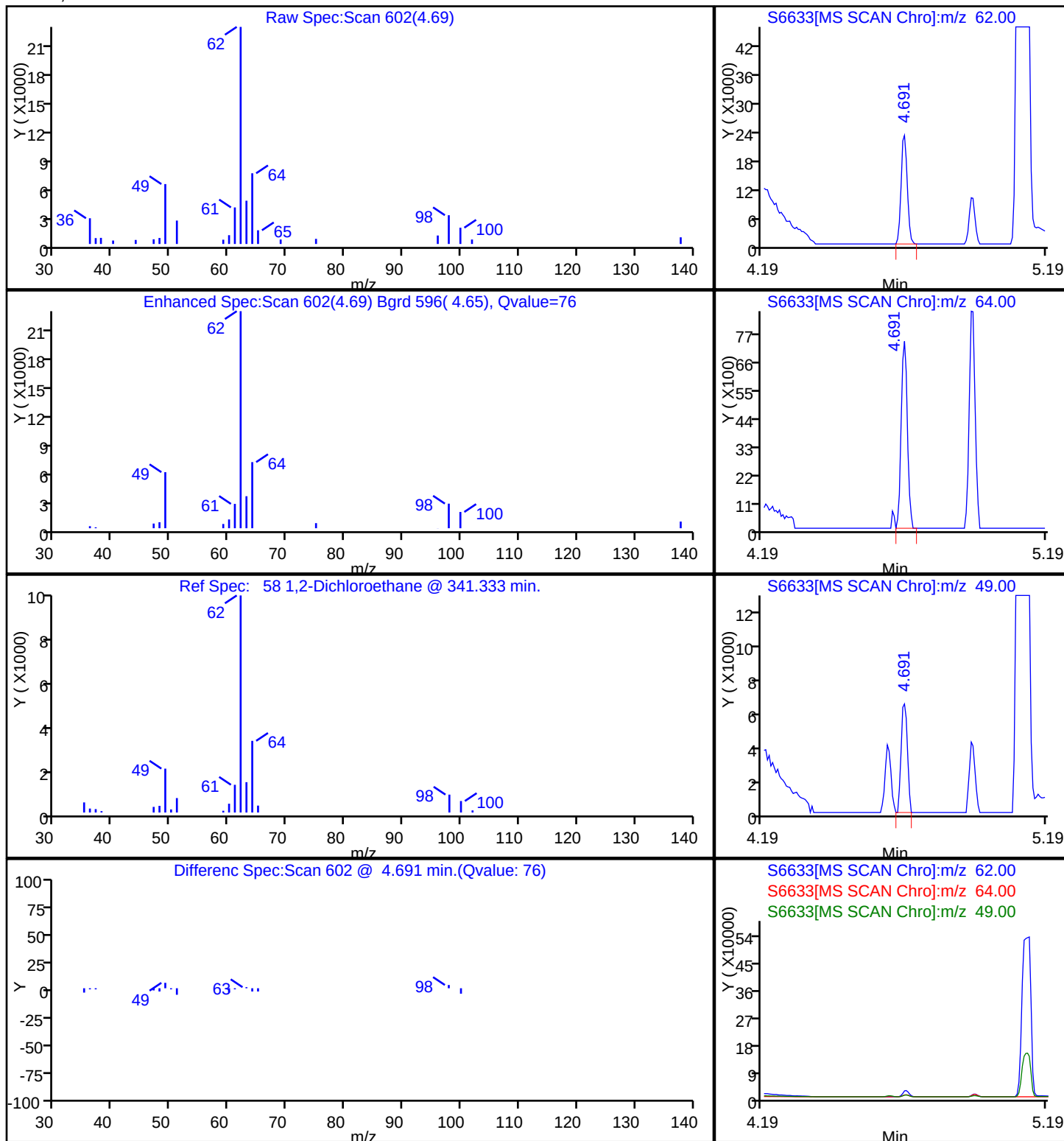
Column Dia: 0.25 mm

21 1,1,2-Trichloro-1,2,2-trifluoroethane









Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

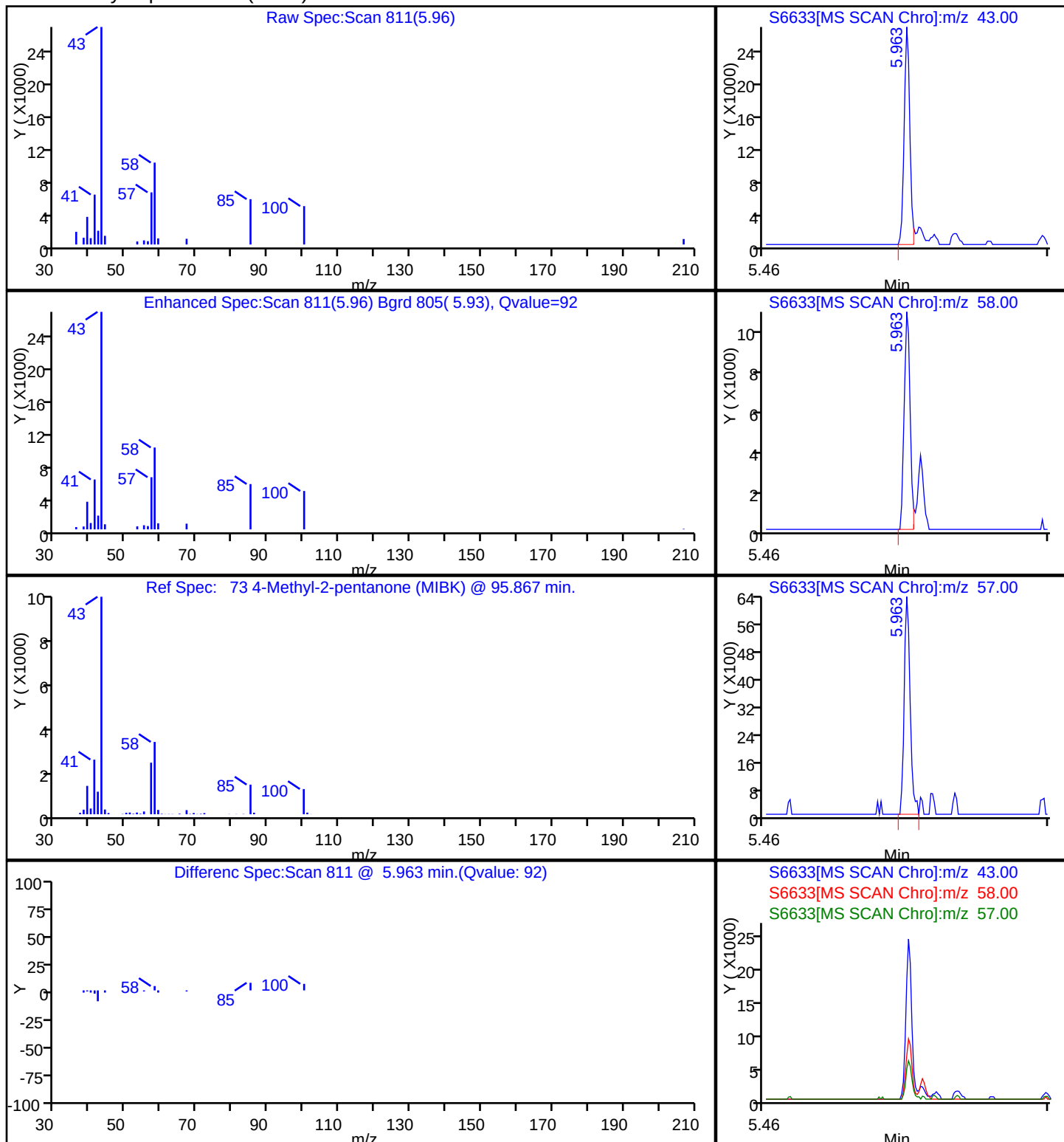
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

73 4-Methyl-2-pentanone (MIBK)



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

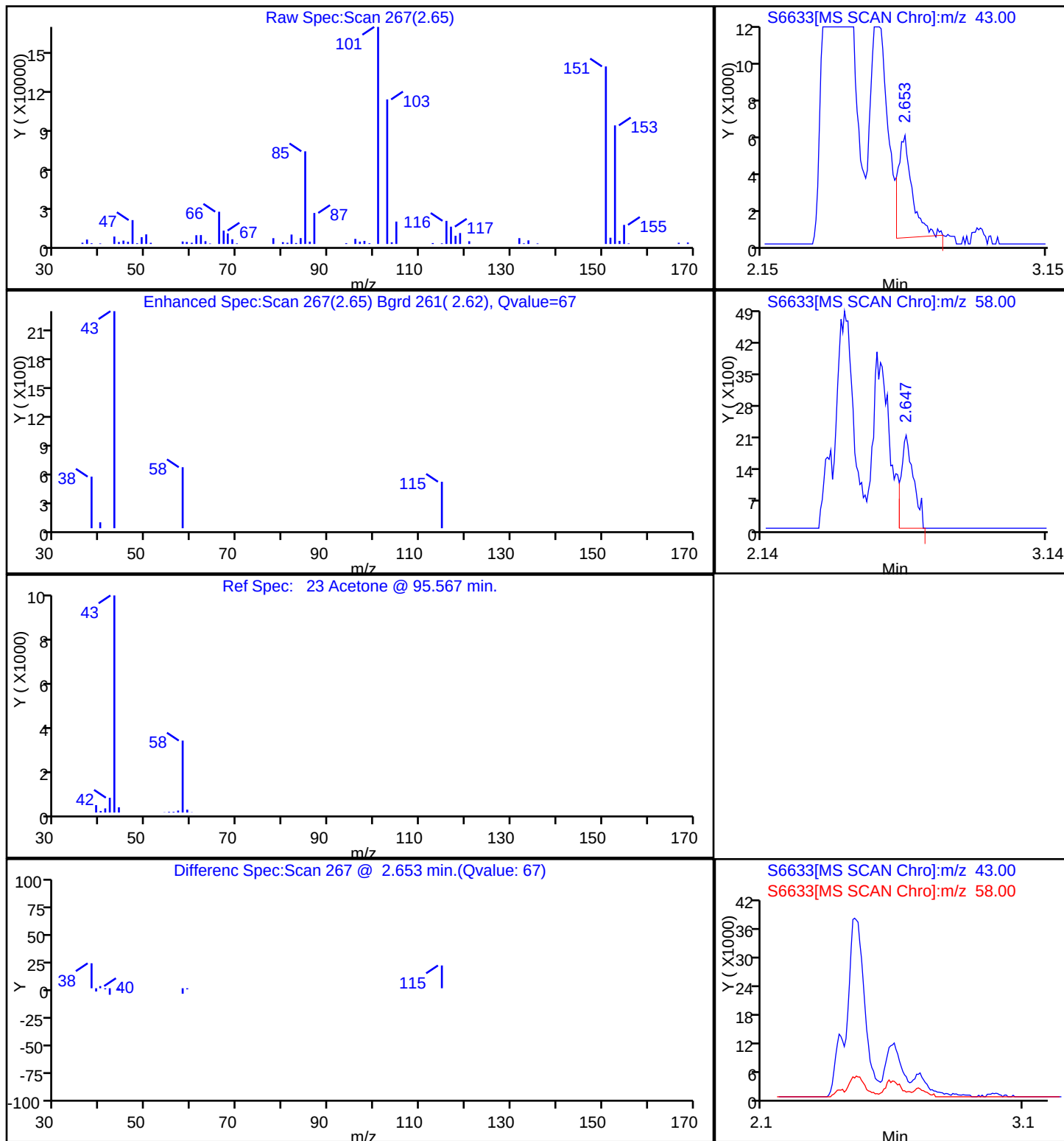
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

23 Acetone



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

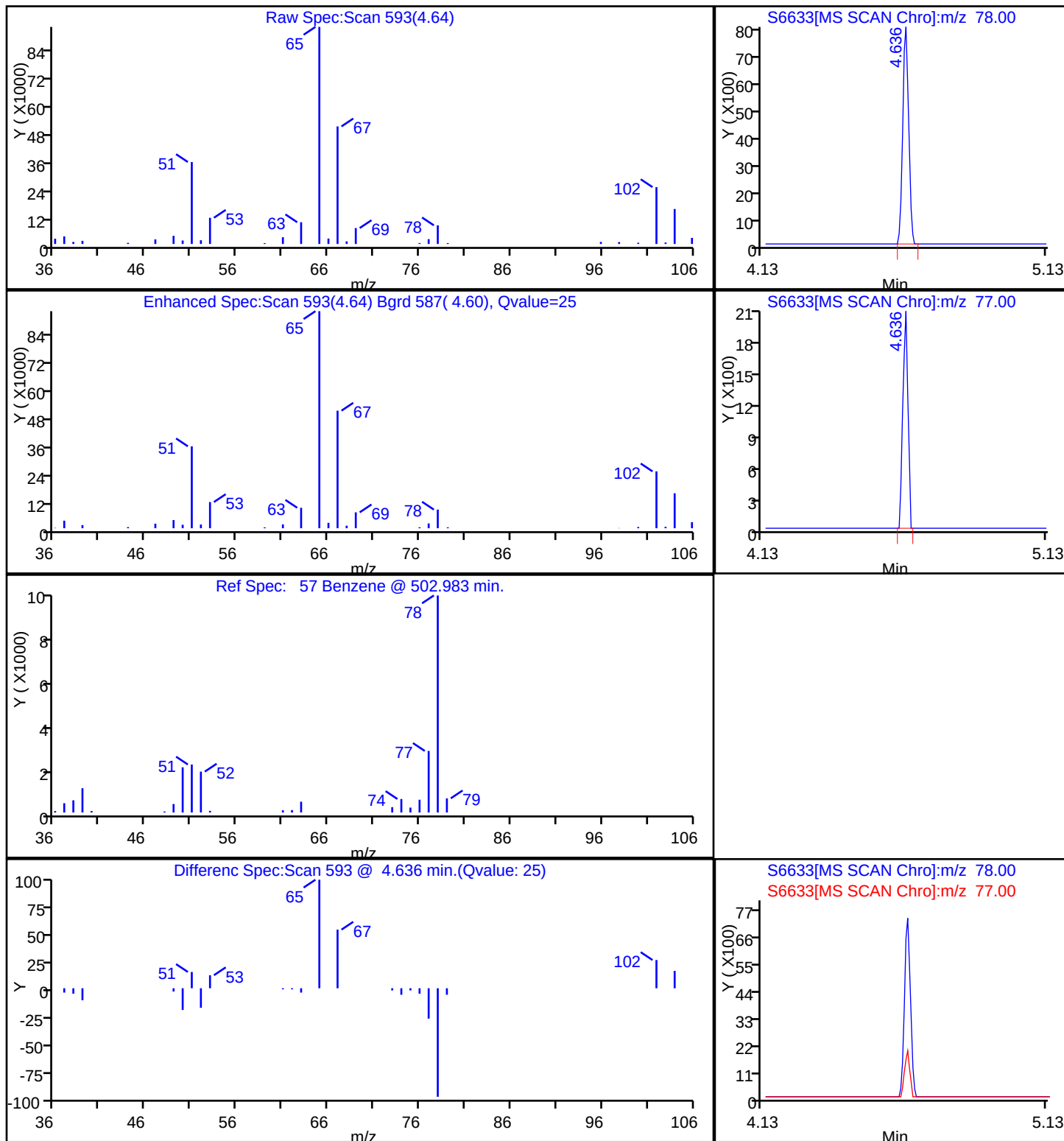
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

57 Benzene



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

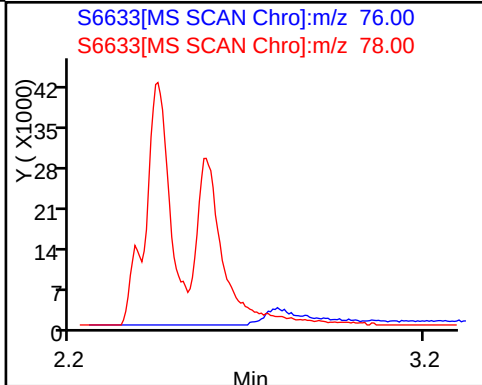
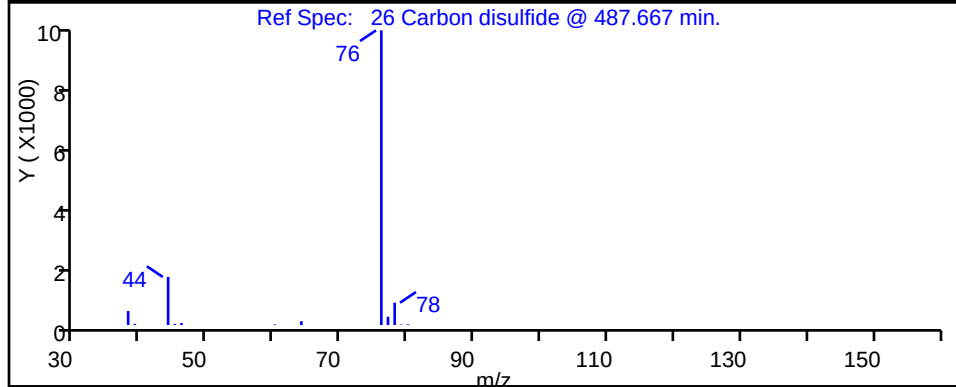
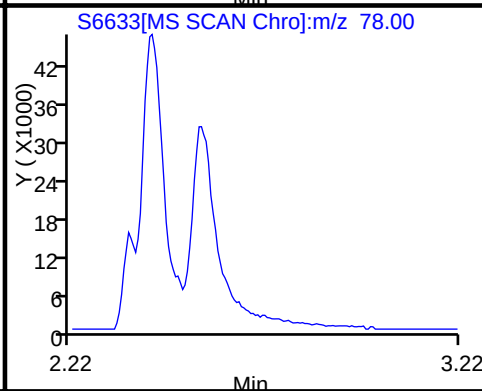
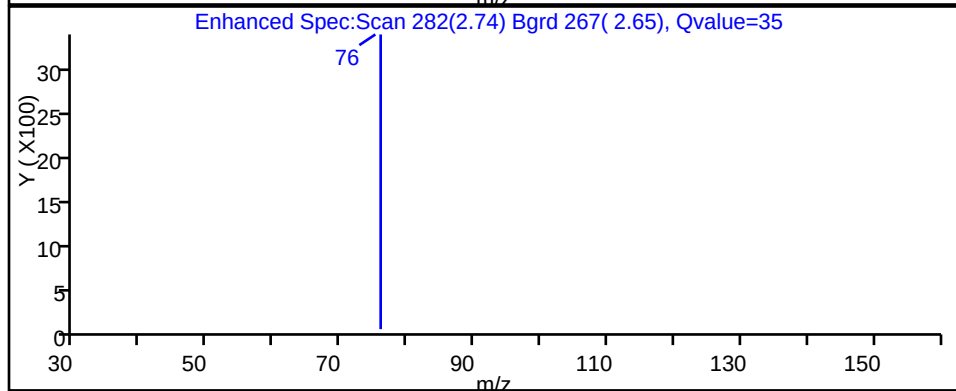
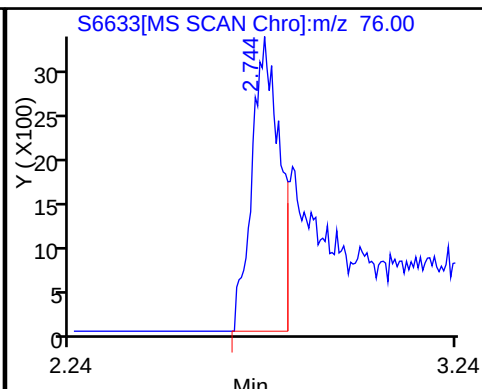
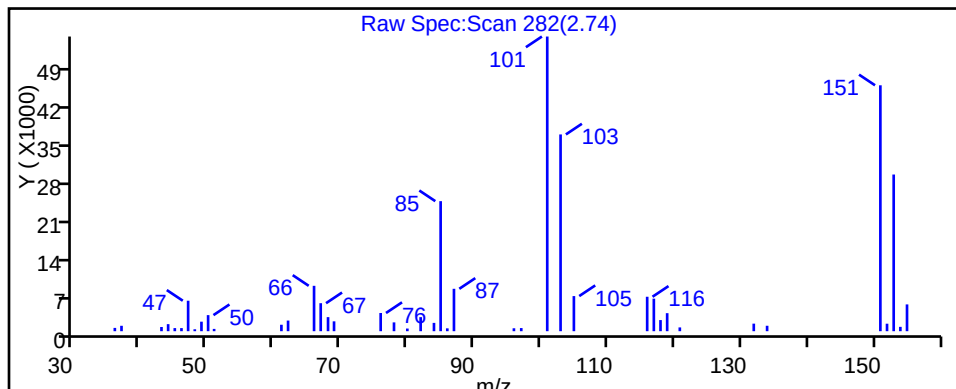
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

26 Carbon disulfide



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

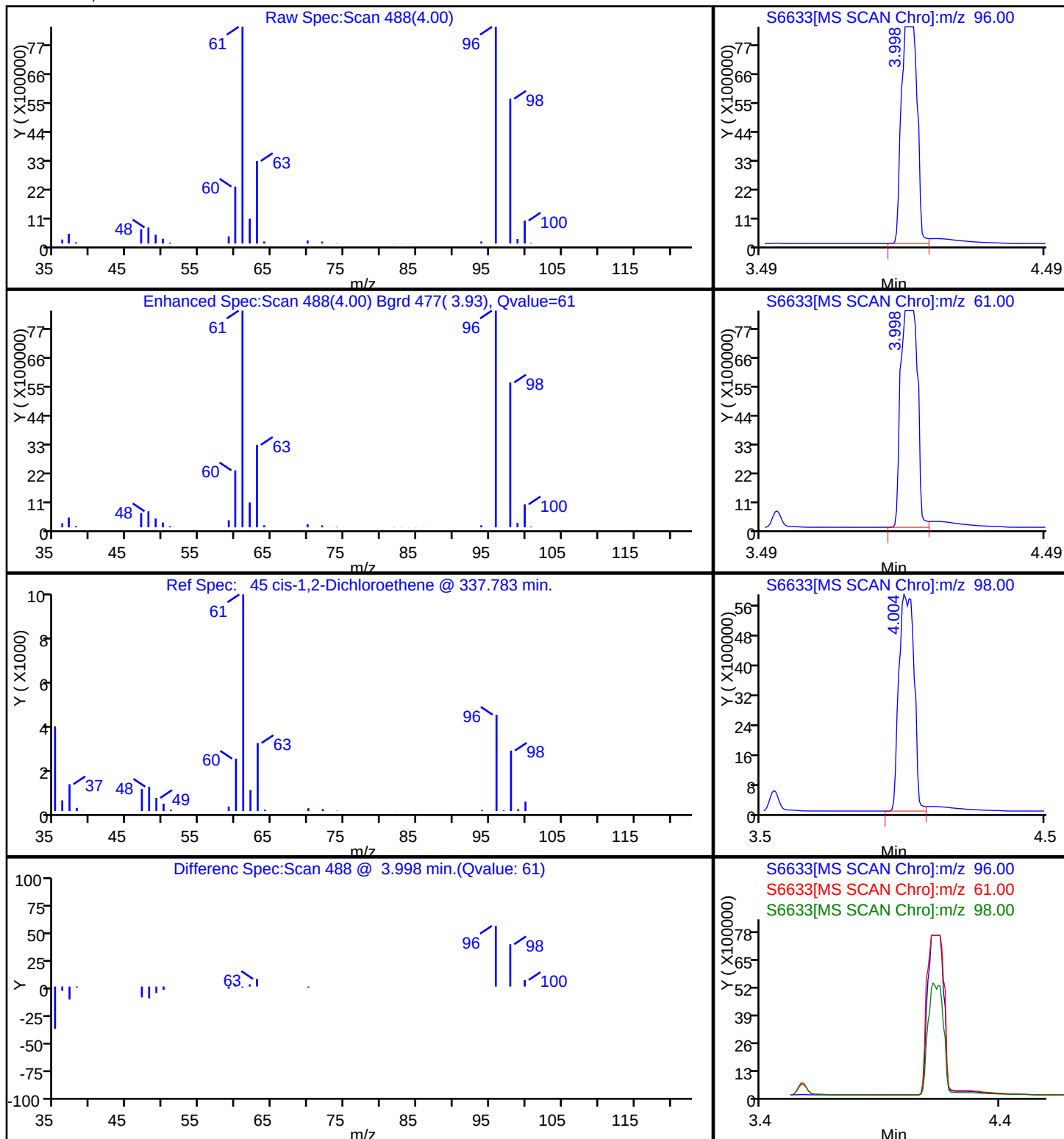
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

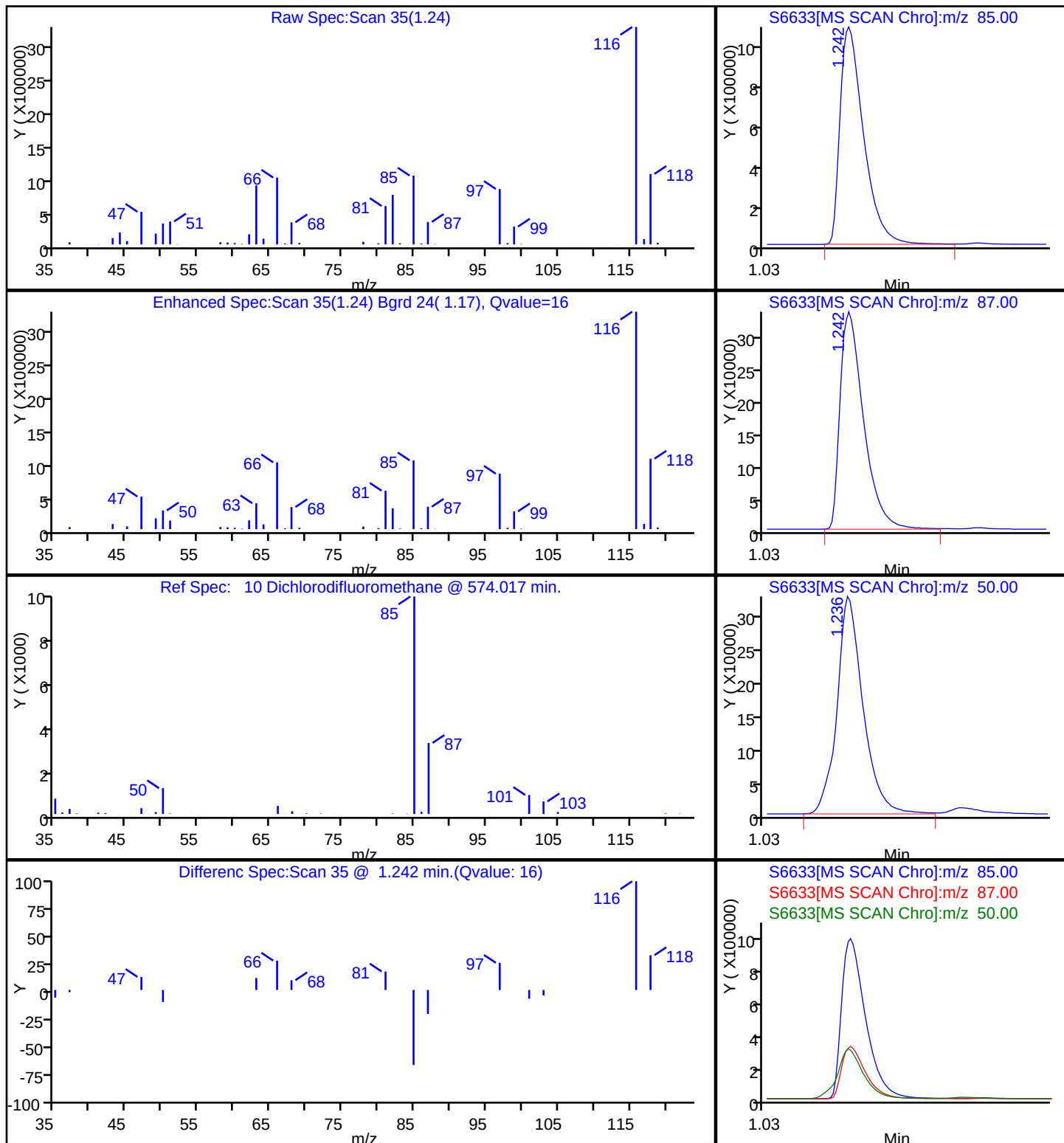
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

10 Dichlorodifluoromethane



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

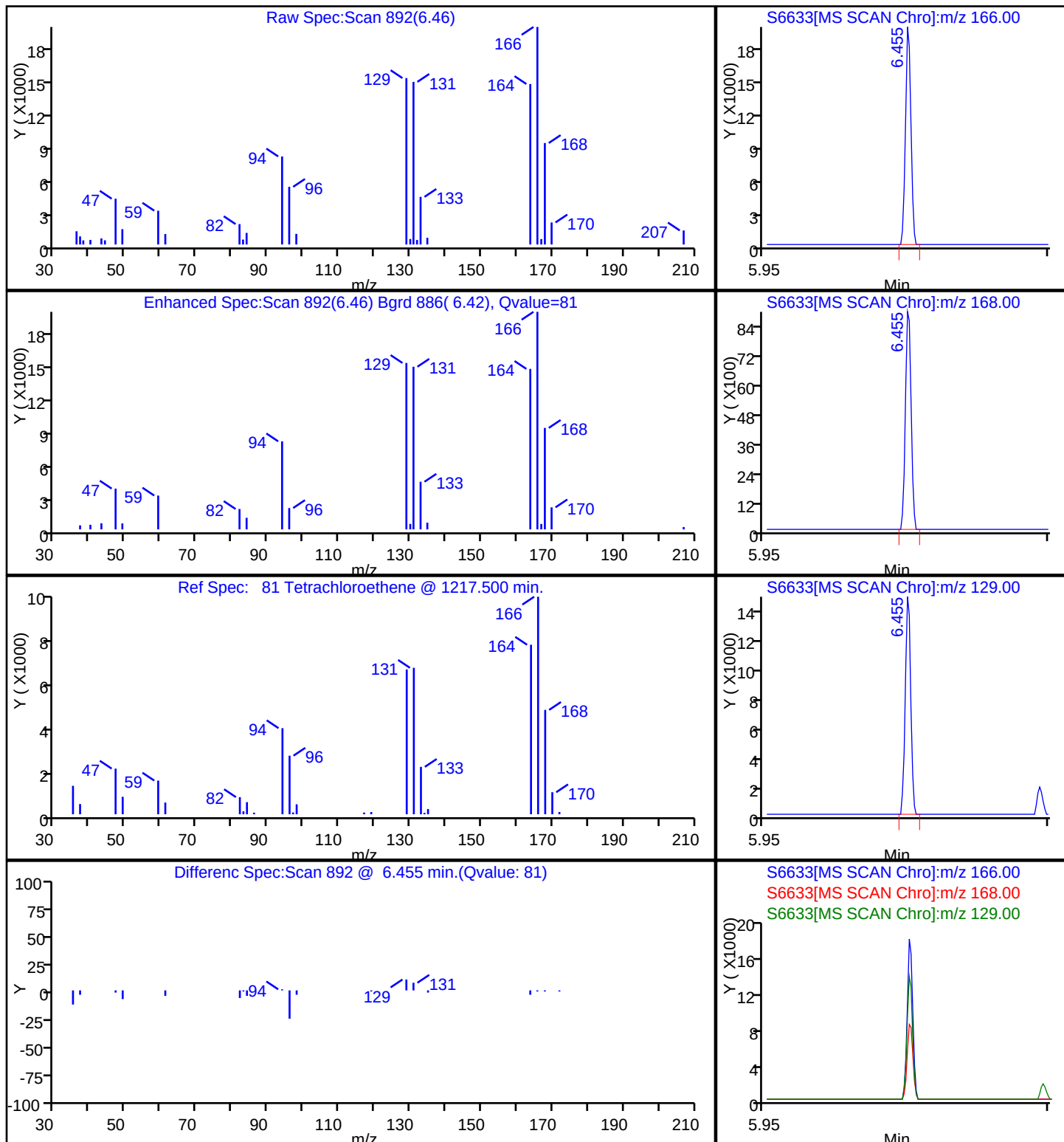
Lims Sample ID: 7

Operator ID: DHC

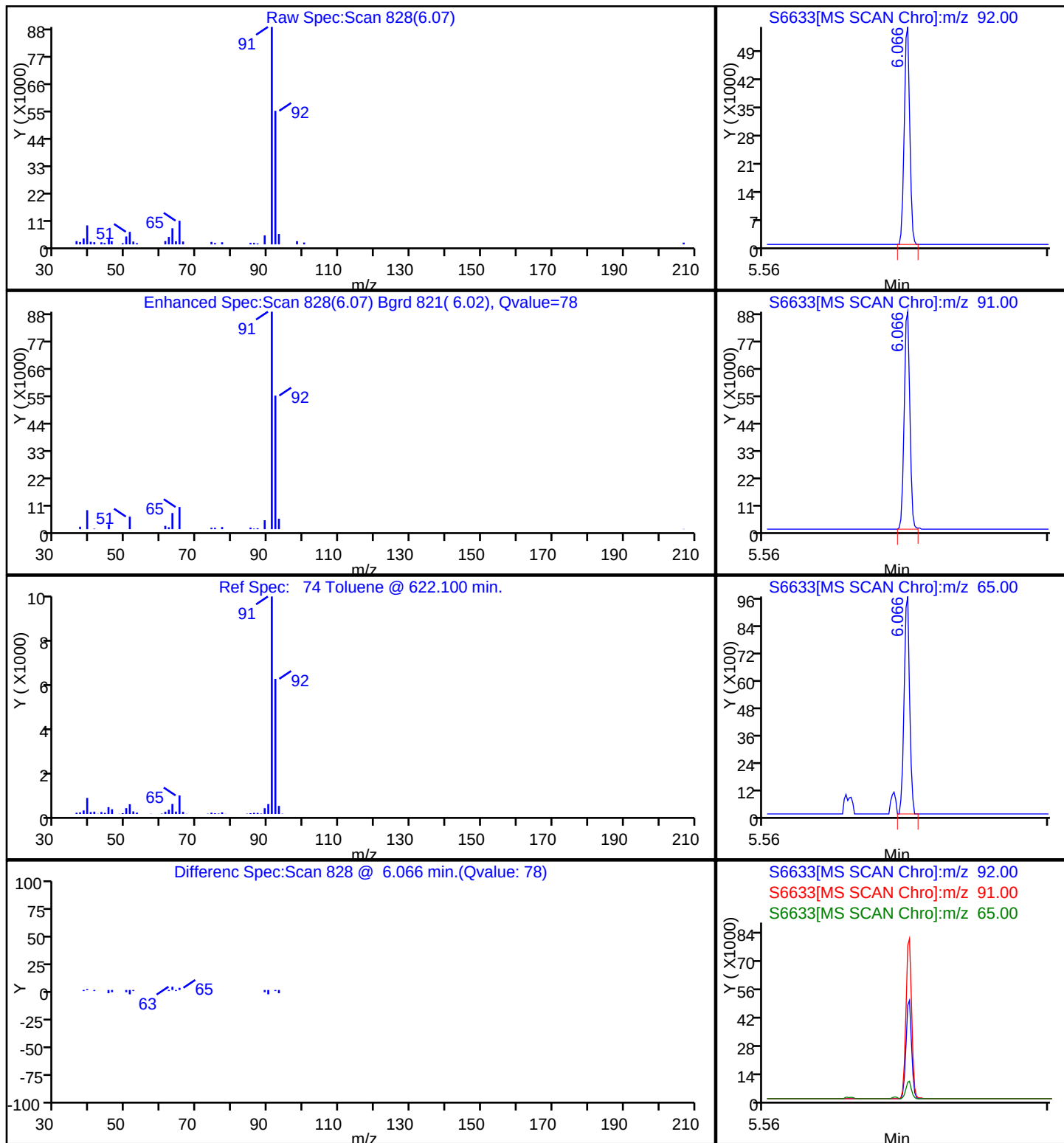
Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



74 Toluene



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

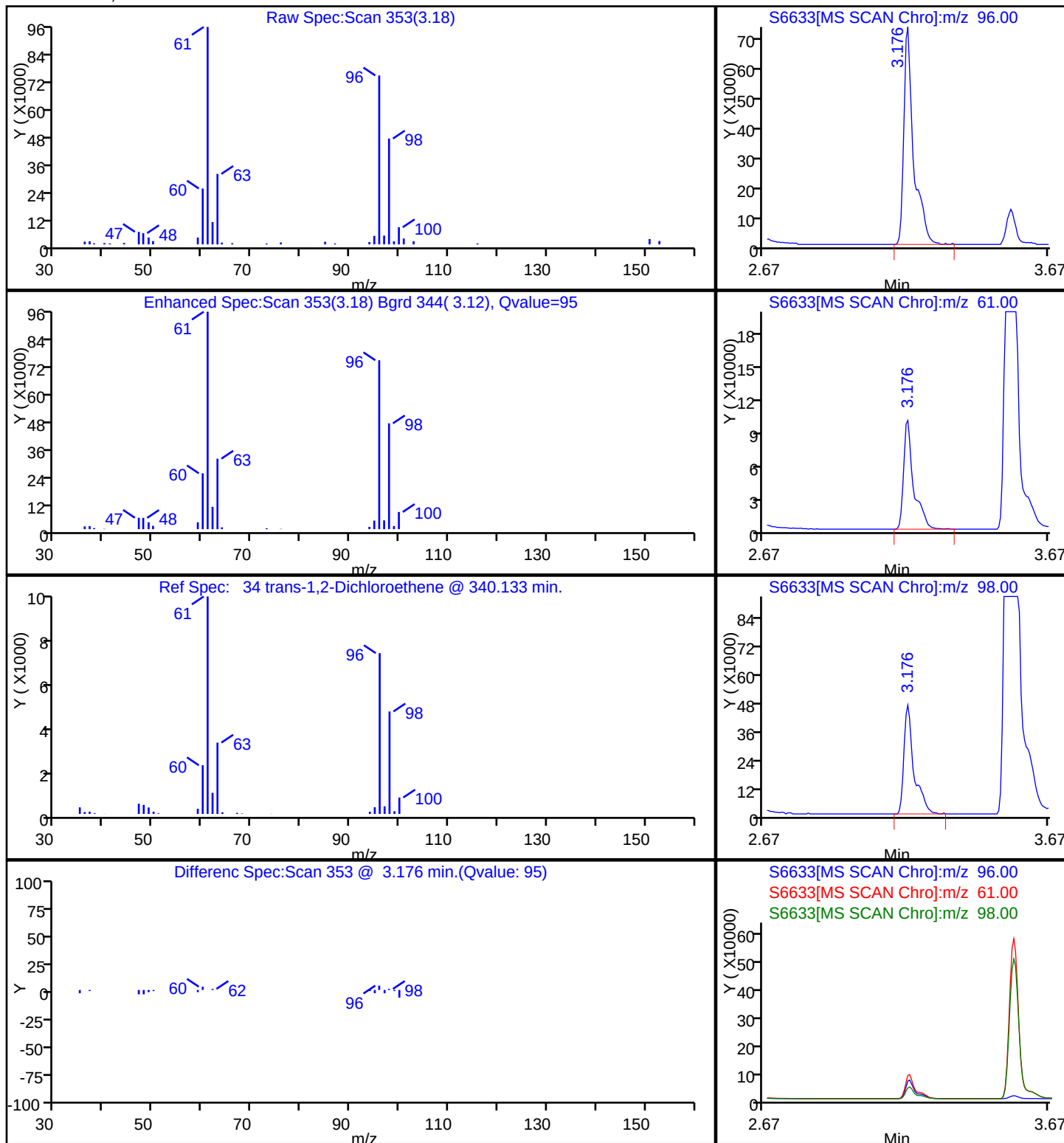
Lims Sample ID: 7

Operator ID: DHC

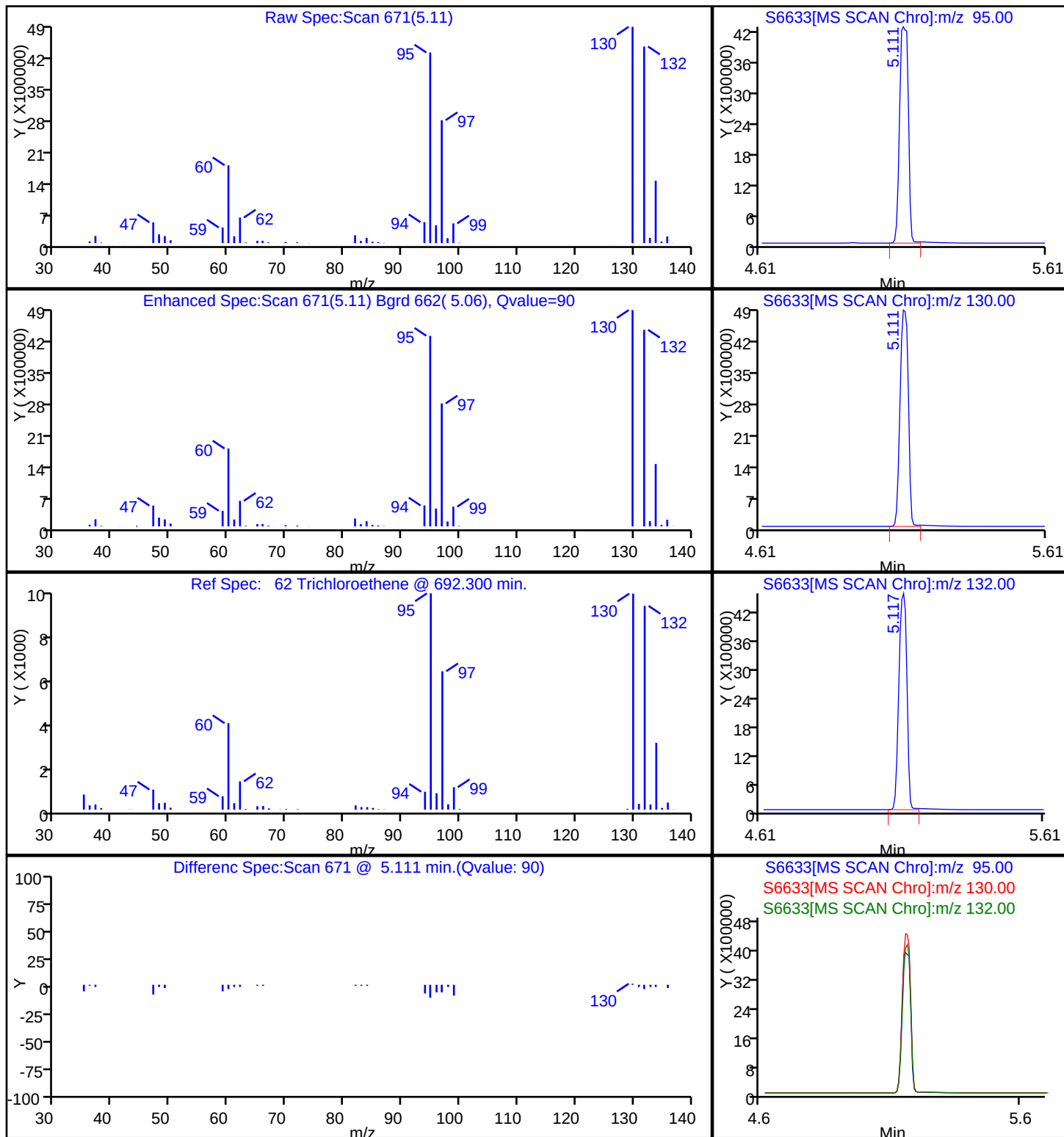
Column Type: ZB-624

Column Dia: 0.25 mm

34 trans-1,2-Dichloroethene



62 Trichloroethene



Report Date: 06-Oct-2011 07:46:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6633.D

Injection Date: 05-Oct-2011 11:48:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34016

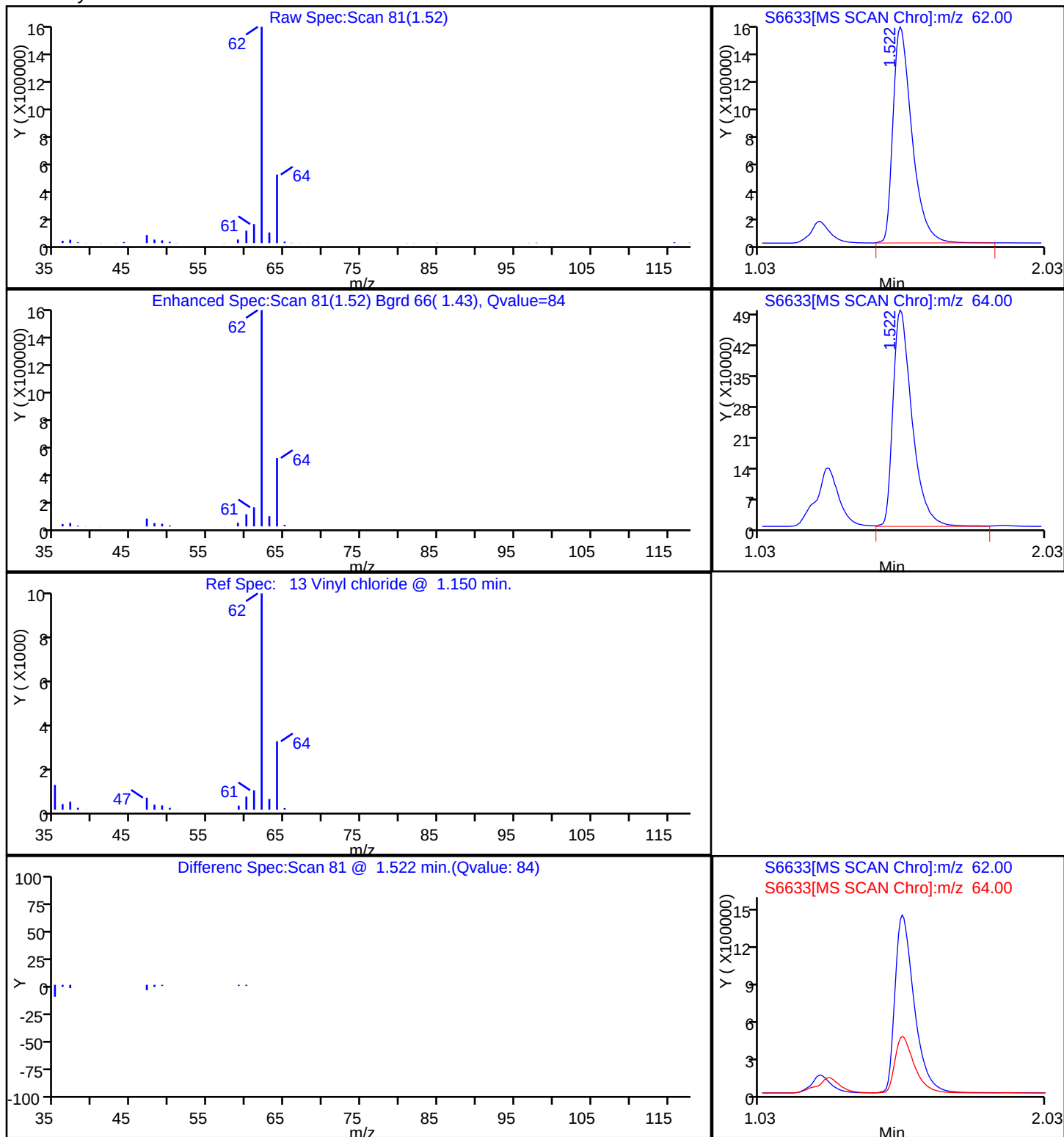
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ1 DL Lab Sample ID: 480-10504-2 DL

Matrix: Water Lab File ID: S6704.D

Analysis Method: 8260B Date Collected: 09/26/2011 15:40

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 19:06

Soil Aliquot Vol: _____ Dilution Factor: 500

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	410
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	110
79-00-5	1,1,2-Trichloroethane	ND		500	120
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	440	J	500	160
75-34-3	1,1-Dichloroethane	1900		500	190
75-35-4	1,1-Dichloroethene	ND		500	150
120-82-1	1,2,4-Trichlorobenzene	ND		500	210
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	200
106-93-4	1,2-Dibromoethane	ND		500	370
95-50-1	1,2-Dichlorobenzene	ND		500	400
107-06-2	1,2-Dichloroethane	ND		500	110
78-87-5	1,2-Dichloropropane	ND		500	360
541-73-1	1,3-Dichlorobenzene	ND		500	390
106-46-7	1,4-Dichlorobenzene	ND		500	420
591-78-6	2-Hexanone	ND		2500	620
78-93-3	2-Butanone (MEK)	ND		5000	660
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	1100
67-64-1	Acetone	ND		5000	1500
71-43-2	Benzene	ND		500	210
75-27-4	Bromodichloromethane	ND		500	200
75-25-2	Bromoform	ND		500	130
74-83-9	Bromomethane	ND		500	350
75-15-0	Carbon disulfide	ND		500	95
56-23-5	Carbon tetrachloride	ND		500	140
108-90-7	Chlorobenzene	ND		500	380
124-48-1	Dibromochloromethane	ND		500	160
75-00-3	Chloroethane	ND		500	160
67-66-3	Chloroform	ND		500	170
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	27000		500	410
10061-01-5	cis-1,3-Dichloropropene	ND		500	180
110-82-7	Cyclohexane	ND		500	90
75-71-8	Dichlorodifluoromethane	ND		500	340
100-41-4	Ethylbenzene	ND		500	370
98-82-8	Isopropylbenzene	ND		500	400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ1 DL Lab Sample ID: 480-10504-2 DL
 Matrix: Water Lab File ID: S6704.D
 Analysis Method: 8260B Date Collected: 09/26/2011 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 19:06
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	250
1634-04-4	Methyl tert-butyl ether	ND		500	80
108-87-2	Methylcyclohexane	ND		500	80
75-09-2	Methylene Chloride	ND		500	220
100-42-5	Styrene	ND		500	370
127-18-4	Tetrachloroethene	ND		500	180
108-88-3	Toluene	ND		500	260
156-60-5	trans-1,2-Dichloroethene	ND		500	450
10061-02-6	trans-1,3-Dichloropropene	ND		500	190
79-01-6	Trichloroethene	2100		500	230
75-69-4	Trichlorofluoromethane	ND		500	440
75-01-4	Vinyl chloride	720		500	450
1330-20-7	Xylenes, Total	ND		1000	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6704.D
 Lims ID: 480-10504-F-2 Client ID: A2-PZ1
 Inject. Date: 07-Oct-2011 19:06:30 Dil. Factor: 500.0000
 Sample Type: Client
 Sample ID: 480-10504-F-2
 Misc. Info.: 480-0006515-019 =480-0006515-019
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 23
 Lims Batch ID: 34409 Lims Sample ID: 19
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:34:04 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 08-Oct-2011 07:08:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	404356	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	184509	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	192570	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	0.0	96	69372	30.6	
\$ 5 Toluene-d8 (Surr)	98	6.012	6.011	0.001	92	428739	29.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	88	129645	28.1	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.510	1.509	0.001	19	6270	1.43	
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.868					
17 Trichlorofluoromethane	101		2.093					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.544	2.550	-0.006	0	3086	0.8775	
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.641					
26 Carbon disulfide	76		2.726					
27 Methyl acetate	43		2.896					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.164					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.536	3.535	0.001	59	29035	3.83	
45 cis-1,2-Dichloroethene	96	3.998	3.992	0.006	67	260630	53.7	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.247					
52 Cyclohexane	56		4.338					
51 1,1,1-Trichloroethane	97		4.344					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	87	18222	4.10	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.299					
68 Dichlorobromomethane	83		5.518					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.455					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.623					
92 Styrene	104		7.648					
95 Bromoform	173		7.836					
94 Isopropylbenzene	105		7.909					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.937					
113 1,4-Dichlorobenzene	146		9.010					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 08-Oct-2011 07:08:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6704.D

Injection Date: 07-Oct-2011 19:06:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34409

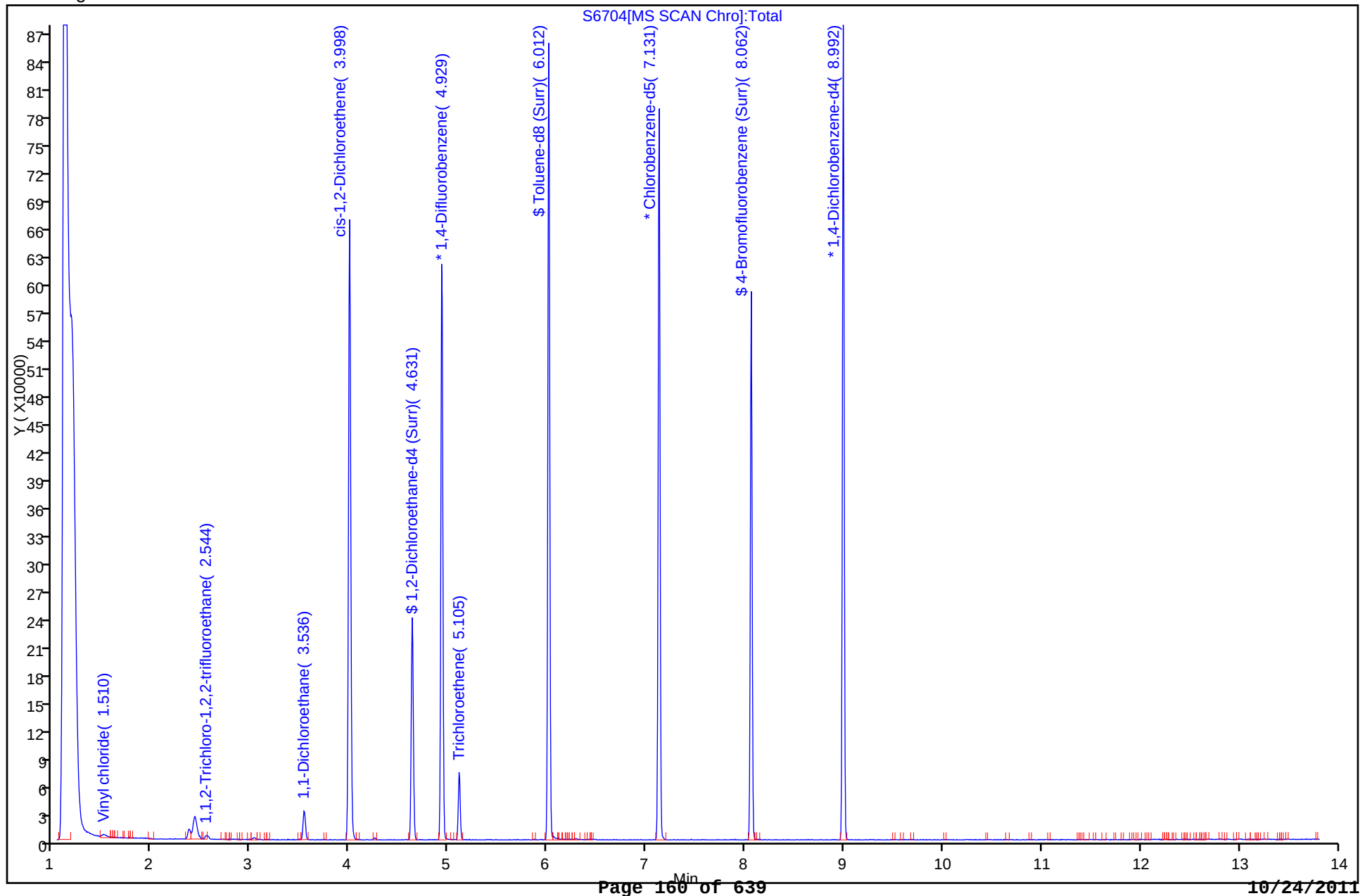
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 08-Oct-2011 07:08:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6704.D

Injection Date: 07-Oct-2011 19:06:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34409

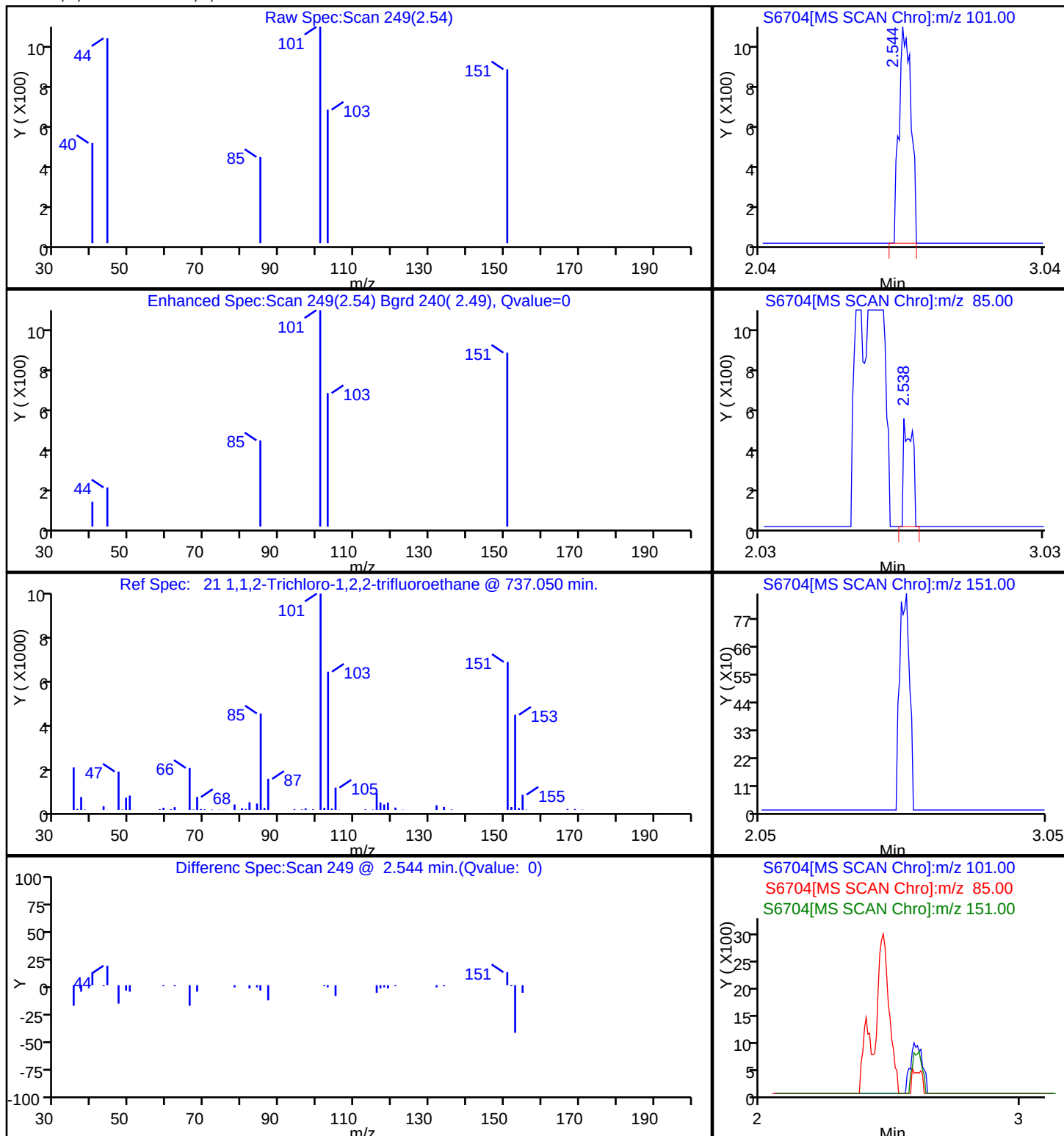
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

21 1,1,2-Trichloro-1,2,2-trifluoroethane



Report Date: 08-Oct-2011 07:08:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6704.D

Injection Date: 07-Oct-2011 19:06:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34409

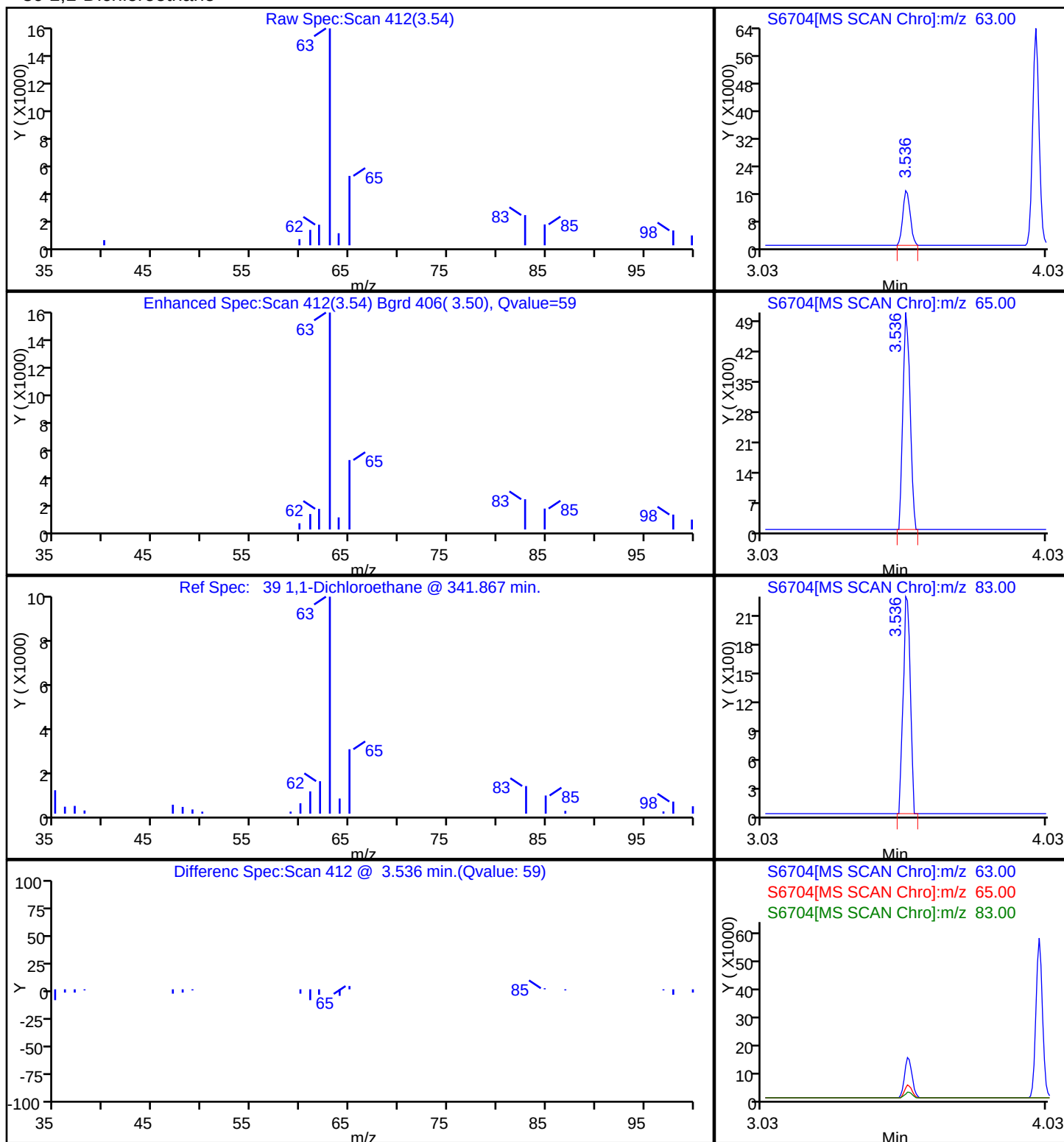
Lims Sample ID: 19

Operator ID: DHC

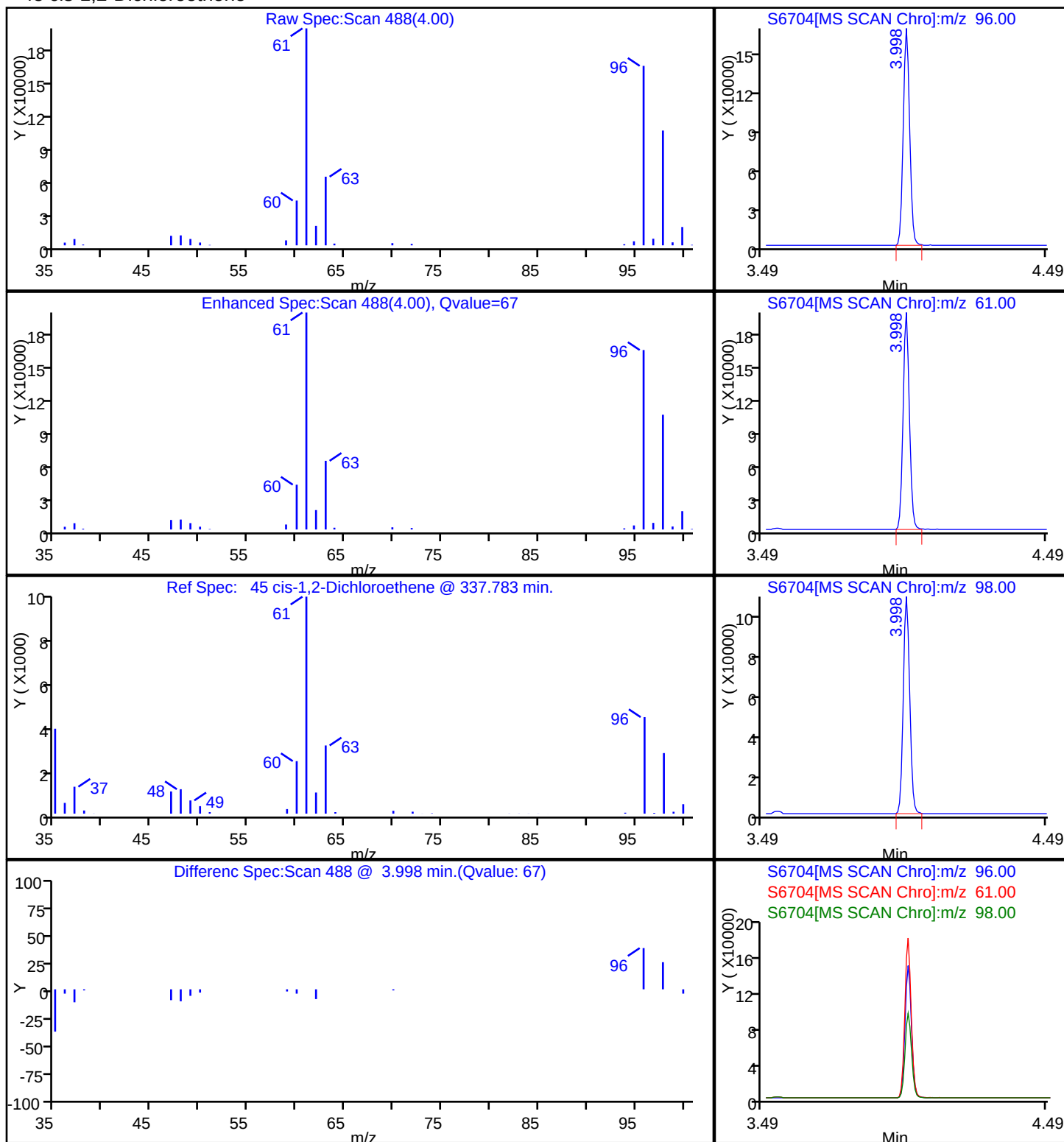
Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



45 cis-1,2-Dichloroethene



Report Date: 08-Oct-2011 07:08:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6704.D

Injection Date: 07-Oct-2011 19:06:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ1

Instrument ID: HP5973S

Lims Batch ID: 34409

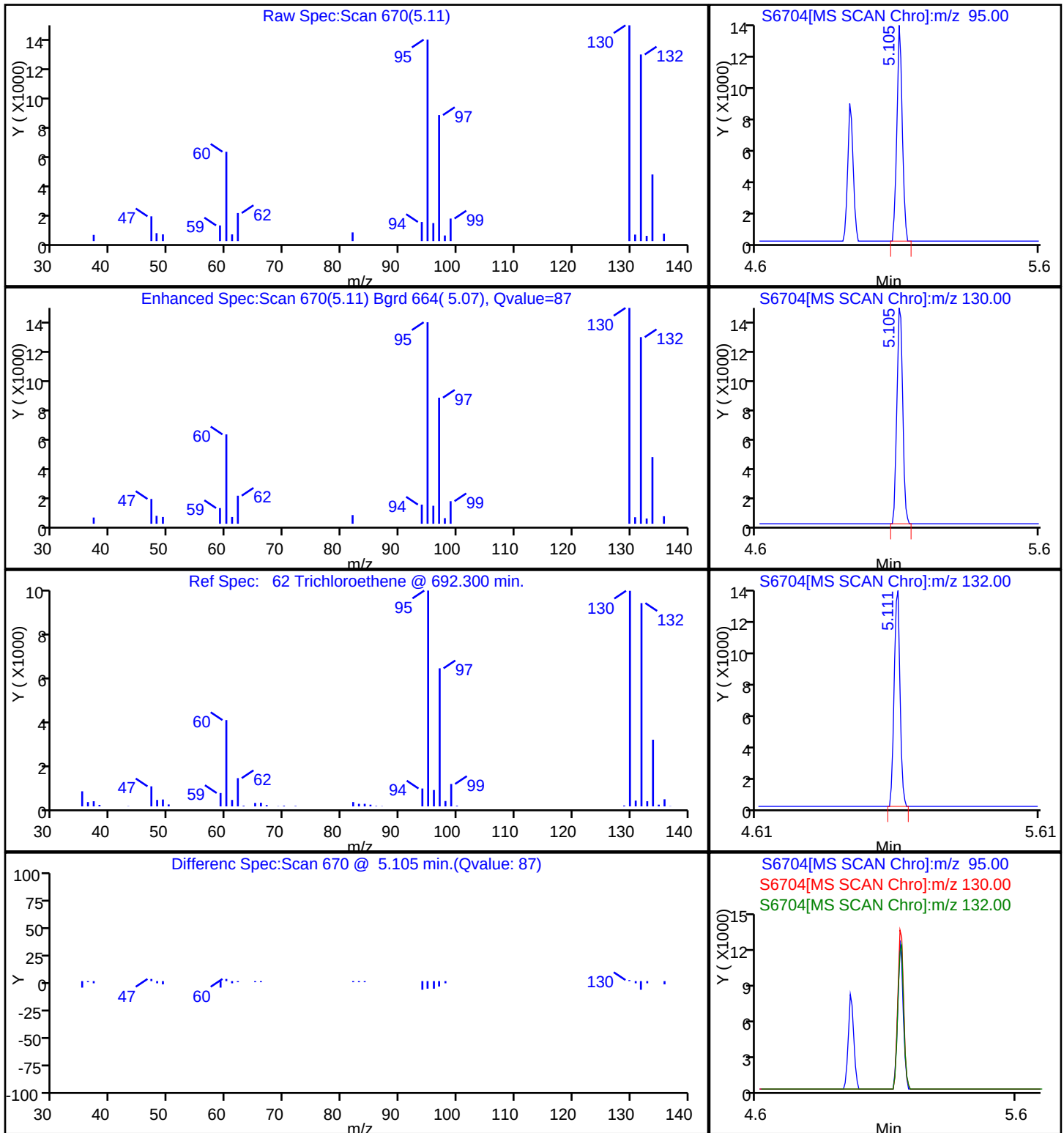
Lims Sample ID: 19

Operator ID: DHC

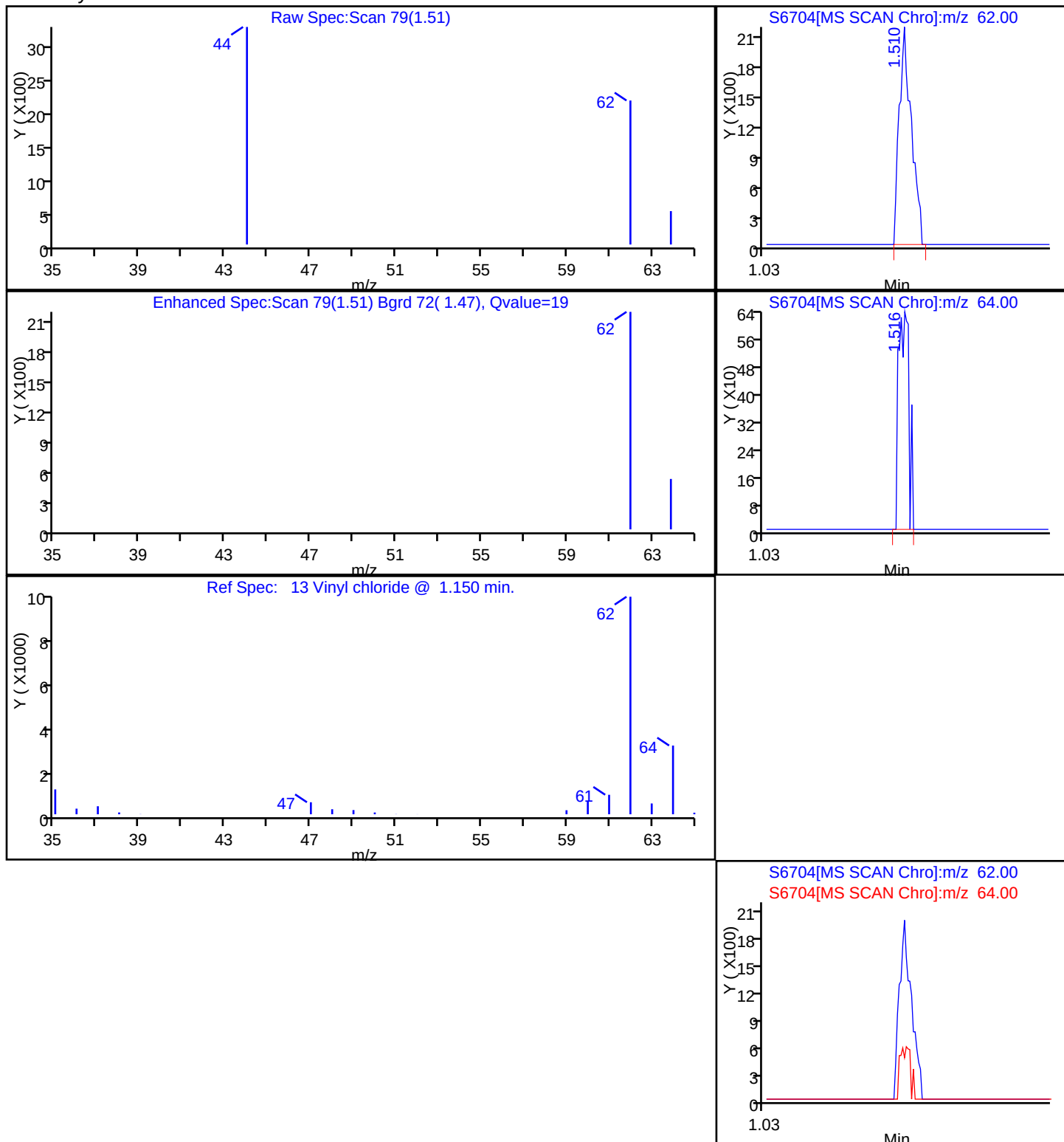
Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ7 Lab Sample ID: 480-10504-3

Matrix: Water Lab File ID: S6670.D

Analysis Method: 8260B Date Collected: 09/26/2011 16:05

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 16:43

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	9.8		1.0	0.38
75-35-4	1,1-Dichloroethene	0.73	J	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	140	E	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ7 Lab Sample ID: 480-10504-3
 Matrix: Water Lab File ID: S6670.D
 Analysis Method: 8260B Date Collected: 09/26/2011 16:05
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 16:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	450	E	1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	340	E	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	6.5		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	112		71-126
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D
 Lims ID: 480-10504-B-3 Client ID: A2-PZ7
 Inject. Date: 06-Oct-2011 16:43:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-B-3
 Misc. Info.: 480-0006479-017 =480-0006479-017
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 17
 Lims Batch ID: 34202 Lims Sample ID: 17
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:36:05 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 06-Oct-2011 17:10:05

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	431267	25.0	
* 2 Chlorobenzene-d5	82	7.125	7.131	-0.006	84	198043	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	202741	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	95	72858	30.1	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	438637	27.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	89	134743	27.2	
10 Dichlorodifluoromethane	85		1.266					
12 Chloromethane	50		1.406					
13 Vinyl chloride	62	1.503	1.510	-0.007	57	30499	6.54	
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.881					
17 Trichlorofluoromethane	101		2.094					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96	2.550	2.550	0.0	39	3181	0.7302	
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.732					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	82	78976	9.76	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	720171	139.3	E
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.345					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	1590417	335.4	E
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.300					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.462	6.456	0.006	90	2238000	451.9	E
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91	7.216	7.216	0.0	68	13545	0.5974	
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

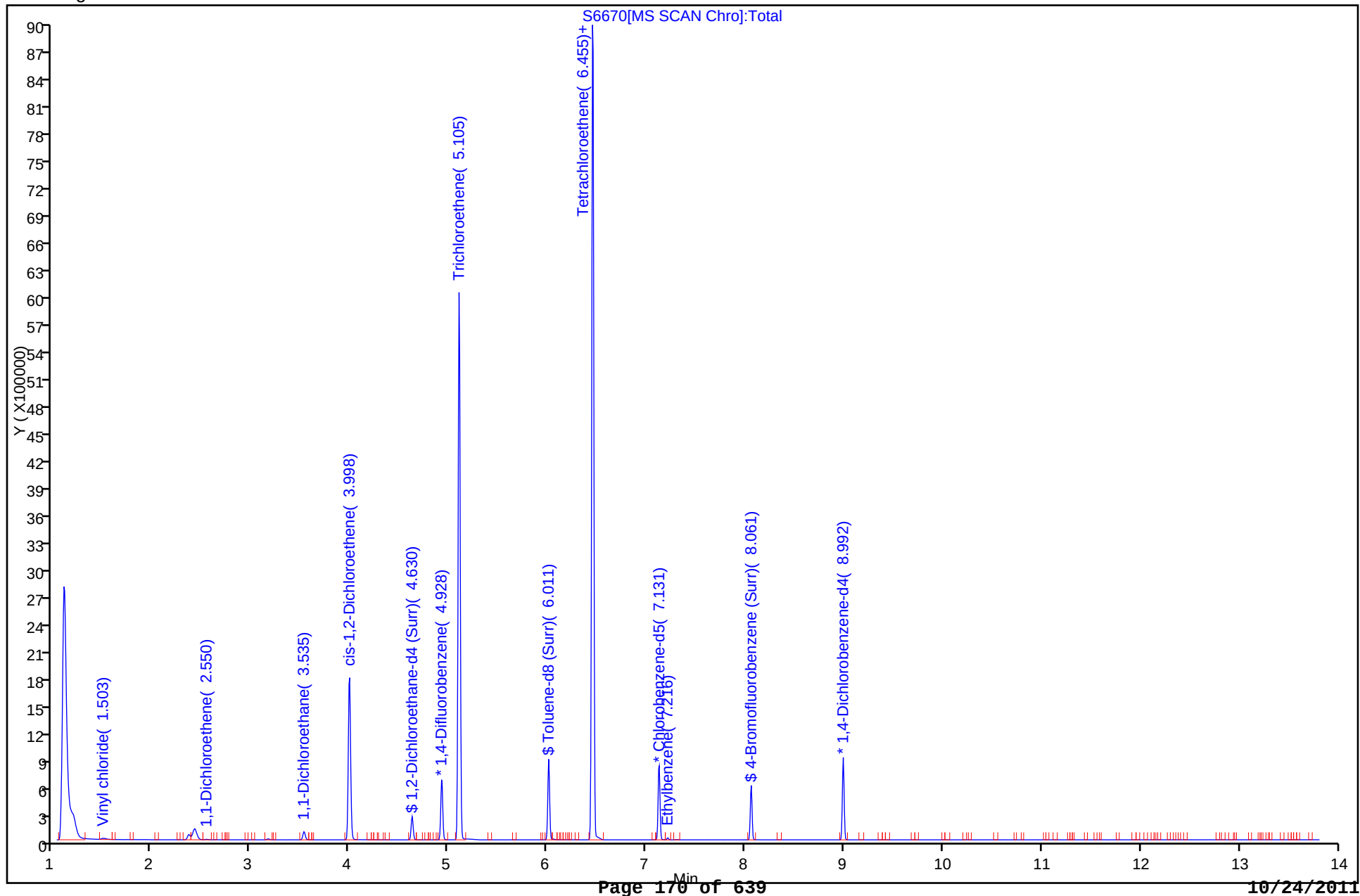
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

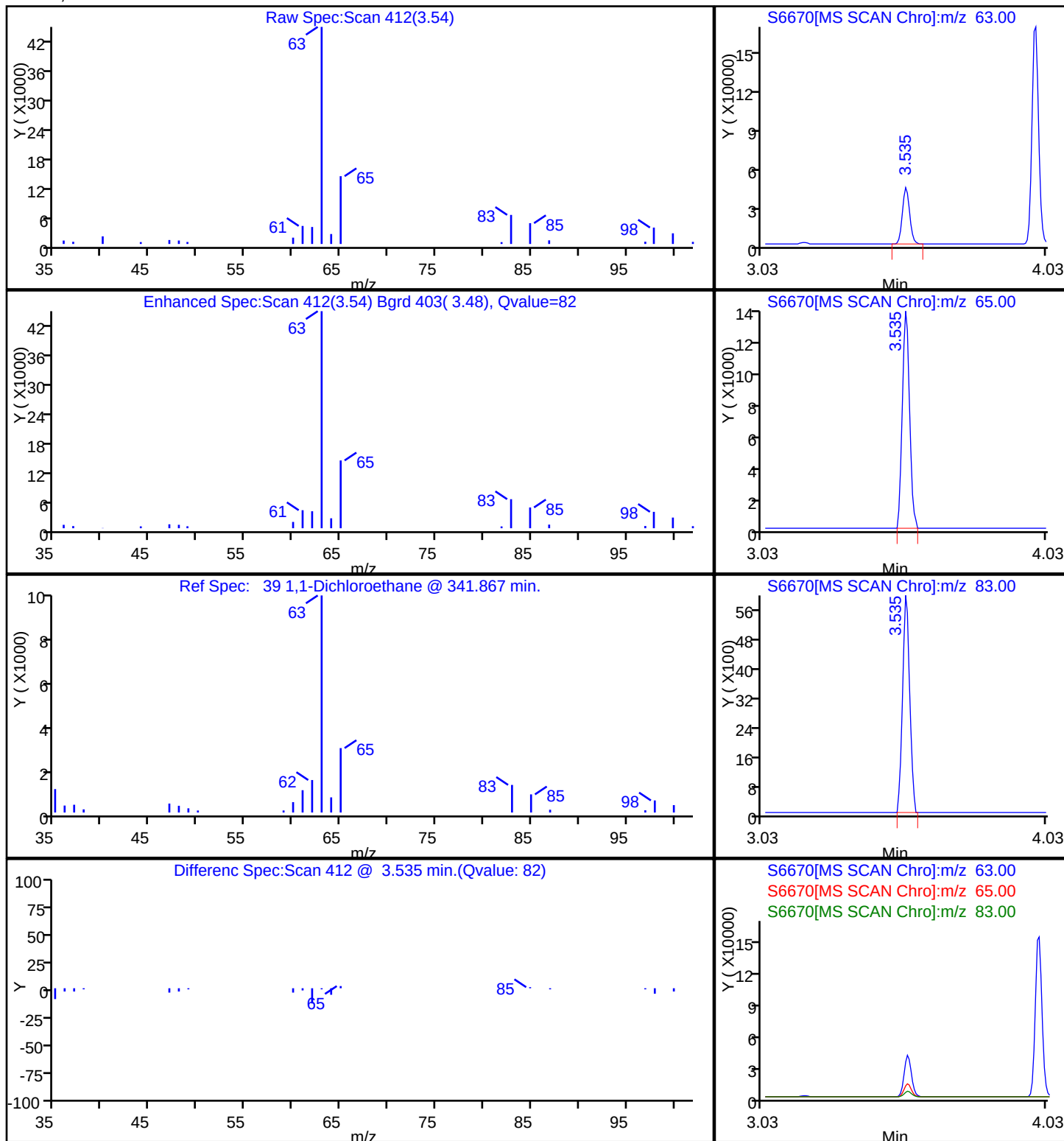
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

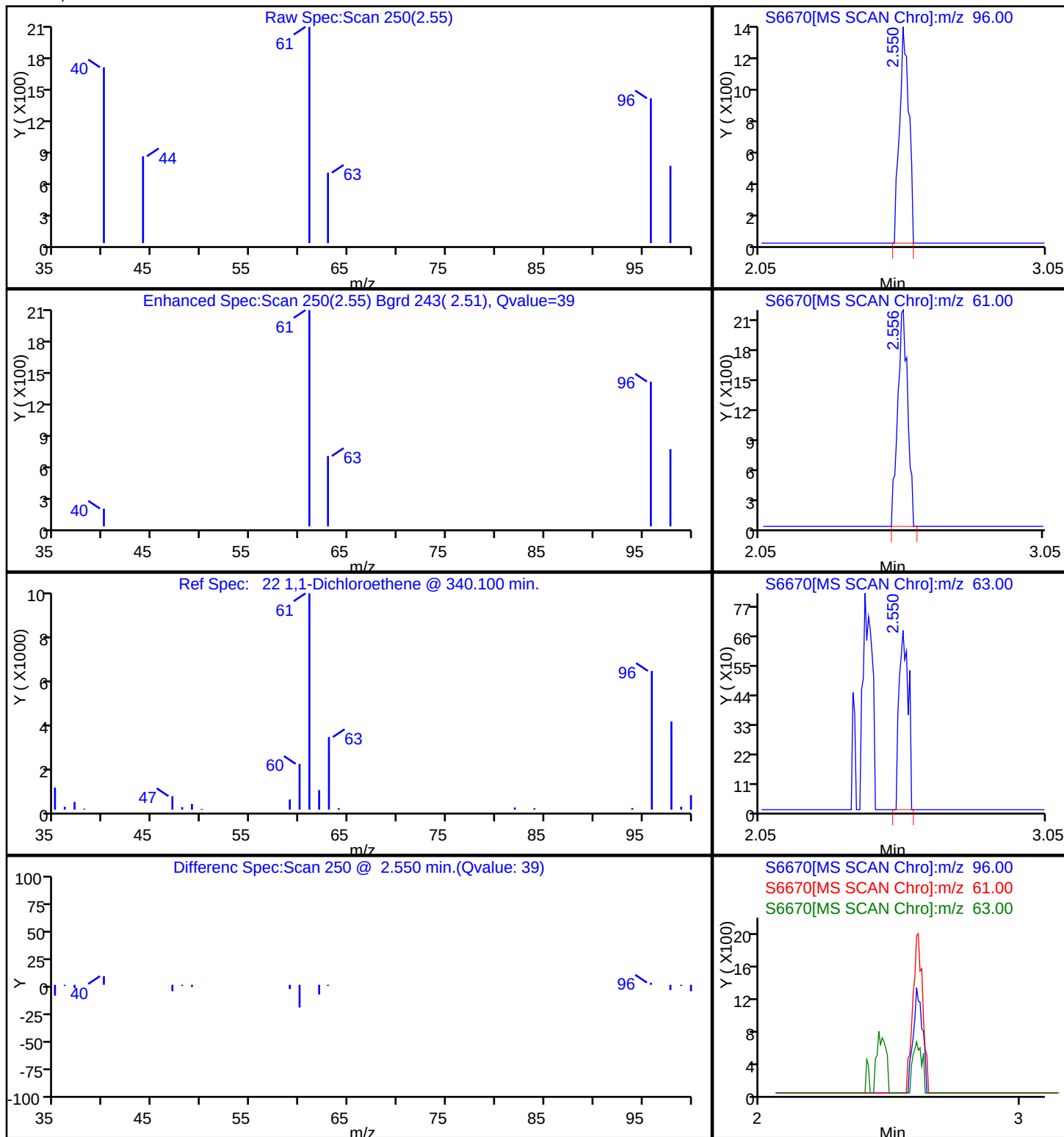
Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 17:10:05
Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D
Injection Date: 06-Oct-2011 16:43:30
Client ID: A2-PZ7
Lims Batch ID: 34202
Operator ID: DHC
Column Type: ZB-624
22 1,1-Dichloroethene

Chrom Revision: 2.0 01-Sep-2011 14:10:00
Limit Group: MV - 8260B ICAL
Instrument ID: HP5973S
Lims Sample ID: 17
Column Dia: 0.25 mm



Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

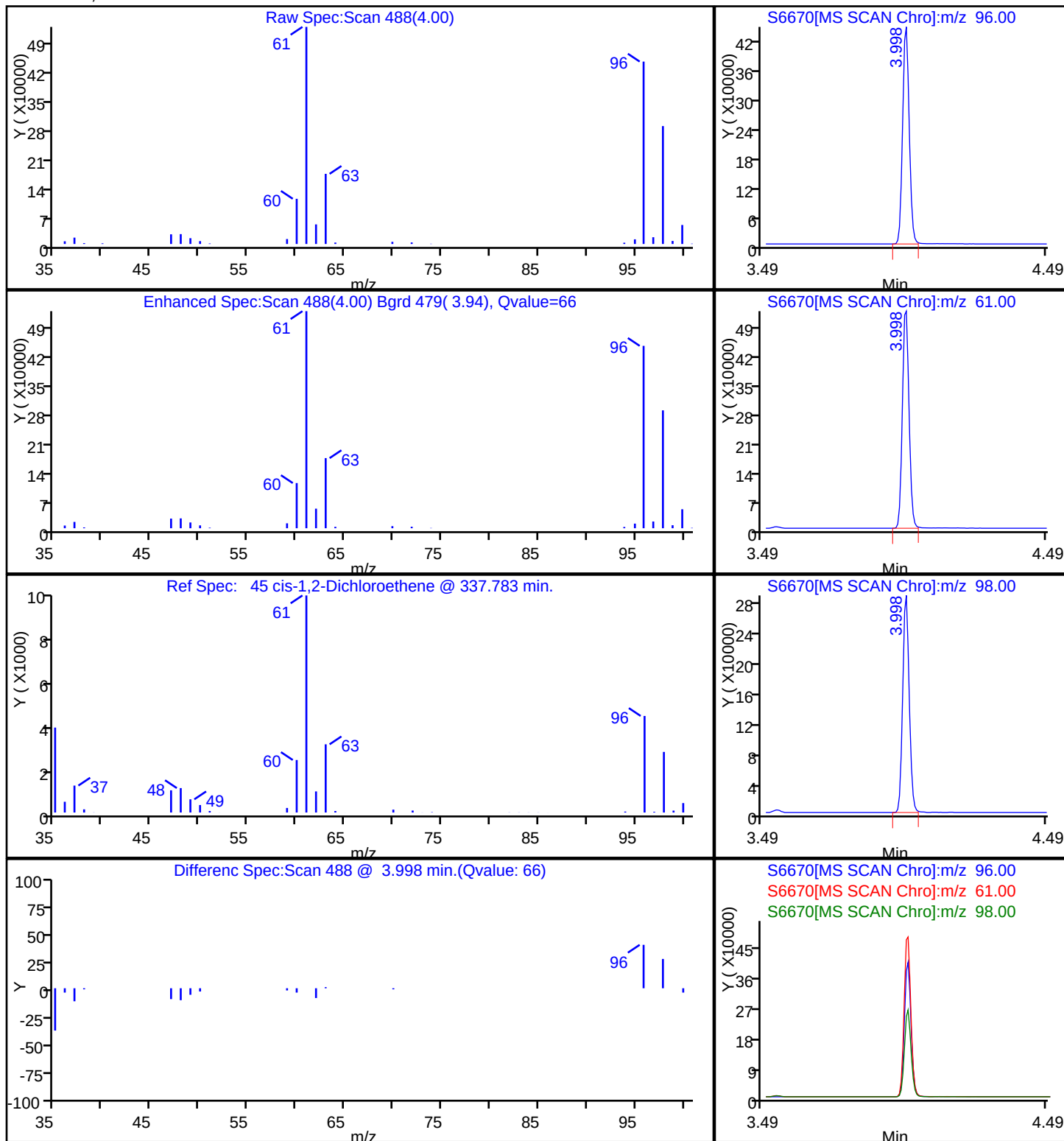
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

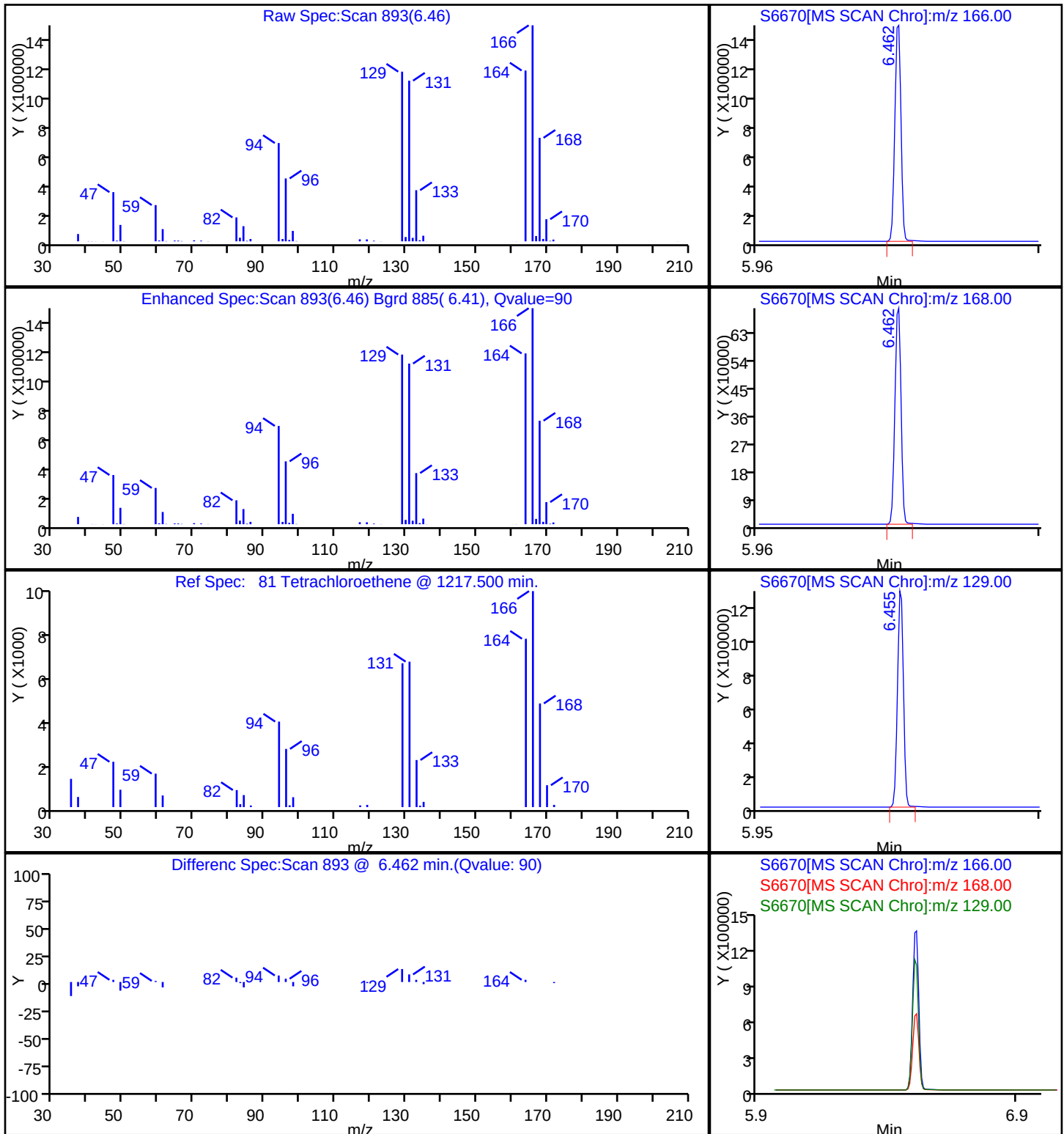
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

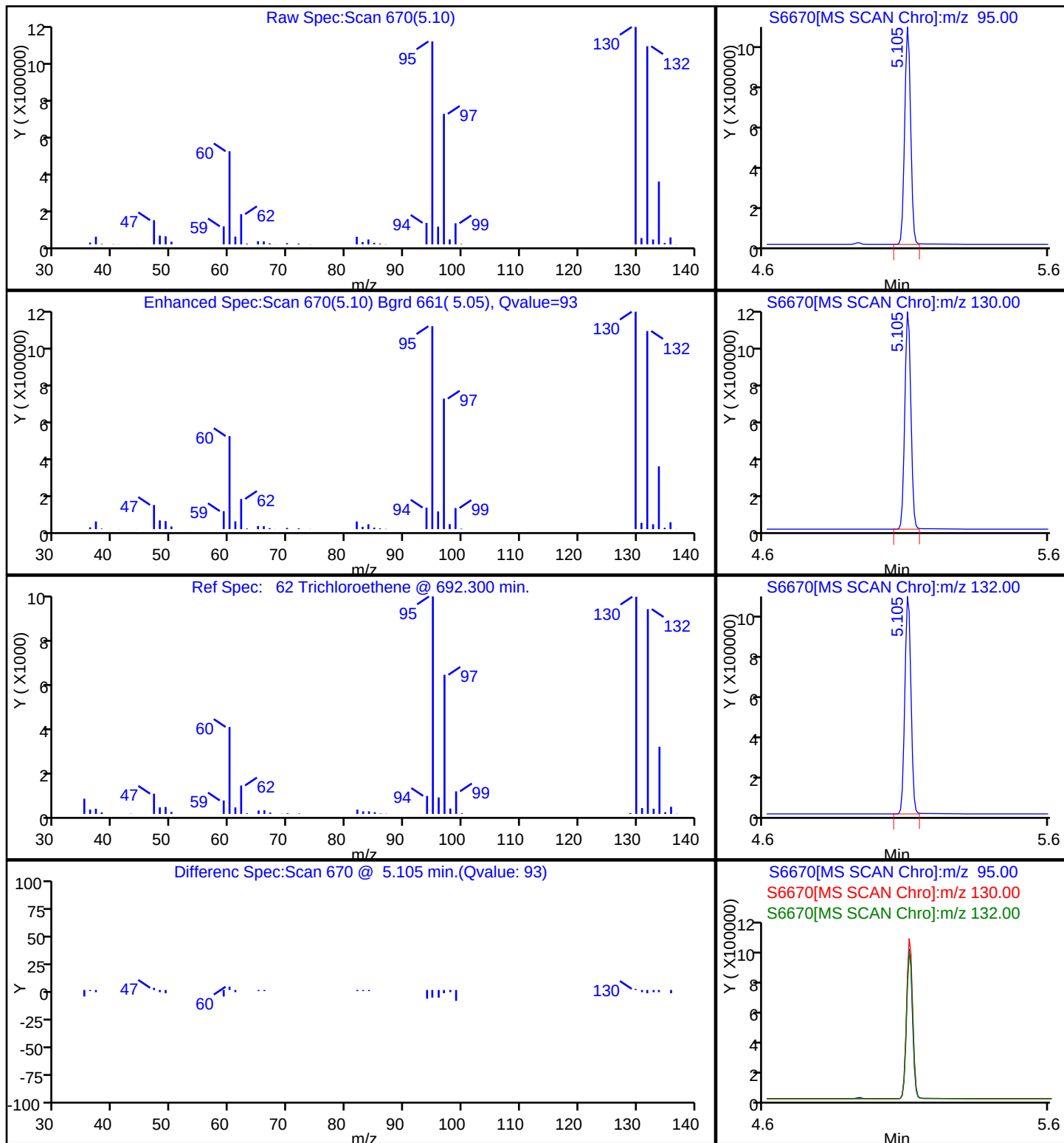
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



Report Date: 06-Oct-2011 17:10:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6670.D

Injection Date: 06-Oct-2011 16:43:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34202

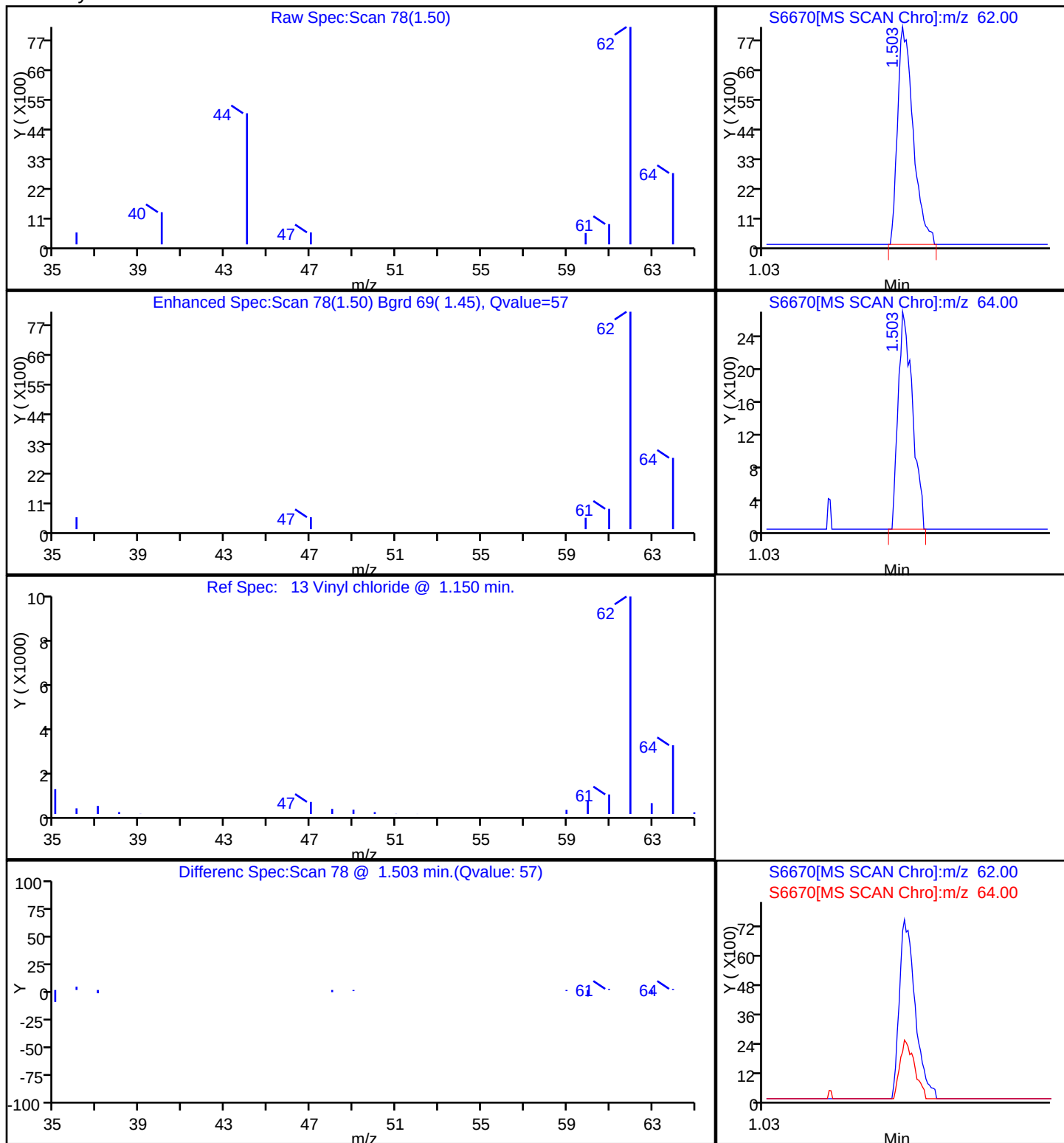
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ7 DL Lab Sample ID: 480-10504-3 DL

Matrix: Water Lab File ID: S6705.D

Analysis Method: 8260B Date Collected: 09/26/2011 16:05

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 19:28

Soil Aliquot Vol: _____ Dilution Factor: 8

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		8.0	6.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		8.0	1.7
79-00-5	1,1,2-Trichloroethane	ND		8.0	1.8
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		8.0	2.5
75-34-3	1,1-Dichloroethane	8.7		8.0	3.0
75-35-4	1,1-Dichloroethene	ND		8.0	2.3
120-82-1	1,2,4-Trichlorobenzene	ND		8.0	3.3
96-12-8	1,2-Dibromo-3-Chloropropane	ND		8.0	3.1
106-93-4	1,2-Dibromoethane	ND		8.0	5.8
95-50-1	1,2-Dichlorobenzene	ND		8.0	6.3
107-06-2	1,2-Dichloroethane	ND		8.0	1.7
78-87-5	1,2-Dichloropropane	ND		8.0	5.8
541-73-1	1,3-Dichlorobenzene	ND		8.0	6.2
106-46-7	1,4-Dichlorobenzene	ND		8.0	6.7
591-78-6	2-Hexanone	ND		40	9.9
78-93-3	2-Butanone (MEK)	ND		80	11
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		40	17
67-64-1	Acetone	ND		80	24
71-43-2	Benzene	ND		8.0	3.3
75-27-4	Bromodichloromethane	ND		8.0	3.1
75-25-2	Bromoform	ND		8.0	2.1
74-83-9	Bromomethane	ND		8.0	5.5
75-15-0	Carbon disulfide	ND		8.0	1.5
56-23-5	Carbon tetrachloride	ND		8.0	2.2
108-90-7	Chlorobenzene	ND		8.0	6.0
124-48-1	Dibromochloromethane	ND		8.0	2.6
75-00-3	Chloroethane	ND		8.0	2.6
67-66-3	Chloroform	ND		8.0	2.7
74-87-3	Chloromethane	ND		8.0	2.8
156-59-2	cis-1,2-Dichloroethene	120		8.0	6.5
10061-01-5	cis-1,3-Dichloropropene	ND		8.0	2.9
110-82-7	Cyclohexane	ND		8.0	1.4
75-71-8	Dichlorodifluoromethane	ND		8.0	5.4
100-41-4	Ethylbenzene	ND		8.0	5.9
98-82-8	Isopropylbenzene	ND		8.0	6.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ7 DL Lab Sample ID: 480-10504-3 DL
 Matrix: Water Lab File ID: S6705.D
 Analysis Method: 8260B Date Collected: 09/26/2011 16:05
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 19:28
 Soil Aliquot Vol: _____ Dilution Factor: 8
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		8.0	4.0
1634-04-4	Methyl tert-butyl ether	ND		8.0	1.3
108-87-2	Methylcyclohexane	ND		8.0	1.3
75-09-2	Methylene Chloride	ND		8.0	3.5
100-42-5	Styrene	ND		8.0	5.8
127-18-4	Tetrachloroethene	360		8.0	2.9
108-88-3	Toluene	ND		8.0	4.1
156-60-5	trans-1,2-Dichloroethene	ND		8.0	7.2
10061-02-6	trans-1,3-Dichloropropene	ND		8.0	3.0
79-01-6	Trichloroethene	280		8.0	3.7
75-69-4	Trichlorofluoromethane	ND		8.0	7.0
75-01-4	Vinyl chloride	ND		8.0	7.2
1330-20-7	Xylenes, Total	ND		16	5.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6705.D
 Lims ID: 480-10504-C-3 Client ID: A2-PZ7
 Inject. Date: 07-Oct-2011 19:28:30 Dil. Factor: 8.0000
 Sample Type: Client
 Sample ID: 480-10504-C-3
 Misc. Info.: 480-0006515-020 =480-0006515-020
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 24
 Lims Batch ID: 34409 Lims Sample ID: 20
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:34:04 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 08-Oct-2011 07:08:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.929	-0.001	94	400375	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	185429	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	191455	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.631	-0.001	96	69414	31.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	426502	29.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.062	-0.001	88	131904	28.5	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.509					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.868					
17 Trichlorofluoromethane	101		2.093					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.641					
26 Carbon disulfide	76		2.726					
27 Methyl acetate	43		2.896					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.164					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	39	8209	1.09	
45 cis-1,2-Dichloroethene	96	3.998	3.992	0.006	65	73946	15.4	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.247					
52 Cyclohexane	56		4.338					
51 1,1,1-Trichloroethane	97		4.344					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	91	156190	35.5	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.299					
68 Dichlorobromomethane	83		5.518					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.455	0.0	92	211631	45.6	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.623					
92 Styrene	104		7.648					
95 Bromoform	173		7.836					
94 Isopropylbenzene	105		7.909					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.937					
113 1,4-Dichlorobenzene	146		9.010					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 08-Oct-2011 07:08:39

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6705.D

Injection Date: 07-Oct-2011 19:28:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34409

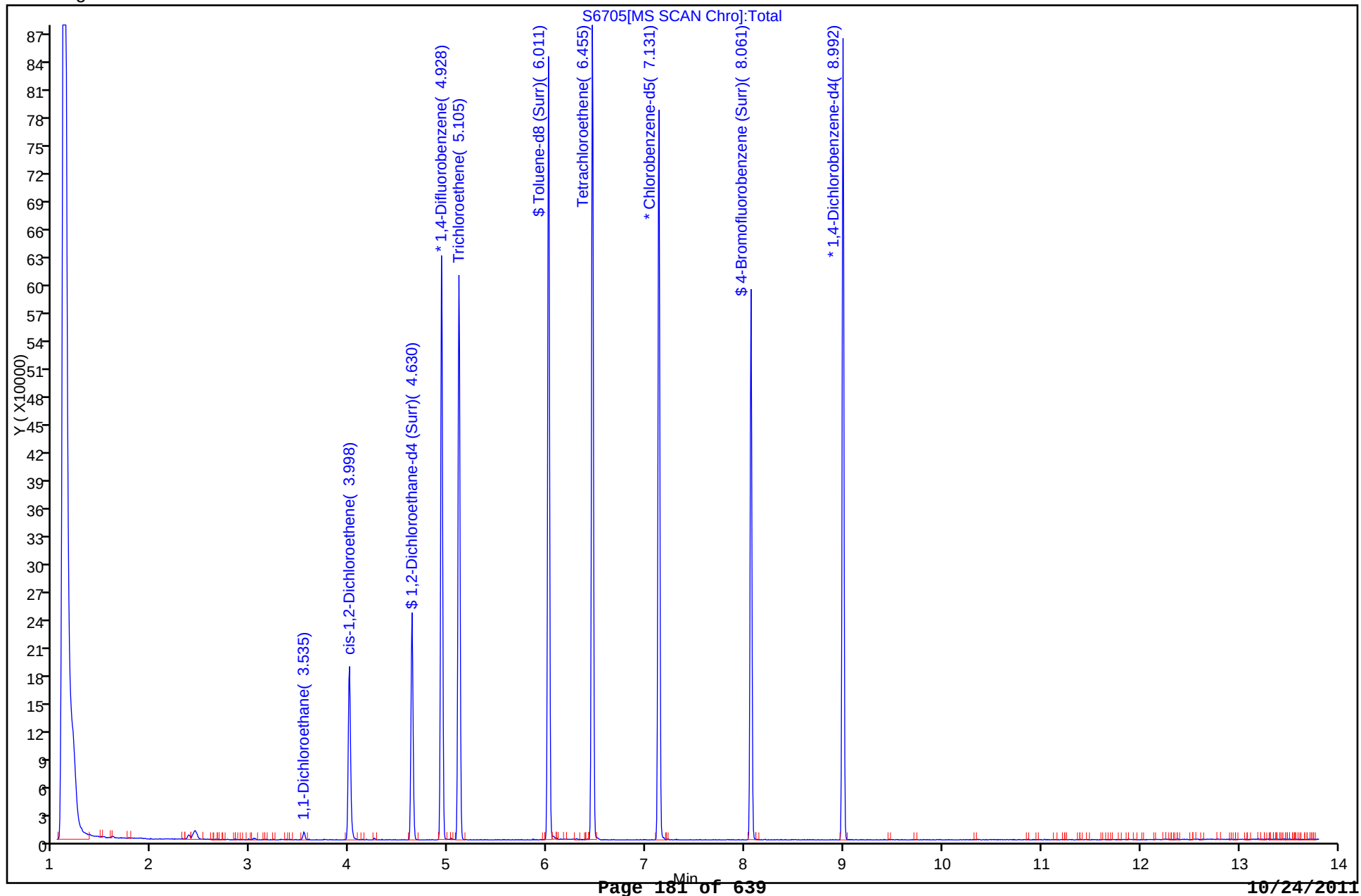
Lims Sample ID: 20

Operator ID: DHC

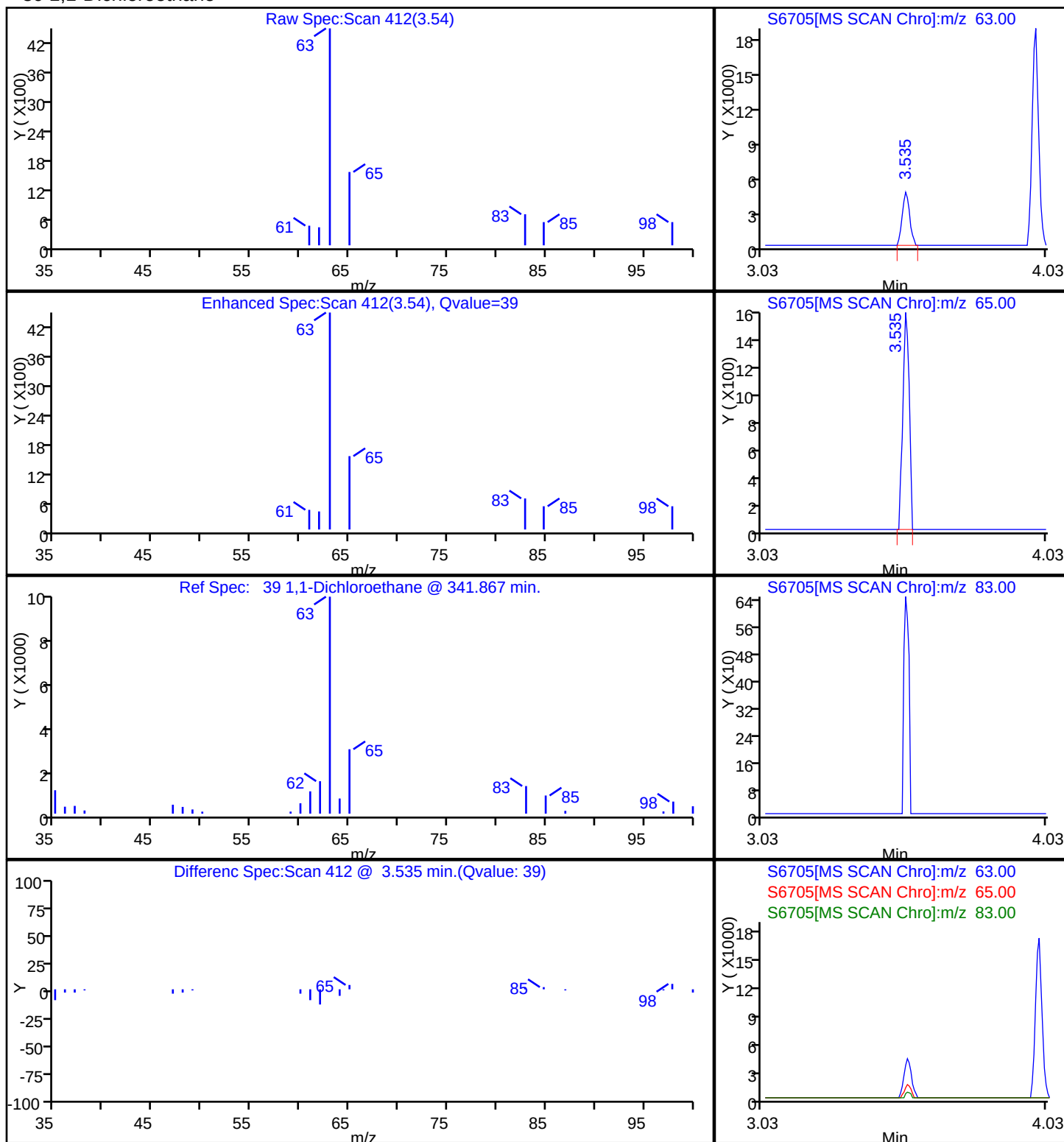
Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



39 1,1-Dichloroethane



Report Date: 08-Oct-2011 07:08:39

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6705.D

Injection Date: 07-Oct-2011 19:28:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34409

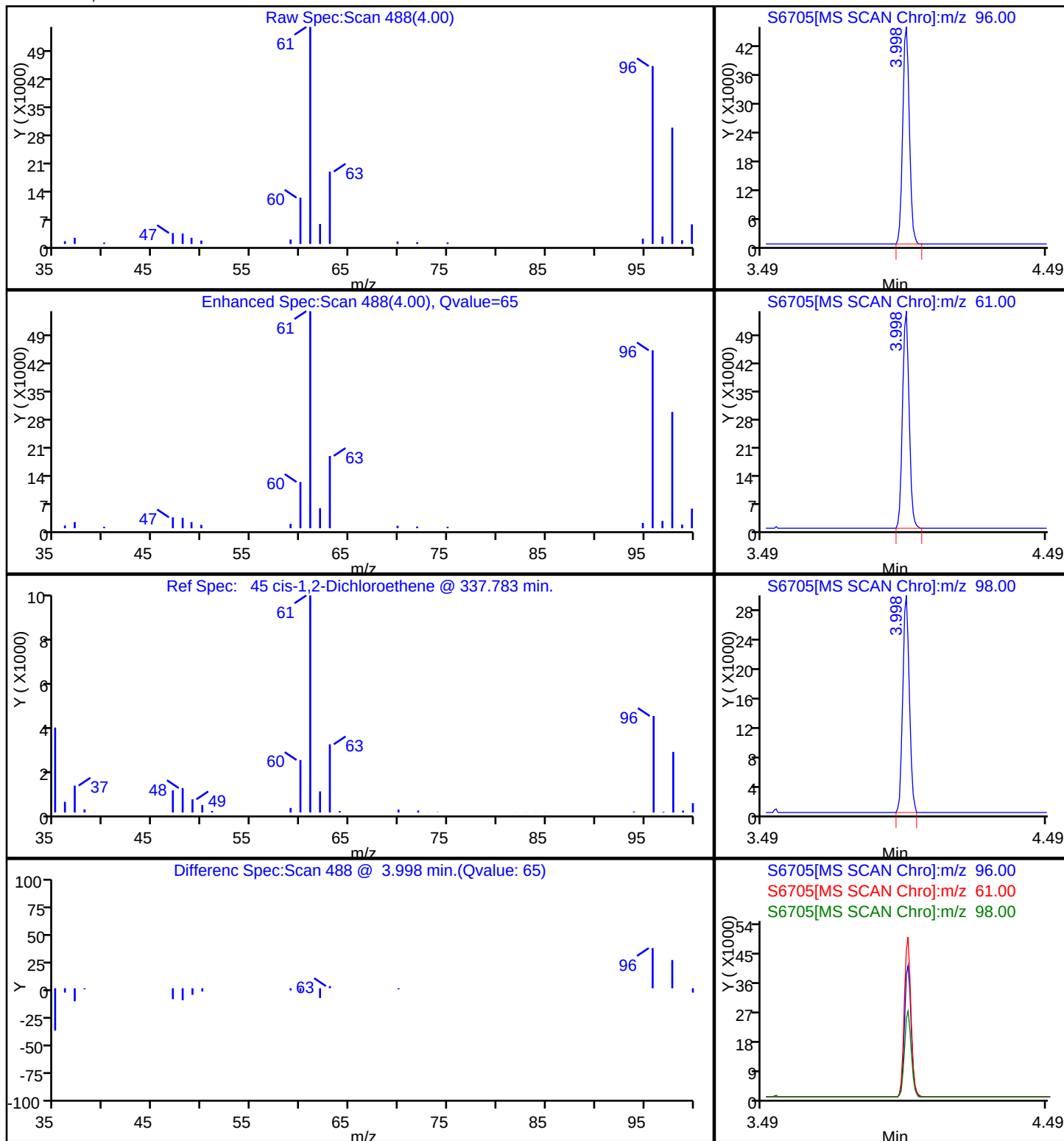
Lims Sample ID: 20

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 08-Oct-2011 07:08:39

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6705.D

Injection Date: 07-Oct-2011 19:28:30

Limit Group: MV - 8260B ICAL

Client ID: A2-PZ7

Instrument ID: HP5973S

Lims Batch ID: 34409

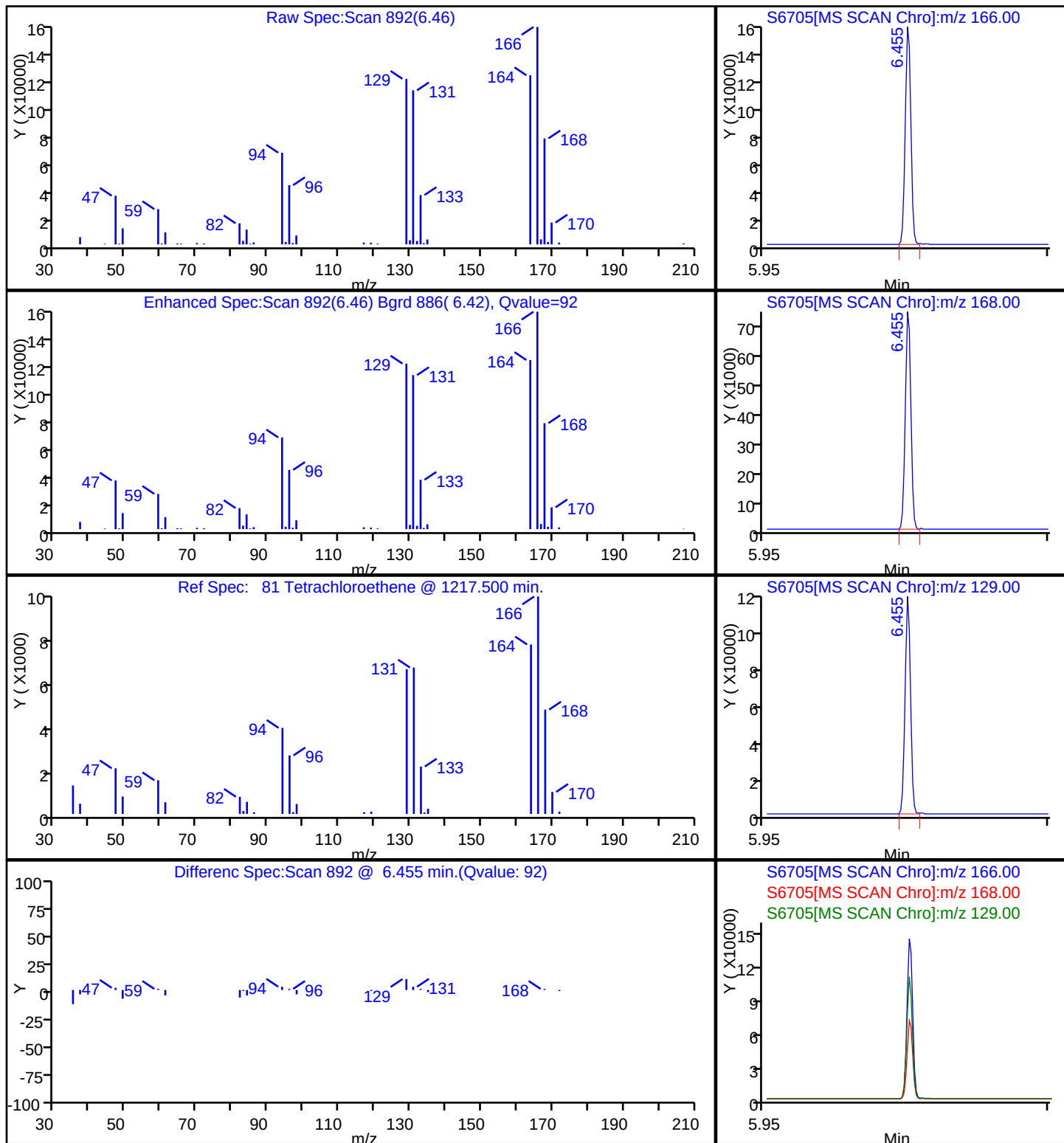
Lims Sample ID: 20

Operator ID: DHC

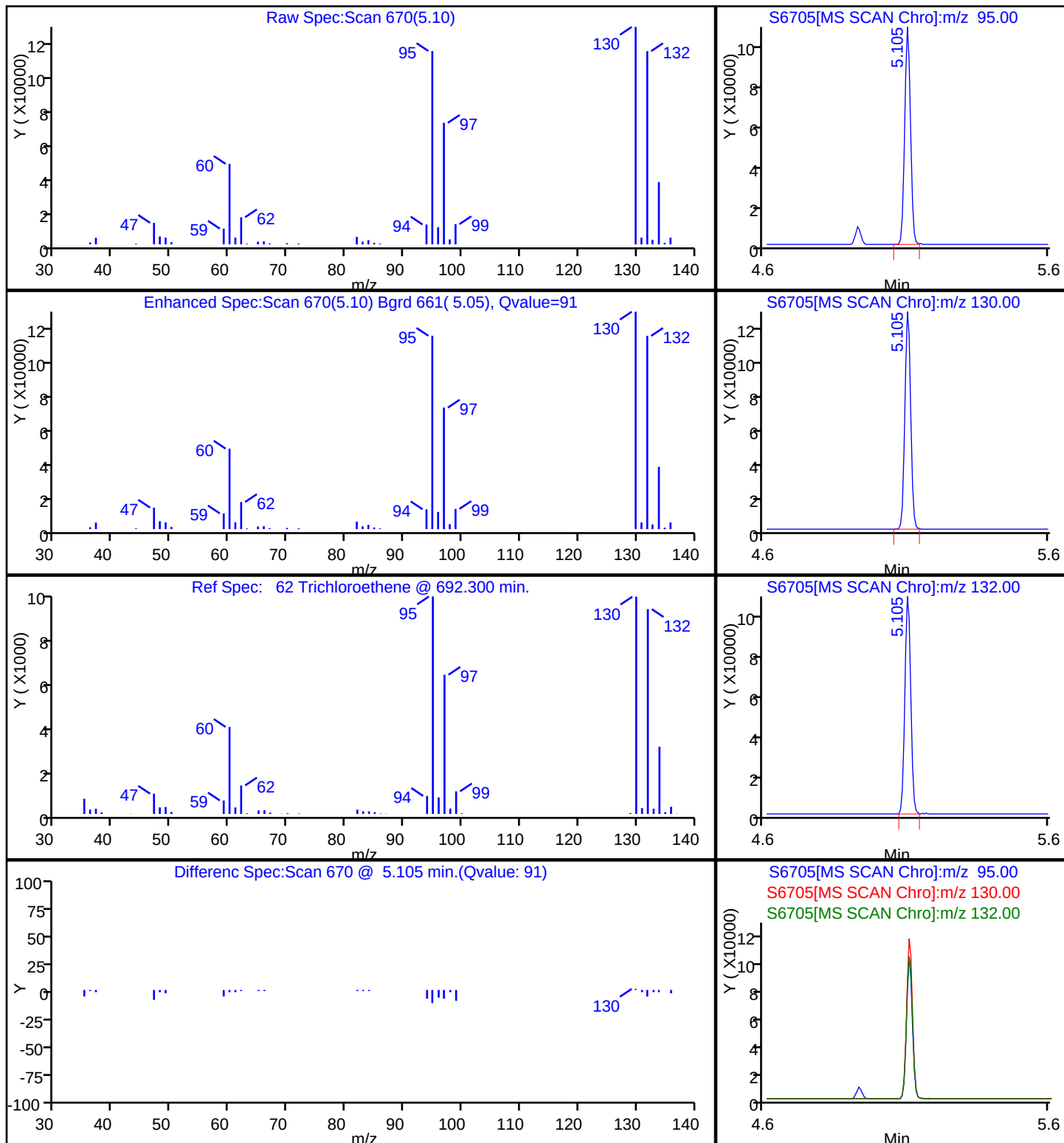
Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-27 Lab Sample ID: 480-10504-4

Matrix: Water Lab File ID: S6671.D

Analysis Method: 8260B Date Collected: 09/27/2011 10:15

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:05

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-27 Lab Sample ID: 480-10504-4
 Matrix: Water Lab File ID: S6671.D
 Analysis Method: 8260B Date Collected: 09/27/2011 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		66-137
2037-26-5	Toluene-d8 (Surr)	115		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6671.D
 Lims ID: 480-10504-B-4 Client ID: PZ-27
 Inject. Date: 06-Oct-2011 17:05:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-B-4
 Misc. Info.: 480-0006479-018 =480-0006479-018
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 18
 Lims Batch ID: 34202 Lims Sample ID: 18
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:36:05 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 09:39:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	418863	25.0	
* 2 Chlorobenzene-d5	82	7.125	7.131	-0.006	84	192476	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	200279	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.0	96	71077	30.2	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	436389	28.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	89	135415	28.2	
10 Dichlorodifluoromethane	85		1.266					
12 Chloromethane	50		1.406					
13 Vinyl chloride	62		1.510					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.881					
17 Trichlorofluoromethane	101		2.094					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.732					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.345					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.300					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 07-Oct-2011 09:39:01

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6671.D

Injection Date: 06-Oct-2011 17:05:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-27

Instrument ID: HP5973S

Lims Batch ID: 34202

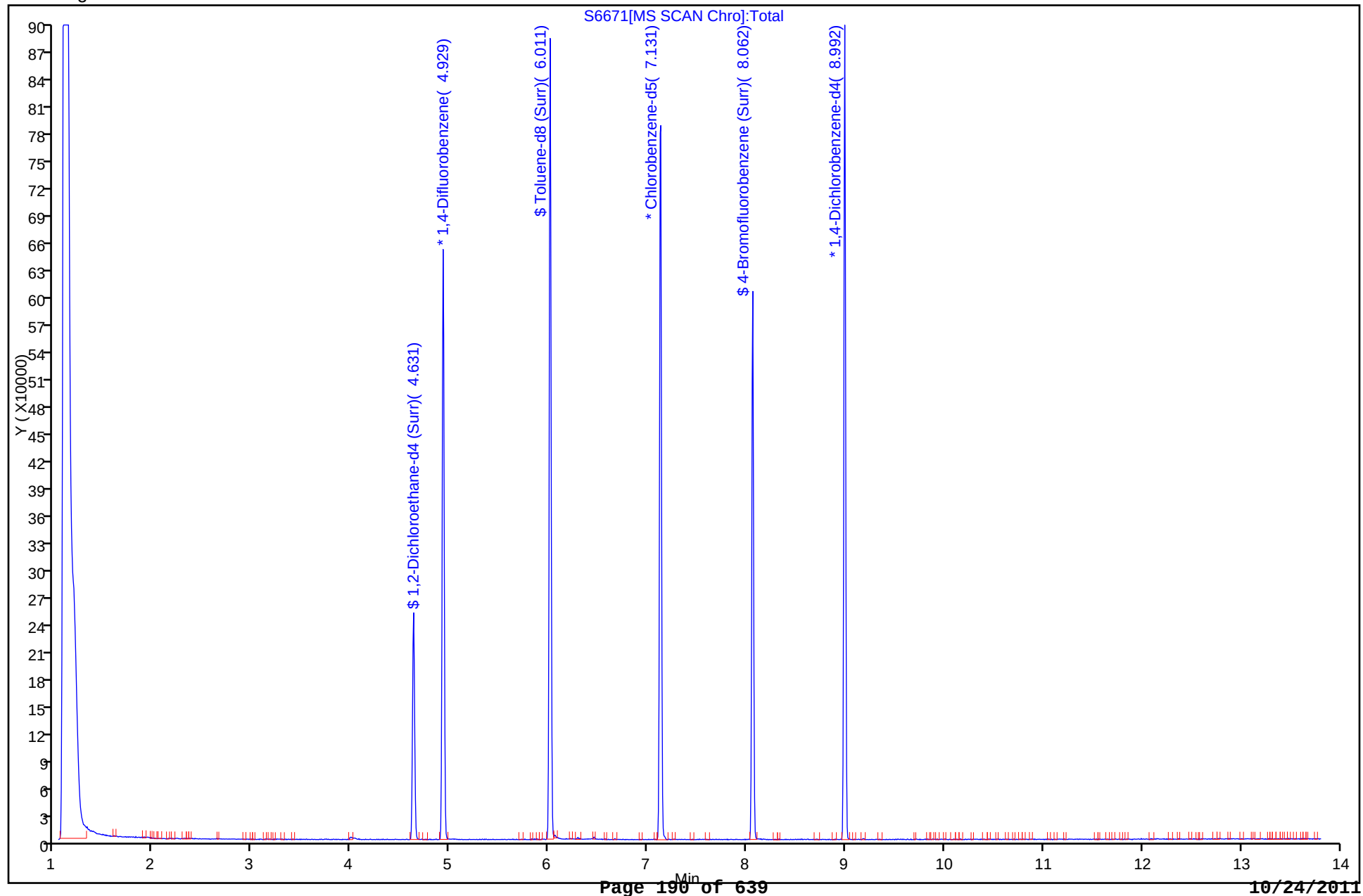
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-4 Lab Sample ID: 480-10504-5

Matrix: Water Lab File ID: S6636.D

Analysis Method: 8260B Date Collected: 09/27/2011 10:55

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 12:54

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.70	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	3.3		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-4 Lab Sample ID: 480-10504-5
 Matrix: Water Lab File ID: S6636.D
 Analysis Method: 8260B Date Collected: 09/27/2011 10:55
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 12:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	1.4		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		66-137
2037-26-5	Toluene-d8 (Surr)	119		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6636.D
 Lims ID: 480-10504-A-5 Client ID: MW-4
 Inject. Date: 05-Oct-2011 12:54:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-5
 Misc. Info.: 480-0006450-010 =480-0006450-010
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 34016 Lims Sample ID: 10
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:04:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	513443	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	234735	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	241172	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	84656	29.3	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	549407	29.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	163581	27.9	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.504	1.504	0.0	25	7895	1.42	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.542	3.535	0.007	12	6719	0.6972	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	54	19980	3.25	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:04:37

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6636.D

Injection Date: 05-Oct-2011 12:54:30

Limit Group: MV - 8260B ICAL

Client ID: MW-4

Instrument ID: HP5973S

Lims Batch ID: 34016

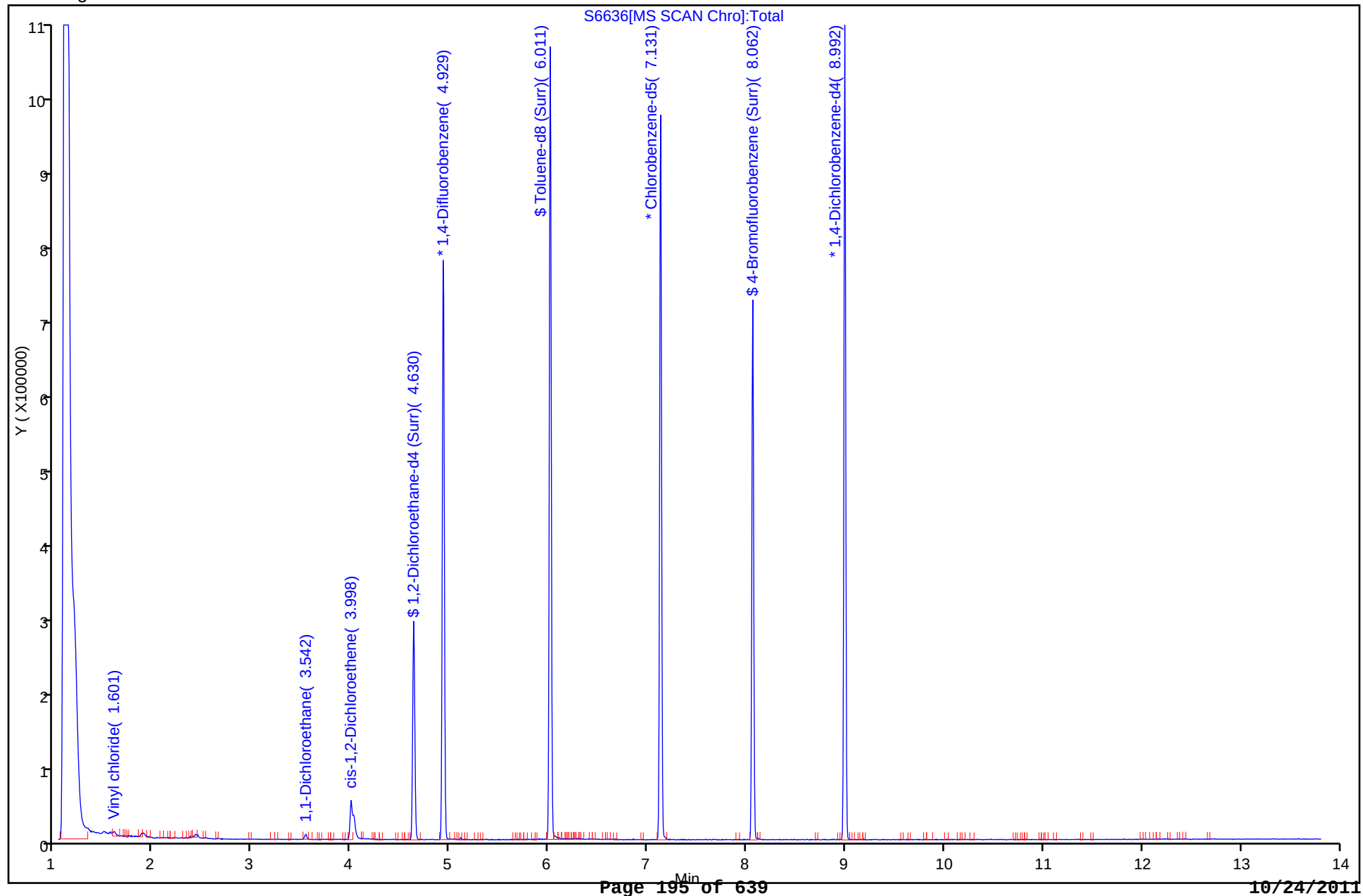
Lims Sample ID: 10

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 09:04:37

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6636.D

Injection Date: 05-Oct-2011 12:54:30

Limit Group: MV - 8260B ICAL

Client ID: MW-4

Instrument ID: HP5973S

Lims Batch ID: 34016

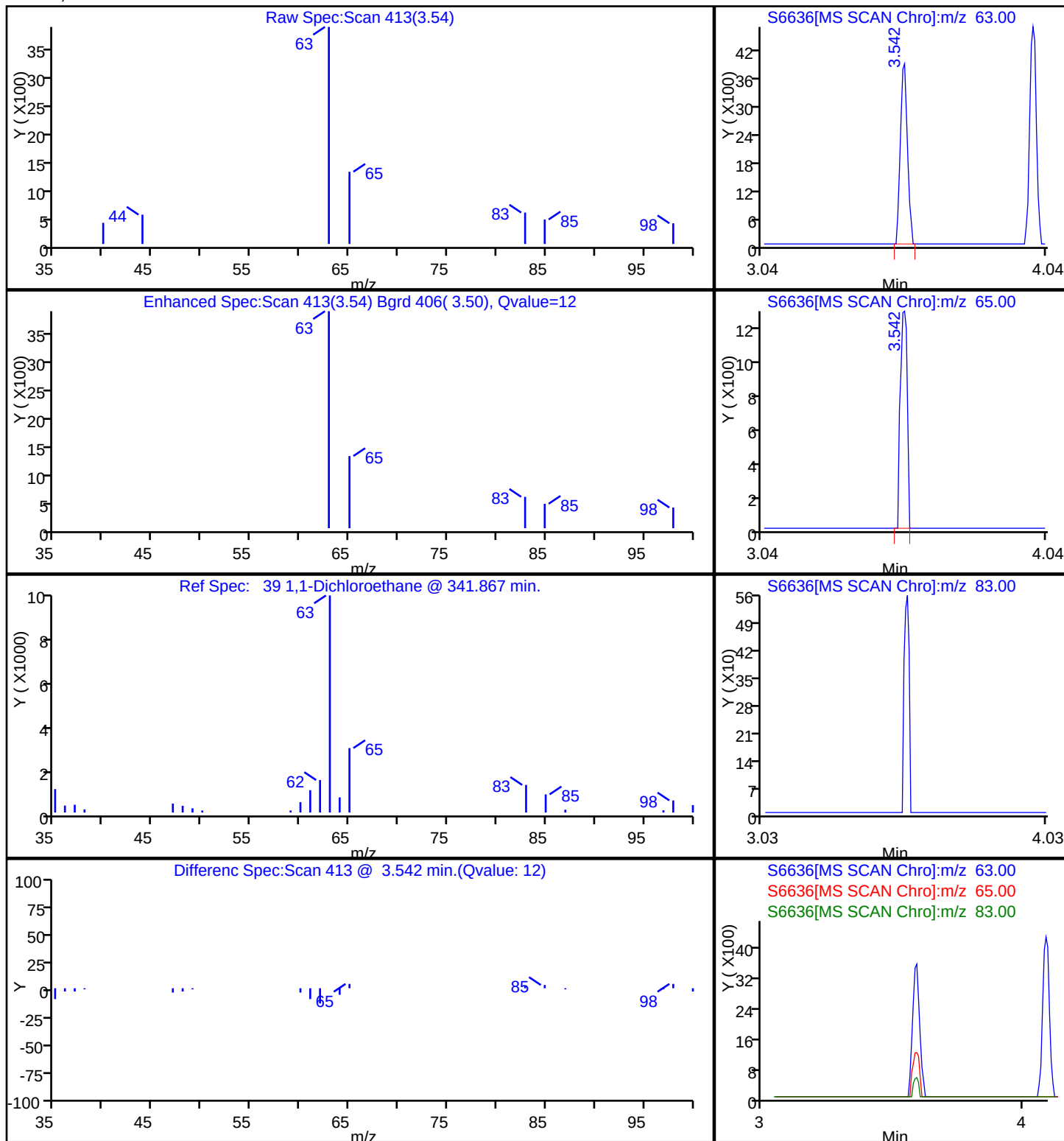
Lims Sample ID: 10

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 09:04:37

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6636.D

Injection Date: 05-Oct-2011 12:54:30

Limit Group: MV - 8260B ICAL

Client ID: MW-4

Instrument ID: HP5973S

Lims Batch ID: 34016

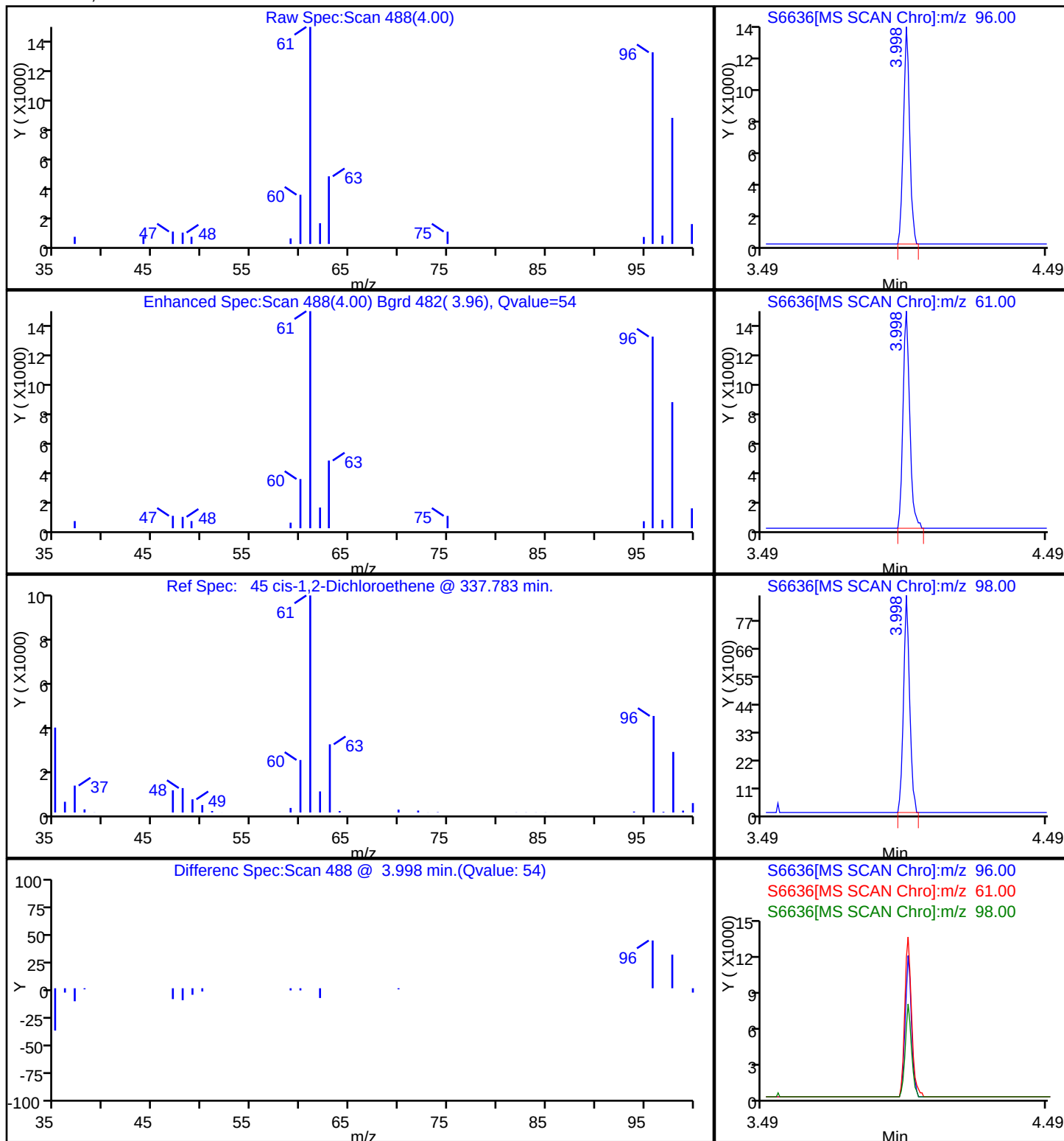
Lims Sample ID: 10

Operator ID: DHC

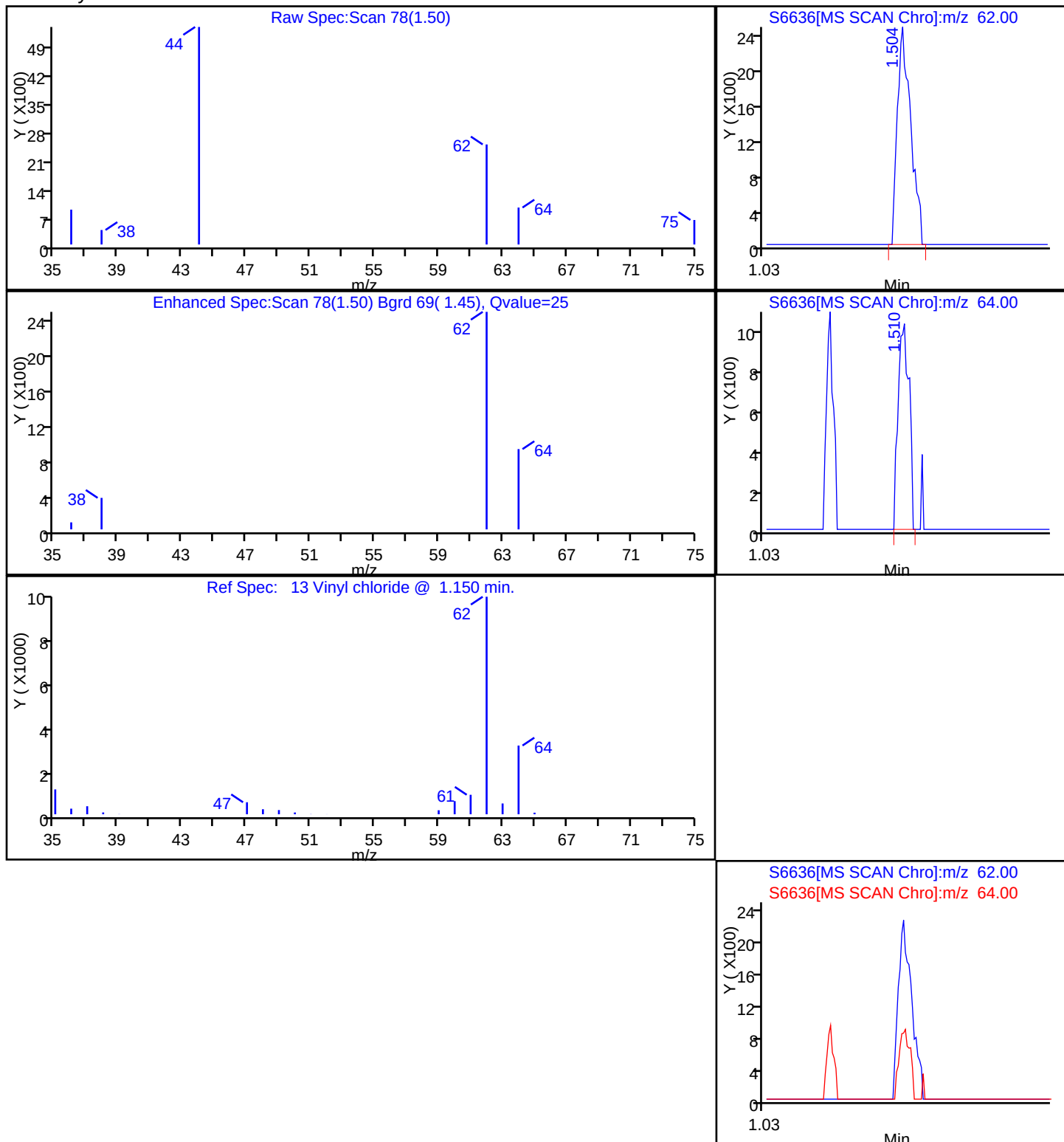
Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-13S Lab Sample ID: 480-10504-6

Matrix: Water Lab File ID: S6637.D

Analysis Method: 8260B Date Collected: 09/27/2011 11:35

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 13:17

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	2.4		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-13S Lab Sample ID: 480-10504-6
 Matrix: Water Lab File ID: S6637.D
 Analysis Method: 8260B Date Collected: 09/27/2011 11:35
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 13:17
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	112		71-126
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6637.D
 Lims ID: 480-10504-A-6 Client ID: MW-13S
 Inject. Date: 05-Oct-2011 13:17:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-6
 Misc. Info.: 480-0006450-011 =480-0006450-011
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 34016 Lims Sample ID: 11
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:47:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	500158	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	232466	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	232536	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.0	96	81733	29.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	513696	27.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	158644	27.3	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	53	22478	2.39	
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97	4.345	4.345	0.0	12	3383	0.5524	
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:47:27

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6637.D

Injection Date: 05-Oct-2011 13:17:30

Limit Group: MV - 8260B ICAL

Client ID: MW-13S

Instrument ID: HP5973S

Lims Batch ID: 34016

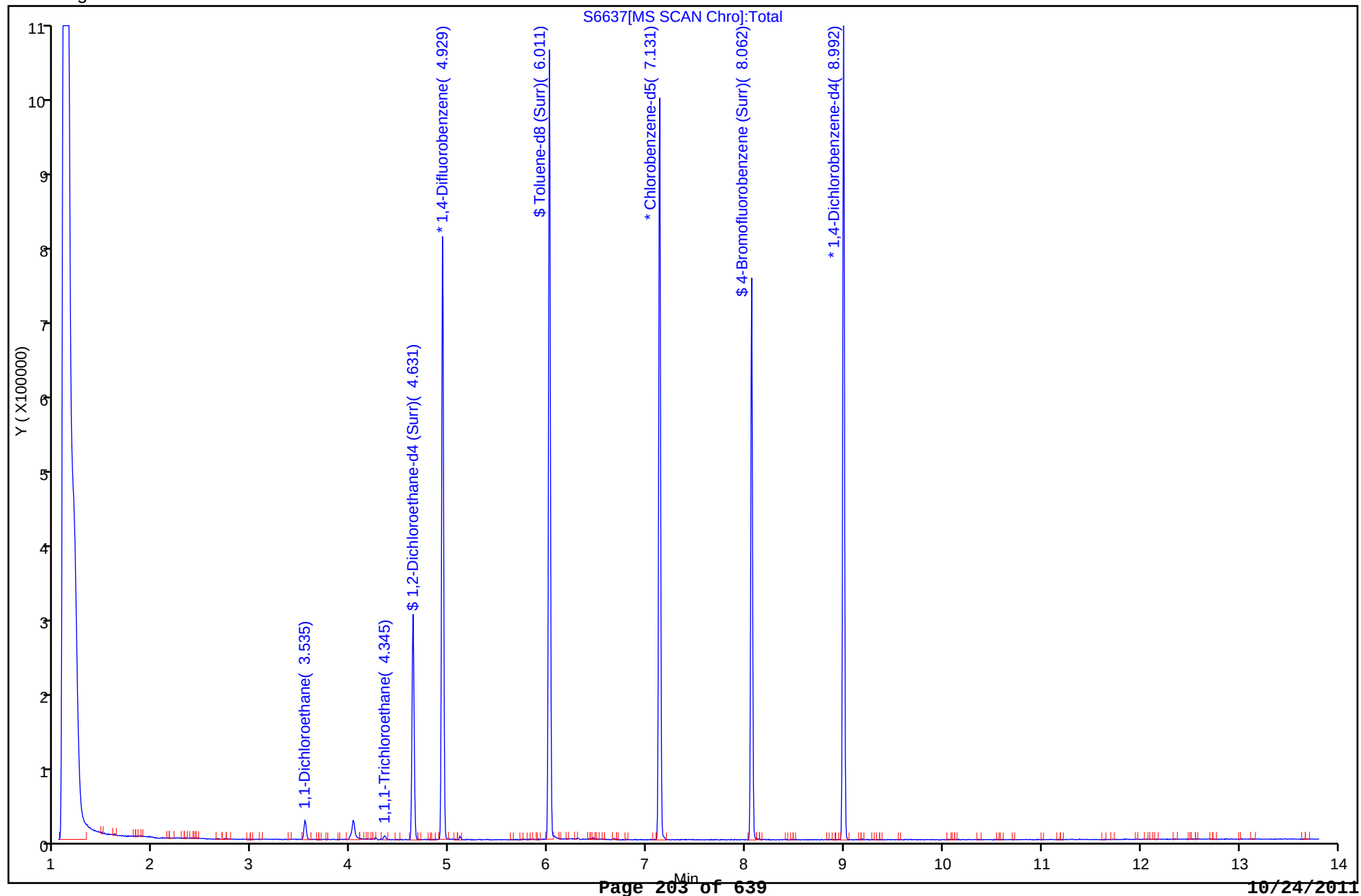
Lims Sample ID: 11

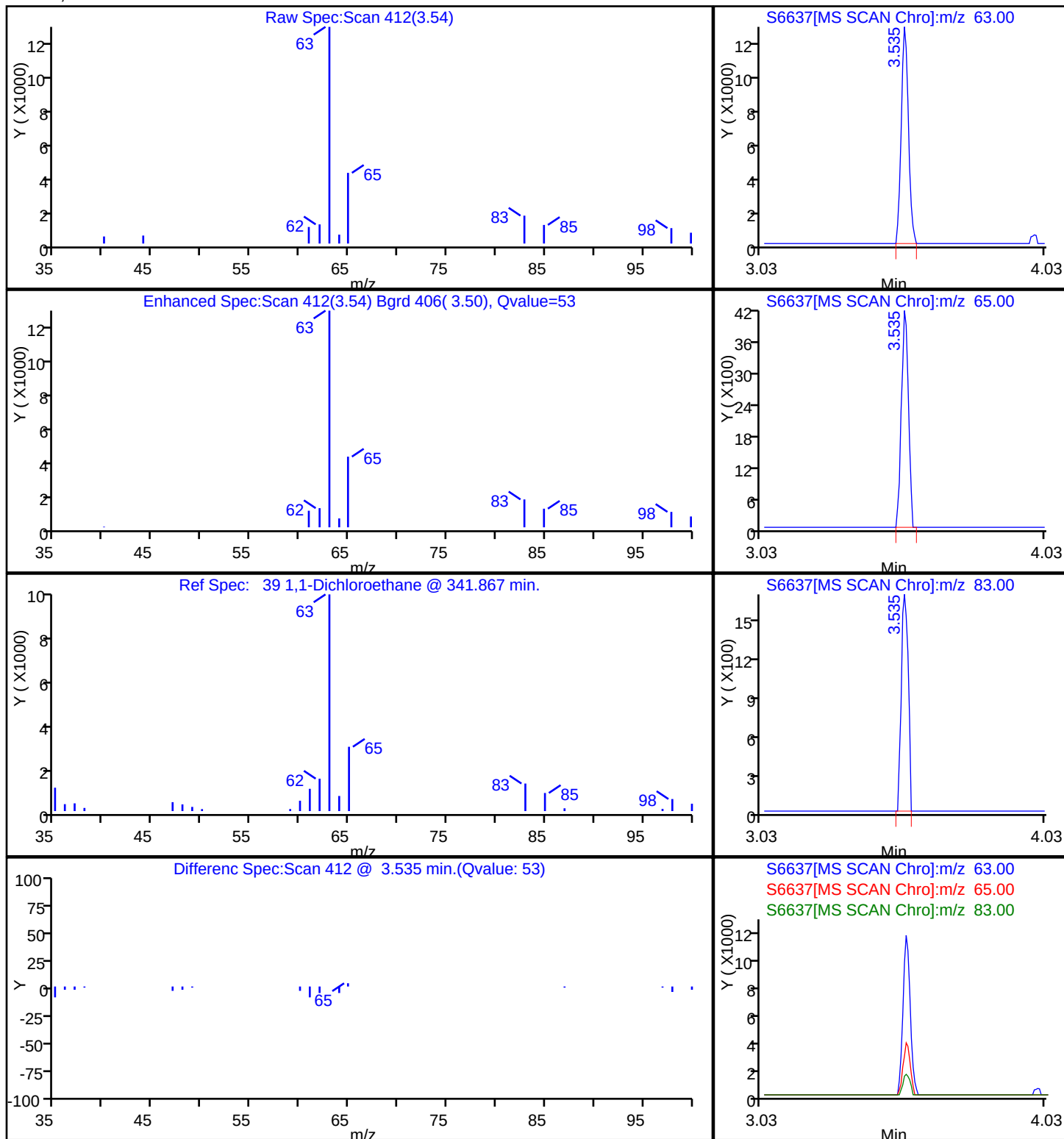
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:





FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A1-PZ2 Lab Sample ID: 480-10504-7

Matrix: Water Lab File ID: S6638.D

Analysis Method: 8260B Date Collected: 09/27/2011 12:05

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 13:39

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	2.1		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	6.6	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	99		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A1-PZ2 Lab Sample ID: 480-10504-7
 Matrix: Water Lab File ID: S6638.D
 Analysis Method: 8260B Date Collected: 09/27/2011 12:05
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 13:39
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	1.7		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	27		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D
 Lims ID: 480-10504-D-7 Client ID: A1-PZ2
 Inject. Date: 05-Oct-2011 13:39:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-7
 Misc. Info.: 480-0006450-012 =480-0006450-012
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 12
 Lims Batch ID: 34016 Lims Sample ID: 12
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:47:50

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.0	94	494134	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	227380	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	235565	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	82538	29.7	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	521661	29.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	159735	28.1	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.510	1.504	0.006	81	144858	27.1	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.647	2.647	0.0	81	12522	6.57	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.541	3.535	0.006	52	19489	2.10	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	67	586242	98.9	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	76	9186	1.69	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:47:50

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D

Injection Date: 05-Oct-2011 13:39:30

Limit Group: MV - 8260B ICAL

Client ID: A1-PZ2

Instrument ID: HP5973S

Lims Batch ID: 34016

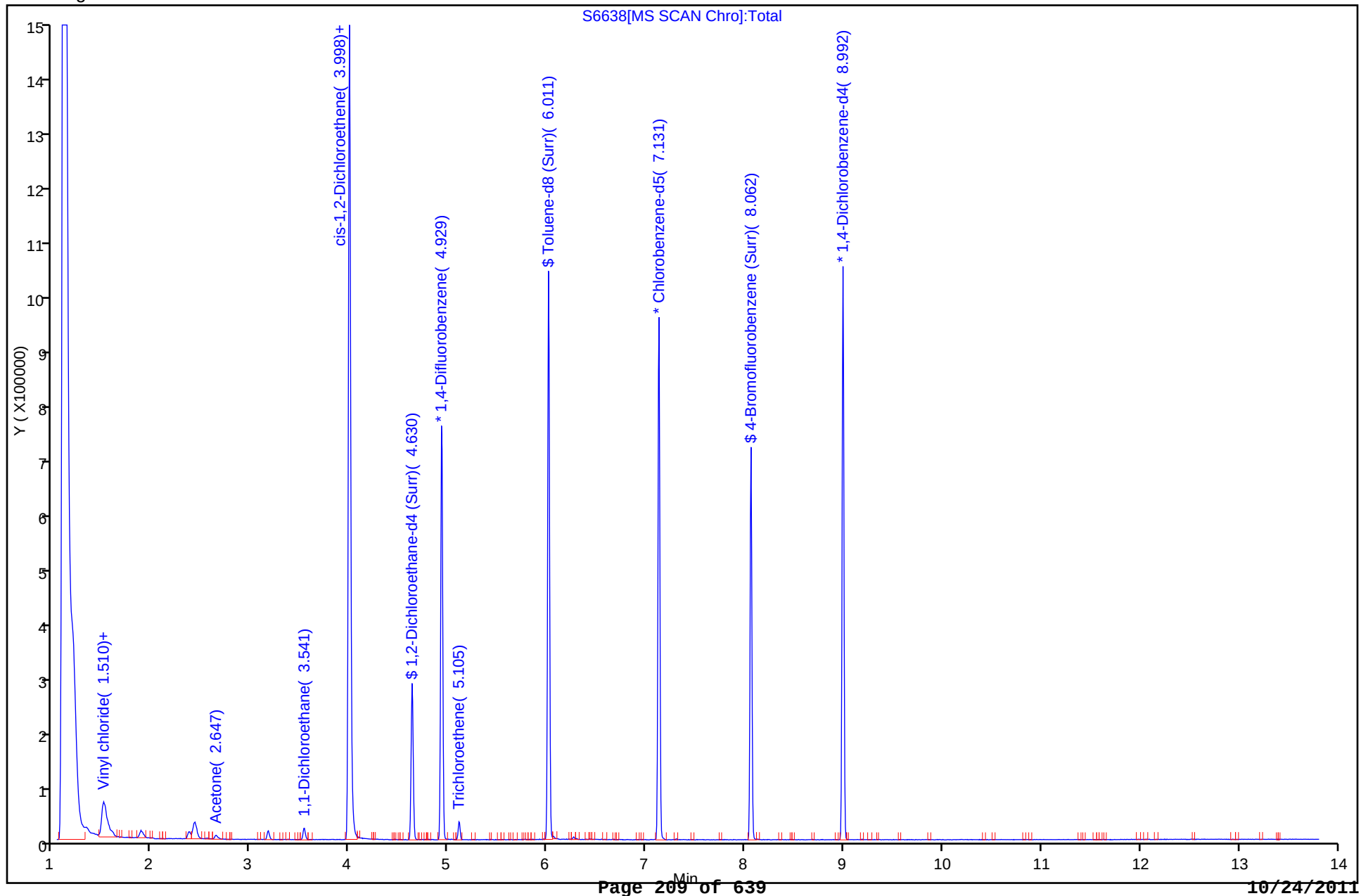
Lims Sample ID: 12

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:47:50

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D

Injection Date: 05-Oct-2011 13:39:30

Limit Group: MV - 8260B ICAL

Client ID: A1-PZ2

Instrument ID: HP5973S

Lims Batch ID: 34016

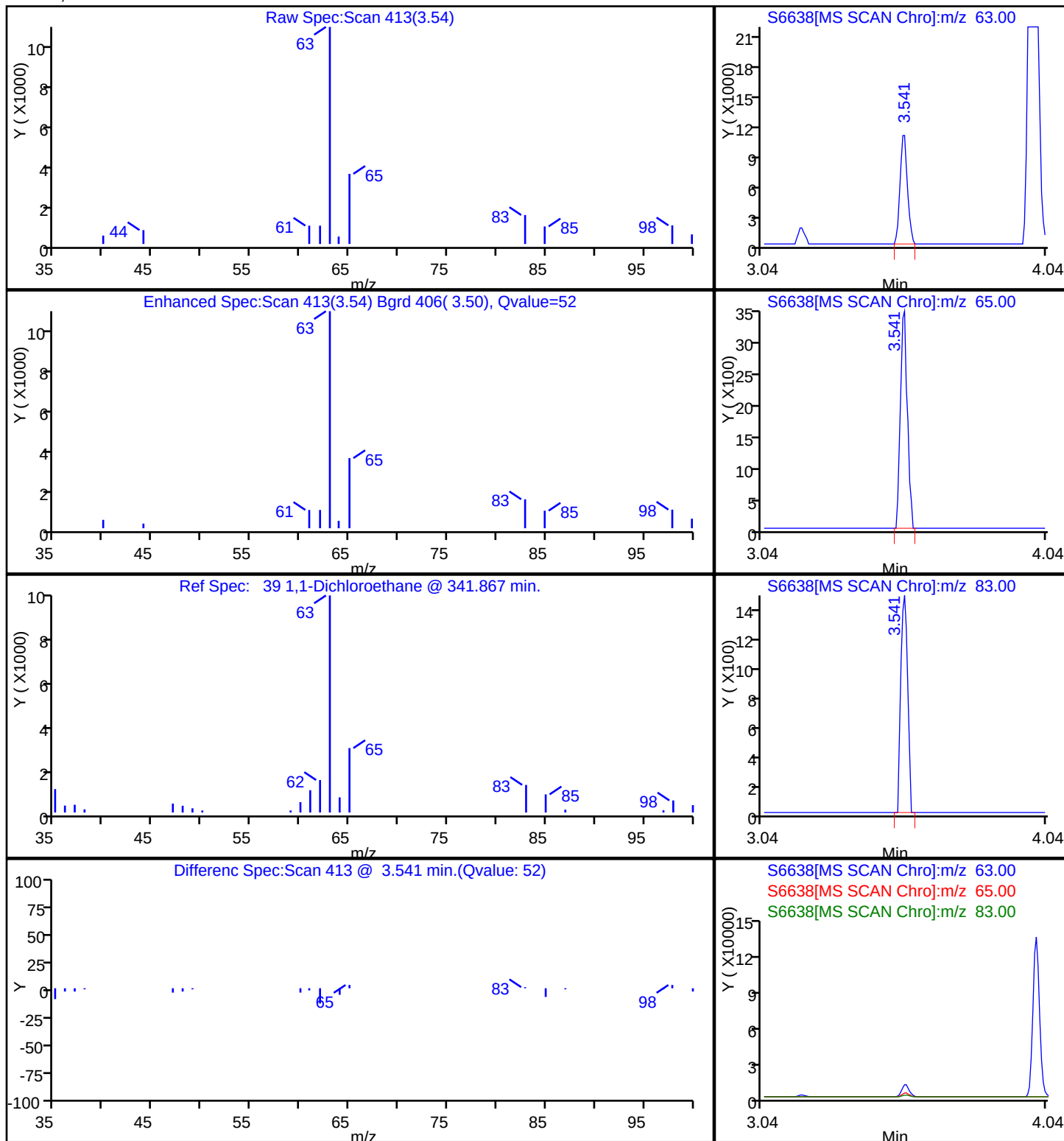
Lims Sample ID: 12

Operator ID: DHC

Column Type: ZB-624

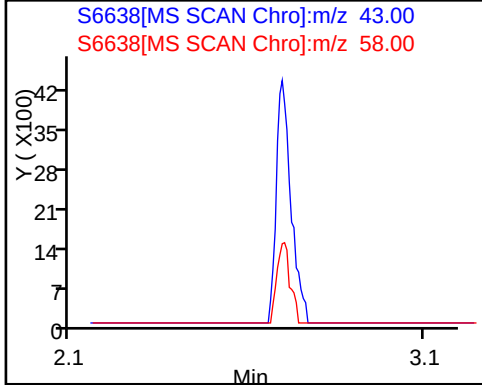
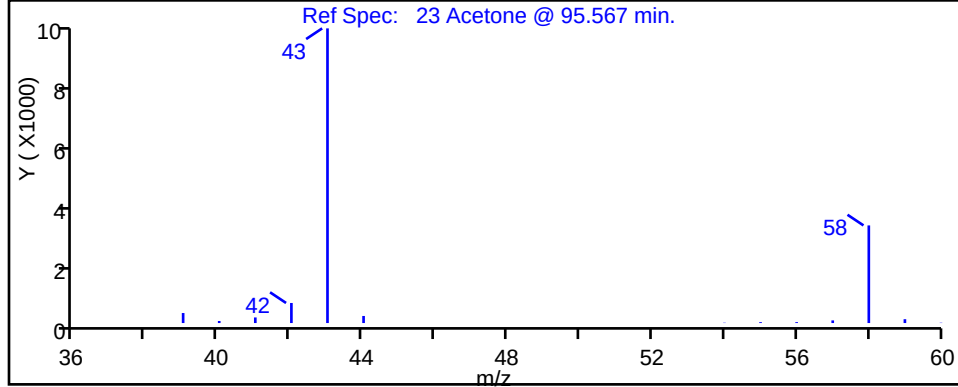
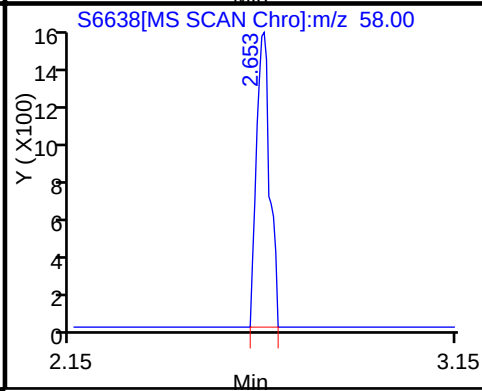
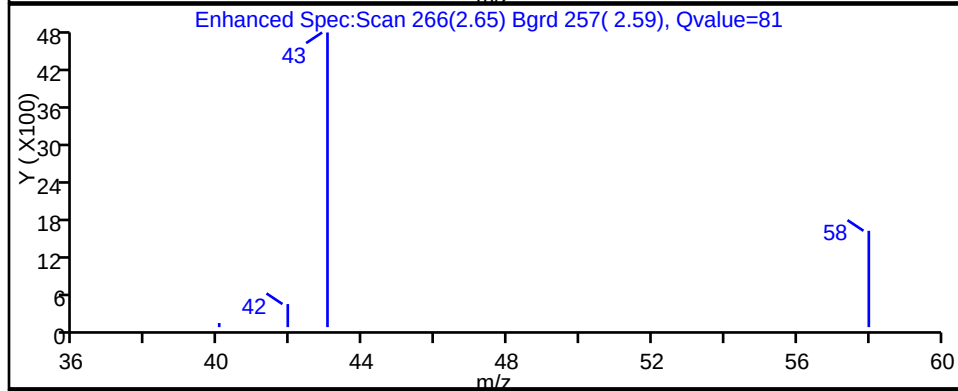
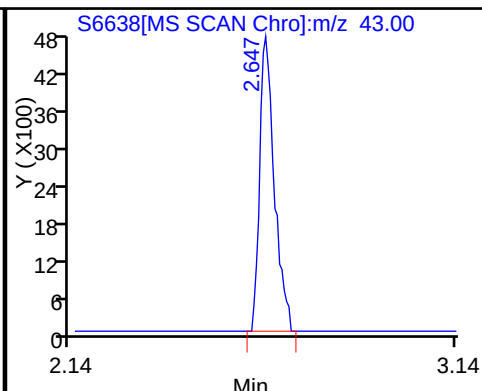
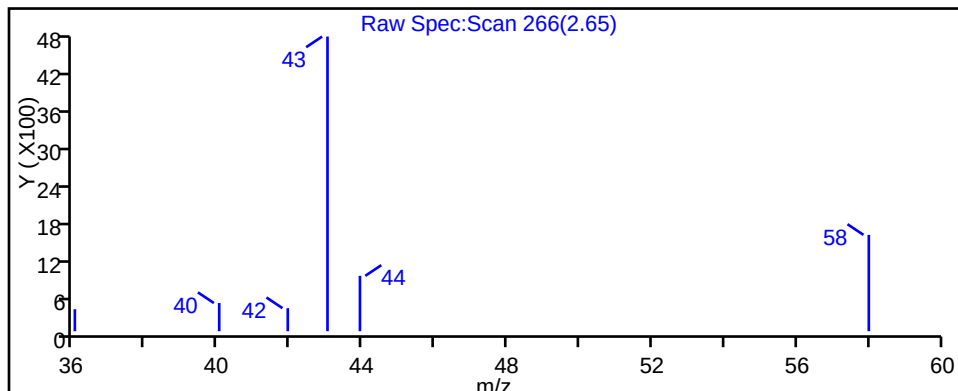
Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 07:47:50
Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D
Injection Date: 05-Oct-2011 13:39:30
Client ID: A1-PZ2
Lims Batch ID: 34016
Operator ID: DHC
Column Type: ZB-624
23 Acetone

Chrom Revision: 2.0 01-Sep-2011 14:10:00
Limit Group: MV - 8260B ICAL
Instrument ID: HP5973S
Lims Sample ID: 12
Column Dia: 0.25 mm



Report Date: 06-Oct-2011 07:47:50

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D

Injection Date: 05-Oct-2011 13:39:30

Limit Group: MV - 8260B ICAL

Client ID: A1-PZ2

Instrument ID: HP5973S

Lims Batch ID: 34016

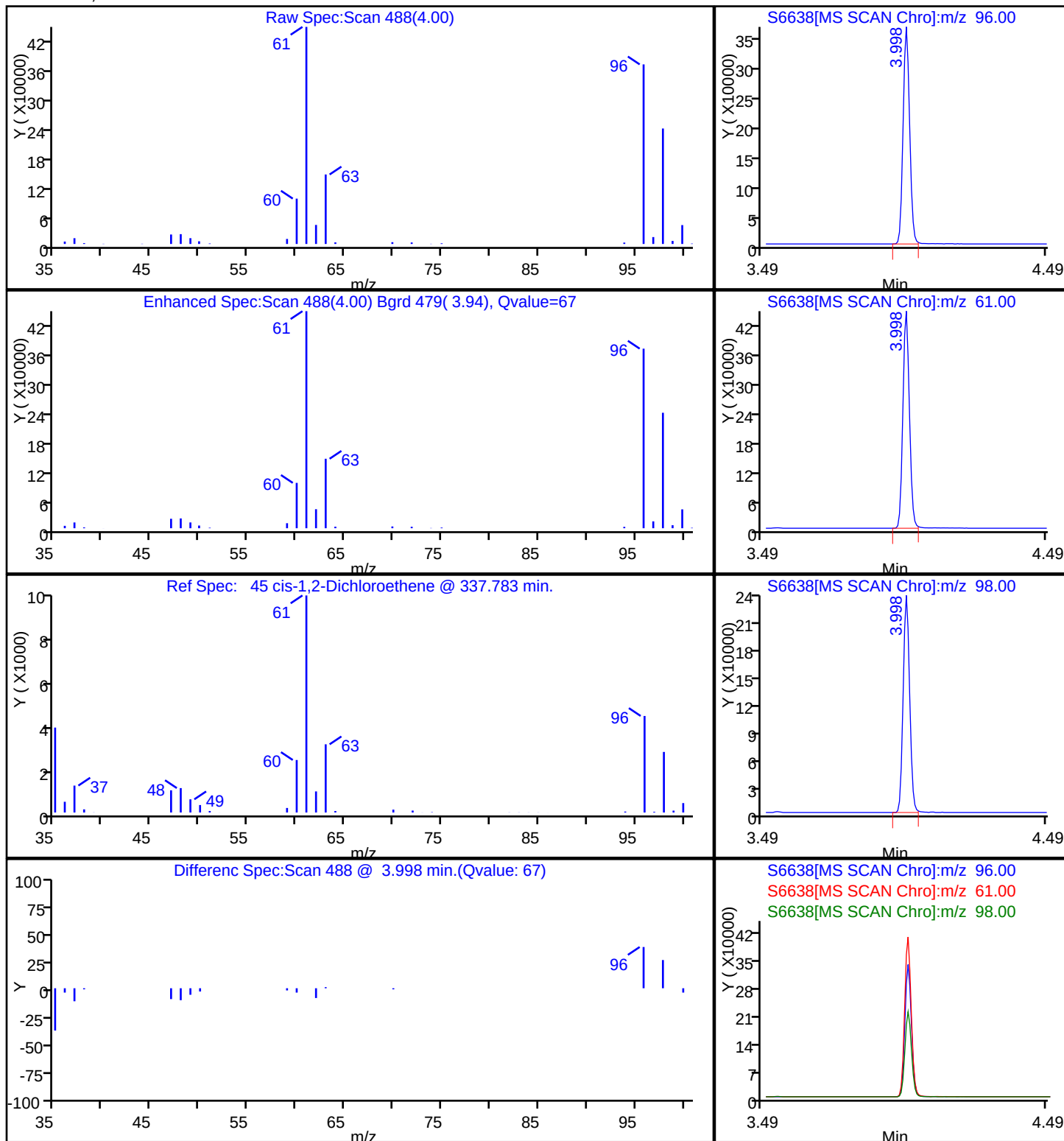
Lims Sample ID: 12

Operator ID: DHC

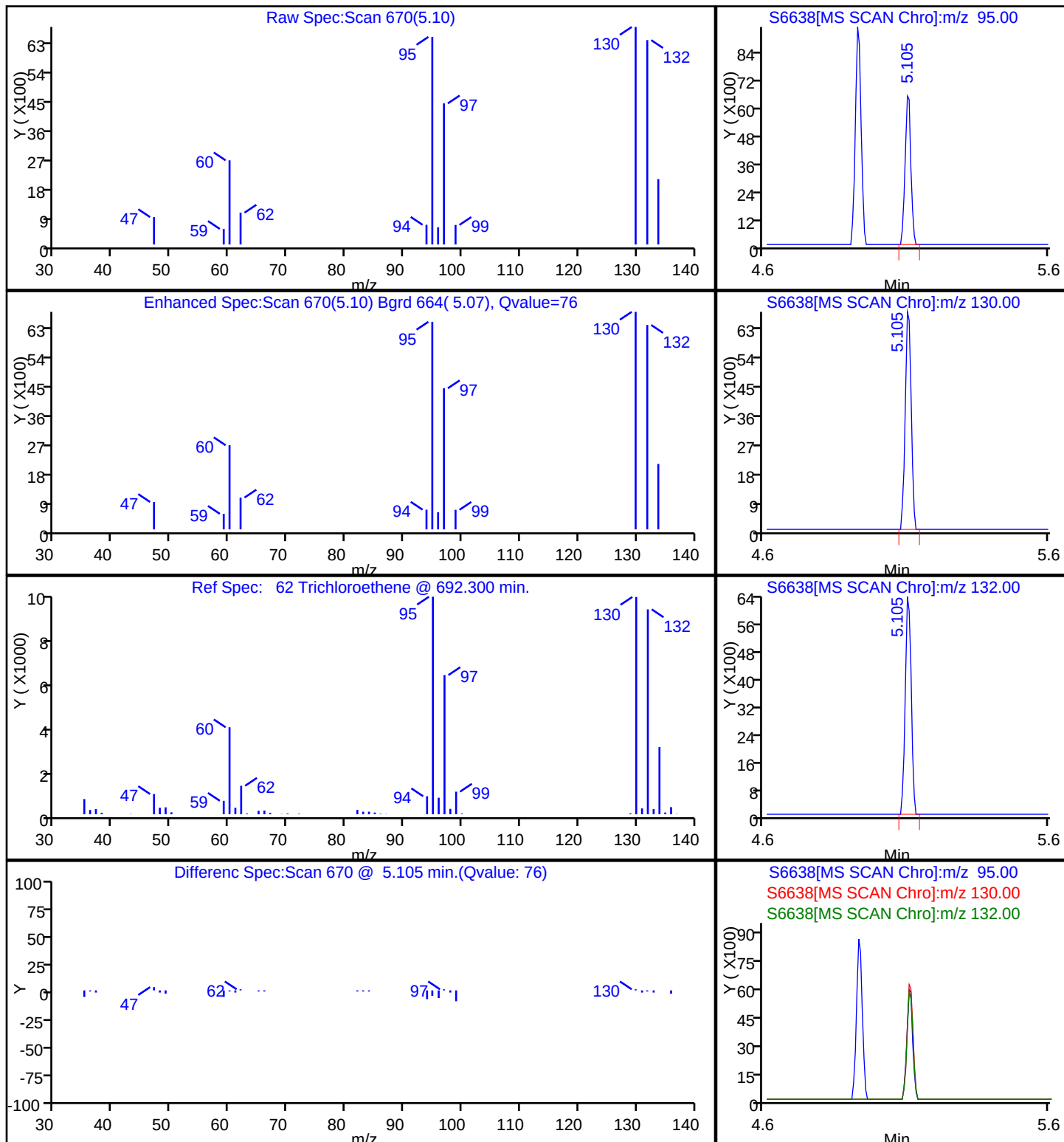
Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



62 Trichloroethene



Report Date: 06-Oct-2011 07:47:50

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6638.D

Injection Date: 05-Oct-2011 13:39:30

Limit Group: MV - 8260B ICAL

Client ID: A1-PZ2

Instrument ID: HP5973S

Lims Batch ID: 34016

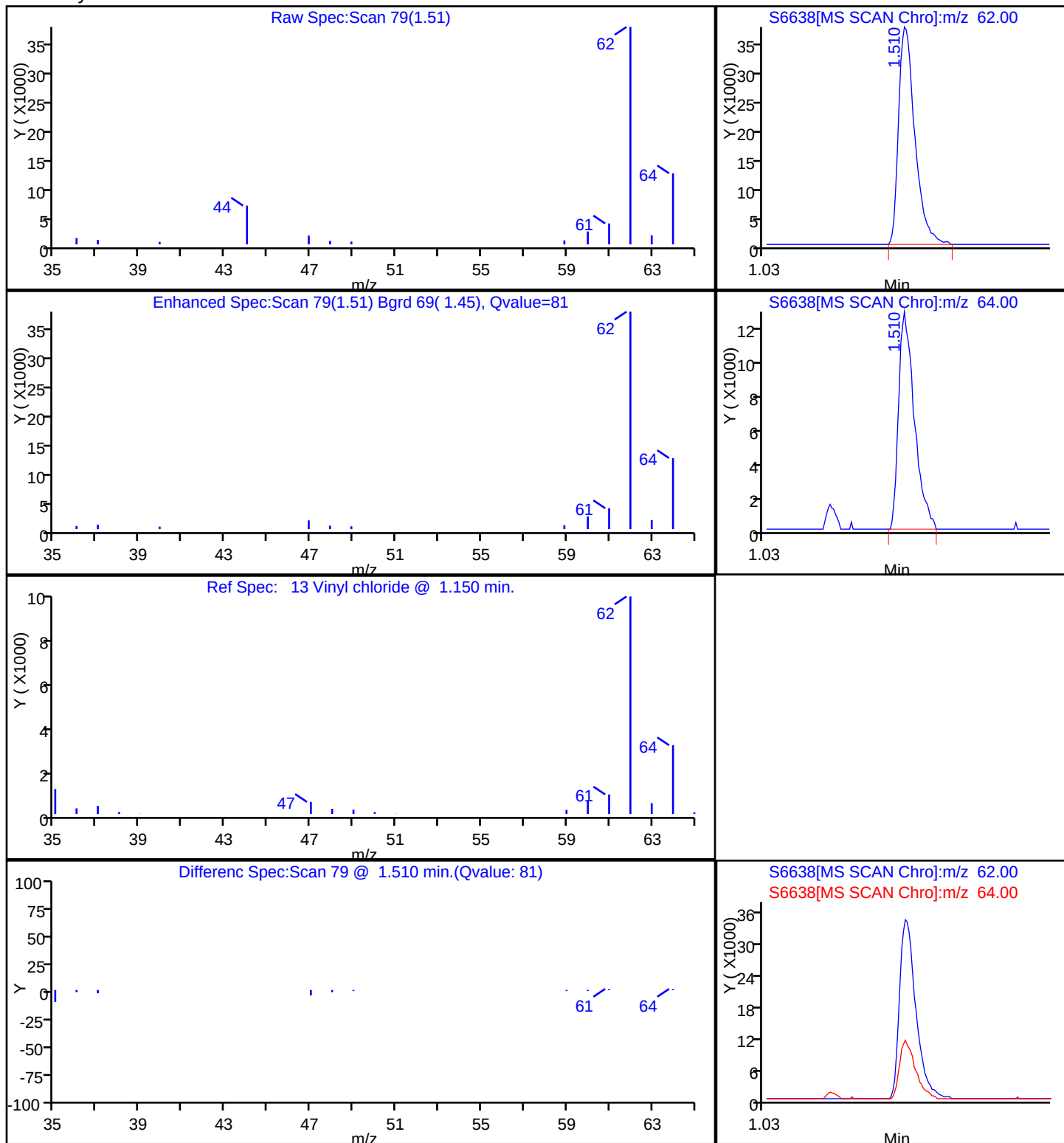
Lims Sample ID: 12

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-18 Lab Sample ID: 480-10504-8

Matrix: Water Lab File ID: S6639.D

Analysis Method: 8260B Date Collected: 09/27/2011 12:35

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:01

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	0.85	J	1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-18 Lab Sample ID: 480-10504-8
 Matrix: Water Lab File ID: S6639.D
 Analysis Method: 8260B Date Collected: 09/27/2011 12:35
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:01
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6639.D
 Lims ID: 480-10504-A-8 Client ID: PZ-18
 Inject. Date: 05-Oct-2011 14:01:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-8
 Misc. Info.: 480-0006450-013 =480-0006450-013
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 34016 Lims Sample ID: 13
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:48:03

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	491452	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	223272	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	232125	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	80223	29.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	510554	28.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	154344	27.7	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.653	2.647	0.006	70	4464	2.35	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	23	5003	0.8489	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:48:03

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6639.D

Injection Date: 05-Oct-2011 14:01:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-18

Instrument ID: HP5973S

Lims Batch ID: 34016

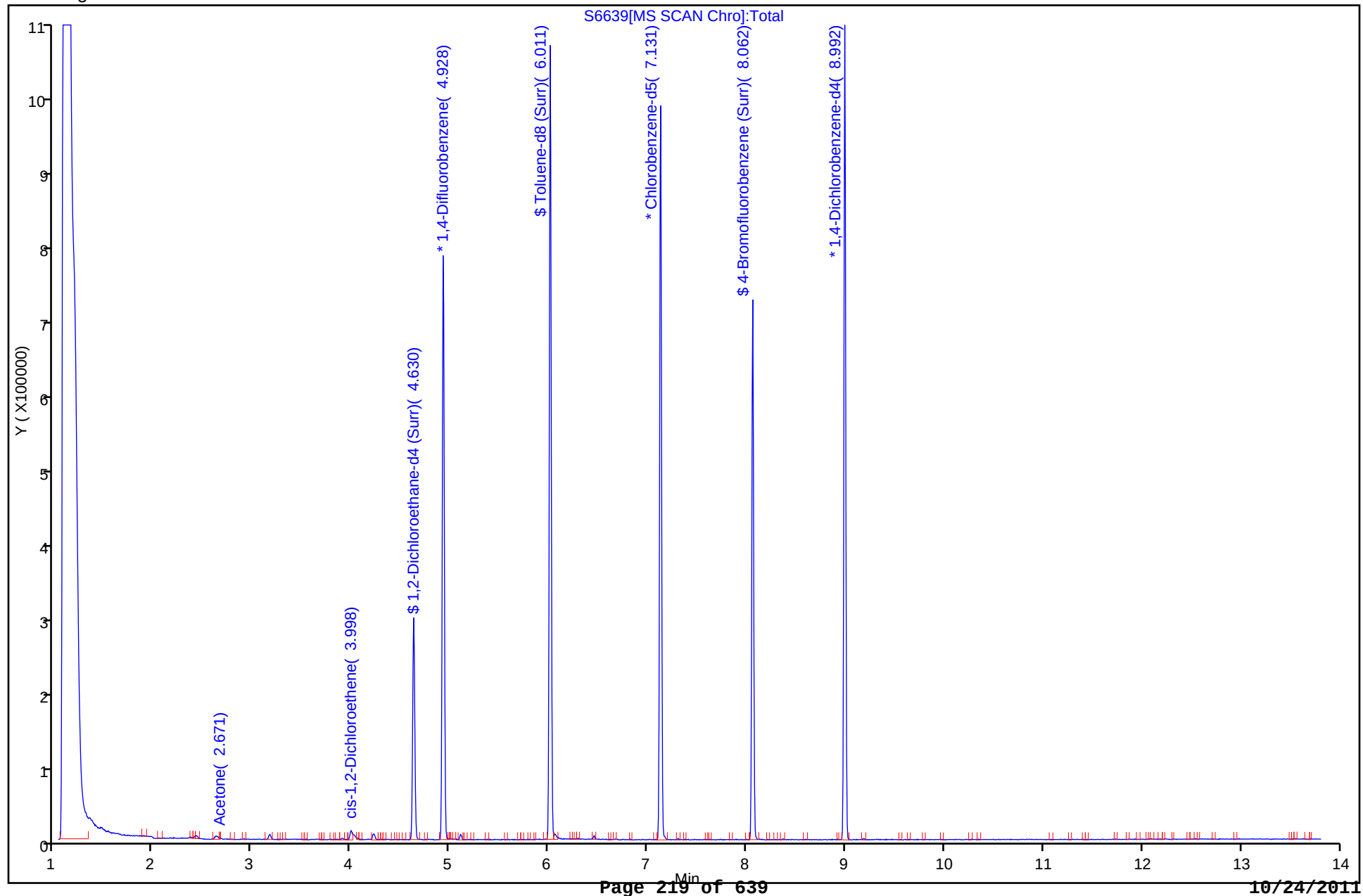
Lims Sample ID: 13

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:48:03

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6639.D

Injection Date: 05-Oct-2011 14:01:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-18

Instrument ID: HP5973S

Lims Batch ID: 34016

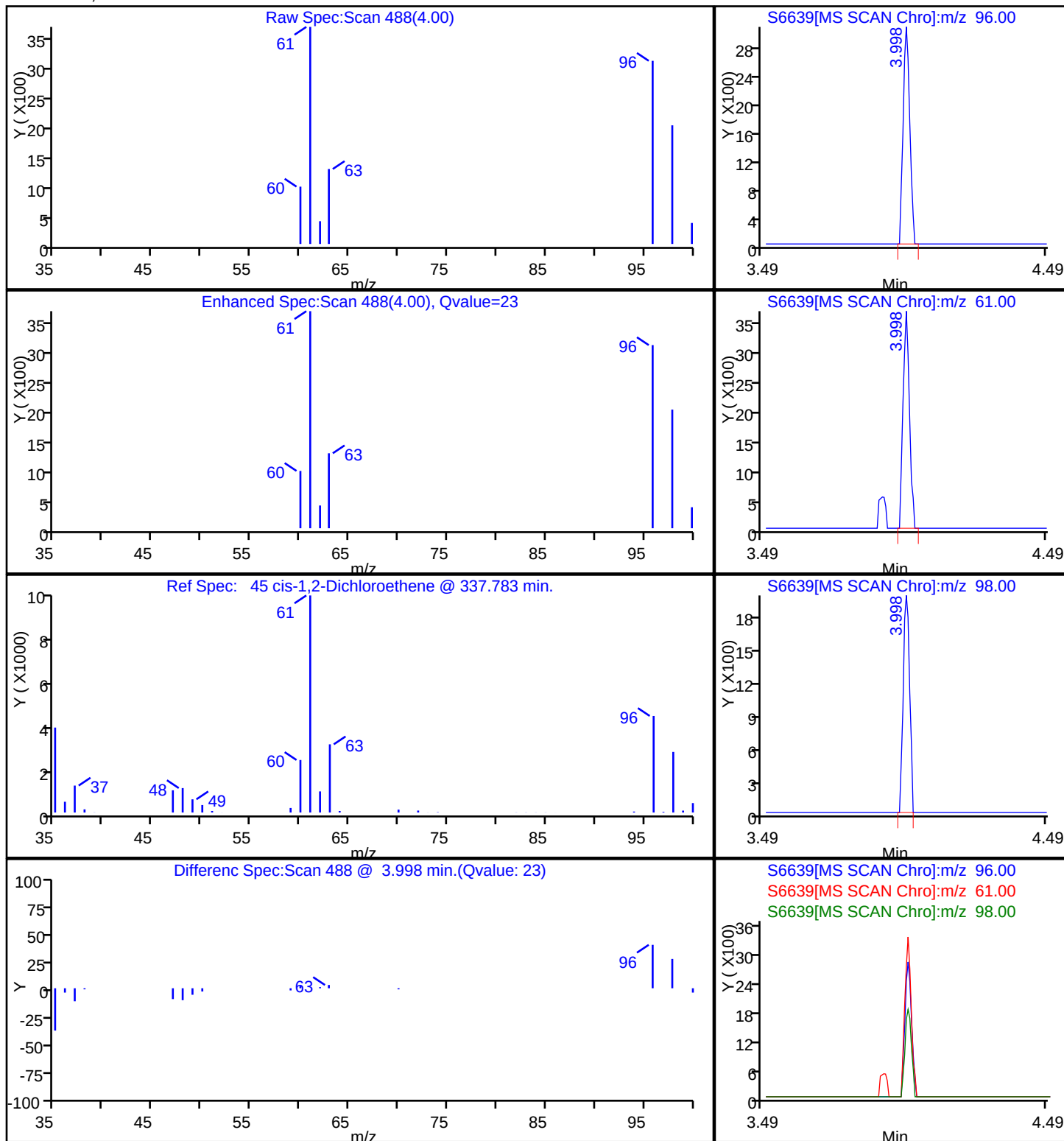
Lims Sample ID: 13

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-13R Lab Sample ID: 480-10504-9

Matrix: Water Lab File ID: S6640.D

Analysis Method: 8260B Date Collected: 09/27/2011 12:55

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:23

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	2.4		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-13R Lab Sample ID: 480-10504-9
 Matrix: Water Lab File ID: S6640.D
 Analysis Method: 8260B Date Collected: 09/27/2011 12:55
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:23
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	1.7		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	5.5		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6640.D
 Lims ID: 480-10504-C-9 Client ID: PZ-13R
 Inject. Date: 05-Oct-2011 14:23:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-C-9
 Misc. Info.: 480-0006450-014 =480-0006450-014
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 14
 Lims Batch ID: 34016 Lims Sample ID: 14
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:48:17

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	490465	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	221775	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	225563	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.001	96	81864	29.7	
\$ 5 Toluene-d8 (Surr)	98	6.012	6.011	0.001	92	518412	29.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	89	156881	28.3	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	40	13927	2.37	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.111	5.105	0.006	87	29528	5.48	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.456	6.456	0.0	83	9469	1.71	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:48:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6640.D

Injection Date: 05-Oct-2011 14:23:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-13R

Instrument ID: HP5973S

Lims Batch ID: 34016

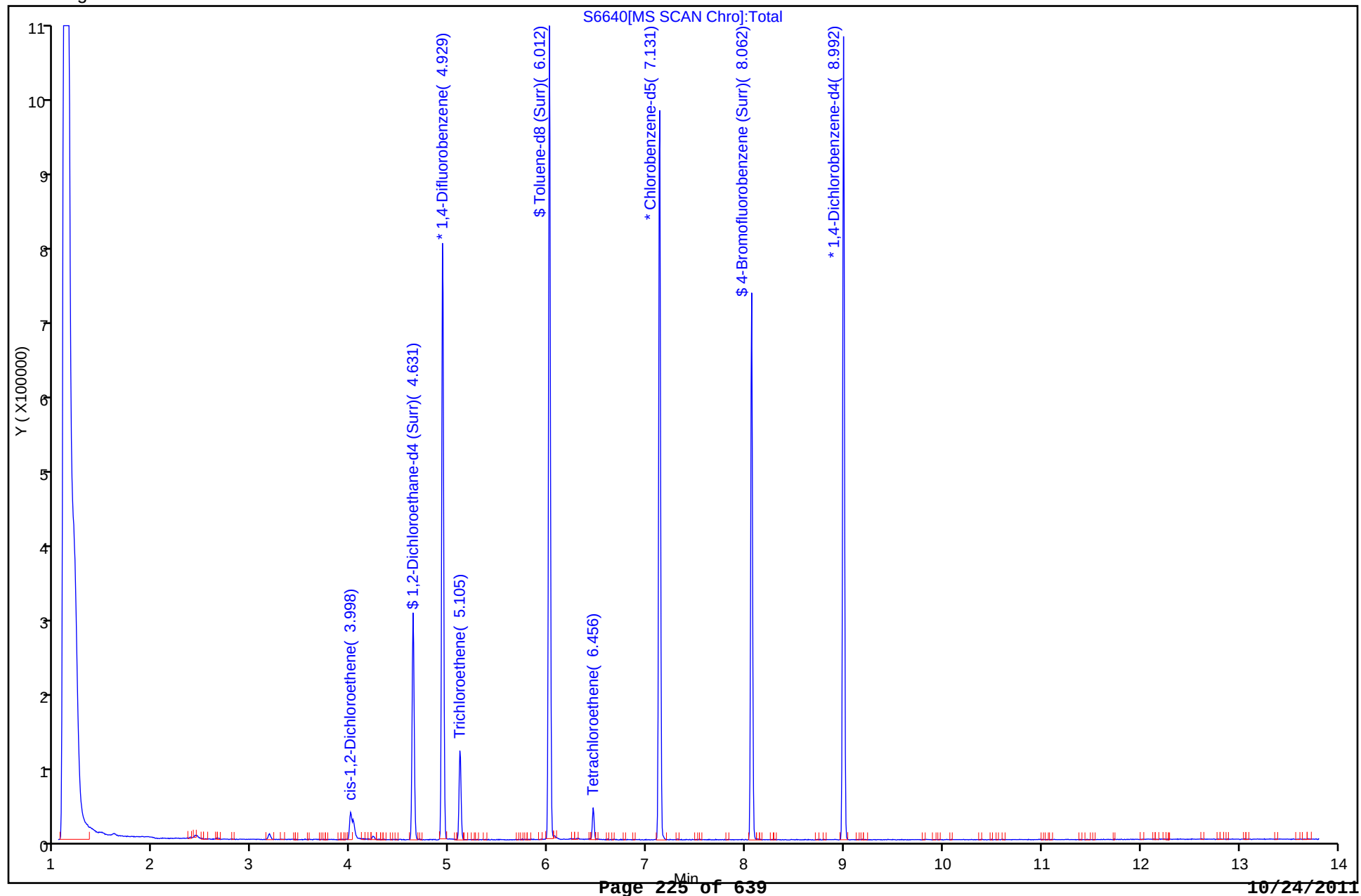
Lims Sample ID: 14

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:48:17

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6640.D

Injection Date: 05-Oct-2011 14:23:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-13R

Instrument ID: HP5973S

Lims Batch ID: 34016

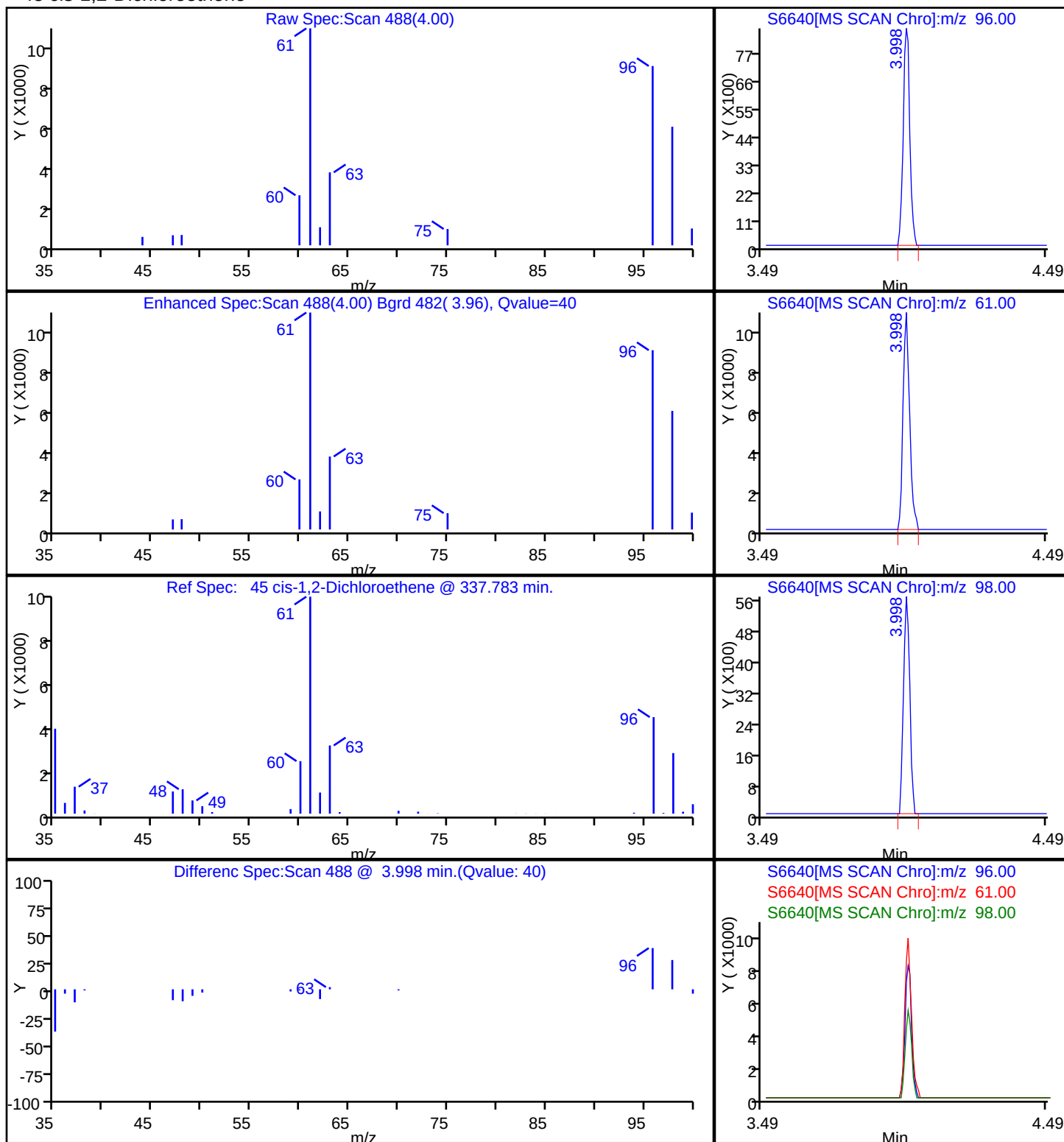
Lims Sample ID: 14

Operator ID: DHC

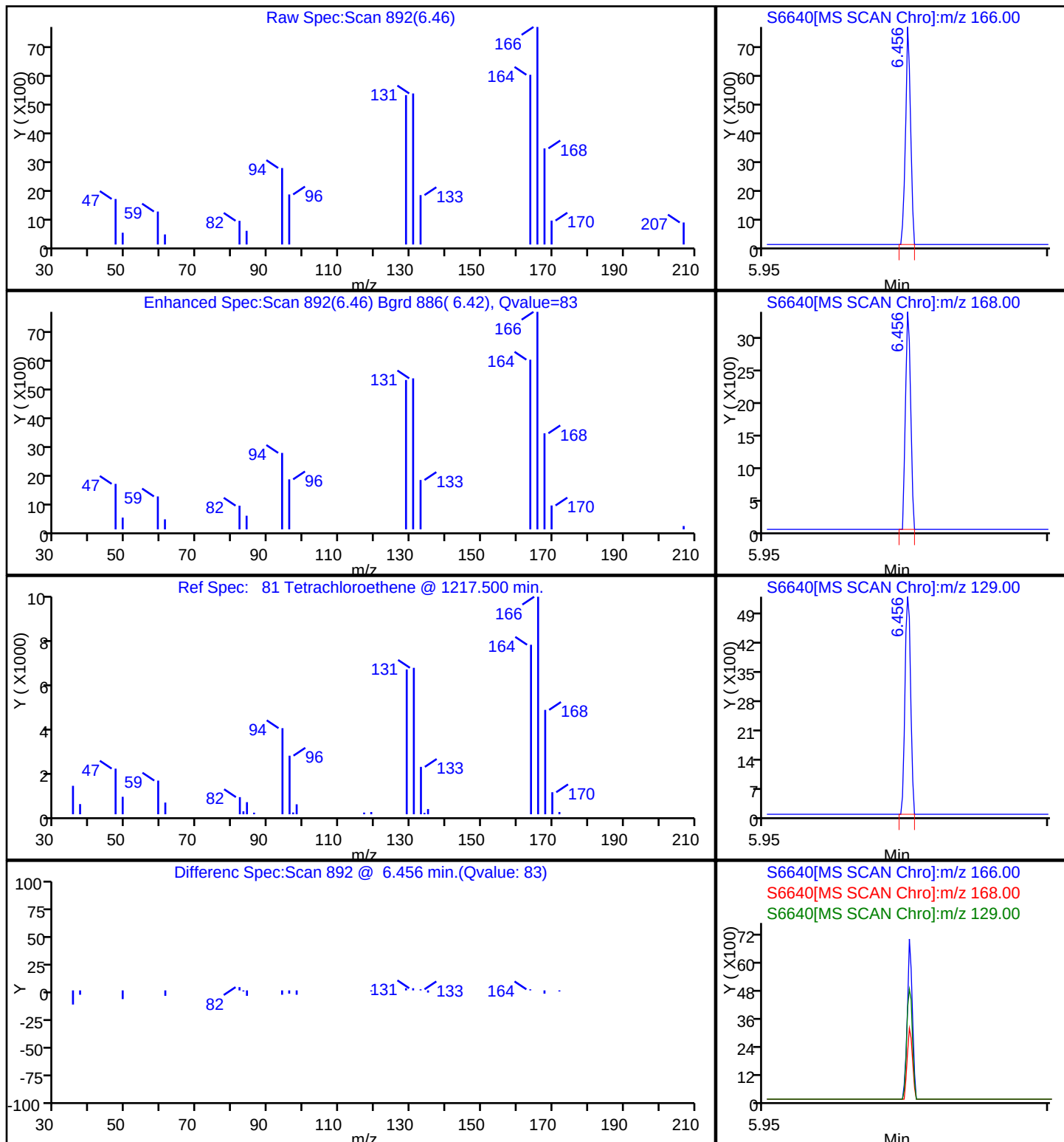
Column Type: ZB-624

Column Dia: 0.25 mm

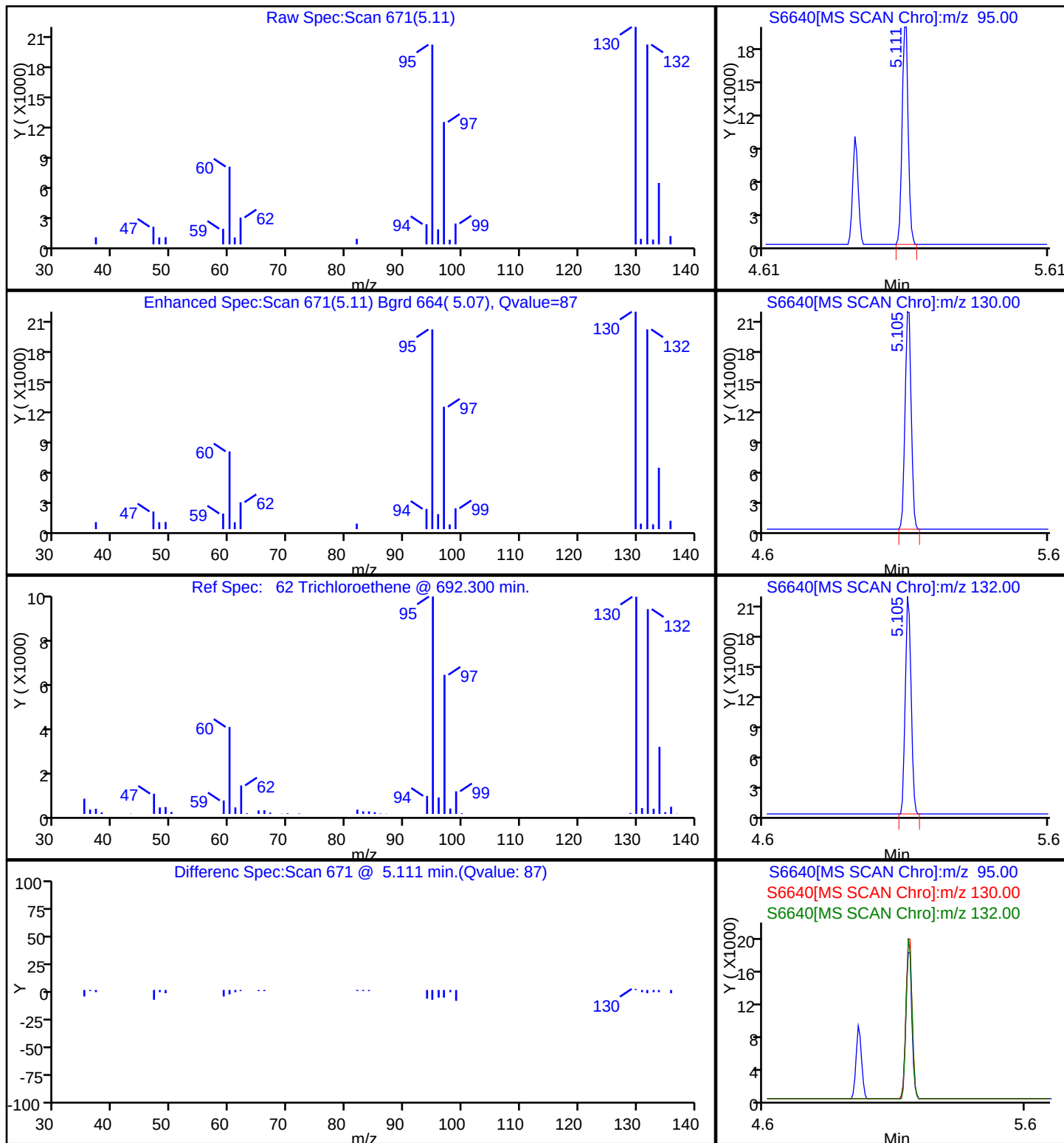
45 cis-1,2-Dichloroethene



81 Tetrachloroethene



62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-2 Lab Sample ID: 480-10504-10

Matrix: Water Lab File ID: S6641.D

Analysis Method: 8260B Date Collected: 09/27/2011 18:05

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:46

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	5.9		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	13		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-2 Lab Sample ID: 480-10504-10
 Matrix: Water Lab File ID: S6641.D
 Analysis Method: 8260B Date Collected: 09/27/2011 18:05
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 14:46
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	2.0		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	33		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D
 Lims ID: 480-10504-A-10 Client ID: MW-2
 Inject. Date: 05-Oct-2011 14:46:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-10
 Misc. Info.: 480-0006450-015 =480-0006450-015
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 15
 Lims Batch ID: 34016 Lims Sample ID: 15
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:48:30

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	476054	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	219280	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	224677	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	77573	28.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	501170	28.9	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	153773	28.1	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.503	1.504	-0.001	81	169815	33.0	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	84	10156	1.96	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	78	52819	5.91	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	72715	12.7	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:48:30

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D

Injection Date: 05-Oct-2011 14:46:30

Limit Group: MV - 8260B ICAL

Client ID: MW-2

Instrument ID: HP5973S

Lims Batch ID: 34016

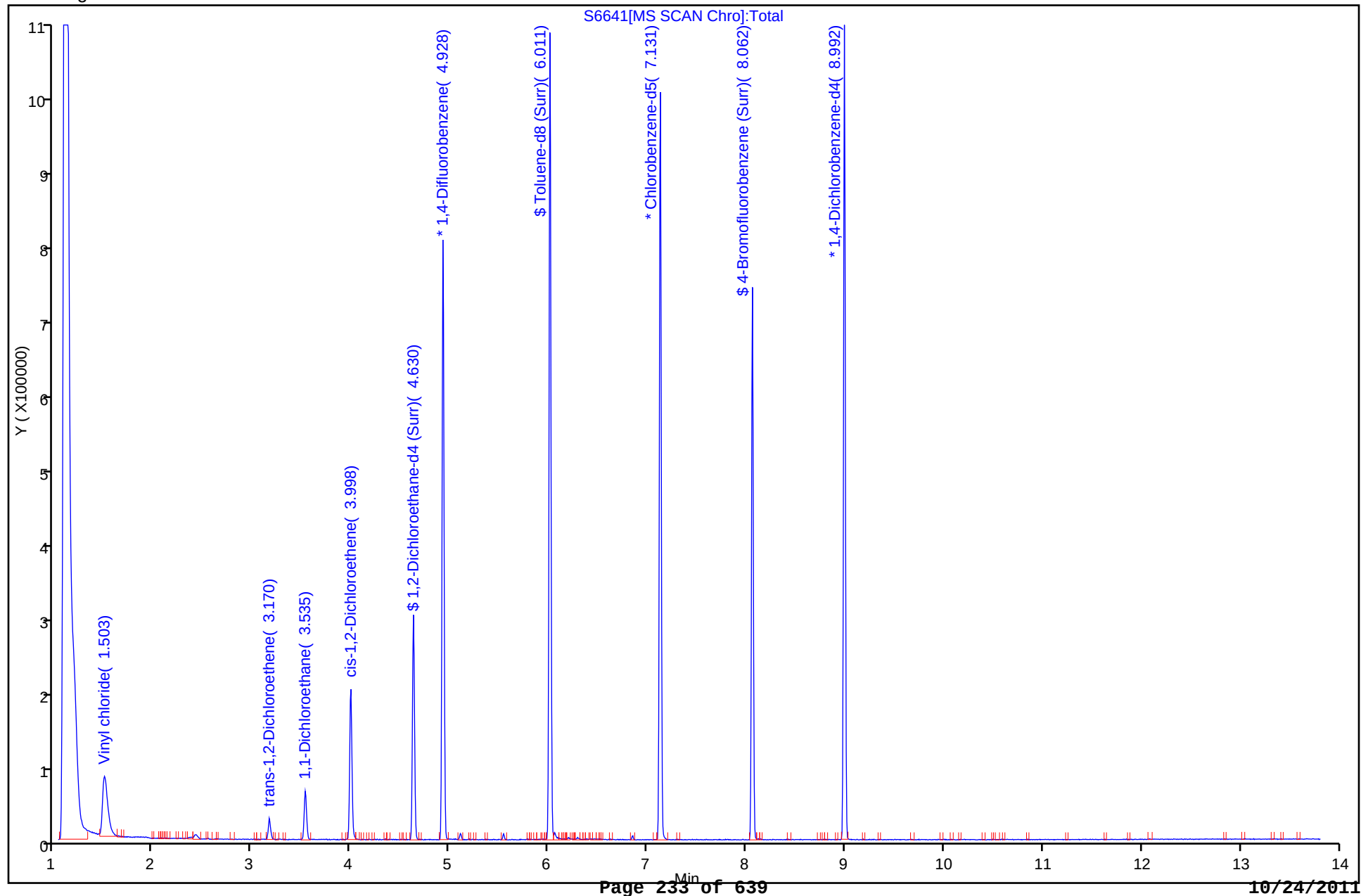
Lims Sample ID: 15

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:48:30

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D

Injection Date: 05-Oct-2011 14:46:30

Limit Group: MV - 8260B ICAL

Client ID: MW-2

Instrument ID: HP5973S

Lims Batch ID: 34016

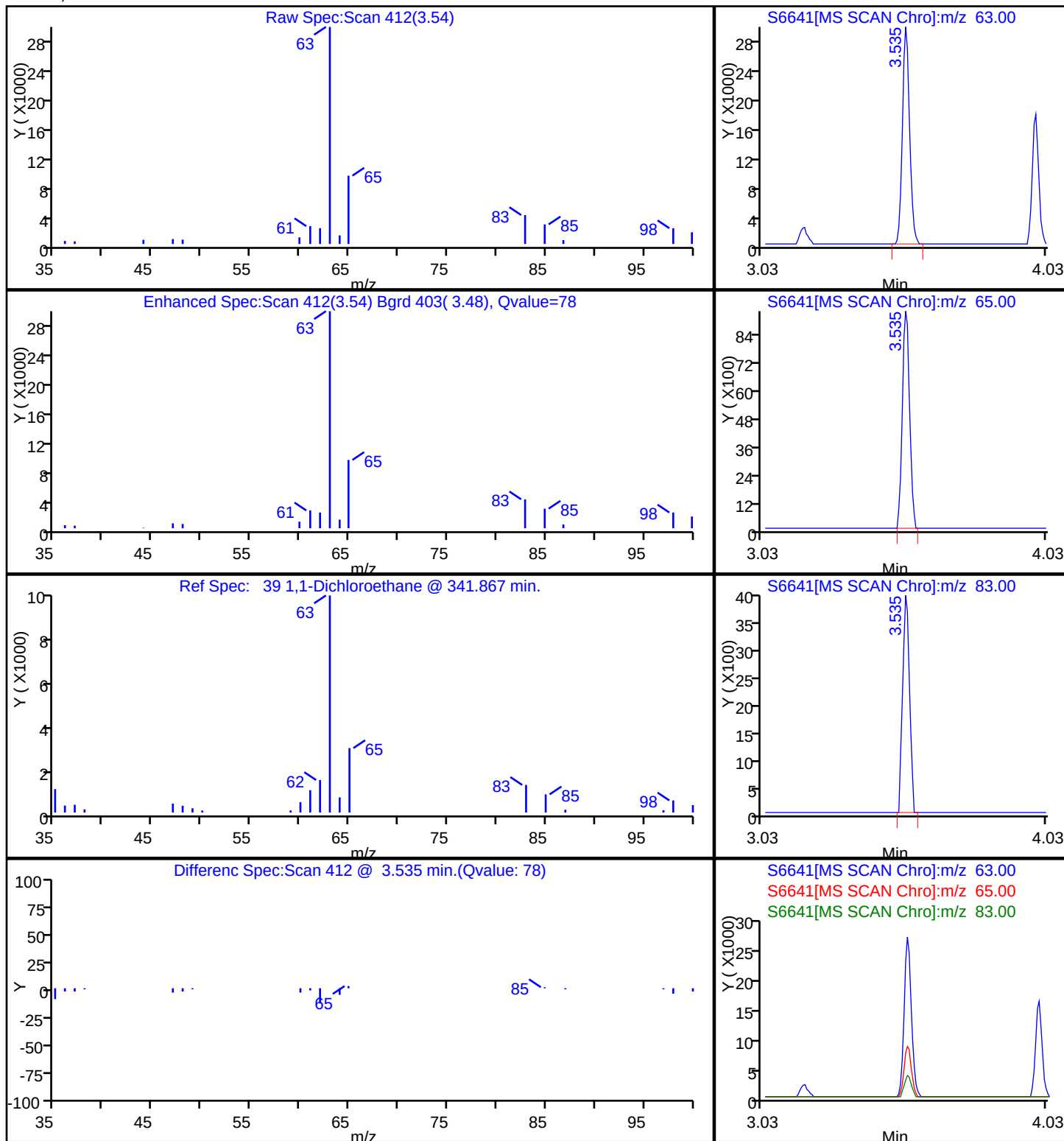
Lims Sample ID: 15

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 07:48:30

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D

Injection Date: 05-Oct-2011 14:46:30

Limit Group: MV - 8260B ICAL

Client ID: MW-2

Instrument ID: HP5973S

Lims Batch ID: 34016

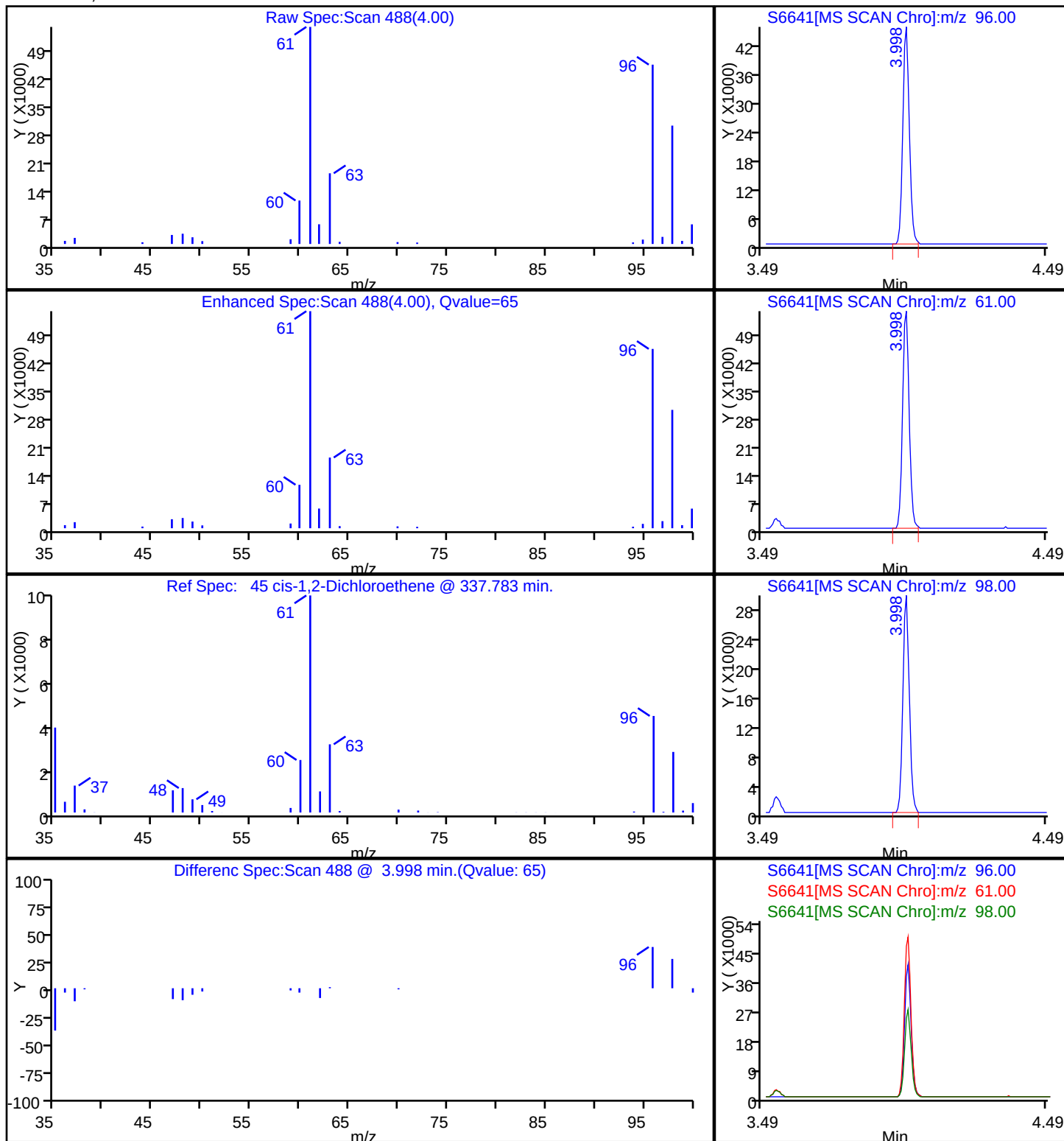
Lims Sample ID: 15

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 07:48:30

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D

Injection Date: 05-Oct-2011 14:46:30

Limit Group: MV - 8260B ICAL

Client ID: MW-2

Instrument ID: HP5973S

Lims Batch ID: 34016

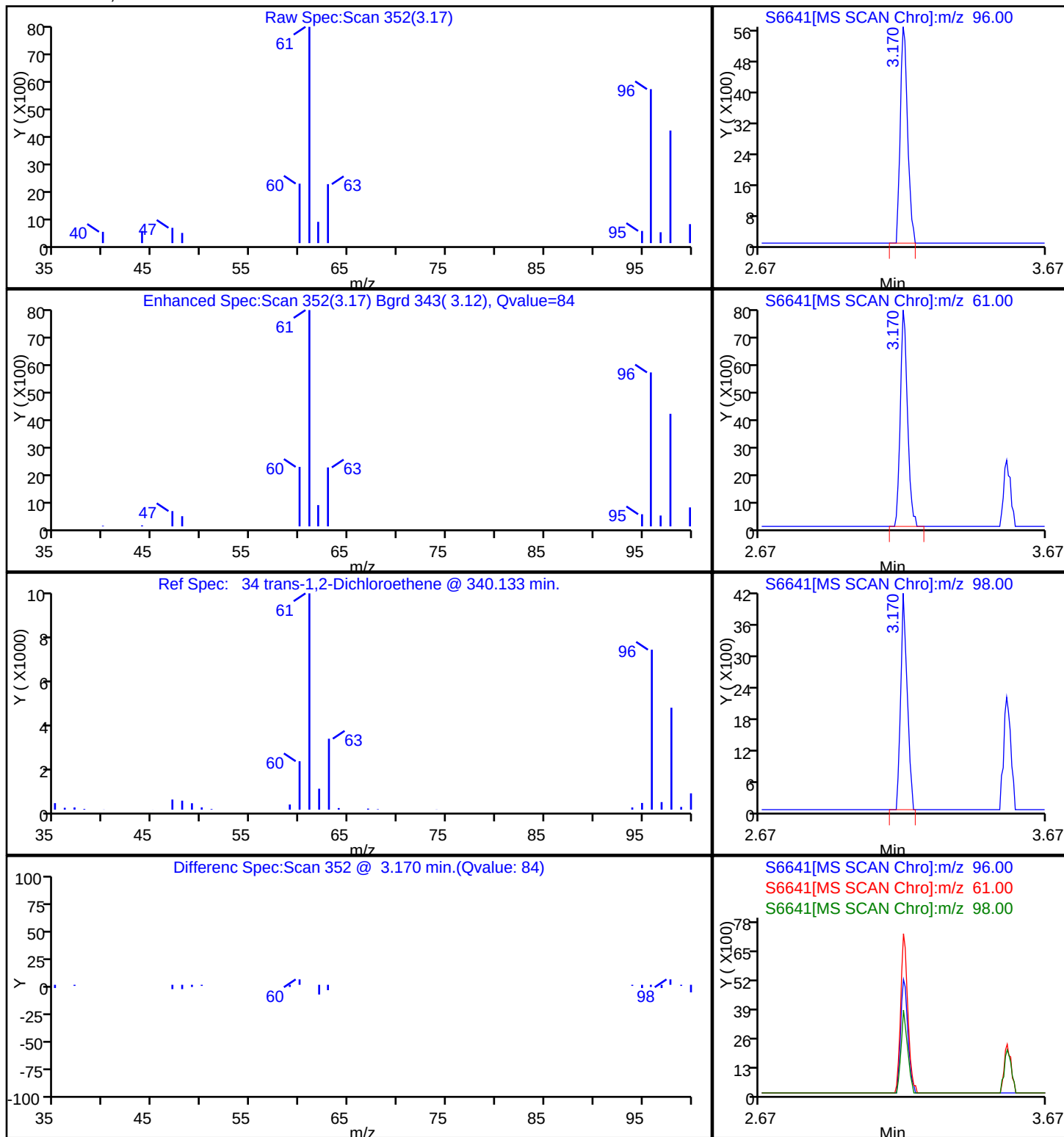
Lims Sample ID: 15

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

34 trans-1,2-Dichloroethene



Report Date: 06-Oct-2011 07:48:30

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6641.D

Injection Date: 05-Oct-2011 14:46:30

Limit Group: MV - 8260B ICAL

Client ID: MW-2

Instrument ID: HP5973S

Lims Batch ID: 34016

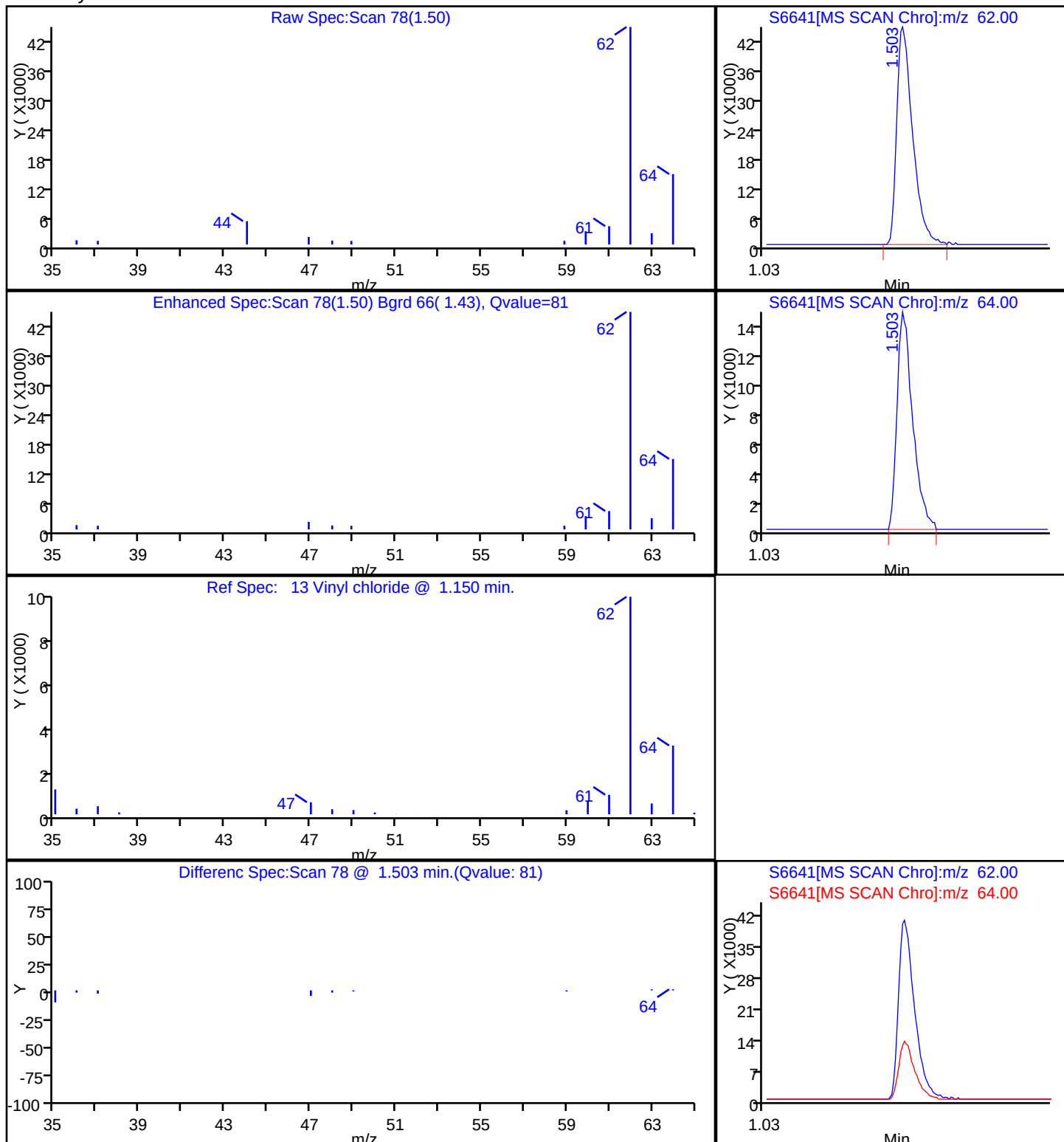
Lims Sample ID: 15

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-5 Lab Sample ID: 480-10504-11

Matrix: Water Lab File ID: S6642.D

Analysis Method: 8260B Date Collected: 09/28/2011 14:25

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:08

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.69	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-5 Lab Sample ID: 480-10504-11
 Matrix: Water Lab File ID: S6642.D
 Analysis Method: 8260B Date Collected: 09/28/2011 14:25
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	119		71-126
460-00-4	4-Bromofluorobenzene (Surr)	115		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6642.D
 Lims ID: 480-10504-A-11 Client ID: MW-5
 Inject. Date: 05-Oct-2011 15:08:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-11
 Misc. Info.: 480-0006450-016 =480-0006450-016
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 16
 Lims Batch ID: 34016 Lims Sample ID: 16
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:48:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	474723	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	216296	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	224944	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	80041	30.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	507260	29.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	154958	28.7	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.647	2.647	0.0	29	2536	1.38	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	1	6108	0.6855	
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:48:42

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6642.D

Injection Date: 05-Oct-2011 15:08:30

Limit Group: MV - 8260B ICAL

Client ID: MW-5

Instrument ID: HP5973S

Lims Batch ID: 34016

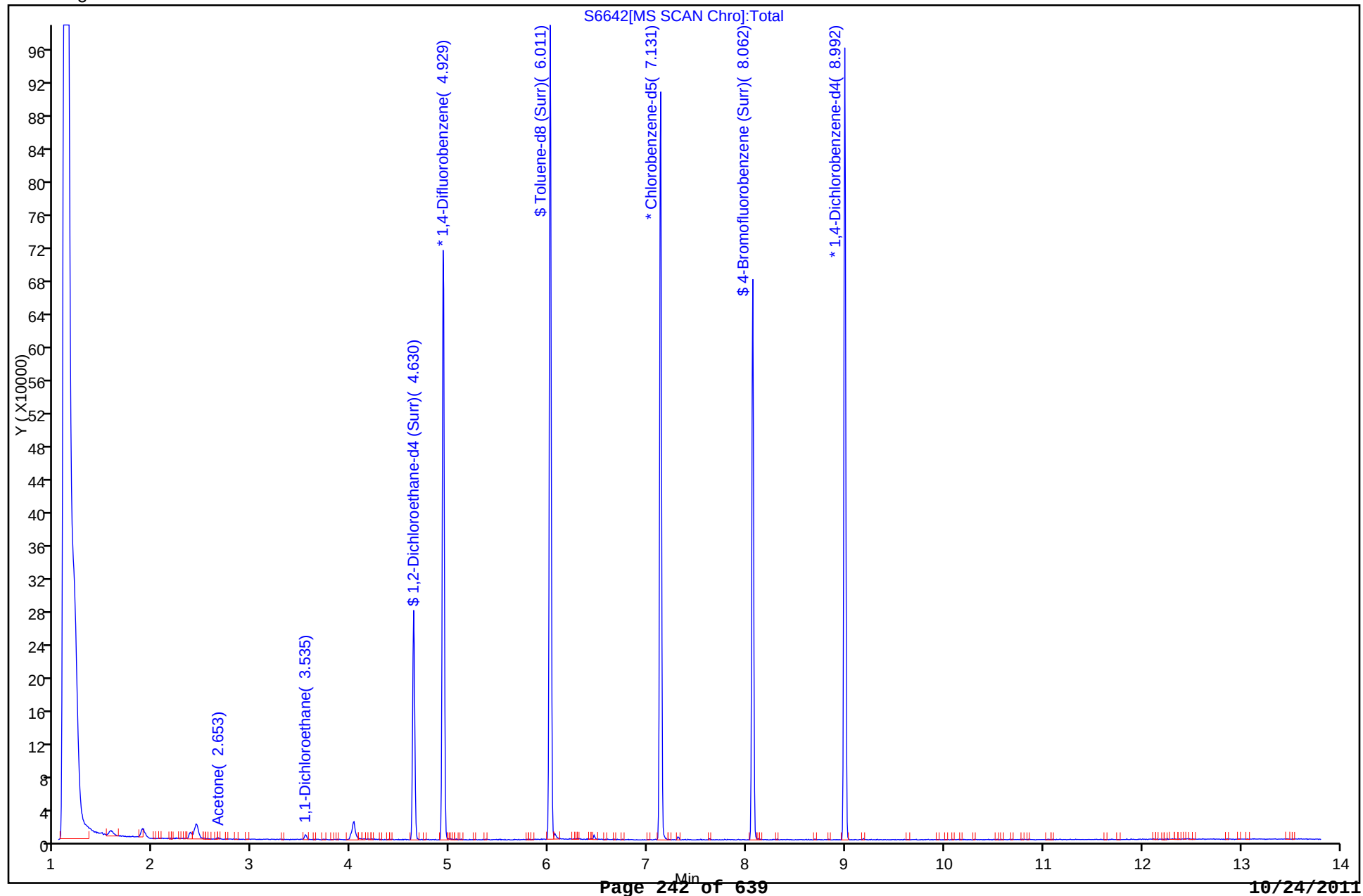
Lims Sample ID: 16

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:48:42

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6642.D

Injection Date: 05-Oct-2011 15:08:30

Limit Group: MV - 8260B ICAL

Client ID: MW-5

Instrument ID: HP5973S

Lims Batch ID: 34016

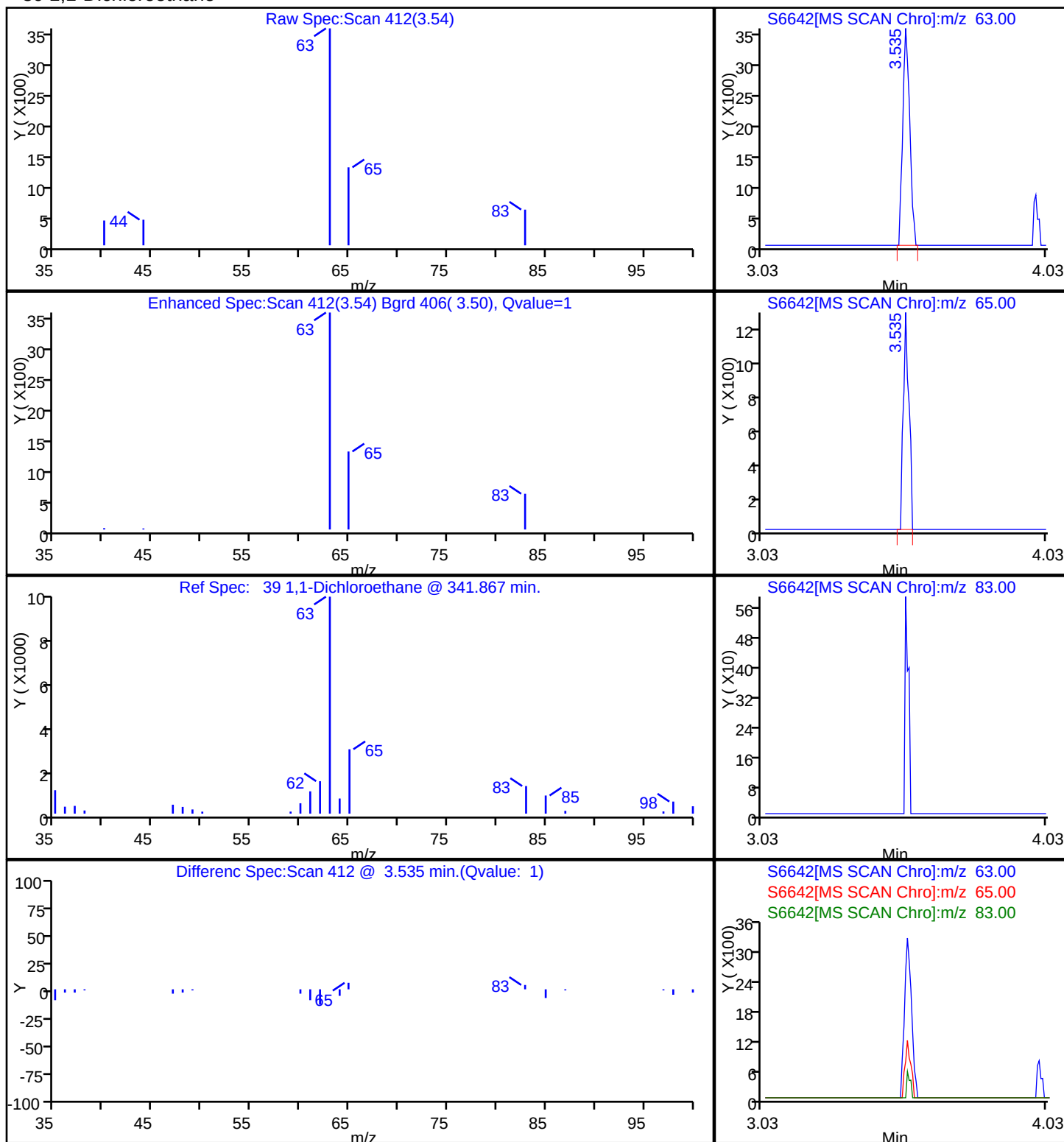
Lims Sample ID: 16

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-1 Lab Sample ID: 480-10504-12

Matrix: Water Lab File ID: S6643.D

Analysis Method: 8260B Date Collected: 09/28/2011 14:55

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:30

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	5.8		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	40		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-1 Lab Sample ID: 480-10504-12
 Matrix: Water Lab File ID: S6643.D
 Analysis Method: 8260B Date Collected: 09/28/2011 14:55
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	77		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	18		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	3.1		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6643.D
 Lims ID: 480-10504-D-12 Client ID: MW-1
 Inject. Date: 05-Oct-2011 15:30:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-12
 Misc. Info.: 480-0006450-017 =480-0006450-017
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 17
 Lims Batch ID: 34016 Lims Sample ID: 17
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:48:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	477165	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	214615	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	222866	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	78779	29.4	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	493243	29.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	88	149911	28.0	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.503	1.504	-0.001	38	15950	3.09	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	78	51590	5.76	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	227337	39.7	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	92	96296	18.4	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	91	413603	77.1	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:48:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6643.D

Injection Date: 05-Oct-2011 15:30:30

Limit Group: MV - 8260B ICAL

Client ID: MW-1

Instrument ID: HP5973S

Lims Batch ID: 34016

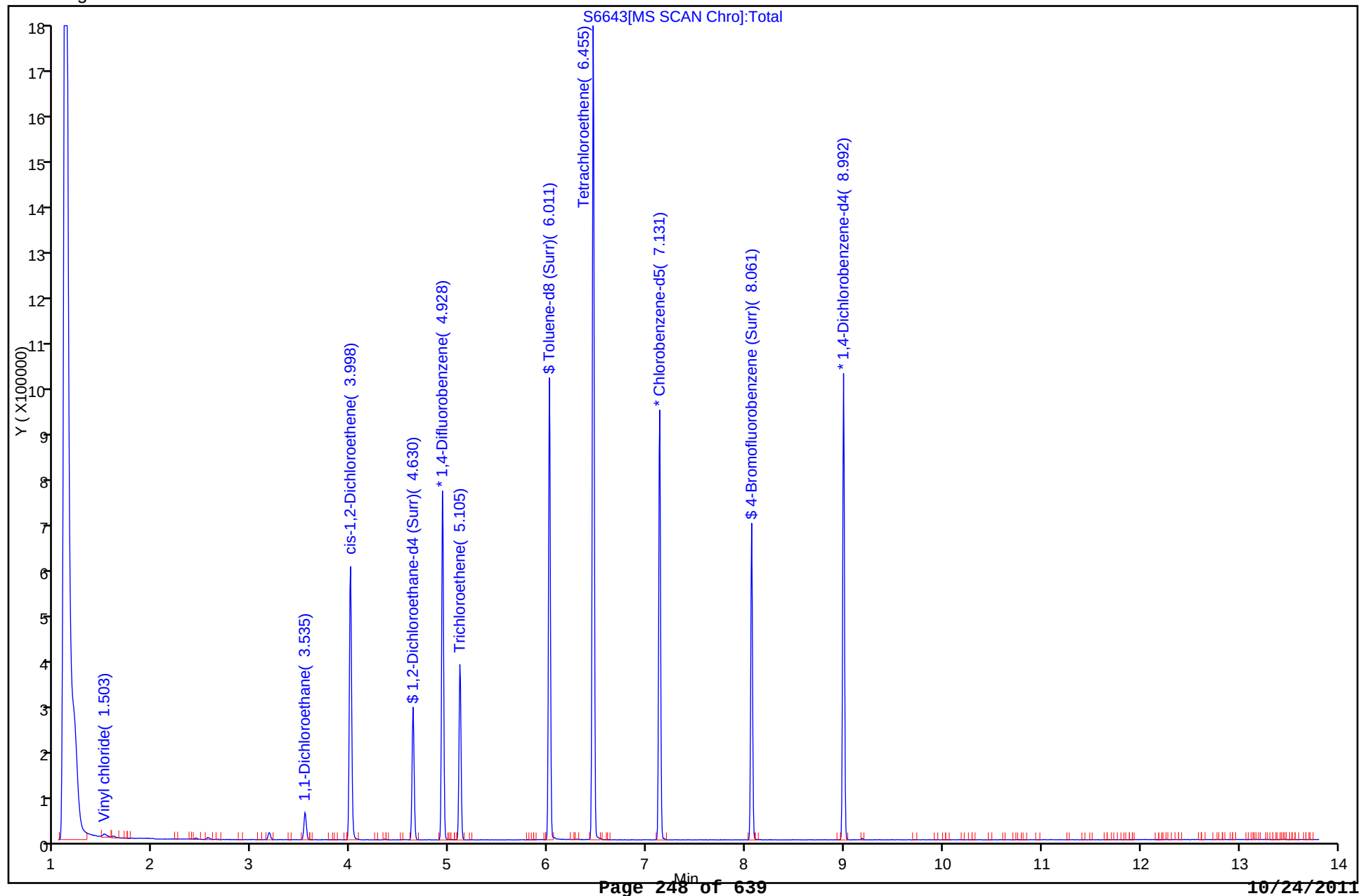
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:48:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6643.D

Injection Date: 05-Oct-2011 15:30:30

Limit Group: MV - 8260B ICAL

Client ID: MW-1

Instrument ID: HP5973S

Lims Batch ID: 34016

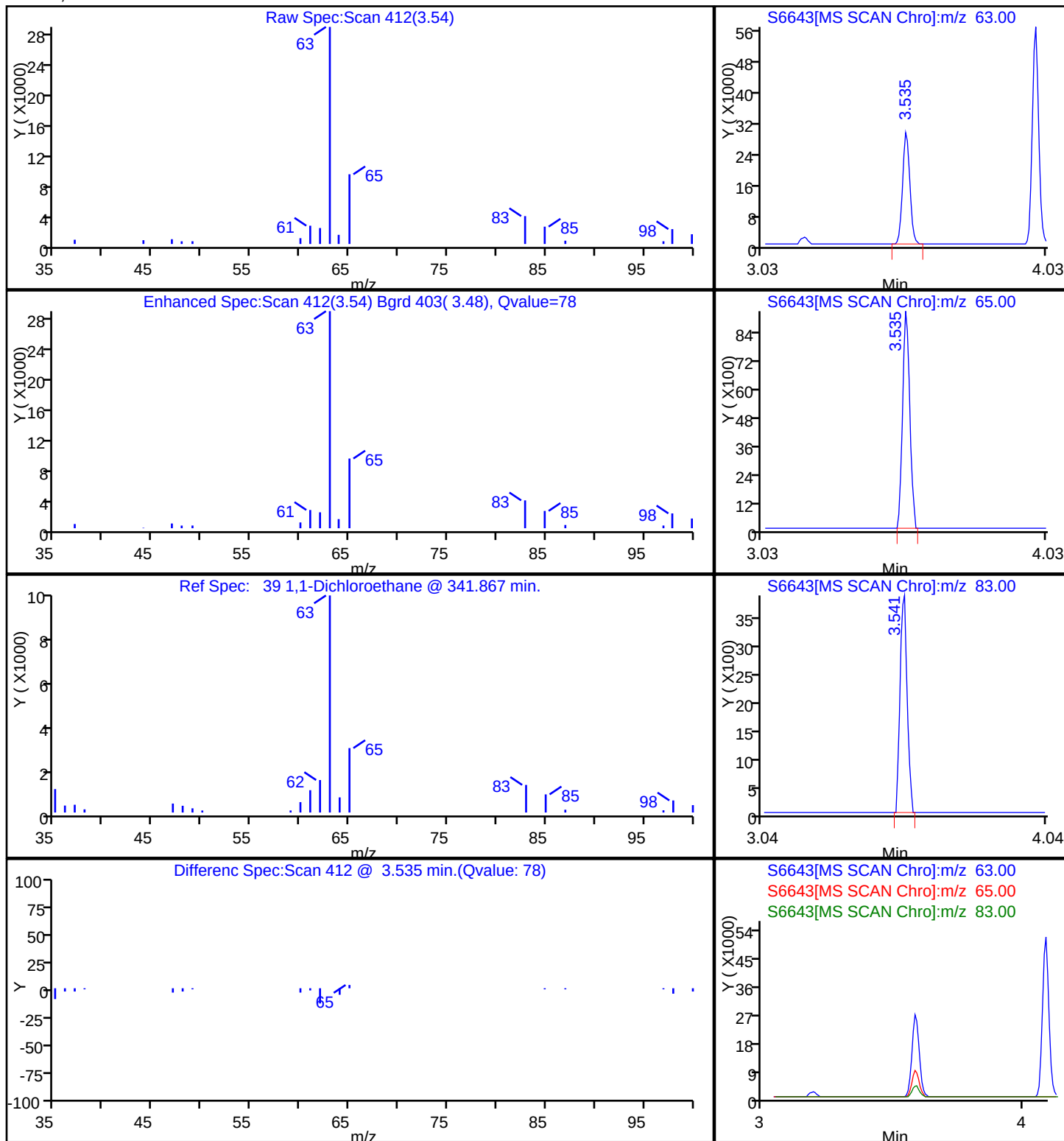
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 07:48:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6643.D

Injection Date: 05-Oct-2011 15:30:30

Limit Group: MV - 8260B ICAL

Client ID: MW-1

Instrument ID: HP5973S

Lims Batch ID: 34016

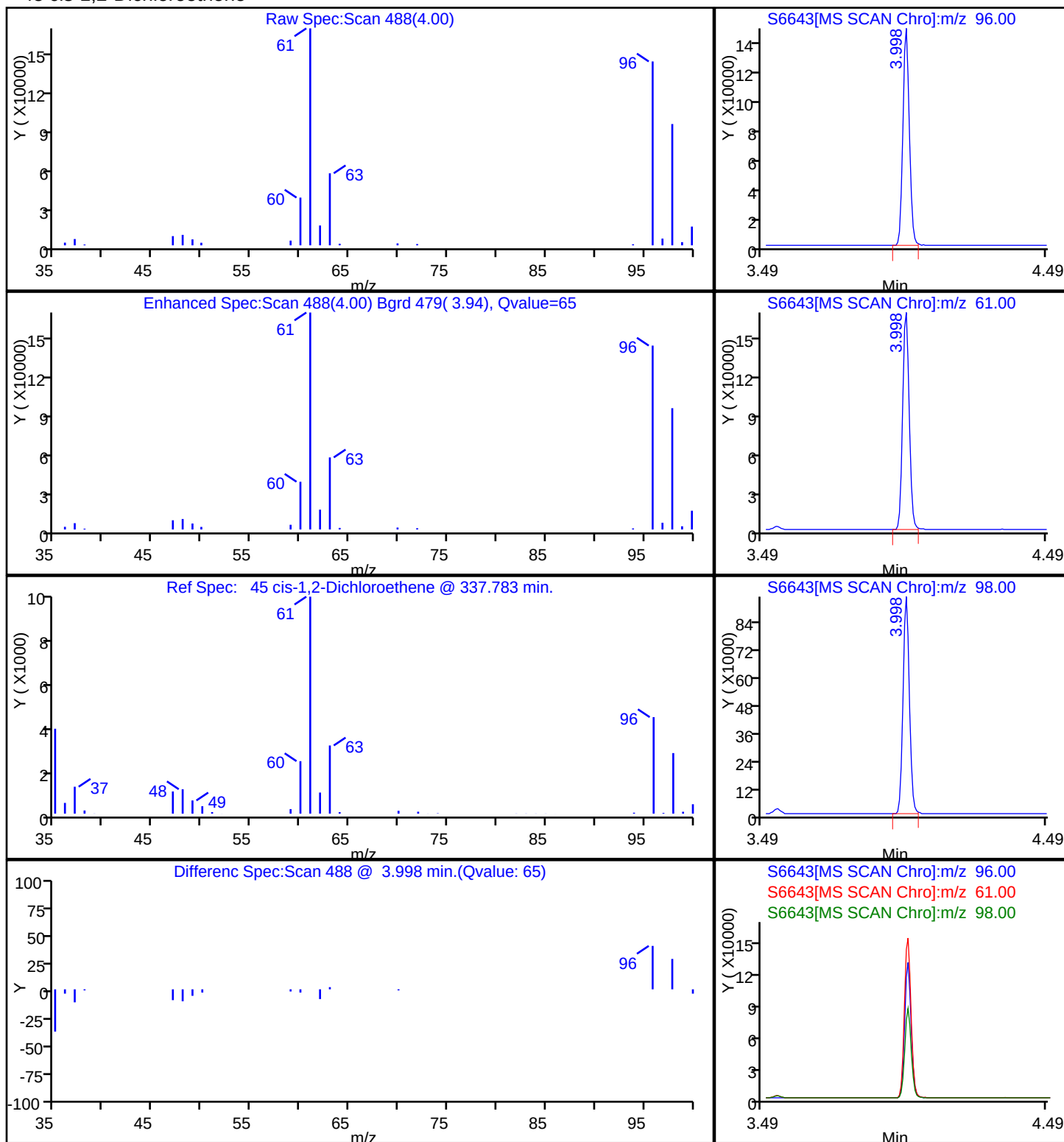
Lims Sample ID: 17

Operator ID: DHC

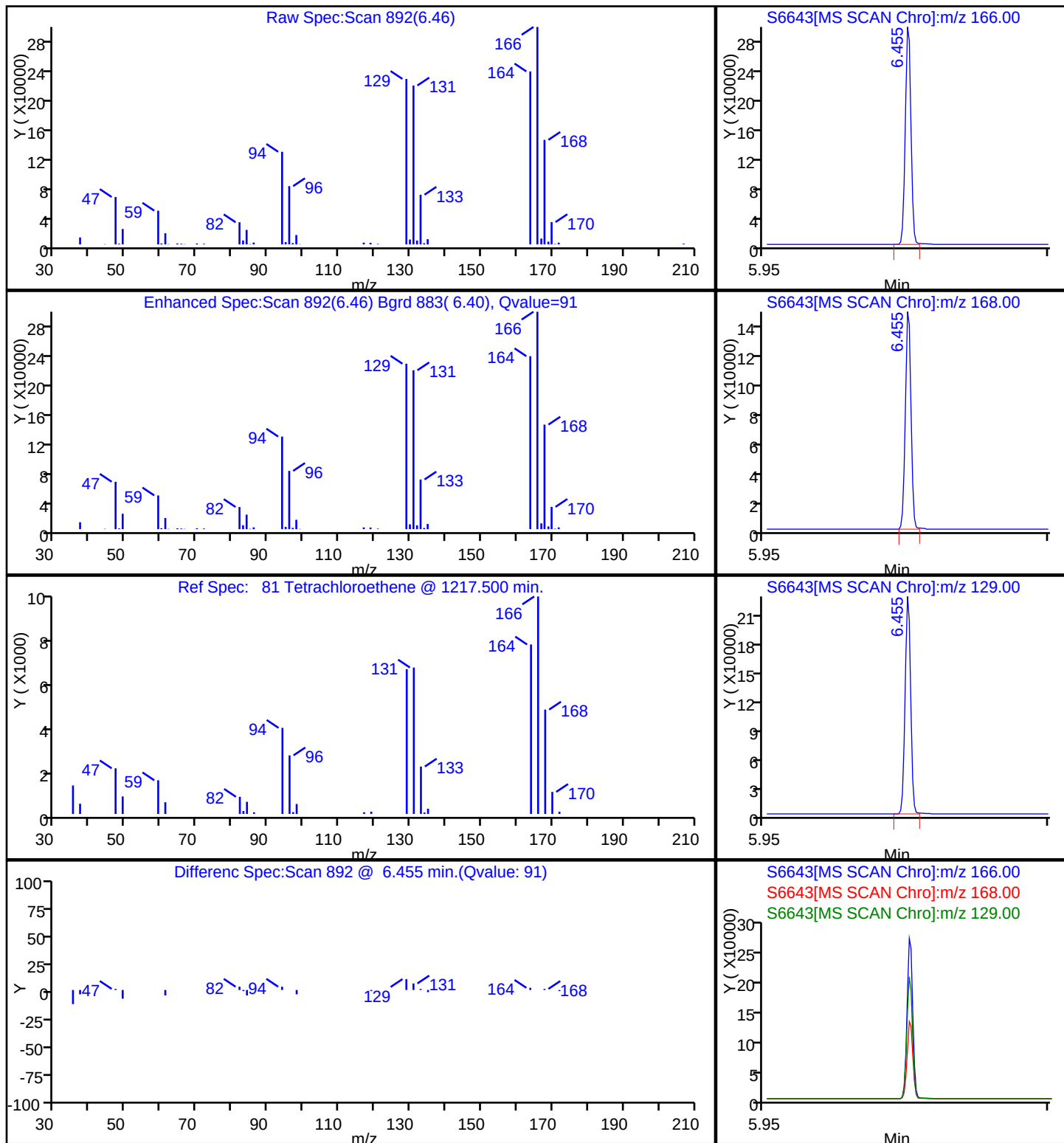
Column Type: ZB-624

Column Dia: 0.25 mm

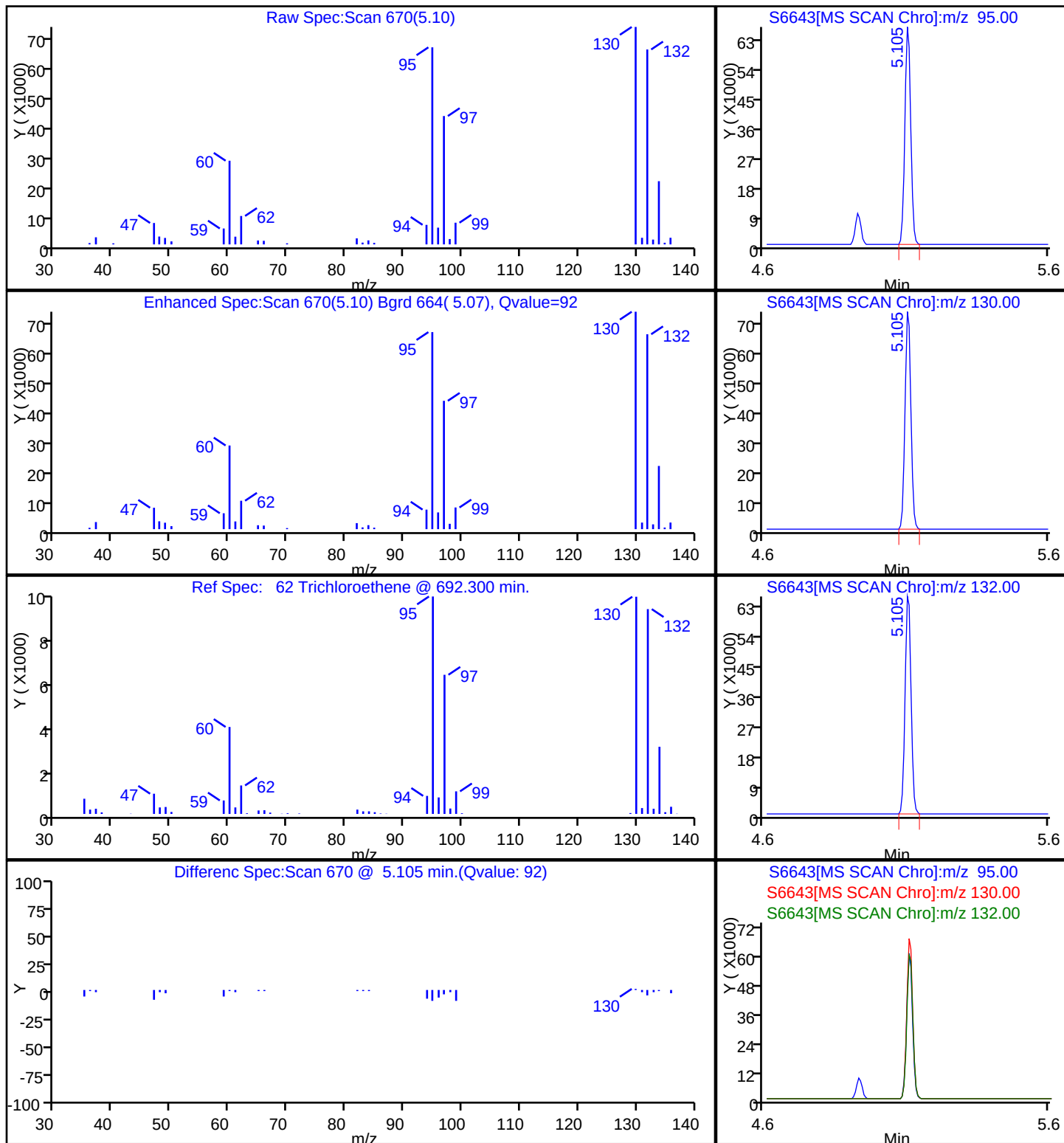
45 cis-1,2-Dichloroethene



81 Tetrachloroethene



62 Trichloroethene



Report Date: 06-Oct-2011 07:48:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6643.D

Injection Date: 05-Oct-2011 15:30:30

Limit Group: MV - 8260B ICAL

Client ID: MW-1

Instrument ID: HP5973S

Lims Batch ID: 34016

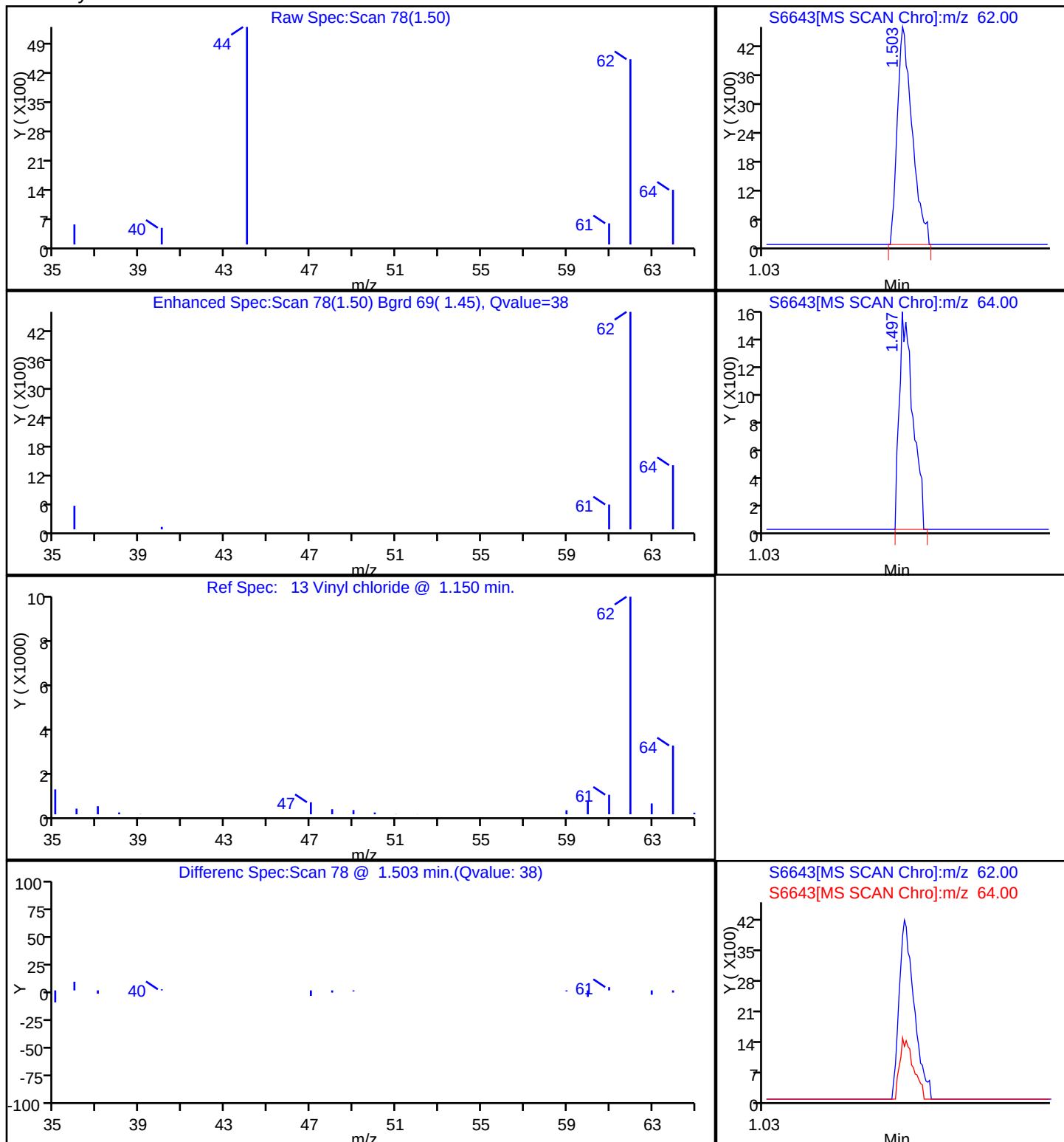
Lims Sample ID: 17

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-3 Lab Sample ID: 480-10504-13

Matrix: Water Lab File ID: S6644.D

Analysis Method: 8260B Date Collected: 09/28/2011 16:55

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:52

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	6.8		1.0	0.38
75-35-4	1,1-Dichloroethene	0.57	J	1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	68		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-3 Lab Sample ID: 480-10504-13
 Matrix: Water Lab File ID: S6644.D
 Analysis Method: 8260B Date Collected: 09/28/2011 16:55
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 15:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	9.2		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	16		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	5.0		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D
 Lims ID: 480-10504-D-13 Client ID: MW-3
 Inject. Date: 05-Oct-2011 15:52:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-13
 Misc. Info.: 480-0006450-018 =480-0006450-018
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 18
 Lims Batch ID: 34016 Lims Sample ID: 18
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:49:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	471168	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	216598	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	223127	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	77881	29.4	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	496988	29.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	89	150114	27.8	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.509	1.504	0.005	38	25401	4.99	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96	2.550	2.550	0.0	27	2724	0.5723	
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	81	60535	6.84	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	381785	67.6	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	83348	16.1	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	90	49562	9.15	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

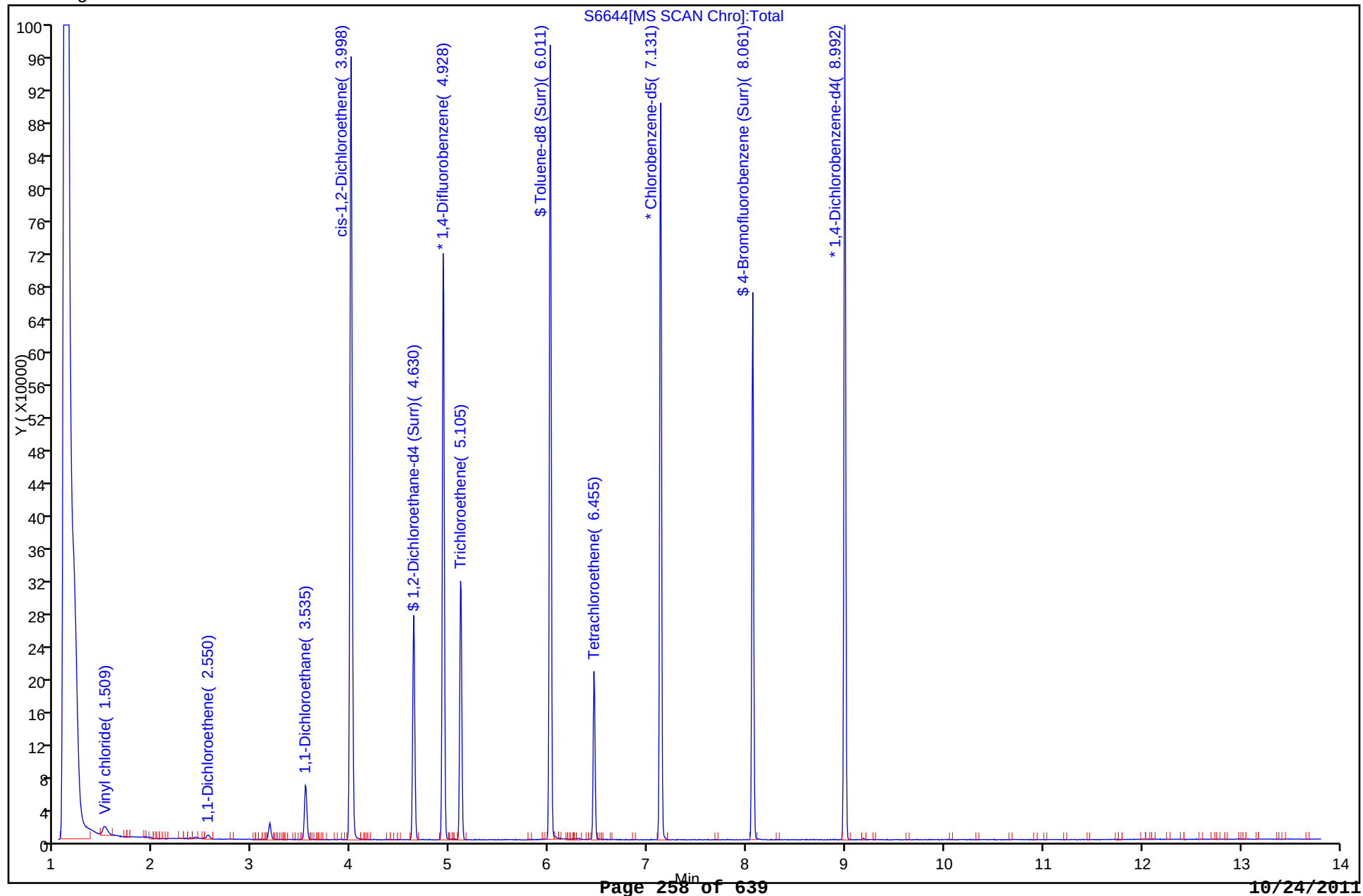
Lims Sample ID: 18

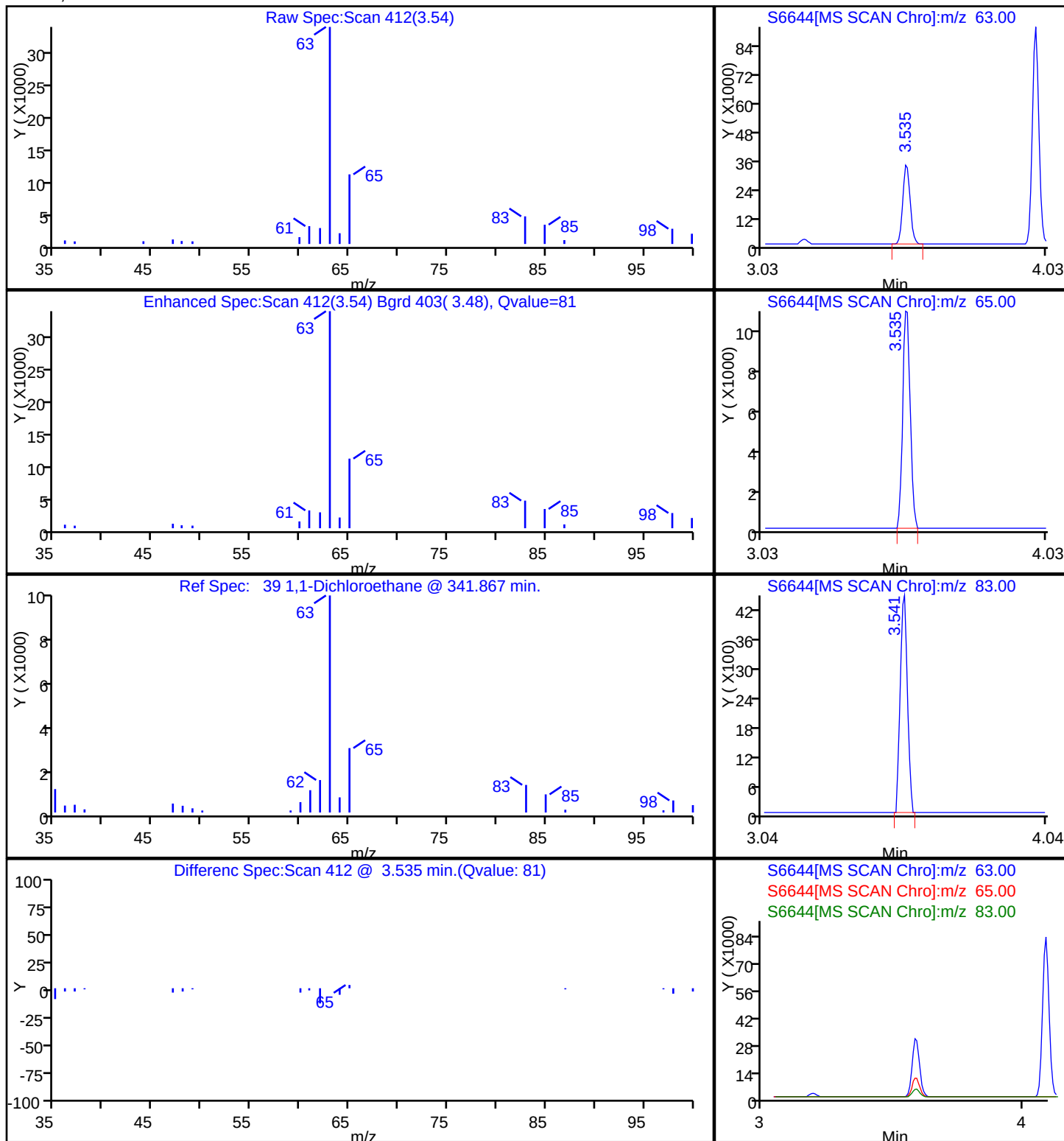
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:





Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

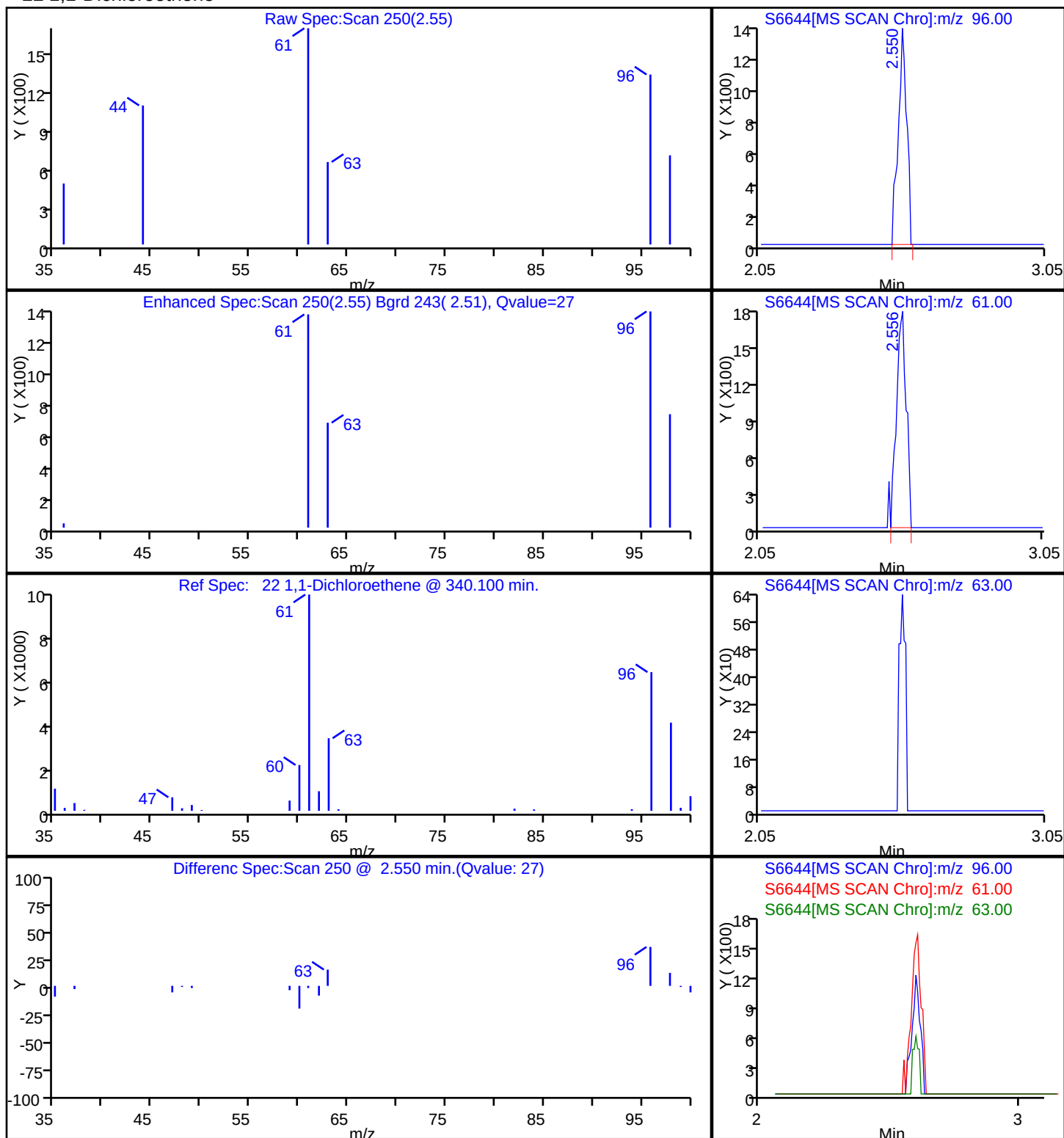
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

22 1,1-Dichloroethene



Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

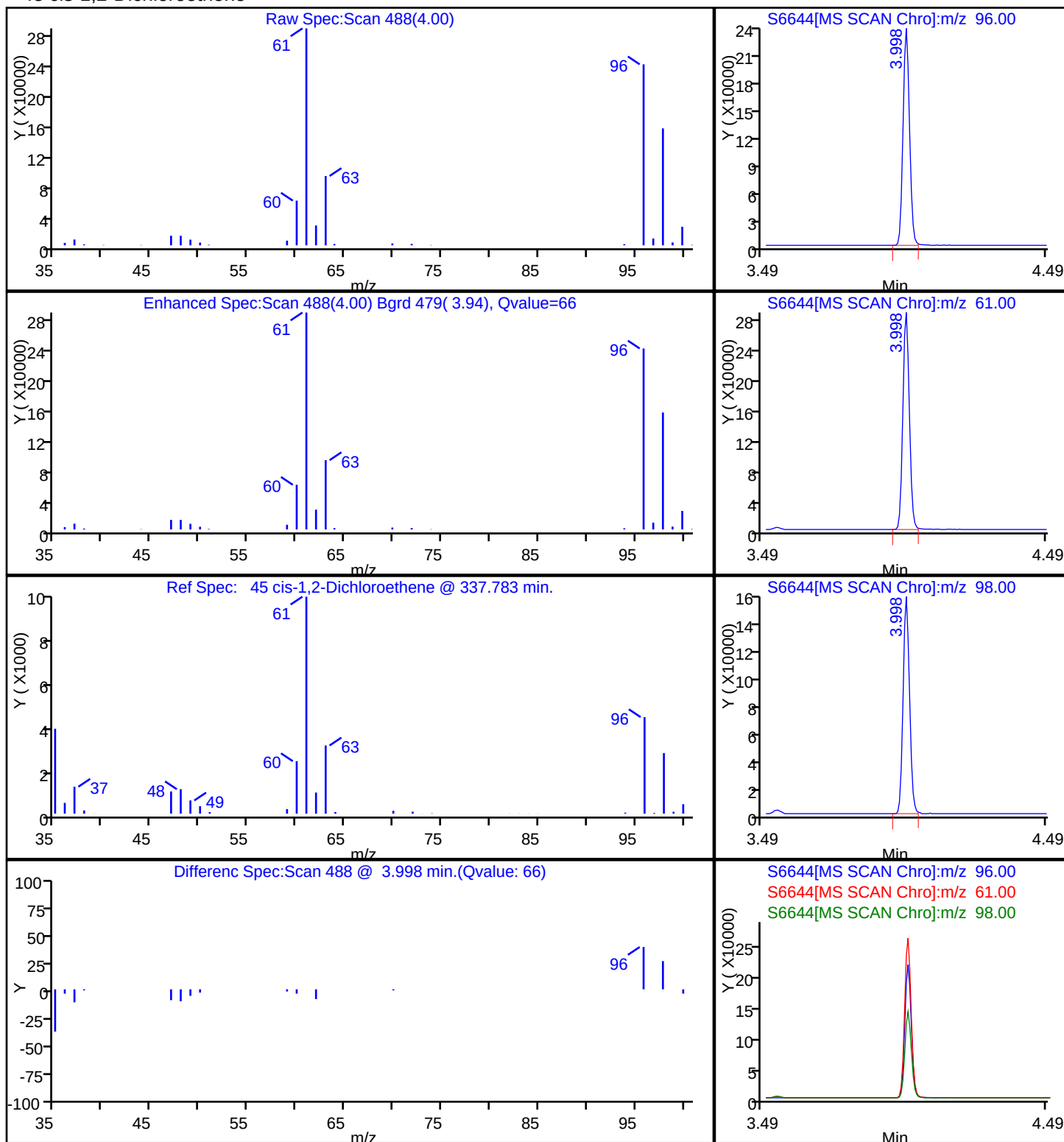
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

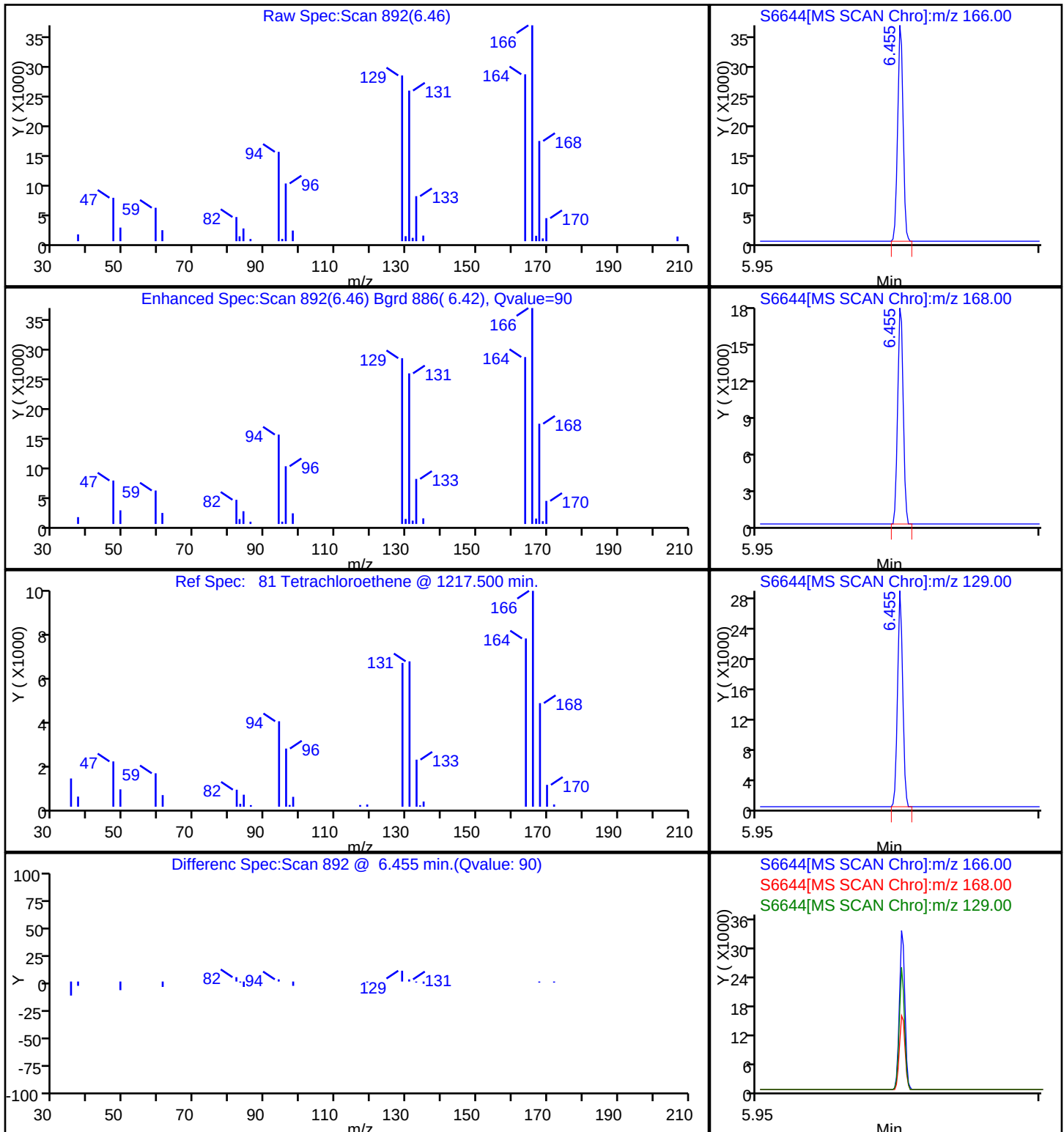
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

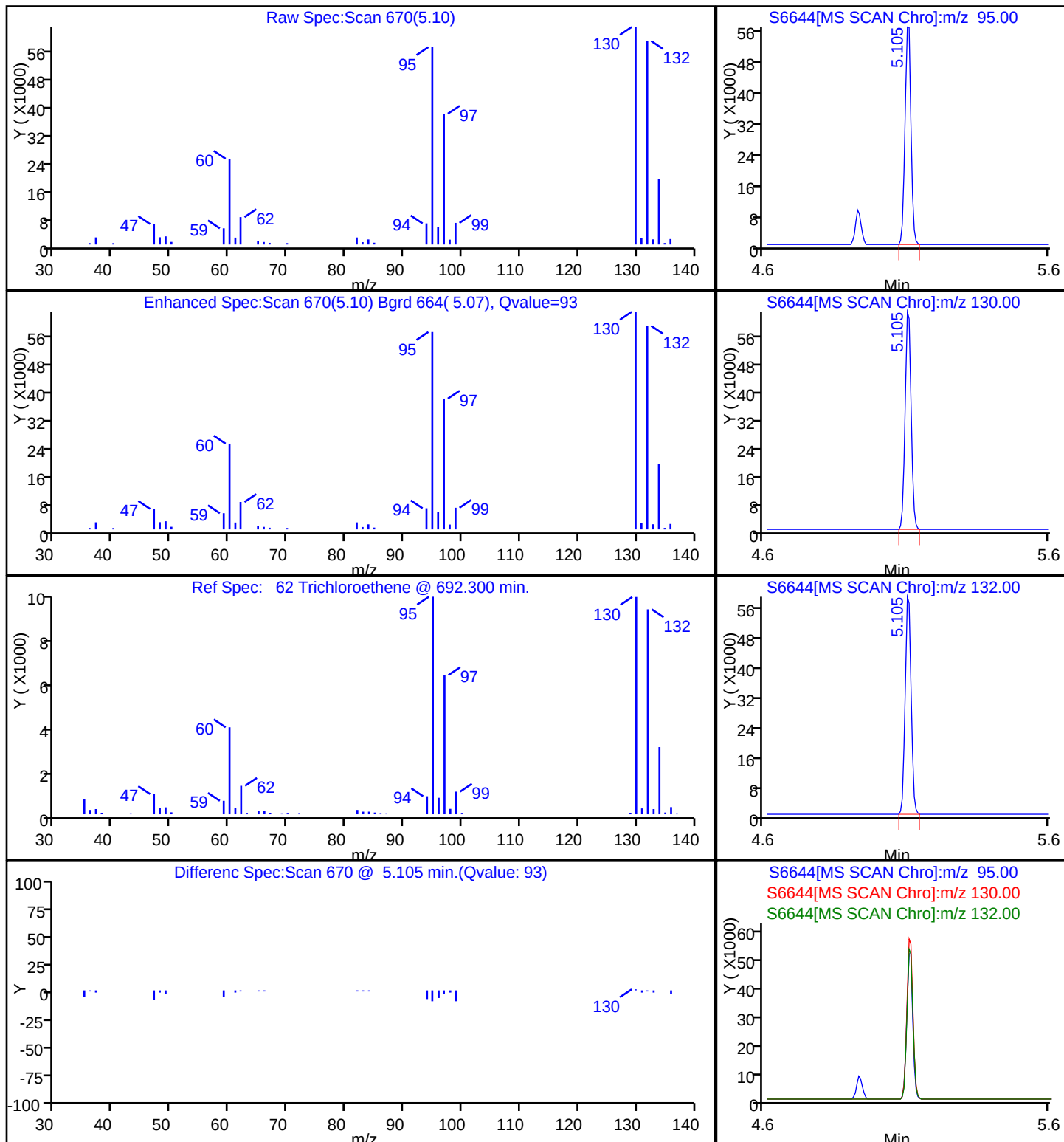
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



Report Date: 06-Oct-2011 07:49:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6644.D

Injection Date: 05-Oct-2011 15:52:30

Limit Group: MV - 8260B ICAL

Client ID: MW-3

Instrument ID: HP5973S

Lims Batch ID: 34016

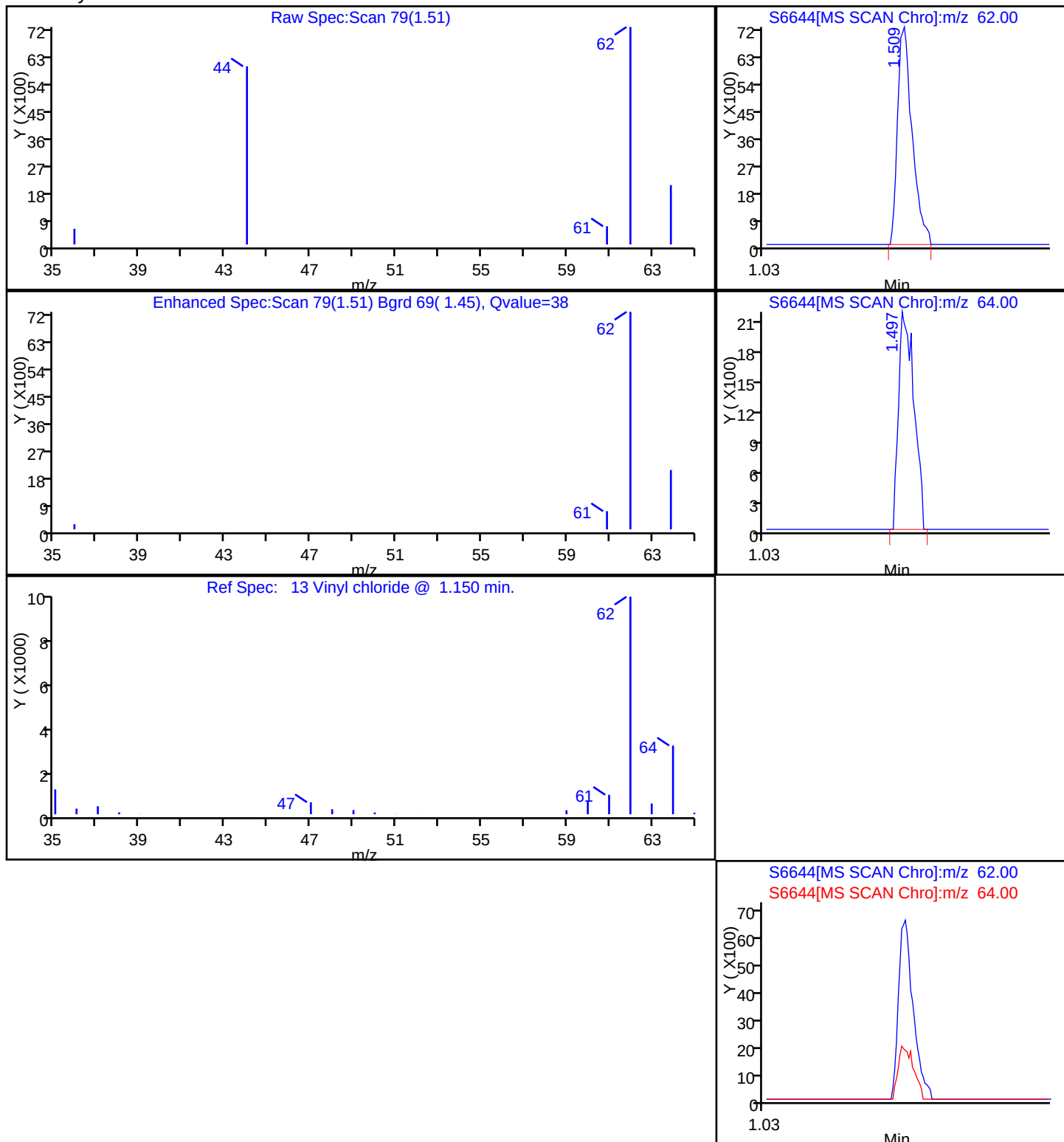
Lims Sample ID: 18

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-7 Lab Sample ID: 480-10504-14

Matrix: Water Lab File ID: S6645.D

Analysis Method: 8260B Date Collected: 09/28/2011 18:00

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	0.83	J	1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-7 Lab Sample ID: 480-10504-14
 Matrix: Water Lab File ID: S6645.D
 Analysis Method: 8260B Date Collected: 09/28/2011 18:00
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.58	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	111		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6645.D
 Lims ID: 480-10504-A-14 Client ID: PZ-7
 Inject. Date: 05-Oct-2011 16:14:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-14
 Misc. Info.: 480-0006450-019 =480-0006450-019
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 19
 Lims Batch ID: 34016 Lims Sample ID: 19
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:49:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	468694	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	212822	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	221170	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	77132	29.3	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	488479	29.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	87	147535	27.8	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	21	7259	0.8251	
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	43	3013	0.5846	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:49:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6645.D

Injection Date: 05-Oct-2011 16:14:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-7

Instrument ID: HP5973S

Lims Batch ID: 34016

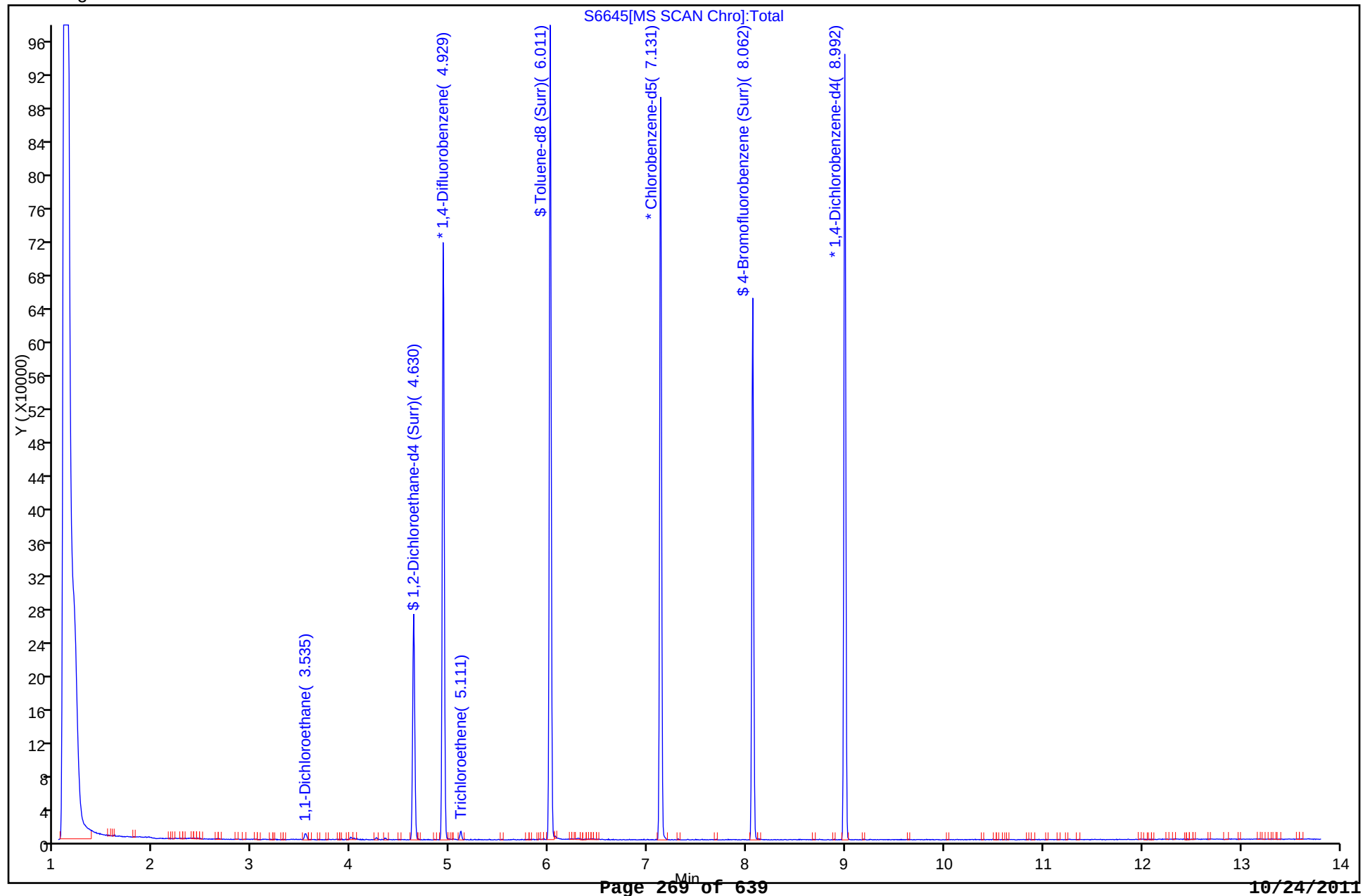
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:49:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6645.D

Injection Date: 05-Oct-2011 16:14:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-7

Instrument ID: HP5973S

Lims Batch ID: 34016

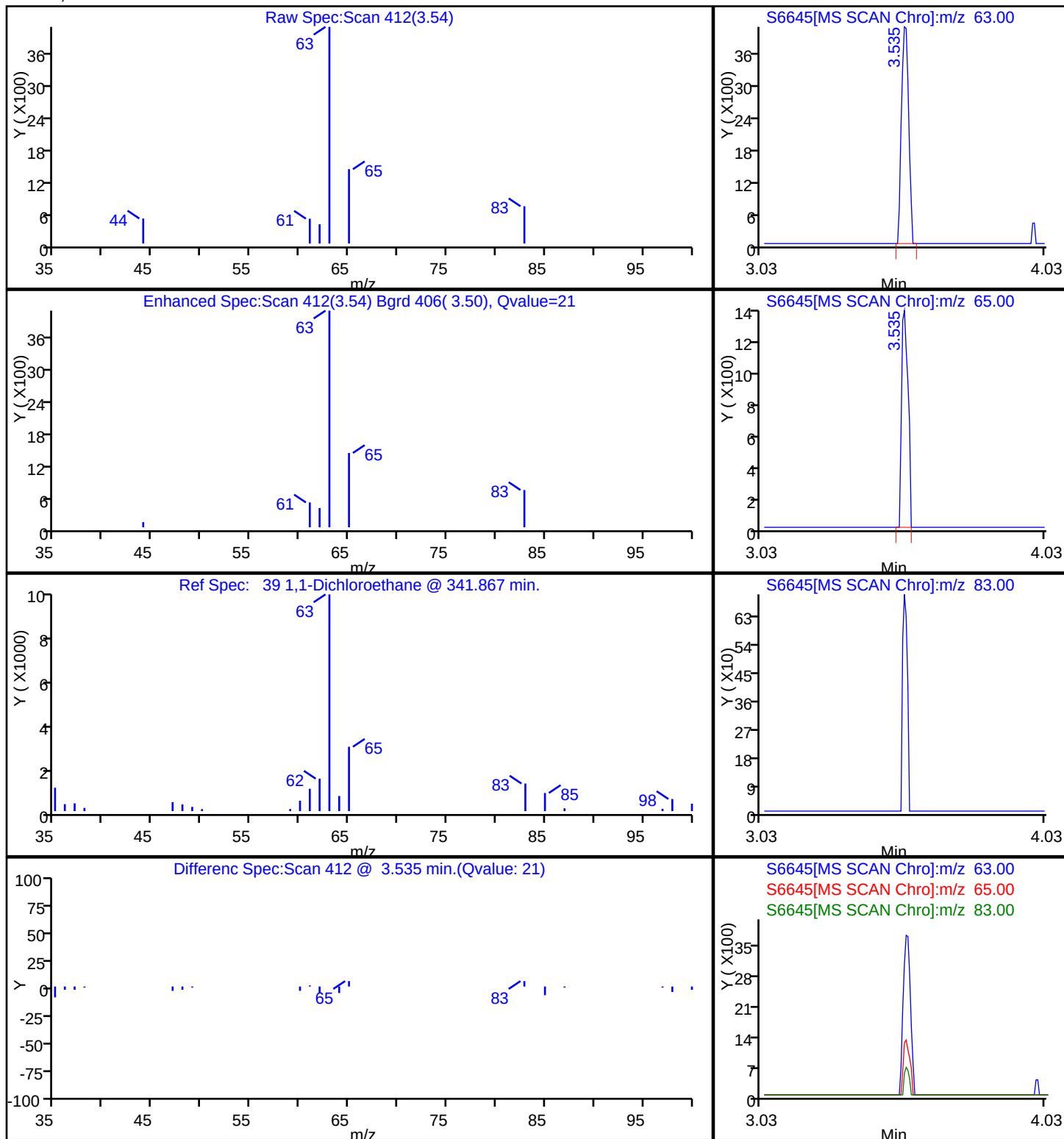
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 07:49:31

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6645.D

Injection Date: 05-Oct-2011 16:14:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-7

Instrument ID: HP5973S

Lims Batch ID: 34016

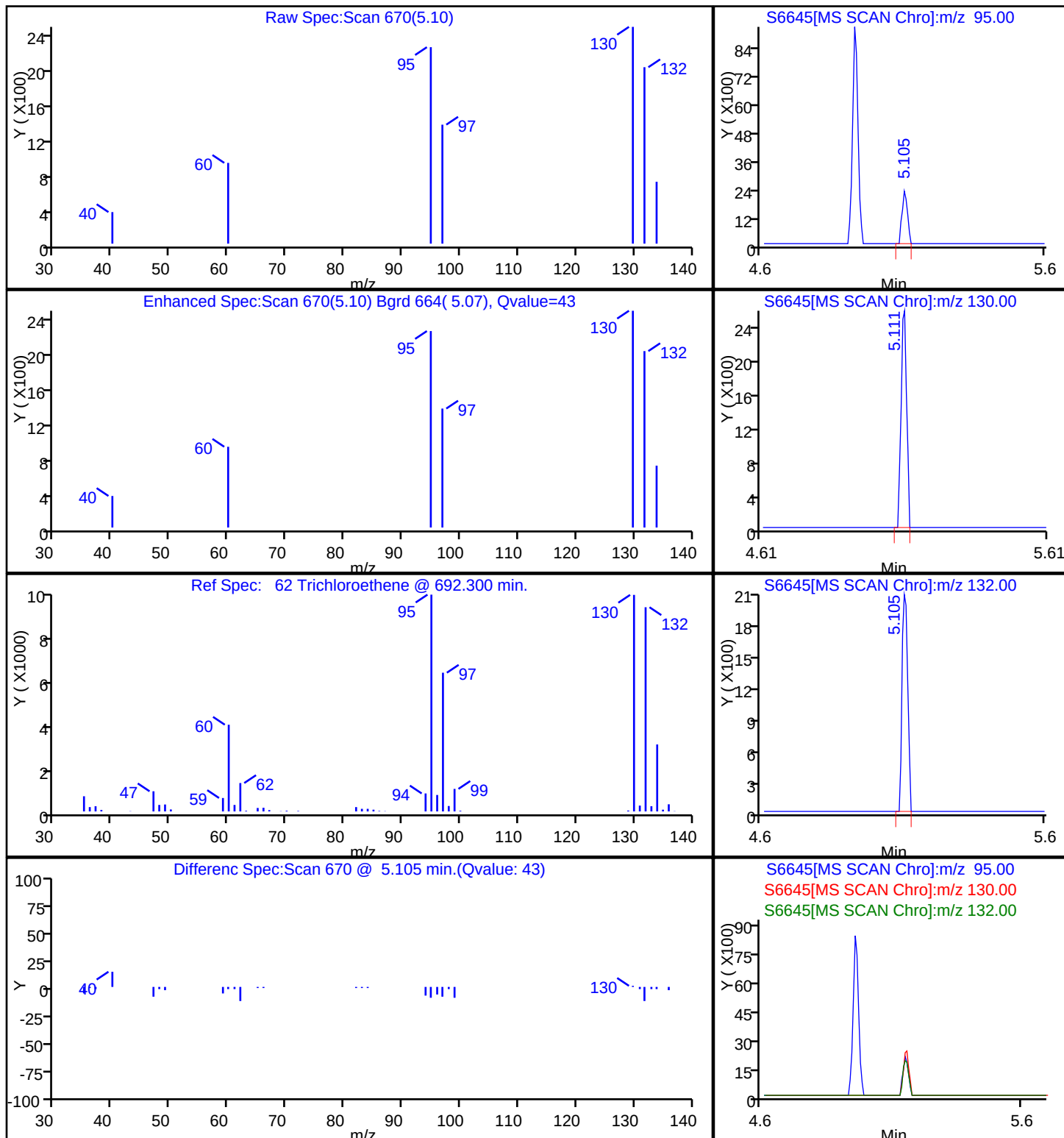
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-6 Lab Sample ID: 480-10504-15

Matrix: Water Lab File ID: S6646.D

Analysis Method: 8260B Date Collected: 09/28/2011 18:25

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:36

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	20		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-6 Lab Sample ID: 480-10504-15
 Matrix: Water Lab File ID: S6646.D
 Analysis Method: 8260B Date Collected: 09/28/2011 18:25
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:36
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	72		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	20		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	117		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6646.D
 Lims ID: 480-10504-A-15 Client ID: PZ-6
 Inject. Date: 05-Oct-2011 16:36:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-15
 Misc. Info.: 480-0006450-020 =480-0006450-020
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 20
 Lims Batch ID: 34016 Lims Sample ID: 20
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 07:49:52

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	464941	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	210474	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	216628	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	77473	29.7	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	486825	29.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	146688	27.9	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.528	1.504	0.024	22	3001	0.5972	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	108949	19.5	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	92	104360	20.4	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	91	378403	71.9	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 07:49:52

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6646.D

Injection Date: 05-Oct-2011 16:36:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-6

Instrument ID: HP5973S

Lims Batch ID: 34016

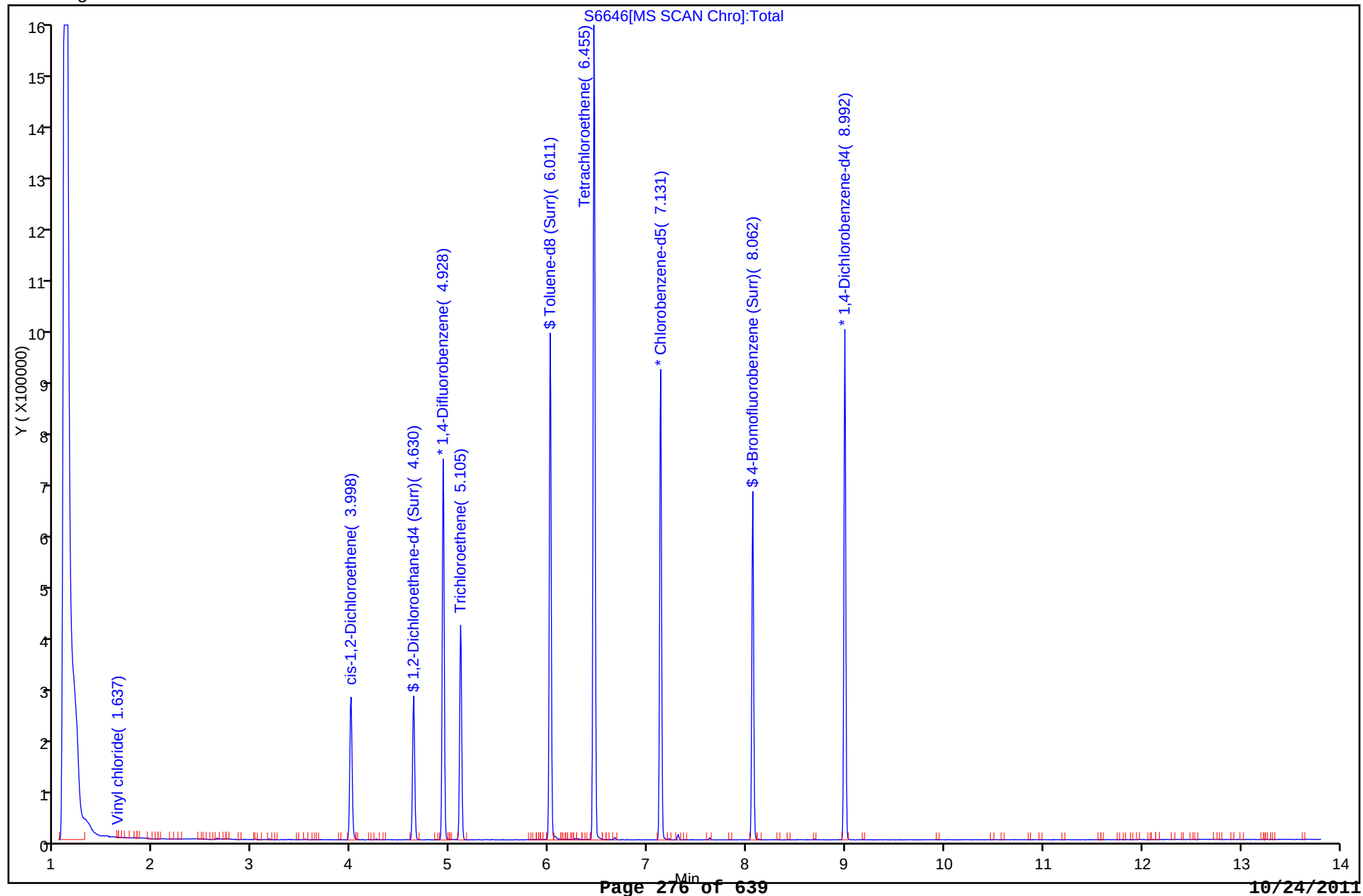
Lims Sample ID: 20

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 07:49:52

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6646.D

Injection Date: 05-Oct-2011 16:36:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-6

Instrument ID: HP5973S

Lims Batch ID: 34016

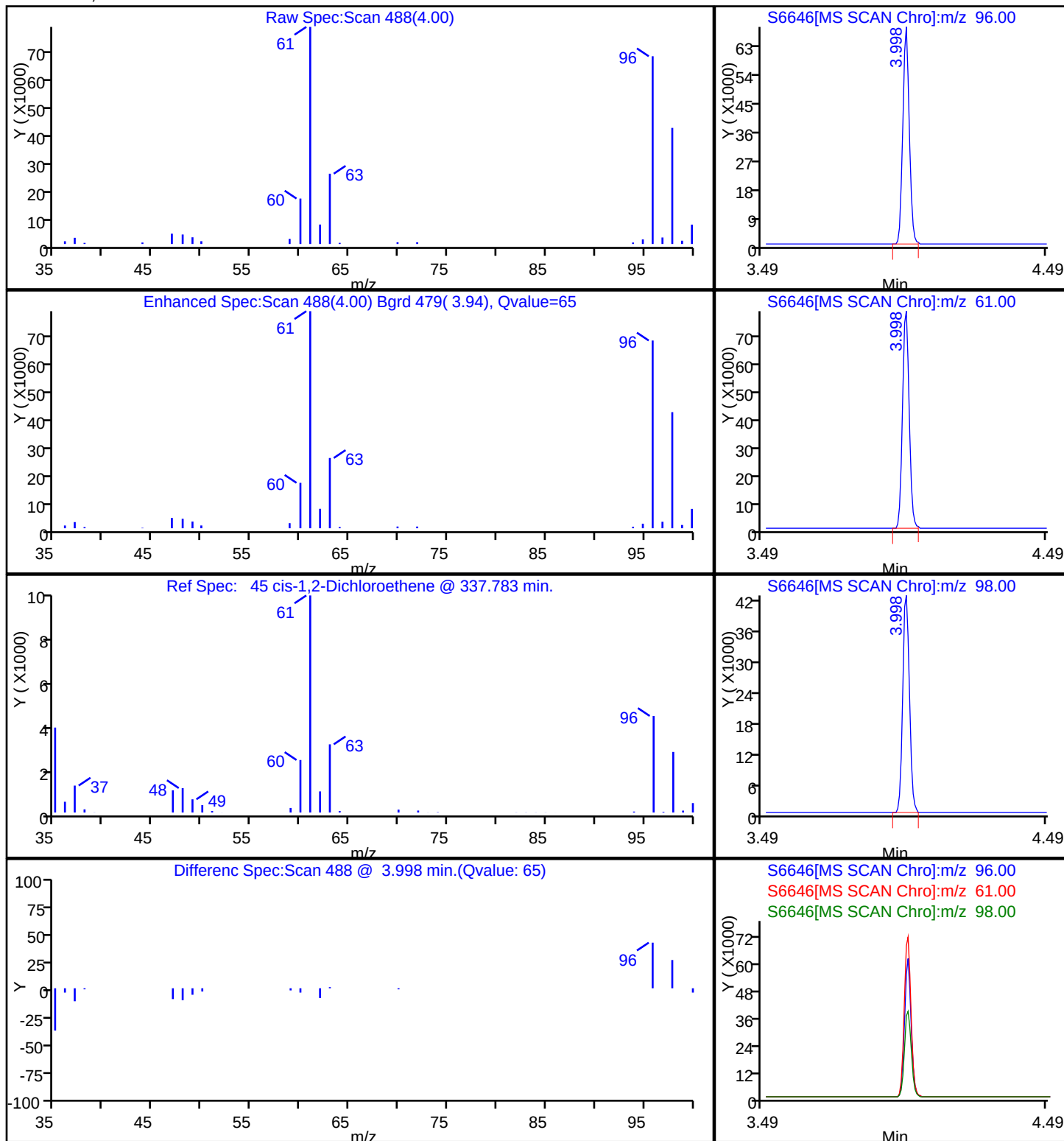
Lims Sample ID: 20

Operator ID: DHC

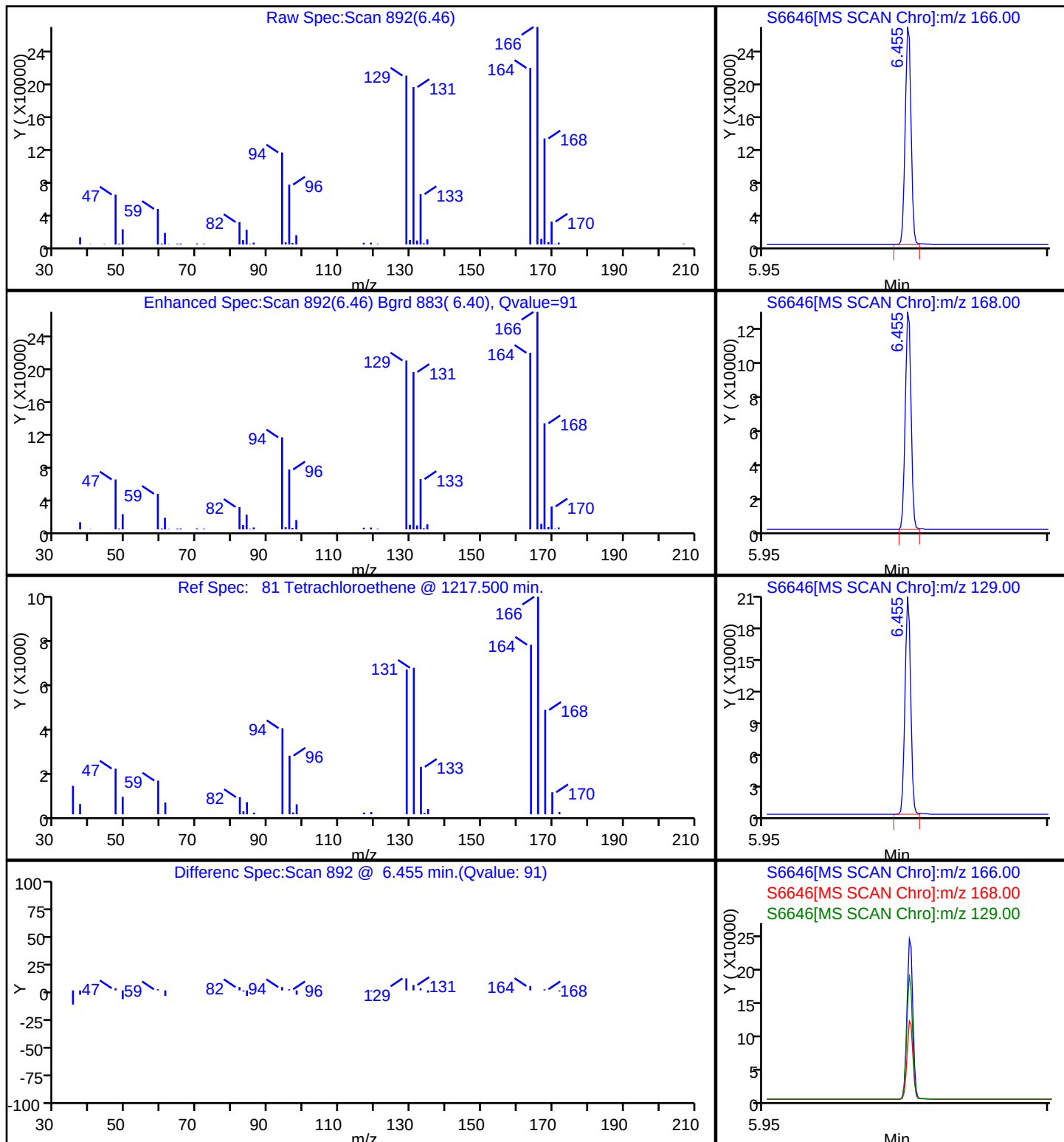
Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



81 Tetrachloroethene



Report Date: 06-Oct-2011 07:49:52

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6646.D

Injection Date: 05-Oct-2011 16:36:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-6

Instrument ID: HP5973S

Lims Batch ID: 34016

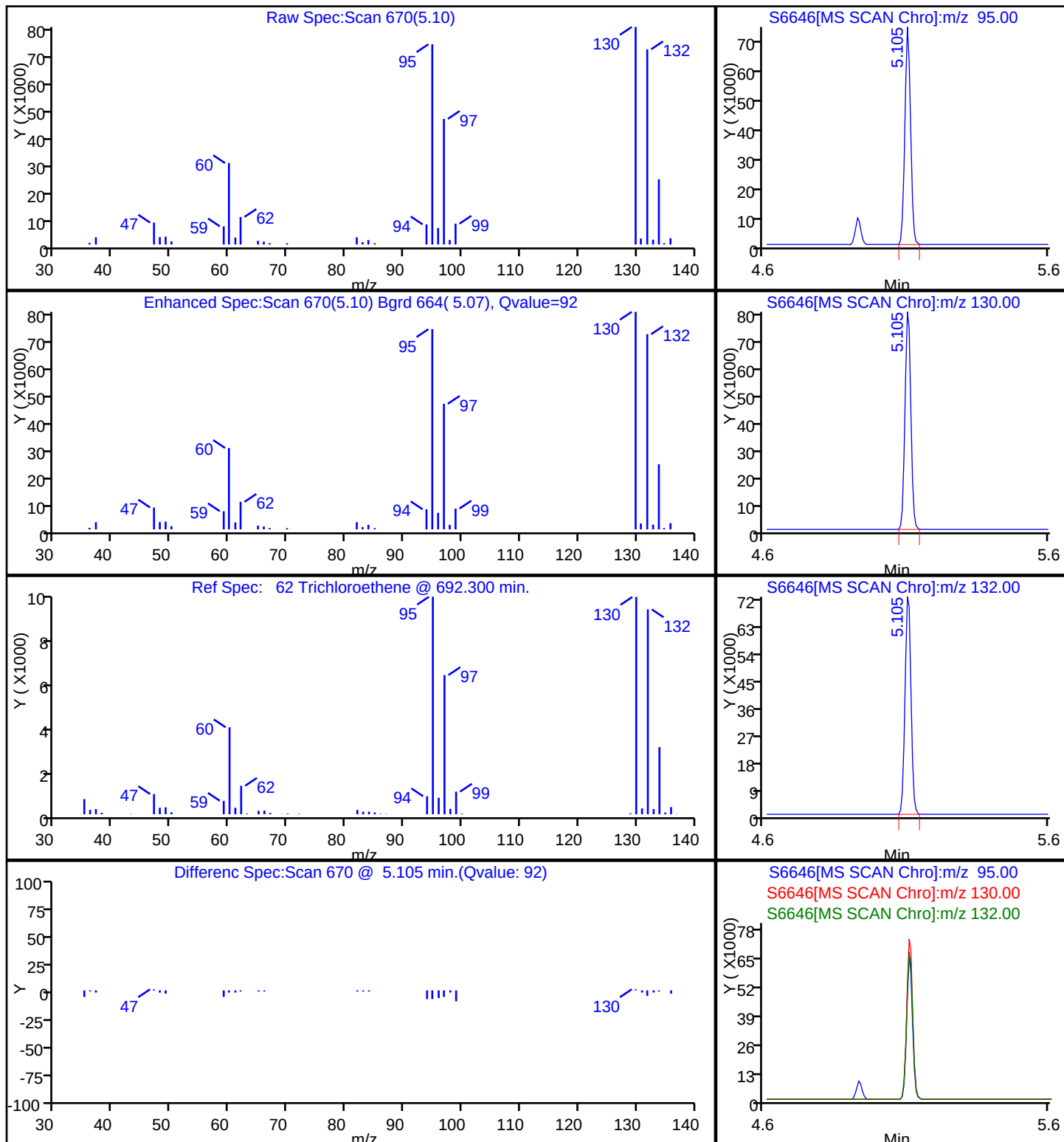
Lims Sample ID: 20

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-5 Lab Sample ID: 480-10504-16

Matrix: Water Lab File ID: S6647.D

Analysis Method: 8260B Date Collected: 09/28/2011 18:50

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:58

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	3.1	J	10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	53		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-5 Lab Sample ID: 480-10504-16
 Matrix: Water Lab File ID: S6647.D
 Analysis Method: 8260B Date Collected: 09/28/2011 18:50
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 16:58
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	59		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	120	E	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	0.70	J	2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	127		66-137
2037-26-5	Toluene-d8 (Surr)	121		71-126
460-00-4	4-Bromofluorobenzene (Surr)	119		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D
 Lims ID: 480-10504-A-16 Client ID: PZ-5
 Inject. Date: 05-Oct-2011 16:58:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-16
 Misc. Info.: 480-0006450-021 =480-0006450-021
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 21
 Lims Batch ID: 34016 Lims Sample ID: 21
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 08:10:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	441005	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	203867	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	214959	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	78107	31.7	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	484013	30.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	151047	29.7	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.647	2.647	0.0	70	5208	3.06	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	281030	53.1	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	578804	119.4	E
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.456	6.456	0.0	92	300113	58.9	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	81	6509	0.7044	
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1				0		0.7044	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Report Date: 06-Oct-2011 08:10:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D

Injection Date: 05-Oct-2011 16:58:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34016

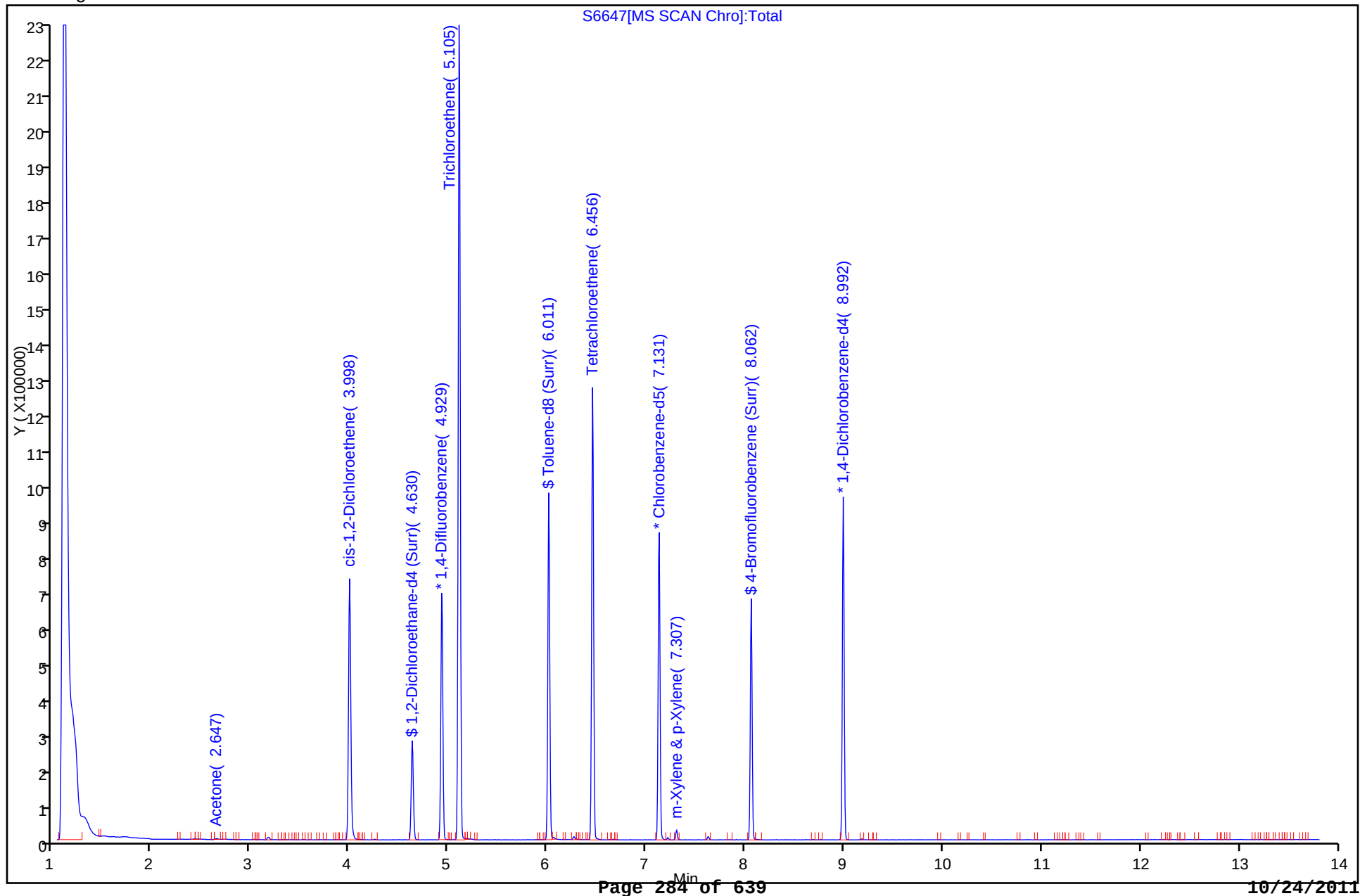
Lims Sample ID: 21

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 08:10:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D

Injection Date: 05-Oct-2011 16:58:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34016

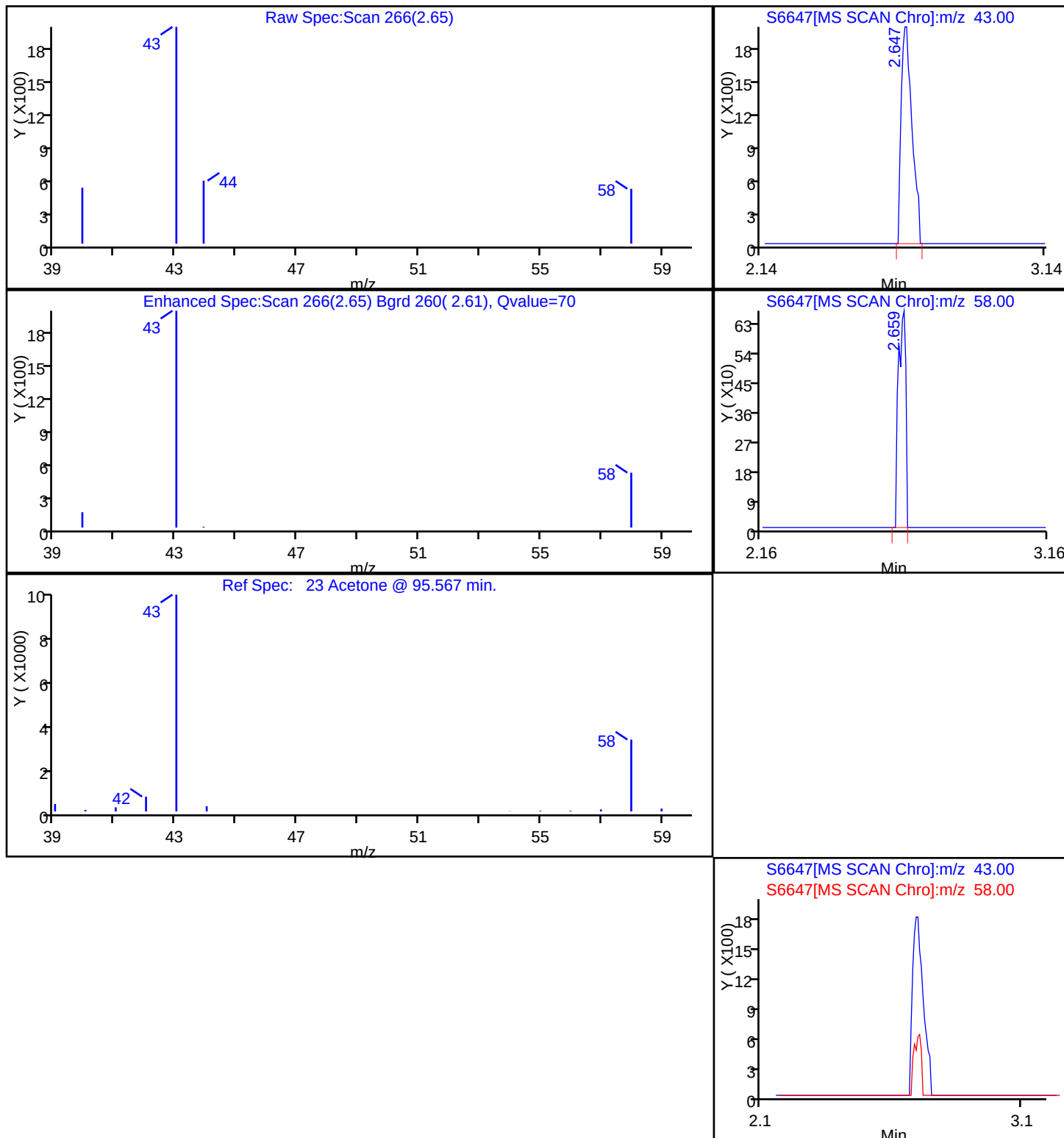
Lims Sample ID: 21

Operator ID: DHC

Column Type: ZB-624

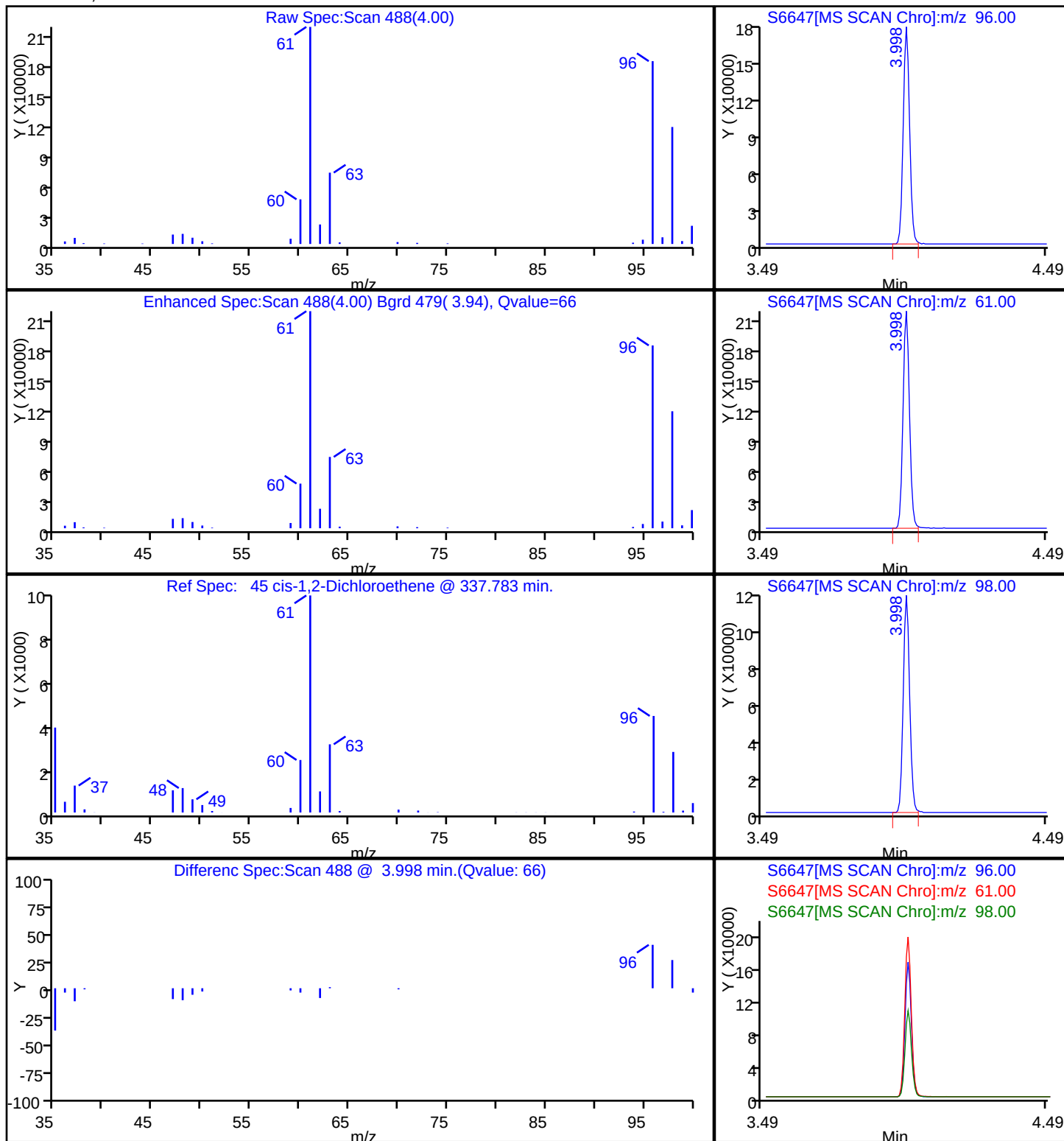
Column Dia: 0.25 mm

23 Acetone

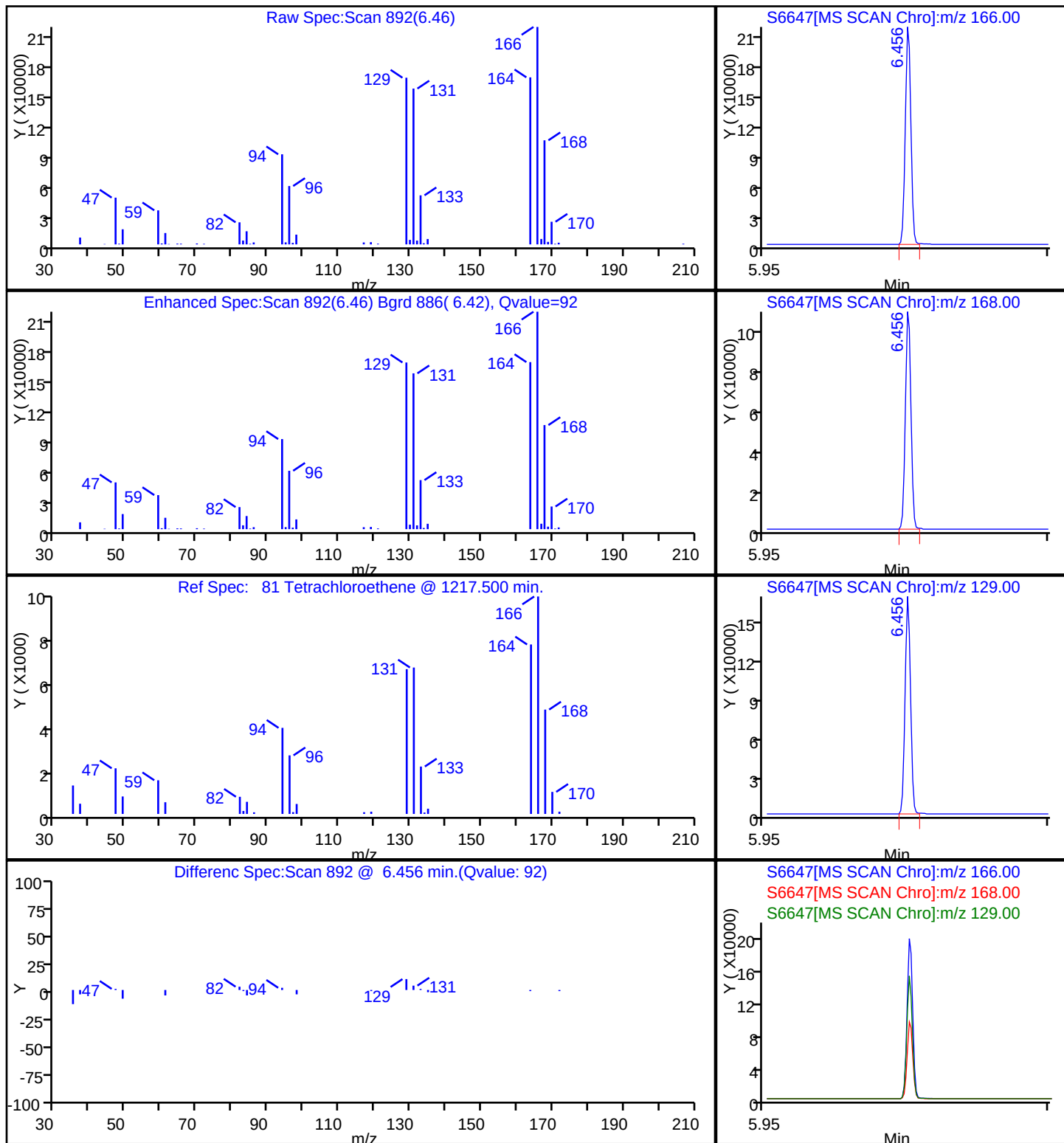


Report Date: 06-Oct-2011 08:10:08
Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D
Injection Date: 05-Oct-2011 16:58:30
Client ID: PZ-5
Lims Batch ID: 34016
Operator ID: DHC
Column Type: ZB-624
45 cis-1,2-Dichloroethene

Chrom Revision: 2.0 01-Sep-2011 14:10:00
Limit Group: MV - 8260B ICAL
Instrument ID: HP5973S
Lims Sample ID: 21
Column Dia: 0.25 mm



81 Tetrachloroethene



Report Date: 06-Oct-2011 08:10:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D

Injection Date: 05-Oct-2011 16:58:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34016

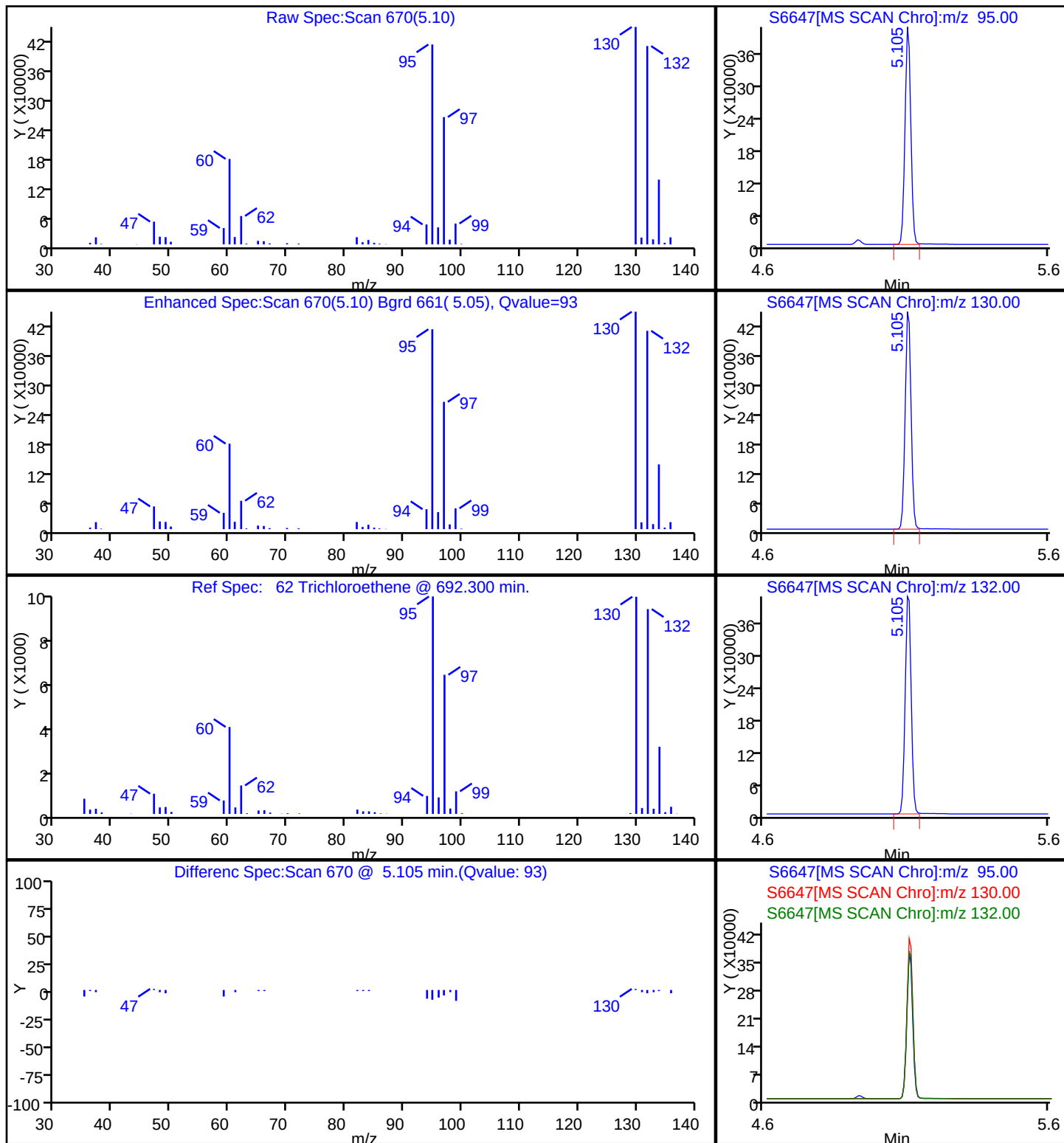
Lims Sample ID: 21

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



Report Date: 06-Oct-2011 08:10:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6647.D

Injection Date: 05-Oct-2011 16:58:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34016

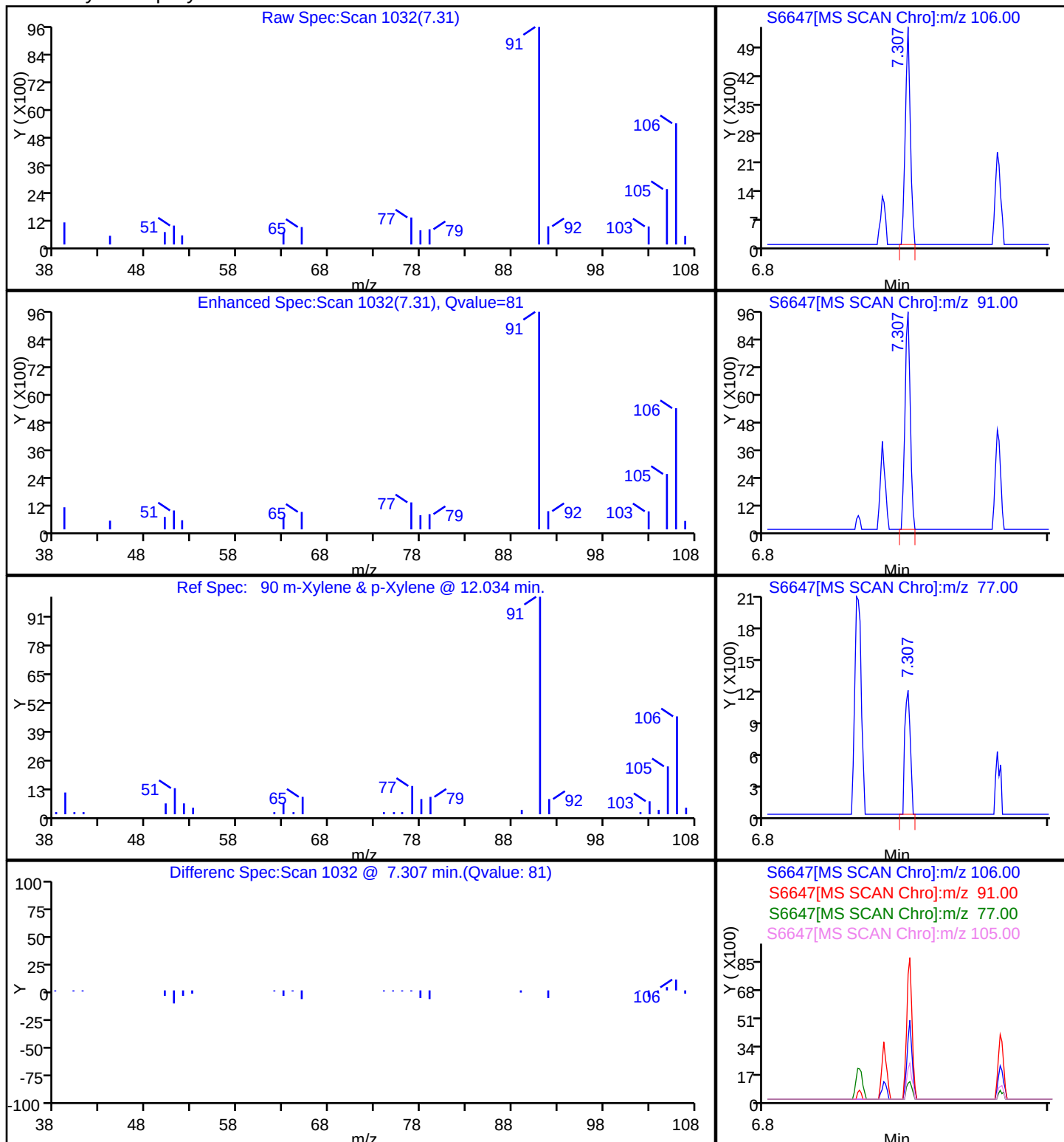
Lims Sample ID: 21

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

90 m-Xylene & p-Xylene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-5 DL Lab Sample ID: 480-10504-16 DL

Matrix: Water Lab File ID: S6672.D

Analysis Method: 8260B Date Collected: 09/28/2011 18:50

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:27

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
591-78-6	2-Hexanone	ND		10	2.5
78-93-3	2-Butanone (MEK)	ND		20	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	43		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-5 DL Lab Sample ID: 480-10504-16 DL
 Matrix: Water Lab File ID: S6672.D
 Analysis Method: 8260B Date Collected: 09/28/2011 18:50
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:27
 Soil Aliquot Vol: _____ Dilution Factor: 2
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.0	1.0
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	ND		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	45		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	91		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	115		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6672.D
 Lims ID: 480-10504-B-16 Client ID: PZ-5
 Inject. Date: 06-Oct-2011 17:27:30 Dil. Factor: 2.0000
 Sample Type: Client
 Sample ID: 480-10504-B-16
 Misc. Info.: 480-0006479-019 =480-0006479-019
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 19
 Lims Batch ID: 34202 Lims Sample ID: 19
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:36:05 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 09:39:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	419504	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	192109	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	201786	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	70494	29.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	435726	28.7	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	88	135665	28.3	
10 Dichlorodifluoromethane	85		1.266					
12 Chloromethane	50		1.406					
13 Vinyl chloride	62		1.510					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.881					
17 Trichlorofluoromethane	101		2.094					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.732					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	108388	21.5	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.345					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	92	209315	45.4	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.300					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	91	107238	22.3	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 07-Oct-2011 09:39:11

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6672.D

Injection Date: 06-Oct-2011 17:27:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34202

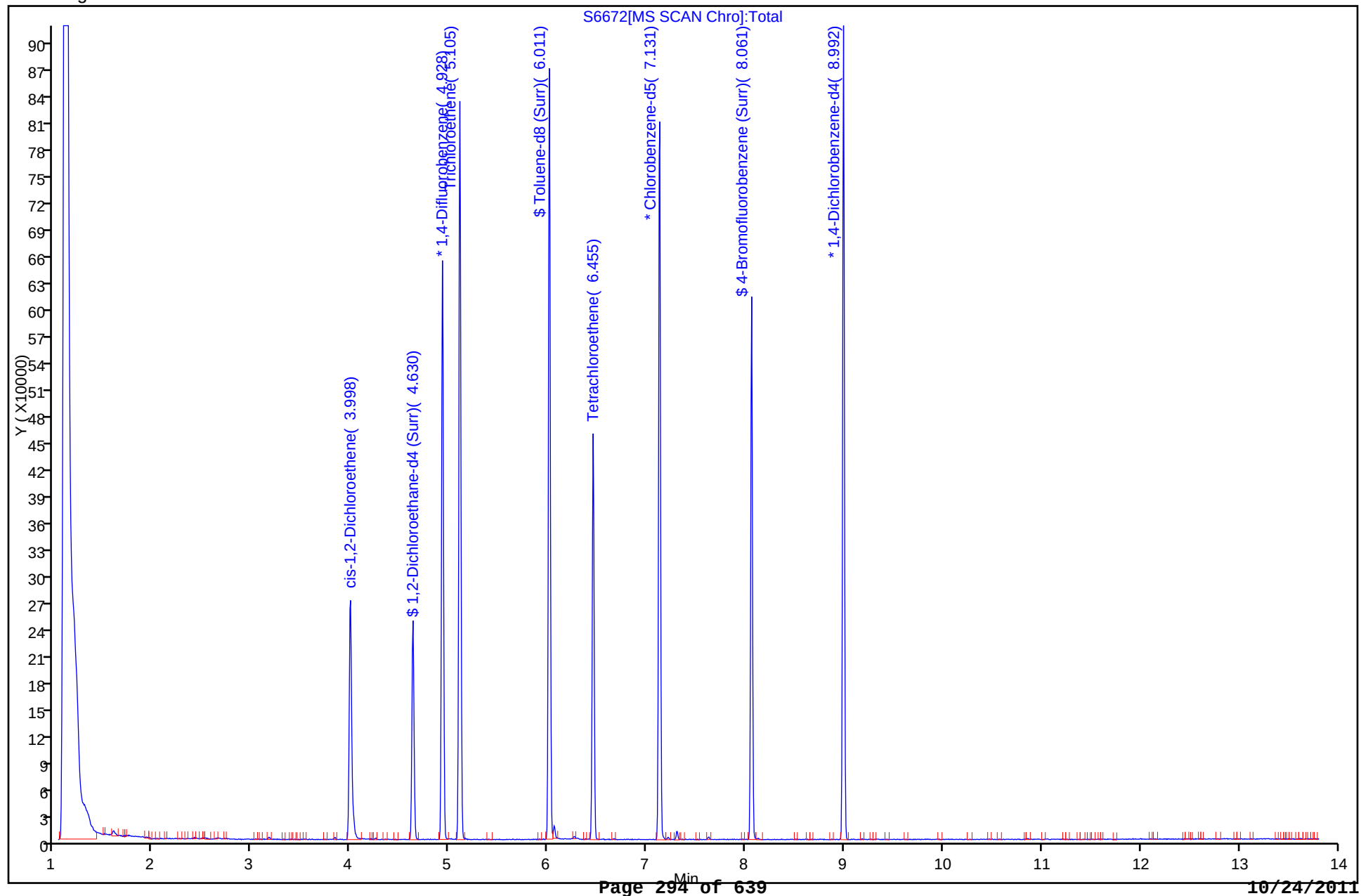
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 07-Oct-2011 09:39:11

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6672.D

Injection Date: 06-Oct-2011 17:27:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34202

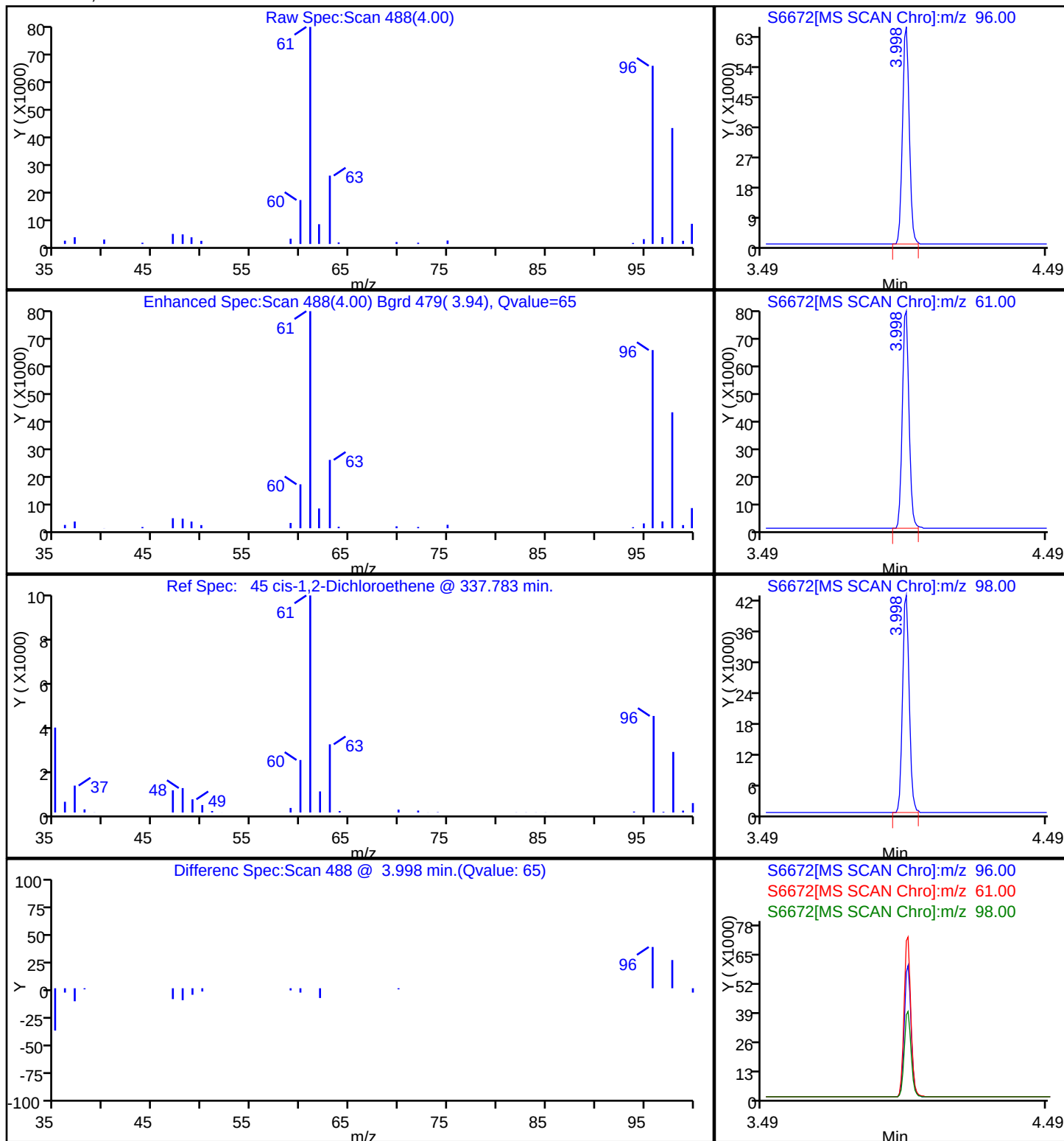
Lims Sample ID: 19

Operator ID: DHC

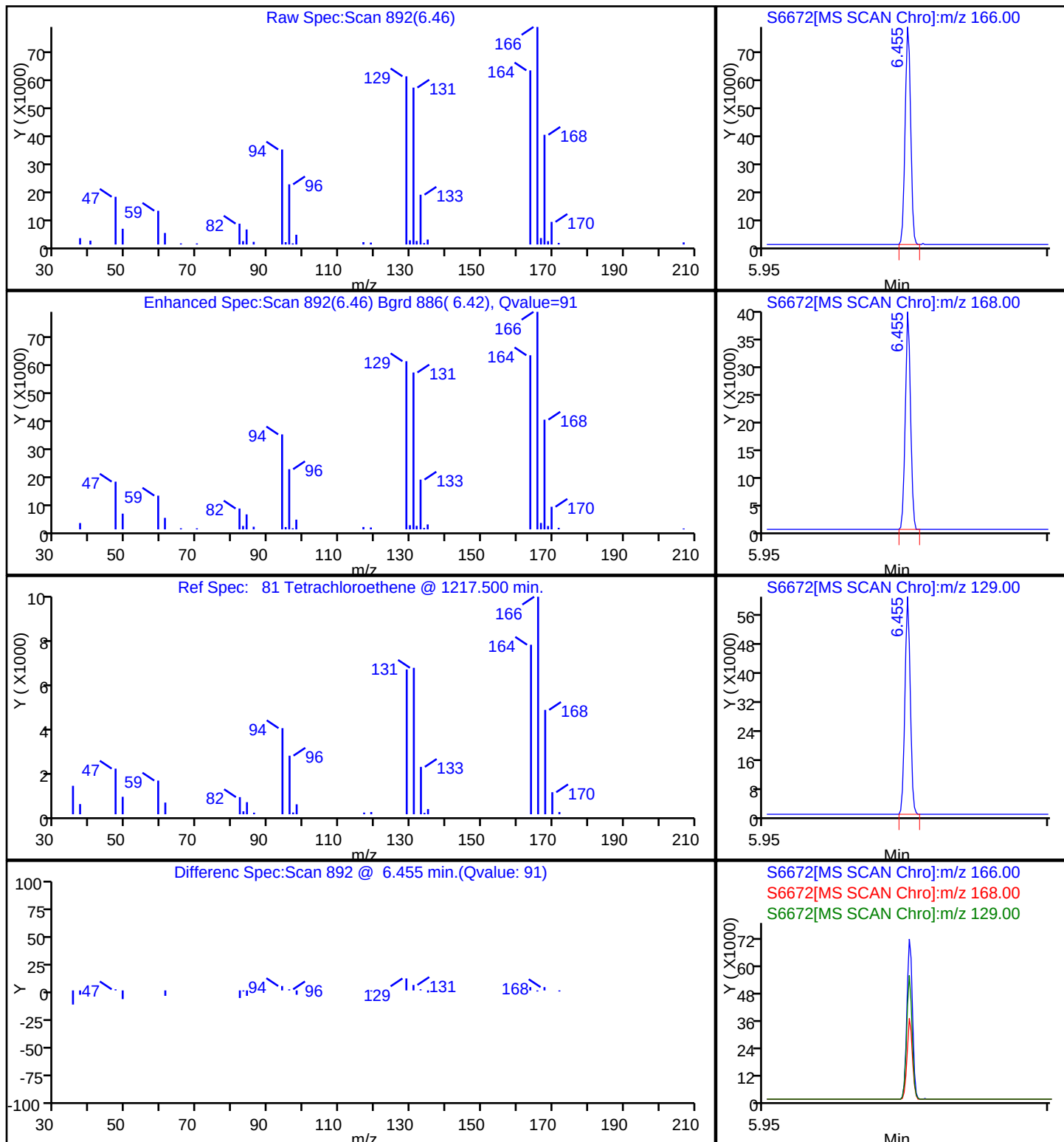
Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



81 Tetrachloroethene



Report Date: 07-Oct-2011 09:39:11

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6672.D

Injection Date: 06-Oct-2011 17:27:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-5

Instrument ID: HP5973S

Lims Batch ID: 34202

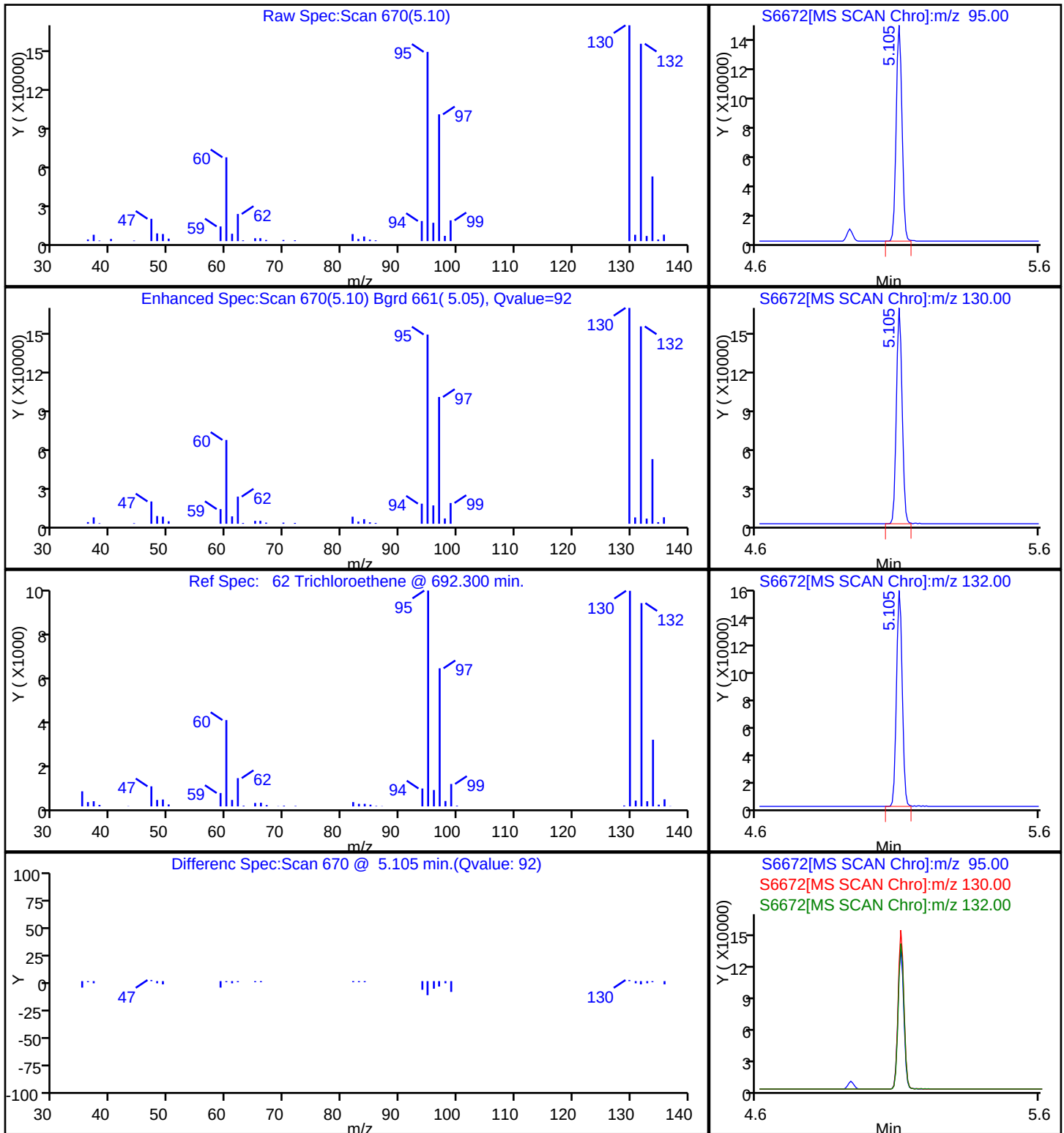
Lims Sample ID: 19

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-8 Lab Sample ID: 480-10504-17

Matrix: Water Lab File ID: S6648.D

Analysis Method: 8260B Date Collected: 09/28/2011 19:15

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 17:21

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	4.8		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	77		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-8 Lab Sample ID: 480-10504-17
 Matrix: Water Lab File ID: S6648.D
 Analysis Method: 8260B Date Collected: 09/28/2011 19:15
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 17:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	350	E	1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	310	E	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	114		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6648.D
 Lims ID: 480-10504-A-17 Client ID: PZ-8
 Inject. Date: 05-Oct-2011 17:21:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-17
 Misc. Info.: 480-0006450-022 =480-0006450-022
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 22
 Lims Batch ID: 34016 Lims Sample ID: 22
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: HillL

Date: 06-Oct-2011 08:10:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	449396	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	206354	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	211386	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.001	96	75391	29.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	465013	28.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	89	145719	28.3	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.542	3.535	0.007	68	40472	4.80	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	67	414459	76.9	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	1517844	307.2	E
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.462	6.456	0.006	91	1809020	350.6	E
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 08:10:29

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6648.D

Injection Date: 05-Oct-2011 17:21:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34016

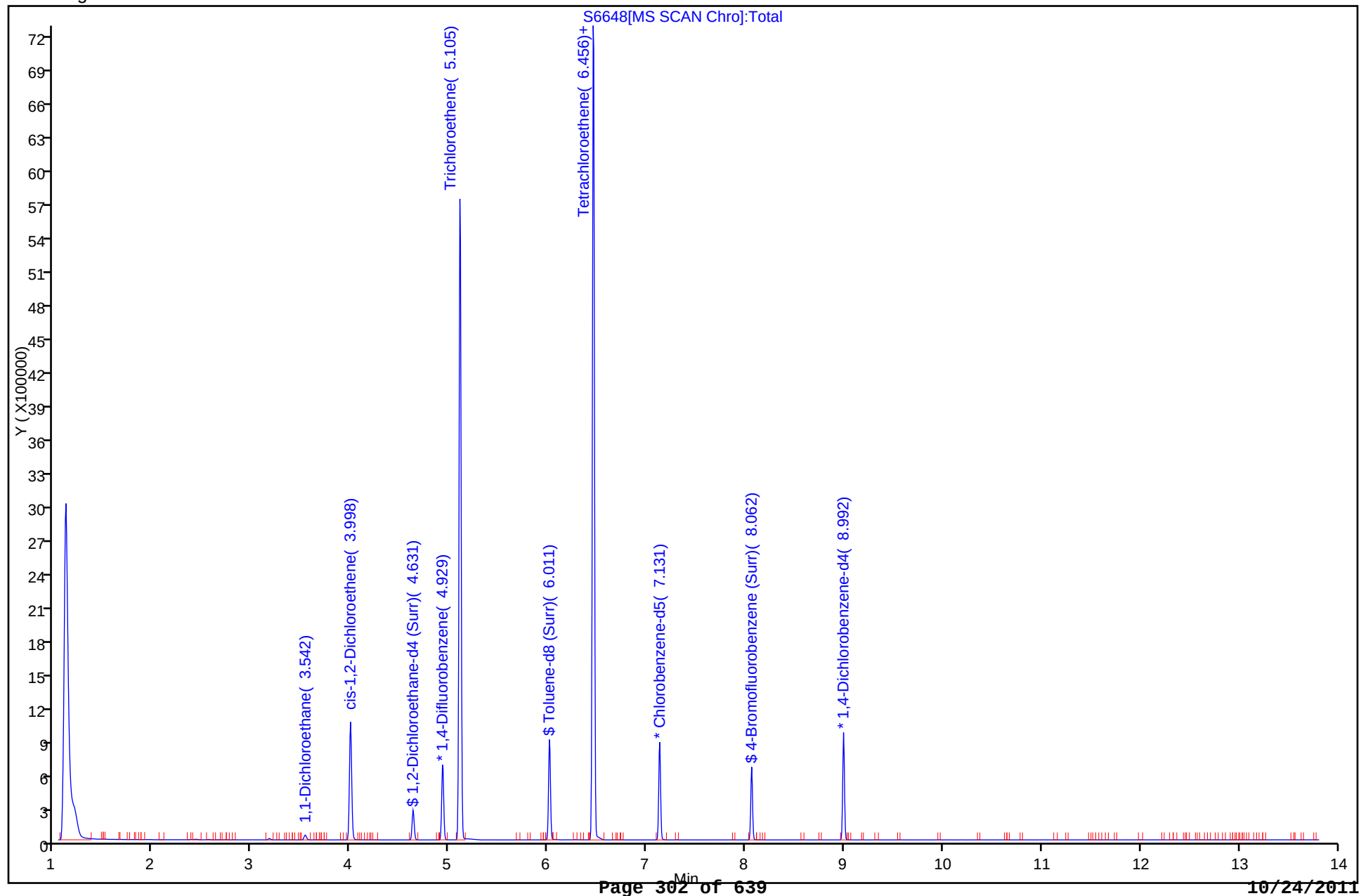
Lims Sample ID: 22

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 08:10:29

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6648.D

Injection Date: 05-Oct-2011 17:21:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34016

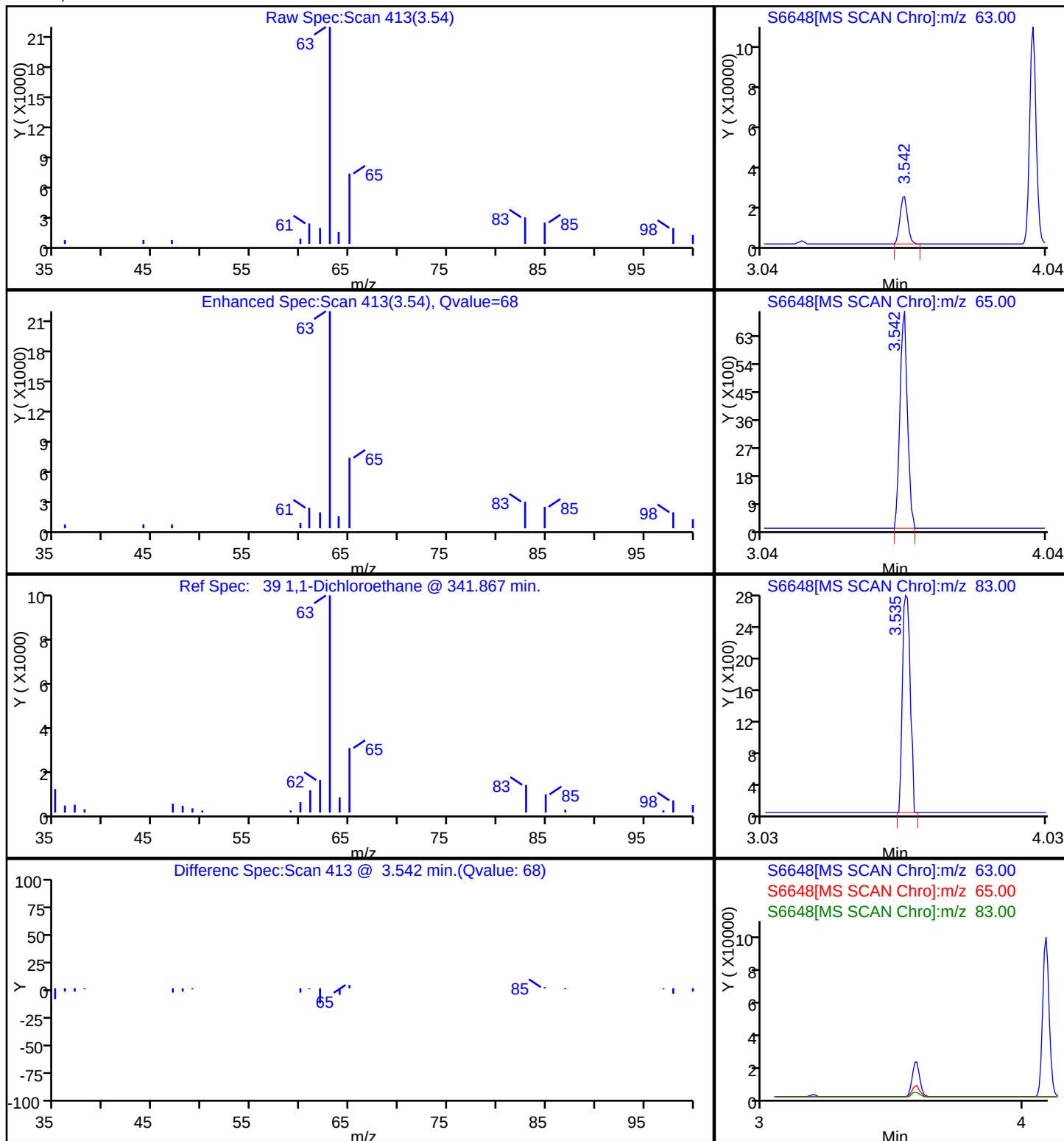
Lims Sample ID: 22

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 08:10:29

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6648.D

Injection Date: 05-Oct-2011 17:21:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34016

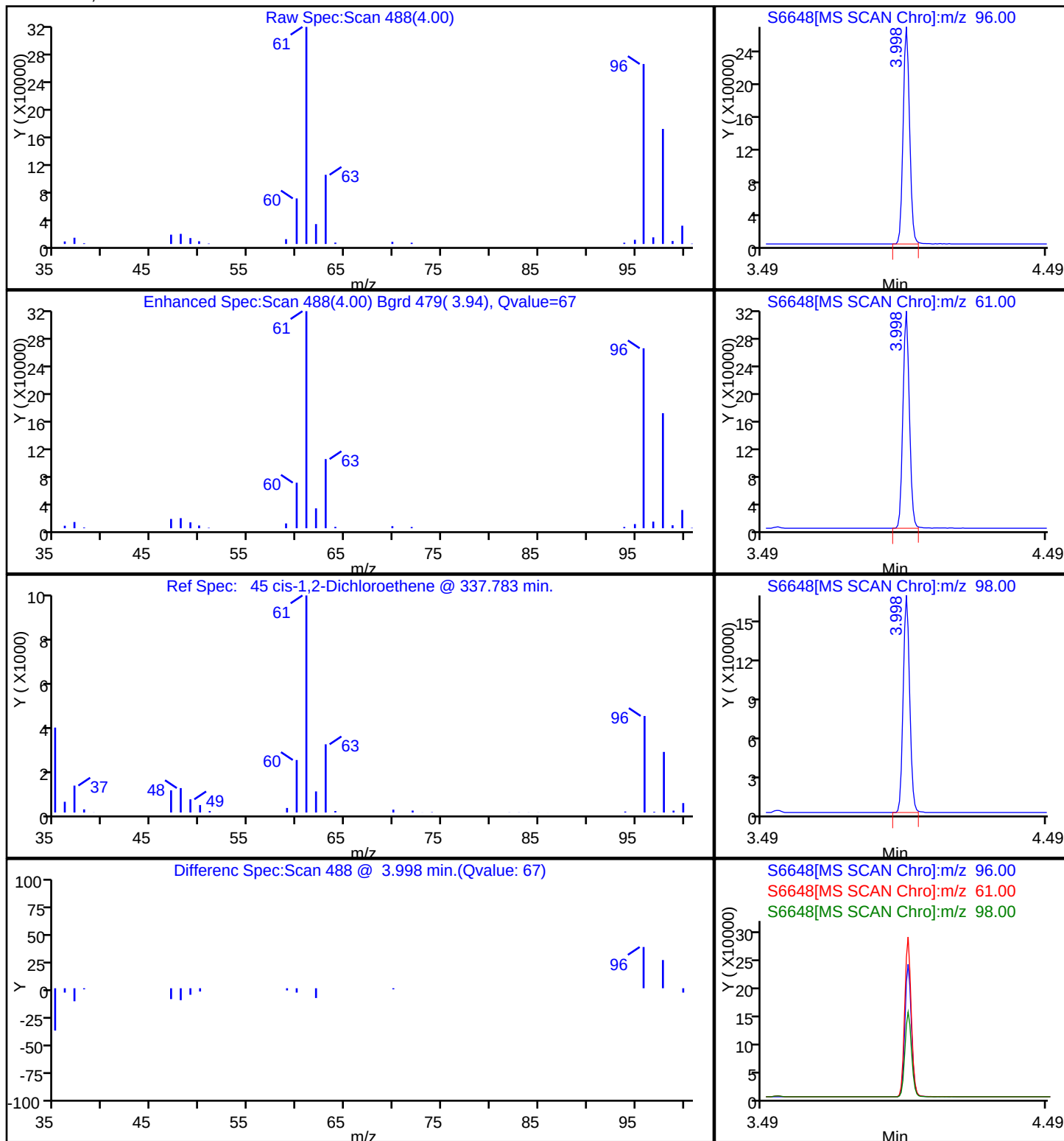
Lims Sample ID: 22

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 08:10:29

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6648.D

Injection Date: 05-Oct-2011 17:21:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34016

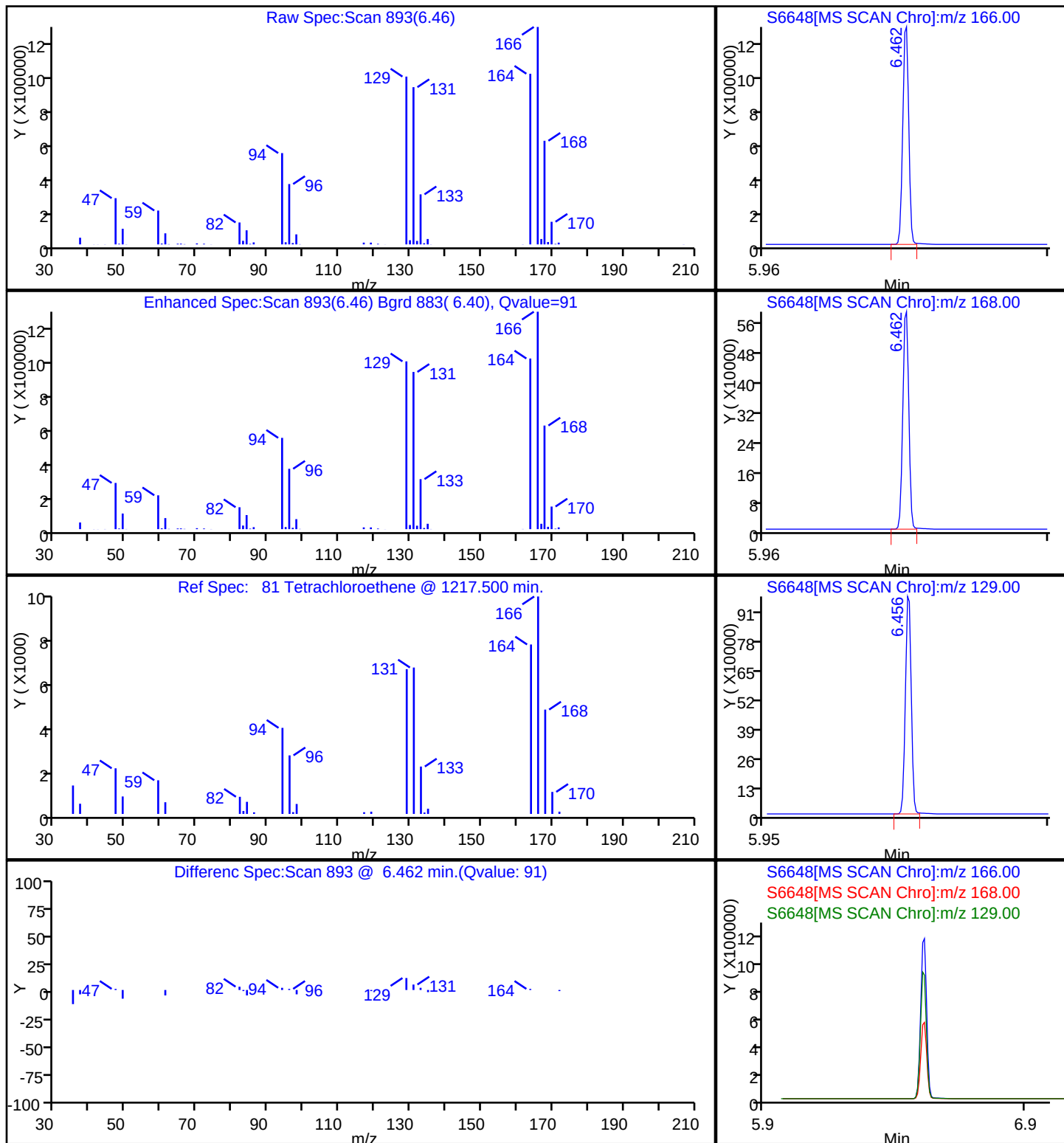
Lims Sample ID: 22

Operator ID: DHC

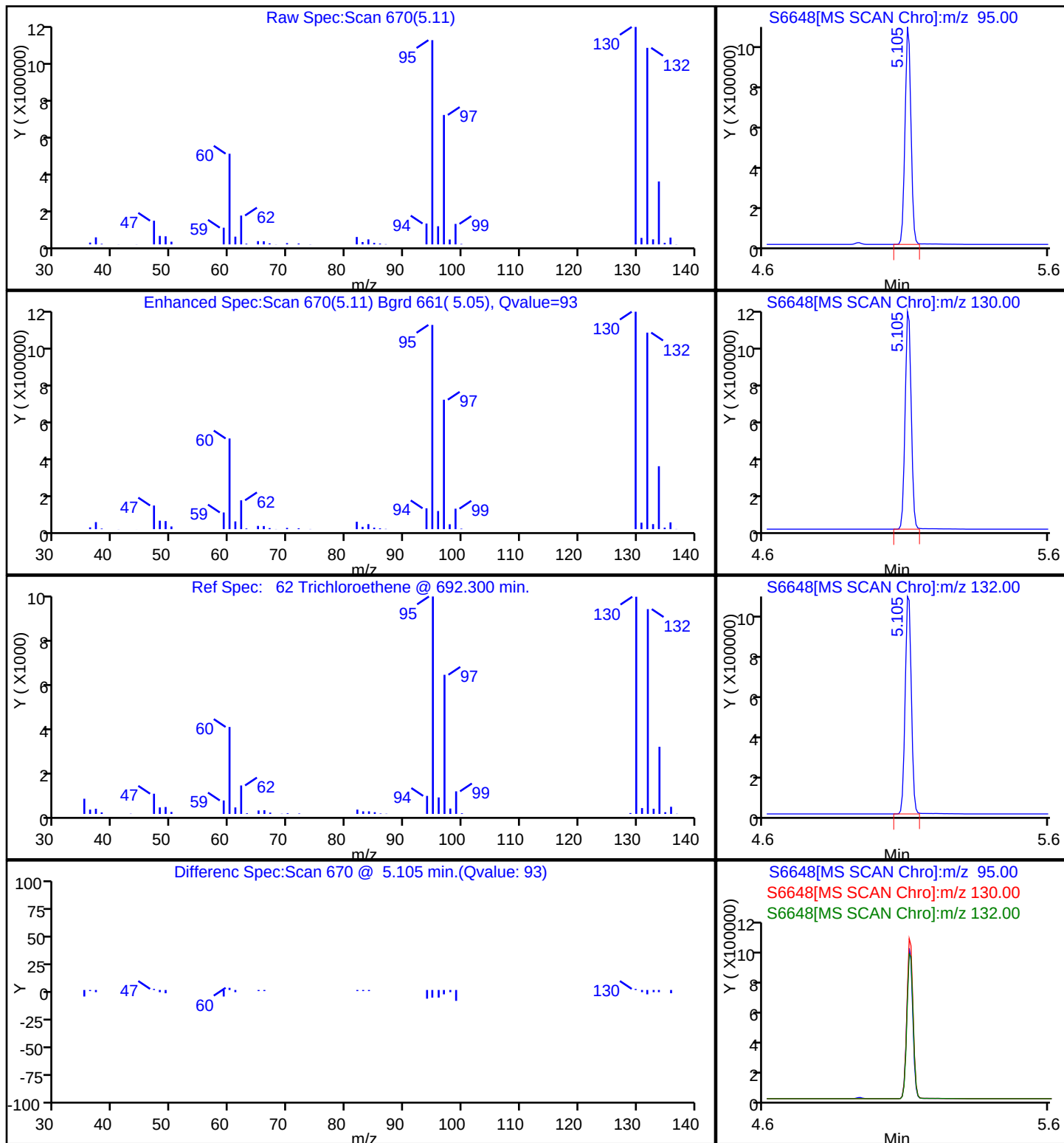
Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-8 DL Lab Sample ID: 480-10504-17 DL

Matrix: Water Lab File ID: S6673.D

Analysis Method: 8260B Date Collected: 09/28/2011 19:15

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:49

Soil Aliquot Vol: _____ Dilution Factor: 5

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	4.1
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	1.2
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6
75-34-3	1,1-Dichloroethane	4.3	J	5.0	1.9
75-35-4	1,1-Dichloroethene	ND		5.0	1.5
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	2.1
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.0
106-93-4	1,2-Dibromoethane	ND		5.0	3.7
95-50-1	1,2-Dichlorobenzene	ND		5.0	4.0
107-06-2	1,2-Dichloroethane	ND		5.0	1.1
78-87-5	1,2-Dichloropropane	ND		5.0	3.6
541-73-1	1,3-Dichlorobenzene	ND		5.0	3.9
106-46-7	1,4-Dichlorobenzene	ND		5.0	4.2
591-78-6	2-Hexanone	ND		25	6.2
78-93-3	2-Butanone (MEK)	ND		50	6.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	11
67-64-1	Acetone	ND		50	15
71-43-2	Benzene	ND		5.0	2.1
75-27-4	Bromodichloromethane	ND		5.0	2.0
75-25-2	Bromoform	ND		5.0	1.3
74-83-9	Bromomethane	ND		5.0	3.5
75-15-0	Carbon disulfide	ND		5.0	0.95
56-23-5	Carbon tetrachloride	ND		5.0	1.4
108-90-7	Chlorobenzene	ND		5.0	3.8
124-48-1	Dibromochloromethane	ND		5.0	1.6
75-00-3	Chloroethane	ND		5.0	1.6
67-66-3	Chloroform	ND		5.0	1.7
74-87-3	Chloromethane	ND		5.0	1.8
156-59-2	cis-1,2-Dichloroethene	68		5.0	4.1
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	1.8
110-82-7	Cyclohexane	ND		5.0	0.90
75-71-8	Dichlorodifluoromethane	ND		5.0	3.4
100-41-4	Ethylbenzene	ND		5.0	3.7
98-82-8	Isopropylbenzene	ND		5.0	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-8 DL Lab Sample ID: 480-10504-17 DL
 Matrix: Water Lab File ID: S6673.D
 Analysis Method: 8260B Date Collected: 09/28/2011 19:15
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 17:49
 Soil Aliquot Vol: _____ Dilution Factor: 5
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.5
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.80
108-87-2	Methylcyclohexane	ND		5.0	0.80
75-09-2	Methylene Chloride	ND		5.0	2.2
100-42-5	Styrene	ND		5.0	3.7
127-18-4	Tetrachloroethene	350		5.0	1.8
108-88-3	Toluene	ND		5.0	2.6
156-60-5	trans-1,2-Dichloroethene	ND		5.0	4.5
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	1.9
79-01-6	Trichloroethene	290		5.0	2.3
75-69-4	Trichlorofluoromethane	ND		5.0	4.4
75-01-4	Vinyl chloride	ND		5.0	4.5
1330-20-7	Xylenes, Total	ND		10	3.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		66-137
2037-26-5	Toluene-d8 (Surr)	117		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6673.D
 Lims ID: 480-10504-B-17 Client ID: PZ-8
 Inject. Date: 06-Oct-2011 17:49:30 Dil. Factor: 5.0000
 Sample Type: Client
 Sample ID: 480-10504-B-17
 Misc. Info.: 480-0006479-020 =480-0006479-020
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 20
 Lims Batch ID: 34202 Lims Sample ID: 20
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:36:05 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 09:39:26

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	419215	25.0	
* 2 Chlorobenzene-d5	82	7.125	7.131	-0.006	83	191002	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	199062	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	70088	29.8	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	441628	29.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	87	134065	28.1	
10 Dichlorodifluoromethane	85		1.266					
12 Chloromethane	50		1.406					
13 Vinyl chloride	62		1.510					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.881					
17 Trichlorofluoromethane	101		2.094					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.732					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.030					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63	3.535	3.535	0.0	2	6832	0.8682	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	64	68415	13.6	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.345					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.630					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	269721	58.5	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.300					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	92	337304	70.6	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 07-Oct-2011 09:39:26

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6673.D

Injection Date: 06-Oct-2011 17:49:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34202

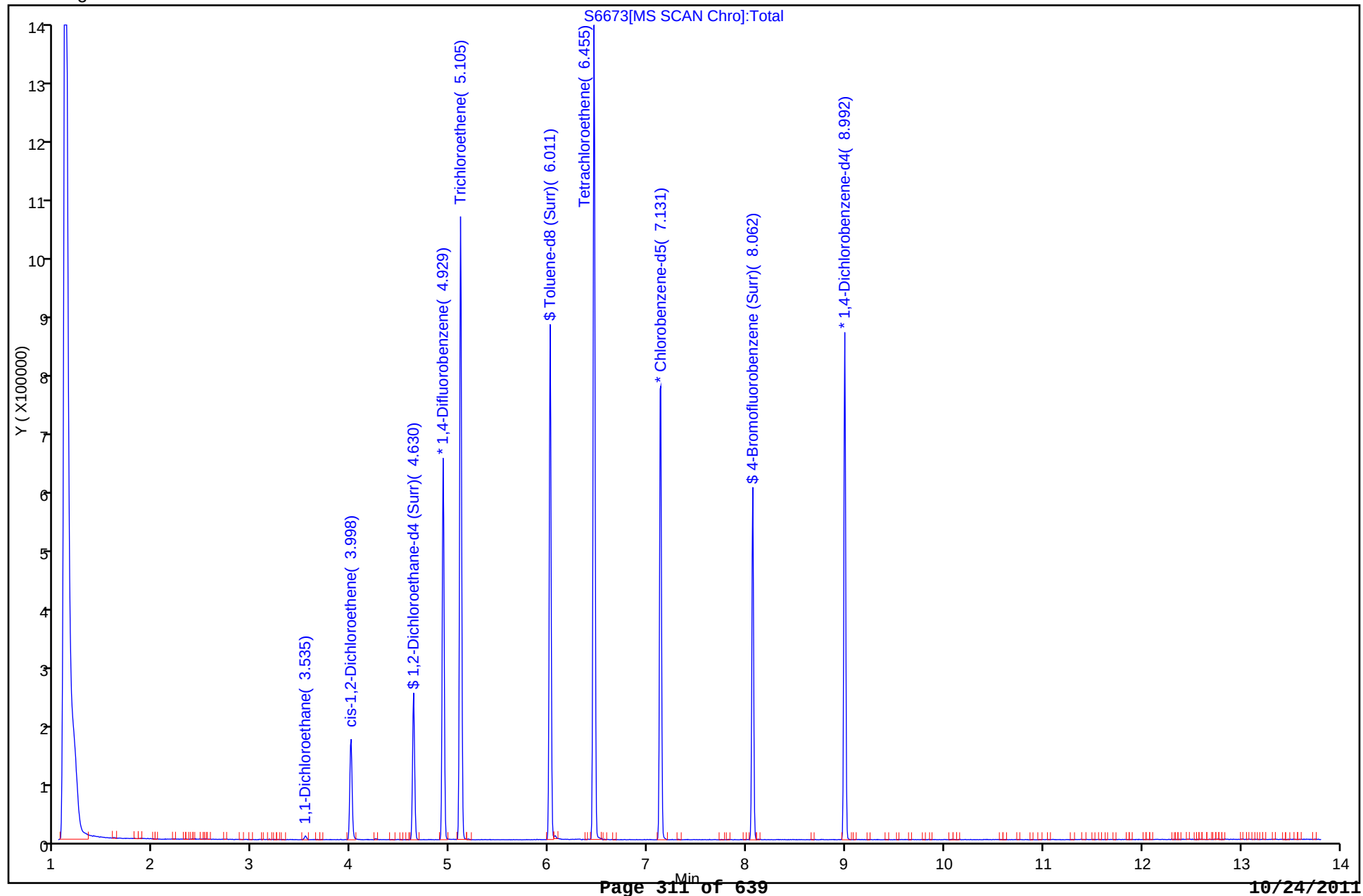
Lims Sample ID: 20

Operator ID: DHC

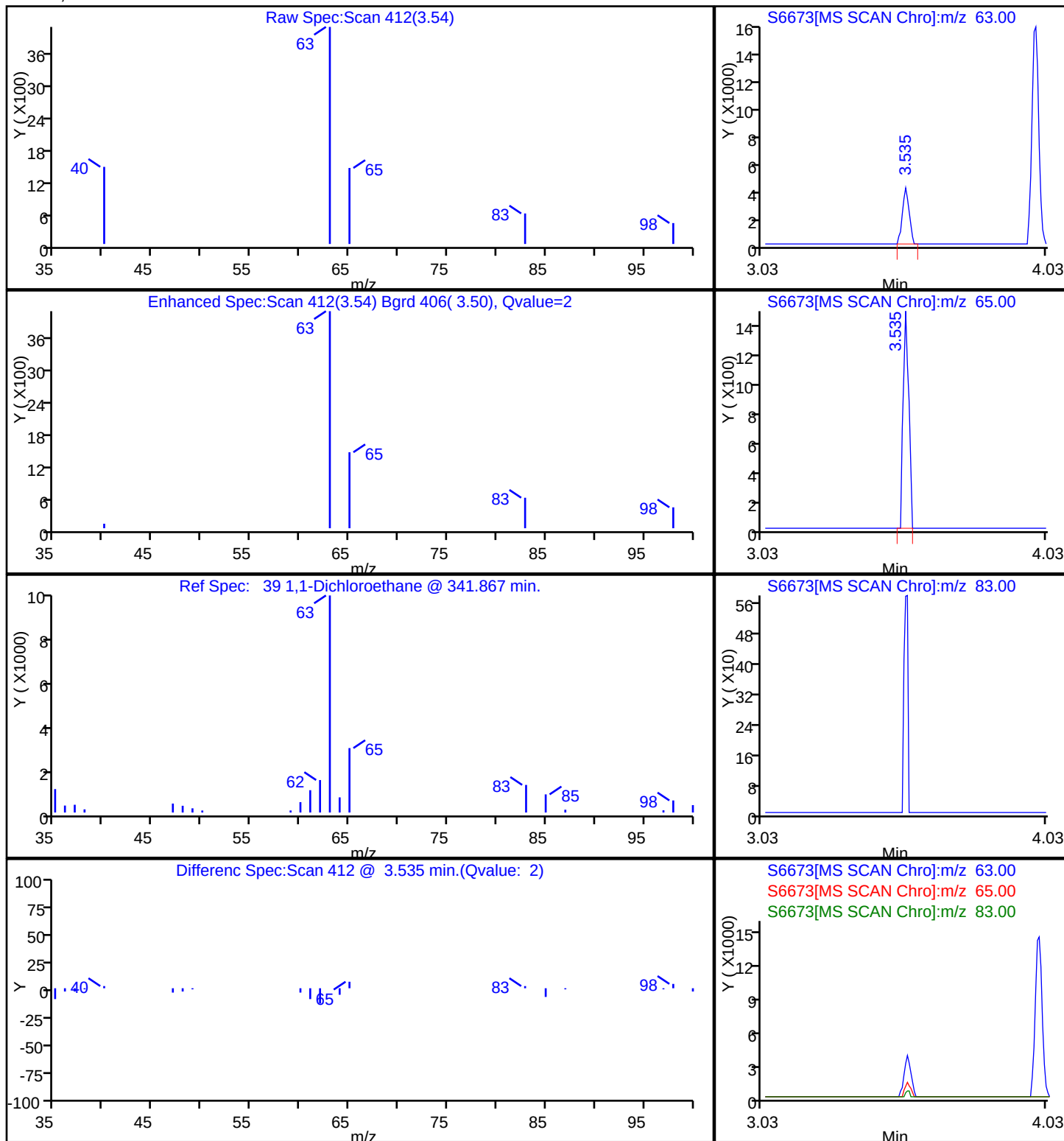
Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



39 1,1-Dichloroethane



Report Date: 07-Oct-2011 09:39:26

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6673.D

Injection Date: 06-Oct-2011 17:49:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34202

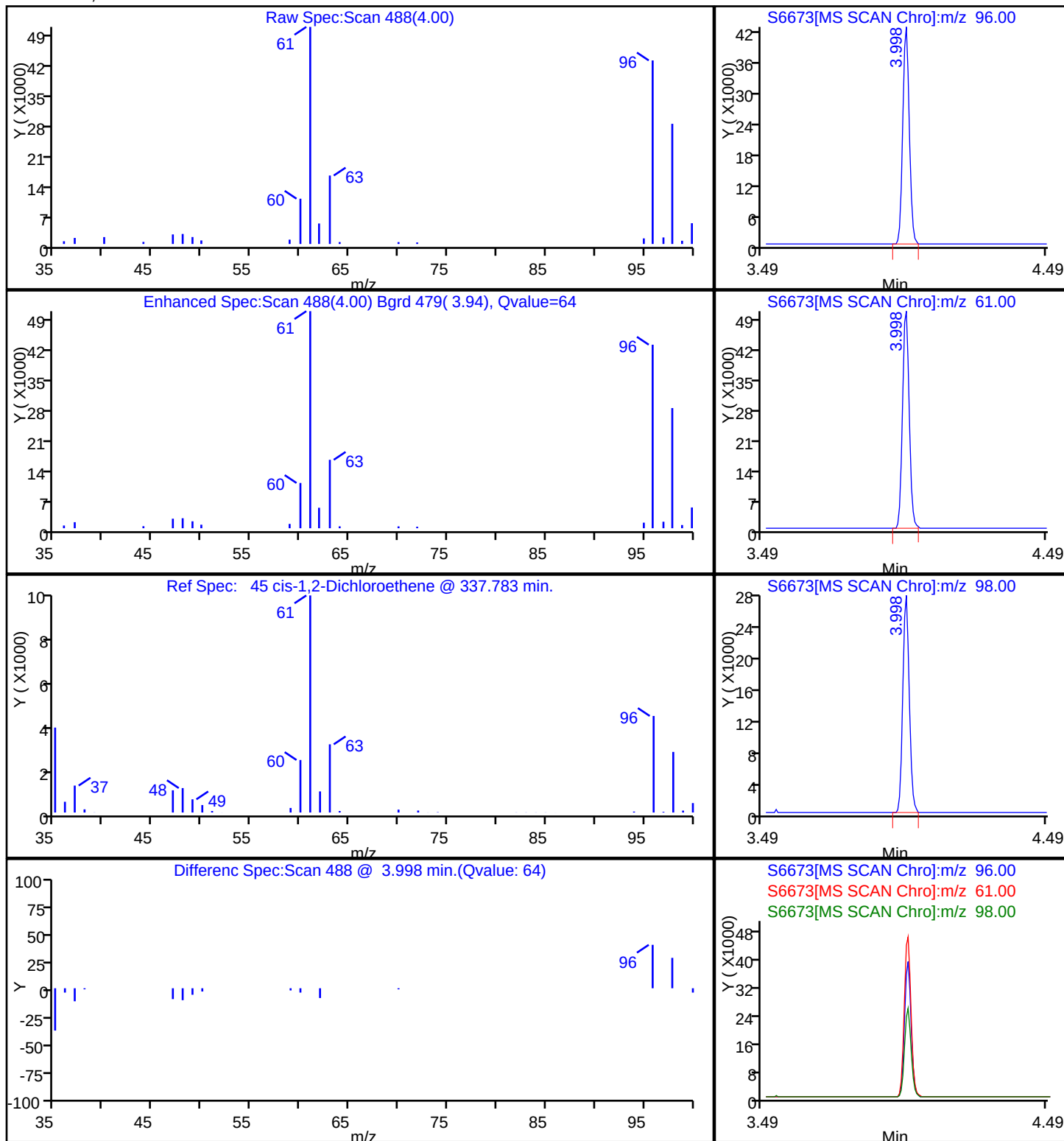
Lims Sample ID: 20

Operator ID: DHC

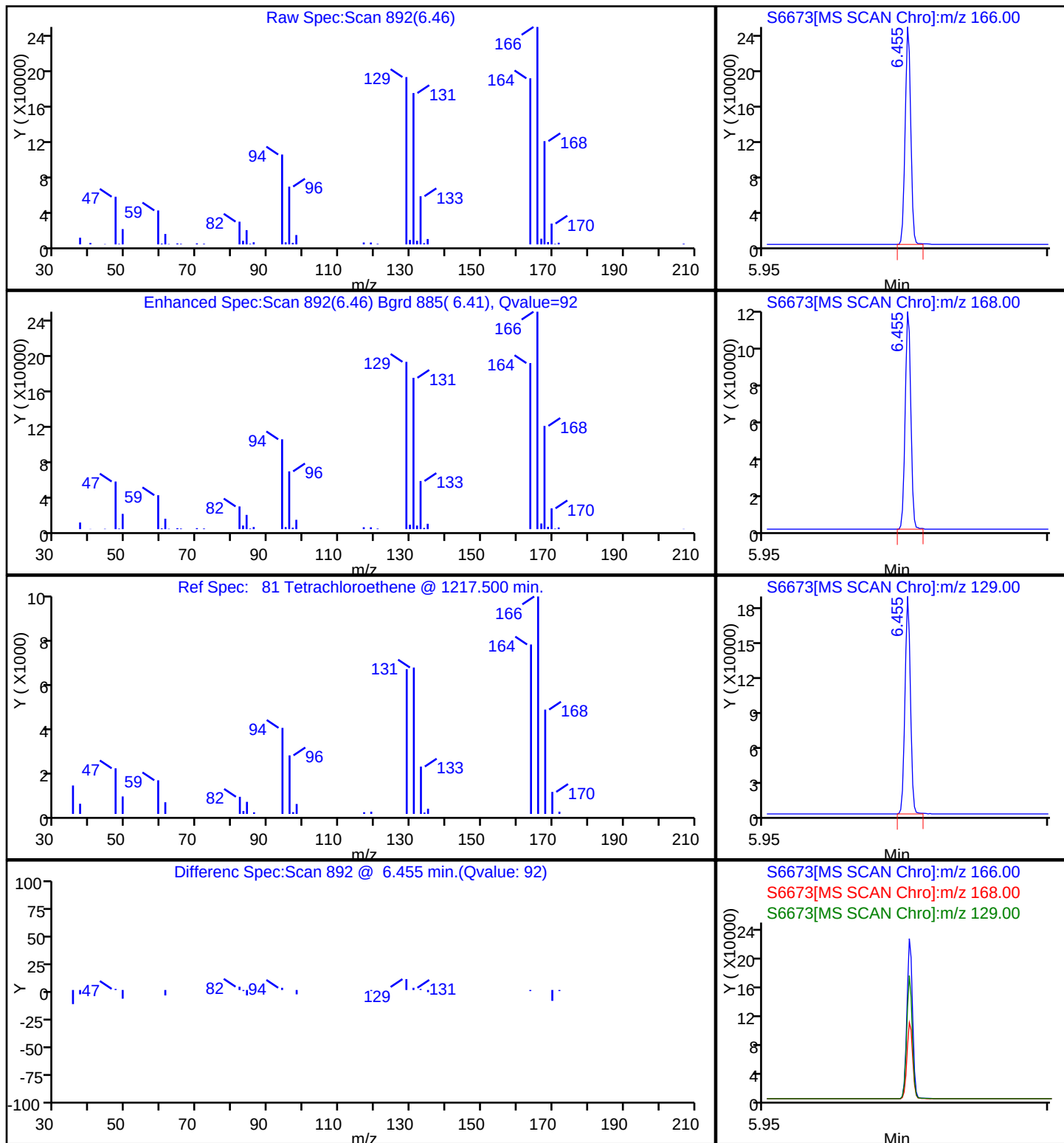
Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



81 Tetrachloroethene



Report Date: 07-Oct-2011 09:39:26

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6673.D

Injection Date: 06-Oct-2011 17:49:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-8

Instrument ID: HP5973S

Lims Batch ID: 34202

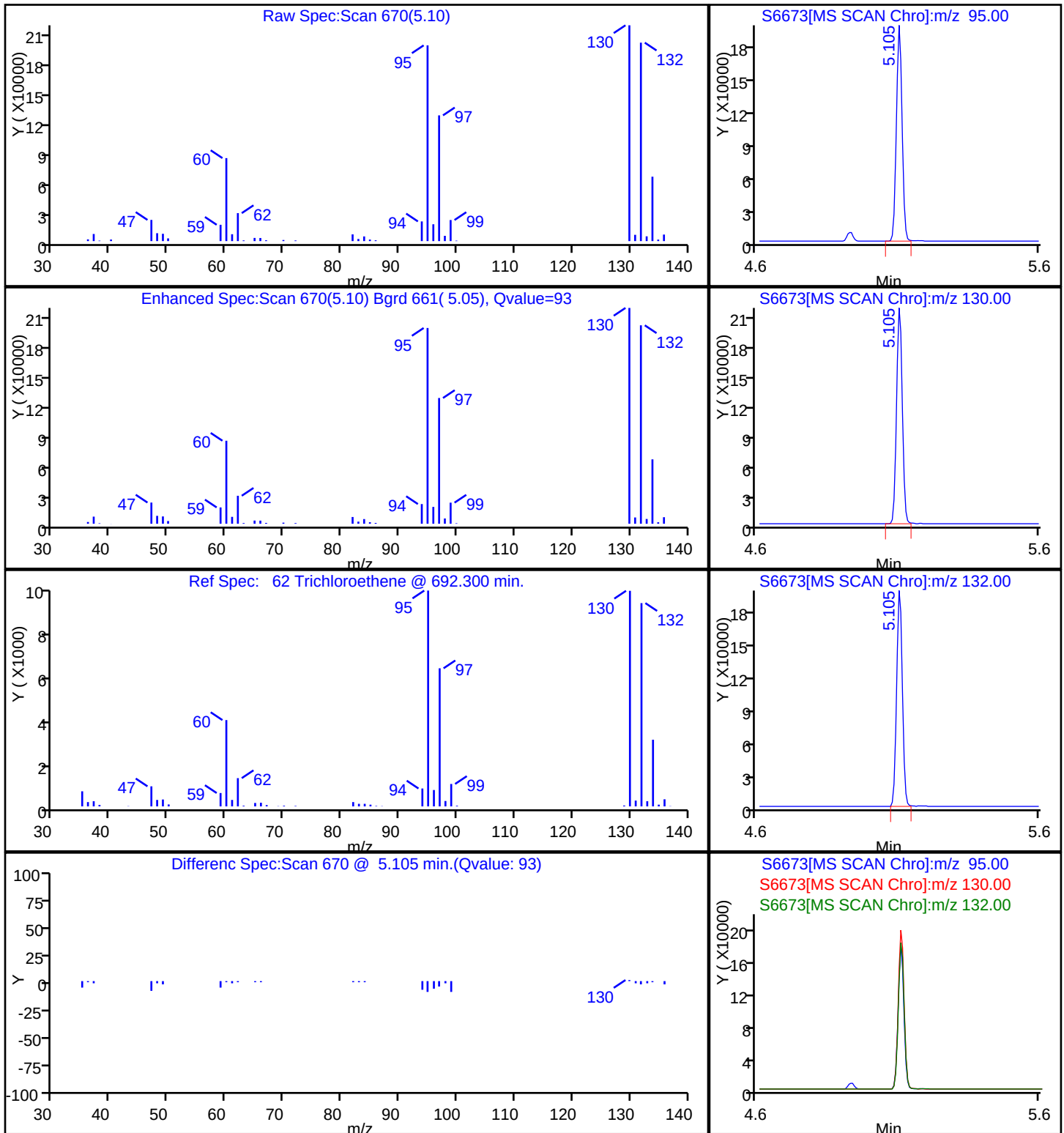
Lims Sample ID: 20

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-14BR Lab Sample ID: 480-10504-18

Matrix: Water Lab File ID: S6649.D

Analysis Method: 8260B Date Collected: 09/29/2011 10:15

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 17:42

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	16		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-14BR Lab Sample ID: 480-10504-18
 Matrix: Water Lab File ID: S6649.D
 Analysis Method: 8260B Date Collected: 09/29/2011 10:15
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 17:42
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.57	J	1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		66-137
2037-26-5	Toluene-d8 (Surr)	120		71-126
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6649.D
 Lims ID: 480-10504-A-18 Client ID: MW-14BR
 Inject. Date: 05-Oct-2011 17:42:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-18
 Misc. Info.: 480-0006450-023 =480-0006450-023
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 23
 Lims Batch ID: 34016 Lims Sample ID: 23
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:06:21

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	449339	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	204861	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	212749	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	77045	30.6	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	485594	30.1	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	89	146262	28.6	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.641	2.647	-0.006	93	28268	16.3	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84	3.037	3.024	0.013	15	3072	0.5672	
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:06:21

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6649.D

Injection Date: 05-Oct-2011 17:42:30

Limit Group: MV - 8260B ICAL

Client ID: MW-14BR

Instrument ID: HP5973S

Lims Batch ID: 34016

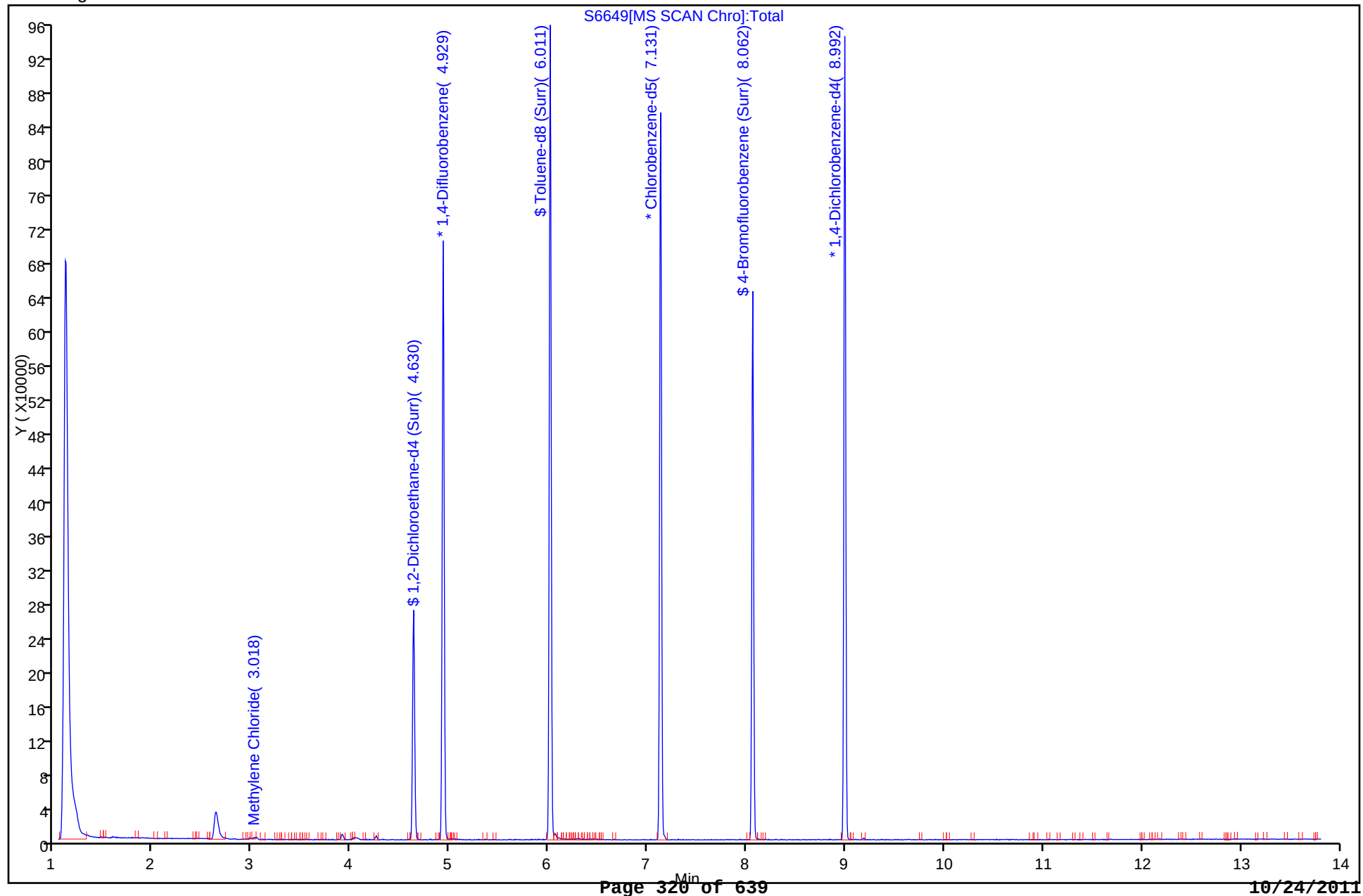
Lims Sample ID: 23

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 09:06:21

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6649.D

Injection Date: 05-Oct-2011 17:42:30

Limit Group: MV - 8260B ICAL

Client ID: MW-14BR

Instrument ID: HP5973S

Lims Batch ID: 34016

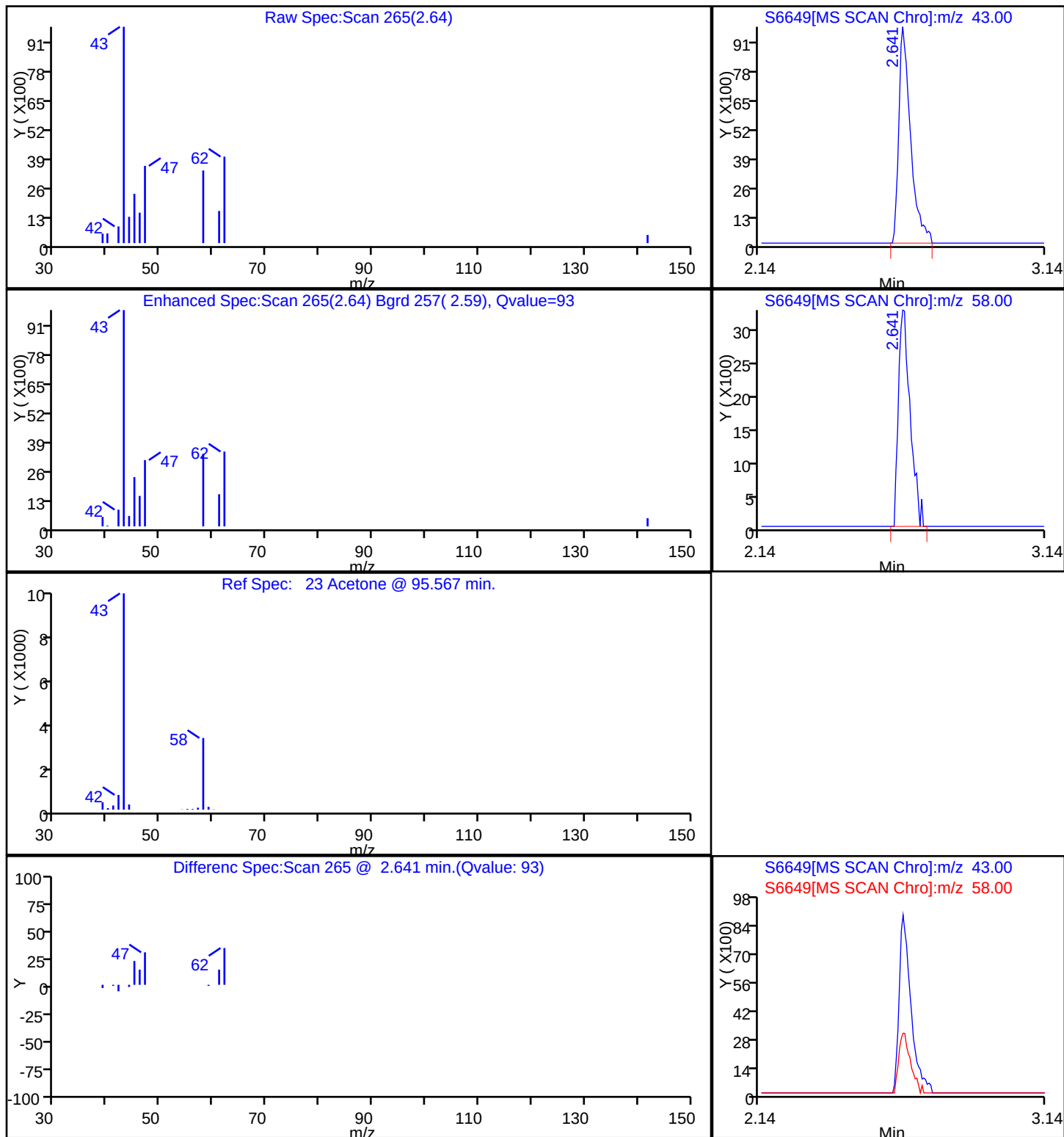
Lims Sample ID: 23

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

23 Acetone



Report Date: 06-Oct-2011 09:06:21

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6649.D

Injection Date: 05-Oct-2011 17:42:30

Limit Group: MV - 8260B ICAL

Client ID: MW-14BR

Instrument ID: HP5973S

Lims Batch ID: 34016

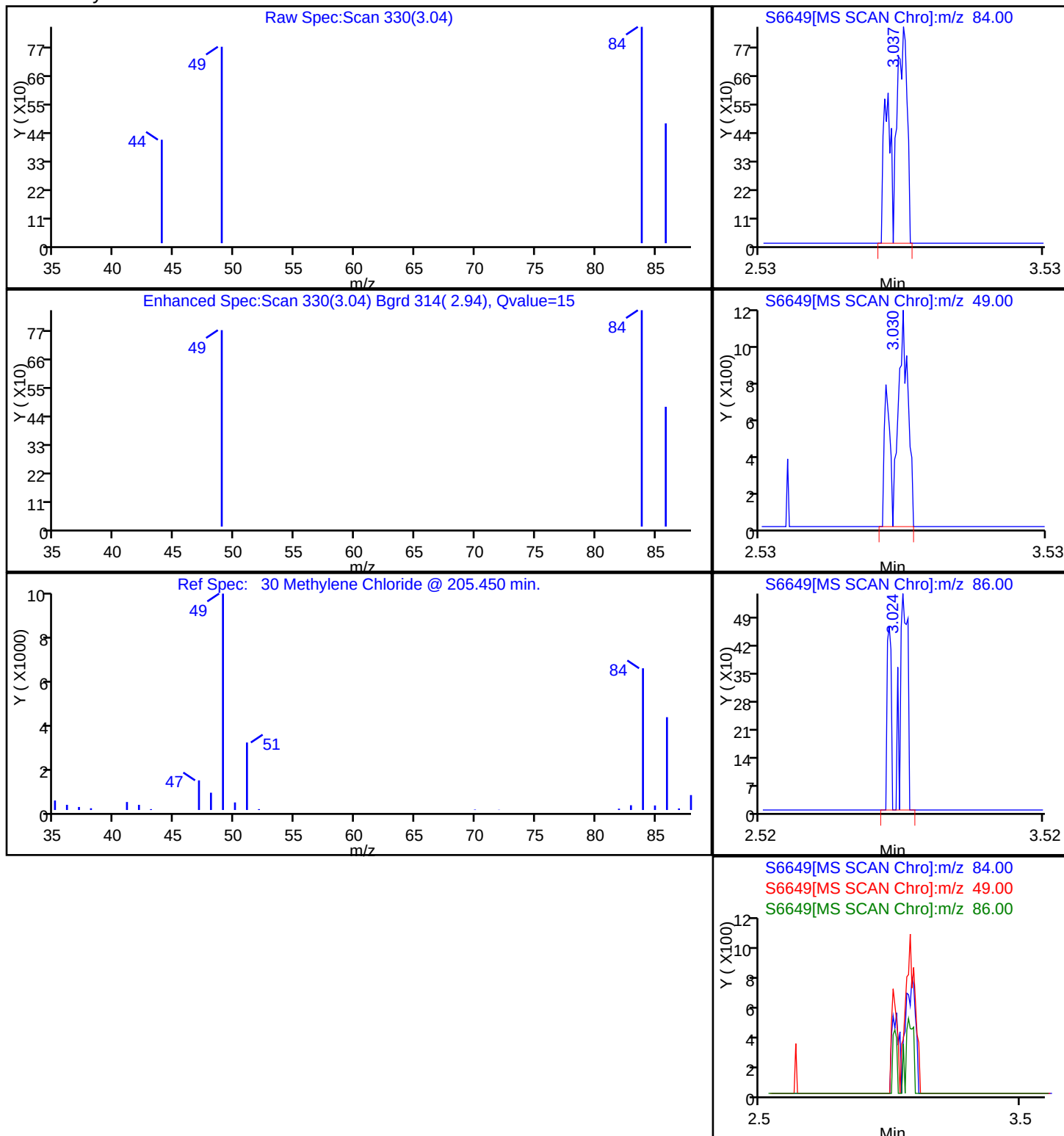
Lims Sample ID: 23

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

30 Methylene Chloride



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: PZ-11R Lab Sample ID: 480-10504-19

Matrix: Water Lab File ID: S6650.D

Analysis Method: 8260B Date Collected: 09/29/2011 11:15

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:05

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	5.0		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: PZ-11R Lab Sample ID: 480-10504-19
 Matrix: Water Lab File ID: S6650.D
 Analysis Method: 8260B Date Collected: 09/29/2011 11:15
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	5.5		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	9.0		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6650.D
 Lims ID: 480-10504-A-19 Client ID: PZ-11R
 Inject. Date: 05-Oct-2011 18:05:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-19
 Misc. Info.: 480-0006450-024 =480-0006450-024
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 24
 Lims Batch ID: 34016 Lims Sample ID: 24
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:06:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	449364	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	205287	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	212822	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	75687	30.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	476307	29.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	87	144861	28.3	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43	2.653	2.647	0.006	68	3937	2.27	
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	54	26994	5.01	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	89	44272	8.96	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	89	28105	5.47	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:06:27

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6650.D

Injection Date: 05-Oct-2011 18:05:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-11R

Instrument ID: HP5973S

Lims Batch ID: 34016

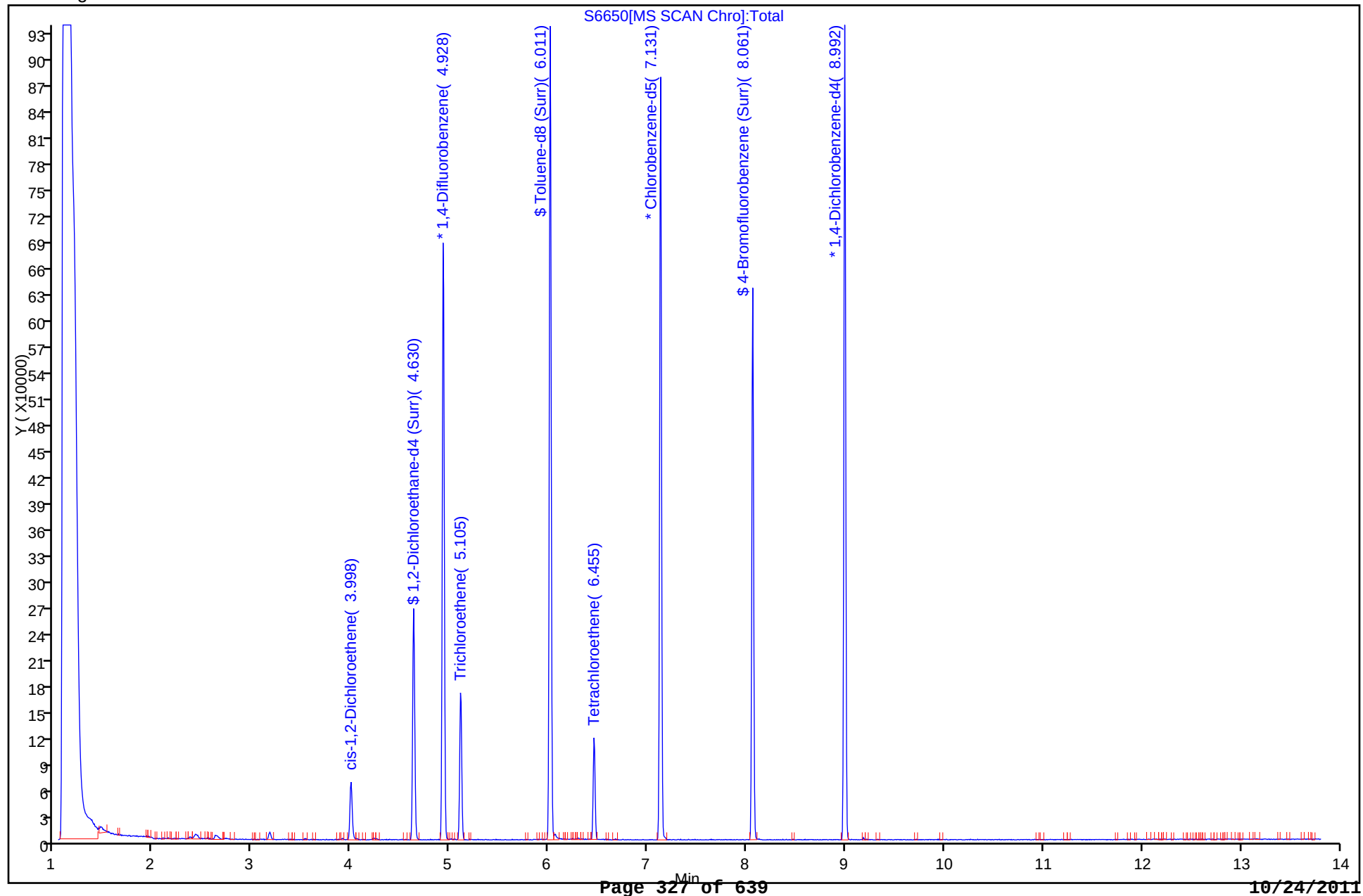
Lims Sample ID: 24

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 09:06:27

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6650.D

Injection Date: 05-Oct-2011 18:05:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-11R

Instrument ID: HP5973S

Lims Batch ID: 34016

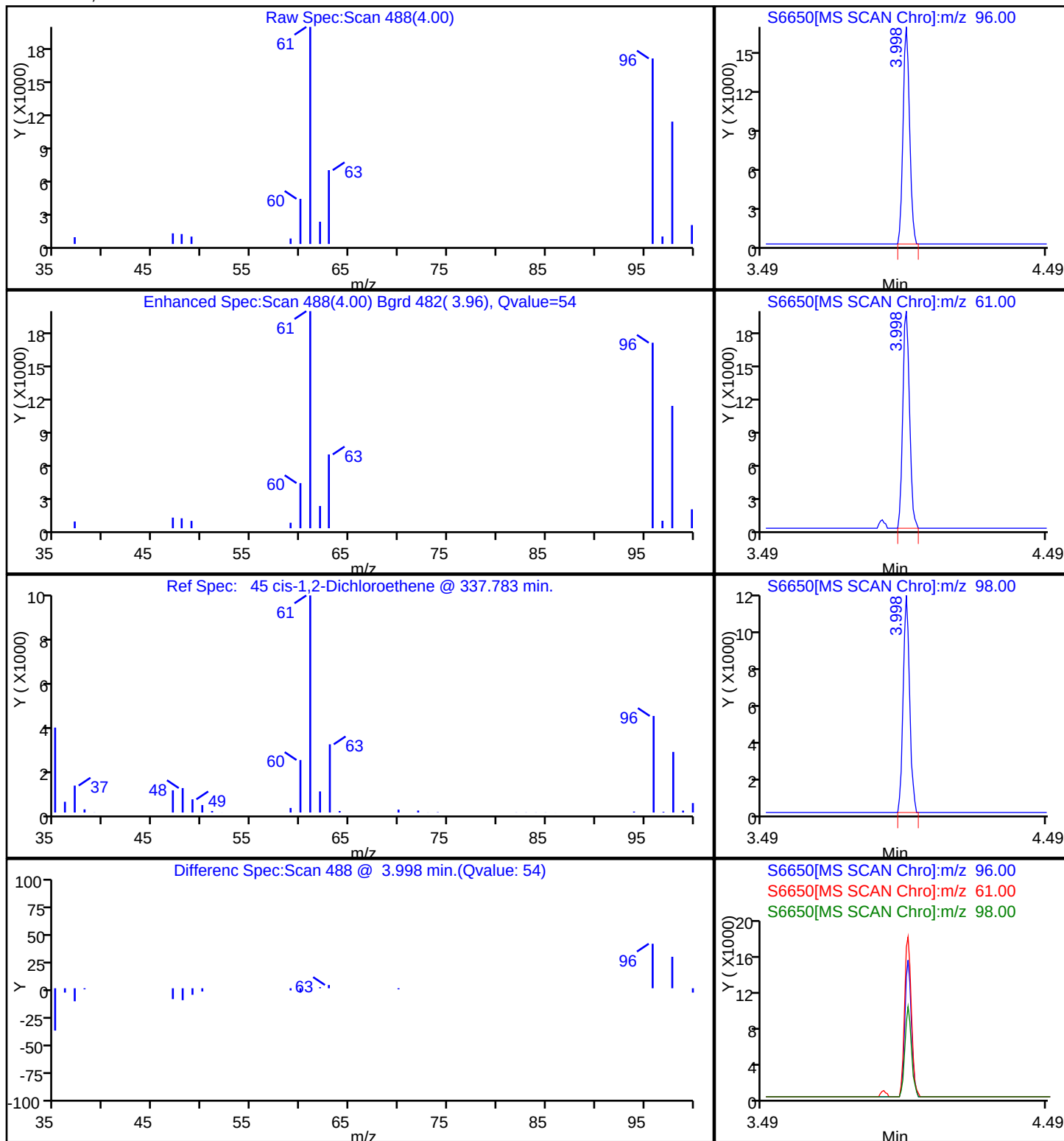
Lims Sample ID: 24

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 09:06:27

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6650.D

Injection Date: 05-Oct-2011 18:05:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-11R

Instrument ID: HP5973S

Lims Batch ID: 34016

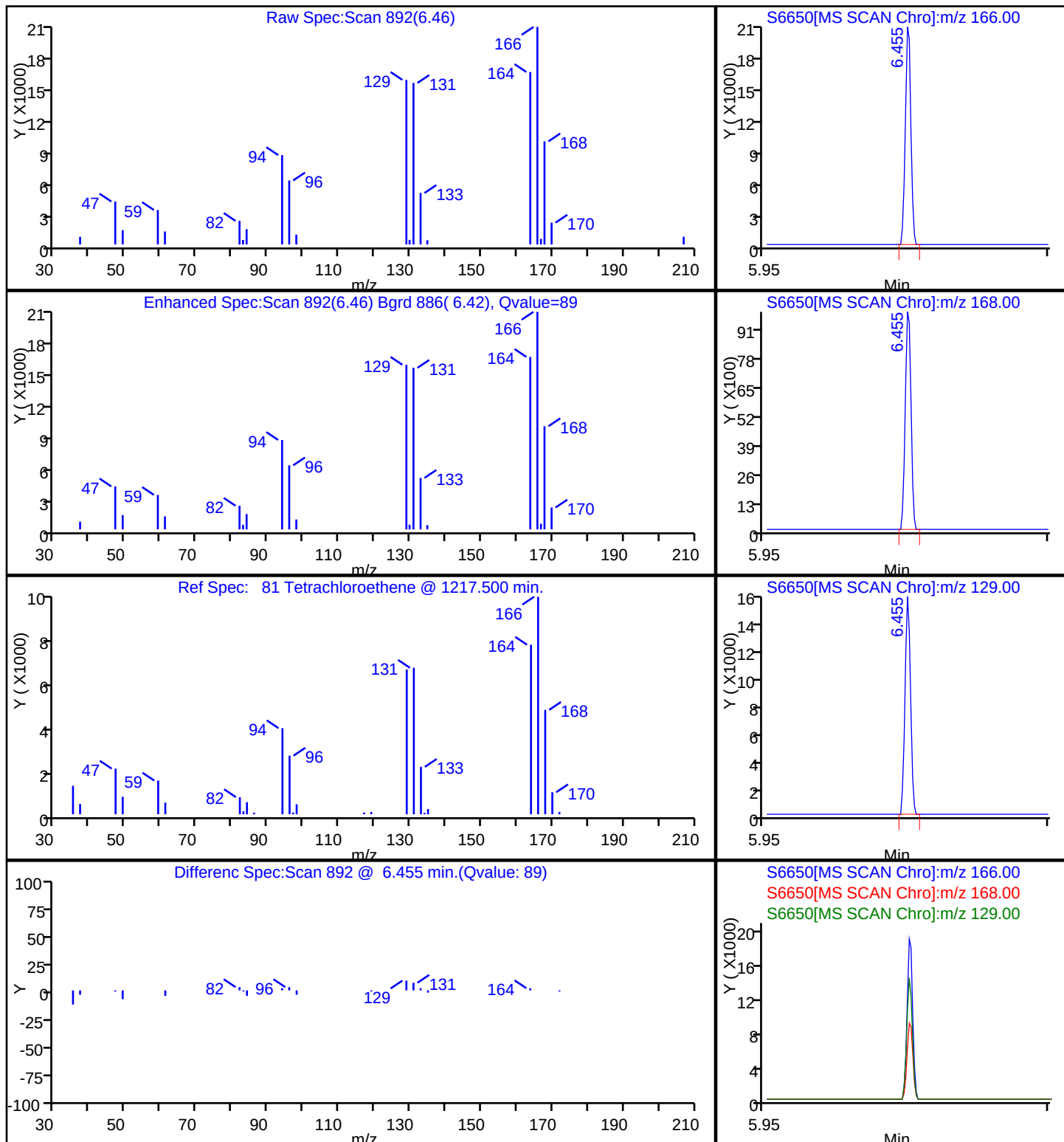
Lims Sample ID: 24

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



Report Date: 06-Oct-2011 09:06:27

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6650.D

Injection Date: 05-Oct-2011 18:05:30

Limit Group: MV - 8260B ICAL

Client ID: PZ-11R

Instrument ID: HP5973S

Lims Batch ID: 34016

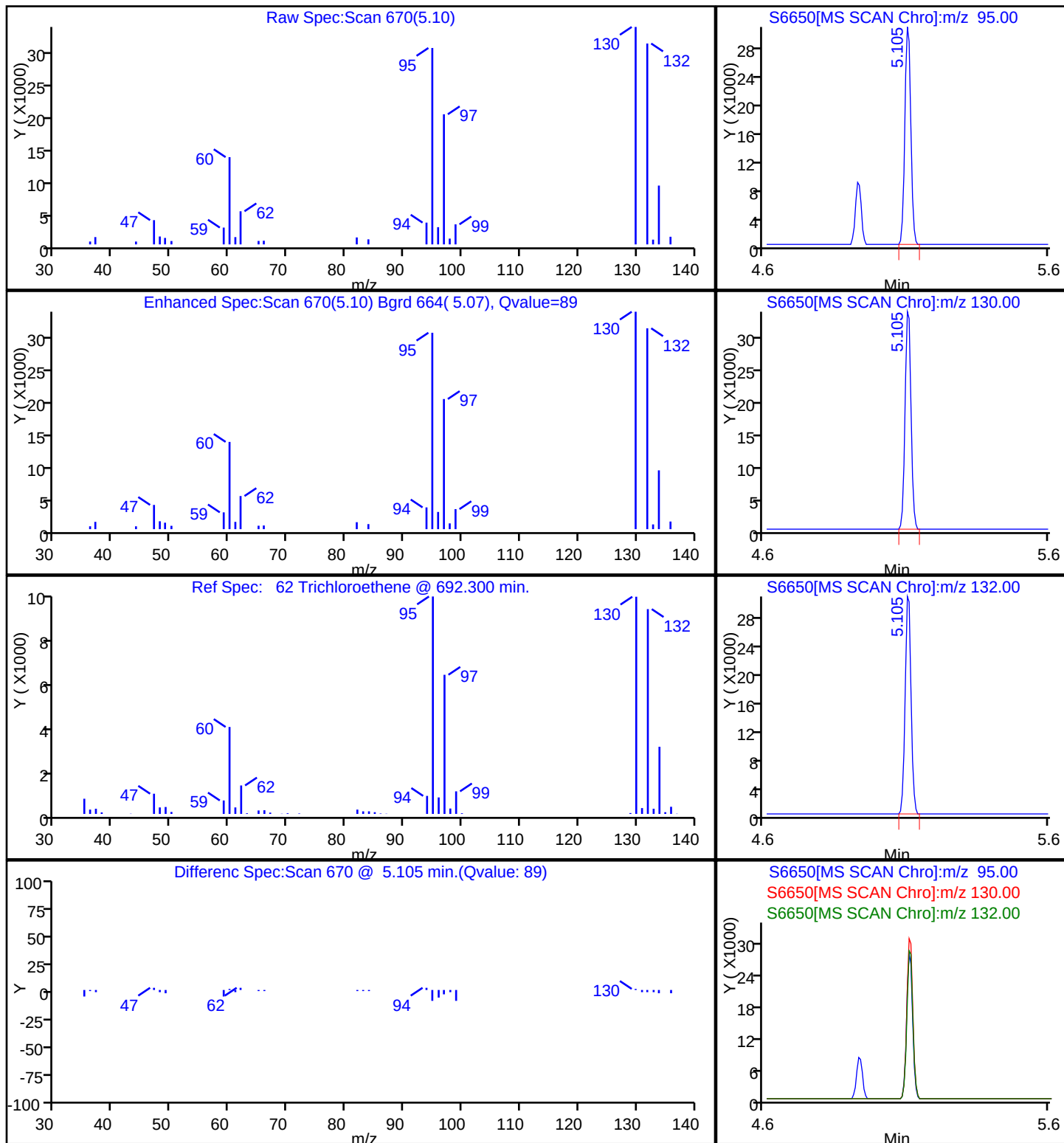
Lims Sample ID: 24

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

62 Trichloroethene



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: MW-10 Lab Sample ID: 480-10504-20

Matrix: Water Lab File ID: S6651.D

Analysis Method: 8260B Date Collected: 09/29/2011 12:45

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:27

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	2.6		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	53		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: MW-10 Lab Sample ID: 480-10504-20
 Matrix: Water Lab File ID: S6651.D
 Analysis Method: 8260B Date Collected: 09/29/2011 12:45
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:27
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	3.4		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	2.5		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	23		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	113		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D
 Lims ID: 480-10504-D-20 Client ID: MW-10
 Inject. Date: 05-Oct-2011 18:27:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-20
 Misc. Info.: 480-0006450-025 =480-0006450-025
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 25
 Lims Batch ID: 34016 Lims Sample ID: 25
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:06:34

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	440735	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	203152	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	211184	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.001	96	74534	30.1	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	464873	29.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	143152	28.2	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.510	1.504	0.006	81	107050	22.5	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	87	16057	3.35	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	52	21701	2.62	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	280362	53.0	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	77	12179	2.51	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:06:34

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D

Injection Date: 05-Oct-2011 18:27:30

Limit Group: MV - 8260B ICAL

Client ID: MW-10

Instrument ID: HP5973S

Lims Batch ID: 34016

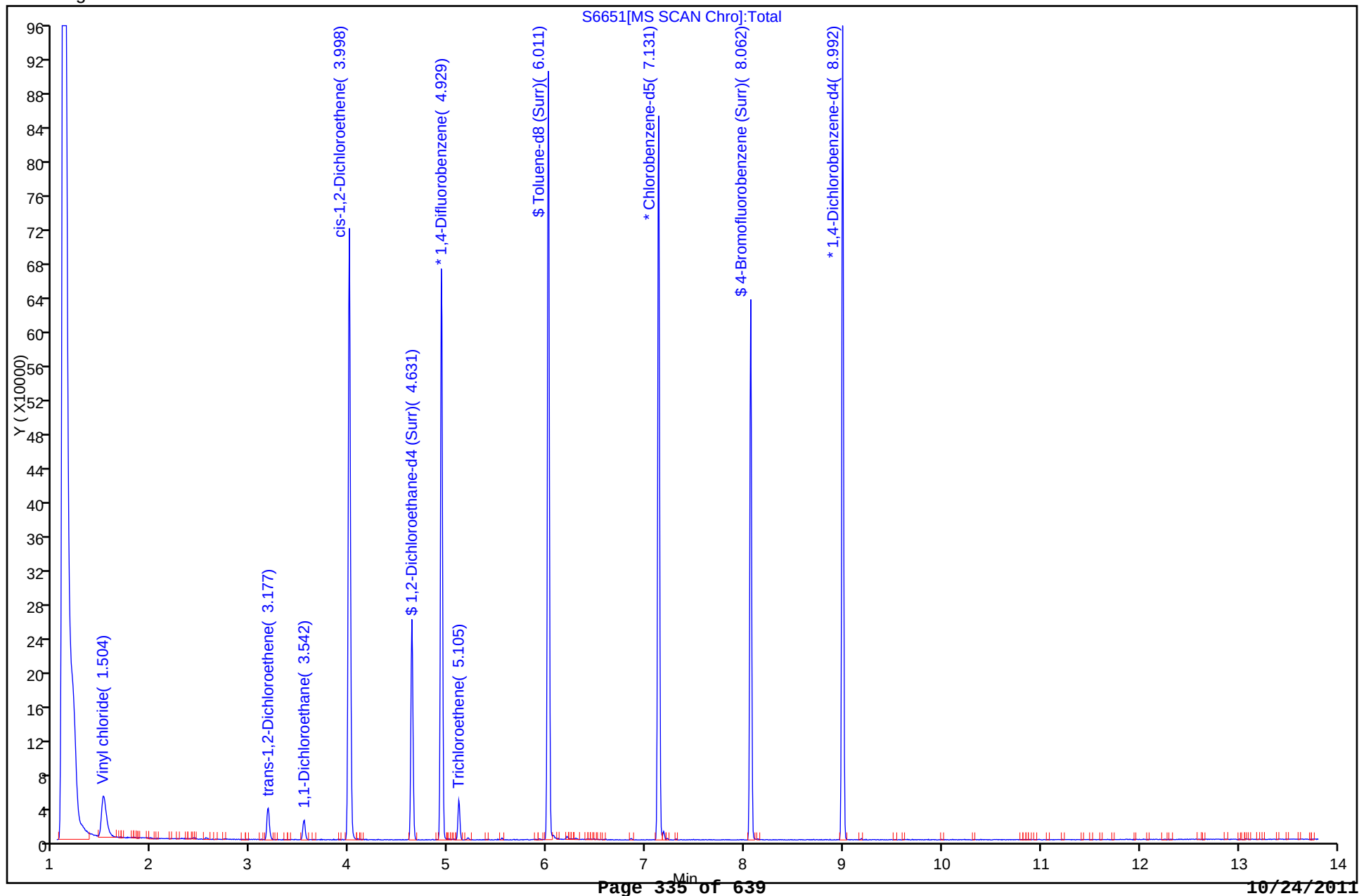
Lims Sample ID: 25

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



Report Date: 06-Oct-2011 09:06:34

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D

Injection Date: 05-Oct-2011 18:27:30

Limit Group: MV - 8260B ICAL

Client ID: MW-10

Instrument ID: HP5973S

Lims Batch ID: 34016

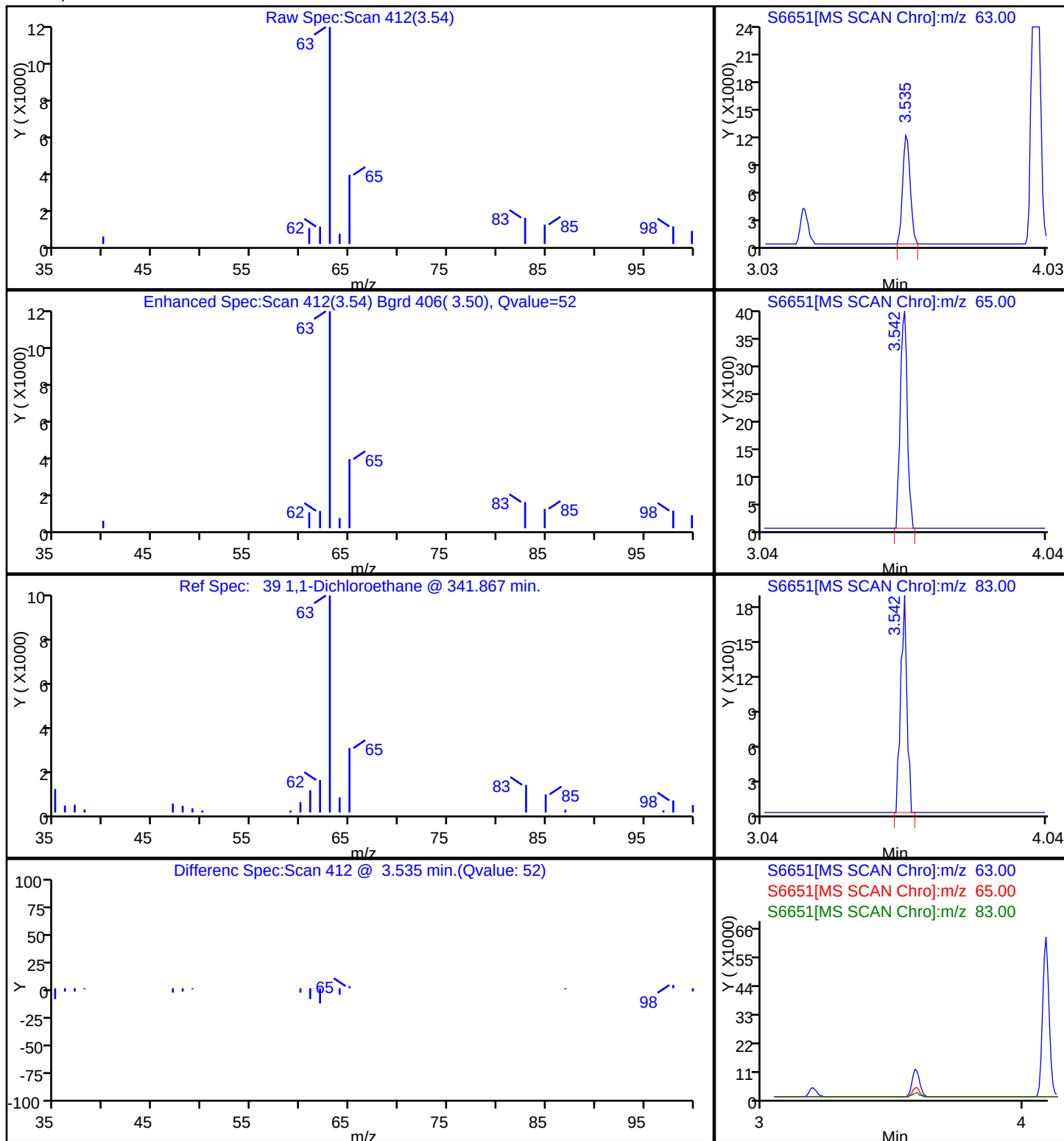
Lims Sample ID: 25

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

39 1,1-Dichloroethane



Report Date: 06-Oct-2011 09:06:34

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D

Injection Date: 05-Oct-2011 18:27:30

Limit Group: MV - 8260B ICAL

Client ID: MW-10

Instrument ID: HP5973S

Lims Batch ID: 34016

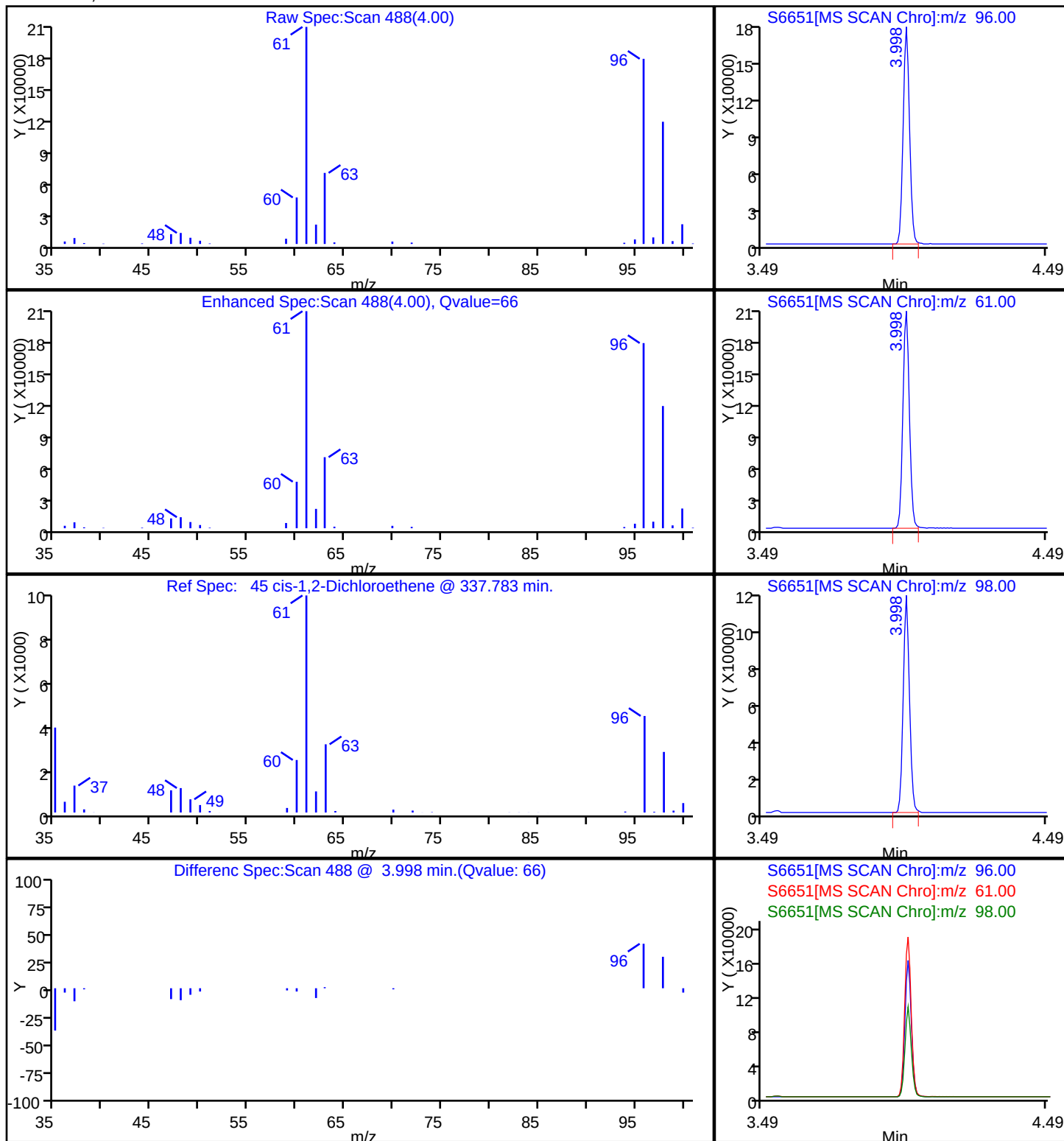
Lims Sample ID: 25

Operator ID: DHC

Column Type: ZB-624

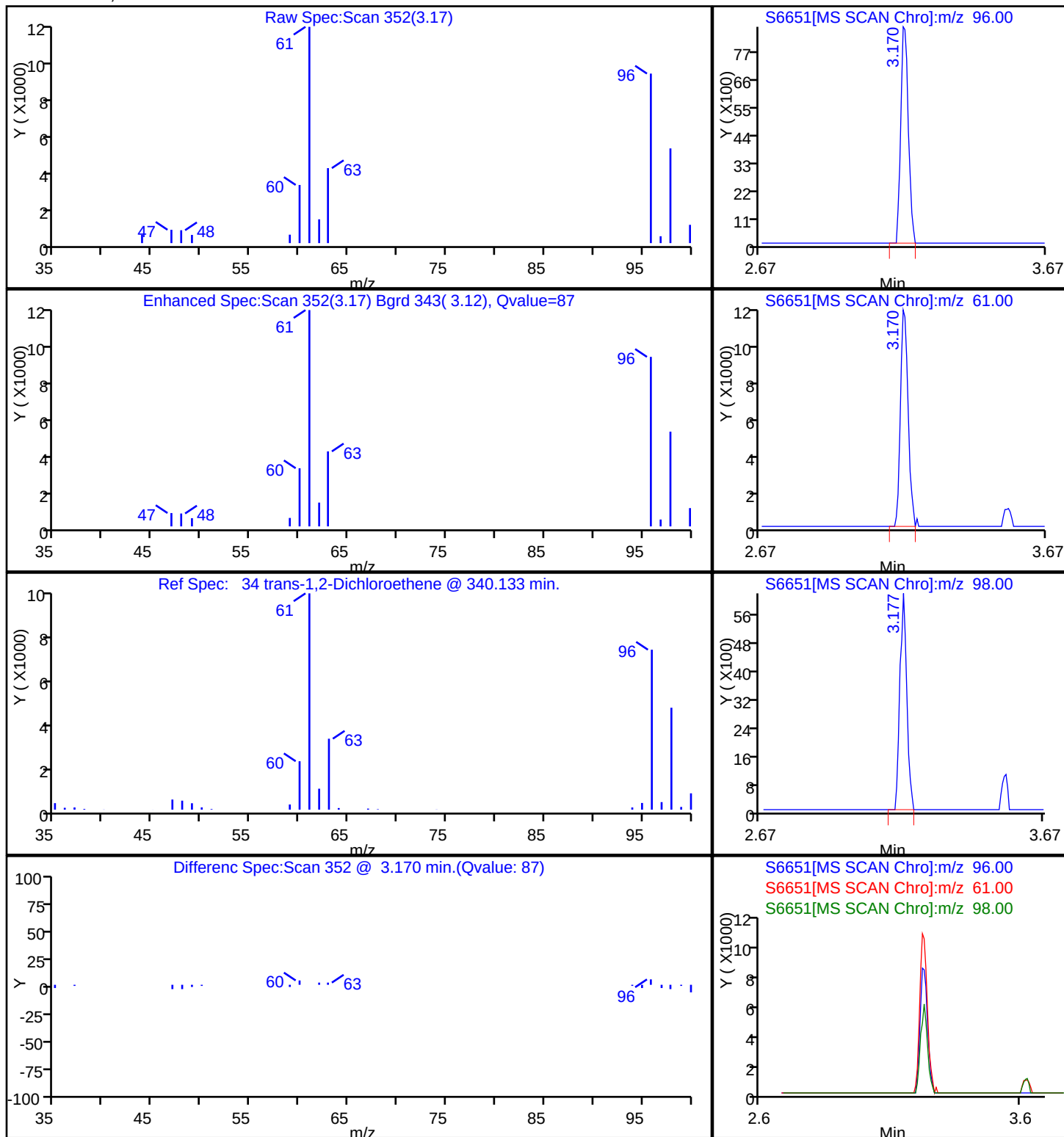
Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene

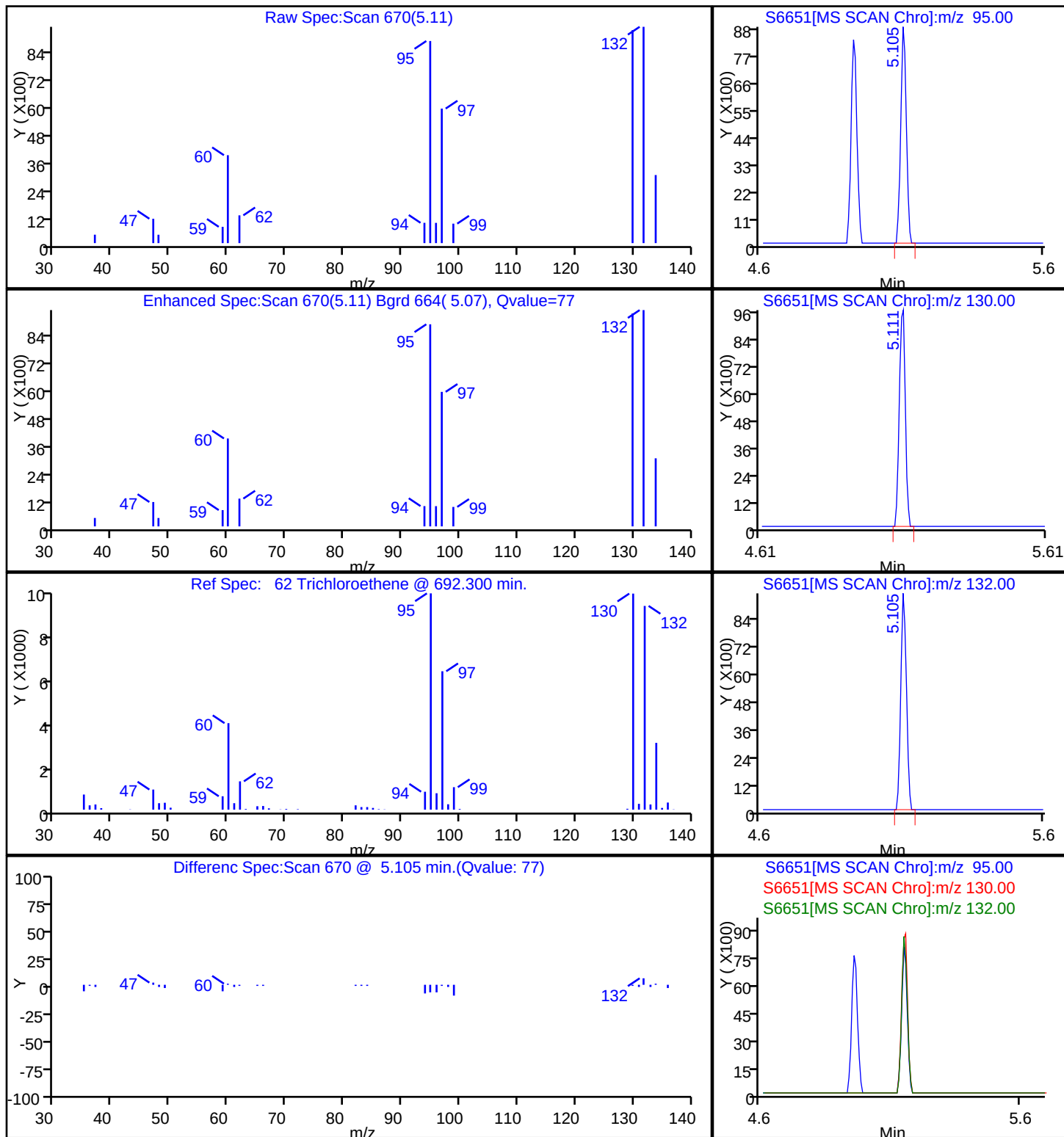


Report Date: 06-Oct-2011 09:06:34
Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D
Injection Date: 05-Oct-2011 18:27:30
Client ID: MW-10
Lims Batch ID: 34016
Operator ID: DHC
Column Type: ZB-624
34 trans-1,2-Dichloroethene

Chrom Revision: 2.0 01-Sep-2011 14:10:00
Limit Group: MV - 8260B ICAL
Instrument ID: HP5973S
Lims Sample ID: 25
Column Dia: 0.25 mm

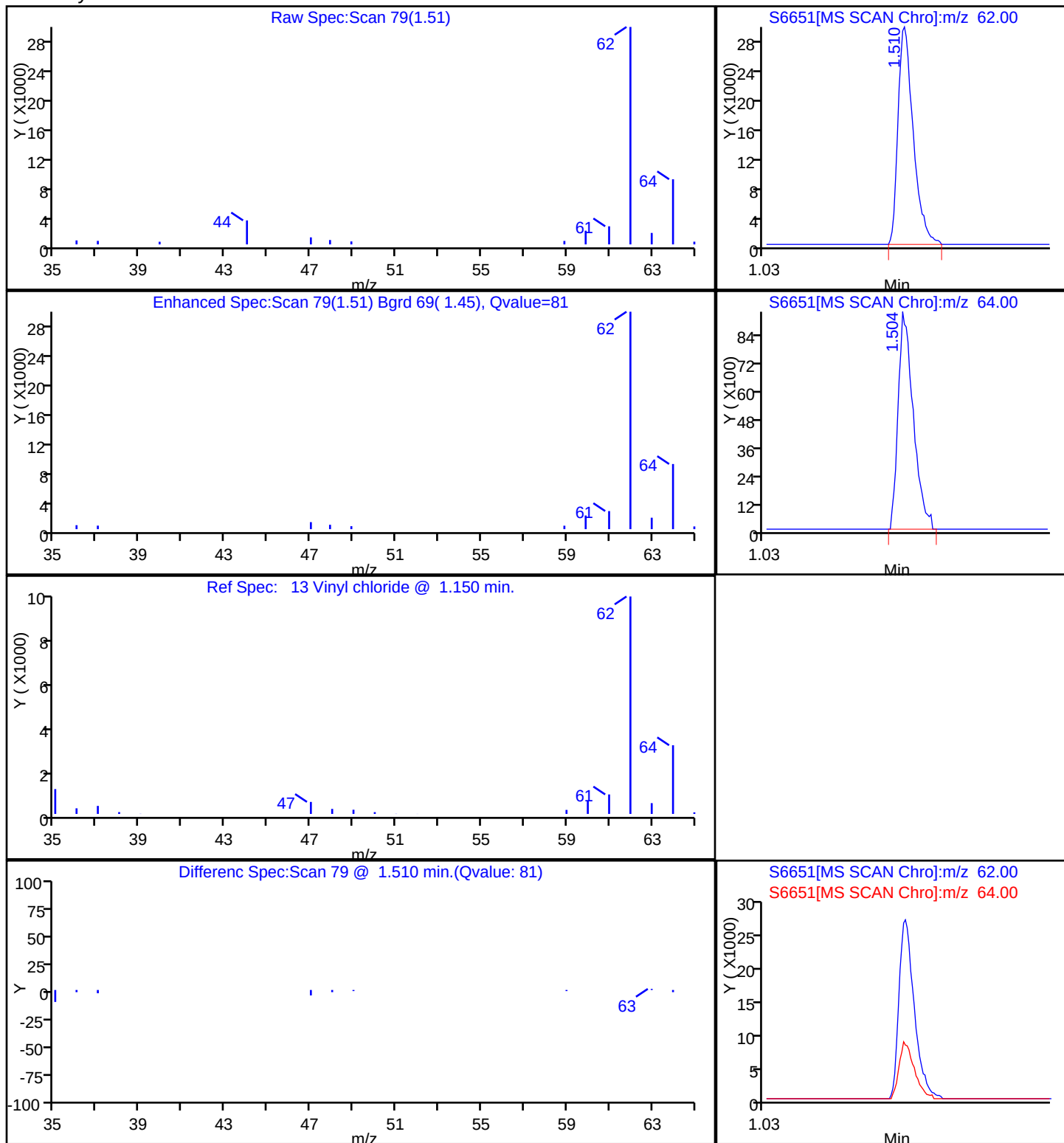


62 Trichloroethene



Report Date: 06-Oct-2011 09:06:34
Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6651.D
Injection Date: 05-Oct-2011 18:27:30
Client ID: MW-10
Lims Batch ID: 34016
Operator ID: DHC
Column Type: ZB-624
13 Vinyl chloride

Chrom Revision: 2.0 01-Sep-2011 14:10:00
Limit Group: MV - 8260B ICAL
Instrument ID: HP5973S
Lims Sample ID: 25
Column Dia: 0.25 mm



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: TB-092911 Lab Sample ID: 480-10504-21
 Matrix: Water Lab File ID: S6652.D
 Analysis Method: 8260B Date Collected: 09/28/2011 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: TB-092911 Lab Sample ID: 480-10504-21
 Matrix: Water Lab File ID: S6652.D
 Analysis Method: 8260B Date Collected: 09/28/2011 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 18:49
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6652.D
 Lims ID: 480-10504-A-21 Client ID: TB-092911
 Inject. Date: 05-Oct-2011 18:49:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-A-21
 Misc. Info.: 480-0006450-026 =480-0006450-026
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 26
 Lims Batch ID: 34016 Lims Sample ID: 26
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:06:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.0	94	450640	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	203375	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	208104	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	75737	29.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	474034	29.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	88	141868	27.9	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
39 1,1-Dichloroethane	63		3.535					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95		5.105					
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:06:38

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6652.D

Injection Date: 05-Oct-2011 18:49:30

Limit Group: MV - 8260B ICAL

Client ID: TB-092911

Instrument ID: HP5973S

Lims Batch ID: 34016

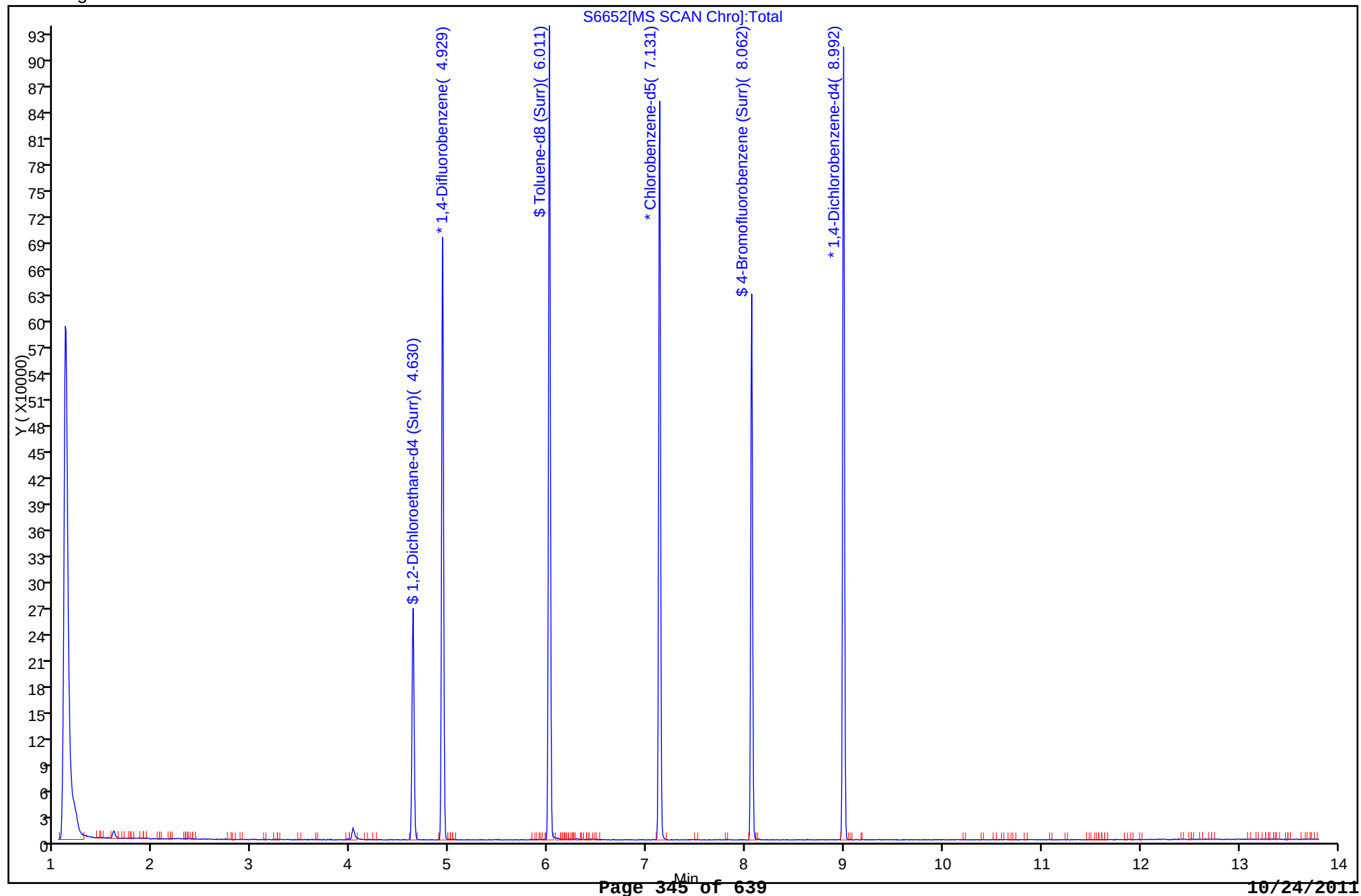
Lims Sample ID: 26

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: DUP-092811 Lab Sample ID: 480-10504-22

Matrix: Water Lab File ID: S6653.D

Analysis Method: 8260B Date Collected: 09/28/2011 00:00

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 19:10

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	5.5		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	39		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: DUP-092811 Lab Sample ID: 480-10504-22
 Matrix: Water Lab File ID: S6653.D
 Analysis Method: 8260B Date Collected: 09/28/2011 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 19:10
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	81		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	1.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	19		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	3.0		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	112		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D
 Lims ID: 480-10504-D-22 Client ID: DUP-092811
 Inject. Date: 05-Oct-2011 19:10:30 Dil. Factor: 1.0000
 Sample Type: Client
 Sample ID: 480-10504-D-22
 Misc. Info.: 480-0006450-027 =480-0006450-027
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 27
 Lims Batch ID: 34016 Lims Sample ID: 27
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 09:06:49

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	443849	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	202294	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	210468	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	74901	30.1	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	471477	29.6	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	89	141544	28.0	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.509	1.504	0.005	34	14216	2.96	
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
26 Carbon disulfide	76		2.720					
27 Methyl acetate	43		2.903					
30 Methylene Chloride	84		3.024					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	62	6087	1.26	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	69	45917	5.51	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	208645	39.2	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78		4.631					
58 1,2-Dichloroethane	62		4.685					
62 Trichloroethene	95	5.105	5.105	0.0	93	94265	19.3	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.306					
68 Dichlorobromomethane	83		5.519					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.456	-0.001	91	409531	81.0	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112		7.149					
88 Ethylbenzene	91		7.216					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
94 Isopropylbenzene	105		7.910					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.938					
113 1,4-Dichlorobenzene	146		9.011					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.641					
S 124 Xylenes, Total	1		30.000					7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 09:06:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D

Injection Date: 05-Oct-2011 19:10:30

Limit Group: MV - 8260B ICAL

Client ID: DUP-092811

Instrument ID: HP5973S

Lims Batch ID: 34016

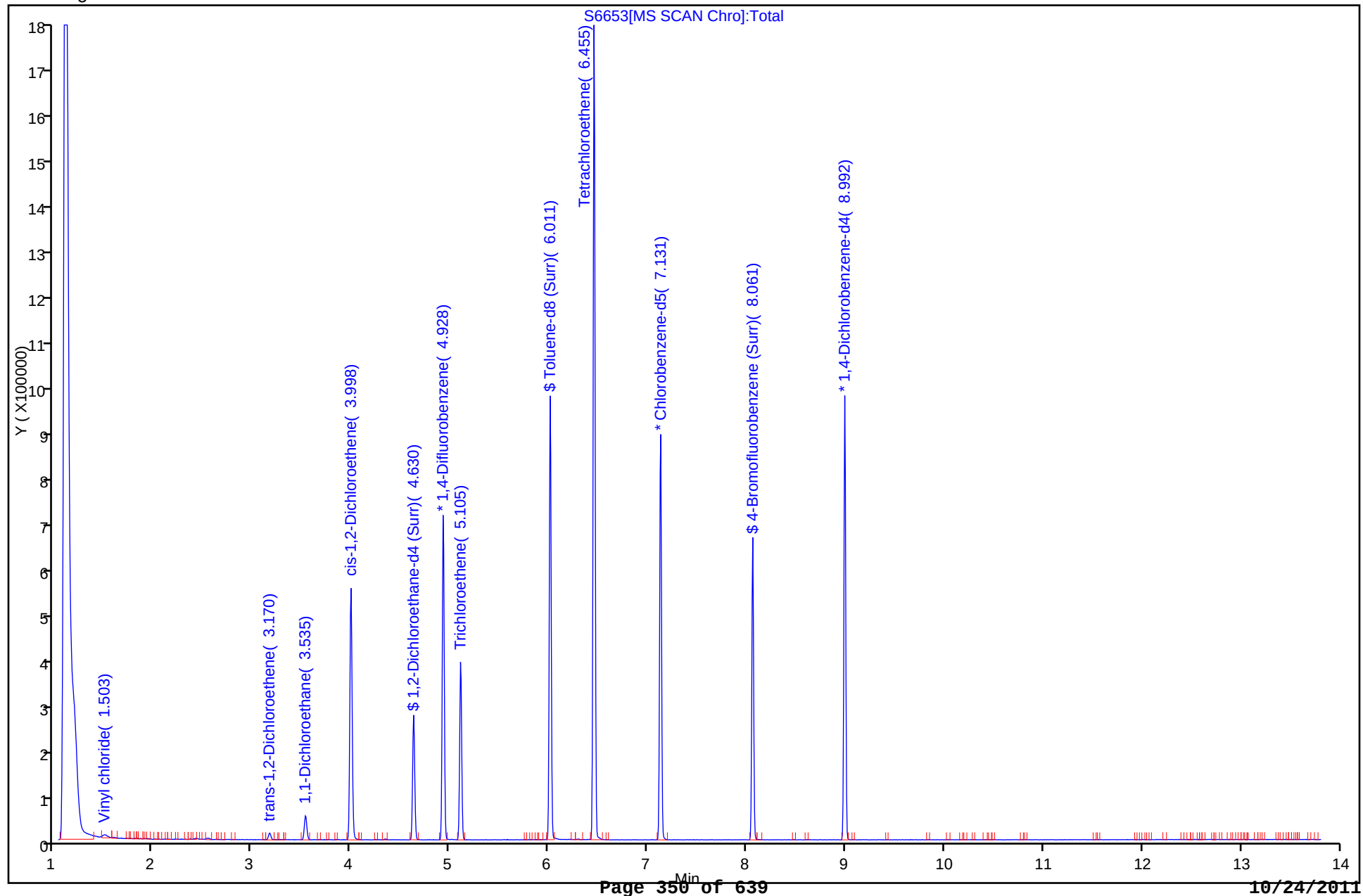
Lims Sample ID: 27

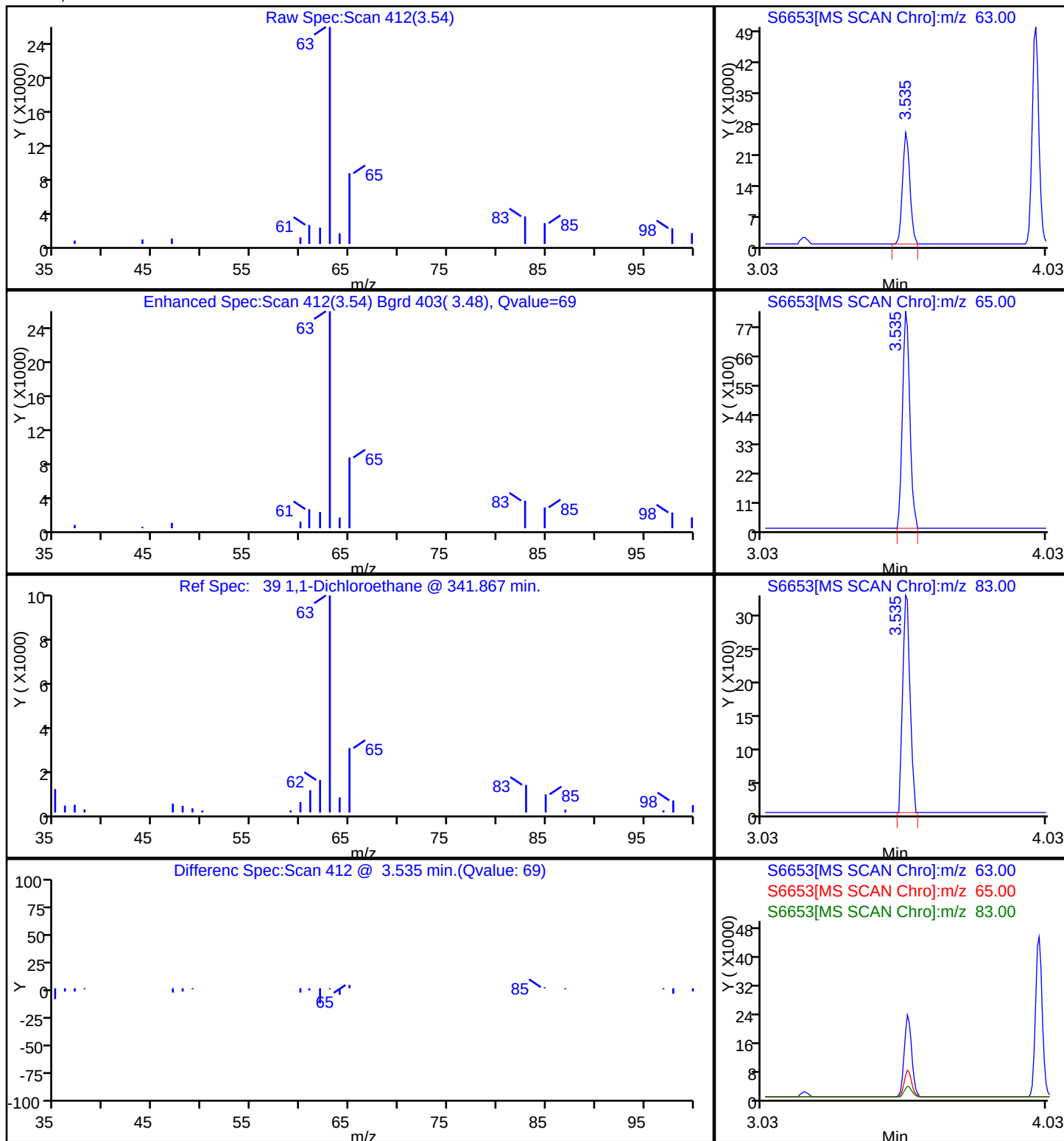
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:





Report Date: 06-Oct-2011 09:06:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D

Injection Date: 05-Oct-2011 19:10:30

Limit Group: MV - 8260B ICAL

Client ID: DUP-092811

Instrument ID: HP5973S

Lims Batch ID: 34016

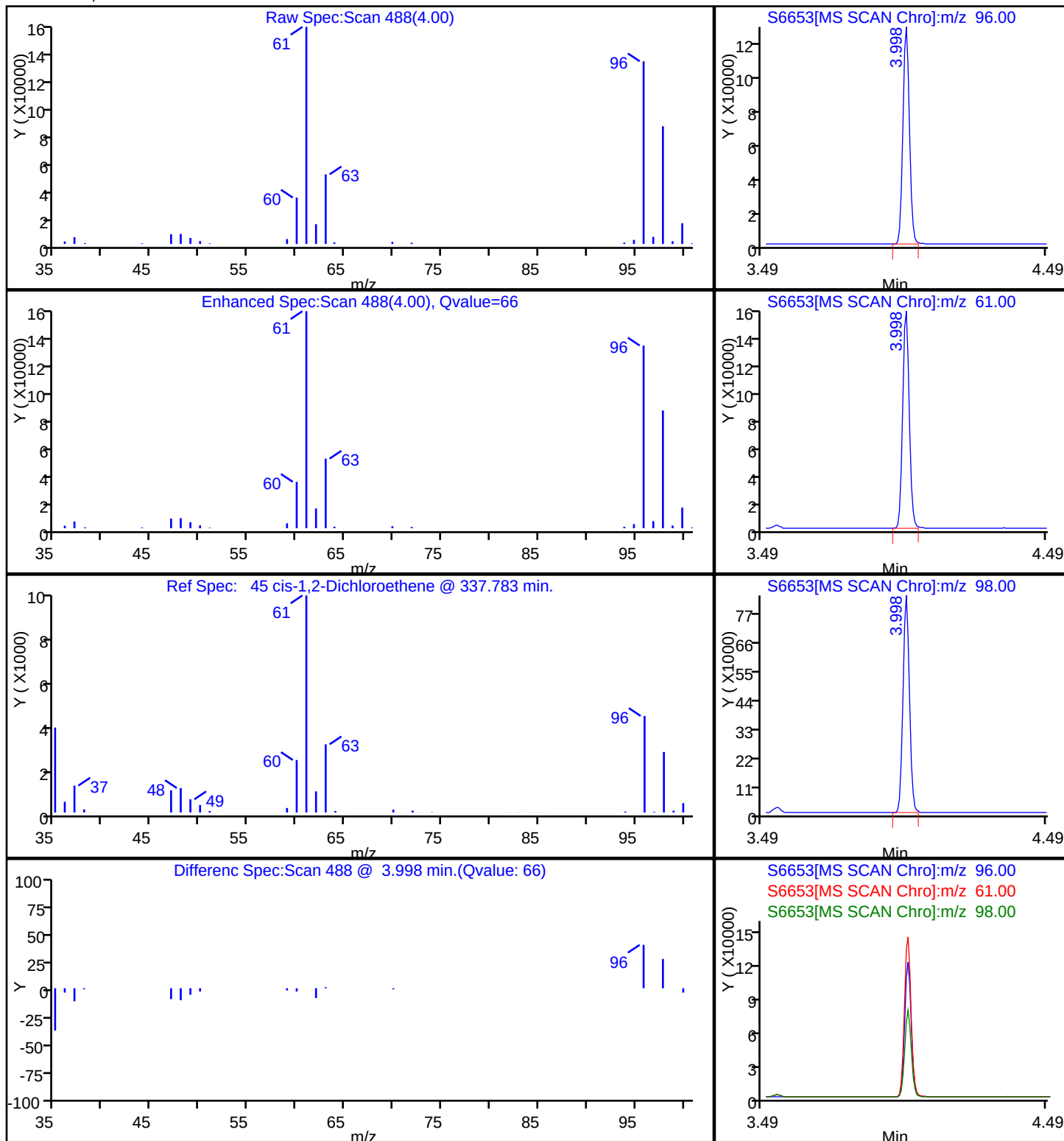
Lims Sample ID: 27

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

45 cis-1,2-Dichloroethene



Report Date: 06-Oct-2011 09:06:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D

Injection Date: 05-Oct-2011 19:10:30

Limit Group: MV - 8260B ICAL

Client ID: DUP-092811

Instrument ID: HP5973S

Lims Batch ID: 34016

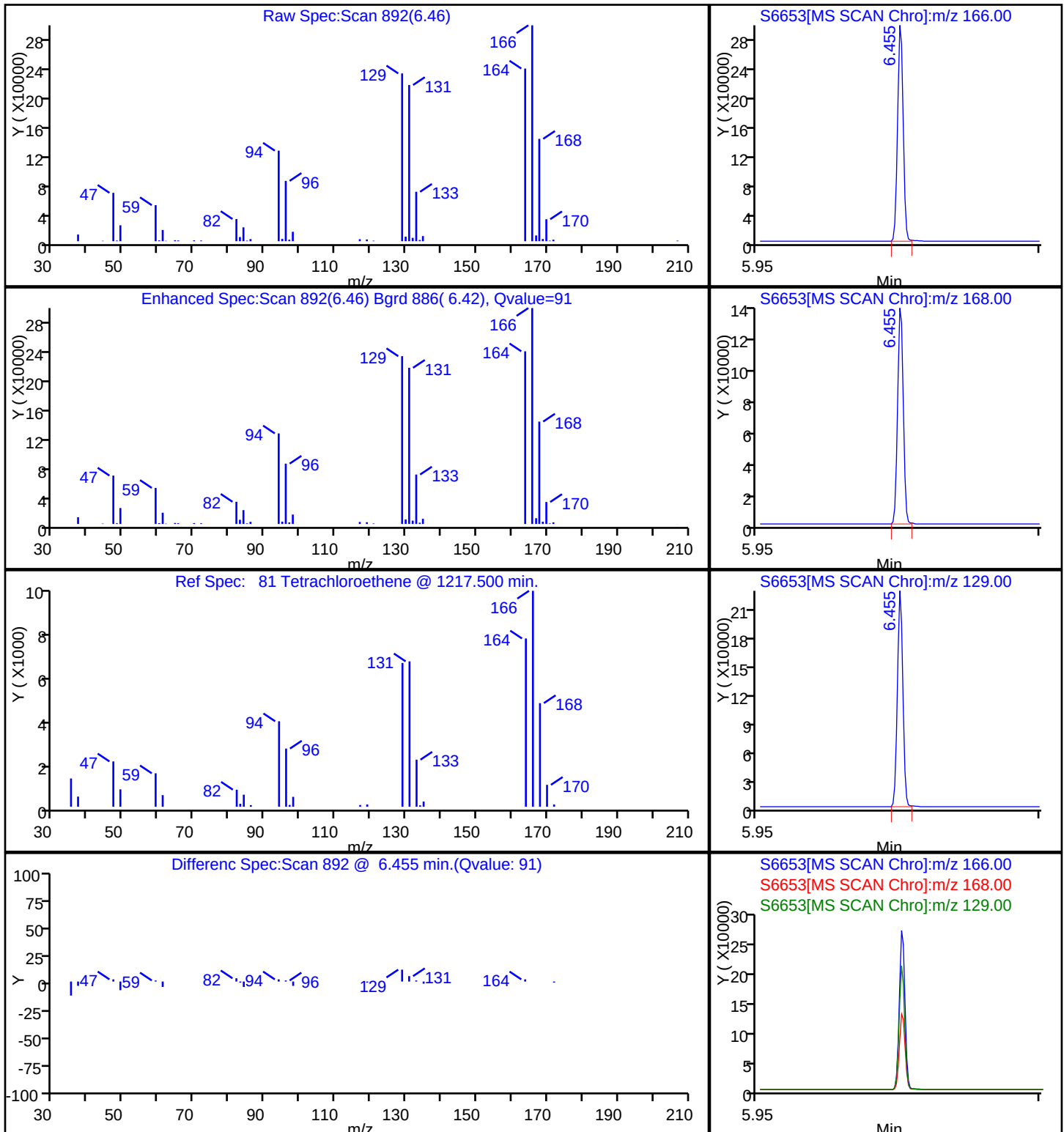
Lims Sample ID: 27

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

81 Tetrachloroethene



Report Date: 06-Oct-2011 09:06:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D

Injection Date: 05-Oct-2011 19:10:30

Limit Group: MV - 8260B ICAL

Client ID: DUP-092811

Instrument ID: HP5973S

Lims Batch ID: 34016

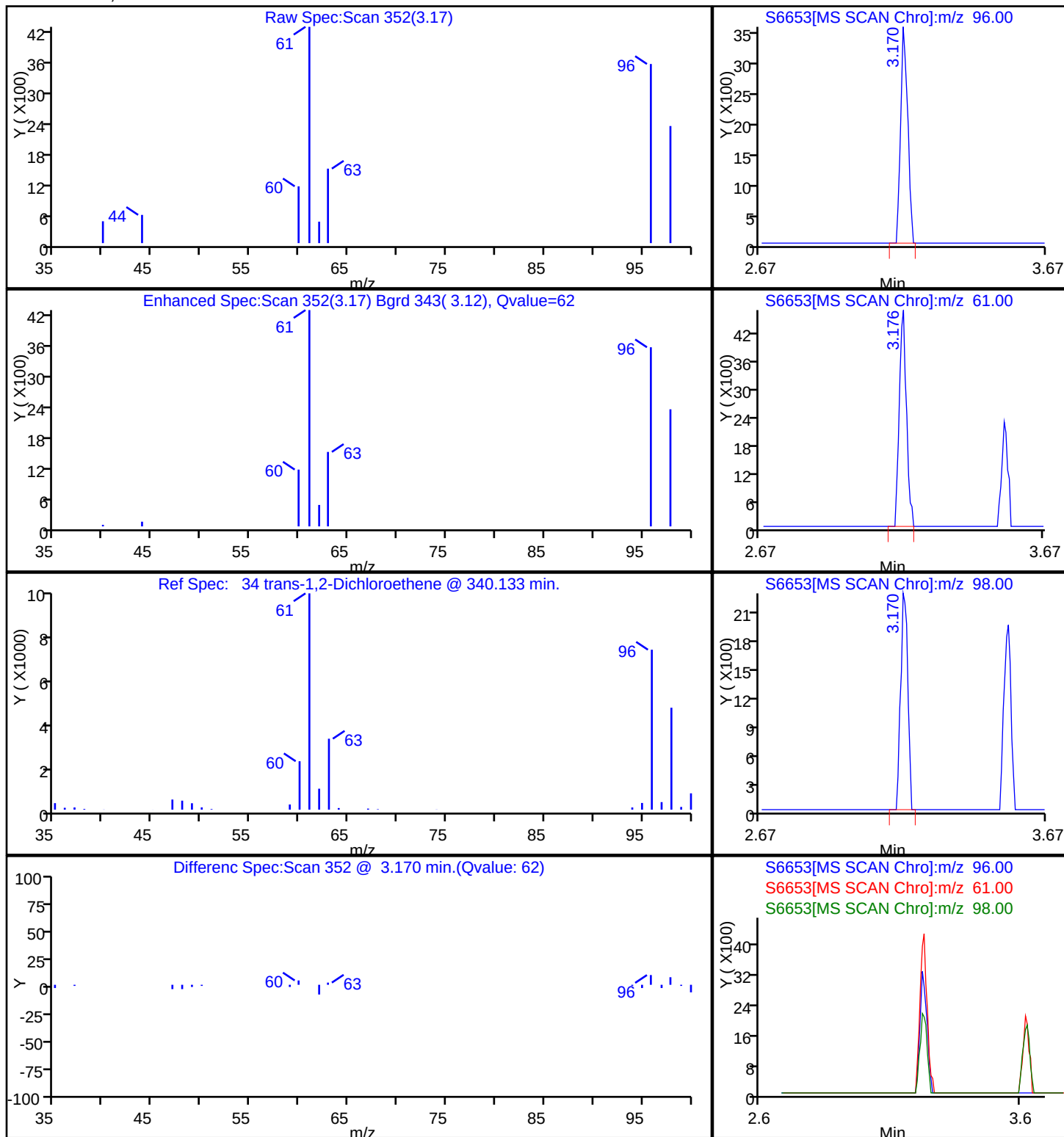
Lims Sample ID: 27

Operator ID: DHC

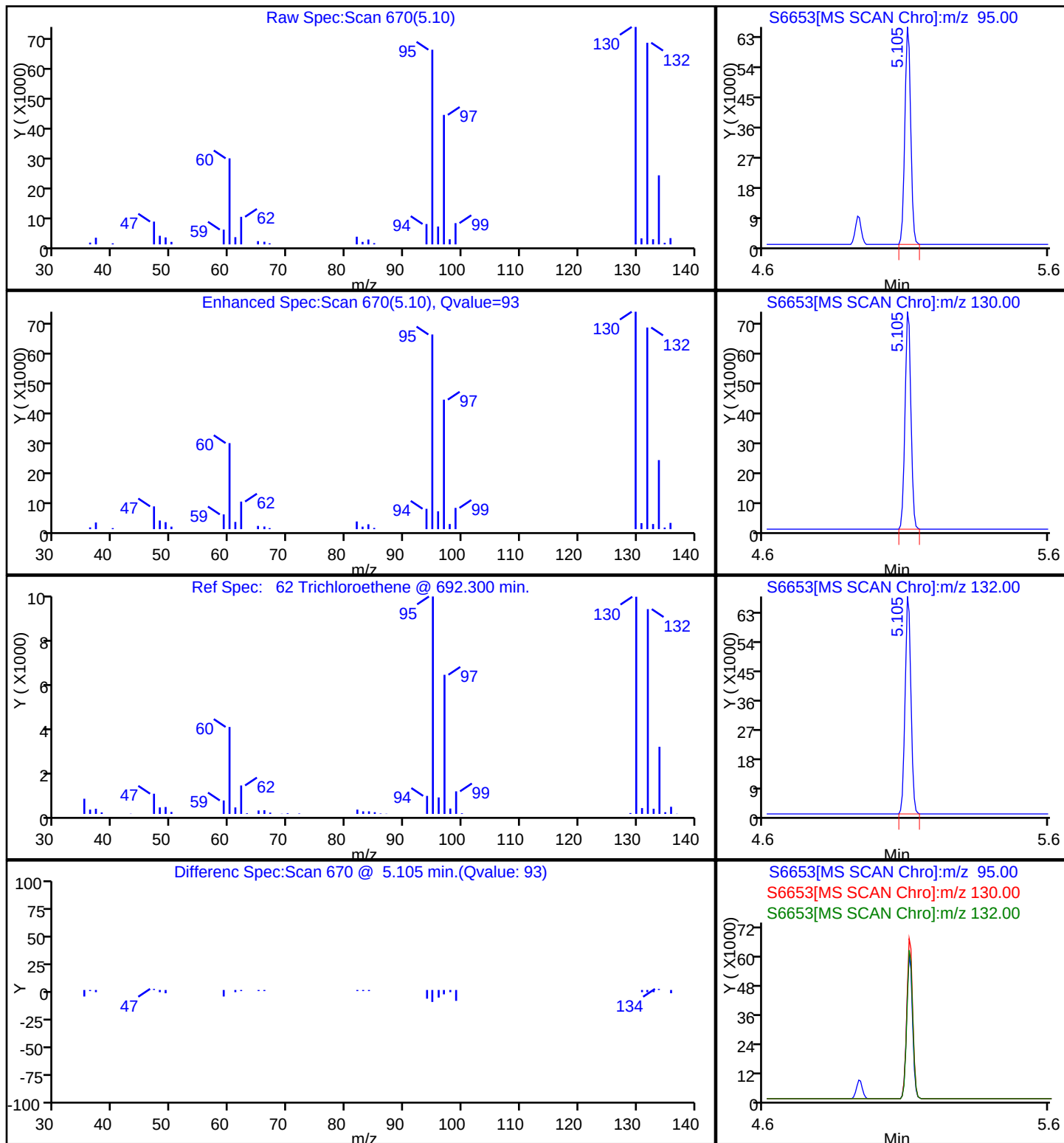
Column Type: ZB-624

Column Dia: 0.25 mm

34 trans-1,2-Dichloroethene



62 Trichloroethene



Report Date: 06-Oct-2011 09:06:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6653.D

Injection Date: 05-Oct-2011 19:10:30

Limit Group: MV - 8260B ICAL

Client ID: DUP-092811

Instrument ID: HP5973S

Lims Batch ID: 34016

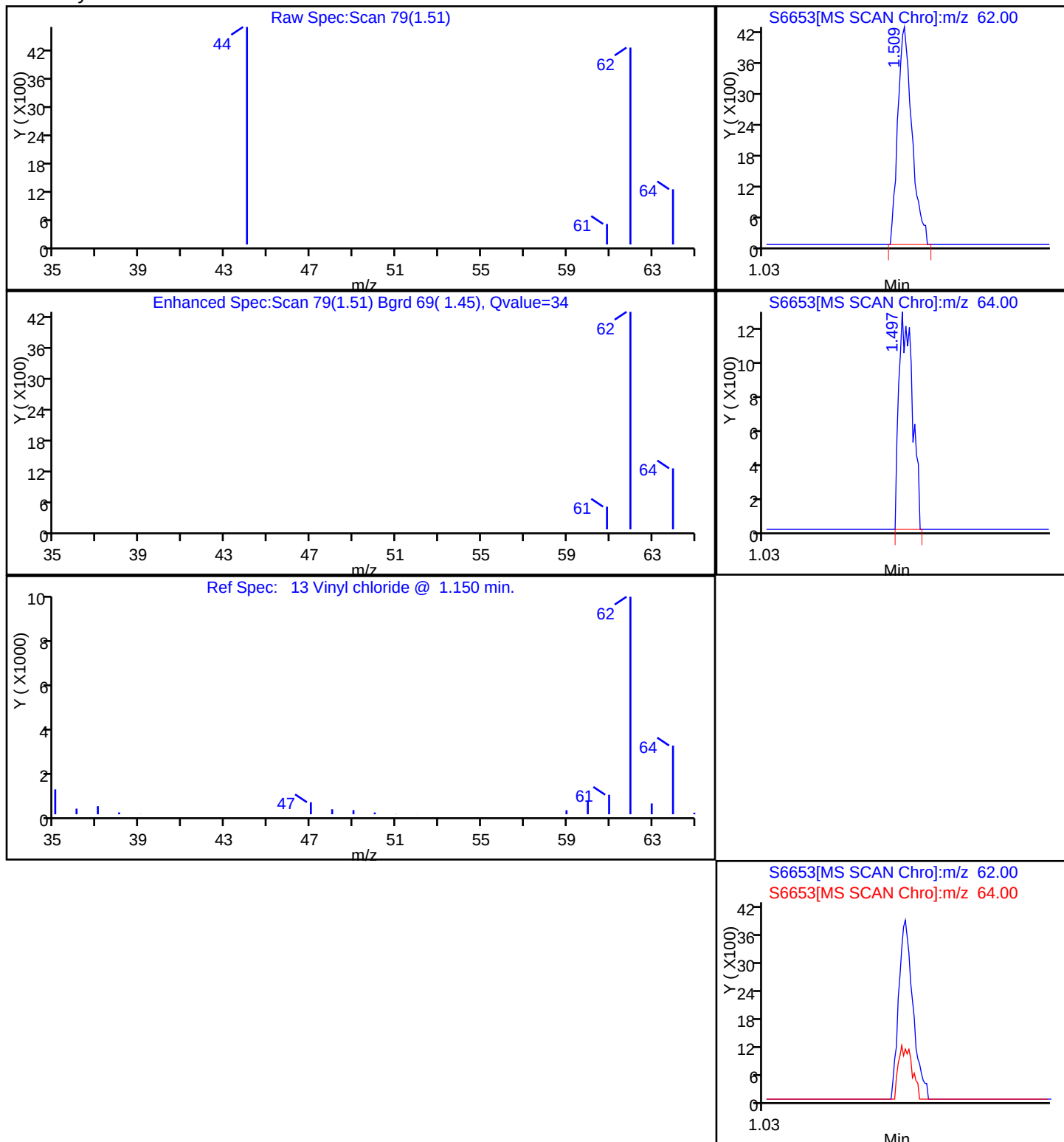
Lims Sample ID: 27

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

13 Vinyl chloride



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-32019/3	S6121.D
Level 2	STD 480-32019/4	S6122.D
Level 3	STD 480-32019/5	S6123.D
Level 4	STD 480-32019/6	S6124.D
Level 5	STD 480-32019/7	S6125.D
Level 6	STD 480-32019/8	S6126.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	0.1954 0.2494	0.2229	0.2135	0.2386	0.2375	Ave		0.2262				8.7		15.0			
Chloromethane	0.2417 0.2841	0.2697	0.2383	0.2783	0.2836	Ave		0.2659			0.1000	7.8		15.0			
Vinyl chloride	0.2580 0.2848	0.2778	0.2411	0.2878	0.2716	Ave		0.2702				6.6		30.0			
Bromomethane	0.0609 0.1019	0.0766	0.0712	0.0862	0.0779	QuaF		0.0645	0.0004						0.9980		0.9900
Chloroethane	0.1636 0.1516	0.1566	0.1289	0.1628	0.1334	Ave		0.1495				10.0		15.0			
Trichlorofluoromethane	0.1633 0.2945	0.2559	0.2305	0.2867	0.2790	Lin1F		0.2843							0.9960		0.9900
Acrolein	0.0115 0.0112	0.0093	0.0112	0.0097	0.0111	Ave		0.0106				8.6		15.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1881 0.2235	0.2228	0.2355	0.2126	0.2221	Ave		0.2174				7.4		15.0			
1,1-Dichloroethene	0.2574 0.2640	0.2460	0.2356	0.2527	0.2596	Ave		0.2525				4.1		30.0			
Acetone	0.1100 0.0881	0.0982	0.0976	0.0932	0.0919	Ave		0.0965				7.9		15.0			
Iodomethane	0.2292 0.2370	0.2533	0.2679	0.2605	0.2140	Ave		0.2436				8.4		15.0			
Carbon disulfide	0.6513 0.6778	0.6794	0.6852	0.6689	0.6750	Ave		0.6729				1.8		15.0			
Methyl acetate	0.4174 0.3935	0.4119	0.4321	0.4096	0.4167	Ave		0.4135				3.0		15.0			
Acetonitrile	0.0223 0.0176	0.0200	0.0193	0.0195	0.0184	Ave		0.0195				8.2		15.0			
Methylene Chloride	0.3609 0.2952	0.2975	0.2654	0.2997	0.2892	Ave		0.3013				11.0		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Methyl tert-butyl ether	0.7792 0.7920	0.7932	0.8534	0.8094	0.8189	Ave		0.8077				3.3		15.0			
trans-1,2-Dichloroethene	0.2782 0.2660	0.2839	0.2464	0.2843	0.2738	Ave		0.2721				5.3		15.0			
Acrylonitrile	0.1162 0.1115	0.1161	0.1231	0.1169	0.1167	Ave		0.1168				3.2		15.0			
1,1-Dichloroethane	0.4912 0.4710	0.4727	0.4249	0.4877	0.4682	Ave		0.4693			0.1000	5.0		15.0			
Vinyl acetate	0.3830 0.4524	0.4176	0.4583	0.4537	0.4677	Ave		0.4388				7.3		15.0			
2,2-Dichloropropane	0.2010 0.2105	0.2123	0.1903	0.2218	0.2077	Ave		0.2073				5.2		15.0			
cis-1,2-Dichloroethene	0.3015 0.2993	0.3031	0.2743	0.3159	0.3047	Ave		0.2998				4.6		15.0			
2-Butanone (MEK)	0.1565 0.1467	0.1548	0.1593	0.1521	0.1525	Ave		0.1537				2.8		15.0			
Bromochloromethane	0.1484 0.1435	0.1443	0.1310	0.1518	0.1459	Ave		0.1441				4.9		15.0			
Tetrahydrofuran	0.1024 0.0979	0.1015	0.1055	0.1010	0.1022	Ave		0.1018				2.4		15.0			
Chloroform	0.5537 0.4365	0.4738	0.4038	0.4570	0.4412	Ave		0.4610				11.0		30.0			
Cyclohexane	0.4672 0.4568	0.4858	0.5000	0.4638	0.4684	Ave		0.4737				3.4		15.0			
1,1,1-Trichloroethane	0.3096 0.3059	0.3163	0.2776	0.3213	0.3060	Ave		0.3061				5.0		15.0			
Carbon tetrachloride	0.2812 0.3133	0.2966	0.2623	0.3092	0.2987	Ave		0.2936				6.5		15.0			
1,1-Dichloropropene	0.3835 0.3671	0.3782	0.3313	0.3789	0.3637	Ave		0.3671				5.2		15.0			
Benzene	1.2039 1.1260	1.1847	1.0391	1.1870	1.1457	Ave		1.1477				5.3		15.0			
1,2-Dichloroethane	0.3451 0.3369	0.3413	0.3074	0.3531	0.3398	Ave		0.3373				4.6		15.0			
Trichloroethene	0.2807 0.2747	0.2847	0.2514	0.2837	0.2741	Ave		0.2749				4.5		15.0			
Methylcyclohexane	0.4878 0.4813	0.5164	0.5242	0.4895	0.4940	Ave		0.4989				3.5		15.0			
1,2-Dichloropropane	0.2821 0.2831	0.2806	0.2473	0.2918	0.2802	Ave		0.2775				5.5		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dibromomethane	0.1573 0.1606	0.1586	0.1428	0.1699	0.1619	Ave		0.1585				5.6		15.0			
Bromodichloromethane	0.3203 0.3416	0.3104	0.2841	0.3418	0.3330	Ave		0.3219				6.9		15.0			
2-Chloroethyl vinyl ether	0.1767 0.1811	0.1926	0.2000	0.1902	0.1927	Ave		0.1889				4.5		15.0			
cis-1,3-Dichloropropene	0.3770 0.4576	0.4098	0.3816	0.4627	0.4507	Ave		0.4232				9.2		15.0			
4-Methyl-2-pentanone (MIBK)	0.6251 0.6211	0.6605	0.7074	0.6737	0.6811	Ave		0.6615				5.1		15.0			
Toluene	1.7081 1.5495	1.6076	1.4473	1.6326	1.5569	Ave		1.5837				5.6		30.0			
trans-1,3-Dichloropropene	0.7411 0.9043	0.7653	0.7132	0.8805	0.8823	Ave		0.8144				10.0		15.0			
Ethyl methacrylate	0.6495 0.8619	0.7586	0.8663	0.8340	0.9039	Ave		0.8124				11.0		15.0			
1,1,2-Trichloroethane	0.4609 0.4630	0.4414	0.4138	0.4809	0.4646	Ave		0.4541				5.2		15.0			
Tetrachloroethene	0.6396 0.6128	0.6492	0.5820	0.6504	0.6170	Ave		0.6252				4.2		15.0			
1,3-Dichloropropane	0.9868 0.9676	0.9521	0.8700	0.9854	0.9680	Ave		0.9550				4.6		15.0			
2-Hexanone	0.4583 0.4587	0.4786	0.5152	0.4953	0.5010	Ave		0.4845				4.8		15.0			
Dibromochloromethane	0.4523 0.5762	0.4754	0.4506	0.5470	0.5530	Ave		0.5091				11.0		15.0			
1,2-Dibromoethane	0.5117 0.5543	0.5328	0.4902	0.5659	0.5569	Ave		0.5353				5.5		15.0			
Chlorobenzene	1.8578 1.7135	1.7556	1.5658	1.7877	1.7116	Ave		1.7320			0.3000	5.7		15.0			
Ethylbenzene	2.9844 2.7928	2.9743	2.6370	2.9267	2.8592	Ave		2.8624				4.6		30.0			
1,1,1,2-Tetrachloroethane	0.4916 0.5237	0.5183	0.4741	0.5504	0.5408	Ave		0.5165				5.6		15.0			
m,p-Xylene	1.1635 1.0913	1.1941	1.0406	1.1733	1.1360	Ave		1.1331				5.1		15.0			
o-Xylene	1.1052 1.0977	1.1214	1.0183	1.1523	1.1288	Ave		1.1039				4.2		15.0			
Styrene	1.8447 1.9355	1.9060	1.7434	2.0083	1.9874	Ave		1.9042				5.2		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Bromoform	0.2387 0.3708	0.2667	0.2535	0.3261	0.3505	Lin1F		0.3501			0.1000				0.9910		0.9900
Isopropylbenzene	2.9286 2.9049	2.9331	2.5978	2.9735	2.8495	Ave		2.8646				4.8		15.0			
Bromobenzene	0.7422 0.7169	0.7258	0.6550	0.7421	0.7085	Ave		0.7151				4.5		15.0			
1,1,2,2-Tetrachloroethane	0.7397 0.7615	0.7469	0.6606	0.7799	0.7591	Ave		0.7413			0.3000	5.6		15.0			
N-Propylbenzene	3.5507 3.4390	3.5379	3.1474	3.5948	3.4624	Ave		3.4554				4.7		15.0			
1,2,3-Trichloropropane	0.2186 0.2132	0.2371	0.2057	0.2332	0.2221	Ave		0.2217				5.4		15.0			
trans-1,4-Dichloro-2-butene	0.1014 0.1649	0.1237	0.1471	0.1568	0.1545	Lin1F		0.1588							0.9960		0.9900
2-Chlorotoluene	0.7228 0.7075	0.7215	0.6328	0.7330	0.6983	Ave		0.7026				5.2		15.0			
1,3,5-Trimethylbenzene	2.4536 2.4136	2.4643	2.1951	2.4974	2.3929	Ave		2.4028				4.5		15.0			
4-Chlorotoluene	0.7587 0.7453	0.7508	0.6643	0.7605	0.7403	Ave		0.7366				4.9		15.0			
tert-Butylbenzene	0.5348 0.5440	0.5437	0.4857	0.5655	0.5334	Ave		0.5345				5.0		15.0			
1,2,4-Trimethylbenzene	2.3963 2.4309	2.4712	2.2187	2.5449	2.4375	Ave		2.4166				4.5		15.0			
sec-Butylbenzene	3.1739 3.1764	3.2077	2.8523	3.3011	3.1429	Ave		3.1424				4.8		15.0			
1,3-Dichlorobenzene	1.4506 1.2864	1.4343	1.2660	1.4187	1.3355	Ave		1.3653				5.8		15.0			
4-Isopropyltoluene	2.6629 2.5762	2.6909	2.4222	2.7547	2.6119	Ave		2.6198				4.4		15.0			
1,4-Dichlorobenzene	1.5575 1.3923	1.4761	1.2867	1.4719	1.4182	Ave		1.4338				6.4		15.0			
n-Butylbenzene	2.3714 2.4626	2.4624	2.2100	2.5610	2.4700	Ave		2.4229				5.0		15.0			
1,2-Dichlorobenzene	1.4457 1.3300	1.3576	1.2143	1.4018	1.3237	Ave		1.3455				5.9		15.0			
1,2-Dibromo-3-Chloropropane	0.1031 0.1491	0.1063	0.1048	0.1389	0.1391	Lin1F		0.1415							0.9920		0.9900
1,2,4-Trichlorobenzene	0.9165 0.9470	0.9097	0.8446	1.0148	0.9735	Ave		0.9344				6.3		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUTION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Hexachlorobutadiene	0.2029 0.1720	0.1821	0.1619	0.1941	0.1839	Ave		0.1828				8.1		15.0			
Naphthalene	1.1084 1.3006	1.1655	1.0864	1.3879	1.3408	Ave		1.2316				10.0		15.0			
1,2,3-Trichlorobenzene	0.4060 0.3920	0.3932	0.3582	0.4361	0.4193	Ave		0.4008				6.7		15.0			
1,2-Dichloroethane-d4 (Surr)	0.1109 0.1156	0.1032	0.0994	0.1598	0.1310	QuaF		0.1510	0						0.9950		0.9900
Toluene-d8 (Surr)	1.4442 1.5546	1.3729	1.2832	2.3240	1.8006	QuaF		2.1474	-0.006						0.9920		0.9900
4-Bromofluorobenzene (Surr)	0.6371 0.6025	0.6040	0.5677	0.6883	0.6462	Ave		0.6243				6.7		15.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 480-32019/3	S6121.D
Level 2	STD 480-32019/4	S6122.D
Level 3	STD 480-32019/5	S6123.D
Level 4	STD 480-32019/6	S6124.D
Level 5	STD 480-32019/7	S6125.D
Level 6	STD 480-32019/8	S6126.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	DFB	Ave	4593 573749	25957	49797	137787	273539	1.00 100	5.00	10.0	25.0	50.0
Chloromethane	DFB	Ave	5682 653387	31406	55563	160702	326629	1.00 100	5.00	10.0	25.0	50.0
Vinyl chloride	DFB	Ave	6066 655221	32341	56227	166240	312715	1.00 100	5.00	10.0	25.0	50.0
Bromomethane	DFB	QuaF	1432 234440	8916	16593	49795	89732	1.00 100	5.00	10.0	25.0	50.0
Chloroethane	DFB	Ave	3847 348737	18234	30052	94010	153655	1.00 100	5.00	10.0	25.0	50.0
Trichlorofluoromethane	DFB	Lin1F	3839 677342	29800	53744	165597	321247	1.00 100	5.00	10.0	25.0	50.0
Acrolein	DFB	Ave	5403 513160	21621	52170	111864	254975	20.0 2000	100	200	500	1000
1,1,2-Trichloro-1,2,2-trifluoroethane	DFB	Ave	4423 514013	25946	54907	122797	255798	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloroethene	DFB	Ave	6051 607191	28643	54942	145951	298952	1.00 100	5.00	10.0	25.0	50.0
Acetone	DFB	Ave	12933 1012728	57167	113781	269077	529103	5.00 500	25.0	50.0	125	250
Iodomethane	DFB	Ave	5389 545062	29487	62473	150460	246444	1.00 100	5.00	10.0	25.0	50.0
Carbon disulfide	DFB	Ave	15312 1559132	79099	159792	386302	777277	1.00 100	5.00	10.0	25.0	50.0
Methyl acetate	DFB	Ave	9814 905099	47958	100766	236548	479827	1.00 100	5.00	10.0	25.0	50.0
Acetonitrile	DFB	Ave	20932 1619124	93176	180138	449566	848559	40.0 4000	200	400	1000	2000
Methylene Chloride	DFB	Ave	8484 679054	34644	61896	173059	333031	1.00 100	5.00	10.0	25.0	50.0
Methyl tert-butyl ether	DFB	Ave	18319 1821766	92360	199008	467425	943057	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
trans-1,2-Dichloroethene	DFB	Ave	6541 611963	33056	57459	164173	315249	1.00 100	5.00	10.0	25.0	50.0
Acrylonitrile	DFB	Ave	13661 1282232	67611	143478	337571	672165	5.00 500	25.0	50.0	125	250
1,1-Dichloroethane	DFB	Ave	11548 1083306	55033	99087	281638	539154	1.00 100	5.00	10.0	25.0	50.0
Vinyl acetate	DFB	Ave	45026 5202634	243100	534390	1310094	2692897	5.00 500	25.0	50.0	125	250
2,2-Dichloropropane	DFB	Ave	4726 484230	24714	44369	128082	239151	1.00 100	5.00	10.0	25.0	50.0
cis-1,2-Dichloroethene	DFB	Ave	7089 688363	35291	63957	182453	350883	1.00 100	5.00	10.0	25.0	50.0
2-Butanone (MEK)	DFB	Ave	18399 1686799	90135	185755	439280	878074	5.00 500	25.0	50.0	125	250
Bromochloromethane	DFB	Ave	3488 330126	16803	30538	87644	168017	1.00 100	5.00	10.0	25.0	50.0
Tetrahydrofuran	DFB	Ave	12032 1125833	59110	123060	291735	588430	5.00 500	25.0	50.0	125	250
Chloroform	DFB	Ave	13018 1004029	55163	94170	263916	508090	1.00 100	5.00	10.0	25.0	50.0
Cyclohexane	DFB	Ave	10983 1050818	56561	116586	267856	539424	1.00 100	5.00	10.0	25.0	50.0
1,1,1-Trichloroethane	DFB	Ave	7278 703555	36831	64726	185540	352413	1.00 100	5.00	10.0	25.0	50.0
Carbon tetrachloride	DFB	Ave	6612 720603	34539	61172	178598	344016	1.00 100	5.00	10.0	25.0	50.0
1,1-Dichloropropene	DFB	Ave	9016 844370	44037	77265	218815	418887	1.00 100	5.00	10.0	25.0	50.0
Benzene	DFB	Ave	28304 2590073	137941	242303	685548	1319350	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane	DFB	Ave	8113 774879	39736	71684	203924	391276	1.00 100	5.00	10.0	25.0	50.0
Trichloroethene	DFB	Ave	6599 631841	33150	58626	163864	315698	1.00 100	5.00	10.0	25.0	50.0
Methylcyclohexane	DFB	Ave	11469 1107138	60129	122237	282699	568903	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloropropane	DFB	Ave	6632 651135	32672	57672	168540	322686	1.00 100	5.00	10.0	25.0	50.0
Dibromomethane	DFB	Ave	3697 369345	18468	33288	98117	186463	1.00 100	5.00	10.0	25.0	50.0
Bromodichloromethane	DFB	Ave	7531 785841	36145	66249	197405	383452	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
2-Chloroethyl vinyl ether	DFB	Ave	20766 2082473	112118	233174	549196	1109436	5.00 500	25.0	50.0	125	250
cis-1,3-Dichloropropene	DFB	Ave	8863 1052629	47715	88979	267242	519047	1.00 100	5.00	10.0	25.0	50.0
4-Methyl-2-pentanone (MIBK)	CBZ	Ave	34536 3314853	180383	380120	913355	1813746	5.00 500	25.0	50.0	125	250
Toluene	CBZ	Ave	18873 1653850	87806	155536	442677	829242	1.00 100	5.00	10.0	25.0	50.0
trans-1,3-Dichloropropene	CBZ	Ave	8188 965156	41801	76641	238736	469924	1.00 100	5.00	10.0	25.0	50.0
Ethyl methacrylate	CBZ	Ave	7176 919965	41436	93092	226124	481433	1.00 100	5.00	10.0	25.0	50.0
1,1,2-Trichloroethane	CBZ	Ave	5093 494136	24109	44470	130400	247445	1.00 100	5.00	10.0	25.0	50.0
Tetrachloroethene	CBZ	Ave	7067 654076	35459	62548	176345	328634	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichloropropane	CBZ	Ave	10903 1032784	52001	93495	267194	515568	1.00 100	5.00	10.0	25.0	50.0
2-Hexanone	CBZ	Ave	25319 2448129	130714	276845	671486	1334165	5.00 500	25.0	50.0	125	250
Dibromochloromethane	CBZ	Ave	4997 614962	25965	48424	148305	294517	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromoethane	CBZ	Ave	5654 591611	29102	52677	153436	296632	1.00 100	5.00	10.0	25.0	50.0
Chlorobenzene	CBZ	Ave	20527 1828882	95888	168262	484726	911615	1.00 100	5.00	10.0	25.0	50.0
Ethylbenzene	CBZ	Ave	32974 2980916	162455	283380	793556	1522817	1.00 100	5.00	10.0	25.0	50.0
1,1,1,2-Tetrachloroethane	CBZ	Ave	5432 559015	28311	50951	149229	288027	1.00 100	5.00	10.0	25.0	50.0
m,p-Xylene	CBZ	Ave	25711 2329553	130441	223653	636265	1210064	2.00 200	10.0	20.0	50.0	100
o-Xylene	CBZ	Ave	12211 1171609	61248	109429	312453	601186	1.00 100	5.00	10.0	25.0	50.0
Styrene	CBZ	Ave	20382 2065825	104107	187355	544539	1058526	1.00 100	5.00	10.0	25.0	50.0
Bromoform	CBZ	Lin1F	2637 395768	14569	27246	88416	186672	1.00 100	5.00	10.0	25.0	50.0
Isopropylbenzene	DCB	Ave	31943 3023238	159439	279919	799300	1542274	1.00 100	5.00	10.0	25.0	50.0
Bromobenzene	DCB	Ave	8095 746133	39456	70583	199491	383465	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1,2,2-Tetrachloroethane	DCB	Ave	8068 792550	40598	71183	209631	410828	1.00 100	5.00	10.0	25.0	50.0
N-Propylbenzene	DCB	Ave	38728 3579098	192315	339138	966307	1873994	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichloropropane	DCB	Ave	2384 221894	12889	22168	62691	120208	1.00 100	5.00	10.0	25.0	50.0
trans-1,4-Dichloro-2-butene	DCB	Lin1F	5532 858275	33614	79235	210728	418019	5.00 500	25.0	50.0	125	250
2-Chlorotoluene	DCB	Ave	7884 736306	39218	68189	197023	377944	1.00 100	5.00	10.0	25.0	50.0
1,3,5-Trimethylbenzene	DCB	Ave	26762 2511974	133955	236532	671309	1295143	1.00 100	5.00	10.0	25.0	50.0
4-Chlorotoluene	DCB	Ave	8275 775663	40811	71575	204427	400699	1.00 100	5.00	10.0	25.0	50.0
tert-Butylbenzene	DCB	Ave	5833 566153	29555	52333	152016	288702	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trimethylbenzene	DCB	Ave	26137 2529955	134329	239070	684075	1319251	1.00 100	5.00	10.0	25.0	50.0
sec-Butylbenzene	DCB	Ave	34619 3305830	174367	307345	887354	1701069	1.00 100	5.00	10.0	25.0	50.0
1,3-Dichlorobenzene	DCB	Ave	15822 1338809	77968	136410	381362	722831	1.00 100	5.00	10.0	25.0	50.0
4-Isopropyltoluene	DCB	Ave	29045 2681188	146275	260994	740471	1413640	1.00 100	5.00	10.0	25.0	50.0
1,4-Dichlorobenzene	DCB	Ave	16988 1449085	80238	138650	395656	767559	1.00 100	5.00	10.0	25.0	50.0
n-Butylbenzene	DCB	Ave	25866 2562919	133854	238138	688418	1336833	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichlorobenzene	DCB	Ave	15769 1384192	73797	130849	376819	716450	1.00 100	5.00	10.0	25.0	50.0
1,2-Dibromo-3-Chloropropane	DCB	Lin1F	1124 155203	5778	11297	37343	75280	1.00 100	5.00	10.0	25.0	50.0
1,2,4-Trichlorobenzene	DCB	Ave	9996 985620	49450	91010	272784	526904	1.00 100	5.00	10.0	25.0	50.0
Hexachlorobutadiene	DFB	Ave	4769 395556	21198	37763	112080	211793	1.00 100	5.00	10.0	25.0	50.0
Naphthalene	DFB	Ave	26058 2991601	135698	253343	801538	1544049	1.00 100	5.00	10.0	25.0	50.0
1,2,3-Trichlorobenzene	DFB	Ave	9544 901634	45783	83535	251847	482812	1.00 100	5.00	10.0	25.0	50.0
1,2-Dichloroethane-d4 (Surr)	DFB	QuaF	2608 266003	12015	23181	92284	150876	1.00 100	5.00	10.0	25.0	50.0

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32019

SDG No.: _____

Instrument ID: HP5973S GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 14:39 Calibration End Date: 09/20/2011 16:29 Calibration ID: 3899

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBZ	QuaF	15957 1659295	74987	137899	630136	959029	1.00 100	5.00	10.0	25.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	7039 643075	32991	61009	186620	344174	1.00 100	5.00	10.0	25.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1F = Linear 1/conc ISTD forced zero
QuaF = Quadratic ISTD forced zero

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6121.D
 Lims ID: STD Client ID:
 Inject. Date: 20-Sep-2011 14:39:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 1
 Sample ID: STD
 Misc. Info.: 480-0006101-003 =480-0006101-003
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 8
 Lims Batch ID: 32019 Lims Sample ID: 3
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:26:40 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:26:40

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	587747	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	276224	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	95	272682	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	35	2608	0.7361	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	66	15957	0.6738	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	59	7039	1.02	
10 Dichlorodifluoromethane	85	1.260	1.266	-0.006	1	4593	0.8636	
12 Chloromethane	50	1.394	1.400	-0.006	56	5682	0.9088	
13 Vinyl chloride	62	1.497	1.503	-0.006	25	6066	0.9549	
14 Bromomethane	94	1.759	1.759	0.0	0	1432	0.9391	M
15 Chloroethane	64	1.862	1.881	-0.019	13	3847	1.09	
17 Trichlorofluoromethane	101	2.093	2.100	-0.007	20	3839	0.5743	
20 Acrolein	56	2.489	2.489	0.0	41	5403	21.6	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.562	2.562	0.0	1	4423	0.8652	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	61	6051	1.02	
23 Acetone	43	2.647	2.641	0.006	83	12933	5.70	
25 Iodomethane	142	2.714	2.708	0.006	24	5389	0.9408	
26 Carbon disulfide	76	2.732	2.726	0.006	76	15312	0.9679	
27 Methyl acetate	43	2.909	2.903	0.006	93	9814	1.01	
29 Acetonitrile	40	2.927	2.927	0.0	100	20932	45.6	
30 Methylene Chloride	84	3.030	3.024	0.006	52	8484	1.20	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	84	18319	0.9647	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	41	6541	1.02	
33 Acrylonitrile	53	3.243	3.243	0.0	79	13661	4.98	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	48	11548	1.05	
37 Vinyl acetate	43	3.590	3.590	0.0	95	45026	4.36	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	50	4726	0.9699	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	25	7089	1.01	
43 2-Butanone (MEK)	43	4.052	4.040	0.012	95	18399	5.09	
48 Chlorobromomethane	128	4.186	4.192	-0.006	71	3488	1.03	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.223	4.211	0.012	83	12032	5.03	
50 Chloroform	83	4.247	4.253	-0.006	61	13018	1.20	
51 1,1,1-Trichloroethane	97	4.344	4.344	0.0	57	7278	1.01	
52 Cyclohexane	56	4.338	4.344	-0.006	66	10983	0.9863	
55 Carbon tetrachloride	117	4.448	4.448	0.0	63	6612	0.9580	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	56	9016	1.04	
57 Benzene	78	4.630	4.630	0.0	91	28304	1.05	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	50	8113	1.02	
62 Trichloroethene	95	5.105	5.105	0.0	71	6599	1.02	
64 Methylcyclohexane	83	5.196	5.196	0.0	68	11469	0.9779	
65 1,2-Dichloropropane	63	5.300	5.306	-0.006	61	6632	1.02	
67 Dibromomethane	93	5.403	5.403	0.0	74	3697	0.99	
68 Dichlorobromomethane	83	5.519	5.519	0.0	60	7531	1.00	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	81	20766	4.68	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	54	8863	0.8907	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	92	34536	4.73	
74 Toluene	92	6.060	6.060	0.0	83	18873	1.08	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	62	8188	0.9099	
75 Ethyl methacrylate	69	6.303	6.303	0.0	47	7176	0.7995	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	60	5093	1.02	
81 Tetrachloroethene	166	6.455	6.455	0.0	71	7067	1.02	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	61	10903	1.03	
80 2-Hexanone	43	6.595	6.589	0.006	92	25319	4.73	
83 Chlorodibromomethane	129	6.717	6.717	0.0	34	4997	0.8884	
84 Ethylene Dibromide	107	6.802	6.802	0.0	41	5654	0.9559	
87 Chlorobenzene	112	7.149	7.149	0.0	70	20527	1.07	
88 Ethylbenzene	91	7.216	7.216	0.0	83	32974	1.04	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	13	5432	0.9519	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	25711	2.05	
91 o-Xylene	106	7.623	7.623	0.0	83	12211	1.00	
92 Styrene	104	7.648	7.648	0.0	81	20382	0.9687	
95 Bromoform	173	7.830	7.836	-0.006	33	2637	0.6818	
94 Isopropylbenzene	105	7.909	7.909	0.0	79	31943	1.02	
101 Bromobenzene	156	8.183	8.183	0.0	74	8095	1.04	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	38	8068	1.00	
99 N-Propylbenzene	91	8.238	8.244	-0.006	94	38728	1.03	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	54	2384	0.9861	
98 trans-1,4-Dichloro-2-butene	53	8.262	8.256	0.006	67	5532	3.19	
103 2-Chlorotoluene	126	8.329	8.329	0.0	83	7884	1.03	
102 1,3,5-Trimethylbenzene	105	8.378	8.384	-0.006	78	26762	1.02	
105 4-Chlorotoluene	126	8.414	8.414	0.0	79	8275	1.03	
106 tert-Butylbenzene	134	8.646	8.645	0.001	74	5833	1.00	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	53	26137	0.99	
109 sec-Butylbenzene	105	8.822	8.822	0.0	74	34619	1.01	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	53	15822	1.06	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	86	29045	1.02	
113 1,4-Dichlorobenzene	146	9.017	9.011	0.007	71	16988	1.09	
115 n-Butylbenzene	91	9.278	9.278	0.0	82	25866	0.9788	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	83	15769	1.07	
117 1,2-Dibromo-3-Chloropropane	75	10.002	9.996	0.006	1	1124	0.7284	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	50	9996	0.9808	
120 Hexachlorobutadiene	225	10.750	10.750	0.0	44	4769	1.11	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	74	26058	0.9000	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.0	59	9544	1.01	
S 123 Total BTEX	1				0		6.22	
S 124 Xylenes, Total	1				0		3.05	
S 125 1,2-Dichloroethene, Total	1				0		2.03	
S 126 1,3-Dichloropropene, Total	1				0		1.80	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 21-Sep-2011 09:26:40

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6121.D

Injection Date: 20-Sep-2011 14:39:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

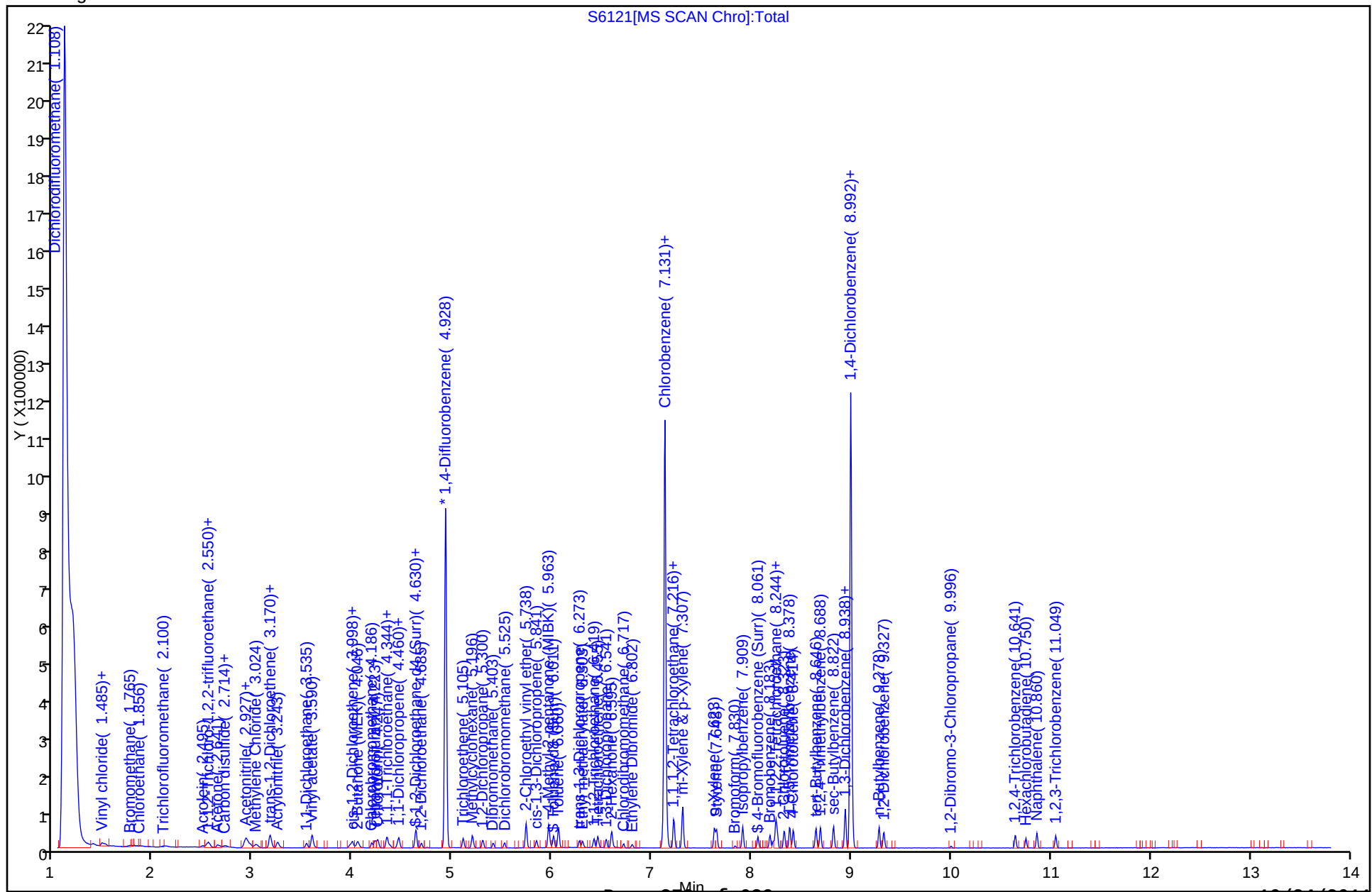
Lims Sample ID: 3

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:

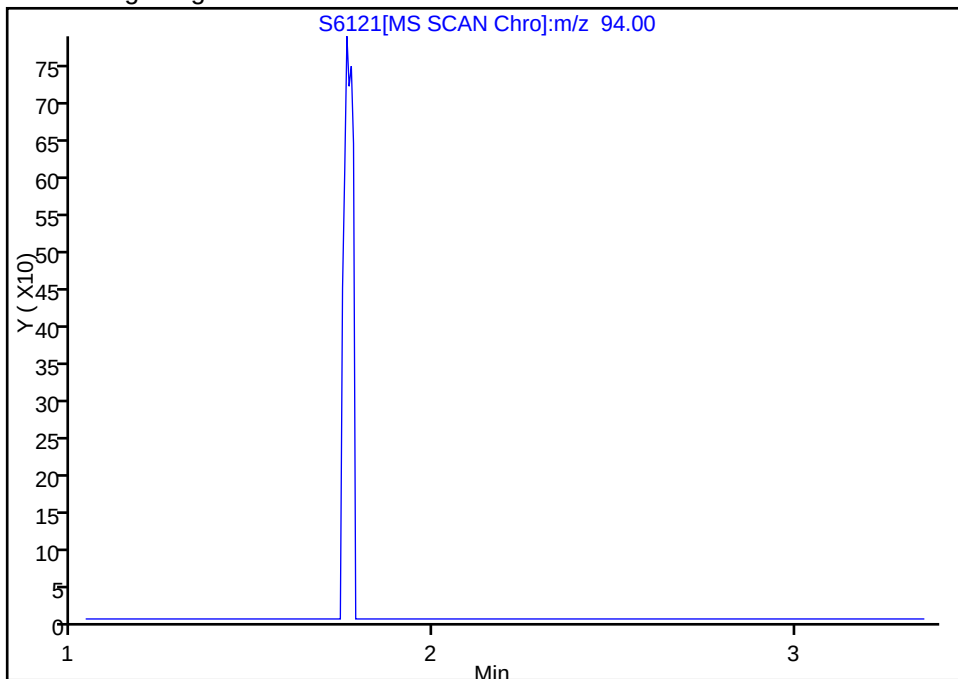


Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6121.D
Injection Date: 20-Sep-2011 14:39:30 Limit Group: MV - 8260B ICAL
Client ID: Instrument ID: HP5973S
Lims Batch ID: 32019 Lims Sample ID: 3
Operator ID: DHC
Column Type: ZB-624 Column Dia: 0.25 mm

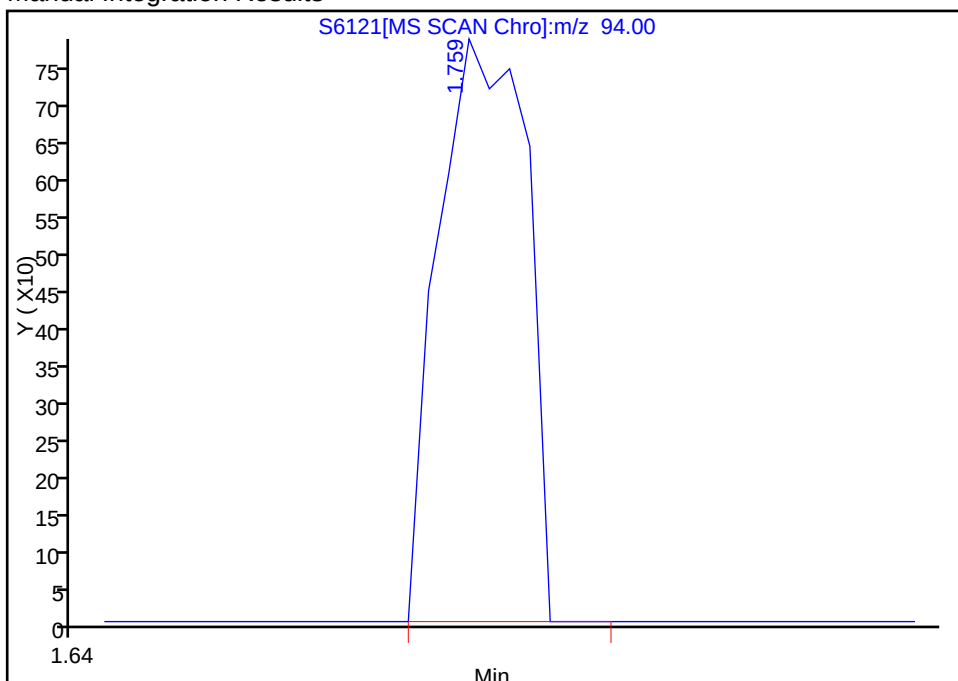
14 Bromomethane, Signal: 1, m/z: 94.0 Type: quant, RT: 1.76

Not Detected
Expected RT: 1.76

Processing Integration Results



Manual Integration Results



RT: 1.76
Response: 1432
Amount: 0.939122

Reviewer: coderd, 21-Sep-2011 09:26:40
Audit Action: Manually Integrated
Audit Reason: Assign Peak

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6122.D
 Lims ID: STD-2 Client ID:
 Inject. Date: 20-Sep-2011 15:00:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 2
 Sample ID: STD-2
 Misc. Info.: 480-0006101-004 =480-0006101-004
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 9
 Lims Batch ID: 32019 Lims Sample ID: 4
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:26:53 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:26:53

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	582166	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	273097	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	271793	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.001	41	12015	3.45	
\$ 5 Toluene-d8 (Surr)	98	6.012	6.011	0.001	82	74987	3.23	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	84	32991	4.84	
10 Dichlorodifluoromethane	85	1.254	1.266	-0.012	66	25957	4.93	
12 Chloromethane	50	1.394	1.400	-0.006	83	31406	5.07	
13 Vinyl chloride	62	1.498	1.503	-0.005	68	32341	5.14	
14 Bromomethane	94	1.771	1.759	0.012	73	8916	5.75	
15 Chloroethane	64	1.887	1.881	0.006	40	18234	5.24	
17 Trichlorofluoromethane	101	2.100	2.100	0.0	62	29800	4.50	
20 Acrolein	56	2.489	2.489	0.0	89	21621	87.2	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	82	28643	4.87	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.562	-0.012	38	25946	5.12	
23 Acetone	43	2.641	2.641	0.0	96	57167	25.4	
25 Iodomethane	142	2.708	2.708	0.0	62	29487	5.20	
26 Carbon disulfide	76	2.726	2.726	0.0	92	79099	5.05	
27 Methyl acetate	43	2.903	2.903	0.0	94	47958	4.98	
29 Acetonitrile	40	2.927	2.927	0.0	98	93176	205.1	
30 Methylene Chloride	84	3.024	3.024	0.0	73	34644	4.94	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	90	92360	4.91	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	63	33056	5.22	
33 Acrylonitrile	53	3.243	3.243	0.0	99	67611	24.9	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	70	55033	5.04	
37 Vinyl acetate	43	3.590	3.590	0.0	97	243100	23.8	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	83	24714	5.12	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	64	35291	5.06	
43 2-Butanone (MEK)	43	4.047	4.040	0.007	100	90135	25.2	
48 Chlorobromomethane	128	4.186	4.192	-0.006	87	16803	5.01	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.217	4.211	0.006	88	59110	24.9	
50 Chloroform	83	4.253	4.253	0.0	67	55163	5.14	
51 1,1,1-Trichloroethane	97	4.345	4.344	0.001	80	36831	5.17	
52 Cyclohexane	56	4.345	4.344	0.001	85	56561	5.13	
55 Carbon tetrachloride	117	4.448	4.448	0.0	76	34539	5.05	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	93	44037	5.15	
57 Benzene	78	4.631	4.630	0.001	96	137941	5.16	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	39736	5.06	
62 Trichloroethene	95	5.105	5.105	0.0	90	33150	5.18	
64 Methylcyclohexane	83	5.196	5.196	0.0	88	60129	5.18	
65 1,2-Dichloropropane	63	5.306	5.306	0.0	92	32672	5.06	
67 Dibromomethane	93	5.403	5.403	0.0	82	18468	5.00	
68 Dichlorobromomethane	83	5.519	5.519	0.0	89	36145	4.82	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	91	112118	25.5	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	78	47715	4.84	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	95	180383	25.0	
74 Toluene	92	6.060	6.060	0.0	91	87806	5.08	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	84	41801	4.70	
75 Ethyl methacrylate	69	6.304	6.303	0.001	69	41436	4.67	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	79	24109	4.86	
81 Tetrachloroethene	166	6.456	6.455	0.001	82	35459	5.19	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	87	52001	4.98	
80 2-Hexanone	43	6.596	6.589	0.007	95	130714	24.7	
83 Chlorodibromomethane	129	6.717	6.717	0.0	79	25965	4.67	
84 Ethylene Dibromide	107	6.802	6.802	0.0	89	29102	4.98	
87 Chlorobenzene	112	7.149	7.149	0.0	84	95888	5.07	
88 Ethylbenzene	91	7.216	7.216	0.0	98	162455	5.20	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	35	28311	5.02	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	130441	10.5	
91 o-Xylene	106	7.624	7.623	0.001	95	61248	5.08	
92 Styrene	104	7.648	7.648	0.0	94	104107	5.00	
95 Bromoform	173	7.837	7.836	0.001	88	14569	3.81	
94 Isopropylbenzene	105	7.910	7.909	0.001	94	159439	5.12	
101 Bromobenzene	156	8.183	8.183	0.0	90	39456	5.08	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	78	40598	5.04	
99 N-Propylbenzene	91	8.238	8.244	-0.006	77	192315	5.12	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	59	12889	5.35	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	80	33614	19.5	
103 2-Chlorotoluene	126	8.323	8.329	-0.006	95	39218	5.13	
102 1,3,5-Trimethylbenzene	105	8.378	8.384	-0.006	68	133955	5.13	
105 4-Chlorotoluene	126	8.421	8.414	0.007	95	40811	5.10	
106 tert-Butylbenzene	134	8.646	8.645	0.001	84	29555	5.09	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	66	134329	5.11	
109 sec-Butylbenzene	105	8.822	8.822	0.0	91	174367	5.10	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	71	77968	5.25	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	96	146275	5.14	
113 1,4-Dichlorobenzene	146	9.011	9.011	0.001	90	80238	5.15	
115 n-Butylbenzene	91	9.278	9.278	0.0	94	133854	5.08	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	94	73797	5.04	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	39	5778	3.76	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	88	49450	4.87	
120 Hexachlorobutadiene	225	10.751	10.750	0.001	88	21198	4.98	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	95	135698	4.73	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.001	92	45783	4.91	
S 123 Total BTEX	1				0		31.0	
S 124 Xylenes, Total	1				0		15.6	
S 125 1,2-Dichloroethene, Total	1				0		10.3	
S 126 1,3-Dichloropropene, Total	1				0		9.54	

Report Date: 21-Sep-2011 09:26:53

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6122.D

Injection Date: 20-Sep-2011 15:00:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

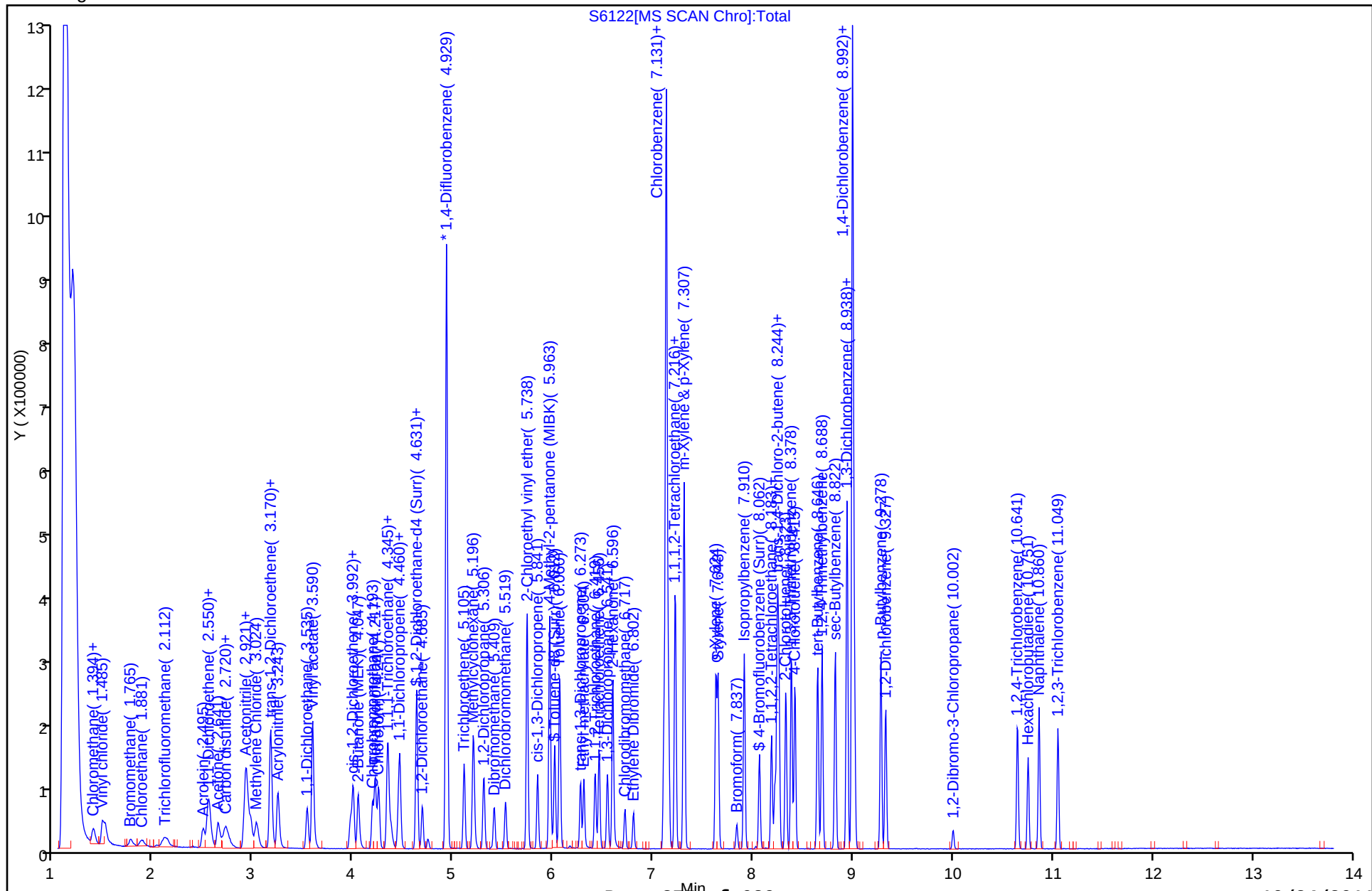
Lims Sample ID: 4

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6123.D
 Lims ID: STD-3 Client ID:
 Inject. Date: 20-Sep-2011 15:23:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 3
 Sample ID: STD-3
 Misc. Info.: 480-0006101-005 =480-0006101-005
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 10
 Lims Batch ID: 32019 Lims Sample ID: 5
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:26:59 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:26:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	582977	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	268660	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	269382	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.630	0.001	46	23181	6.69	
\$ 5 Toluene-d8 (Surr)	98	6.012	6.011	0.001	84	137899	6.08	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	85	61009	9.09	
10 Dichlorodifluoromethane	85	1.260	1.266	-0.006	74	49797	9.44	
12 Chloromethane	50	1.394	1.400	-0.006	89	55563	8.96	
13 Vinyl chloride	62	1.498	1.503	-0.005	79	56227	8.92	
14 Bromomethane	94	1.765	1.759	0.006	75	16593	10.4	
15 Chloroethane	64	1.881	1.881	0.0	67	30052	8.62	
17 Trichlorofluoromethane	101	2.094	2.100	-0.006	73	53744	8.11	
20 Acrolein	56	2.495	2.489	0.006	90	52170	210.2	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	87	54942	9.33	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.562	-0.012	53	54907	10.8	
23 Acetone	43	2.641	2.641	0.0	100	113781	50.6	
25 Iodomethane	142	2.708	2.708	0.0	77	62473	11.0	
26 Carbon disulfide	76	2.726	2.726	0.0	96	159792	10.2	
27 Methyl acetate	43	2.903	2.903	0.0	96	100766	10.4	
29 Acetonitrile	40	2.927	2.927	0.0	99	180138	396.0	
30 Methylene Chloride	84	3.031	3.024	0.007	79	61896	8.81	
32 Methyl tert-butyl ether	73	3.164	3.170	-0.006	90	199008	10.6	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	57	57459	9.06	
33 Acrylonitrile	53	3.243	3.243	0.0	98	143478	52.7	
39 1,1-Dichloroethane	63	3.536	3.535	0.001	79	99087	9.06	
37 Vinyl acetate	43	3.590	3.590	0.0	97	534390	52.2	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	90	44369	9.18	
45 cis-1,2-Dichloroethene	96	3.992	3.998	-0.006	65	63957	9.15	
43 2-Butanone (MEK)	43	4.047	4.040	0.007	100	185755	51.8	
48 Chlorobromomethane	128	4.193	4.192	0.001	89	30538	9.09	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	87	123060	51.9	
50 Chloroform	83	4.247	4.253	-0.006	69	94170	8.76	
51 1,1,1-Trichloroethane	97	4.345	4.344	0.001	78	64726	9.07	
52 Cyclohexane	56	4.339	4.344	-0.005	89	116586	10.6	
55 Carbon tetrachloride	117	4.448	4.448	0.0	78	61172	8.94	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	92	77265	9.03	
57 Benzene	78	4.631	4.630	0.001	97	242303	9.05	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	73	71684	9.12	
62 Trichloroethene	95	5.105	5.105	0.0	91	58626	9.15	
64 Methylcyclohexane	83	5.196	5.196	0.0	88	122237	10.5	
65 1,2-Dichloropropane	63	5.300	5.306	-0.006	93	57672	8.91	
67 Dibromomethane	93	5.403	5.403	0.0	91	33288	9.01	
68 Dichlorobromomethane	83	5.519	5.519	0.0	90	66249	8.83	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	90	233174	52.9	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	88	88979	9.02	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	96	380120	53.5	
74 Toluene	92	6.060	6.060	0.0	92	155536	9.14	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	87	76641	8.76	
75 Ethyl methacrylate	69	6.304	6.303	0.001	68	93092	10.7	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	84	44470	9.11	
81 Tetrachloroethene	166	6.456	6.455	0.001	79	62548	9.31	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	89	93495	9.11	
80 2-Hexanone	43	6.589	6.589	0.0	96	276845	53.2	
83 Chlorodibromomethane	129	6.717	6.717	0.0	79	48424	8.85	
84 Ethylene Dibromide	107	6.802	6.802	0.0	98	52677	9.16	
87 Chlorobenzene	112	7.149	7.149	0.0	86	168262	9.04	
88 Ethylbenzene	91	7.216	7.216	0.0	98	283380	9.21	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	38	50951	9.18	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	223653	18.4	
91 o-Xylene	106	7.624	7.623	0.001	96	109429	9.22	
92 Styrene	104	7.648	7.648	0.0	95	187355	9.16	
95 Bromoform	173	7.837	7.836	0.001	92	27246	7.24	
94 Isopropylbenzene	105	7.910	7.909	0.001	94	279919	9.07	
101 Bromobenzene	156	8.183	8.183	0.0	91	70583	9.16	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	77	71183	8.91	
99 N-Propylbenzene	91	8.238	8.244	-0.006	78	339138	9.11	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	62	22168	9.28	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	83	79235	46.3	
103 2-Chlorotoluene	126	8.323	8.329	-0.006	94	68189	9.01	
102 1,3,5-Trimethylbenzene	105	8.378	8.384	-0.006	64	236532	9.14	
105 4-Chlorotoluene	126	8.415	8.414	0.001	97	71575	9.02	
106 tert-Butylbenzene	134	8.646	8.645	0.001	84	52333	9.09	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	67	239070	9.18	
109 sec-Butylbenzene	105	8.822	8.822	0.0	93	307345	9.08	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	71	136410	9.27	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	260994	9.25	
113 1,4-Dichlorobenzene	146	9.011	9.011	0.001	90	138650	8.97	
115 n-Butylbenzene	91	9.278	9.278	0.0	94	238138	9.12	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	95	130849	9.02	
117 1,2-Dibromo-3-Chloropropane	75	10.002	9.996	0.006	66	11297	7.41	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	92	91010	9.04	
120 Hexachlorobutadiene	225	10.751	10.750	0.001	92	37763	8.86	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	96	253343	8.82	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.001	94	83535	8.94	
S 123 Total BTEX	1				0		55.0	
S 124 Xylenes, Total	1				0		27.6	
S 125 1,2-Dichloroethene, Total	1				0		18.2	
S 126 1,3-Dichloropropene, Total	1				0		17.8	

Report Date: 21-Sep-2011 09:26:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6123.D

Injection Date: 20-Sep-2011 15:23:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

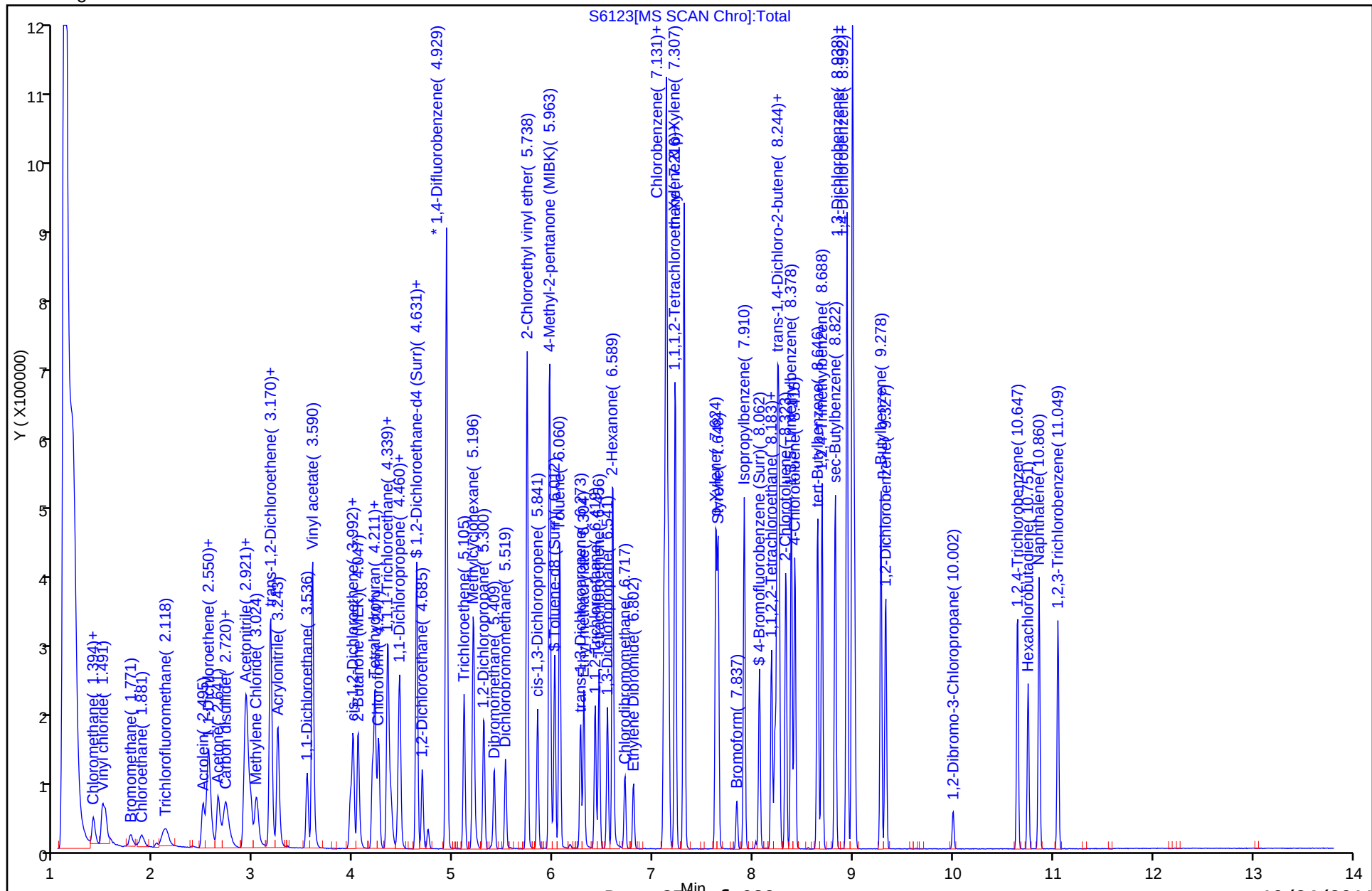
Lims Sample ID: 5

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6124.D
 Lims ID: STD-4 Client ID:
 Inject. Date: 20-Sep-2011 15:45:30 Dil. Factor: 1.0000
 Sample Type: ICIS Calib Level: 4
 Sample ID: STD-4
 Misc. Info.: 480-0006101-006 =480-0006101-006
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 11
 Lims Batch ID: 32019 Lims Sample ID: 6
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:25:44 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:25:18

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	577531	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	271145	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	93	268804	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	52	92284	28.3	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	77	630136	29.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	87	186620	27.6	
10 Dichlorodifluoromethane	85	1.266	1.266	0.0	84	137787	26.4	
12 Chloromethane	50	1.400	1.400	0.0	89	160702	26.2	
13 Vinyl chloride	62	1.503	1.503	0.0	83	166240	26.6	
14 Bromomethane	94	1.771	1.771	0.0	85	49795	26.0	
15 Chloroethane	64	1.881	1.881	0.0	94	94010	27.2	
17 Trichlorofluoromethane	101	2.100	2.100	0.0	83	165597	25.2	
20 Acrolein	56	2.489	2.489	0.0	96	111864	454.9	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.550	0.0	53	122797	23.8	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	90	145951	25.0	
23 Acetone	43	2.641	2.641	0.0	99	269077	120.7	
25 Iodomethane	142	2.708	2.708	0.0	84	150460	26.7	
26 Carbon disulfide	76	2.726	2.726	0.0	97	386302	24.8	
27 Methyl acetate	43	2.903	2.903	0.0	96	236548	24.8	
29 Acetonitrile	40	2.927	2.927	0.0	99	449566	997.5	
30 Methylene Chloride	84	3.024	3.024	0.0	81	173059	24.9	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	90	467425	25.1	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	64	164173	26.1	
33 Acrylonitrile	53	3.243	3.243	0.0	98	337571	125.2	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	281638	26.0	
37 Vinyl acetate	43	3.590	3.590	0.0	97	1310094	129.2	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	92	128082	26.8	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	182453	26.3	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	100	439280	123.8	
48 Chlorobromomethane	128	4.192	4.192	0.0	92	87644	26.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	87	291735	124.1	
50 Chloroform	83	4.253	4.253	0.0	68	263916	24.8	
51 1,1,1-Trichloroethane	97	4.344	4.344	0.0	90	185540	26.2	
52 Cyclohexane	56	4.344	4.344	0.0	89	267856	24.5	
55 Carbon tetrachloride	117	4.448	4.448	0.0	80	178598	26.3	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	95	218815	25.8	
57 Benzene	78	4.630	4.630	0.0	96	685548	25.9	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	73	203924	26.2	
62 Trichloroethene	95	5.105	5.105	0.0	93	163864	25.8	
64 Methylcyclohexane	83	5.196	5.196	0.0	88	282699	24.5	
65 1,2-Dichloropropane	63	5.306	5.306	0.0	95	168540	26.3	
67 Dibromomethane	93	5.403	5.403	0.0	90	98117	26.8	
68 Dichlorobromomethane	83	5.519	5.519	0.0	93	197405	26.5	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	91	549196	125.9	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	91	267242	27.3	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	96	913355	127.3	
74 Toluene	92	6.060	6.060	0.0	89	442677	25.8	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	88	238736	27.0	
75 Ethyl methacrylate	69	6.303	6.303	0.0	69	226124	25.7	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	85	130400	26.5	
81 Tetrachloroethene	166	6.455	6.455	0.0	79	176345	26.0	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	89	267194	25.8	
80 2-Hexanone	43	6.589	6.589	0.0	96	671486	127.8	
83 Chlorodibromomethane	129	6.717	6.717	0.0	86	148305	26.9	
84 Ethylene Dibromide	107	6.802	6.802	0.0	98	153436	26.4	
87 Chlorobenzene	112	7.149	7.149	0.0	86	484726	25.8	
88 Ethylbenzene	91	7.216	7.216	0.0	98	793556	25.6	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	40	149229	26.6	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	98	636265	51.8	
91 o-Xylene	106	7.623	7.623	0.0	96	312453	26.1	
92 Styrene	104	7.648	7.648	0.0	95	544539	26.4	
95 Bromoform	173	7.836	7.836	0.0	95	88416	23.3	
94 Isopropylbenzene	105	7.909	7.909	0.0	95	799300	26.0	
101 Bromobenzene	156	8.183	8.183	0.0	92	199491	25.9	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	78	209631	26.3	
99 N-Propylbenzene	91	8.244	8.244	0.0	75	966307	26.0	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	59	62691	26.3	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	82	210728	123.4	
103 2-Chlorotoluene	126	8.329	8.329	0.0	95	197023	26.1	
102 1,3,5-Trimethylbenzene	105	8.384	8.384	0.0	64	671309	26.0	
105 4-Chlorotoluene	126	8.414	8.414	0.0	97	204427	25.8	
106 tert-Butylbenzene	134	8.645	8.645	0.0	85	152016	26.5	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	69	684075	26.3	
109 sec-Butylbenzene	105	8.822	8.822	0.0	94	887354	26.3	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	71	381362	26.0	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	740471	26.3	
113 1,4-Dichlorobenzene	146	9.011	9.011	0.0	91	395656	25.7	
115 n-Butylbenzene	91	9.278	9.278	0.0	95	688418	26.4	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	92	376819	26.0	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	72	37343	24.5	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	90	272784	27.2	
120 Hexachlorobutadiene	225	10.750	10.750	0.0	96	112080	26.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	97	801538	28.2	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.0	93	251847	27.2	
S 123 Total BTEX	1				0		155.1	
S 124 Xylenes, Total	1				0		77.9	
S 125 1,2-Dichloroethene, Total	1				0		52.5	
S 126 1,3-Dichloropropene, Total	1				0		54.4	

Report Date: 21-Sep-2011 09:25:44

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6124.D

Injection Date: 20-Sep-2011 15:45:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

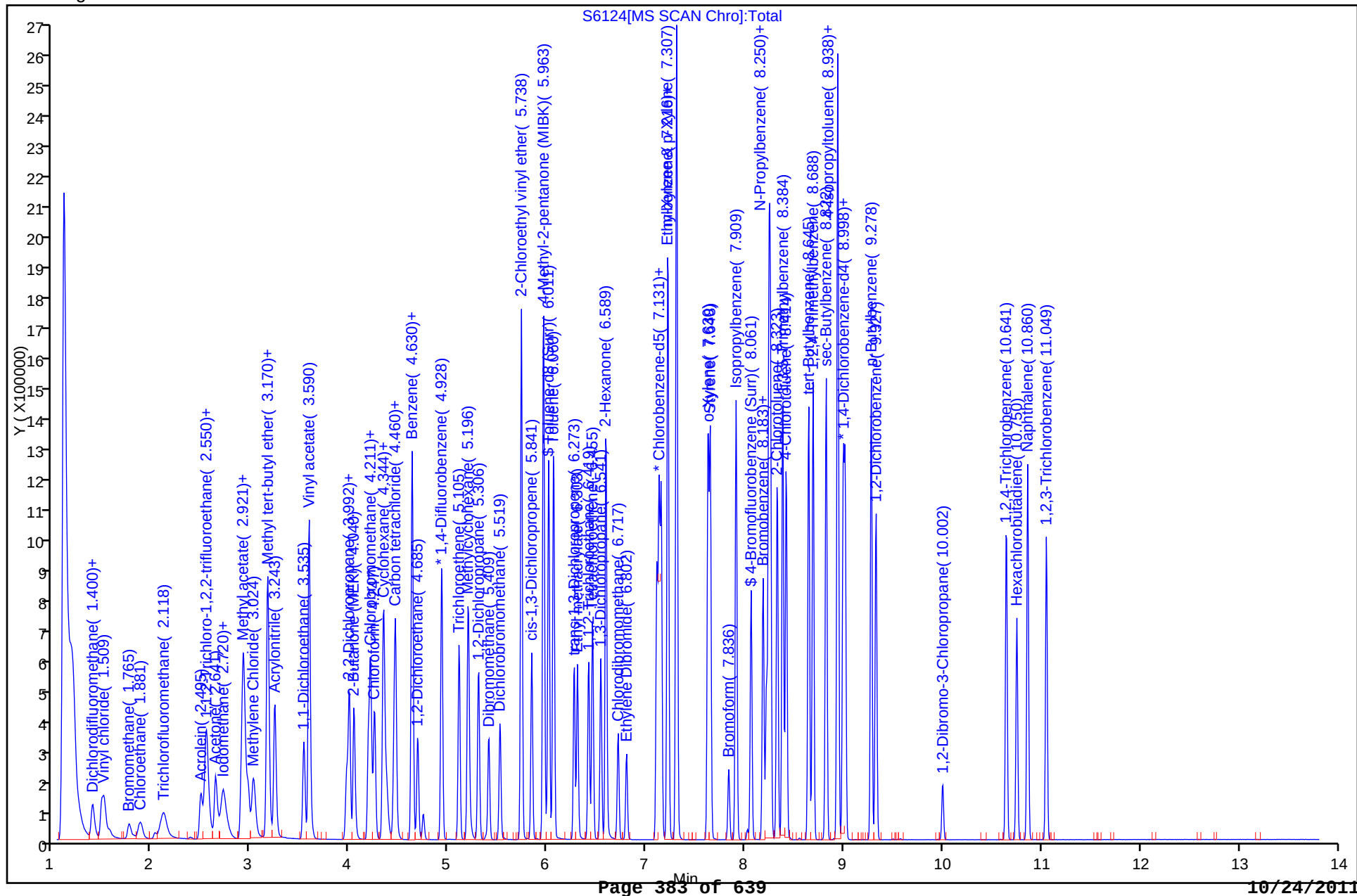
Lims Sample ID: 6

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6125.D
 Lims ID: STD-5 Client ID:
 Inject. Date: 20-Sep-2011 16:07:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 5
 Sample ID: STD-5
 Misc. Info.: 480-0006101-007 =480-0006101-007
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 12
 Lims Batch ID: 32019 Lims Sample ID: 7
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:27:08 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:27:08

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	575794	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	266304	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	88	270618	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	49	150876	49.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	58	959029	48.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	86	344174	51.8	
10 Dichlorodifluoromethane	85	1.260	1.266	-0.006	85	273539	52.5	
12 Chloromethane	50	1.400	1.400	0.0	88	326629	53.3	
13 Vinyl chloride	62	1.504	1.503	0.001	80	312715	50.3	
14 Bromomethane	94	1.777	1.759	0.018	90	89732	47.5	
15 Chloroethane	64	1.881	1.881	0.0	94	153655	44.6	
17 Trichlorofluoromethane	101	2.088	2.100	-0.012	83	321247	49.1	
20 Acrolein	56	2.489	2.489	0.0	98	254975	1040.0	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	90	298952	51.4	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.544	2.562	-0.018	58	255798	51.1	
23 Acetone	43	2.641	2.641	0.0	99	529103	238.1	
25 Iodomethane	142	2.714	2.708	0.006	53	246444	43.9	
26 Carbon disulfide	76	2.726	2.726	0.0	98	777277	50.2	
27 Methyl acetate	43	2.903	2.903	0.0	96	479827	50.4	
29 Acetonitrile	40	2.927	2.927	0.0	99	848559	1888.5	
30 Methylene Chloride	84	3.024	3.024	0.0	80	333031	48.0	
32 Methyl tert-butyl ether	73	3.164	3.170	-0.006	90	943057	50.7	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	64	315249	50.3	
33 Acrylonitrile	53	3.237	3.243	-0.006	98	672165	250.0	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	539154	49.9	
37 Vinyl acetate	43	3.590	3.590	0.0	97	2692897	266.5	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	91	239151	50.1	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	350883	50.8	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	98	878074	248.1	
48 Chlorobromomethane	128	4.192	4.192	0.0	92	168017	50.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	88	588430	251.1	
50 Chloroform	83	4.253	4.253	0.0	68	508090	47.9	
51 1,1,1-Trichloroethane	97	4.345	4.344	0.001	89	352413	50.0	
52 Cyclohexane	56	4.338	4.344	-0.006	89	539424	49.4	
55 Carbon tetrachloride	117	4.448	4.448	0.0	79	344016	50.9	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	94	418887	49.5	
57 Benzene	78	4.630	4.630	0.0	96	1319350	49.9	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	391276	50.4	
62 Trichloroethene	95	5.105	5.105	0.0	93	315698	49.9	
64 Methylcyclohexane	83	5.196	5.196	0.0	89	568903	49.5	
65 1,2-Dichloropropane	63	5.306	5.306	0.0	96	322686	50.5	
67 Dibromomethane	93	5.403	5.403	0.0	87	186463	51.1	
68 Dichlorobromomethane	83	5.519	5.519	0.0	94	383452	51.7	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	90	1109436	255.1	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	90	519047	53.2	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	95	1813746	257.4	
74 Toluene	92	6.066	6.060	0.006	89	829242	49.2	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	88	469924	54.2	
75 Ethyl methacrylate	69	6.303	6.303	0.0	69	481433	55.6	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	85	247445	51.2	
81 Tetrachloroethene	166	6.456	6.455	0.001	79	328634	49.3	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	89	515568	50.7	
80 2-Hexanone	43	6.589	6.589	0.0	79	1334165	258.5	
83 Chlorodibromomethane	129	6.717	6.717	0.0	87	294517	54.3	
84 Ethylene Dibromide	107	6.802	6.802	0.0	98	296632	52.0	
87 Chlorobenzene	112	7.149	7.149	0.0	87	911615	49.4	
88 Ethylbenzene	91	7.216	7.216	0.0	98	1522817	49.9	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	39	288027	52.4	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	1210064	100.3	
91 o-Xylene	106	7.624	7.623	0.001	97	601186	51.1	
92 Styrene	104	7.648	7.648	0.0	95	1058526	52.2	
95 Bromoform	173	7.837	7.836	0.001	95	186672	50.1	
94 Isopropylbenzene	105	7.910	7.909	0.001	95	1542274	49.7	
101 Bromobenzene	156	8.183	8.183	0.0	93	383465	49.5	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	78	410828	51.2	
99 N-Propylbenzene	91	8.238	8.244	-0.006	77	1873994	50.1	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	58	120208	50.1	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	81	418019	243.2	
103 2-Chlorotoluene	126	8.329	8.329	0.0	97	377944	49.7	
102 1,3,5-Trimethylbenzene	105	8.384	8.384	0.0	64	1295143	49.8	
105 4-Chlorotoluene	126	8.421	8.414	0.007	96	400699	50.3	
106 tert-Butylbenzene	134	8.646	8.645	0.001	90	288702	49.9	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	69	1319251	50.4	
109 sec-Butylbenzene	105	8.822	8.822	0.0	94	1701069	50.0	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	71	722831	48.9	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	1413640	49.8	
113 1,4-Dichlorobenzene	146	9.017	9.011	0.007	96	767559	49.5	
115 n-Butylbenzene	91	9.278	9.278	0.0	95	1336833	51.0	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	92	716450	49.2	
117 1,2-Dibromo-3-Chloropropane	75	10.002	9.996	0.006	85	75280	49.2	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	93	526904	52.1	
120 Hexachlorobutadiene	225	10.751	10.750	0.001	96	211793	50.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	97	1544049	54.4	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.001	95	482812	52.3	
S 123 Total BTEX	1				0		300.4	
S 124 Xylenes, Total	1				0		151.4	
S 125 1,2-Dichloroethene, Total	1				0		101.1	
S 126 1,3-Dichloropropene, Total	1				0		107.4	

Report Date: 21-Sep-2011 09:27:08

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6125.D

Injection Date: 20-Sep-2011 16:07:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

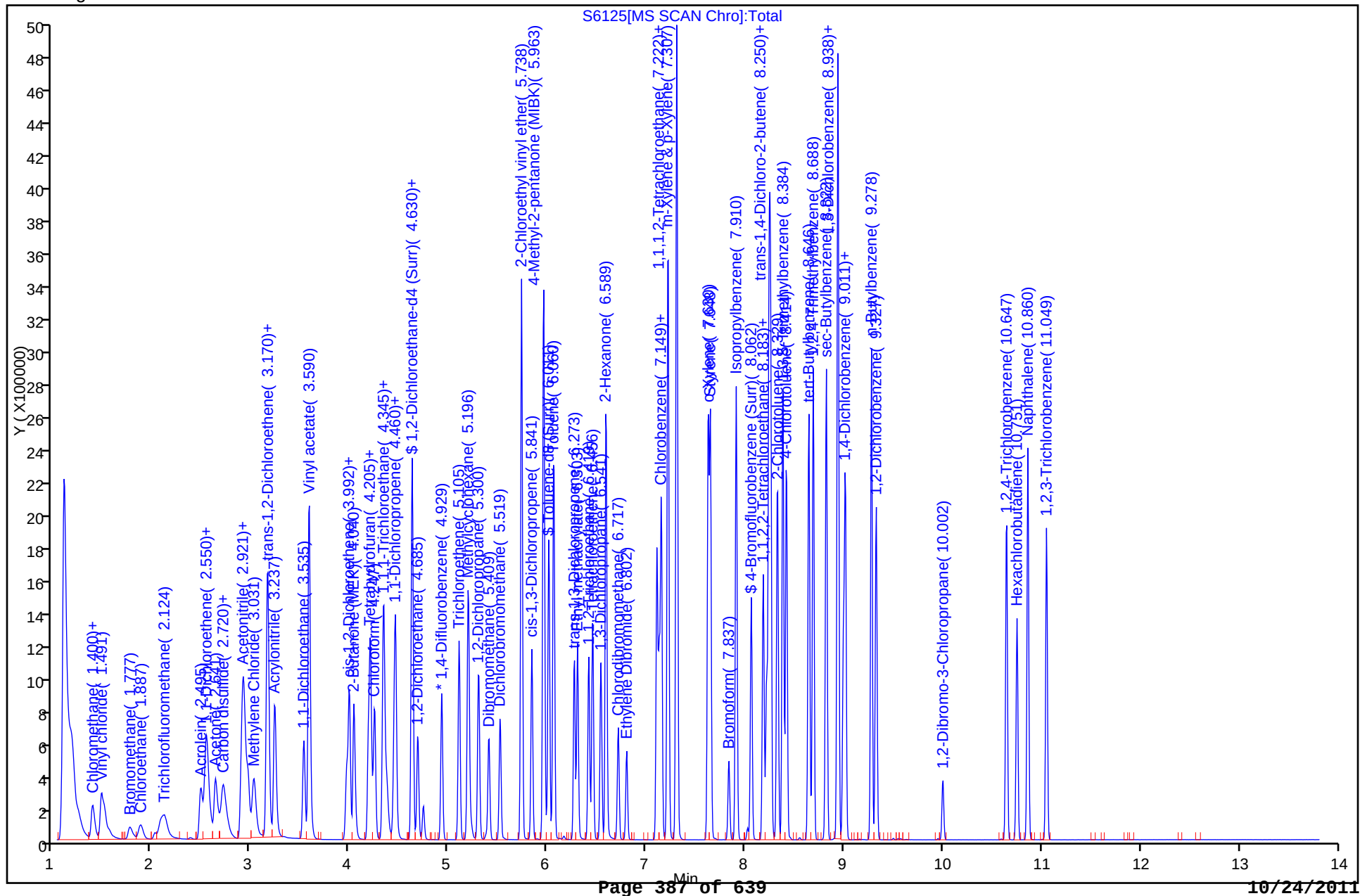
Lims Sample ID: 7

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6126.D
 Lims ID: STD-6 Client ID:
 Inject. Date: 20-Sep-2011 16:29:30 Dil. Factor: 1.0000
 Sample Type: IC Calib Level: 6
 Sample ID: STD-6
 Misc. Info.: 480-0006101-008 =480-0006101-008
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 13
 Lims Batch ID: 32019 Lims Sample ID: 8
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
 Last Update: 21-Sep-2011 09:27:11 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 21-Sep-2011 09:27:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	575060	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	266836	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	70	260188	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	48	266003	100.1	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	57	1659295	100.2	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	86	643075	96.5	
10 Dichlorodifluoromethane	85	1.266	1.266	0.0	88	573749	110.3	
12 Chloromethane	50	1.400	1.400	0.0	89	653387	106.8	
13 Vinyl chloride	62	1.510	1.503	0.007	67	655221	105.4	
14 Bromomethane	94	1.777	1.759	0.018	90	234440	100.3	
15 Chloroethane	64	1.887	1.881	0.006	95	348737	101.4	
17 Trichlorofluoromethane	101	2.094	2.100	-0.006	87	677342	103.6	
20 Acrolein	56	2.489	2.489	0.0	98	513160	2095.7	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	89	607191	104.5	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.544	2.562	-0.018	59	514013	102.8	
23 Acetone	43	2.641	2.641	0.0	99	1012728	456.3	
25 Iodomethane	142	2.708	2.708	0.0	76	545062	97.3	
26 Carbon disulfide	76	2.726	2.726	0.0	98	1559132	100.7	
27 Methyl acetate	43	2.897	2.903	-0.006	97	905099	95.2	
29 Acetonitrile	40	2.927	2.927	0.0	99	1619124	3608.0	
30 Methylene Chloride	84	3.024	3.024	0.0	80	679054	98.0	
32 Methyl tert-butyl ether	73	3.164	3.170	-0.006	89	1821766	98.1	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	65	611963	97.8	
33 Acrylonitrile	53	3.237	3.243	-0.006	98	1282232	477.4	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	1083306	100.4	
37 Vinyl acetate	43	3.590	3.590	0.0	97	5202634	515.5	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	91	484230	101.6	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	688363	99.8	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	94	1686799	477.2	
48 Chlorobromomethane	128	4.192	4.192	0.0	91	330126	99.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.205	4.211	-0.006	88	1125833	481.0	
50 Chloroform	83	4.247	4.253	-0.006	69	1004029	94.7	
51 1,1,1-Trichloroethane	97	4.345	4.344	0.001	93	703555	99.9	
52 Cyclohexane	56	4.338	4.344	-0.006	89	1050818	96.4	
55 Carbon tetrachloride	117	4.448	4.448	0.0	78	720603	106.7	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	94	844370	100.0	
57 Benzene	78	4.630	4.630	0.0	96	2590073	98.1	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	774879	99.9	
62 Trichloroethene	95	5.105	5.105	0.0	93	631841	99.9	
64 Methylcyclohexane	83	5.196	5.196	0.0	89	1107138	96.5	
65 1,2-Dichloropropane	63	5.306	5.306	0.0	95	651135	102.0	
67 Dibromomethane	93	5.403	5.403	0.0	91	369345	101.3	
68 Dichlorobromomethane	83	5.519	5.519	0.0	91	785841	106.1	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	91	2082473	479.4	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	91	1052629	108.1	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	95	3314853	469.5	
74 Toluene	92	6.066	6.060	0.006	89	1653850	97.8	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	88	965156	111.0	
75 Ethyl methacrylate	69	6.303	6.303	0.0	69	919965	106.1	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	85	494136	101.9	
81 Tetrachloroethene	166	6.456	6.455	0.001	87	654076	98.0	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	89	1032784	101.3	
80 2-Hexanone	43	6.589	6.589	0.0	79	2448129	473.4	
83 Chlorodibromomethane	129	6.717	6.717	0.0	87	614962	113.2	
84 Ethylene Dibromide	107	6.802	6.802	0.0	98	591611	103.5	
87 Chlorobenzene	112	7.155	7.149	0.006	88	1828882	98.9	
88 Ethylbenzene	91	7.216	7.216	0.0	98	2980916	97.6	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	39	559015	101.4	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	98	2329553	192.6	
91 o-Xylene	106	7.630	7.623	0.007	96	1171609	99.4	
92 Styrene	104	7.648	7.648	0.0	95	2065825	101.6	
95 Bromoform	173	7.837	7.836	0.0	96	395768	105.9	
94 Isopropylbenzene	105	7.910	7.909	0.001	95	3023238	101.4	
101 Bromobenzene	156	8.183	8.183	0.0	94	746133	100.3	
97 1,1,2,2-Tetrachloroethane	83	8.220	8.214	0.006	78	792550	102.7	
99 N-Propylbenzene	91	8.244	8.244	0.0	78	3579098	99.5	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	53	221894	96.2	
98 trans-1,4-Dichloro-2-butene	53	8.262	8.256	0.006	85	858275	519.4	
103 2-Chlorotoluene	126	8.329	8.329	0.0	97	736306	100.7	
102 1,3,5-Trimethylbenzene	105	8.384	8.384	0.0	64	2511974	100.4	
105 4-Chlorotoluene	126	8.421	8.414	0.007	97	775663	101.2	
106 tert-Butylbenzene	134	8.646	8.645	0.001	90	566153	101.8	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	67	2529955	100.6	
109 sec-Butylbenzene	105	8.822	8.822	0.0	94	3305830	101.1	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	70	1338809	94.2	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	2681188	98.3	
113 1,4-Dichlorobenzene	146	9.017	9.011	0.007	95	1449085	97.1	
115 n-Butylbenzene	91	9.278	9.278	0.0	95	2562919	101.6	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	92	1384192	98.8	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	82	155203	105.4	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	91	985620	101.4	
120 Hexachlorobutadiene	225	10.751	10.750	0.001	96	395556	94.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	97	2991601	105.6	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.001	94	901634	97.8	
S 123 Total BTEX	1				0		585.6	
S 124 Xylenes, Total	1				0		292.0	
S 125 1,2-Dichloroethene, Total	1				0		197.6	
S 126 1,3-Dichloropropene, Total	1				0		219.2	

Report Date: 21-Sep-2011 09:27:11

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6126.D

Injection Date: 20-Sep-2011 16:29:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

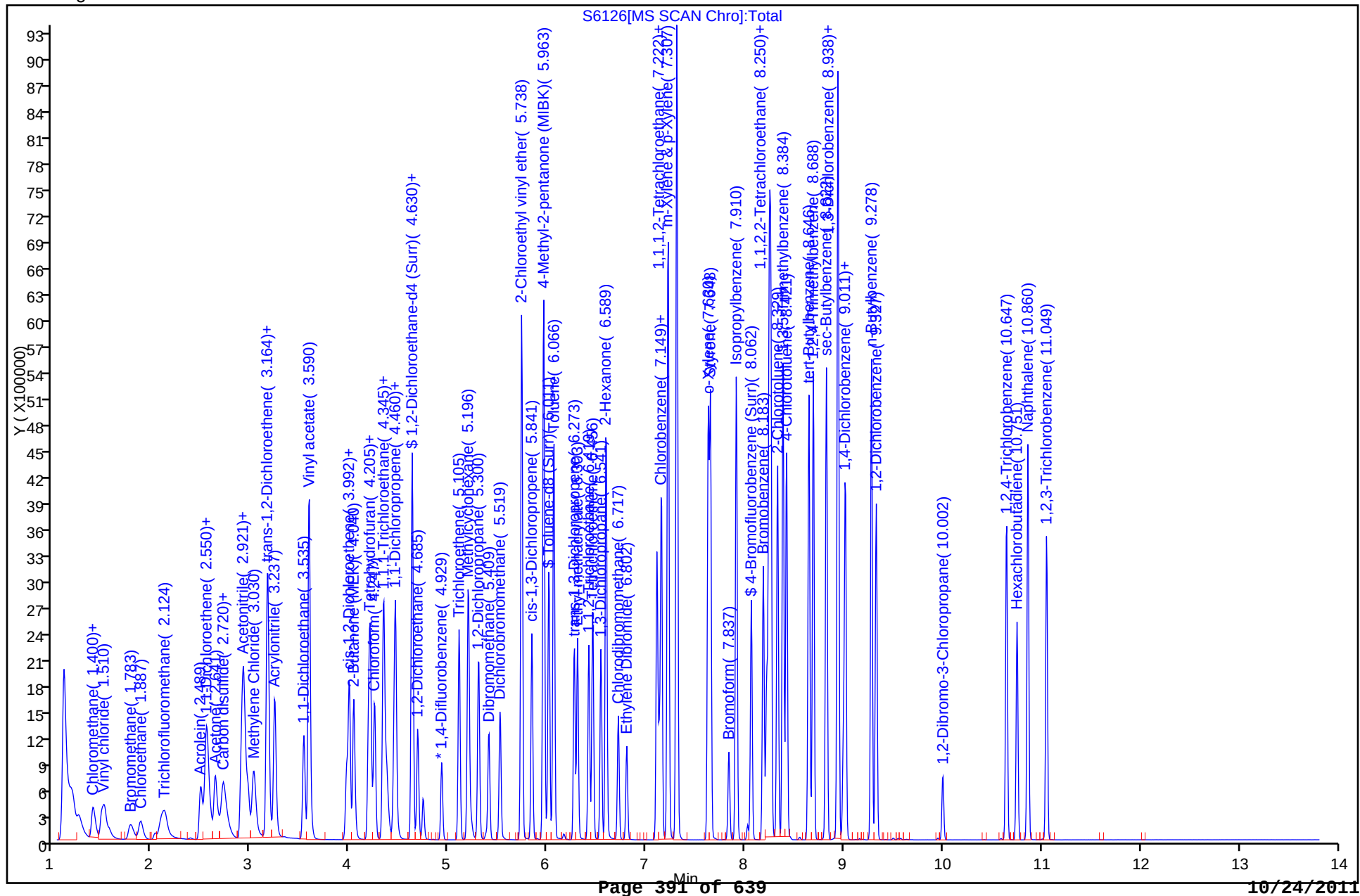
Lims Sample ID: 8

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34016/2 Calibration Date: 10/05/2011 09:29

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6628.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2262	0.1946		21.5	25.0	-14.0	50.0
Chloromethane	Ave	0.2659	0.2666	0.1000	25.1	25.0	0.2	50.0
Vinyl chloride	Ave	0.2702	0.2533		23.4	25.0	-6.3	20.0
Bromomethane	QuaF		0.0717		24.4	25.0	-2.4	50.0
Chloroethane	Ave	0.1495	0.1462		24.4	25.0	-2.2	50.0
Trichlorofluoromethane	Lin1F		0.2882		25.3	25.0	1.2	50.0
Acrolein	Ave	0.0106	0.0117		550	500	9.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2174	0.1998		23.0	25.0	-8.1	50.0
1,1-Dichloroethene	Ave	0.2525	0.2227	0.1000	22.0	25.0	-11.8	20.0
Acetone	Ave	0.0965	0.1092		141	125	13.1	50.0
Iodomethane	Ave	0.2436	0.2535		26.0	25.0	4.1	50.0
Carbon disulfide	Ave	0.6729	0.6367		23.7	25.0	-5.4	50.0
Methyl acetate	Ave	0.4135	0.4512		27.3	25.0	9.1	50.0
Acetonitrile	Ave	0.0195	0.0236		1210	1000	21.1	50.0
Methylene Chloride	Ave	0.3013	0.2819		23.4	25.0	-6.5	50.0
Methyl tert-butyl ether	Ave	0.8077	0.8903		27.6	25.0	10.2	50.0
trans-1,2-Dichloroethene	Ave	0.2721	0.2659		24.4	25.0	-2.3	50.0
Acrylonitrile	Ave	0.1168	0.1262		135	125	8.1	50.0
1,1-Dichloroethane	Ave	0.4693	0.4565		24.3	25.0	-2.7	50.0
Vinyl acetate	Ave	0.4388	0.4777		136	125	8.9	50.0
2,2-Dichloropropane	Ave	0.2073	0.2084		25.1	25.0	0.5	50.0
cis-1,2-Dichloroethene	Ave	0.2998	0.2917		24.3	25.0	-2.7	50.0
2-Butanone (MEK)	Ave	0.1537	0.1722		140	125	12.1	50.0
Bromochloromethane	Ave	0.1441	0.1423		24.7	25.0	-1.2	50.0
Tetrahydrofuran	Ave	0.1018	0.1137		140	125	11.8	50.0
Chloroform	Ave	0.4610	0.4323		23.4	25.0	-6.2	20.0
Cyclohexane	Ave	0.4737	0.4560		24.1	25.0	-3.7	50.0
1,1,1-Trichloroethane	Ave	0.3061	0.3289		26.9	25.0	7.4	50.0
Carbon tetrachloride	Ave	0.2936	0.2852		24.3	25.0	-2.9	50.0
1,1-Dichloropropene	Ave	0.3671	0.3539		24.1	25.0	-3.6	50.0
Benzene	Ave	1.148	1.097		23.9	25.0	-4.4	50.0
1,2-Dichloroethane	Ave	0.3373	0.3293		24.4	25.0	-2.4	50.0
Trichloroethene	Ave	0.2749	0.2655		24.1	25.0	-3.4	50.0
Methylcyclohexane	Ave	0.4989	0.4918		24.6	25.0	-1.4	50.0
1,2-Dichloropropane	Ave	0.2775	0.2639		23.8	25.0	-4.9	20.0
Dibromomethane	Ave	0.1585	0.1557		24.6	25.0	-1.7	50.0
Bromodichloromethane	Ave	0.3219	0.3140		24.4	25.0	-2.5	50.0
2-Chloroethyl vinyl ether	Ave	0.1889	0.1655		110	125	-12.4	50.0
cis-1,3-Dichloropropene	Ave	0.4232	0.4176		24.7	25.0	-1.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6615	0.7339		139	125	10.9	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34016/2 Calibration Date: 10/05/2011 09:29

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6628.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.584	1.505		23.8	25.0	-5.0	20.0
trans-1,3-Dichloropropene	Ave	0.8144	0.8072		24.8	25.0	-0.9	50.0
Ethyl methacrylate	Ave	0.8124	0.8957		27.6	25.0	10.3	50.0
1,1,2-Trichloroethane	Ave	0.4541	0.4366		24.0	25.0	-3.9	50.0
Tetrachloroethene	Ave	0.6252	0.5875		23.5	25.0	-6.0	50.0
1,3-Dichloropropane	Ave	0.9550	0.9021		23.6	25.0	-5.5	50.0
2-Hexanone	Ave	0.4845	0.5391		139	125	11.3	50.0
Dibromochloromethane	Ave	0.5091	0.5033		24.7	25.0	-1.1	50.0
1,2-Dibromoethane	Ave	0.5353	0.5216		24.4	25.0	-2.6	50.0
Chlorobenzene	Ave	1.732	1.635	0.3000	23.6	25.0	-5.6	50.0
Ethylbenzene	Ave	2.862	2.744		24.0	25.0	-4.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5165	0.5026		24.3	25.0	-2.7	50.0
m,p-Xylene	Ave	1.133	1.087		47.9	50.0	-4.1	50.0
o-Xylene	Ave	1.104	1.063		24.1	25.0	-3.7	50.0
Styrene	Ave	1.904	1.847		24.3	25.0	-3.0	50.0
Bromoform	Lin1F		0.2839	0.1000	20.3	25.0	-18.8	50.0
Isopropylbenzene	Ave	2.865	2.743		23.9	25.0	-4.2	50.0
Bromobenzene	Ave	0.7151	0.6835		23.9	25.0	-4.4	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7413	0.7093	0.3000	23.9	25.0	-4.3	50.0
N-Propylbenzene	Ave	3.455	3.322		24.0	25.0	-3.9	50.0
1,2,3-Trichloropropane	Ave	0.2217	0.2149		24.2	25.0	-3.0	50.0
trans-1,4-Dichloro-2-butene	Lin1F		0.1807		142	125	13.8	50.0
2-Chlorotoluene	Ave	0.7026	0.6626		23.6	25.0	-5.7	50.0
1,3,5-Trimethylbenzene	Ave	2.403	2.302		23.9	25.0	-4.2	50.0
4-Chlorotoluene	Ave	0.7366	0.6999		23.8	25.0	-5.0	50.0
tert-Butylbenzene	Ave	0.5345	0.5242		24.5	25.0	-1.9	50.0
1,2,4-Trimethylbenzene	Ave	2.417	2.341		24.2	25.0	-3.1	50.0
sec-Butylbenzene	Ave	3.142	3.052		24.3	25.0	-2.9	50.0
1,3-Dichlorobenzene	Ave	1.365	1.311		24.0	25.0	-4.0	50.0
4-Isopropyltoluene	Ave	2.620	2.530		24.1	25.0	-3.4	50.0
1,4-Dichlorobenzene	Ave	1.434	1.352		23.6	25.0	-5.7	50.0
n-Butylbenzene	Ave	2.423	2.350		24.3	25.0	-3.0	50.0
1,2-Dichlorobenzene	Ave	1.346	1.294		24.0	25.0	-3.8	50.0
1,2-Dibromo-3-Chloropropane	Lin1F		0.1248		22.0	25.0	-12.0	50.0
1,2,4-Trichlorobenzene	Ave	0.9344	0.9417		25.2	25.0	0.8	50.0
Hexachlorobutadiene	Ave	0.1828	0.1737		23.8	25.0	-5.0	50.0
Naphthalene	Ave	1.232	1.215		24.7	25.0	-1.4	50.0
1,2,3-Trichlorobenzene	Ave	0.4008	0.3930		24.5	25.0	-1.9	50.0
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1604		28.5	25.0	14.0	50.0
Toluene-d8 (Surr)	QuaF		2.279		28.8	25.0	15.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6243	0.6671		26.7	25.0	6.9	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6628.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 05-Oct-2011 09:29:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: CCVIS
 Misc. Info.: 480-0006450-002 =480-0006450-002
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 34016 Lims Sample ID: 2
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 09:48:59 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 05-Oct-2011 09:48:59

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	539441	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	250289	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	93	249705	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	0.0	54	86506	28.5	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	76	570491	28.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	87	166978	26.7	
10 Dichlorodifluoromethane	85	1.260	1.260	0.0	85	104998	21.5	
12 Chloromethane	50	1.400	1.400	0.0	89	143802	25.1	
13 Vinyl chloride	62	1.504	1.504	0.0	78	136641	23.4	
14 Bromomethane	94	1.765	1.765	0.0	84	38679	24.4	
15 Chloroethane	64	1.862	1.862	0.0	92	78847	24.4	
17 Trichlorofluoromethane	101	2.088	2.088	0.0	81	155441	25.3	
20 Acrolein	56	2.489	2.489	0.0	95	126261	549.7	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.550	0.0	50	107789	23.0	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	90	120134	22.0	
23 Acetone	43	2.647	2.647	0.0	100	294436	141.4	
25 Iodomethane	142	2.702	2.702	0.0	87	136757	26.0	
26 Carbon disulfide	76	2.720	2.720	0.0	97	343445	23.7	
27 Methyl acetate	43	2.903	2.903	0.0	97	243374	27.3	
29 Acetonitrile	40	2.927	2.927	0.0	99	509585	1210.5	
30 Methylene Chloride	84	3.024	3.024	0.0	80	152048	23.4	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	90	480279	27.6	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	56	143415	24.4	
33 Acrylonitrile	53	3.243	3.243	0.0	99	340334	135.1	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	246265	24.3	
37 Vinyl acetate	43	3.590	3.590	0.0	97	1288350	136.1	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	93	112390	25.1	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	157327	24.3	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	100	464457	140.1	
48 Chlorobromomethane	128	4.193	4.193	0.0	90	76785	24.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	87	306782	139.7	
50 Chloroform	83	4.253	4.253	0.0	68	233217	23.4	
52 Cyclohexane	56	4.339	4.339	0.0	90	245977	24.1	
51 1,1,1-Trichloroethane	97	4.345	4.345	0.0	90	177393	26.9	
55 Carbon tetrachloride	117	4.448	4.448	0.0	80	153830	24.3	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	93	190926	24.1	
57 Benzene	78	4.631	4.631	0.0	96	591860	23.9	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	177610	24.4	
62 Trichloroethene	95	5.105	5.105	0.0	93	143198	24.1	
64 Methylcyclohexane	83	5.196	5.196	0.0	89	265320	24.6	
65 1,2-Dichloropropane	63	5.306	5.306	0.0	94	142372	23.8	
67 Dibromomethane	93	5.403	5.403	0.0	85	84007	24.6	
68 Dichlorobromomethane	83	5.519	5.519	0.0	93	169377	24.4	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	91	446295	109.5	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	89	225292	24.7	
73 4-Methyl-2-pentanone (MIBK)	43	5.963	5.963	0.0	96	918378	138.7	
74 Toluene	92	6.060	6.060	0.0	90	376622	23.8	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	89	202029	24.8	
75 Ethyl methacrylate	69	6.304	6.304	0.0	69	224179	27.6	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	85	109280	24.0	
81 Tetrachloroethene	166	6.456	6.456	0.0	78	147040	23.5	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	90	225776	23.6	
80 2-Hexanone	43	6.589	6.589	0.0	96	674633	139.1	
83 Chlorodibromomethane	129	6.717	6.717	0.0	87	125980	24.7	
84 Ethylene Dibromide	107	6.802	6.802	0.0	97	130552	24.4	
87 Chlorobenzene	112	7.149	7.149	0.0	85	409222	23.6	
88 Ethylbenzene	91	7.216	7.216	0.0	98	686848	24.0	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	40	125802	24.3	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	543950	47.9	
91 o-Xylene	106	7.624	7.624	0.0	97	265968	24.1	
92 Styrene	104	7.648	7.648	0.0	95	462333	24.3	
95 Bromoform	173	7.837	7.837	0.0	95	71059	20.3	
94 Isopropylbenzene	105	7.910	7.910	0.0	95	684958	23.9	
101 Bromobenzene	156	8.183	8.183	0.0	92	170676	23.9	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	77	177122	23.9	
99 N-Propylbenzene	91	8.238	8.238	0.0	77	829427	24.0	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	65	53672	24.2	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	85	225583	142.2	
103 2-Chlorotoluene	126	8.323	8.323	0.0	94	165450	23.6	
102 1,3,5-Trimethylbenzene	105	8.378	8.378	0.0	64	574733	23.9	
105 4-Chlorotoluene	126	8.415	8.415	0.0	97	174772	23.8	
106 tert-Butylbenzene	134	8.646	8.646	0.0	89	130887	24.5	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	69	584623	24.2	
109 sec-Butylbenzene	105	8.822	8.822	0.0	93	761991	24.3	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	70	327377	24.0	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	631641	24.1	
113 1,4-Dichlorobenzene	146	9.011	9.011	0.0	94	337578	23.6	
115 n-Butylbenzene	91	9.278	9.278	0.0	94	586903	24.3	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	93	323099	24.0	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	72	31155	22.0	
119 1,2,4-Trichlorobenzene	180	10.641	10.641	0.0	92	235141	25.2	
120 Hexachlorobutadiene	225	10.751	10.751	0.0	95	93696	23.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	96	655294	24.7	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.0	94	211989	24.5	
S 123 Total BTEX	1				0		143.6	
S 124 Xylenes, Total	1				0		72.0	
S 125 1,2-Dichloroethene, Total	1				0		48.7	
S 126 1,3-Dichloropropene, Total	1				0		49.4	

Report Date: 05-Oct-2011 09:48:59

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6628.D

Injection Date: 05-Oct-2011 09:29:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34016

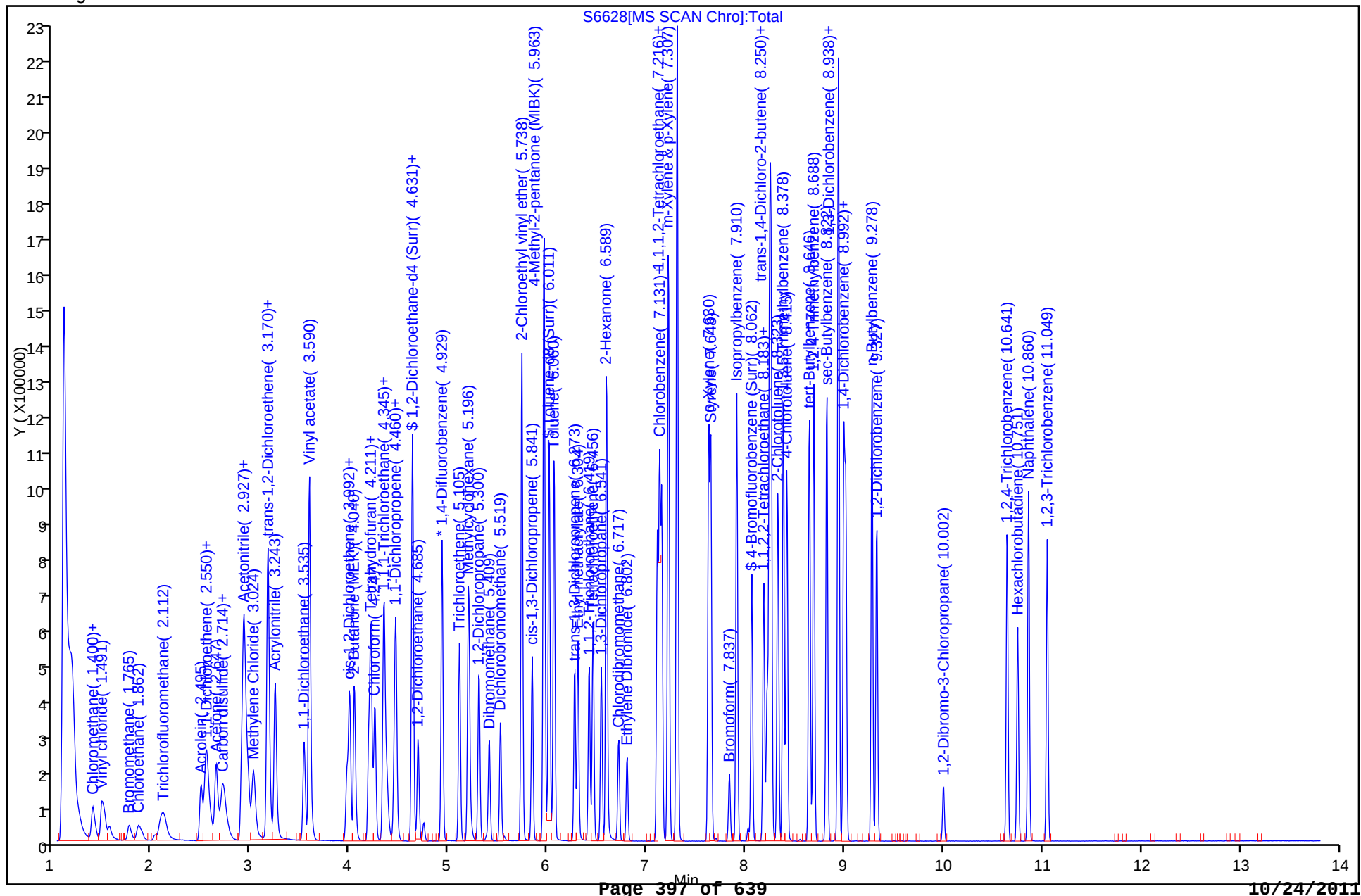
Lims Sample ID: 2

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34202/2 Calibration Date: 10/06/2011 09:56

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6655.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2262	0.1909		21.1	25.0	-15.6	50.0
Chloromethane	Ave	0.2659	0.2420	0.1000	22.7	25.0	-9.0	50.0
Vinyl chloride	Ave	0.2702	0.2276		21.1	25.0	-15.8	20.0
Bromomethane	QuaF		0.0736		24.9	25.0	-0.4	50.0
Chloroethane	Ave	0.1495	0.1310		21.9	25.0	-12.4	50.0
Trichlorofluoromethane	Lin1F		0.2923		25.7	25.0	2.8	50.0
Acrolein	Ave	0.0106	0.0127		597	500	19.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2174	0.2221		25.5	25.0	2.2	50.0
1,1-Dichloroethene	Ave	0.2525	0.2364	0.1000	23.4	25.0	-6.4	20.0
Acetone	Ave	0.0965	0.1078		140	125	11.7	50.0
Iodomethane	Ave	0.2436	0.2515		25.8	25.0	3.2	50.0
Carbon disulfide	Ave	0.6729	0.5936		22.1	25.0	-11.8	50.0
Methyl acetate	Ave	0.4135	0.4170		25.2	25.0	0.8	50.0
Acetonitrile	Ave	0.0195	0.0227		1160	1000	16.4	50.0
Methylene Chloride	Ave	0.3013	0.2728		22.6	25.0	-9.5	50.0
Methyl tert-butyl ether	Ave	0.8077	0.8311		25.7	25.0	2.9	50.0
trans-1,2-Dichloroethene	Ave	0.2721	0.2500		23.0	25.0	-8.1	50.0
Acrylonitrile	Ave	0.1168	0.1175		126	125	0.6	50.0
1,1-Dichloroethane	Ave	0.4693	0.4224		22.5	25.0	-10.0	50.0
Vinyl acetate	Ave	0.4388	0.4457		127	125	1.6	50.0
2,2-Dichloropropane	Ave	0.2073	0.1971		23.8	25.0	-4.9	50.0
cis-1,2-Dichloroethene	Ave	0.2998	0.2775		23.1	25.0	-7.4	50.0
2-Butanone (MEK)	Ave	0.1537	0.1606		131	125	4.5	50.0
Bromochloromethane	Ave	0.1441	0.1387		24.1	25.0	-3.8	50.0
Tetrahydrofuran	Ave	0.1018	0.1052		129	125	3.4	50.0
Chloroform	Ave	0.4610	0.4265		23.1	25.0	-7.5	20.0
1,1,1-Trichloroethane	Ave	0.3061	0.2996		24.5	25.0	-2.1	50.0
Cyclohexane	Ave	0.4737	0.4182		22.1	25.0	-11.7	50.0
Carbon tetrachloride	Ave	0.2936	0.2832		24.1	25.0	-3.5	50.0
1,1-Dichloropropene	Ave	0.3671	0.3289		22.4	25.0	-10.4	50.0
Benzene	Ave	1.148	1.024		22.3	25.0	-10.8	50.0
1,2-Dichloroethane	Ave	0.3373	0.3312		24.5	25.0	-1.8	50.0
Trichloroethene	Ave	0.2749	0.2549		23.2	25.0	-7.3	50.0
Methylcyclohexane	Ave	0.4989	0.4569		22.9	25.0	-8.4	50.0
1,2-Dichloropropane	Ave	0.2775	0.2429		21.9	25.0	-12.5	20.0
Dibromomethane	Ave	0.1585	0.1511		23.8	25.0	-4.7	50.0
Bromodichloromethane	Ave	0.3219	0.3109		24.1	25.0	-3.4	50.0
2-Chloroethyl vinyl ether	Ave	0.1889	0.1564		104	125	-17.2	50.0
cis-1,3-Dichloropropene	Ave	0.4232	0.3905		23.1	25.0	-7.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6615	0.6891		130	125	4.2	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34202/2 Calibration Date: 10/06/2011 09:56

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6655.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.584	1.430		22.6	25.0	-9.7	20.0
trans-1,3-Dichloropropene	Ave	0.8144	0.7609		23.4	25.0	-6.6	50.0
Ethyl methacrylate	Ave	0.8124	0.8344		25.7	25.0	2.7	50.0
1,1,2-Trichloroethane	Ave	0.4541	0.4101		22.6	25.0	-9.7	50.0
Tetrachloroethene	Ave	0.6252	0.5768		23.1	25.0	-7.7	50.0
1,3-Dichloropropane	Ave	0.9550	0.8651		22.6	25.0	-9.4	50.0
2-Hexanone	Ave	0.4845	0.5121		132	125	5.7	50.0
Dibromochloromethane	Ave	0.5091	0.4989		24.5	25.0	-2.0	50.0
1,2-Dibromoethane	Ave	0.5353	0.5071		23.7	25.0	-5.3	50.0
Chlorobenzene	Ave	1.732	1.591	0.3000	23.0	25.0	-8.1	50.0
Ethylbenzene	Ave	2.862	2.588		22.6	25.0	-9.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5165	0.4996		24.2	25.0	-3.3	50.0
m,p-Xylene	Ave	1.133	1.039		45.8	50.0	-8.3	50.0
o-Xylene	Ave	1.104	1.009		22.9	25.0	-8.6	50.0
Styrene	Ave	1.904	1.778		23.3	25.0	-6.7	50.0
Bromoform	Lin1F		0.2912	0.1000	20.8	25.0	-16.8	50.0
Isopropylbenzene	Ave	2.865	2.522		22.0	25.0	-12.0	50.0
Bromobenzene	Ave	0.7151	0.6615		23.1	25.0	-7.5	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7413	0.6596	0.3000	22.2	25.0	-11.0	50.0
N-Propylbenzene	Ave	3.455	3.043		22.0	25.0	-11.9	50.0
1,2,3-Trichloropropane	Ave	0.2217	0.2066		23.3	25.0	-6.8	50.0
trans-1,4-Dichloro-2-butene	Lin1F		0.1649		130	125	3.8	50.0
2-Chlorotoluene	Ave	0.7026	0.6334		22.5	25.0	-9.9	50.0
1,3,5-Trimethylbenzene	Ave	2.403	2.153		22.4	25.0	-10.4	50.0
4-Chlorotoluene	Ave	0.7366	0.6630		22.5	25.0	-10.0	50.0
tert-Butylbenzene	Ave	0.5345	0.4828		22.6	25.0	-9.7	50.0
1,2,4-Trimethylbenzene	Ave	2.417	2.204		22.8	25.0	-8.8	50.0
sec-Butylbenzene	Ave	3.142	2.835		22.6	25.0	-9.8	50.0
1,3-Dichlorobenzene	Ave	1.365	1.271		23.3	25.0	-6.9	50.0
4-Isopropyltoluene	Ave	2.620	2.368		22.6	25.0	-9.6	50.0
1,4-Dichlorobenzene	Ave	1.434	1.313		22.9	25.0	-8.4	50.0
n-Butylbenzene	Ave	2.423	2.195		22.6	25.0	-9.4	50.0
1,2-Dichlorobenzene	Ave	1.346	1.263		23.5	25.0	-6.1	50.0
1,2-Dibromo-3-Chloropropane	Lin1F		0.1180		20.9	25.0	-16.4	50.0
1,2,4-Trichlorobenzene	Ave	0.9344	0.8984		24.0	25.0	-3.9	50.0
Hexachlorobutadiene	Ave	0.1828	0.1735		23.7	25.0	-5.1	50.0
Naphthalene	Ave	1.232	1.207		24.5	25.0	-2.0	50.0
1,2,3-Trichlorobenzene	Ave	0.4008	0.4004		25.0	25.0	-0.1	50.0
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1695		30.2	25.0	20.8	50.0
Toluene-d8 (Surr)	QuaF		2.314		29.3	25.0	17.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6243	0.7007		28.1	25.0	12.2	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6655.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 06-Oct-2011 09:56:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: CCVIS
 Misc. Info.: 480-0006479-002 =480-0006479-002
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 34202 Lims Sample ID: 2
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 10:16:24 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 10:16:24

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	465934	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	217643	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	93	225713	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	56	78968	30.2	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	71	503565	29.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	88	152495	28.1	
10 Dichlorodifluoromethane	85	1.266	1.266	0.0	85	88956	21.1	
12 Chloromethane	50	1.406	1.406	0.0	89	112745	22.7	
13 Vinyl chloride	62	1.510	1.510	0.0	82	106052	21.1	
14 Bromomethane	94	1.771	1.771	0.0	84	34282	24.9	
15 Chloroethane	64	1.881	1.881	0.0	89	61017	21.9	
17 Trichlorofluoromethane	101	2.094	2.094	0.0	83	136183	25.7	
20 Acrolein	56	2.489	2.489	0.0	93	118401	596.8	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.550	0.0	56	103499	25.5	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	89	110164	23.4	
23 Acetone	43	2.647	2.647	0.0	100	251070	139.6	
25 Iodomethane	142	2.708	2.708	0.0	91	117191	25.8	
26 Carbon disulfide	76	2.732	2.732	0.0	96	276584	22.1	
27 Methyl acetate	43	2.903	2.903	0.0	96	194286	25.2	
29 Acetonitrile	40	2.927	2.927	0.0	99	423096	1163.6	
30 Methylene Chloride	84	3.030	3.030	0.0	79	127105	22.6	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	91	387220	25.7	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	58	116462	23.0	
33 Acrylonitrile	53	3.243	3.243	0.0	97	273618	125.7	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	196827	22.5	
37 Vinyl acetate	43	3.590	3.590	0.0	97	1038374	127.0	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	92	91832	23.8	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	65	129289	23.1	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	100	374242	130.7	
48 Chlorobromomethane	128	4.192	4.192	0.0	90	64622	24.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	87	245016	129.2	
50 Chloroform	83	4.253	4.253	0.0	69	198699	23.1	
52 Cyclohexane	56	4.345	4.345	0.0	88	194844	22.1	
51 1,1,1-Trichloroethane	97	4.345	4.345	0.0	91	139585	24.5	
55 Carbon tetrachloride	117	4.448	4.448	0.0	78	131946	24.1	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	92	153247	22.4	
57 Benzene	78	4.630	4.630	0.0	96	476936	22.3	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	154302	24.5	
62 Trichloroethene	95	5.105	5.105	0.0	92	118762	23.2	
64 Methylcyclohexane	83	5.196	5.196	0.0	89	212889	22.9	
65 1,2-Dichloropropane	63	5.300	5.300	0.0	90	113157	21.9	
67 Dibromomethane	93	5.403	5.403	0.0	92	70404	23.8	
68 Dichlorobromomethane	83	5.519	5.519	0.0	93	144849	24.1	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	91	364336	103.5	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	88	181937	23.1	
73 4-Methyl-2-pentanone (MIBK)	43	5.957	5.957	0.0	97	749925	130.2	
74 Toluene	92	6.060	6.060	0.0	90	311158	22.6	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	89	165604	23.4	
75 Ethyl methacrylate	69	6.303	6.303	0.0	69	181604	25.7	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	85	89249	22.6	
81 Tetrachloroethene	166	6.456	6.456	0.0	83	125528	23.1	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	90	188277	22.6	
80 2-Hexanone	43	6.589	6.589	0.0	96	557217	132.1	
83 Chlorodibromomethane	129	6.717	6.717	0.0	87	108579	24.5	
84 Ethylene Dibromide	107	6.802	6.802	0.0	99	110362	23.7	
87 Chlorobenzene	112	7.149	7.149	0.0	85	346277	23.0	
88 Ethylbenzene	91	7.216	7.216	0.0	98	563206	22.6	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	41	108724	24.2	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	452211	45.8	
91 o-Xylene	106	7.624	7.624	0.0	97	219702	22.9	
92 Styrene	104	7.648	7.648	0.0	95	386866	23.3	
95 Bromoform	173	7.837	7.837	0.0	97	63387	20.8	
94 Isopropylbenzene	105	7.910	7.910	0.0	95	569146	22.0	
101 Bromobenzene	156	8.183	8.183	0.0	91	149316	23.1	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	78	148875	22.2	
99 N-Propylbenzene	91	8.238	8.238	0.0	77	686764	22.0	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	62	46623	23.3	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	85	186118	129.8	
103 2-Chlorotoluene	126	8.323	8.323	0.0	96	142970	22.5	
102 1,3,5-Trimethylbenzene	105	8.378	8.378	0.0	85	485853	22.4	
105 4-Chlorotoluene	126	8.414	8.414	0.0	97	149650	22.5	
106 tert-Butylbenzene	134	8.646	8.646	0.0	89	108975	22.6	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	69	497451	22.8	
109 sec-Butylbenzene	105	8.822	8.822	0.0	93	639792	22.6	
111 1,3-Dichlorobenzene	146	8.938	8.938	0.0	72	286979	23.3	
110 4-Isopropyltoluene	119	8.938	8.938	0.0	95	534526	22.6	
113 1,4-Dichlorobenzene	146	9.011	9.011	0.0	94	296431	22.9	
115 n-Butylbenzene	91	9.278	9.278	0.0	94	495396	22.6	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	93	285126	23.5	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	68	26641	20.9	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	93	202770	24.0	
120 Hexachlorobutadiene	225	10.751	10.751	0.0	95	80832	23.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	96	562450	24.5	
122 1,2,3-Trichlorobenzene	180	11.049	11.049	0.0	93	186559	25.0	
S 125 1,2-Dichloroethene, Total	1				0		46.1	
S 126 1,3-Dichloropropene, Total	1				0		46.4	
S 123 Total BTEX	1				0		136.2	
S 124 Xylenes, Total	1				0		68.7	

Report Date: 06-Oct-2011 10:16:24

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6655.D

Injection Date: 06-Oct-2011 09:56:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34202

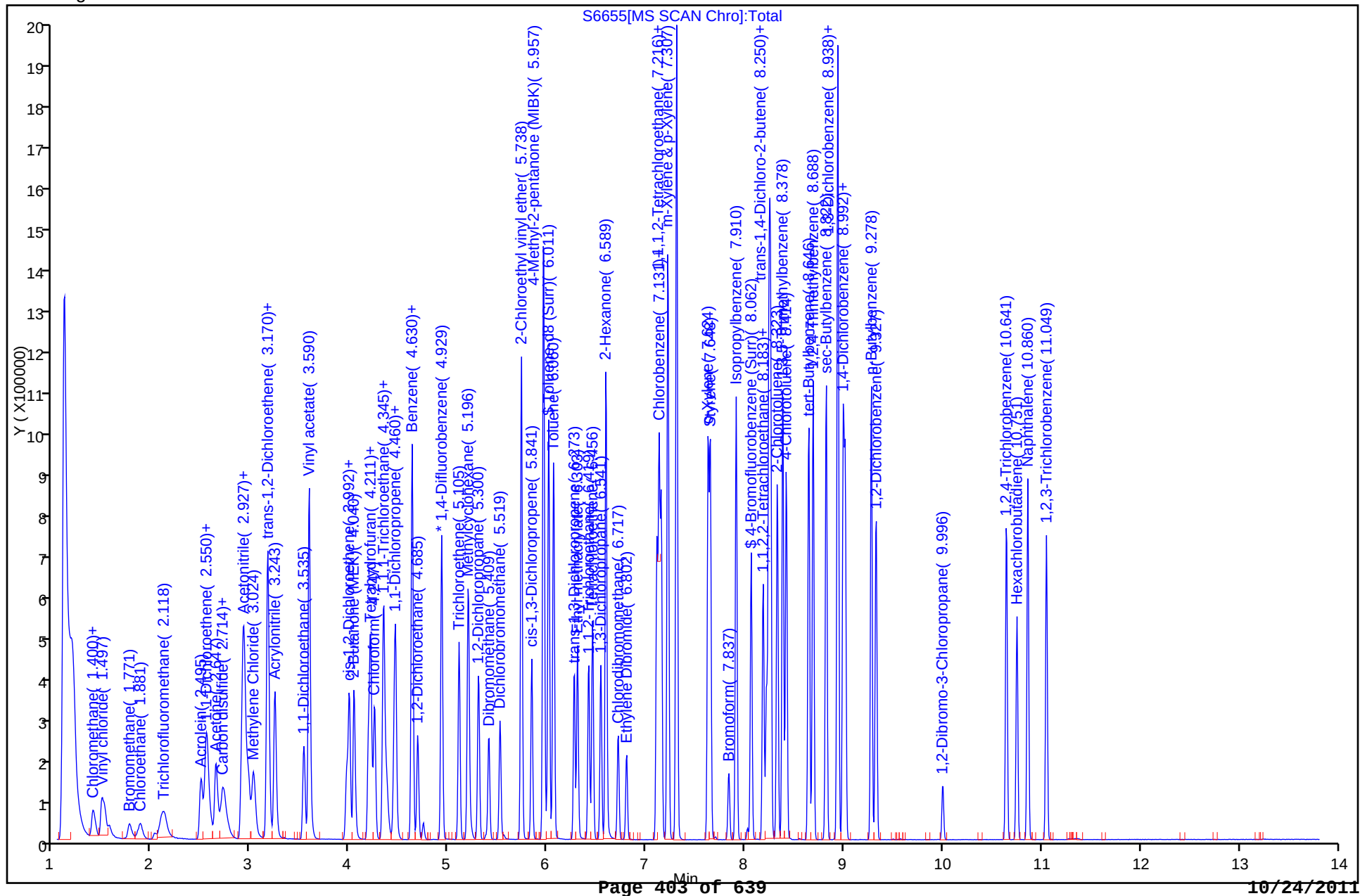
Lims Sample ID: 2

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34409/2 Calibration Date: 10/07/2011 10:57

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6683.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	0.2262	0.2776		30.7	25.0	22.7	50.0
Chloromethane	Ave	0.2659	0.2953	0.1000	27.8	25.0	11.1	50.0
Vinyl chloride	Ave	0.2702	0.2750		25.4	25.0	1.8	20.0
Bromomethane	QuaF		0.0751		25.4	25.0	1.6	50.0
Chloroethane	Ave	0.1495	0.1419		23.7	25.0	-5.1	50.0
Trichlorofluoromethane	Lin1F		0.3334		29.3	25.0	17.2	50.0
Acrolein	Ave	0.0106	0.0096		450	500	-9.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2174	0.2602		29.9	25.0	19.7	50.0
1,1-Dichloroethene	Ave	0.2525	0.2537	0.1000	25.1	25.0	0.4	20.0
Acetone	Ave	0.0965	0.1087		141	125	12.7	50.0
Iodomethane	Ave	0.2436	0.2783		28.6	25.0	14.2	50.0
Carbon disulfide	Ave	0.6729	0.7614		28.3	25.0	13.1	50.0
Methyl acetate	Ave	0.4135	0.4227		25.6	25.0	2.2	50.0
Acetonitrile	Ave	0.0195	0.0218		1120	1000	11.7	50.0
Methylene Chloride	Ave	0.3013	0.2847		23.6	25.0	-5.5	50.0
Methyl tert-butyl ether	Ave	0.8077	0.8372		25.9	25.0	3.7	50.0
trans-1,2-Dichloroethene	Ave	0.2721	0.2684		24.7	25.0	-1.4	50.0
Acrylonitrile	Ave	0.1168	0.1148		123	125	-1.6	50.0
1,1-Dichloroethane	Ave	0.4693	0.4500		24.0	25.0	-4.1	50.0
Vinyl acetate	Ave	0.4388	0.4550		130	125	3.7	50.0
2,2-Dichloropropane	Ave	0.2073	0.2237		27.0	25.0	7.9	50.0
cis-1,2-Dichloroethene	Ave	0.2998	0.2924		24.4	25.0	-2.5	50.0
2-Butanone (MEK)	Ave	0.1537	0.1581		129	125	2.9	50.0
Bromochloromethane	Ave	0.1441	0.1441		25.0	25.0	0.0	50.0
Tetrahydrofuran	Ave	0.1018	0.1018		125	125	0.0	50.0
Chloroform	Ave	0.4610	0.4512		24.5	25.0	-2.1	20.0
Cyclohexane	Ave	0.4737	0.4792		25.3	25.0	1.2	50.0
1,1,1-Trichloroethane	Ave	0.3061	0.3341		27.3	25.0	9.1	50.0
Carbon tetrachloride	Ave	0.2936	0.3124		26.6	25.0	6.4	50.0
1,1-Dichloropropene	Ave	0.3671	0.3579		24.4	25.0	-2.5	50.0
Benzene	Ave	1.148	1.091		23.8	25.0	-5.0	50.0
1,2-Dichloroethane	Ave	0.3373	0.3497		25.9	25.0	3.7	50.0
Trichloroethene	Ave	0.2749	0.2696		24.5	25.0	-1.9	50.0
Methylcyclohexane	Ave	0.4989	0.5135		25.7	25.0	2.9	50.0
1,2-Dichloropropane	Ave	0.2775	0.2540		22.9	25.0	-8.5	20.0
Dibromomethane	Ave	0.1585	0.1569		24.8	25.0	-1.0	50.0
Bromodichloromethane	Ave	0.3219	0.3242		25.2	25.0	0.7	50.0
2-Chloroethyl vinyl ether	Ave	0.1889	0.1760		117	125	-6.8	50.0
cis-1,3-Dichloropropene	Ave	0.4232	0.4076		24.1	25.0	-3.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6615	0.6732		127	125	1.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Lab Sample ID: CCVIS 480-34409/2 Calibration Date: 10/07/2011 10:57

Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39

GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29

Lab File ID: S6683.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene	Ave	1.584	1.500		23.7	25.0	-5.3	20.0
trans-1,3-Dichloropropene	Ave	0.8144	0.7916		24.3	25.0	-2.8	50.0
Ethyl methacrylate	Ave	0.8124	0.8377		25.8	25.0	3.1	50.0
1,1,2-Trichloroethane	Ave	0.4541	0.4338		23.9	25.0	-4.5	50.0
Tetrachloroethene	Ave	0.6252	0.6319		25.3	25.0	1.1	50.0
1,3-Dichloropropane	Ave	0.9550	0.8919		23.3	25.0	-6.6	50.0
2-Hexanone	Ave	0.4845	0.5023		130	125	3.7	50.0
Dibromochloromethane	Ave	0.5091	0.5273		25.9	25.0	3.6	50.0
1,2-Dibromoethane	Ave	0.5353	0.5325		24.9	25.0	-0.5	50.0
Chlorobenzene	Ave	1.732	1.686	0.3000	24.3	25.0	-2.7	50.0
Ethylbenzene	Ave	2.862	2.782		24.3	25.0	-2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5165	0.5330		25.8	25.0	3.2	50.0
m,p-Xylene	Ave	1.133	1.121		49.5	50.0	-1.0	50.0
o-Xylene	Ave	1.104	1.073		24.3	25.0	-2.8	50.0
Styrene	Ave	1.904	1.873		24.6	25.0	-1.6	50.0
Bromoform	Lin1F		0.3005	0.1000	21.5	25.0	-14.0	50.0
Isopropylbenzene	Ave	2.865	2.716		23.7	25.0	-5.2	50.0
Bromobenzene	Ave	0.7151	0.6944		24.3	25.0	-2.9	50.0
1,1,2,2-Tetrachloroethane	Ave	0.7413	0.6792	0.3000	22.9	25.0	-8.4	50.0
N-Propylbenzene	Ave	3.455	3.265		23.6	25.0	-5.5	50.0
1,2,3-Trichloropropane	Ave	0.2217	0.2173		24.5	25.0	-2.0	50.0
trans-1,4-Dichloro-2-butene	Lin1F		0.1531		121	125	-3.6	50.0
2-Chlorotoluene	Ave	0.7026	0.6696		23.8	25.0	-4.7	50.0
1,3,5-Trimethylbenzene	Ave	2.403	2.291		23.8	25.0	-4.7	50.0
4-Chlorotoluene	Ave	0.7366	0.7202		24.4	25.0	-2.2	50.0
tert-Butylbenzene	Ave	0.5345	0.5140		24.0	25.0	-3.8	50.0
1,2,4-Trimethylbenzene	Ave	2.417	2.324		24.0	25.0	-3.8	50.0
sec-Butylbenzene	Ave	3.142	2.995		23.8	25.0	-4.7	50.0
1,3-Dichlorobenzene	Ave	1.365	1.353		24.8	25.0	-0.9	50.0
4-Isopropyltoluene	Ave	2.620	2.543		24.3	25.0	-2.9	50.0
1,4-Dichlorobenzene	Ave	1.434	1.386		24.2	25.0	-3.3	50.0
n-Butylbenzene	Ave	2.423	2.331		24.0	25.0	-3.8	50.0
1,2-Dichlorobenzene	Ave	1.346	1.321		24.5	25.0	-1.9	50.0
1,2-Dibromo-3-Chloropropane	Lin1F		0.1199		21.2	25.0	-15.2	50.0
1,2,4-Trichlorobenzene	Ave	0.9344	0.9216		24.7	25.0	-1.4	50.0
Hexachlorobutadiene	Ave	0.1828	0.1839		25.2	25.0	0.6	50.0
Naphthalene	Ave	1.232	1.258		25.5	25.0	2.1	50.0
1,2,3-Trichlorobenzene	Ave	0.4008	0.4177		26.1	25.0	4.2	50.0
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1684		30.0	25.0	20.0	50.0
Toluene-d8 (Surr)	QuaF		2.350		29.8	25.0	19.2	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6243	0.7315		29.3	25.0	17.2	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6683.D
 Lims ID: CCVIS Client ID:
 Inject. Date: 07-Oct-2011 10:57:30 Dil. Factor: 1.0000
 Sample Type: CCVIS
 Sample ID: CCVIS
 Misc. Info.: 480-0006515-002 =480-0006515-002
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 2
 Lims Batch ID: 34409 Lims Sample ID: 2
 Sublist: chrom-S-8260*sub1
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 11:16:19 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 11:16:19

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	442722	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	207074	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	93	217351	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	54	74539	30.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	77	486520	29.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	88	151468	29.3	
10 Dichlorodifluoromethane	85	1.260	1.260	0.0	86	122892	30.7	
12 Chloromethane	50	1.400	1.400	0.0	89	130753	27.8	
13 Vinyl chloride	62	1.509	1.509	0.0	67	121753	25.4	
14 Bromomethane	94	1.771	1.771	0.0	88	33262	25.4	
15 Chloroethane	64	1.868	1.868	0.0	88	62823	23.7	
17 Trichlorofluoromethane	101	2.093	2.093	0.0	82	147585	29.3	
20 Acrolein	56	2.489	2.489	0.0	94	84906	450.4	
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.550	2.550	0.0	56	115185	29.9	
22 1,1-Dichloroethene	96	2.550	2.550	0.0	88	112298	25.1	
23 Acetone	43	2.641	2.641	0.0	99	240706	140.9	
25 Iodomethane	142	2.708	2.708	0.0	74	123203	28.6	
26 Carbon disulfide	76	2.726	2.726	0.0	97	337091	28.3	
27 Methyl acetate	43	2.896	2.896	0.0	97	187144	25.6	
29 Acetonitrile	40	2.927	2.927	0.0	99	386082	1117.5	
30 Methylene Chloride	84	3.030	3.030	0.0	79	126049	23.6	
32 Methyl tert-butyl ether	73	3.164	3.164	0.0	90	370648	25.9	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	62	118810	24.7	
33 Acrylonitrile	53	3.237	3.237	0.0	97	254192	122.9	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	199241	24.0	
37 Vinyl acetate	43	3.584	3.584	0.0	97	1007256	129.6	
44 2,2-Dichloropropane	77	3.967	3.967	0.0	91	99031	27.0	
45 cis-1,2-Dichloroethene	96	3.992	3.992	0.0	67	129436	24.4	
43 2-Butanone (MEK)	43	4.040	4.040	0.0	100	349928	128.6	
48 Chlorobromomethane	128	4.186	4.186	0.0	91	63814	25.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
49 Tetrahydrofuran	42	4.211	4.211	0.0	87	225295	125.0	
50 Chloroform	83	4.247	4.247	0.0	69	199732	24.5	
52 Cyclohexane	56	4.338	4.338	0.0	90	212135	25.3	
51 1,1,1-Trichloroethane	97	4.344	4.344	0.0	91	147904	27.3	
55 Carbon tetrachloride	117	4.448	4.448	0.0	78	138313	26.6	
54 1,1-Dichloropropene	75	4.460	4.460	0.0	92	158456	24.4	
57 Benzene	78	4.630	4.630	0.0	96	482903	23.8	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	154806	25.9	
62 Trichloroethene	95	5.105	5.105	0.0	93	119351	24.5	
64 Methylcyclohexane	83	5.196	5.196	0.0	88	227342	25.7	
65 1,2-Dichloropropane	63	5.299	5.299	0.0	91	112447	22.9	
67 Dibromomethane	93	5.403	5.403	0.0	88	69473	24.8	
68 Dichlorobromomethane	83	5.518	5.518	0.0	93	143514	25.2	
69 2-Chloroethyl vinyl ether	63	5.738	5.738	0.0	92	389480	116.5	
72 cis-1,3-Dichloropropene	75	5.841	5.841	0.0	90	180465	24.1	
73 4-Methyl-2-pentanone (MIBK)	43	5.957	5.957	0.0	97	697047	127.2	
74 Toluene	92	6.060	6.060	0.0	95	310655	23.7	
77 trans-1,3-Dichloropropene	75	6.273	6.273	0.0	89	163911	24.3	
75 Ethyl methacrylate	69	6.303	6.303	0.0	69	173455	25.8	
79 1,1,2-Trichloroethane	83	6.419	6.419	0.0	84	89822	23.9	
81 Tetrachloroethene	166	6.455	6.455	0.0	79	130842	25.3	
82 1,3-Dichloropropane	76	6.541	6.541	0.0	90	184682	23.3	
80 2-Hexanone	43	6.589	6.589	0.0	96	520043	129.6	
83 Chlorodibromomethane	129	6.717	6.717	0.0	86	109193	25.9	
84 Ethylene Dibromide	107	6.802	6.802	0.0	97	110273	24.9	
87 Chlorobenzene	112	7.149	7.149	0.0	86	349123	24.3	
88 Ethylbenzene	91	7.216	7.216	0.0	98	576085	24.3	
89 1,1,1,2-Tetrachloroethane	131	7.222	7.222	0.0	40	110373	25.8	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	98	464372	49.5	
91 o-Xylene	106	7.623	7.623	0.0	96	222091	24.3	
92 Styrene	104	7.648	7.648	0.0	95	387913	24.6	
95 Bromoform	173	7.836	7.836	0.0	96	62222	21.5	
94 Isopropylbenzene	105	7.909	7.909	0.0	95	590271	23.7	
101 Bromobenzene	156	8.183	8.183	0.0	92	150925	24.3	
97 1,1,2,2-Tetrachloroethane	83	8.214	8.214	0.0	79	147631	22.9	
99 N-Propylbenzene	91	8.238	8.238	0.0	98	709751	23.6	
100 1,2,3-Trichloropropane	110	8.250	8.250	0.0	62	47233	24.5	
98 trans-1,4-Dichloro-2-butene	53	8.256	8.256	0.0	84	166345	120.5	
103 2-Chlorotoluene	126	8.323	8.323	0.0	96	145545	23.8	
102 1,3,5-Trimethylbenzene	105	8.378	8.378	0.0	84	497889	23.8	
105 4-Chlorotoluene	126	8.414	8.414	0.0	97	156538	24.4	
106 tert-Butylbenzene	134	8.645	8.645	0.0	89	111712	24.0	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	69	505219	24.0	
109 sec-Butylbenzene	105	8.822	8.822	0.0	94	650921	23.8	
111 1,3-Dichlorobenzene	146	8.937	8.937	0.0	72	294029	24.8	
110 4-Isopropyltoluene	119	8.937	8.937	0.0	97	552732	24.3	
113 1,4-Dichlorobenzene	146	9.010	9.010	0.0	94	301269	24.2	
115 n-Butylbenzene	91	9.278	9.278	0.0	94	506540	24.0	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	93	287033	24.5	
117 1,2-Dibromo-3-Chloropropane	75	9.996	9.996	0.0	69	26049	21.2	
119 1,2,4-Trichlorobenzene	180	10.647	10.647	0.0	93	200314	24.7	
120 Hexachlorobutadiene	225	10.750	10.750	0.0	95	81432	25.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
121 Naphthalene	128	10.860	10.860	0.0	96	556954	25.5	
122 1,2,3-Trichlorobenzene	180	11.048	11.048	0.0	94	184916	26.1	
S 123 Total BTEX	1				0		145.5	
S 124 Xylenes, Total	1				0		73.8	
S 125 1,2-Dichloroethene, Total	1				0		49.0	
S 126 1,3-Dichloropropene, Total	1				0		48.4	

Report Date: 07-Oct-2011 11:16:19

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6683.D

Injection Date: 07-Oct-2011 10:57:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

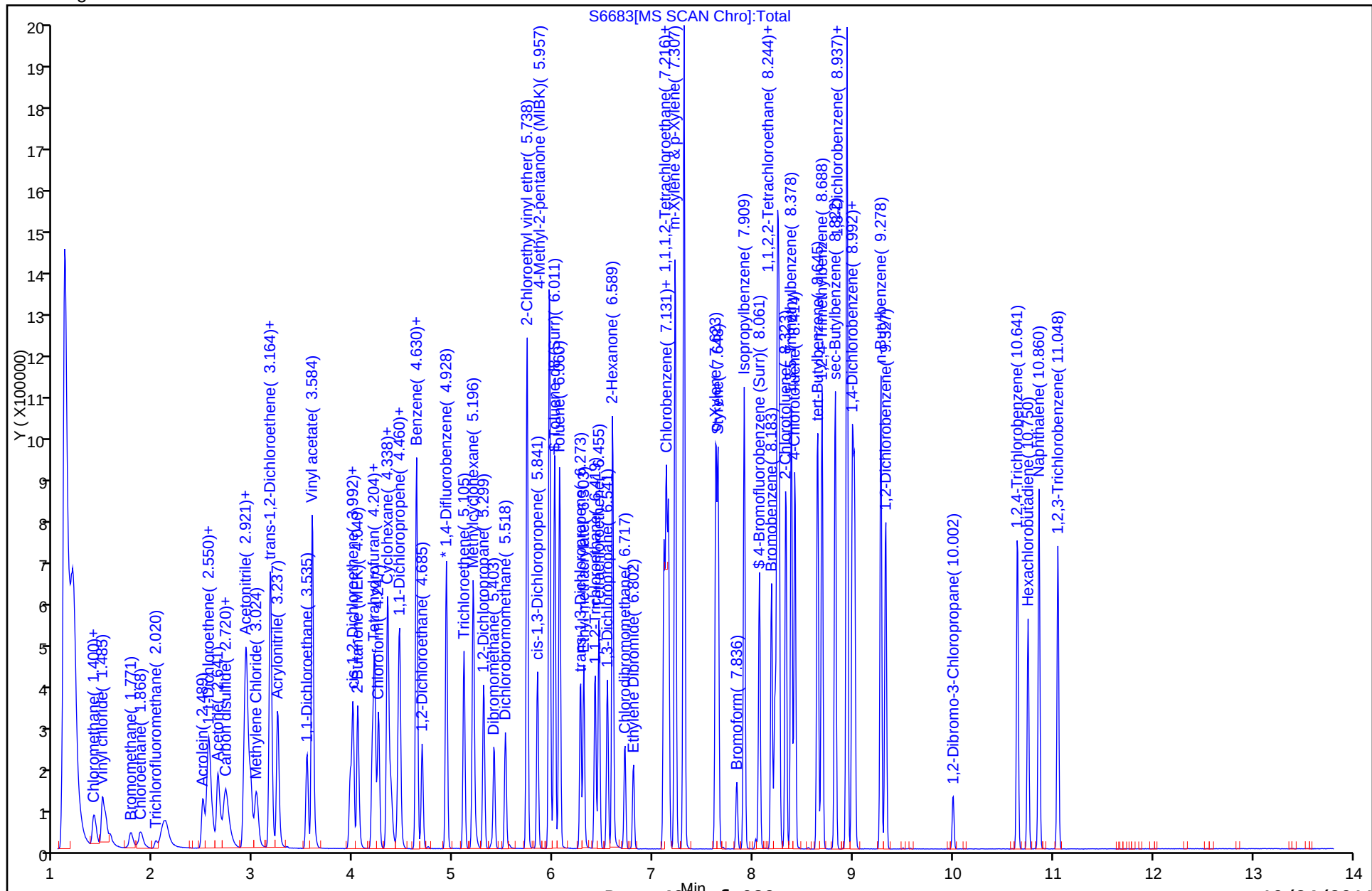
Lims Sample ID: 2

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab Sample ID: CCV 480-34409/3 Calibration Date: 10/07/2011 11:31
Instrument ID: HP5973S Calib Start Date: 09/20/2011 14:39
GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 16:29
Lab File ID: S6684.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloroethane-d4 (Surr)	QuaF		0.1666		29.7	25.0	18.8	50.0
Toluene-d8 (Surr)	QuaF		2.316		29.4	25.0	17.6	50.0
4-Bromofluorobenzene (Surr)	Ave	0.6243	0.7235		29.0	25.0	15.9	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6684.D
 Lims ID: CCV Client ID:
 Inject. Date: 07-Oct-2011 11:31:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: CCV
 Misc. Info.: 480-0006515-003 =480-0006515-003
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 34409 Lims Sample ID: 3
 Sublist: chrom-S-8260*sub11
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:33:16 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 12:33:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	444480	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	204238	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	76	215664	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	0.0	96	74055	29.7	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	473106	29.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	65	147766	29.0	
11 Chlorodifluoromethane	51	1.297	1.297	0.0	74	119976	35.6	
16 Dichlorofluoromethane	67	2.094	2.094	0.0	81	176433	38.5	
18 Ethyl ether	59	2.319	2.319	0.0	91	106691	28.8	
19 Propene oxide	58	2.404	2.404	0.0	79	122843	124.7	
24 Isopropyl alcohol	45	2.812	2.812	0.0	97	190870	634.9	
28 3-Chloro-1-propene	41	2.848	2.848	0.0	90	194994	31.2	
31 2-Methyl-2-propanol	59	3.140	3.140	0.0	94	324616	627.6	
35 Hexane	57	3.341	3.341	0.0	93	184473	29.8	
36 Isopropyl ether	45	3.548	3.548	0.0	94	409877	27.1	
40 2-Chloro-1,3-butadiene	53	3.584	3.584	0.0	82	201106	30.8	
38 1,1-Dimethoxyethane	75	3.615	3.615	0.0	49	36286	72.6	
41 Tert-butyl ethyl ether	59	3.834	3.834	0.0	96	363781	26.4	
42 Ethyl acetate	43	4.065	4.065	0.0	99	115764	27.3	
46 Propionitrile	54	4.132	4.132	0.0	99	216586	273.5	
47 Methacrylonitrile	41	4.217	4.217	0.0	91	86997	26.5	
53 Isobutyl alcohol	43	4.643	4.643	0.0	93	297288	1112.3	
56 Tert-amyl methyl ether	73	4.691	4.691	0.0	44	331306	25.8	
59 n-Heptane	43	4.764	4.764	0.0	90	198214	26.5	
60 n-Butanol	56	5.129	5.129	0.0	89	210018	1215.0	
63 Methyl methacrylate	41	5.373	5.373	0.0	91	119650	27.6	
66 1,4-Dioxane	88	5.415	5.415	0.0	74	57308	1504.1	
70 2-Nitropropane	43	5.732	5.732	0.0	99	120055	98.9	
71 Epichlorohydrin	57	5.811	5.811	0.0	98	293013	517.1	
76 2-Methylthiophene	97	6.164	6.164	0.0	97	404511	25.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
78 3-Methylthiophene	97	6.291	6.291	0.0	98	364050	22.4	
85 3-Chlorobenzotrifluoride	180	7.119	7.119	0.0	93	203023	28.2	
86 4-Chlorobenzotrifluoride	180	7.161	7.161	0.0	85	200744	28.9	
93 2-Chlorobenzotrifluoride	180	7.849	7.849	0.0	97	204342	28.4	
96 Cyclohexanone	55	8.056	8.056	0.0	92	432823	303.4	
104 3-Chlorotoluene	126	8.378	8.378	0.0	96	170567	27.0	
108 Pentachloroethane	167	8.694	8.694	0.0	86	75959	33.4	
114 Dicyclopentadiene	66	8.992	8.992	0.0	95	598106	24.9	
112 1,2,3-Trimethylbenzene	105	9.041	9.041	0.0	51	586718	26.9	
118 1,3,5-Trichlorobenzene	180	10.118	10.118	0.0	97	236453	27.8	

Report Date: 07-Oct-2011 12:33:16

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6684.D

Injection Date: 07-Oct-2011 11:31:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

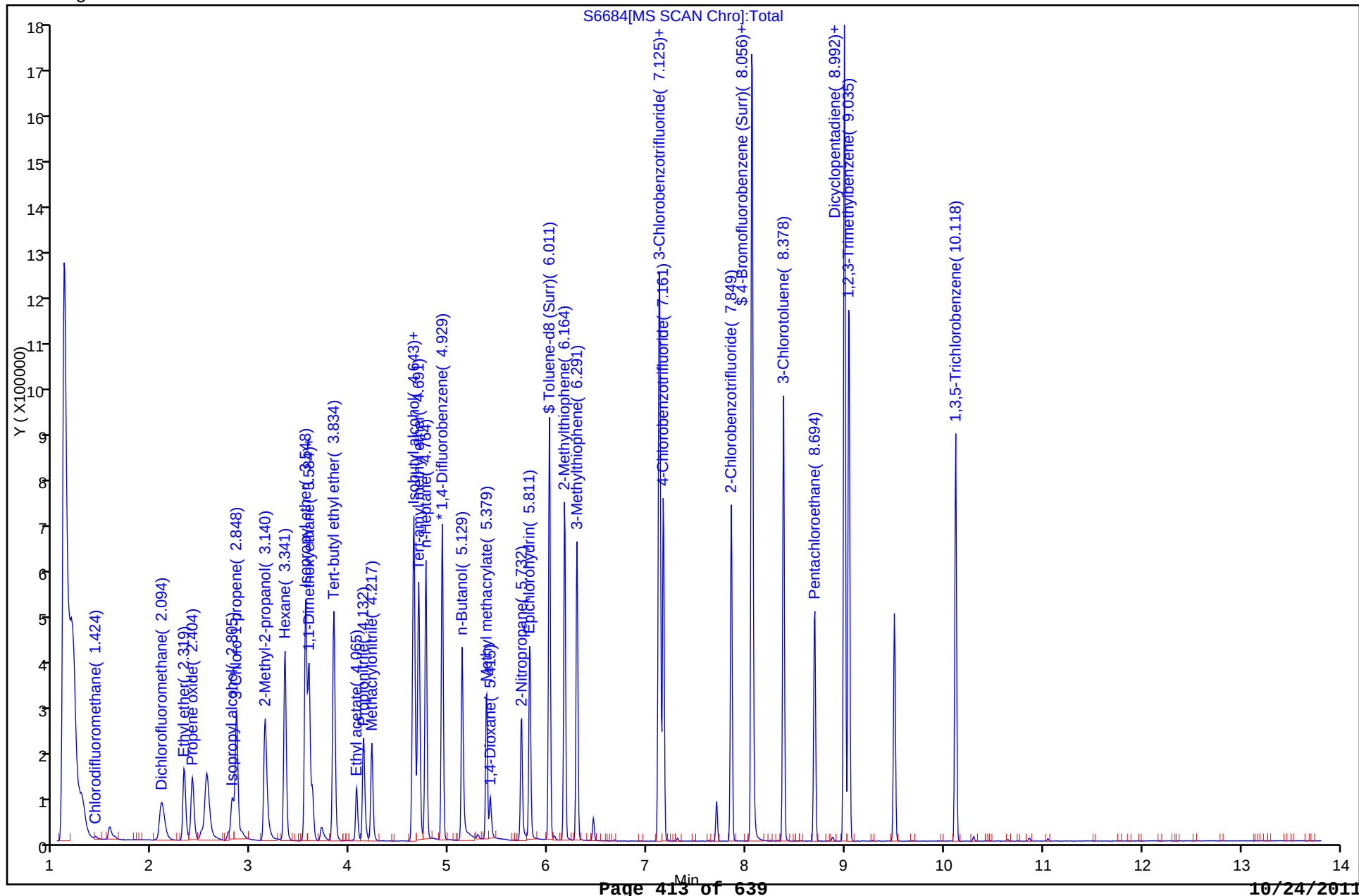
Lims Sample ID: 3

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Lab Sample ID: CCV 480-34409/3 Calibration Date: 10/07/2011 11:31
 Instrument ID: HP5973S Calib Start Date: 09/20/2011 17:14
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 09/20/2011 19:03
 Lab File ID: S6684.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorodifluoromethane	Lin1F		0.2699		35.6	25.0	42.4	50.0
Dichlorofluoromethane	Ave	0.2578	0.3969		38.5	25.0	53.9*	50.0
Ethyl ether	Ave	0.2082	0.2400		28.8	25.0	15.3	50.0
Isopropyl alcohol	Ave	0.0169	0.0215		635	500	27.0	50.0
Allyl chloride	Ave	0.3518	0.4387		31.2	25.0	24.7	50.0
t-Butyl alcohol	Ave	0.0291	0.0365		628	500	25.5	50.0
Hexane	Ave	0.3487	0.4150		29.8	25.0	19.0	50.0
Isopropyl ether	Ave	0.8519	0.9222		27.1	25.0	8.2	50.0
Chloroprene	Ave	0.3672	0.4525		30.8	25.0	23.2	50.0
1,1-Dimethoxyethane	LinF		0.0163		72.6	125	-41.9	50.0
Tert-butyl ethyl ether	Ave	0.7747	0.8184		26.4	25.0	5.6	50.0
Ethyl acetate	Ave	0.2381	0.2605		27.3	25.0	9.4	50.0
Propionitrile	Ave	0.0445	0.0487		274	250	9.4	50.0
Methacrylonitrile	Ave	0.1846	0.1957		26.5	25.0	6.0	50.0
Isobutyl alcohol	Lin1F		0.0167		1110	1000	11.2	50.0
Tert-amyl methyl ether	Ave	0.7228	0.7454		25.8	25.0	3.1	50.0
n-Heptane	Ave	0.4207	0.4460		26.5	25.0	6.0	50.0
n-Butanol	Lin1F		0.0118		1220	1000	21.5	50.0
Methyl methacrylate	Ave	0.2439	0.2692		27.6	25.0	10.4	50.0
1,4-Dioxane	Ave	0.0047	0.0070		1500	1000	50.4*	50.0
2-Nitropropane	LinF		0.1113		98.9	125	-20.9	50.0
Epichlorohydrin	Ave	0.0319	0.0330		517	500	3.4	50.0
2-Methylthiophene	Ave	1.866	1.876		25.1	25.0	0.5	50.0
3-Methylthiophene	Ave	1.883	1.688		22.4	25.0	-10.3	50.0
3-Chlorobenzotrifluoride	Ave	0.8359	0.9414		28.2	25.0	12.6	50.0
p-Monochlorobenzotrifluoride	Ave	0.8063	0.9308		28.9	25.0	15.4	50.0
2-Chlorobenzotrifluoride	Ave	0.8332	0.9475		28.4	25.0	13.7	50.0
Cyclohexanone	Ave	0.1654	0.2007		303	250	21.4	50.0
3-Chlorotoluene	Ave	0.7333	0.7909		27.0	25.0	7.9	50.0
Pentachloroethane	Ave	0.2636	0.3522		33.4	25.0	33.6	50.0
Dicyclopentadiene	Ave	2.779	2.773		24.9	25.0	-0.2	50.0
1,2,3-Trimethylbenzene	Ave	2.531	2.721		26.9	25.0	7.5	50.0
1,3,5-Trichlorobenzene	Ave	0.9875	1.096		27.8	25.0	11.0	50.0

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6684.D
 Lims ID: CCV Client ID:
 Inject. Date: 07-Oct-2011 11:31:30 Dil. Factor: 1.0000
 Sample Type: CCV
 Sample ID: CCV
 Misc. Info.: 480-0006515-003 =480-0006515-003
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 3
 Lims Batch ID: 34409 Lims Sample ID: 3
 Sublist: chrom-S-8260*sub11
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:33:16 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 12:33:16

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	444480	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	204238	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	76	215664	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	0.0	96	74055	29.7	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	473106	29.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	65	147766	29.0	
11 Chlorodifluoromethane	51	1.297	1.297	0.0	74	119976	35.6	
16 Dichlorofluoromethane	67	2.094	2.094	0.0	81	176433	38.5	
18 Ethyl ether	59	2.319	2.319	0.0	91	106691	28.8	
19 Propene oxide	58	2.404	2.404	0.0	79	122843	124.7	
24 Isopropyl alcohol	45	2.812	2.812	0.0	97	190870	634.9	
28 3-Chloro-1-propene	41	2.848	2.848	0.0	90	194994	31.2	
31 2-Methyl-2-propanol	59	3.140	3.140	0.0	94	324616	627.6	
35 Hexane	57	3.341	3.341	0.0	93	184473	29.8	
36 Isopropyl ether	45	3.548	3.548	0.0	94	409877	27.1	
40 2-Chloro-1,3-butadiene	53	3.584	3.584	0.0	82	201106	30.8	
38 1,1-Dimethoxyethane	75	3.615	3.615	0.0	49	36286	72.6	
41 Tert-butyl ethyl ether	59	3.834	3.834	0.0	96	363781	26.4	
42 Ethyl acetate	43	4.065	4.065	0.0	99	115764	27.3	
46 Propionitrile	54	4.132	4.132	0.0	99	216586	273.5	
47 Methacrylonitrile	41	4.217	4.217	0.0	91	86997	26.5	
53 Isobutyl alcohol	43	4.643	4.643	0.0	93	297288	1112.3	
56 Tert-amyl methyl ether	73	4.691	4.691	0.0	44	331306	25.8	
59 n-Heptane	43	4.764	4.764	0.0	90	198214	26.5	
60 n-Butanol	56	5.129	5.129	0.0	89	210018	1215.0	
63 Methyl methacrylate	41	5.373	5.373	0.0	91	119650	27.6	
66 1,4-Dioxane	88	5.415	5.415	0.0	74	57308	1504.1	
70 2-Nitropropane	43	5.732	5.732	0.0	99	120055	98.9	
71 Epichlorohydrin	57	5.811	5.811	0.0	98	293013	517.1	
76 2-Methylthiophene	97	6.164	6.164	0.0	97	404511	25.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
78 3-Methylthiophene	97	6.291	6.291	0.0	98	364050	22.4	
85 3-Chlorobenzotrifluoride	180	7.119	7.119	0.0	93	203023	28.2	
86 4-Chlorobenzotrifluoride	180	7.161	7.161	0.0	85	200744	28.9	
93 2-Chlorobenzotrifluoride	180	7.849	7.849	0.0	97	204342	28.4	
96 Cyclohexanone	55	8.056	8.056	0.0	92	432823	303.4	
104 3-Chlorotoluene	126	8.378	8.378	0.0	96	170567	27.0	
108 Pentachloroethane	167	8.694	8.694	0.0	86	75959	33.4	
114 Dicyclopentadiene	66	8.992	8.992	0.0	95	598106	24.9	
112 1,2,3-Trimethylbenzene	105	9.041	9.041	0.0	51	586718	26.9	
118 1,3,5-Trichlorobenzene	180	10.118	10.118	0.0	97	236453	27.8	

Report Date: 07-Oct-2011 12:33:16

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6684.D

Injection Date: 07-Oct-2011 11:31:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

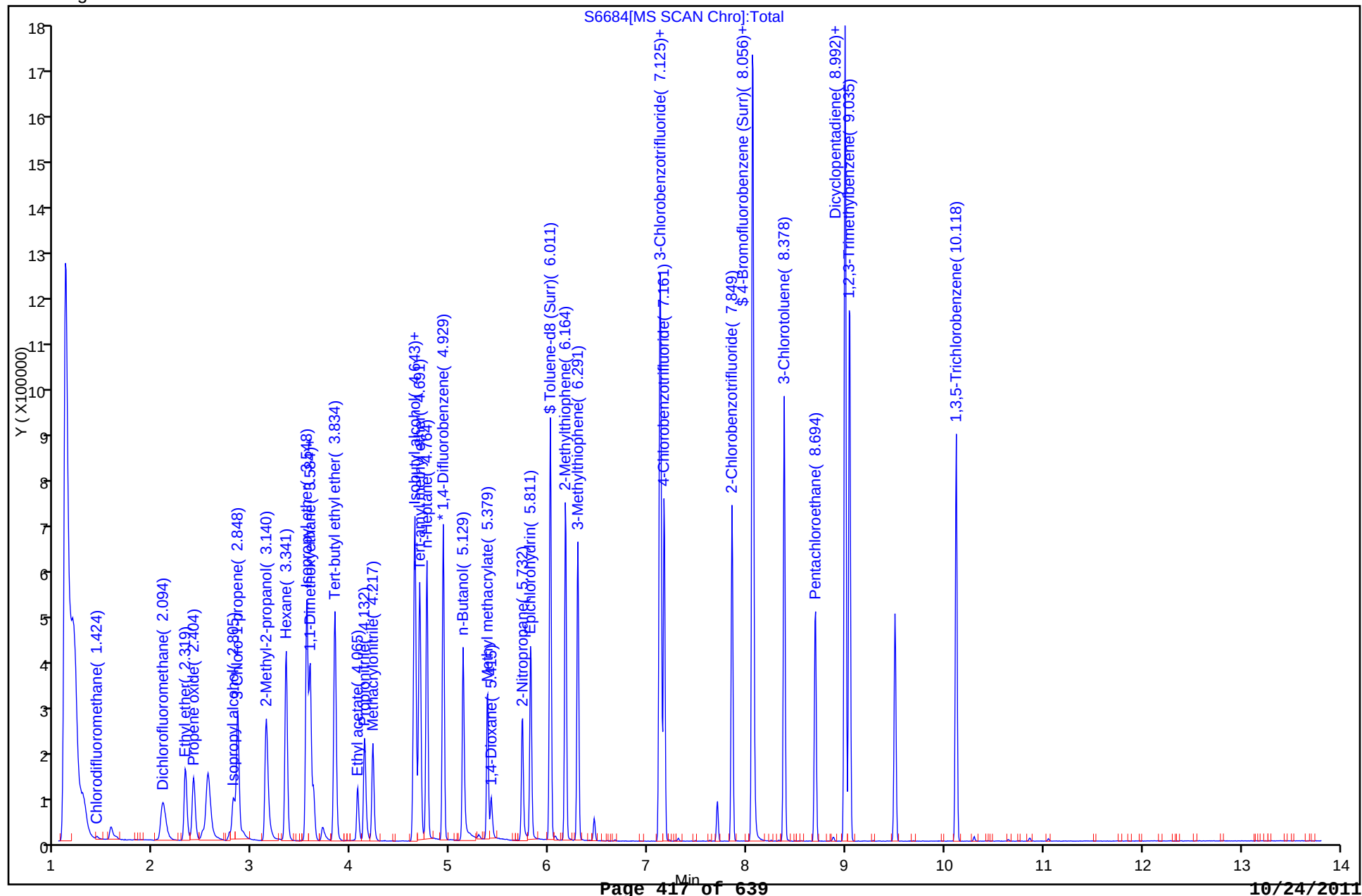
Lims Sample ID: 3

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6119.D
Lims ID: BFB Client ID:
Inject. Date: 20-Sep-2011 13:54:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0006101-001 =480-0006101-001
Operator: DHC Instrument ID: HP5973S
Vol. Injected: 1.0000 ALS Bottle#: 1
Lims Batch ID: 32019 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S-8260.m
Last Update: 20-Sep-2011 14:08:02 Calib Date: 15-Sep-2011 17:55:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973S\20110915-5989.b\S5914.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 20-Sep-2011 14:08:02

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
\$ 61 BFB	95	3.879	3.879	0.0	0	74687	0	

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6119.D

Injection Date: 20-Sep-2011 13:54:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 32019

Lims Sample ID: 1

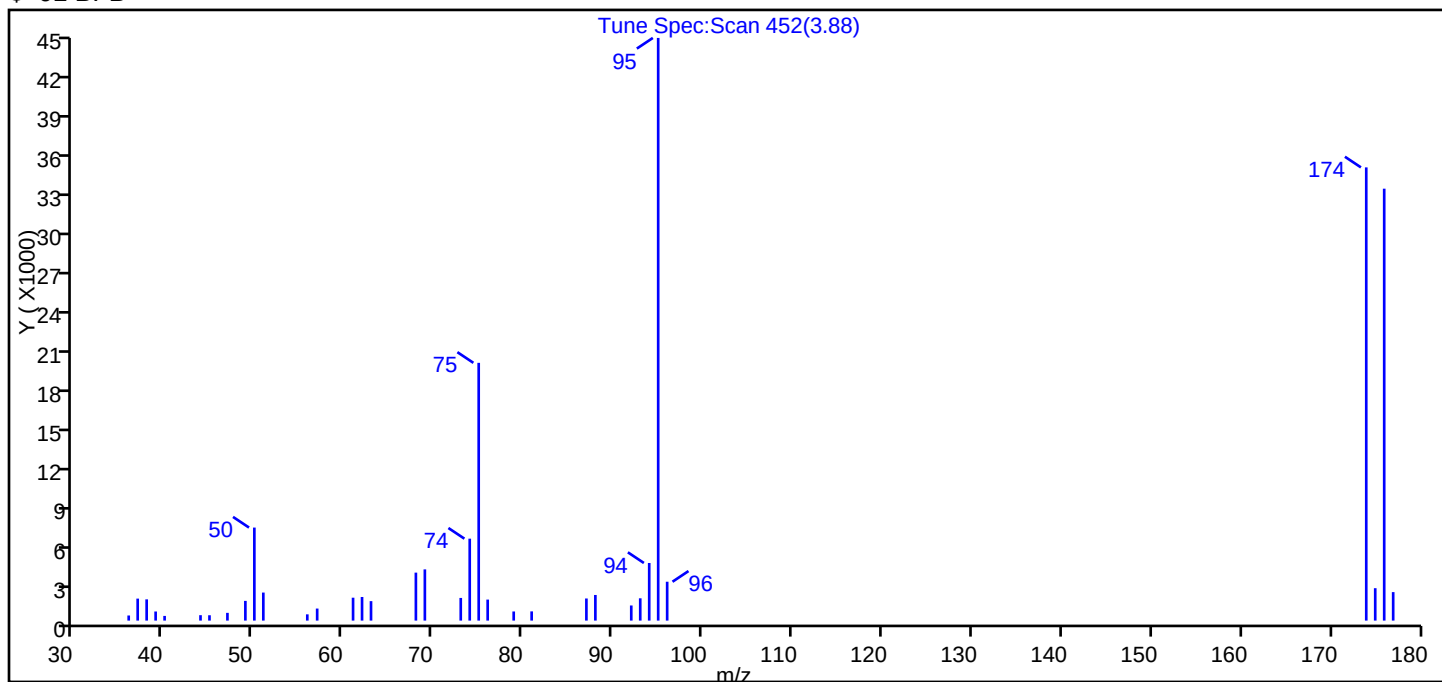
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.97
75	30.00 - 60.00% of mass 95	44.24
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.78
175	5.00 - 9.00% of mass 174	5.56 (7.15)
176	95.00 - 101.00% of mass 174	74.13 (95.30)
177	5.00 - 9.00% of mass 176	4.89 (6.59)

Data File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6119.D\S-8260.rslt\spectra.d

Injection Date: 20-Sep-2011 13:54:30

Spectrum: Tune Spec:Scan 452(3.88)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 35

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	389	50.00	7094	73.00	1728	93.00	1700
37.00	1676	51.00	2138	74.00	6247	94.00	4393
38.00	1620	55.90	477	75.00	19656	95.00	44432
39.00	694	57.00	918	76.00	1602	96.00	2964
40.00	357	61.00	1746	78.90	696	173.90	34560
44.00	413	62.00	1800	80.90	703	174.90	2471
45.00	408	63.00	1484	87.00	1686	175.90	32936
47.00	590	68.00	3658	88.00	1954	176.90	2172
49.00	1503	69.00	3905	92.00	1153		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6627.D
Lims ID: BFB Client ID:
Inject. Date: 05-Oct-2011 09:06:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0006450-001 =480-0006450-001
Operator: DHC Instrument ID: HP5973S
Vol. Injected: 1.0000 ALS Bottle#: 1
Lims Batch ID: 34016 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
Last Update: 05-Oct-2011 09:21:11 Calib Date: 20-Sep-2011 19:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 05-Oct-2011 09:21:11

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
\$ 61 BFB	95	3.885	3.885	0.0	0	79810	0	

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6627.D

Injection Date: 05-Oct-2011 09:06:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34016

Lims Sample ID: 1

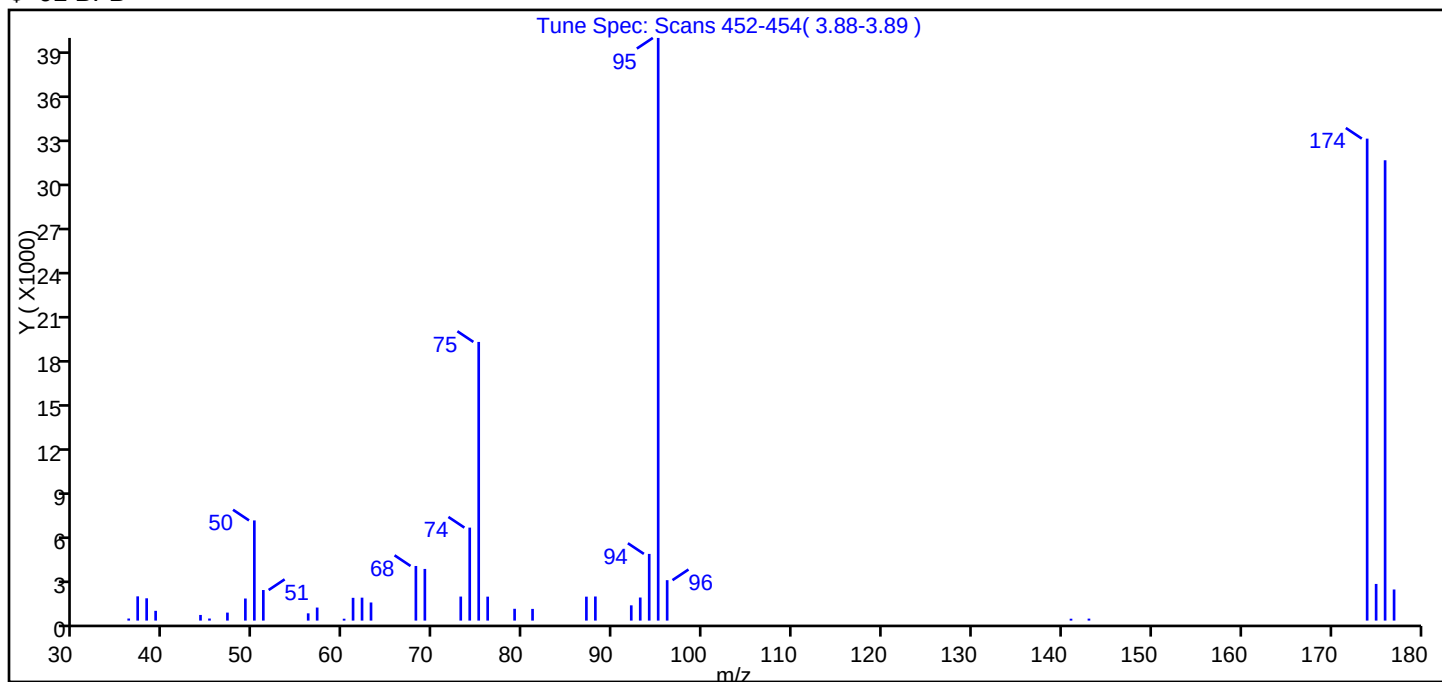
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.19
75	30.00 - 60.00% of mass 95	47.83
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.72
175	5.00 - 9.00% of mass 174	6.29 (7.61)
176	95.00 - 101.00% of mass 174	79.00 (95.51)
177	5.00 - 9.00% of mass 176	5.34 (6.76)

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6627.D\S-8260.rslt\spectra.d

Injection Date: 05-Oct-2011 09:06:30

Spectrum: Tune Spec: Scans 452-454(3.88-3.89)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	139	56.00	489	75.00	18752	96.00	2721
37.00	1632	57.00	878	76.00	1612	141.00	127
38.00	1501	60.00	127	79.00	795	143.00	133
39.00	658	61.00	1533	81.00	787	174.00	32432
44.00	380	62.00	1544	87.00	1611	175.00	2467
45.00	139	63.00	1219	88.00	1622	176.00	30976
47.00	538	68.00	3675	92.00	1027	177.00	2094
49.00	1486	69.00	3477	93.00	1553		
50.00	6741	73.00	1617	94.00	4488		
51.00	2057	74.00	6257	95.00	39208		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6654.D
Lims ID: BFB Client ID:
Inject. Date: 06-Oct-2011 09:30:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0006479-001 =480-0006479-001
Operator: DHC Instrument ID: HP5973S
Vol. Injected: 1.0000 ALS Bottle#: 1
Lims Batch ID: 34202 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
Last Update: 06-Oct-2011 10:03:45 Calib Date: 20-Sep-2011 19:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 10:03:45

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
\$ 61 BFB	95	3.885	3.885	0.0	0	62384	0	

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6654.D

Injection Date: 06-Oct-2011 09:30:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34202

Lims Sample ID: 1

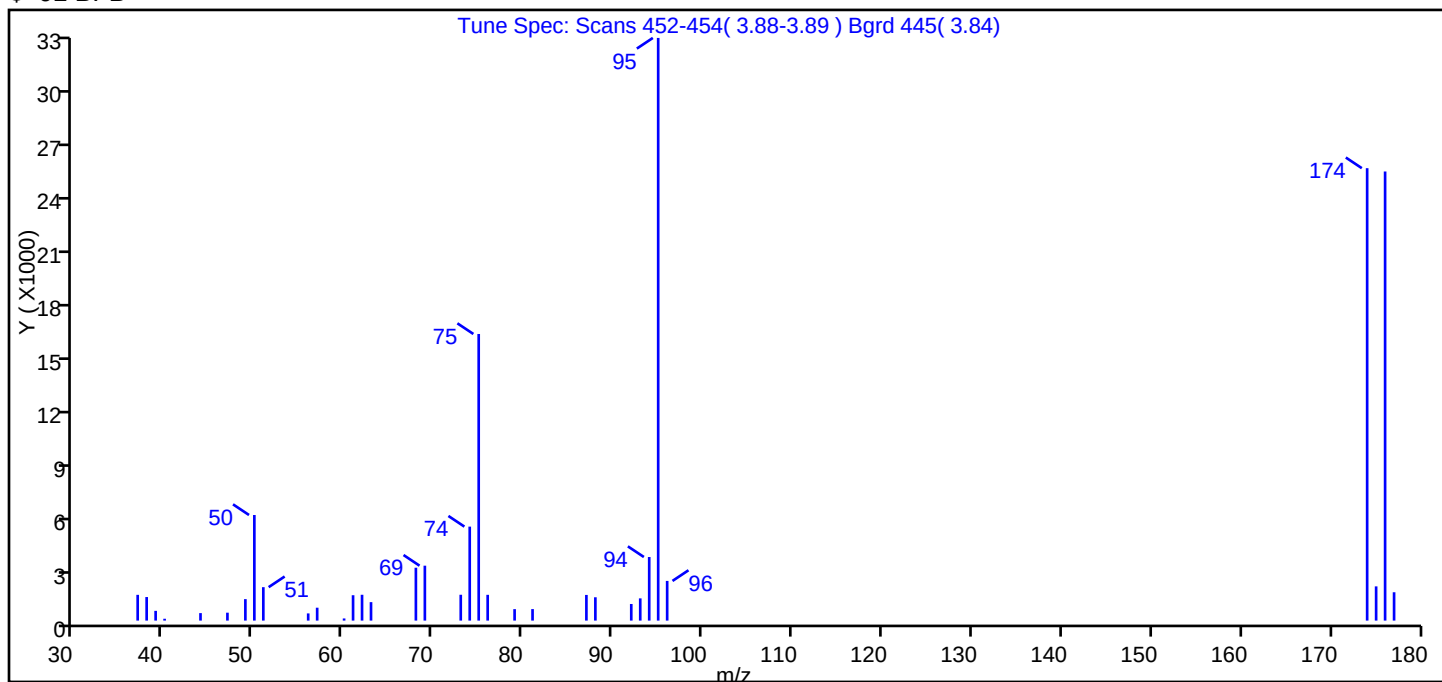
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.12
75	30.00 - 60.00% of mass 95	49.19
96	5.00 - 9.00% of mass 95	6.81
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.65
175	5.00 - 9.00% of mass 174	5.87 (7.56)
176	95.00 - 101.00% of mass 174	77.08 (99.27)
177	5.00 - 9.00% of mass 176	4.87 (6.31)

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6654.D\S-8260.rslt\spectra.d
Injection Date: 06-Oct-2011 09:30:30
Spectrum: Tune Spec: Scans 452-454(3.88-3.89) Bgrd 445(3.84)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 34

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1430	56.00	399	74.00	5218	94.00	3530
38.00	1308	57.00	716	75.00	15914	95.00	32352
39.00	541	60.00	119	76.00	1431	96.00	2203
40.00	103	61.00	1409	79.00	636	174.00	25120
44.00	416	62.00	1434	81.00	639	175.00	1900
47.00	439	63.00	1025	87.00	1425	176.00	24936
49.00	1192	68.00	2935	88.00	1295	177.00	1574
50.00	5863	69.00	3049	92.00	922		
51.00	1856	73.00	1435	93.00	1234		

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6682.D
Lims ID: BFB Client ID:
Inject. Date: 07-Oct-2011 09:47:30 Dil. Factor: 1.0000
Sample Type: BFB
Sample ID: BFB
Misc. Info.: 480-0006515-001 =480-0006515-001
Operator: DHC Instrument ID: HP5973S
Vol. Injected: 1.0000 ALS Bottle#: 1
Lims Batch ID: 34409 Lims Sample ID: 1
Detector: MS SCAN

Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
Last Update: 07-Oct-2011 10:36:31 Calib Date: 20-Sep-2011 19:03:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
Limit Group: MV - 8260B ICAL
Integrator: RTE ID Type: RT Order ID
Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 10:36:31

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
\$ 61 BFB	95	3.879	3.879	0.0	0	68603	0	

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6682.D

Injection Date: 07-Oct-2011 09:47:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

Lims Sample ID: 1

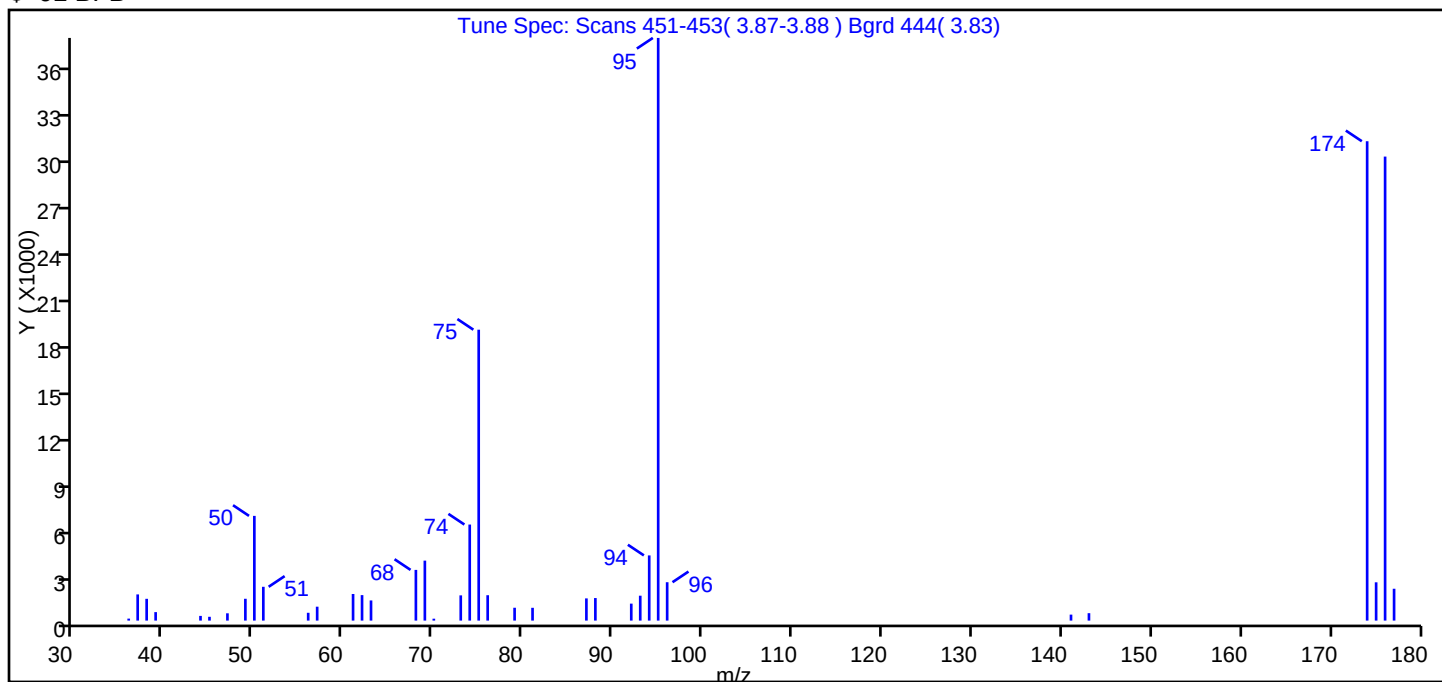
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Tune Method: BFB Method 8260

\$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.97
75	30.00 - 60.00% of mass 95	49.92
96	5.00 - 9.00% of mass 95	6.59
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	82.27
175	5.00 - 9.00% of mass 174	6.57 (7.99)
176	95.00 - 101.00% of mass 174	79.64 (96.80)
177	5.00 - 9.00% of mass 176	5.47 (6.86)

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6682.D\S-8260.rslt\spectra.d

Injection Date: 07-Oct-2011 09:47:30

Spectrum: Tune Spec: Scans 451-453(3.87-3.88) Bgrd 444(3.83)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 37

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	127	56.00	500	75.00	18632	96.00	2458
37.00	1677	57.00	891	76.00	1626	141.00	383
38.00	1395	61.00	1704	79.00	823	143.00	475
39.00	543	62.00	1632	81.00	820	174.00	30704
44.00	301	63.00	1291	87.00	1422	175.00	2453
45.00	244	68.00	3247	88.00	1444	176.00	29720
47.00	467	69.00	3841	92.00	1087	177.00	2040
49.00	1398	70.00	122	93.00	1595		
50.00	6707	73.00	1616	94.00	4175		
51.00	2165	74.00	6152	95.00	37320		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-34016/5

Matrix: Water Lab File ID: S6631.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 10:52

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-34016/5
 Matrix: Water Lab File ID: S6631.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 10:52
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		66-137
2037-26-5	Toluene-d8 (Surr)	115		71-126
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6631.D
 Lims ID: MB Client ID:
 Inject. Date: 05-Oct-2011 10:52:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: MB
 Misc. Info.: 480-0006450-005 =480-0006450-005
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 34016 Lims Sample ID: 5
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:11:00 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 05-Oct-2011 11:11:00

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.928	0.001	94	537825	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	243392	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	245626	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	86736	28.6	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	554917	28.8	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	87	165253	27.2	
10 Dichlorodifluoromethane	85		1.260					
11 Chlorodifluoromethane	51		1.303					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.504					
14 Bromomethane	94		1.765					
15 Chloroethane	64		1.862					
17 Trichlorofluoromethane	101		2.088					
16 Dichlorofluoromethane	67		2.093					
18 Ethyl ether	59		2.325					
19 Propene oxide	58		2.404					
20 Acrolein	56		2.489					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
25 Iodomethane	142		2.702					
26 Carbon disulfide	76		2.720					
24 Isopropyl alcohol	45		2.811					
28 3-Chloro-1-propene	41		2.848					
27 Methyl acetate	43		2.903					
29 Acetonitrile	40		2.927					
30 Methylene Chloride	84		3.024					
31 2-Methyl-2-propanol	59		3.140					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
33 Acrylonitrile	53		3.243					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
35 Hexane	57		3.341					
39 1,1-Dichloroethane	63		3.535					
36 Isopropyl ether	45		3.547					
40 2-Chloro-1,3-butadiene	53		3.584					
37 Vinyl acetate	43		3.590					
38 1,1-Dimethoxyethane	75		3.620					
41 Tert-butyl ethyl ether	59		3.833					
44 2,2-Dichloropropane	77		3.967					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
42 Ethyl acetate	43		4.065					
46 Propionitrile	54		4.131					
48 Chlorobromomethane	128		4.193					
49 Tetrahydrofuran	42		4.211					
47 Methacrylonitrile	41		4.217					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.339					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
54 1,1-Dichloropropene	75		4.460					
57 Benzene	78		4.631					
53 Isobutyl alcohol	43		4.642					
58 1,2-Dichloroethane	62		4.685					
56 Tert-amyl methyl ether	73		4.691					
59 n-Heptane	43		4.764					
62 Trichloroethene	95		5.105					
60 n-Butanol	56		5.129					
64 Methylcyclohexane	83		5.196					
65 1,2-Dichloropropane	63		5.306					
63 Methyl methacrylate	41		5.379					
67 Dibromomethane	93		5.403					
66 1,4-Dioxane	88		5.415					
68 Dichlorobromomethane	83		5.519					
70 2-Nitropropane	43		5.731					
69 2-Chloroethyl vinyl ether	63		5.738					
71 Epichlorohydrin	57		5.817					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.963					
74 Toluene	92		6.060					
76 2-Methylthiophene	97		6.163					
77 trans-1,3-Dichloropropene	75		6.273					
78 3-Methylthiophene	97		6.291					
75 Ethyl methacrylate	69		6.304					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
82 1,3-Dichloropropane	76		6.541					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
85 3-Chlorobenzotrifluoride	180		7.118					
87 Chlorobenzene	112		7.149					
86 4-Chlorobenzotrifluoride	180		7.167					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
88 Ethylbenzene	91		7.216					
89 1,1,1,2-Tetrachloroethane	131		7.222					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
93 2-Chlorobenzotrifluoride	180		7.849					
94 Isopropylbenzene	105		7.910					
96 Cyclohexanone	55		8.055					
101 Bromobenzene	156		8.183					
97 1,1,2,2-Tetrachloroethane	83		8.214					
99 N-Propylbenzene	91		8.238					
100 1,2,3-Trichloropropane	110		8.250					
98 trans-1,4-Dichloro-2-butene	53		8.256					
103 2-Chlorotoluene	126		8.323					
104 3-Chlorotoluene	126		8.378					
102 1,3,5-Trimethylbenzene	105		8.378					
105 4-Chlorotoluene	126		8.415					
106 tert-Butylbenzene	134		8.646					
107 1,2,4-Trimethylbenzene	105		8.688					
108 Pentachloroethane	167		8.694					
109 sec-Butylbenzene	105		8.822					
111 1,3-Dichlorobenzene	146		8.938					
110 4-Isopropyltoluene	119		8.938					
114 Dicyclopentadiene	66		8.992					
113 1,4-Dichlorobenzene	146		9.011					
112 1,2,3-Trimethylbenzene	105		9.041					
115 n-Butylbenzene	91		9.278					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
118 1,3,5-Trichlorobenzene	180		10.118					
119 1,2,4-Trichlorobenzene	180		10.641					
120 Hexachlorobutadiene	225		10.751					
121 Naphthalene	128		10.860					
122 1,2,3-Trichlorobenzene	180		11.049					
S 123 Total BTEX	1		30.000					7
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
T 127 Ethanol TIC	45		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 7 Ethylene oxide	1		0.000					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 05-Oct-2011 11:11:01

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6631.D

Injection Date: 05-Oct-2011 10:52:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34016

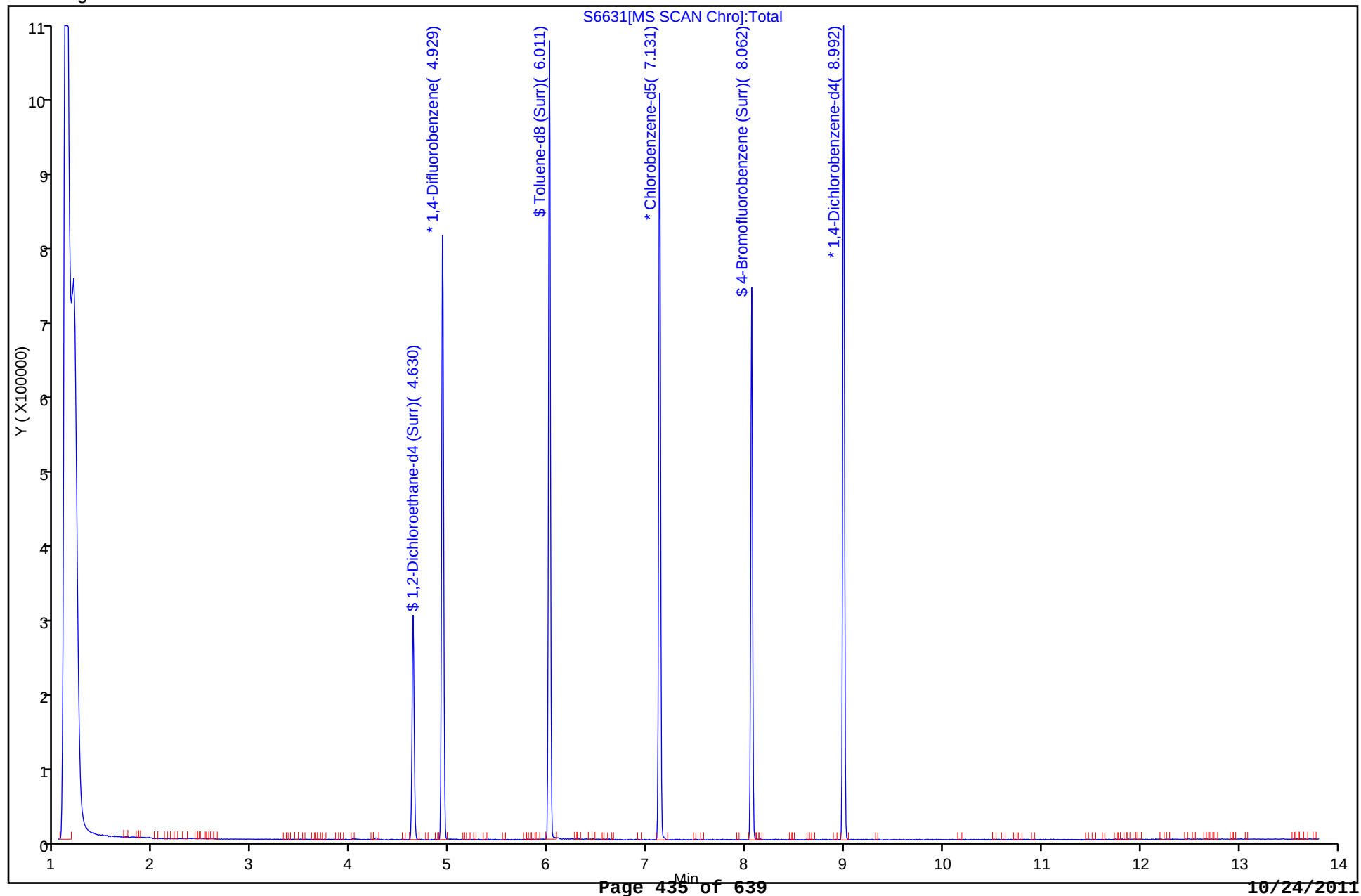
Lims Sample ID: 5

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-34202/5

Matrix: Water Lab File ID: S6658.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 12:15

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-34202/5
 Matrix: Water Lab File ID: S6658.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 12:15
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6658.D
 Lims ID: MB Client ID:
 Inject. Date: 06-Oct-2011 12:15:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: MB
 Misc. Info.: 480-0006479-005 =480-0006479-005
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 34202 Lims Sample ID: 5
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:36:05 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 13:36:05

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	446746	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	207221	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	211946	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	96	74350	29.6	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	475313	29.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	88	146739	28.4	
10 Dichlorodifluoromethane	85		1.266					
11 Chlorodifluoromethane	51		1.297					
12 Chloromethane	50		1.406					
13 Vinyl chloride	62		1.510					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.881					
17 Trichlorofluoromethane	101		2.094					
16 Dichlorofluoromethane	67		2.100					
18 Ethyl ether	59		2.319					
19 Propene oxide	58		2.404					
20 Acrolein	56		2.489					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.647					
25 Iodomethane	142		2.708					
26 Carbon disulfide	76		2.732					
24 Isopropyl alcohol	45		2.805					
28 3-Chloro-1-propene	41		2.848					
27 Methyl acetate	43		2.903					
29 Acetonitrile	40		2.927					
30 Methylene Chloride	84		3.030					
31 2-Methyl-2-propanol	59		3.140					
32 Methyl tert-butyl ether	73		3.170					
34 trans-1,2-Dichloroethene	96		3.170					
33 Acrylonitrile	53		3.243					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
35 Hexane	57		3.341					
39 1,1-Dichloroethane	63		3.535					
36 Isopropyl ether	45		3.547					
40 2-Chloro-1,3-butadiene	53		3.584					
37 Vinyl acetate	43		3.590					
38 1,1-Dimethoxyethane	75		3.614					
41 Tert-butyl ethyl ether	59		3.833					
44 2,2-Dichloropropane	77		3.967					
45 cis-1,2-Dichloroethene	96		3.998					
43 2-Butanone (MEK)	43		4.040					
42 Ethyl acetate	43		4.065					
46 Propionitrile	54		4.132					
48 Chlorobromomethane	128		4.192					
49 Tetrahydrofuran	42		4.211					
47 Methacrylonitrile	41		4.217					
50 Chloroform	83		4.253					
52 Cyclohexane	56		4.345					
51 1,1,1-Trichloroethane	97		4.345					
55 Carbon tetrachloride	117		4.448					
54 1,1-Dichloropropene	75		4.460					
57 Benzene	78		4.630					
53 Isobutyl alcohol	43		4.643					
58 1,2-Dichloroethane	62		4.685					
56 Tert-amyl methyl ether	73		4.691					
59 n-Heptane	43		4.764					
62 Trichloroethene	95		5.105					
60 n-Butanol	56		5.129					
64 Methylcyclohexane	83		5.196					
65 1,2-Dichloropropane	63		5.300					
63 Methyl methacrylate	41		5.373					
67 Dibromomethane	93		5.403					
66 1,4-Dioxane	88		5.415					
68 Dichlorobromomethane	83		5.519					
70 2-Nitropropane	43		5.725					
69 2-Chloroethyl vinyl ether	63		5.738					
71 Epichlorohydrin	57		5.811					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
76 2-Methylthiophene	97		6.163					
77 trans-1,3-Dichloropropene	75		6.273					
78 3-Methylthiophene	97		6.291					
75 Ethyl methacrylate	69		6.303					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.456					
82 1,3-Dichloropropane	76		6.541					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
85 3-Chlorobenzotrifluoride	180		7.119					
87 Chlorobenzene	112		7.149					
86 4-Chlorobenzotrifluoride	180		7.167					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
88 Ethylbenzene	91		7.216					
89 1,1,1,2-Tetrachloroethane	131		7.222					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.624					
92 Styrene	104		7.648					
95 Bromoform	173		7.837					
93 2-Chlorobenzotrifluoride	180		7.849					
94 Isopropylbenzene	105		7.910					
96 Cyclohexanone	55		8.055					
101 Bromobenzene	156		8.183					
97 1,1,2,2-Tetrachloroethane	83		8.214					
99 N-Propylbenzene	91		8.238					
100 1,2,3-Trichloropropane	110		8.250					
98 trans-1,4-Dichloro-2-butene	53		8.256					
103 2-Chlorotoluene	126		8.323					
104 3-Chlorotoluene	126		8.378					
102 1,3,5-Trimethylbenzene	105		8.378					
105 4-Chlorotoluene	126		8.414					
106 tert-Butylbenzene	134		8.646					
107 1,2,4-Trimethylbenzene	105		8.688					
108 Pentachloroethane	167		8.694					
109 sec-Butylbenzene	105		8.822					
111 1,3-Dichlorobenzene	146		8.938					
110 4-Isopropyltoluene	119		8.938					
114 Dicyclopentadiene	66		8.992					
113 1,4-Dichlorobenzene	146		9.011					
112 1,2,3-Trimethylbenzene	105		9.041					
115 n-Butylbenzene	91		9.278					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
118 1,3,5-Trichlorobenzene	180		10.118					
119 1,2,4-Trichlorobenzene	180		10.647					
120 Hexachlorobutadiene	225		10.751					
121 Naphthalene	128		10.860					
122 1,2,3-Trichlorobenzene	180		11.049					
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
S 123 Total BTEX	1		30.000					7
S 124 Xylenes, Total	1		30.000					7
T 8 t-Amyl alcohol	59		0.000					1
T 7 Ethylene oxide	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1
T 127 Ethanol TIC	45		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 06-Oct-2011 13:36:05

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6658.D

Injection Date: 06-Oct-2011 12:15:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34202

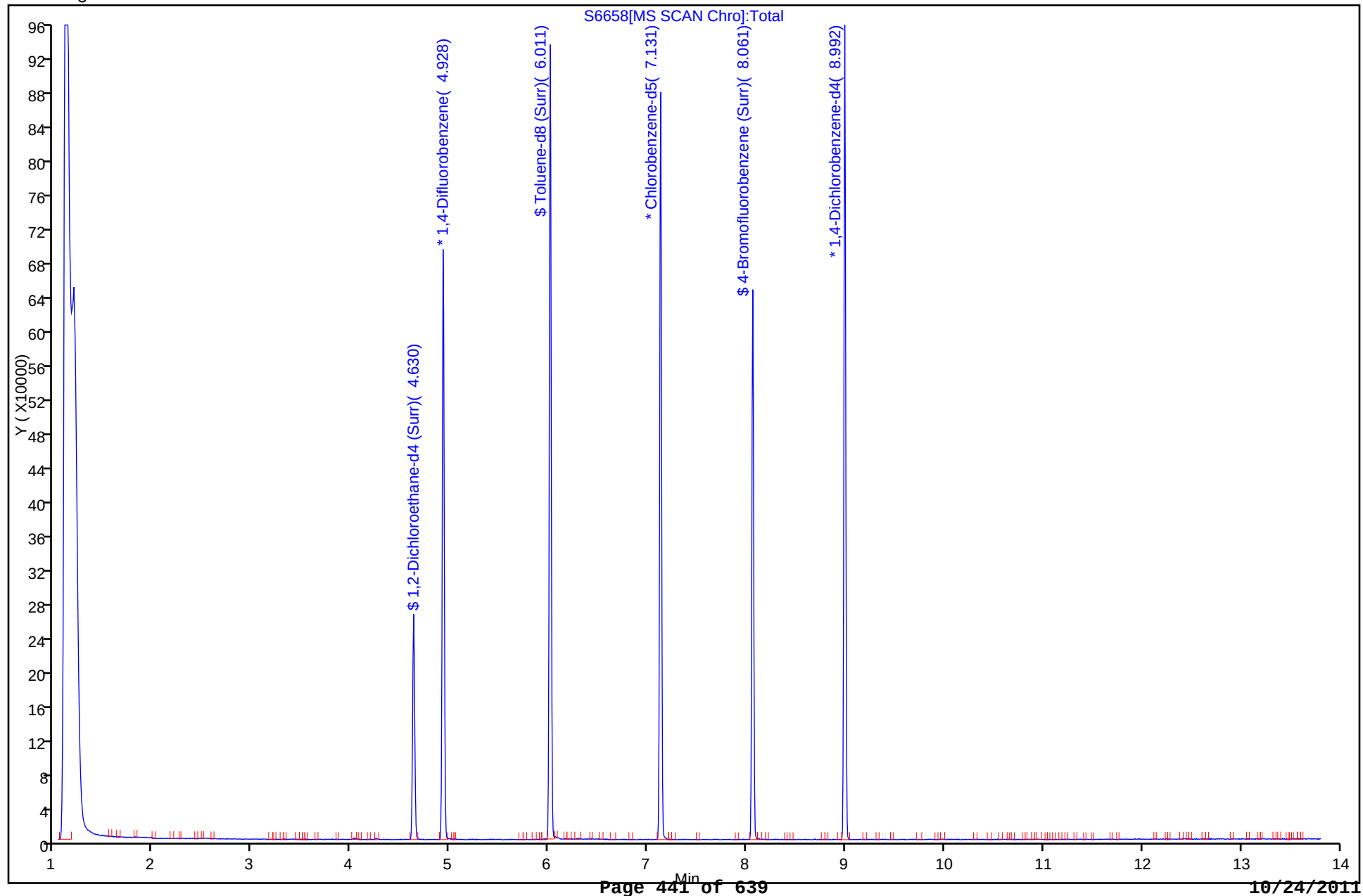
Lims Sample ID: 5

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-34409/5

Matrix: Water Lab File ID: S6686.D

Analysis Method: 8260B Date Collected: _____

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 12:16

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
591-78-6	2-Hexanone	ND		5.0	1.2
78-93-3	2-Butanone (MEK)	ND		10	1.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-64-1	Acetone	ND		10	3.0
71-43-2	Benzene	ND		1.0	0.41
75-27-4	Bromodichloromethane	ND		1.0	0.39
75-25-2	Bromoform	ND		1.0	0.26
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
56-23-5	Carbon tetrachloride	ND		1.0	0.27
108-90-7	Chlorobenzene	ND		1.0	0.75
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.34
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
110-82-7	Cyclohexane	ND		1.0	0.18
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
100-41-4	Ethylbenzene	ND		1.0	0.74
98-82-8	Isopropylbenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-34409/5
 Matrix: Water Lab File ID: S6686.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 12:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		1.0	0.50
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		66-137
2037-26-5	Toluene-d8 (Surr)	120		71-126
460-00-4	4-Bromofluorobenzene (Surr)	117		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6686.D
 Lims ID: MB Client ID:
 Inject. Date: 07-Oct-2011 12:16:30 Dil. Factor: 1.0000
 Sample Type: MB
 Sample ID: MB
 Misc. Info.: 480-0006515-005 =480-0006515-005
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 5
 Lims Batch ID: 34409 Lims Sample ID: 5
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:34:04 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 12:34:04

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	425416	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	195803	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	203638	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.631	-0.001	96	73749	31.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	462023	30.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	88	142730	29.2	
10 Dichlorodifluoromethane	85		1.260					
11 Chlorodifluoromethane	51		1.297					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62		1.509					
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.868					
17 Trichlorofluoromethane	101		2.093					
16 Dichlorofluoromethane	67		2.094					
18 Ethyl ether	59		2.319					
19 Propene oxide	58		2.404					
20 Acrolein	56		2.489					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96		2.550					
23 Acetone	43		2.641					
25 Iodomethane	142		2.708					
26 Carbon disulfide	76		2.726					
24 Isopropyl alcohol	45		2.812					
28 3-Chloro-1-propene	41		2.848					
27 Methyl acetate	43		2.896					
29 Acetonitrile	40		2.927					
30 Methylene Chloride	84		3.030					
31 2-Methyl-2-propanol	59		3.140					
32 Methyl tert-butyl ether	73		3.164					
34 trans-1,2-Dichloroethene	96		3.170					
33 Acrylonitrile	53		3.237					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
35 Hexane	57		3.341					
39 1,1-Dichloroethane	63		3.535					
36 Isopropyl ether	45		3.548					
37 Vinyl acetate	43		3.584					
40 2-Chloro-1,3-butadiene	53		3.584					
38 1,1-Dimethoxyethane	75		3.615					
41 Tert-butyl ethyl ether	59		3.834					
44 2,2-Dichloropropane	77		3.967					
45 cis-1,2-Dichloroethene	96		3.992					
43 2-Butanone (MEK)	43		4.040					
42 Ethyl acetate	43		4.065					
46 Propionitrile	54		4.132					
48 Chlorobromomethane	128		4.186					
49 Tetrahydrofuran	42		4.211					
47 Methacrylonitrile	41		4.217					
50 Chloroform	83		4.247					
52 Cyclohexane	56		4.338					
51 1,1,1-Trichloroethane	97		4.344					
55 Carbon tetrachloride	117		4.448					
54 1,1-Dichloropropene	75		4.460					
57 Benzene	78		4.630					
53 Isobutyl alcohol	43		4.643					
58 1,2-Dichloroethane	62		4.685					
56 Tert-amyl methyl ether	73		4.691					
59 n-Heptane	43		4.764					
62 Trichloroethene	95		5.105					
60 n-Butanol	56		5.129					
64 Methylcyclohexane	83		5.196					
65 1,2-Dichloropropane	63		5.299					
63 Methyl methacrylate	41		5.373					
67 Dibromomethane	93		5.403					
66 1,4-Dioxane	88		5.415					
68 Dichlorobromomethane	83		5.518					
70 2-Nitropropane	43		5.732					
69 2-Chloroethyl vinyl ether	63		5.738					
71 Epichlorohydrin	57		5.811					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92		6.060					
76 2-Methylthiophene	97		6.164					
77 trans-1,3-Dichloropropene	75		6.273					
78 3-Methylthiophene	97		6.291					
75 Ethyl methacrylate	69		6.303					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166		6.455					
82 1,3-Dichloropropane	76		6.541					
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
85 3-Chlorobenzotrifluoride	180		7.119					
87 Chlorobenzene	112		7.149					
86 4-Chlorobenzotrifluoride	180		7.161					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
88 Ethylbenzene	91		7.216					
89 1,1,1,2-Tetrachloroethane	131		7.222					
90 m-Xylene & p-Xylene	106		7.307					
91 o-Xylene	106		7.623					
92 Styrene	104		7.648					
95 Bromoform	173		7.836					
93 2-Chlorobenzotrifluoride	180		7.849					
94 Isopropylbenzene	105		7.909					
96 Cyclohexanone	55		8.056					
101 Bromobenzene	156		8.183					
97 1,1,2,2-Tetrachloroethane	83		8.214					
99 N-Propylbenzene	91		8.238					
100 1,2,3-Trichloropropane	110		8.250					
98 trans-1,4-Dichloro-2-butene	53		8.256					
103 2-Chlorotoluene	126		8.323					
102 1,3,5-Trimethylbenzene	105		8.378					
104 3-Chlorotoluene	126		8.378					
105 4-Chlorotoluene	126		8.414					
106 tert-Butylbenzene	134		8.645					
107 1,2,4-Trimethylbenzene	105		8.688					
108 Pentachloroethane	167		8.694					
109 sec-Butylbenzene	105		8.822					
111 1,3-Dichlorobenzene	146		8.937					
110 4-Isopropyltoluene	119		8.937					
114 Dicyclopentadiene	66		8.992					
113 1,4-Dichlorobenzene	146		9.010					
112 1,2,3-Trimethylbenzene	105		9.041					
115 n-Butylbenzene	91		9.278					
116 1,2-Dichlorobenzene	146		9.327					
117 1,2-Dibromo-3-Chloropropane	75		9.996					
118 1,3,5-Trichlorobenzene	180		10.118					
119 1,2,4-Trichlorobenzene	180		10.647					
120 Hexachlorobutadiene	225		10.750					
121 Naphthalene	128		10.860					
122 1,2,3-Trichlorobenzene	180		11.048					
S 123 Total BTEX	1		30.000					7
S 124 Xylenes, Total	1		30.000					7
S 125 1,2-Dichloroethene, Total	1		30.000					7
S 126 1,3-Dichloropropene, Total	1		30.000					7
T 127 Ethanol TIC	45		0.000					1
T 128 Hexachloroethane TIC	1		0.000					1
T 9 bis(2-chloromethyl)ether TIC	1		0.000					1
T 8 t-Amyl alcohol	59		0.000					1
T 7 Ethylene oxide	1		0.000					1

QC Flag Legend

Processing Flags

1 - Missing Peaks

7 - Failed Limit of Detection

Report Date: 07-Oct-2011 12:34:04

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6686.D

Injection Date: 07-Oct-2011 12:16:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

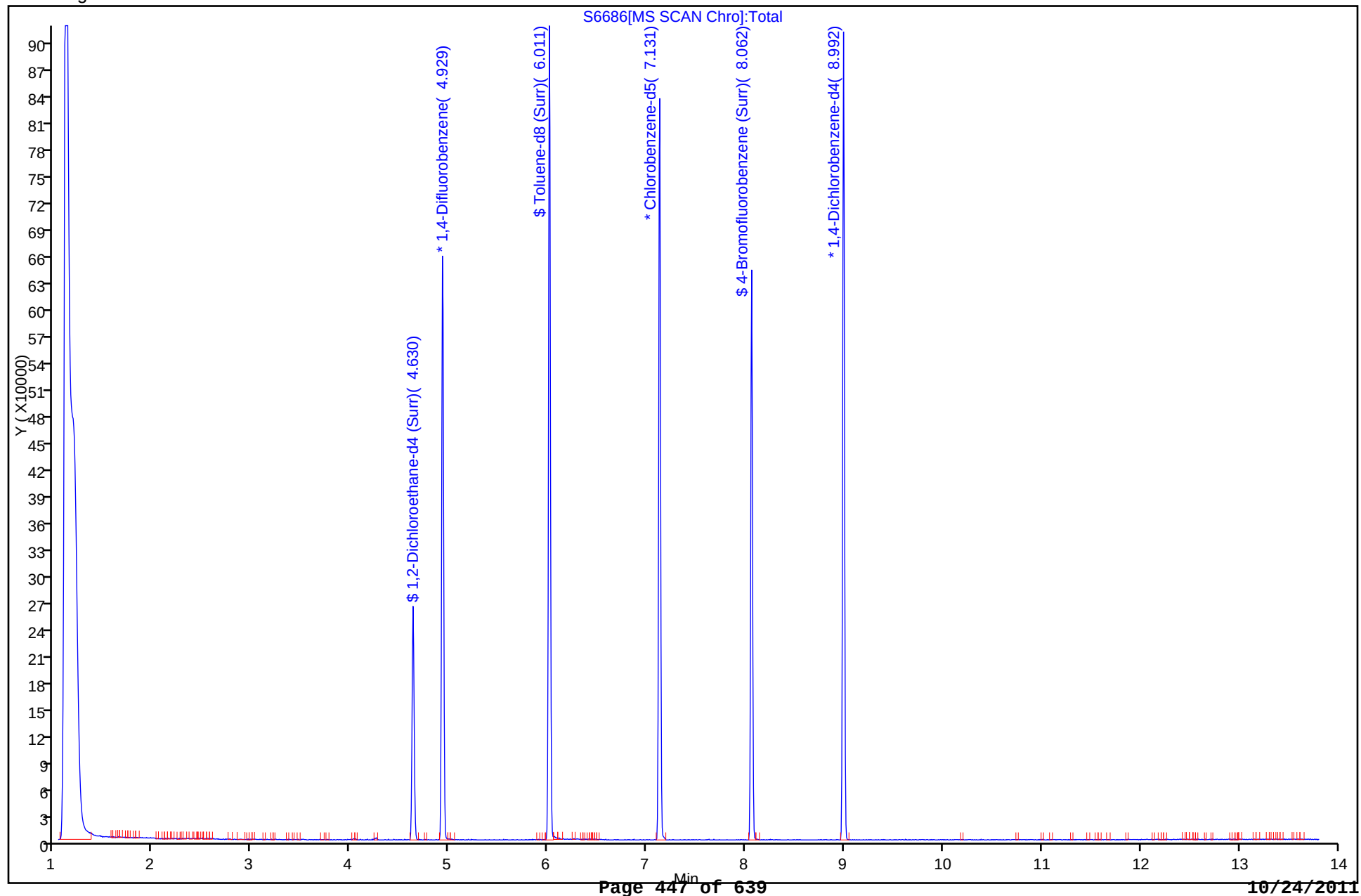
Lims Sample ID: 5

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-34016/4
 Matrix: Water Lab File ID: S6630.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/05/2011 10:30
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34016 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	24.8		1.0	0.38
75-35-4	1,1-Dichloroethene	22.6		1.0	0.29
95-50-1	1,2-Dichlorobenzene	24.4		1.0	0.79
107-06-2	1,2-Dichloroethane	24.7		1.0	0.21
71-43-2	Benzene	24.2		1.0	0.41
108-90-7	Chlorobenzene	24.8		1.0	0.75
156-59-2	cis-1,2-Dichloroethene	23.9		1.0	0.81
100-41-4	Ethylbenzene	25.0		1.0	0.74
1634-04-4	Methyl tert-butyl ether	23.6		1.0	0.16
127-18-4	Tetrachloroethene	24.1		1.0	0.36
108-88-3	Toluene	24.3		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	24.6		1.0	0.90
79-01-6	Trichloroethene	24.0		1.0	0.46
1330-20-7	Xylenes, Total	75.1		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		66-137
2037-26-5	Toluene-d8 (Surr)	114		71-126
460-00-4	4-Bromofluorobenzene (Surr)	109		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6630.D
 Lims ID: LCS Client ID:
 Inject. Date: 05-Oct-2011 10:30:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: LCS
 Misc. Info.: 480-0006450-004 =480-0006450-004
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 34016 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S-8260.m
 Last Update: 05-Oct-2011 11:10:39 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-19

First Level Reviewer: coderd

Date: 05-Oct-2011 11:10:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	530933	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	244632	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	249605	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	53	84730	28.3	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	549134	28.4	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.061	8.061	0.0	87	166692	27.3	
22 1,1-Dichloroethene	96	2.556	2.550	0.006	89	121461	22.6	
32 Methyl tert-butyl ether	73	3.170	3.170	0.0	90	404371	23.6	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	64	141909	24.6	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	247241	24.8	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	152403	23.9	
57 Benzene	78	4.630	4.631	-0.001	96	589559	24.2	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	176847	24.7	
62 Trichloroethene	95	5.105	5.105	0.0	92	139958	24.0	
74 Toluene	92	6.060	6.060	0.0	89	376445	24.3	
81 Tetrachloroethene	166	6.455	6.456	-0.001	92	147146	24.1	
87 Chlorobenzene	112	7.149	7.149	0.0	93	419618	24.8	
88 Ethylbenzene	91	7.216	7.216	0.0	98	700146	25.0	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	98	557540	50.3	
91 o-Xylene	106	7.623	7.624	-0.001	96	267682	24.8	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	97	593214	24.6	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	98	327830	24.4	
S 124 Xylenes, Total	1				0		75.1	
S 125 1,2-Dichloroethene, Total	1				0		48.5	

Report Date: 05-Oct-2011 11:10:42

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111005-6450.b\S6630.D

Injection Date: 05-Oct-2011 10:30:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34016

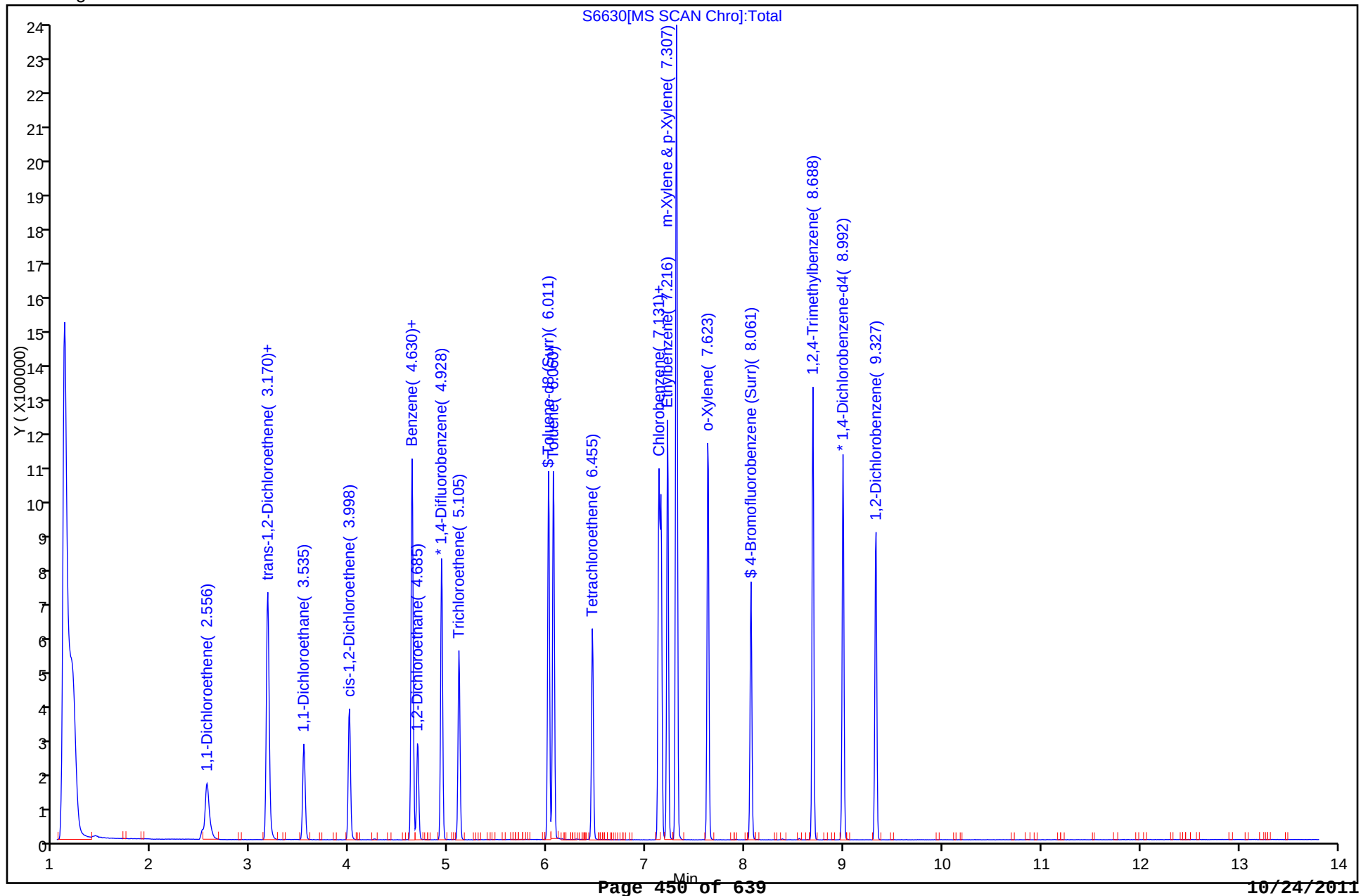
Lims Sample ID: 4

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-34202/4
 Matrix: Water Lab File ID: S6657.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/06/2011 11:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34202 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	25.2		1.0	0.38
75-35-4	1,1-Dichloroethene	23.3		1.0	0.29
95-50-1	1,2-Dichlorobenzene	25.6		1.0	0.79
107-06-2	1,2-Dichloroethane	26.8		1.0	0.21
71-43-2	Benzene	24.6		1.0	0.41
108-90-7	Chlorobenzene	26.1		1.0	0.75
156-59-2	cis-1,2-Dichloroethene	24.5		1.0	0.81
100-41-4	Ethylbenzene	26.2		1.0	0.74
1634-04-4	Methyl tert-butyl ether	23.6		1.0	0.16
127-18-4	Tetrachloroethene	26.4		1.0	0.36
108-88-3	Toluene	25.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.4		1.0	0.90
79-01-6	Trichloroethene	25.3		1.0	0.46
1330-20-7	Xylenes, Total	79.5		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6657.D
 Lims ID: LCS Client ID:
 Inject. Date: 06-Oct-2011 11:53:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: LCS
 Misc. Info.: 480-0006479-004 =480-0006479-004
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 34202 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111006-6479.b\S-8260.m
 Last Update: 06-Oct-2011 13:35:42 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 06-Oct-2011 13:35:42

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.928	0.0	94	458233	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	82	208777	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	221416	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.630	0.0	53	75065	29.1	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	478799	29.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.061	0.001	89	148335	28.5	
22 1,1-Dichloroethene	96	2.556	2.550	0.006	88	107818	23.3	
32 Methyl tert-butyl ether	73	3.164	3.170	-0.006	91	349565	23.6	
34 trans-1,2-Dichloroethene	96	3.170	3.170	0.0	70	126763	25.4	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	217053	25.2	
45 cis-1,2-Dichloroethene	96	3.998	3.998	0.0	66	134380	24.5	
57 Benzene	78	4.630	4.630	0.0	96	516590	24.6	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	76	165460	26.8	
62 Trichloroethene	95	5.105	5.105	0.0	93	127416	25.3	
74 Toluene	92	6.060	6.060	0.0	90	336657	25.5	
81 Tetrachloroethene	166	6.455	6.456	-0.001	93	137663	26.4	
87 Chlorobenzene	112	7.149	7.149	0.0	93	378221	26.1	
88 Ethylbenzene	91	7.216	7.216	0.0	98	627119	26.2	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	503132	53.2	
91 o-Xylene	106	7.624	7.624	0.0	96	242425	26.3	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	97	533720	24.9	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	97	304949	25.6	
S 125 1,2-Dichloroethene, Total	1				0		49.9	
S 124 Xylenes, Total	1				0		79.5	

Report Date: 06-Oct-2011 13:35:42

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File:

\\Bufchrom\ChromData\HP5973S\20111006-6479.b\S6657.D

Injection Date: 06-Oct-2011 11:53:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34202

Lims Sample ID: 4

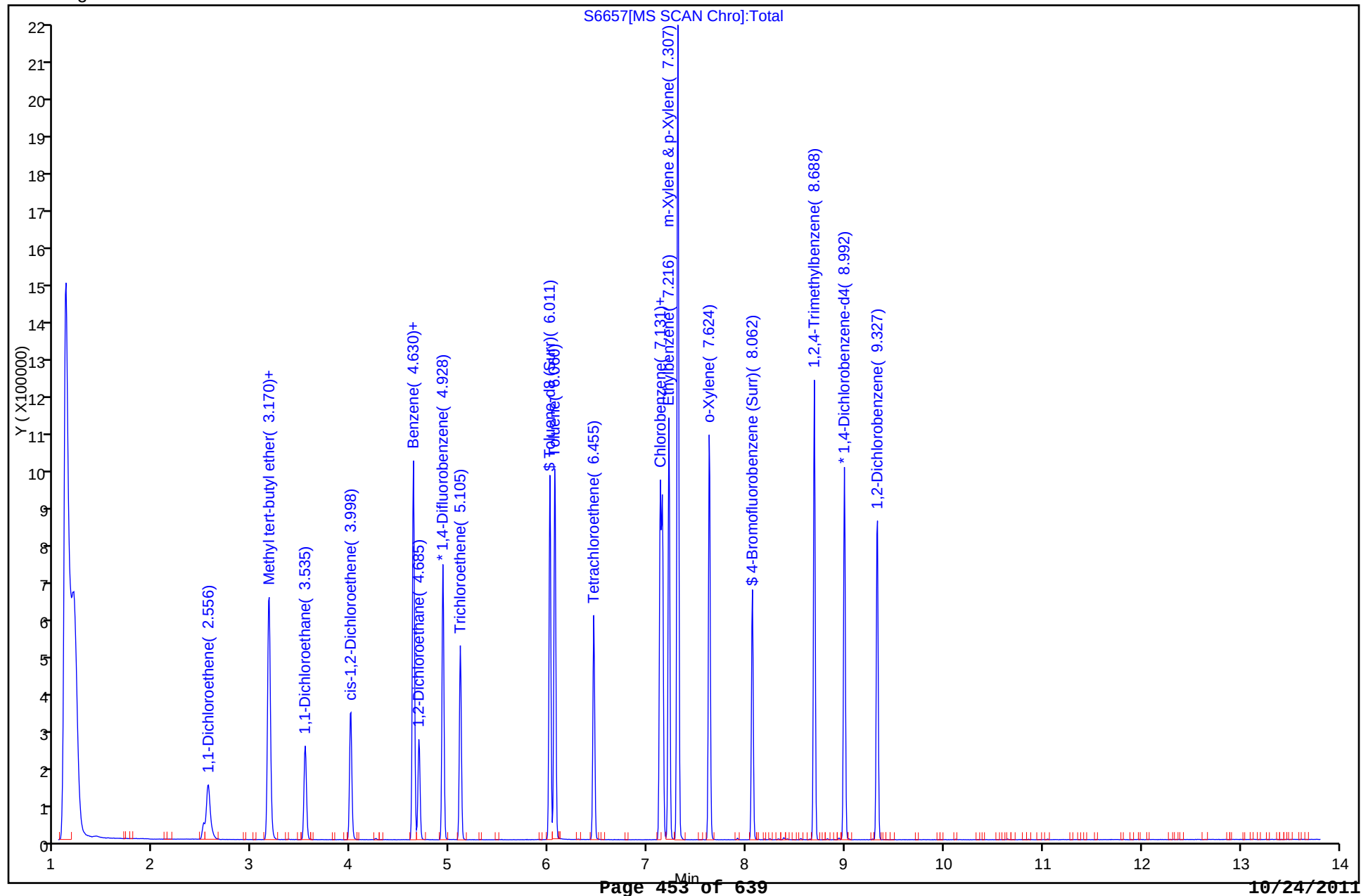
Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:

S6657[MS SCAN Chro]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-34409/4
 Matrix: Water Lab File ID: S6685.D
 Analysis Method: 8260B Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 11:54
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-34-3	1,1-Dichloroethane	25.1		1.0	0.38
75-35-4	1,1-Dichloroethene	22.6		1.0	0.29
95-50-1	1,2-Dichlorobenzene	25.3		1.0	0.79
107-06-2	1,2-Dichloroethane	27.3		1.0	0.21
71-43-2	Benzene	24.2		1.0	0.41
108-90-7	Chlorobenzene	25.7		1.0	0.75
156-59-2	cis-1,2-Dichloroethene	24.5		1.0	0.81
100-41-4	Ethylbenzene	26.1		1.0	0.74
1634-04-4	Methyl tert-butyl ether	23.6		1.0	0.16
127-18-4	Tetrachloroethene	26.1		1.0	0.36
108-88-3	Toluene	24.8		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.8		1.0	0.90
79-01-6	Trichloroethene	25.0		1.0	0.46
1330-20-7	Xylenes, Total	78.8		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	118		71-126
460-00-4	4-Bromofluorobenzene (Surr)	117		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6685.D
 Lims ID: LCS Client ID:
 Inject. Date: 07-Oct-2011 11:54:30 Dil. Factor: 1.0000
 Sample Type: LCS
 Sample ID: LCS
 Misc. Info.: 480-0006515-004 =480-0006515-004
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 4
 Lims Batch ID: 34409 Lims Sample ID: 4
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:33:39 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 07-Oct-2011 12:33:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	436056	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	200006	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	211153	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	-0.001	55	73552	30.0	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	465944	29.5	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	87	146366	29.3	
22 1,1-Dichloroethene	96	2.556	2.550	0.006	88	99687	22.6	
32 Methyl tert-butyl ether	73	3.170	3.164	0.006	90	332992	23.6	
34 trans-1,2-Dichloroethene	96	3.177	3.170	0.007	73	122289	25.8	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	205339	25.1	
45 cis-1,2-Dichloroethene	96	3.998	3.992	0.006	66	127973	24.5	
57 Benzene	78	4.631	4.630	0.0	96	483573	24.2	
58 1,2-Dichloroethane	62	4.691	4.685	0.006	74	160461	27.3	
62 Trichloroethene	95	5.105	5.105	0.0	92	119655	25.0	
74 Toluene	92	6.060	6.060	0.0	90	314218	24.8	
81 Tetrachloroethene	166	6.456	6.455	0.001	92	130398	26.1	
87 Chlorobenzene	112	7.149	7.149	0.0	93	355895	25.7	
88 Ethylbenzene	91	7.216	7.216	0.0	98	596616	26.1	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	476600	52.6	
91 o-Xylene	106	7.624	7.623	0.001	97	231034	26.2	
107 1,2,4-Trimethylbenzene	105	8.688	8.688	0.0	97	503331	24.7	
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	98	287812	25.3	
S 124 Xylenes, Total	1				0		78.7	
S 125 1,2-Dichloroethene, Total	1				0		50.2	

Report Date: 07-Oct-2011 12:33:40

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6685.D

Injection Date: 07-Oct-2011 11:54:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

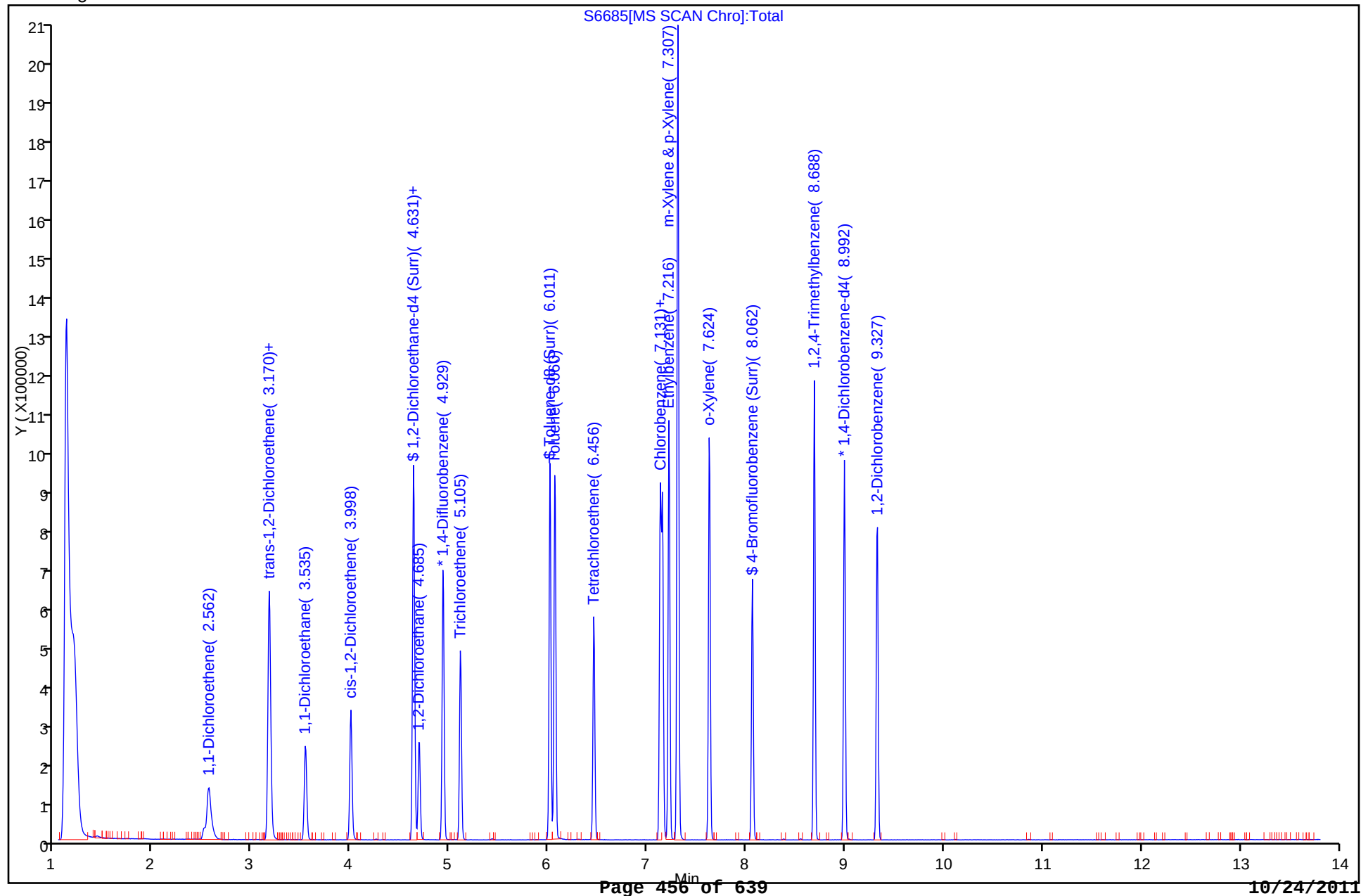
Lims Sample ID: 4

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ1 MS Lab Sample ID: 480-10504-2 MS

Matrix: Water Lab File ID: S6707.D

Analysis Method: 8260B Date Collected: 09/26/2011 15:40

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 20:12

Soil Aliquot Vol: _____ Dilution Factor: 500

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	410
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	110
79-00-5	1,1,2-Trichloroethane	ND		500	120
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	160
75-34-3	1,1-Dichloroethane	14100		500	190
75-35-4	1,1-Dichloroethene	10300		500	150
120-82-1	1,2,4-Trichlorobenzene	ND		500	210
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	200
106-93-4	1,2-Dibromoethane	ND		500	370
95-50-1	1,2-Dichlorobenzene	12800		500	400
107-06-2	1,2-Dichloroethane	13700		500	110
78-87-5	1,2-Dichloropropane	ND		500	360
541-73-1	1,3-Dichlorobenzene	ND		500	390
106-46-7	1,4-Dichlorobenzene	ND		500	420
591-78-6	2-Hexanone	ND		2500	620
78-93-3	2-Butanone (MEK)	ND		5000	660
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	1100
67-64-1	Acetone	ND		5000	1500
71-43-2	Benzene	12100		500	210
75-27-4	Bromodichloromethane	ND		500	200
75-25-2	Bromoform	ND		500	130
74-83-9	Bromomethane	ND		500	350
75-15-0	Carbon disulfide	ND		500	95
56-23-5	Carbon tetrachloride	ND		500	140
108-90-7	Chlorobenzene	13200		500	380
124-48-1	Dibromochloromethane	ND		500	160
75-00-3	Chloroethane	ND		500	160
67-66-3	Chloroform	ND		500	170
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	36400		500	410
10061-01-5	cis-1,3-Dichloropropene	ND		500	180
110-82-7	Cyclohexane	ND		500	90
75-71-8	Dichlorodifluoromethane	ND		500	340
100-41-4	Ethylbenzene	13200		500	370
98-82-8	Isopropylbenzene	ND		500	400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ1 MS Lab Sample ID: 480-10504-2 MS
 Matrix: Water Lab File ID: S6707.D
 Analysis Method: 8260B Date Collected: 09/26/2011 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 20:12
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	250
1634-04-4	Methyl tert-butyl ether	11200		500	80
108-87-2	Methylcyclohexane	ND		500	80
75-09-2	Methylene Chloride	473	J	500	220
100-42-5	Styrene	ND		500	370
127-18-4	Tetrachloroethene	13300		500	180
108-88-3	Toluene	12800		500	260
156-60-5	trans-1,2-Dichloroethene	12500		500	450
10061-02-6	trans-1,3-Dichloropropene	ND		500	190
79-01-6	Trichloroethene	14400		500	230
75-69-4	Trichlorofluoromethane	ND		500	440
75-01-4	Vinyl chloride	625		500	450
1330-20-7	Xylenes, Total	40300		1000	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		66-137
2037-26-5	Toluene-d8 (Surr)	117		71-126
460-00-4	4-Bromofluorobenzene (Surr)	117		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6707.D
 Lims ID: 480-10504-F-2 MS Client ID:
 Inject. Date: 07-Oct-2011 20:12:30 Dil. Factor: 500.0000
 Sample Type: MS
 Sample ID: 480-10504-F-2 MS
 Misc. Info.: 480-0006515-026 =480-0006515-026
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 26
 Lims Batch ID: 34409 Lims Sample ID: 26
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:34:04 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 08-Oct-2011 07:10:23

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.928	4.929	-0.001	94	416478	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	186862	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	200645	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.630	4.631	-0.001	55	70671	30.2	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	93	432606	29.3	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	88	136036	29.2	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.503	1.509	-0.006	21	5609	1.25	
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.868					
17 Trichlorofluoromethane	101		2.093					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96	2.556	2.550	0.006	87	86835	20.6	
23 Acetone	43		2.641					
26 Carbon disulfide	76		2.726					
27 Methyl acetate	43		2.896					
30 Methylene Chloride	84	3.030	3.030	0.0	48	4752	0.9467	
32 Methyl tert-butyl ether	73	3.170	3.164	0.006	91	300411	22.3	
34 trans-1,2-Dichloroethene	96	3.176	3.170	0.006	71	113246	25.0	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	219732	28.1	
45 cis-1,2-Dichloroethene	96	3.998	3.992	0.006	67	363579	72.8	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.247					
52 Cyclohexane	56		4.338					
51 1,1,1-Trichloroethane	97		4.344					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78	4.630	4.630	0.0	96	462118	24.2	
58 1,2-Dichloroethane	62	4.691	4.685	0.006	74	153614	27.3	
62 Trichloroethene	95	5.105	5.105	0.0	92	131553	28.7	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.299					
68 Dichlorobromomethane	83		5.518					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92	6.060	6.060	0.0	95	302617	25.6	
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.455	6.455	0.0	91	123820	26.5	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112	7.149	7.149	0.0	93	341844	26.4	
88 Ethylbenzene	91	7.216	7.216	0.0	98	565783	26.4	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	457598	54.0	
91 o-Xylene	106	7.624	7.623	0.001	96	218545	26.5	
92 Styrene	104		7.648					
95 Bromoform	173		7.836					
94 Isopropylbenzene	105		7.909					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.937					
113 1,4-Dichlorobenzene	146		9.010					
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	97	276345	25.6	
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1				0		80.5	

Report Date: 08-Oct-2011 07:10:23

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6707.D

Injection Date: 07-Oct-2011 20:12:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

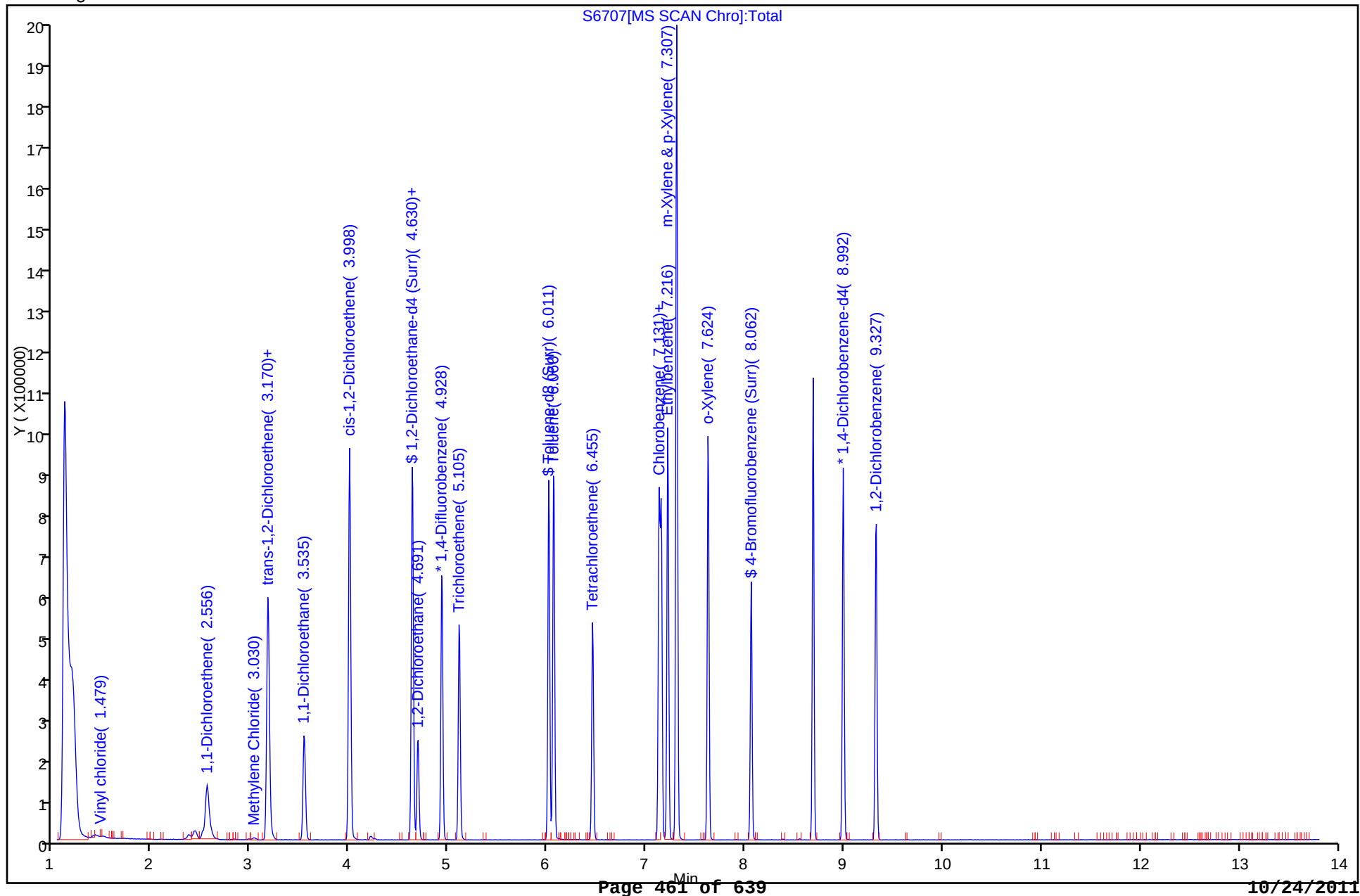
Lims Sample ID: 26

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Client Sample ID: A2-PZ1 MSD Lab Sample ID: 480-10504-2 MSD

Matrix: Water Lab File ID: S6708.D

Analysis Method: 8260B Date Collected: 09/26/2011 15:40

Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 20:35

Soil Aliquot Vol: _____ Dilution Factor: 500

Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		500	410
79-34-5	1,1,2,2-Tetrachloroethane	ND		500	110
79-00-5	1,1,2-Trichloroethane	ND		500	120
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		500	160
75-34-3	1,1-Dichloroethane	14500		500	190
75-35-4	1,1-Dichloroethene	11300		500	150
120-82-1	1,2,4-Trichlorobenzene	ND		500	210
96-12-8	1,2-Dibromo-3-Chloropropane	ND		500	200
106-93-4	1,2-Dibromoethane	ND		500	370
95-50-1	1,2-Dichlorobenzene	13000		500	400
107-06-2	1,2-Dichloroethane	14000		500	110
78-87-5	1,2-Dichloropropane	ND		500	360
541-73-1	1,3-Dichlorobenzene	ND		500	390
106-46-7	1,4-Dichlorobenzene	ND		500	420
591-78-6	2-Hexanone	ND		2500	620
78-93-3	2-Butanone (MEK)	ND		5000	660
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		2500	1100
67-64-1	Acetone	ND		5000	1500
71-43-2	Benzene	12300		500	210
75-27-4	Bromodichloromethane	ND		500	200
75-25-2	Bromoform	ND		500	130
74-83-9	Bromomethane	ND		500	350
75-15-0	Carbon disulfide	ND		500	95
56-23-5	Carbon tetrachloride	ND		500	140
108-90-7	Chlorobenzene	13400		500	380
124-48-1	Dibromochloromethane	ND		500	160
75-00-3	Chloroethane	ND		500	160
67-66-3	Chloroform	ND		500	170
74-87-3	Chloromethane	ND		500	180
156-59-2	cis-1,2-Dichloroethene	37000		500	410
10061-01-5	cis-1,3-Dichloropropene	ND		500	180
110-82-7	Cyclohexane	ND		500	90
75-71-8	Dichlorodifluoromethane	ND		500	340
100-41-4	Ethylbenzene	13400		500	370
98-82-8	Isopropylbenzene	ND		500	400

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Client Sample ID: A2-PZ1 MSD Lab Sample ID: 480-10504-2 MSD
 Matrix: Water Lab File ID: S6708.D
 Analysis Method: 8260B Date Collected: 09/26/2011 15:40
 Sample wt/vol: 5(mL) Date Analyzed: 10/07/2011 20:35
 Soil Aliquot Vol: _____ Dilution Factor: 500
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 34409 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		500	250
1634-04-4	Methyl tert-butyl ether	11300		500	80
108-87-2	Methylcyclohexane	ND		500	80
75-09-2	Methylene Chloride	396	J	500	220
100-42-5	Styrene	ND		500	370
127-18-4	Tetrachloroethene	13600		500	180
108-88-3	Toluene	13000		500	260
156-60-5	trans-1,2-Dichloroethene	12900		500	450
10061-02-6	trans-1,3-Dichloropropene	ND		500	190
79-01-6	Trichloroethene	14700		500	230
75-69-4	Trichlorofluoromethane	ND		500	440
75-01-4	Vinyl chloride	595		500	450
1330-20-7	Xylenes, Total	40500		1000	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	120		66-137
2037-26-5	Toluene-d8 (Surr)	116		71-126
460-00-4	4-Bromofluorobenzene (Surr)	114		73-120

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6708.D
 Lims ID: 480-10504-F-2 MSD Client ID:
 Inject. Date: 07-Oct-2011 20:35:30 Dil. Factor: 500.0000
 Sample Type: MSD
 Sample ID: 480-10504-F-2 MSD
 Misc. Info.: 480-0006515-027 =480-0006515-027
 Operator: DHC Instrument ID: HP5973S
 Vol. Injected: 1.0000 ALS Bottle#: 27
 Lims Batch ID: 34409 Lims Sample ID: 27
 Detector: MS SCAN
 Method: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S-8260.m
 Last Update: 07-Oct-2011 12:34:04 Calib Date: 20-Sep-2011 19:03:30
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5973S\20110920-6101.b\S6133.D
 Limit Group: MV - 8260B ICAL
 Integrator: RTE ID Type: RT Order ID
 Process Host: CORP-CTX-16

First Level Reviewer: coderd

Date: 08-Oct-2011 07:10:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
* 1 1,4-Difluorobenzene	114	4.929	4.929	0.0	94	420835	25.0	
* 2 Chlorobenzene-d5	82	7.131	7.131	0.0	83	190809	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.992	8.992	0.0	94	201371	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	67	4.631	4.631	-0.001	54	70567	29.9	
\$ 5 Toluene-d8 (Surr)	98	6.011	6.011	0.0	92	437143	29.0	
\$ 6 4-Bromofluorobenzene (Surr)	174	8.062	8.062	0.0	89	135614	28.5	
10 Dichlorodifluoromethane	85		1.260					
12 Chloromethane	50		1.400					
13 Vinyl chloride	62	1.504	1.509	-0.005	21	5404	1.19	
14 Bromomethane	94		1.771					
15 Chloroethane	64		1.868					
17 Trichlorofluoromethane	101		2.093					
21 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.550					
22 1,1-Dichloroethene	96	2.556	2.550	0.006	88	95837	22.5	
23 Acetone	43		2.641					
26 Carbon disulfide	76		2.726					
27 Methyl acetate	43		2.896					
30 Methylene Chloride	84	3.024	3.030	-0.006	32	4015	0.7916	
32 Methyl tert-butyl ether	73	3.164	3.164	0.0	91	306019	22.5	
34 trans-1,2-Dichloroethene	96	3.177	3.170	0.007	75	117647	25.7	
39 1,1-Dichloroethane	63	3.535	3.535	0.0	85	228430	28.9	
45 cis-1,2-Dichloroethene	96	3.998	3.992	0.006	67	373050	73.9	
43 2-Butanone (MEK)	43		4.040					
50 Chloroform	83		4.247					
52 Cyclohexane	56		4.338					
51 1,1,1-Trichloroethane	97		4.344					
55 Carbon tetrachloride	117		4.448					
57 Benzene	78	4.631	4.630	0.0	96	474555	24.6	
58 1,2-Dichloroethane	62	4.685	4.685	0.0	74	158534	27.9	
62 Trichloroethene	95	5.105	5.105	0.0	93	136251	29.4	
64 Methylcyclohexane	83		5.196					

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ug/L	Flags
65 1,2-Dichloropropane	63		5.299					
68 Dichlorobromomethane	83		5.518					
72 cis-1,3-Dichloropropene	75		5.841					
73 4-Methyl-2-pentanone (MIBK)	43		5.957					
74 Toluene	92	6.060	6.060	0.0	95	313813	26.0	
77 trans-1,3-Dichloropropene	75		6.273					
79 1,1,2-Trichloroethane	83		6.419					
81 Tetrachloroethene	166	6.456	6.455	0.001	92	129295	27.1	
80 2-Hexanone	43		6.589					
83 Chlorodibromomethane	129		6.717					
84 Ethylene Dibromide	107		6.802					
87 Chlorobenzene	112	7.149	7.149	0.0	93	354446	26.8	
88 Ethylbenzene	91	7.216	7.216	0.0	98	582249	26.7	
90 m-Xylene & p-Xylene	106	7.307	7.307	0.0	97	469113	54.2	
91 o-Xylene	106	7.624	7.623	0.001	96	225258	26.7	
92 Styrene	104		7.648					
95 Bromoform	173		7.836					
94 Isopropylbenzene	105		7.909					
97 1,1,2,2-Tetrachloroethane	83		8.214					
111 1,3-Dichlorobenzene	146		8.937					
113 1,4-Dichlorobenzene	146		9.010					
116 1,2-Dichlorobenzene	146	9.327	9.327	0.0	98	281186	25.9	
117 1,2-Dibromo-3-Chloropropane	75		9.996					
119 1,2,4-Trichlorobenzene	180		10.647					
S 124 Xylenes, Total	1				0		81.0	

Report Date: 08-Oct-2011 07:10:39

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5973S\20111007-6515.b\S6708.D

Injection Date: 07-Oct-2011 20:35:30

Limit Group: MV - 8260B ICAL

Client ID:

Instrument ID: HP5973S

Lims Batch ID: 34409

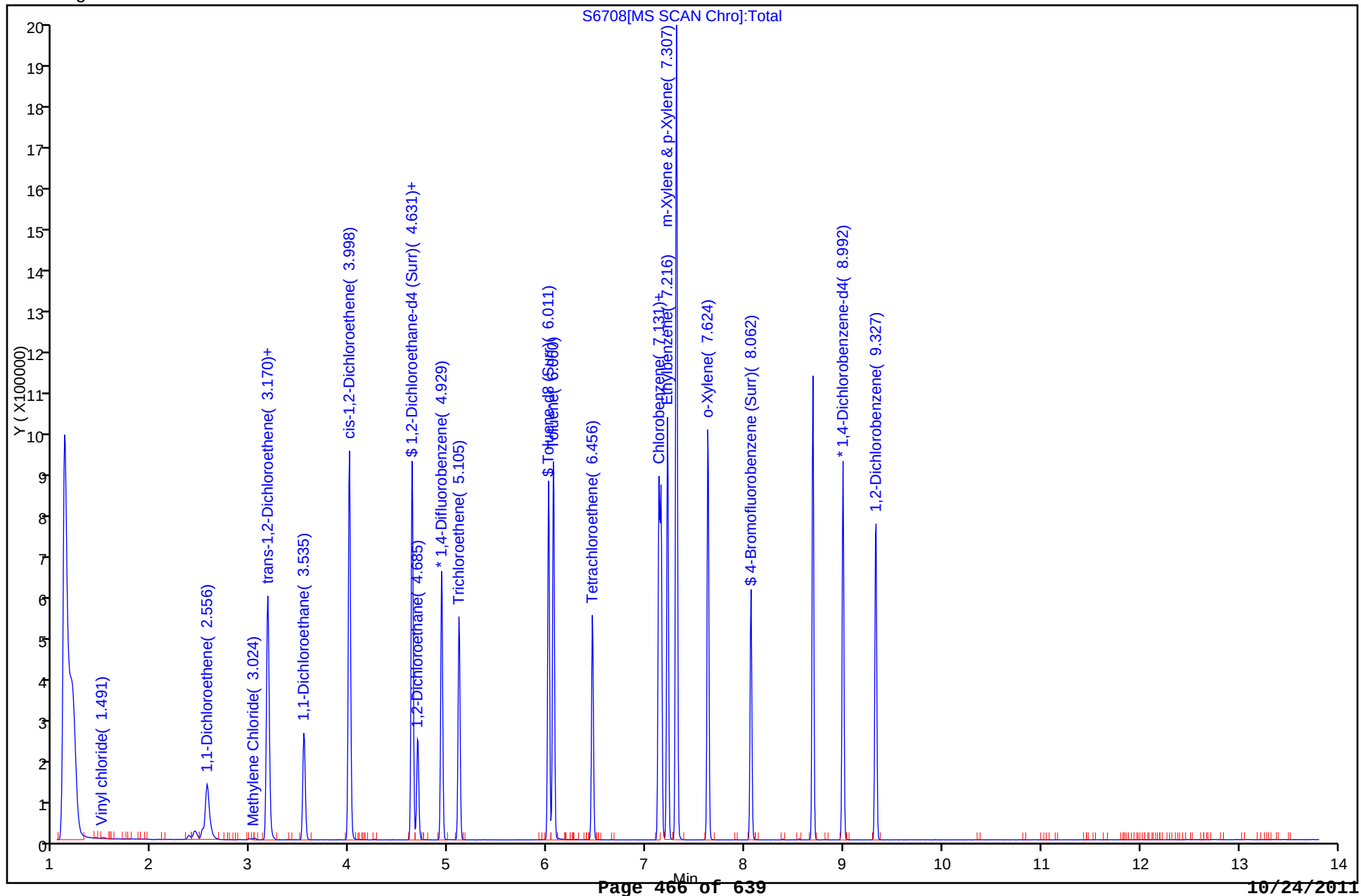
Lims Sample ID: 27

Operator ID: DHC

Column Type: ZB-624

Column Dia: 0.25 mm

Y Scaling:



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5973S Start Date: 09/20/2011 13:54Analysis Batch Number: 32019 End Date: 09/20/2011 20:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-32019/1		09/20/2011 13:54	1	S6119.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/3 IC		09/20/2011 14:39	1	S6121.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/4 IC		09/20/2011 15:00	1	S6122.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/5 IC		09/20/2011 15:23	1	S6123.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/6 ICIS		09/20/2011 15:45	1	S6124.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/7 IC		09/20/2011 16:07	1	S6125.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/8 IC		09/20/2011 16:29	1	S6126.D	ZB-624 (60) 0.25 (mm)
STD 480-32019/10 IC		09/20/2011 17:14	1		ZB-624 (60) 0.25 (mm)
STD 480-32019/11 IC		09/20/2011 17:36	1		ZB-624 (60) 0.25 (mm)
STD 480-32019/12 IC		09/20/2011 17:58	1		ZB-624 (60) 0.25 (mm)
STD 480-32019/13 IC		09/20/2011 18:19	1		ZB-624 (60) 0.25 (mm)
STD 480-32019/14 IC		09/20/2011 18:42	1		ZB-624 (60) 0.25 (mm)
STD 480-32019/15 IC		09/20/2011 19:03	1		ZB-624 (60) 0.25 (mm)
ICV 480-32019/17		09/20/2011 19:48	1		ZB-624 (60) 0.25 (mm)
MDLV 480-32019/18		09/20/2011 20:10	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 10/05/2011 09:06Analysis Batch Number: 34016End Date: 10/05/2011 19:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-34016/1		10/05/2011 09:06	1	S6627.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-34016/2		10/05/2011 09:29	1	S6628.D	ZB-624 (60) 0.25 (mm)
CCV 480-34016/3		10/05/2011 10:04	1		ZB-624 (60) 0.25 (mm)
LCS 480-34016/4		10/05/2011 10:30	1	S6630.D	ZB-624 (60) 0.25 (mm)
MB 480-34016/5		10/05/2011 10:52	1	S6631.D	ZB-624 (60) 0.25 (mm)
480-10504-1	PZ-26	10/05/2011 11:26	1	S6632.D	ZB-624 (60) 0.25 (mm)
480-10504-2	A2-PZ1	10/05/2011 11:48	1	S6633.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/05/2011 12:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/05/2011 12:32	1		ZB-624 (60) 0.25 (mm)
480-10504-5	MW-4	10/05/2011 12:54	1	S6636.D	ZB-624 (60) 0.25 (mm)
480-10504-6	MW-13S	10/05/2011 13:17	1	S6637.D	ZB-624 (60) 0.25 (mm)
480-10504-7	A1-PZ2	10/05/2011 13:39	1	S6638.D	ZB-624 (60) 0.25 (mm)
480-10504-8	PZ-18	10/05/2011 14:01	1	S6639.D	ZB-624 (60) 0.25 (mm)
480-10504-9	PZ-13R	10/05/2011 14:23	1	S6640.D	ZB-624 (60) 0.25 (mm)
480-10504-10	MW-2	10/05/2011 14:46	1	S6641.D	ZB-624 (60) 0.25 (mm)
480-10504-11	MW-5	10/05/2011 15:08	1	S6642.D	ZB-624 (60) 0.25 (mm)
480-10504-12	MW-1	10/05/2011 15:30	1	S6643.D	ZB-624 (60) 0.25 (mm)
480-10504-13	MW-3	10/05/2011 15:52	1	S6644.D	ZB-624 (60) 0.25 (mm)
480-10504-14	PZ-7	10/05/2011 16:14	1	S6645.D	ZB-624 (60) 0.25 (mm)
480-10504-15	PZ-6	10/05/2011 16:36	1	S6646.D	ZB-624 (60) 0.25 (mm)
480-10504-16	PZ-5	10/05/2011 16:58	1	S6647.D	ZB-624 (60) 0.25 (mm)
480-10504-17	PZ-8	10/05/2011 17:21	1	S6648.D	ZB-624 (60) 0.25 (mm)
480-10504-18	MW-14BR	10/05/2011 17:42	1	S6649.D	ZB-624 (60) 0.25 (mm)
480-10504-19	PZ-11R	10/05/2011 18:05	1	S6650.D	ZB-624 (60) 0.25 (mm)
480-10504-20	MW-10	10/05/2011 18:27	1	S6651.D	ZB-624 (60) 0.25 (mm)
480-10504-21	TB-092911	10/05/2011 18:49	1	S6652.D	ZB-624 (60) 0.25 (mm)
480-10504-22	DUP-092811	10/05/2011 19:10	1	S6653.D	ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5973S Start Date: 10/06/2011 09:30Analysis Batch Number: 34202 End Date: 10/06/2011 20:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-34202/1		10/06/2011 09:30	1	S6654.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-34202/2		10/06/2011 09:56	1	S6655.D	ZB-624 (60) 0.25 (mm)
CCV 480-34202/3		10/06/2011 11:31	1		ZB-624 (60) 0.25 (mm)
LCS 480-34202/4		10/06/2011 11:53	1	S6657.D	ZB-624 (60) 0.25 (mm)
MB 480-34202/5		10/06/2011 12:15	1	S6658.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 12:36	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 12:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 13:21	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 13:43	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 14:09	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 14:31	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 14:53	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 15:15	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 15:37	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 15:59	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 16:21	200		ZB-624 (60) 0.25 (mm)
480-10504-3	A2-PZ7	10/06/2011 16:43	1	S6670.D	ZB-624 (60) 0.25 (mm)
480-10504-4	PZ-27	10/06/2011 17:05	1	S6671.D	ZB-624 (60) 0.25 (mm)
480-10504-16 DL	PZ-5 DL	10/06/2011 17:27	2	S6672.D	ZB-624 (60) 0.25 (mm)
480-10504-17 DL	PZ-8 DL	10/06/2011 17:49	5	S6673.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 18:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 18:32	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 18:54	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 19:16	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 19:38	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 20:00	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 20:22	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/06/2011 20:44	1		ZB-624 (60) 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5973SStart Date: 10/07/2011 09:47Analysis Batch Number: 34409End Date: 10/07/2011 20:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-34409/1		10/07/2011 09:47	1	S6682.D	ZB-624 (60) 0.25 (mm)
CCVIS 480-34409/2		10/07/2011 10:57	1	S6683.D	ZB-624 (60) 0.25 (mm)
CCV 480-34409/3		10/07/2011 11:31	1	S6684.D	ZB-624 (60) 0.25 (mm)
LCS 480-34409/4		10/07/2011 11:54	1	S6685.D	ZB-624 (60) 0.25 (mm)
MB 480-34409/5		10/07/2011 12:16	1	S6686.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 12:51	25		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 13:13	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 13:36	10		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 13:57	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 14:20	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 14:42	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 15:04	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 15:26	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 15:48	4		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 16:10	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 16:32	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 16:54	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 17:15	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 17:37	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 18:00	2		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 18:22	1		ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 18:44	1		ZB-624 (60) 0.25 (mm)
480-10504-2 DL	A2-P21 DL	10/07/2011 19:06	500	S6704.D	ZB-624 (60) 0.25 (mm)
480-10504-3 DL	A2-P27 DL	10/07/2011 19:28	8	S6705.D	ZB-624 (60) 0.25 (mm)
ZZZZZ		10/07/2011 19:50	10		ZB-624 (60) 0.25 (mm)
480-10504-2 MS	A2-P21 MS	10/07/2011 20:12	500	S6707.D	ZB-624 (60) 0.25 (mm)
480-10504-2 MSD	A2-P21 MSD	10/07/2011 20:35	500	S6708.D	ZB-624 (60) 0.25 (mm)

Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 21_24271.D
Lab ID: LCS 480-33781/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Methane	7.69	6.99	91	67-140	

Column to be used to flag recovery and RPD values

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 21_24280.D
Lab ID: LCSD 480-33781/15 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Methane	7.69	5.37	70	26	50	67-140	

Column to be used to flag recovery and RPD values

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Lab Sample ID: MB 480-33781/5
 Matrix: Water Date Extracted: _____
 Lab File ID: (1) 21_24270.D Lab File ID: (2) _____
 Date Analyzed: (1) 10/03/2011 19:08 Date Analyzed: (2) _____
 Instrument ID: (1) HP5890-21 Instrument ID: (2) _____
 GC Column: (1) RTX-U Plot ID: 0.32 (mm) GC Column: (2) _____ ID: _____

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-33781/6	10/03/2011 19:22	
A2-PZ1	480-10504-2	10/03/2011 19:49	
A1-PZ2	480-10504-7	10/03/2011 20:03	
PZ-13R	480-10504-9	10/03/2011 20:17	
MW-1	480-10504-12	10/03/2011 20:30	
MW-3	480-10504-13	10/03/2011 20:44	
MW-10	480-10504-20	10/03/2011 20:58	
DUP-092811	480-10504-22	10/03/2011 21:12	
	LCSD 480-33781/15	10/03/2011 21:49	

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: A2-PZ1 Lab Sample ID: 480-10504-2
Matrix: Water Lab File ID: 21_24272.D
Analysis Method: RSK-175 Date Collected: 09/26/2011 15:40
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 19:49
Soil Aliquot Vol: _____ Dilution Factor: 100
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	1200		100	22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24272.D
Lims ID: 480-10504-G-2 Client ID: A2-PZ1
Inject. Date: 03-Oct-2011 19:49:22 Dil. Factor: 100.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 7
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

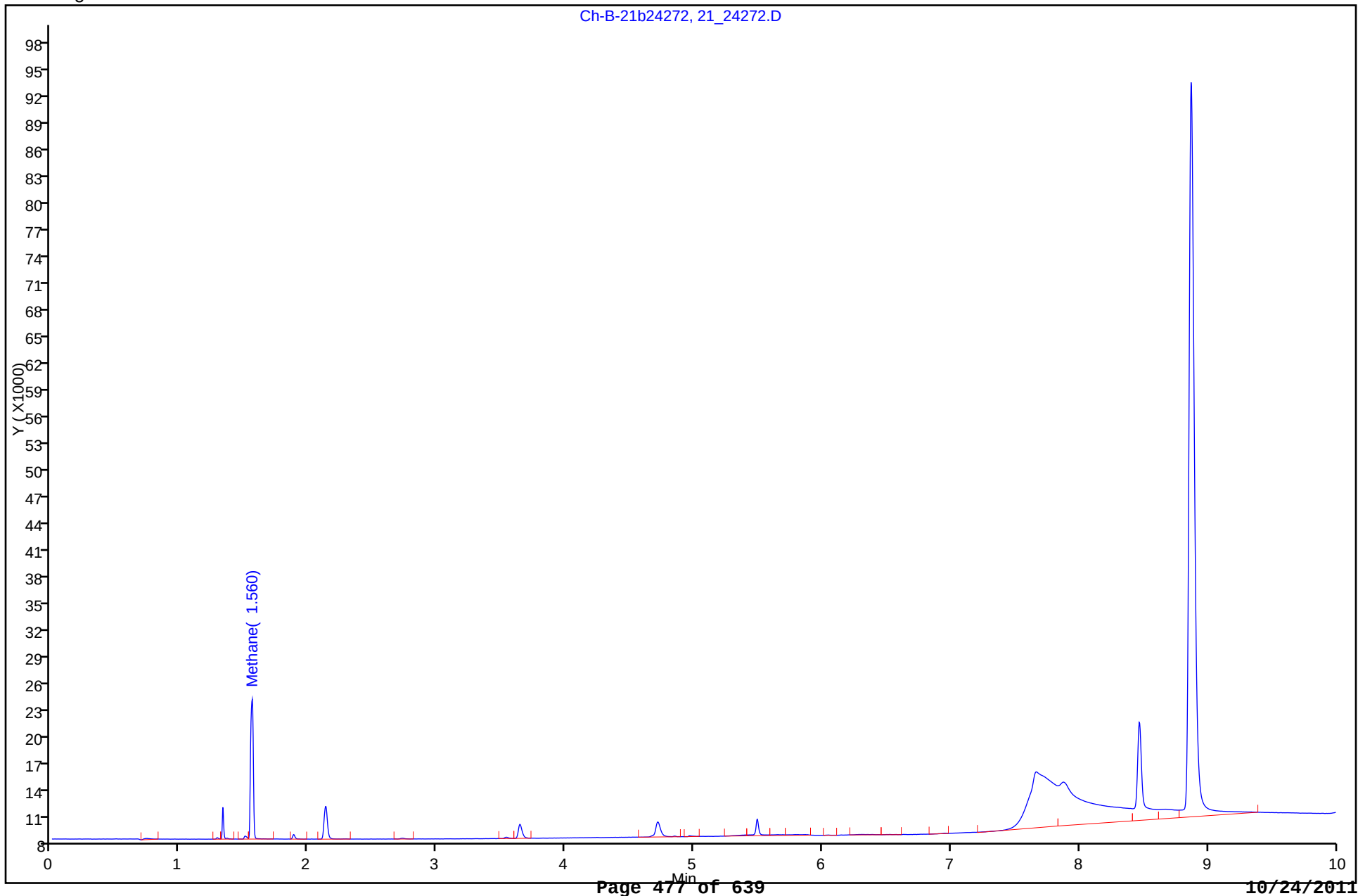
Date: 03-Oct-2011 20:06:34

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.560 1.560 0.000 23747 11.8

Report Date: 03-Oct-2011 20:06:35 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24272.D
Injection Date: 03-Oct-2011 19:49:22 Limit Group: GC - RSK175 ICAL
Client ID: A2-PZ1 Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 7
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: A1-PZ2 Lab Sample ID: 480-10504-7
Matrix: Water Lab File ID: 21_24273.D
Analysis Method: RSK-175 Date Collected: 09/27/2011 12:05
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 20:03
Soil Aliquot Vol: _____ Dilution Factor: 100
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	710		100	22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24273.D
Lims ID: 480-10504-H-7 Client ID: A1-PZ2
Inject. Date: 03-Oct-2011 20:03:09 Dil. Factor: 100.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 8
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

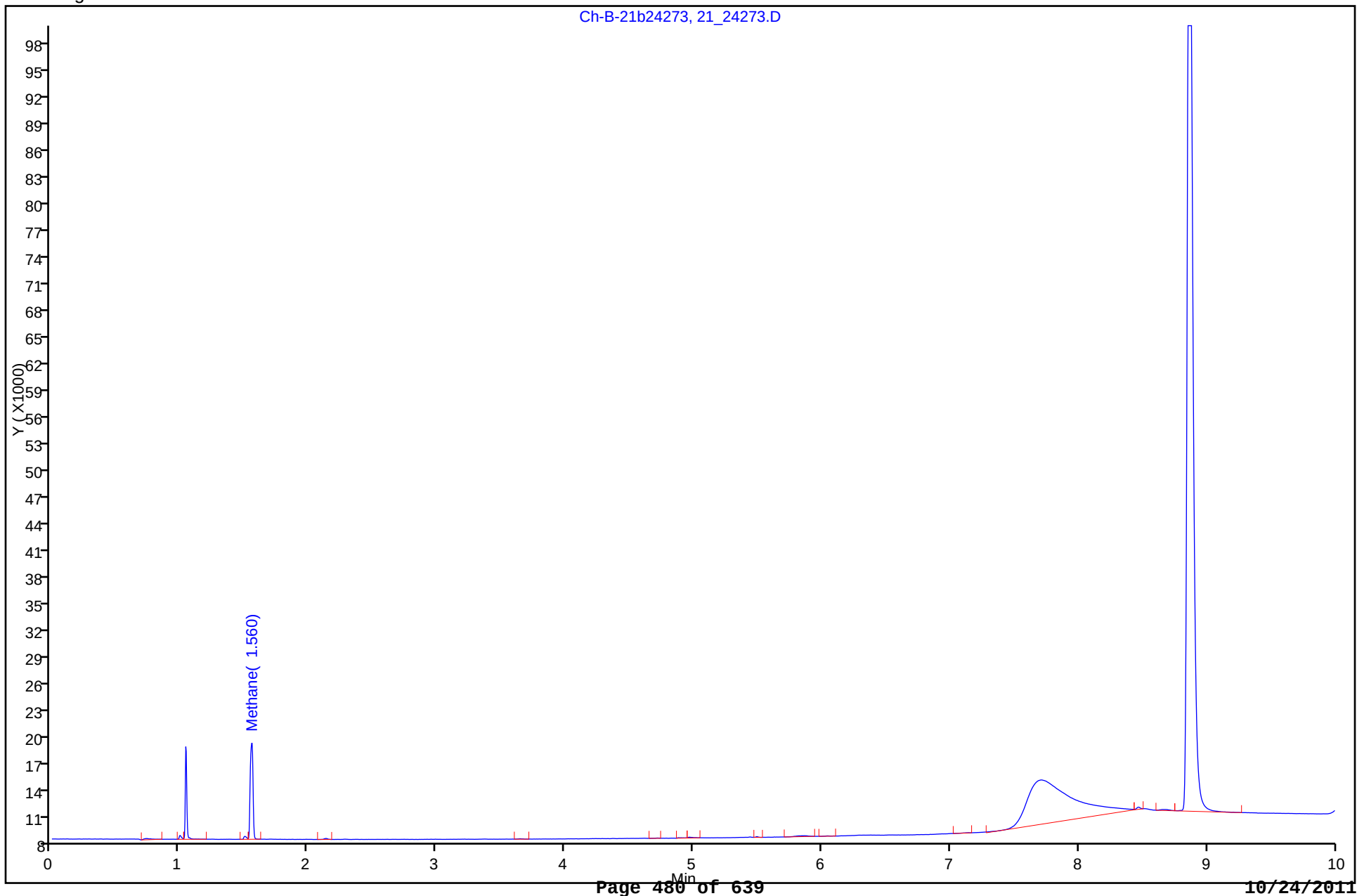
03-Oct-2011 20:15:52

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.560 1.560 0.000 16524 7.13

Report Date: 03-Oct-2011 20:15:52 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24273.D
Injection Date: 03-Oct-2011 20:03:09 Limit Group: GC - RSK175 ICAL
Client ID: A1-PZ2 Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 8
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: PZ-13R Lab Sample ID: 480-10504-9
Matrix: Water Lab File ID: 21_24274.D
Analysis Method: RSK-175 Date Collected: 09/27/2011 12:55
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 20:17
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	120		10	2.2

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24274.D
Lims ID: 480-10504-G-9 Client ID: PZ-13R
Inject. Date: 03-Oct-2011 20:17:01 Dil. Factor: 10.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 9
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 20:31:44

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.560 -0.003 24619 12.4

Report Date: 03-Oct-2011 20:31:44

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24274.D

Injection Date: 03-Oct-2011 20:17:01

Limit Group: GC - RSK175 ICAL

Client ID: PZ-13R

Instrument ID: HP5890-21

Lims Batch ID: 33781

Lims Sample ID: 9

Operator ID: tchrom

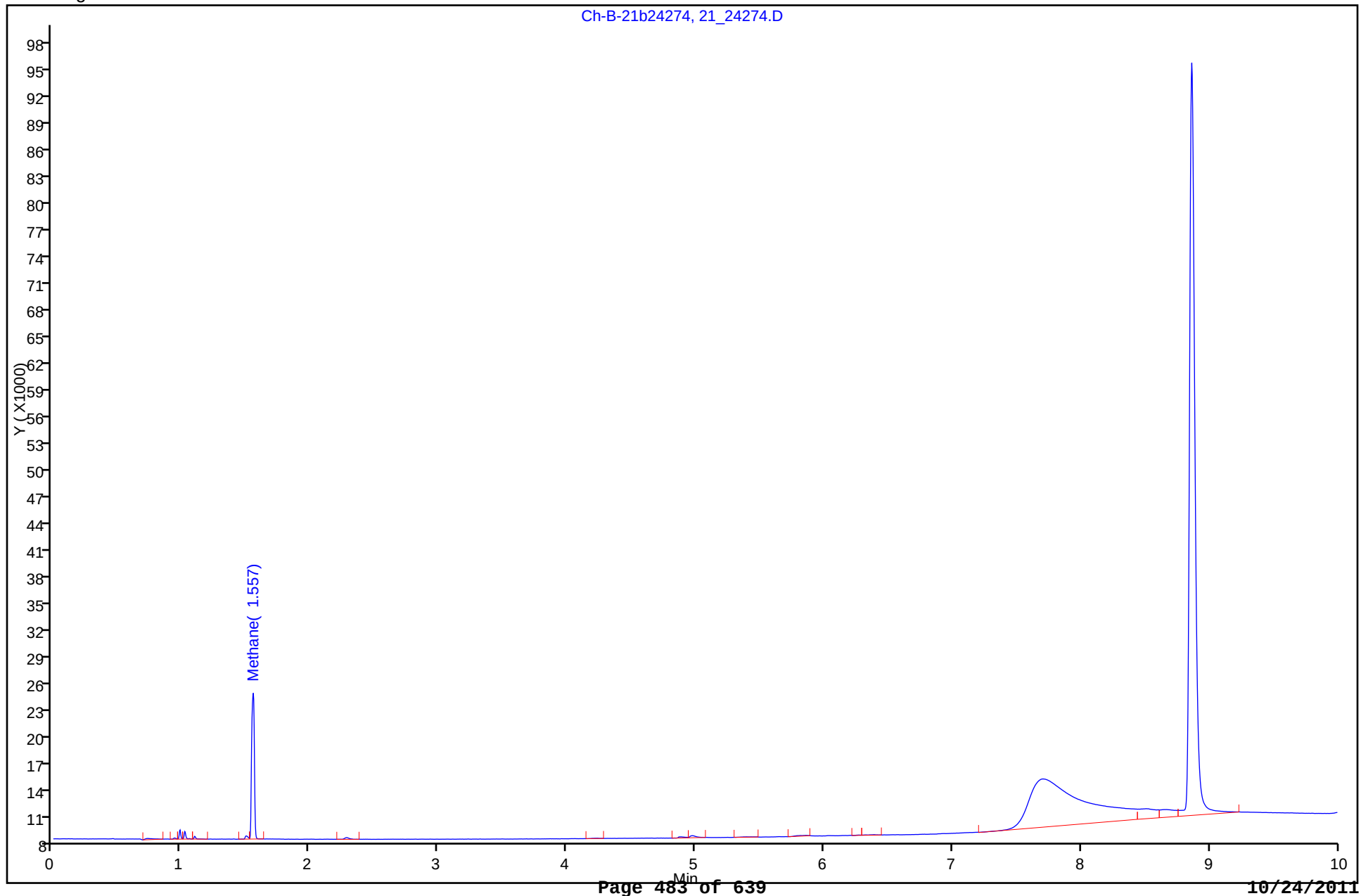
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b24274, 21_24274.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: MW-1 Lab Sample ID: 480-10504-12
Matrix: Water Lab File ID: 21_24275.D
Analysis Method: RSK-175 Date Collected: 09/28/2011 14:55
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 20:30
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	130		1.0	0.22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24275.D
Lims ID: 480-10504-G-12 Client ID: MW-1
Inject. Date: 03-Oct-2011 20:30:54 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 10
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 20:44:23

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.560 -0.003 208284 132.3

Report Date: 03-Oct-2011 20:44:23

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24275.D

Injection Date: 03-Oct-2011 20:30:54

Limit Group: GC - RSK175 ICAL

Client ID: MW-1

Instrument ID: HP5890-21

Lims Batch ID: 33781

Lims Sample ID: 10

Operator ID: tchrom

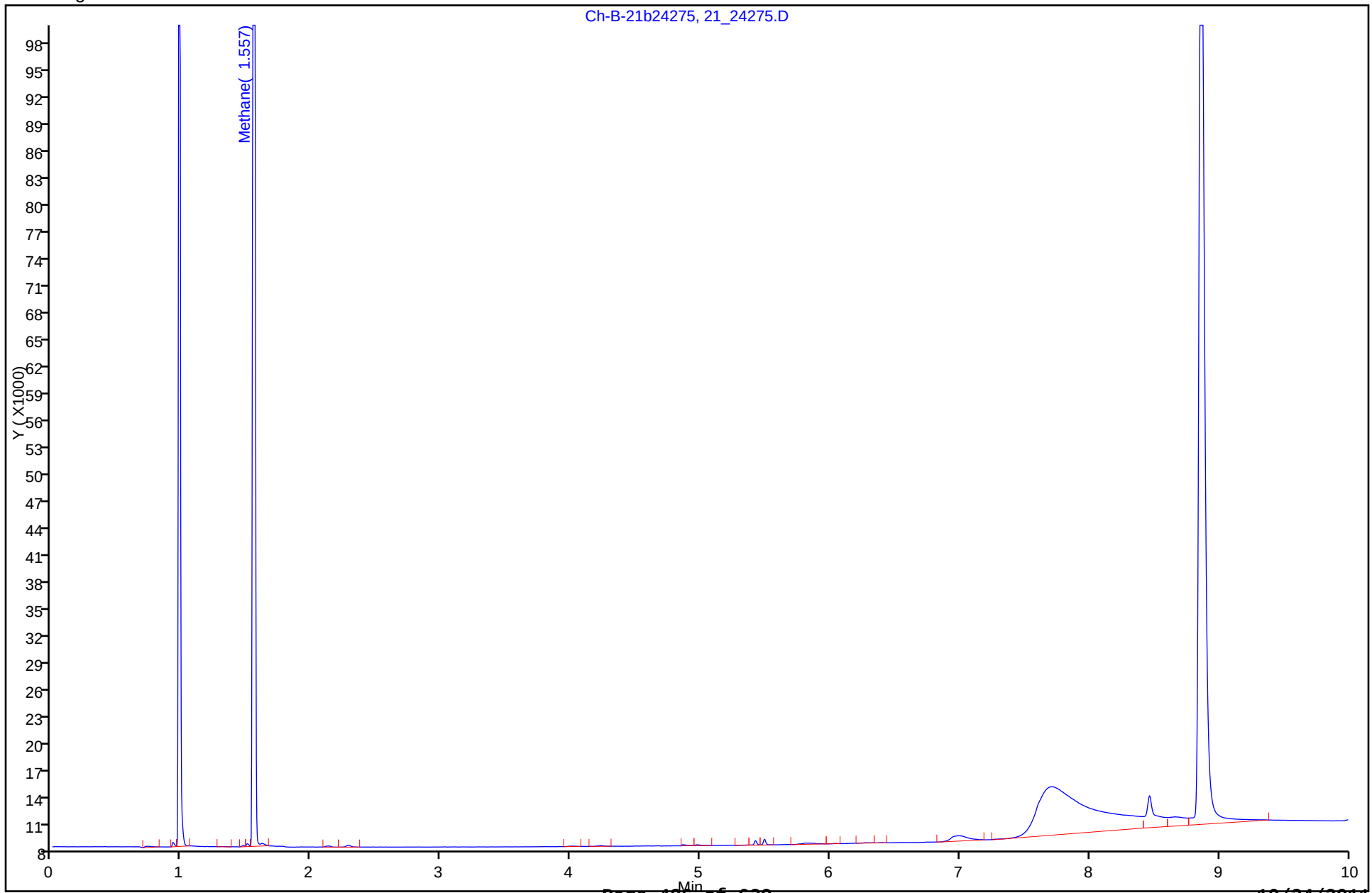
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b24275, 21_24275.D



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: MW-3 Lab Sample ID: 480-10504-13
Matrix: Water Lab File ID: 21_24276.D
Analysis Method: RSK-175 Date Collected: 09/28/2011 16:55
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 20:44
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	57		1.0	0.22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24276.D
Lims ID: 480-10504-G-13 Client ID: MW-3
Inject. Date: 03-Oct-2011 20:44:49 Dil. Factor: 1.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 11
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

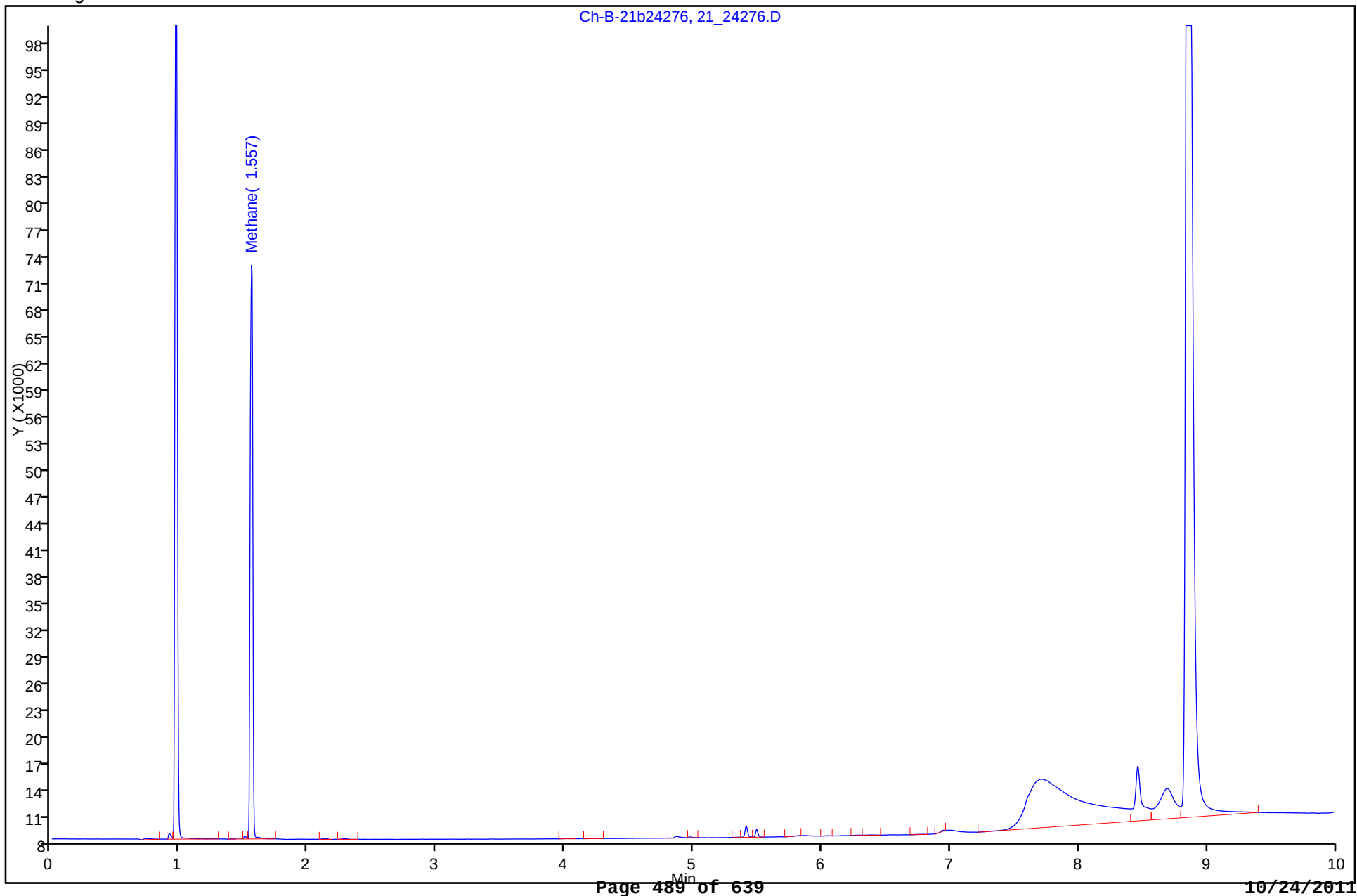
03-Oct-2011 21:07:55

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.560 -0.003 93073 57.1

Report Date: 03-Oct-2011 21:07:56 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24276.D
Injection Date: 03-Oct-2011 20:44:49 Limit Group: GC - RSK175 ICAL
Client ID: MW-3 Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 11
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: MW-10 Lab Sample ID: 480-10504-20
Matrix: Water Lab File ID: 21_24277.D
Analysis Method: RSK-175 Date Collected: 09/29/2011 12:45
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 20:58
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	97		10	2.2

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24277.D
Lims ID: 480-10504-G-20 Client ID: MW-10
Inject. Date: 03-Oct-2011 20:58:43 Dil. Factor: 10.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 12
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

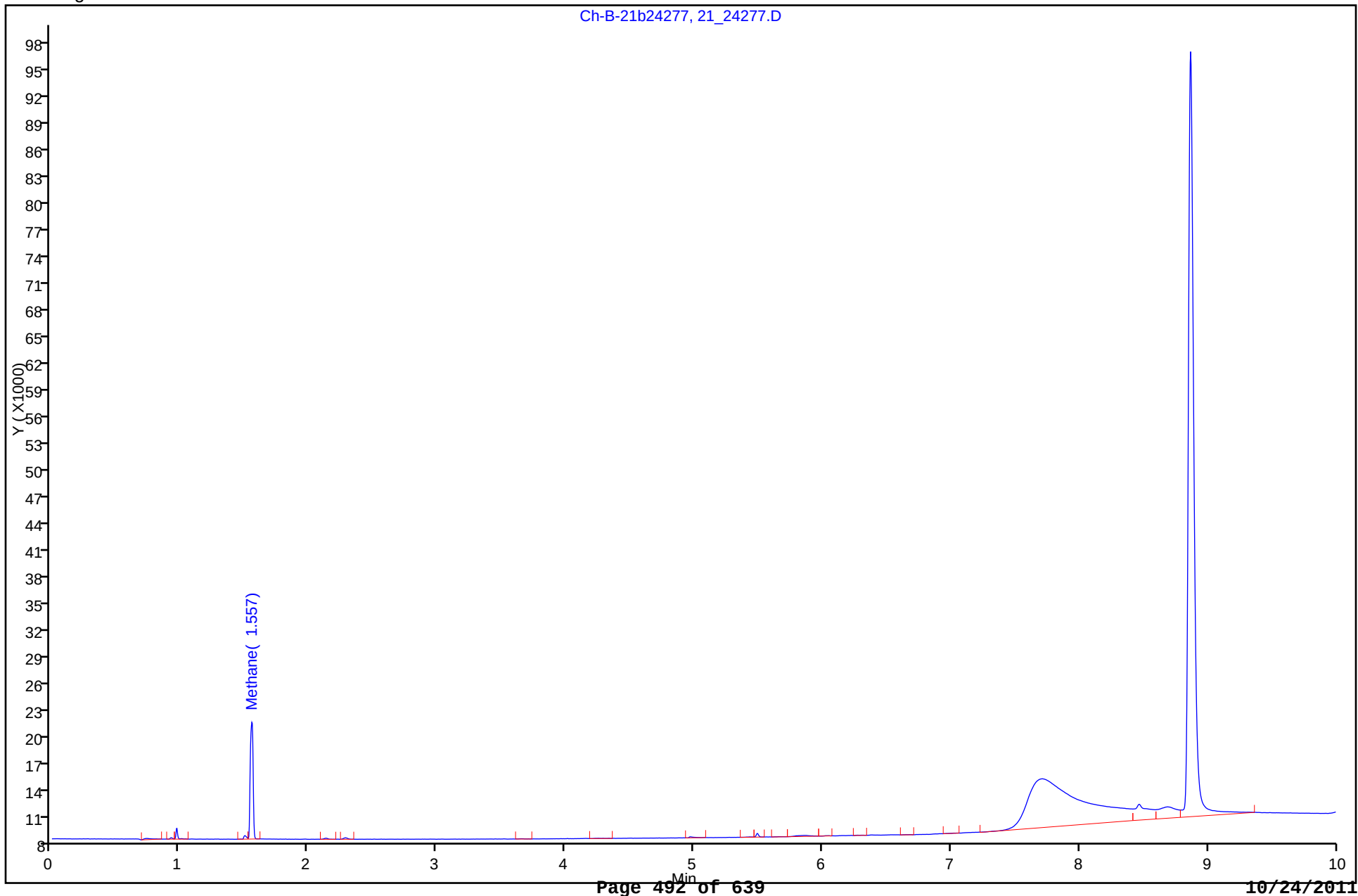
Date: 03-Oct-2011 21:25:16

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.560 -0.003 20523 9.74

Report Date: 03-Oct-2011 21:25:16 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24277.D
Injection Date: 03-Oct-2011 20:58:43 Limit Group: GC - RSK175 ICAL
Client ID: MW-10 Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 12
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: DUP-092811 Lab Sample ID: 480-10504-22
Matrix: Water Lab File ID: 21_24278.D
Analysis Method: RSK-175 Date Collected: 09/28/2011 00:00
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 21:12
Soil Aliquot Vol: _____ Dilution Factor: 10
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	66		10	2.2

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24278.D
Lims ID: 480-10504-G-22 Client ID: DUP-092811
Inject. Date: 03-Oct-2011 21:12:36 Dil. Factor: 10.0000
Sample Type: Client
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 13
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 21:37:58 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

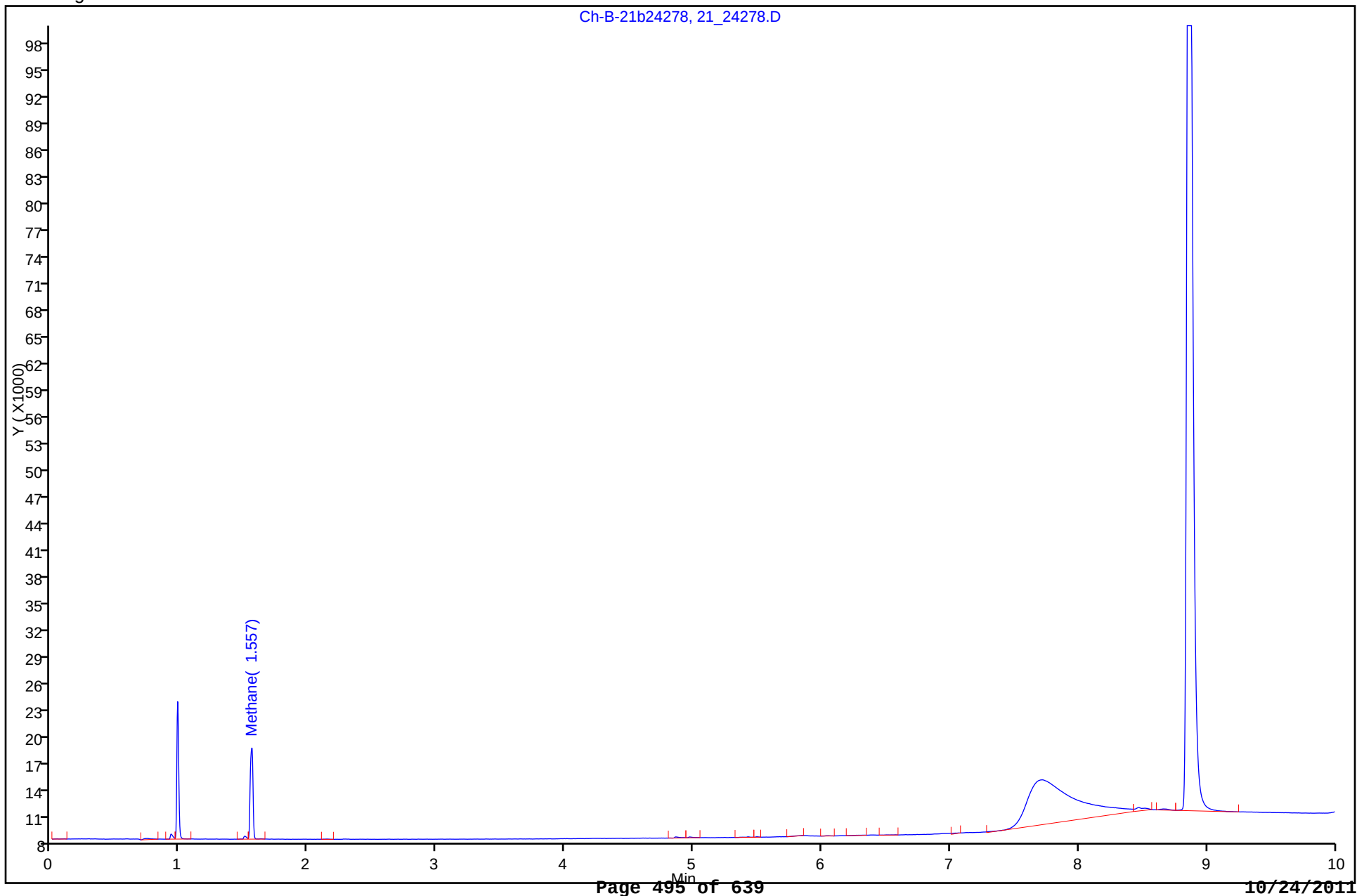
03-Oct-2011 22:44:53

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.560 -0.003 15632 6.55

Report Date: 03-Oct-2011 22:44:53 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24278.D
Injection Date: 03-Oct-2011 21:12:36 Limit Group: GC - RSK175 ICAL
Client ID: DUP-092811 Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 13
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32062

SDG No.: _____

Instrument ID: HP5890-21 GC Column: RTX-U Plot ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 19:31 Calibration End Date: 09/20/2011 21:39 Calibration ID: 3907

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-32062/1	21_23230.D
Level 2	STD2 480-32062/2	21_23231.D
Level 3	STD3 480-32062/3	21_23232.D
Level 4	STD4 480-32062/4	21_23233.D
Level 5	STD5 480-32062/5	21_23234.D
Level 6	STD6 480-32062/6	21_23235.D
Level 7	STD7 480-32062/7	21_23236.D
Level 8	STD8 480-32062/8	21_23238.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Methane	1.560	1.557	1.557	1.557	1.557	1.557	1.557	1.557			1.307 - 1.807	1.557
Ethene	2.130	2.133	2.133	2.133	2.133	2.133	2.130	2.130			1.883 - 2.383	2.132
Ethane	2.280	2.287	2.283	2.283	2.283	2.283	2.283	2.280			2.033 - 2.533	2.283
Acetylene	2.893	2.900	2.900	2.897	2.897	2.897	2.897	2.890			2.650 - 3.150	2.896

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32062

SDG No.: _____

Instrument ID: HP5890-21 GC Column: RTX-U Plot ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 19:31 Calibration End Date: 09/20/2011 21:39 Calibration ID: 3907

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-32062/1	21_23230.D
Level 2	STD2 480-32062/2	21_23231.D
Level 3	STD3 480-32062/3	21_23232.D
Level 4	STD4 480-32062/4	21_23233.D
Level 5	STD5 480-32062/5	21_23234.D
Level 6	STD6 480-32062/6	21_23235.D
Level 7	STD7 480-32062/7	21_23236.D
Level 8	STD8 480-32062/8	21_23238.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Methane	17052 1972.1	3754.1 1650.0	2661.1 1606.3	2186.3 1574.7	Lin1	5599.26850	1532.36823							0.9970		0.9900
Ethene	11121 1709.0	2521.1 1497.3	2042.3 1437.4	1814.6 1470.5	Lin1	5920.88527	1426.09342							0.9970		0.9900
Ethane	12365 1939.0	2824.3 1670.0	2270.5 1643.7	2004.9 1615.5	Lin1	7075.47912	1589.94722							0.9970		0.9900
Acetylene	3940.8 560.26	864.96 574.27	720.64 543.70	667.68 575.01	Lin1	1835.91264	546.448242							0.9950		0.9900

Note: The m1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1 Analy Batch No.: 32062

SDG No.: _____

Instrument ID: HP5890-21 GC Column: RTX-U Plot ID: 0.32 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/20/2011 19:31 Calibration End Date: 09/20/2011 21:39 Calibration ID: 3907

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-32062/1	21_23230.D
Level 2	STD2 480-32062/2	21_23231.D
Level 3	STD3 480-32062/3	21_23232.D
Level 4	STD4 480-32062/4	21_23233.D
Level 5	STD5 480-32062/5	21_23234.D
Level 6	STD6 480-32062/6	21_23235.D
Level 7	STD7 480-32062/7	21_23236.D
Level 8	STD8 480-32062/8	21_23238.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methane	Lin1	6559 63467	7220 123572	10236 242277	16819	37929	0.385 38.5	1.92 76.9	3.85 154	7.69	19.2
Ethene	Lin1	7486 100783	8485 193504	13747 395919	24429	57518	0.673 67.3	3.37 135	6.73 269	13.5	33.7
Ethane	Lin1	8917 120436	10184 237077	16374 466033	28918	69918	0.721 72.1	3.61 144	7.21 288	14.4	36.1
Acetylene	Lin1	2463 35892	2703 67962	4504 143752	8346	17508	0.625 62.5	3.13 125	6.25 250	12.5	31.3

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23230.D
Lims ID: STD1 Client ID:
Inject. Date: 20-Sep-2011 19:31:30 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 1
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 1
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:46 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:46

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.560 1.557 0.003 6559 0.6263

3 Ethylene

2 2.130 2.133 -0.003 7486 1.10

2 Ethane

2 2.280 2.283 -0.003 8917 1.16

1 Acetylene

2 2.893 2.900 -0.007 2463 1.15

Report Date: 21-Sep-2011 13:41:46

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23230.D

Injection Date: 20-Sep-2011 19:31:30

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 1

Operator ID: tchrom

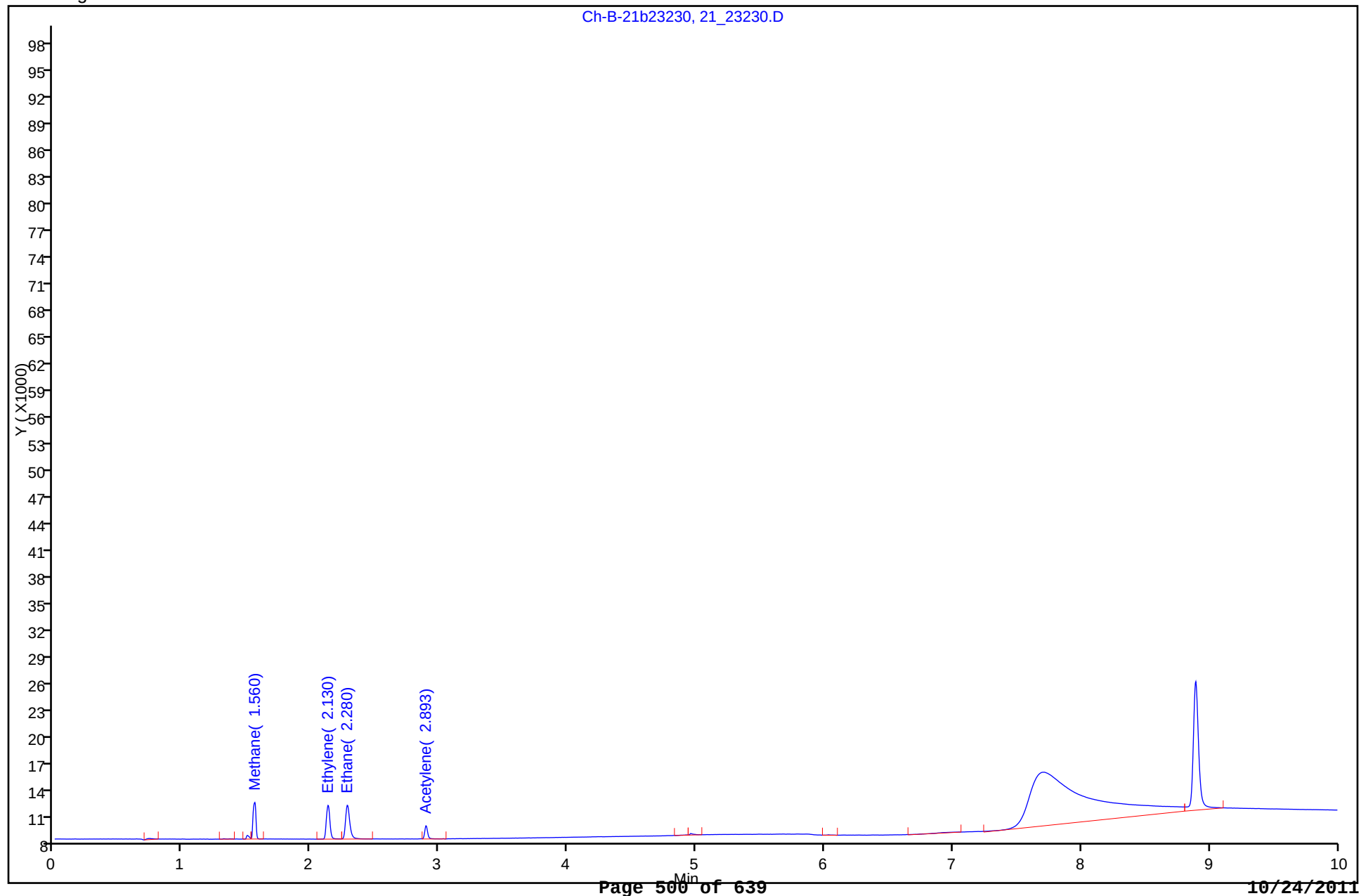
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23230, 21_23230.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23231.D
Lims ID: STD2 Client ID:
Inject. Date: 20-Sep-2011 19:45:28 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 2
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 2
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:48 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:48

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						
2	1.557	1.557	0.000	7220	1.06	
3 Ethylene						
2	2.133	2.133	0.000	8485	1.80	
2 Ethane						
2	2.287	2.283	0.004	10184	1.96	
1 Acetylene						
2	2.900	2.900	0.000	2703	1.59	

Report Date: 21-Sep-2011 13:41:49

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23231.D

Injection Date: 20-Sep-2011 19:45:28

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 2

Operator ID: tchrom

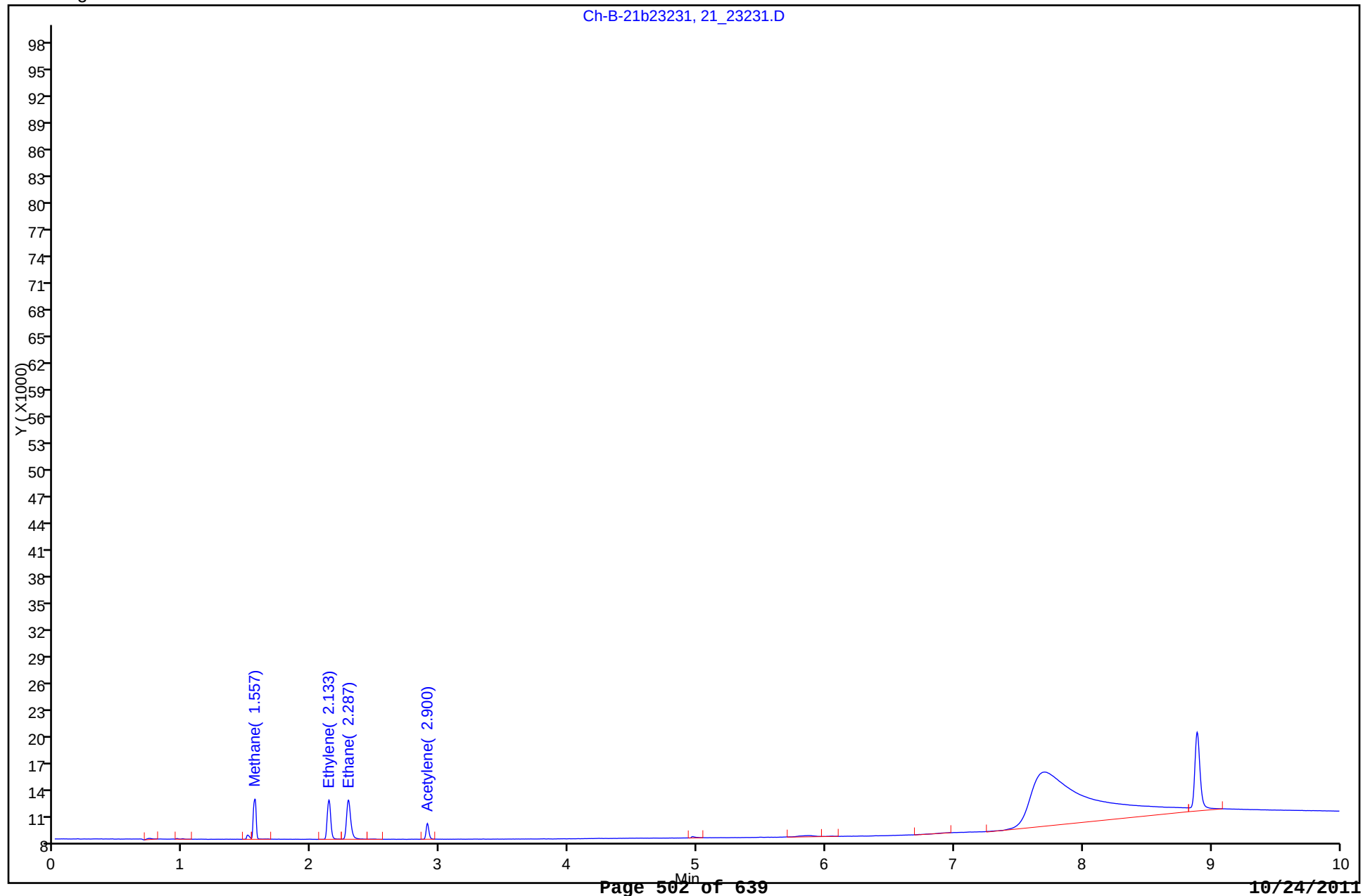
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23231, 21_23231.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23232.D
Lims ID: STD3 Client ID:
Inject. Date: 20-Sep-2011 19:59:32 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 3
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:51 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:51

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						
2	1.557	1.557	0.000	10236	3.03	
3 Ethylene						
2	2.133	2.133	0.000	13747	5.49	
2 Ethane						
2	2.283	2.283	0.000	16374	5.85	
1 Acetylene						
2	2.900	2.900	0.000	4504	4.88	

Report Date: 21-Sep-2011 13:41:51

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23232.D

Injection Date: 20-Sep-2011 19:59:32

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 3

Operator ID: tchrom

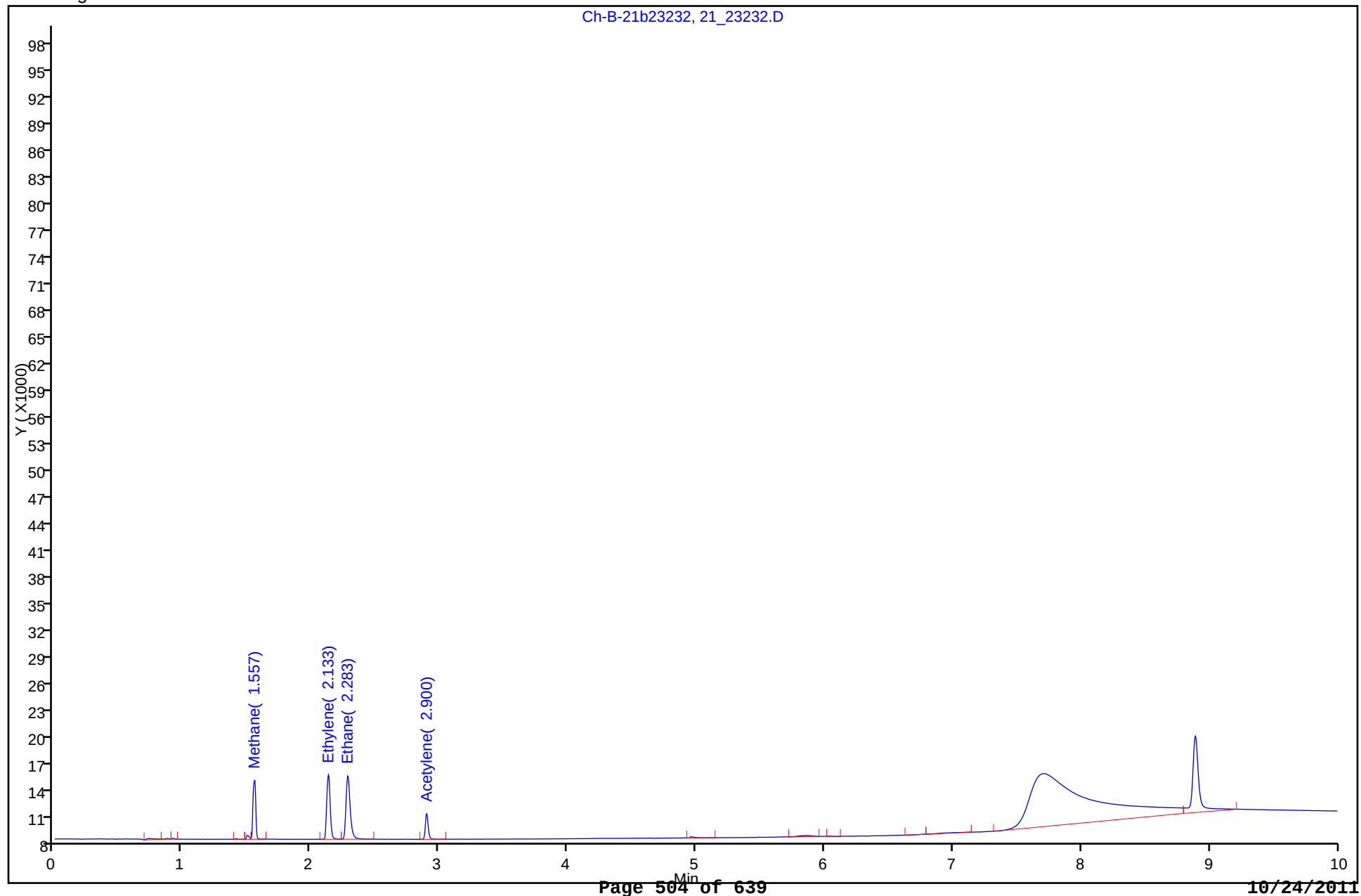
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23232, 21_23232.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23233.D
Lims ID: STD4 Client ID:
Inject. Date: 20-Sep-2011 20:13:39 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 4
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 4
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:53 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:53

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						
2	1.557	1.557	0.000	16819	7.32	
3 Ethylene						
2	2.133	2.133	0.000	24429	13.0	
2 Ethane						
2	2.283	2.283	0.000	28918	13.7	
1 Acetylene						
2	2.897	2.900	-0.003	8346	11.9	

Report Date: 21-Sep-2011 13:41:53

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23233.D

Injection Date: 20-Sep-2011 20:13:39

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 4

Operator ID: tchrom

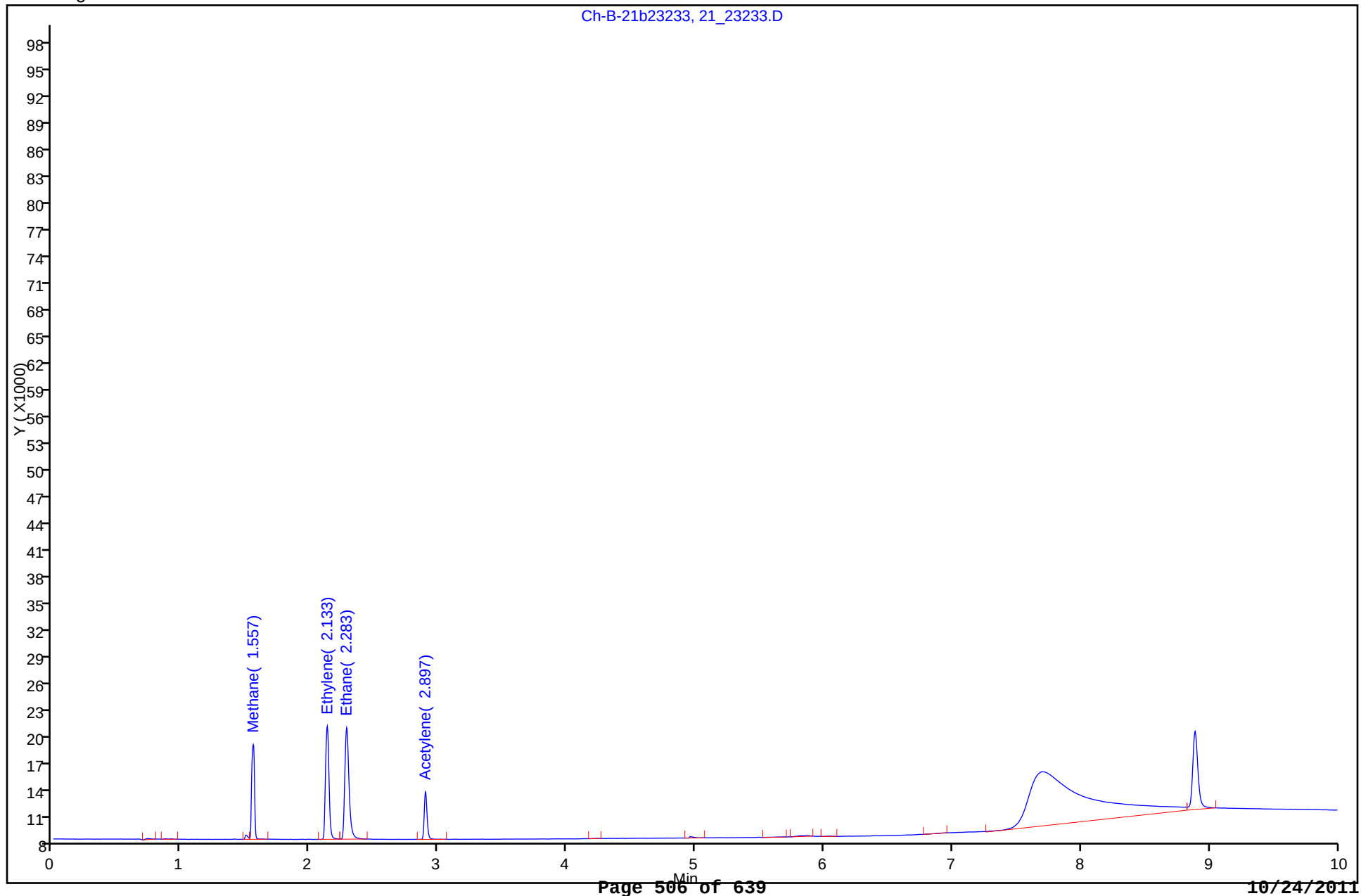
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23233, 21_23233.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23234.D
Lims ID: STD5 Client ID:
Inject. Date: 20-Sep-2011 20:27:45 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 5
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 5
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:55 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:55

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.557 0.000 37929 21.1

3 Ethylene

2 2.133 2.133 0.000 57518 36.2

2 Ethane

2 2.283 2.283 0.000 69918 39.5

1 Acetylene

2 2.897 2.900 -0.003 17508 28.7

Report Date: 21-Sep-2011 13:41:55

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23234.D

Injection Date: 20-Sep-2011 20:27:45

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 5

Operator ID: tchrom

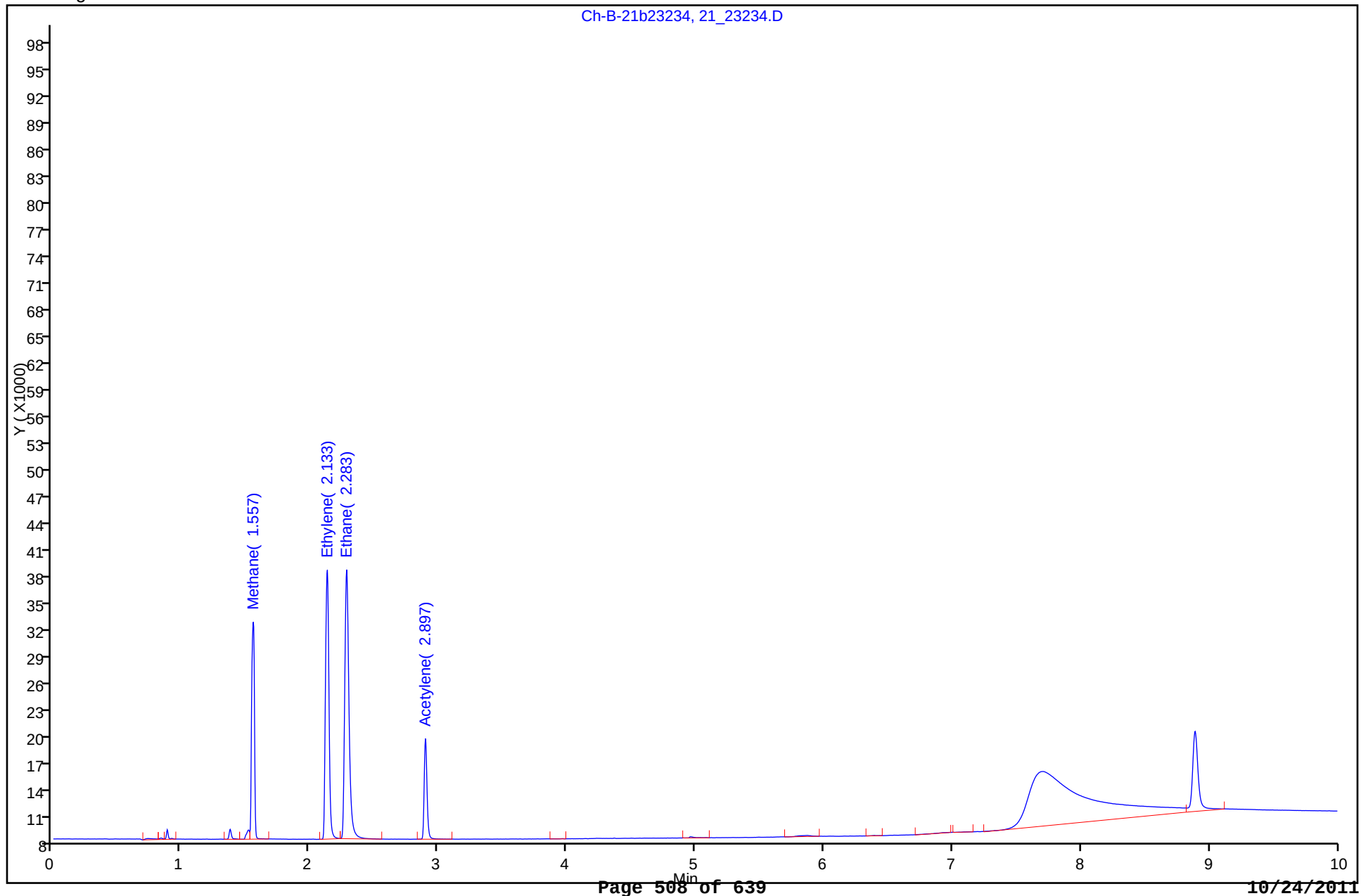
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23234, 21_23234.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23235.D
Lims ID: STD6 Client ID:
Inject. Date: 20-Sep-2011 20:41:57 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 6
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 6
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:41:57 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:41:57

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.557 0.000 63467 37.8

3 Ethylene

2 2.133 2.133 0.000 100783 66.5

2 Ethane

2 2.283 2.283 0.000 120436 71.3

1 Acetylene

2 2.897 2.900 -0.003 35892 62.3

Report Date: 21-Sep-2011 13:41:57

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23235.D

Injection Date: 20-Sep-2011 20:41:57

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 6

Operator ID: tchrom

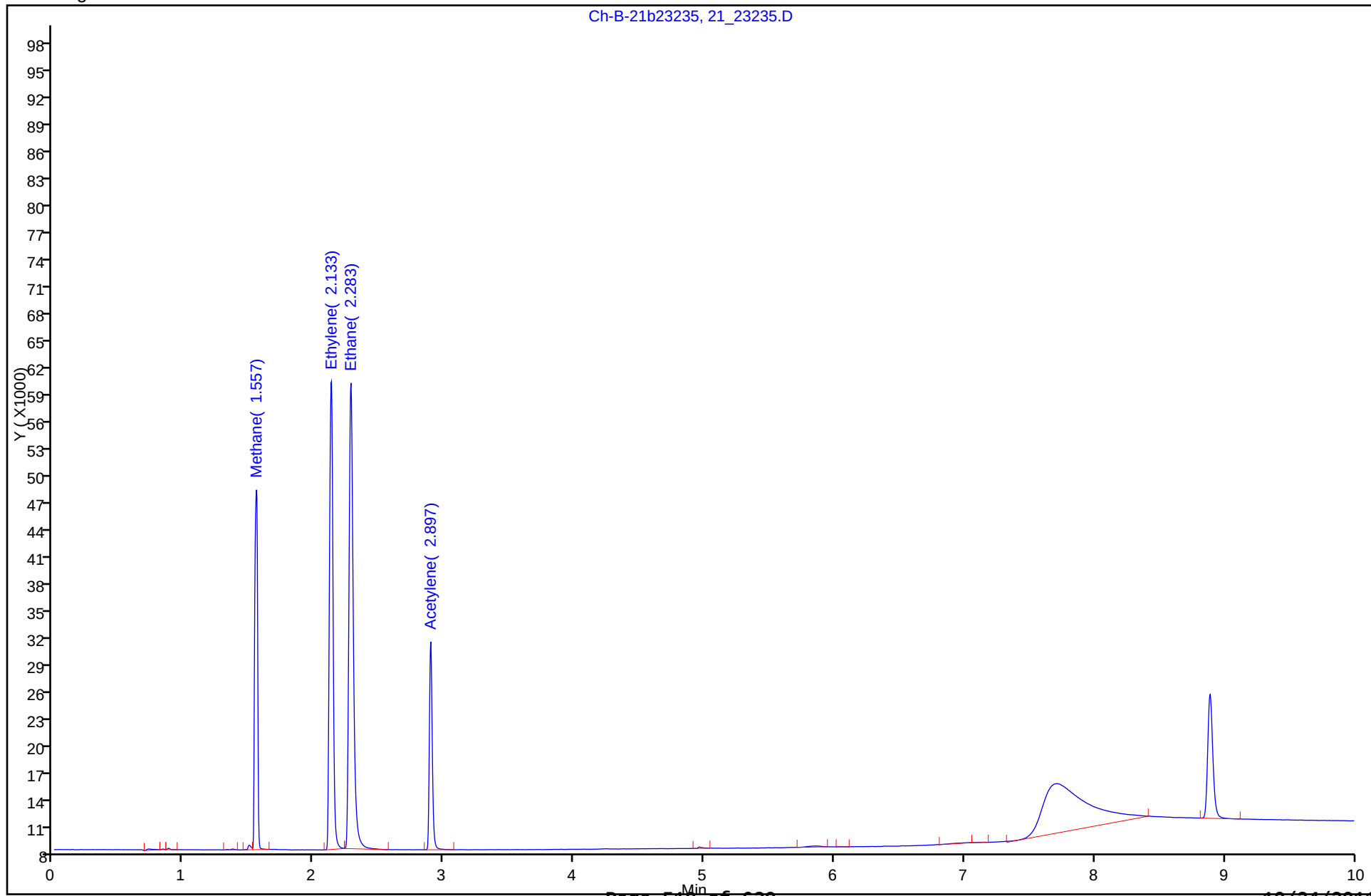
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23235, 21_23235.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23236.D
Lims ID: STD7 Client ID:
Inject. Date: 20-Sep-2011 20:56:04 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 7
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 7
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:42:00 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:42:00

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.557 0.000 123572 77.0

3 Ethylene

2 2.130 2.133 -0.003 193504 131.5

2 Ethane

2 2.283 2.283 0.000 237077 144.7

1 Acetylene

2 2.897 2.900 -0.003 67962 121.0

Report Date: 21-Sep-2011 13:42:00

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23236.D

Injection Date: 20-Sep-2011 20:56:04

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 7

Operator ID: tchrom

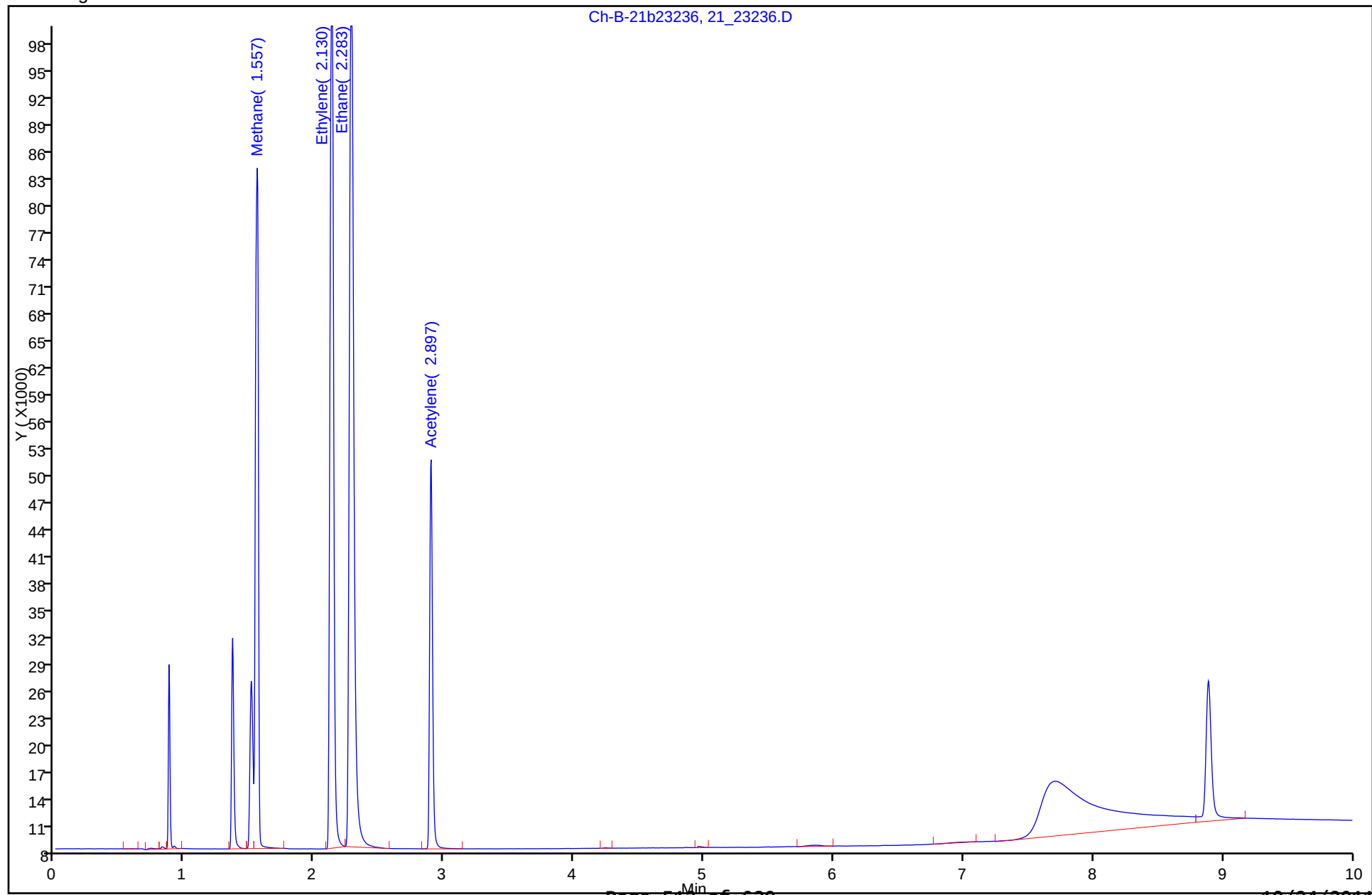
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23236, 21_23236.D



TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Lims ID: STD8 Client ID:
Inject. Date: 20-Sep-2011 21:39:44 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 8
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 32062 Lims Sample ID: 8
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\RSK-175.m
Last Update: 21-Sep-2011 13:42:03 Calib Date: 20-Sep-2011 21:39:44
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

21-Sep-2011 13:42:03

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

4 Methane

2 1.557 1.557 0.000 242277 154.5

3 Ethylene

2 2.130 2.133 -0.003 395919 273.5

2 Ethane

2 2.280 2.283 -0.003 466033 288.7

1 Acetylene

2 2.890 2.900 -0.010 143752 259.7

Report Date: 21-Sep-2011 13:42:03

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23238.D

Injection Date: 20-Sep-2011 21:39:44

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 32062

Lims Sample ID: 8

Operator ID: tchrom

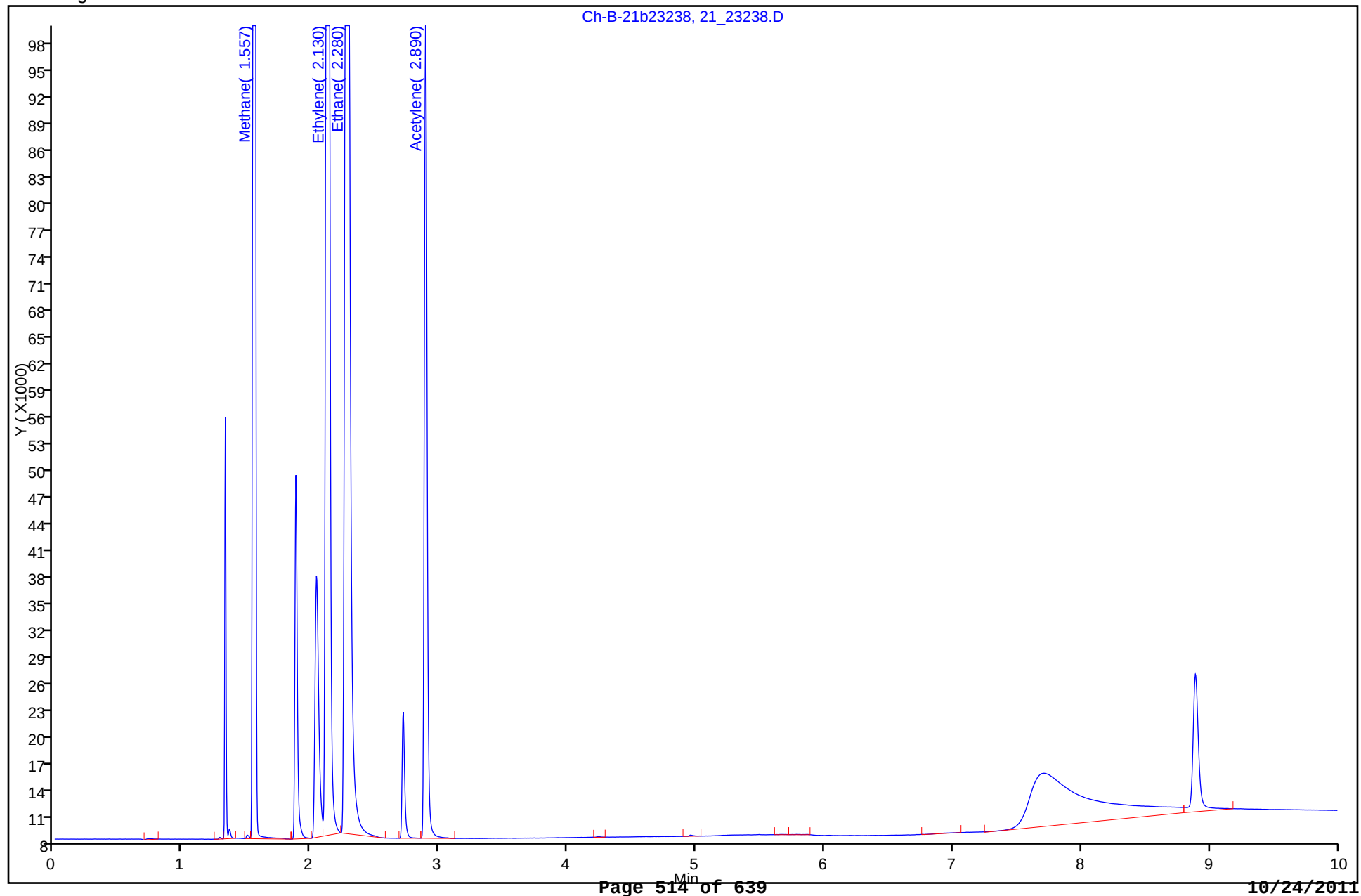
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b23238, 21_23238.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab Sample ID: CCV 480-33781/4 Calibration Date: 10/03/2011 18:43
Instrument ID: HP5890-21 Calib Start Date: 09/20/2011 19:31
GC Column: RTX-U Plot ID: 0.32 (mm) Calib End Date: 09/20/2011 21:39
Lab File ID: 21_24269.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		2047		6.62	7.69	-13.9	15.0
Ethene	Lin1		1869		13.5	13.5	0.3	15.0
Ethane	Lin1		2021		13.9	14.4	-3.6	15.0
Acetylene	Lin1		752.5		13.9	12.5	11.2	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab Sample ID: CCV 480-33781/4 Calibration Date: 10/03/2011 18:43
Instrument ID: HP5890-21 Calib Start Date: 09/20/2011 19:31
GC Column: RTX-U Plot ID: 0.32 (mm) Calib End Date: 09/20/2011 21:39
Lab File ID: 21_24269.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		TO	FROM
Methane	1.56	1.31	1.81
Ethene	2.13	1.88	2.38
Ethane	2.28	2.03	2.53
Acetylene	2.89	2.64	3.14

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24269.D
Lims ID: CCV Client ID:
Inject. Date: 03-Oct-2011 18:43:16 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 4
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:01:37 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 19:01:37

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						
2	1.560	1.560	0.000	15744	6.62	
3 Ethylene						
2	2.130	2.130	0.000	25159	13.5	
2 Ethane						
2	2.280	2.280	0.000	29147	13.9	
1 Acetylene						
2	2.890	2.890	0.000	9406	13.9	

Report Date: 03-Oct-2011 19:01:37

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24269.D

Injection Date: 03-Oct-2011 18:43:16

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 33781

Lims Sample ID: 4

Operator ID: tchrom

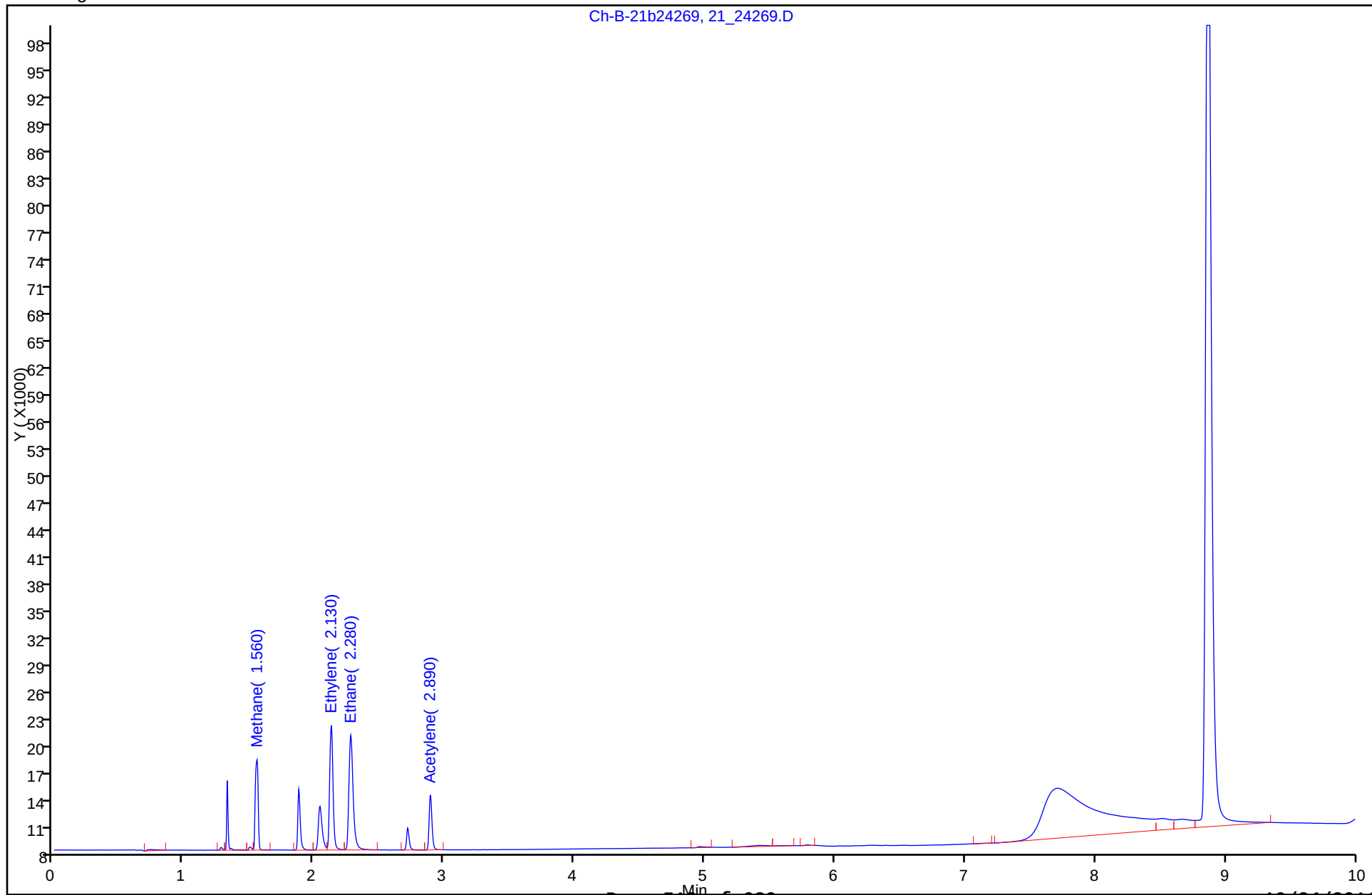
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b24269, 21_24269.D



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab Sample ID: CCV 480-33781/16 Calibration Date: 10/03/2011 23:39
Instrument ID: HP5890-21 Calib Start Date: 09/20/2011 19:31
GC Column: RTX-U Plot ID: 0.32 (mm) Calib End Date: 09/20/2011 21:39
Lab File ID: 21_25002.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methane	Lin1		2044		6.61	7.69	-14.1	15.0
Ethene	Lin1		1807		12.9	13.5	-4.2	15.0
Ethane	Lin1		1982		13.5	14.4	-6.4	15.0
Acetylene	Lin1		769.8		14.3	12.5	14.4	15.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Lab Sample ID: CCV 480-33781/16 Calibration Date: 10/03/2011 23:39
Instrument ID: HP5890-21 Calib Start Date: 09/20/2011 19:31
GC Column: RTX-U Plot ID: 0.32 (mm) Calib End Date: 09/20/2011 21:39
Lab File ID: 21_25002.D Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		TO	FROM
Methane	1.56	1.31	1.81
Ethene	2.13	1.88	2.38
Ethane	2.28	2.03	2.53
Acetylene	2.89	2.64	3.14

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_25002.D
Lims ID: ccv Client ID:
Inject. Date: 03-Oct-2011 23:39:48 Dil. Factor: 1.0000
Sample Type: CCV
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 16
Sublist: chrom-RSK-175*sub1
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 23:51:34 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 23:51:34

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						M
2	1.560	1.560	0.000	15728	6.61	M
3 Ethylene						
2	2.130	2.130	0.000	24328	12.9	
2 Ethane						
2	2.280	2.280	0.000	28590	13.5	
1 Acetylene						
2	2.893	2.893	0.000	9623	14.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 03-Oct-2011 23:51:34

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_25002.D

Injection Date: 03-Oct-2011 23:39:48

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 33781

Lims Sample ID: 16

Operator ID: tchrom

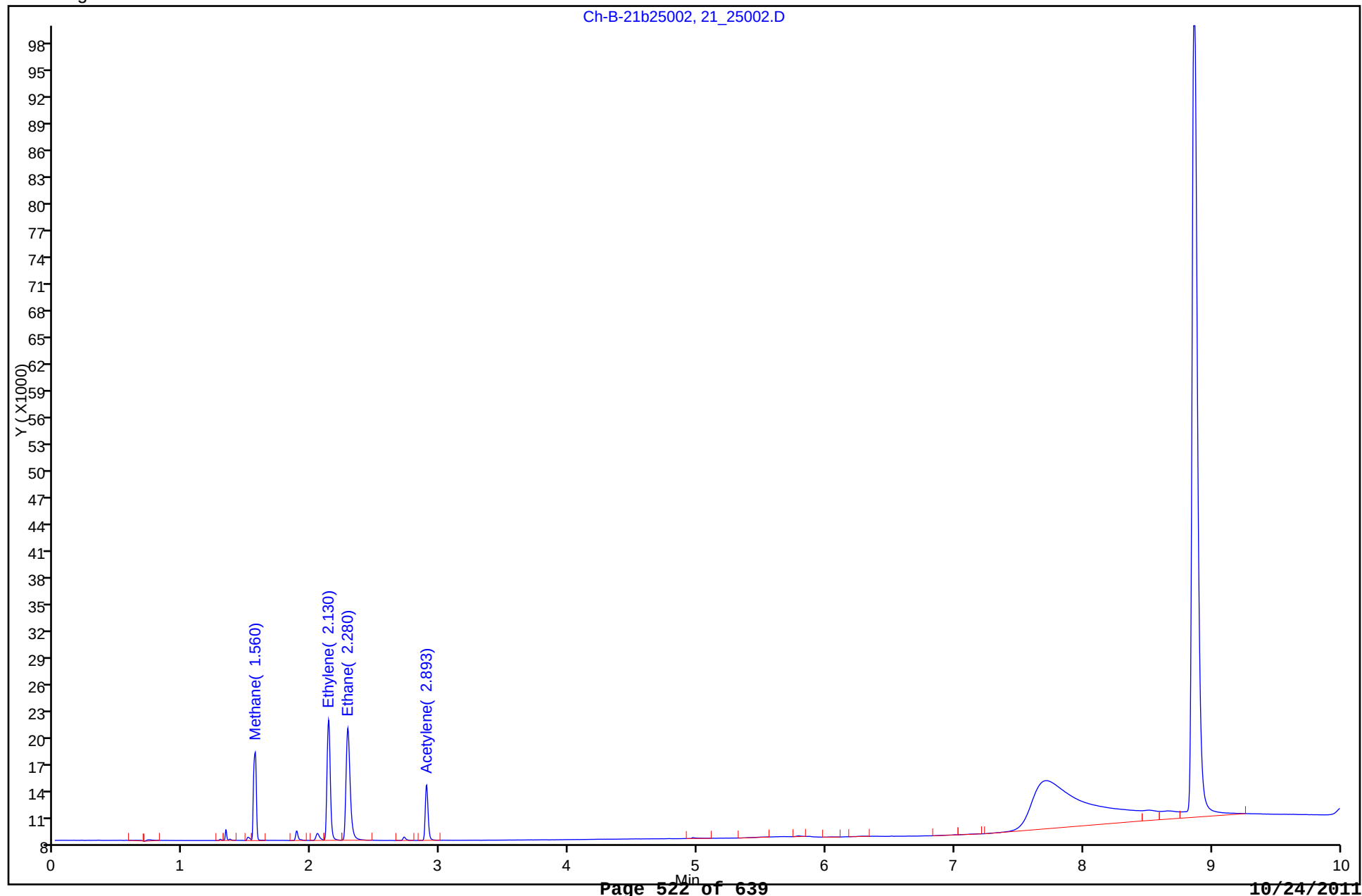
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b25002, 21_25002.D

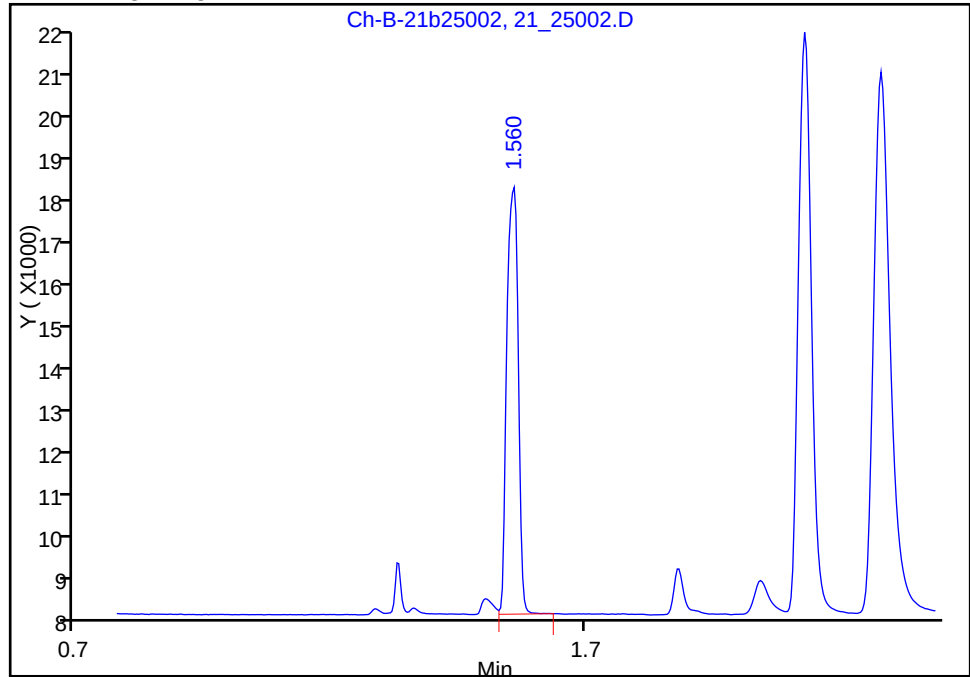


Data File:	\\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_25002.D		
Injection Date:	03-Oct-2011 23:39:48	Limit Group:	GC - RSK175 ICAL
Client ID:		Instrument ID:	HP5890-21
Lims Batch ID:	33781	Lims Sample ID:	16
Operator ID:	tchrom	Injection Vol:	1.00 ul
Column Type:	RTX-U-plot	Column Dia:	0.32 mm

4 Methane, Signal: 1, Type: quant, RT: 1.56, Det: Ch-B-21b09074

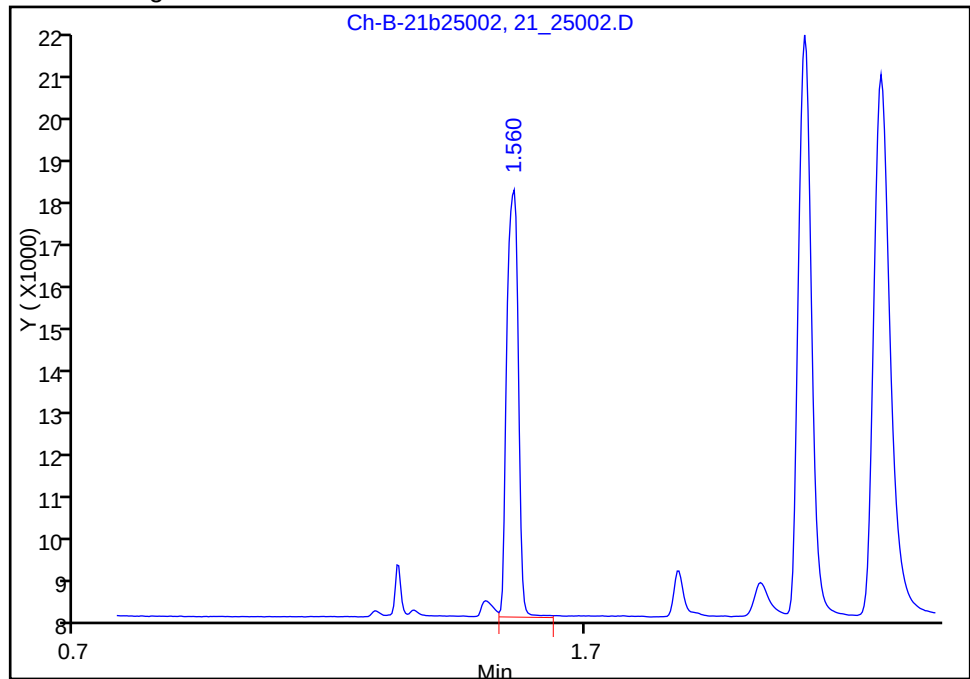
RT: 1.56
Response: 15542
Amount: 6.488474

Processing Integration Results



RT: 1.56
Response: 15728
Amount: 6.609855

Manual Integration Results



Reviewer: michalej, 03-Oct-2011 23:51:34

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-33781/5
Matrix: Water Lab File ID: 21_24270.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 19:08
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		1.0	0.22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24270.D
Lims ID: MB Client ID:
Inject. Date: 03-Oct-2011 19:08:47 Dil. Factor: 1.0000
Sample Type: MB
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 5
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:01:37 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 19:22:56

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags

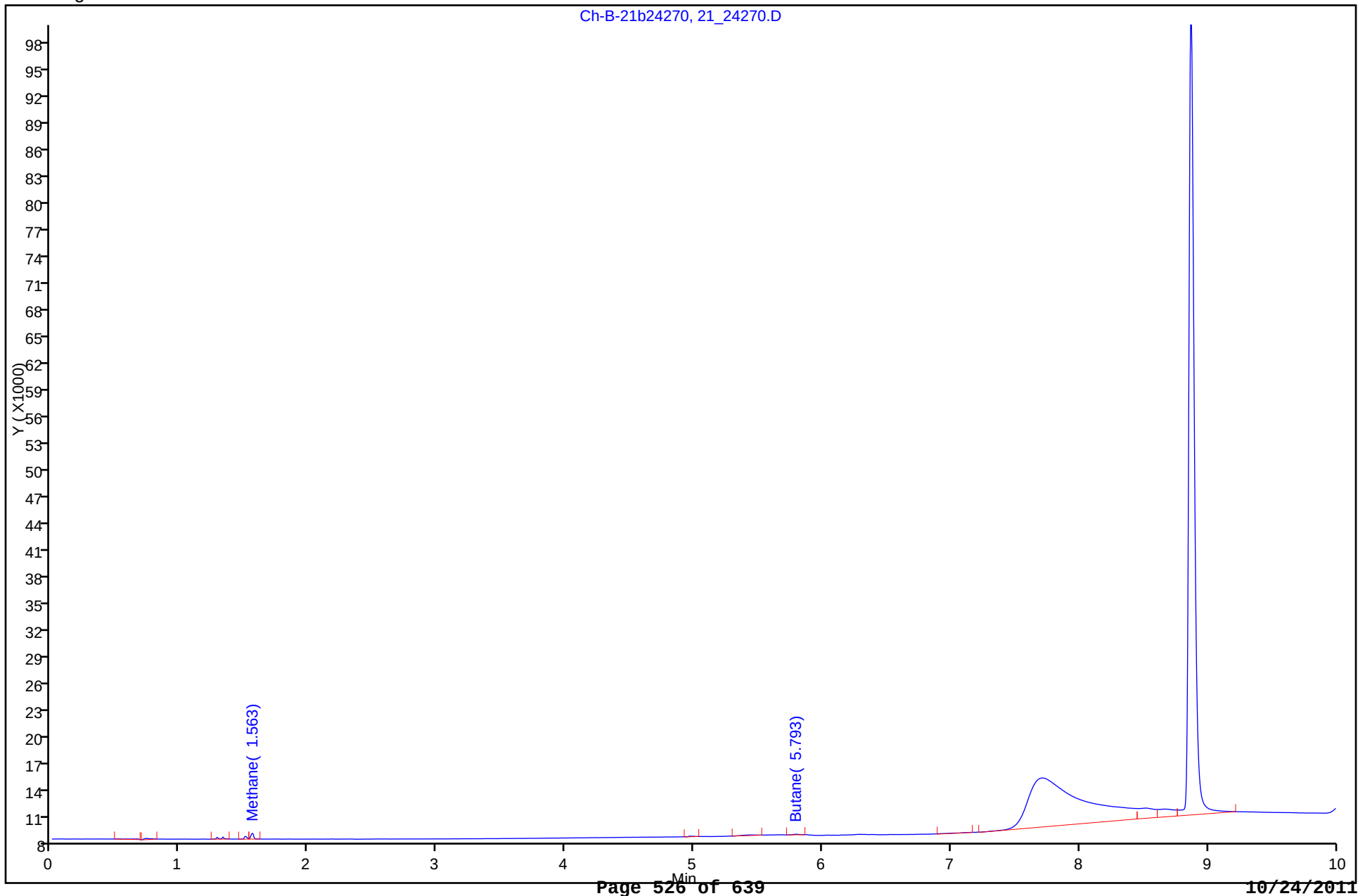
4 Methane

2 1.563 1.560 0.003 975 -3.02

6 Butane

2 5.793 5.803 -0.010 196 -3.48

Report Date: 03-Oct-2011 19:22:56 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24270.D
Injection Date: 03-Oct-2011 19:08:47 Limit Group: GC - RSK175 ICAL
Client ID: Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 5
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-33781/6
Matrix: Water Lab File ID: 21_24271.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 19:22
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	6.99		1.0	0.22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24271.D
Lims ID: LCS Client ID:
Inject. Date: 03-Oct-2011 19:22:36 Dil. Factor: 1.0000
Sample Type: LCS
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 6
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 19:58:36 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date:

03-Oct-2011 19:58:36

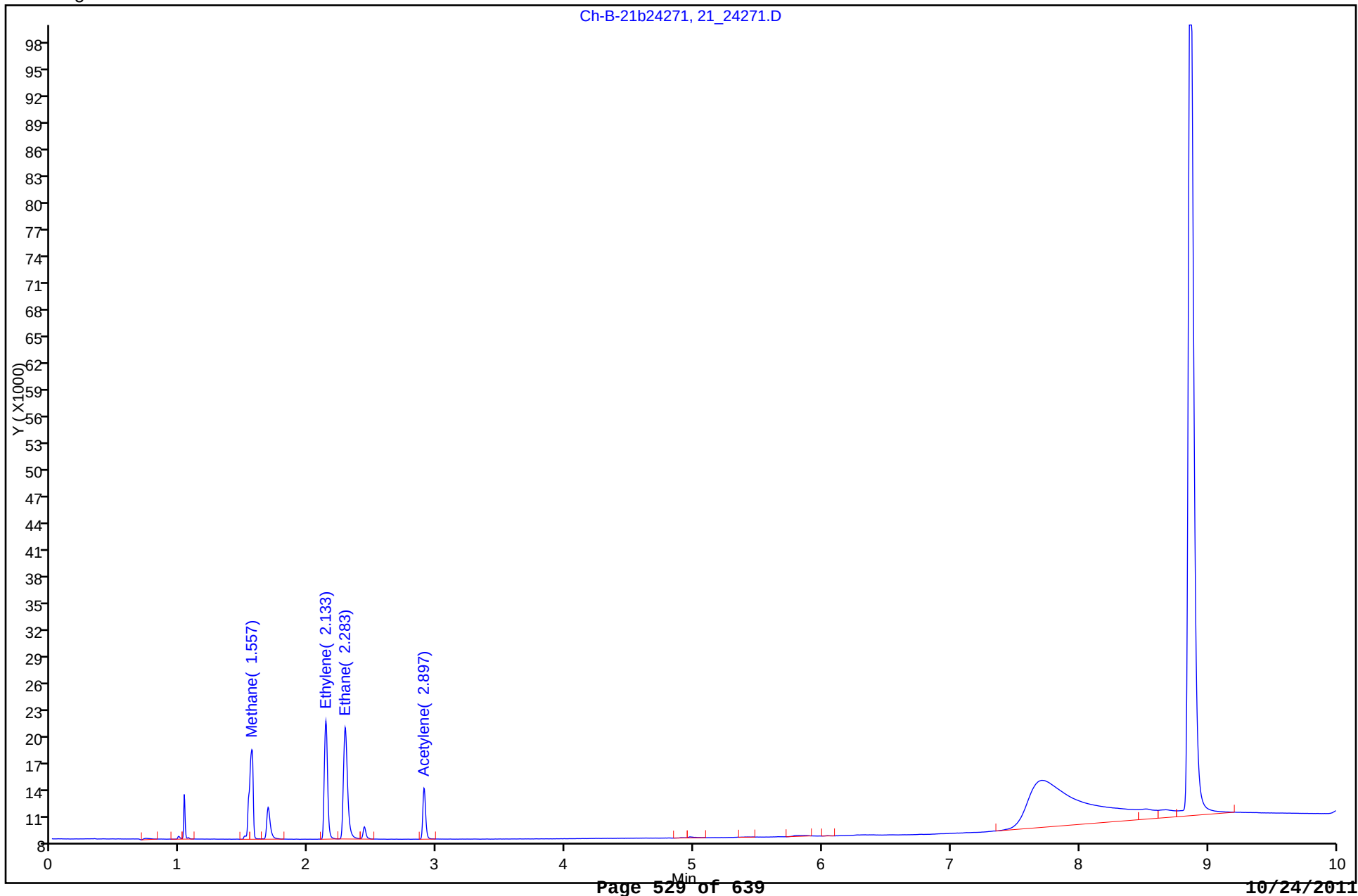
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						M
2 1.557	1.560	-0.003		16309	6.99	M
3 Ethylene						
2 2.133	2.130	0.003		23837	12.6	
2 Ethane						
2 2.283	2.280	0.003		28373	13.4	
1 Acetylene						
2 2.897	2.890	0.007		8802	12.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 03-Oct-2011 19:58:36 Chrom Revision: 2.0 01-Sep-2011 14:10:00
Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24271.D
Injection Date: 03-Oct-2011 19:22:36 Limit Group: GC - RSK175 ICAL
Client ID: Instrument ID: HP5890-21
Lims Batch ID: 33781 Lims Sample ID: 6
Operator ID: tchrom Injection Vol: 1.00 ul
Column Type: RTX-U-plot Column Dia: 0.32 mm
Y Scaling: Method Defined: Set to Absolute Y Value

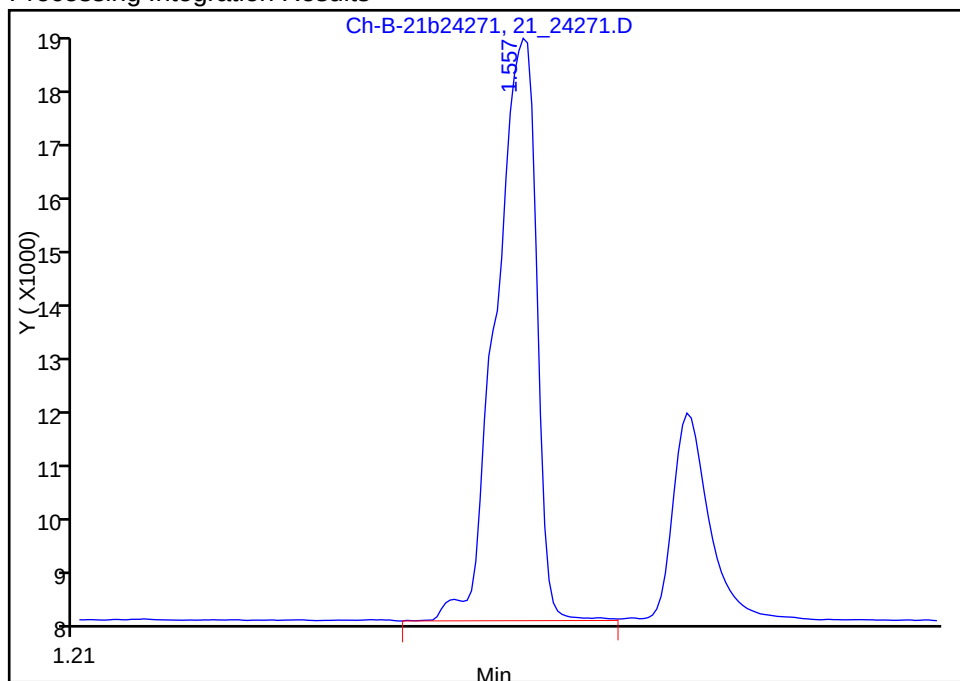


Data File:	\\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24271.D		
Injection Date:	03-Oct-2011 19:22:36	Limit Group:	GC - RSK175 ICAL
Client ID:		Instrument ID:	HP5890-21
Lims Batch ID:	33781	Lims Sample ID:	6
Operator ID:	tchrom	Injection Vol:	1.00 ul
Column Type:	RTX-U-plot	Column Dia:	0.32 mm

4 Methane, Signal: 1, Type: quant, RT: 1.56, Det: Ch-B-21b09074

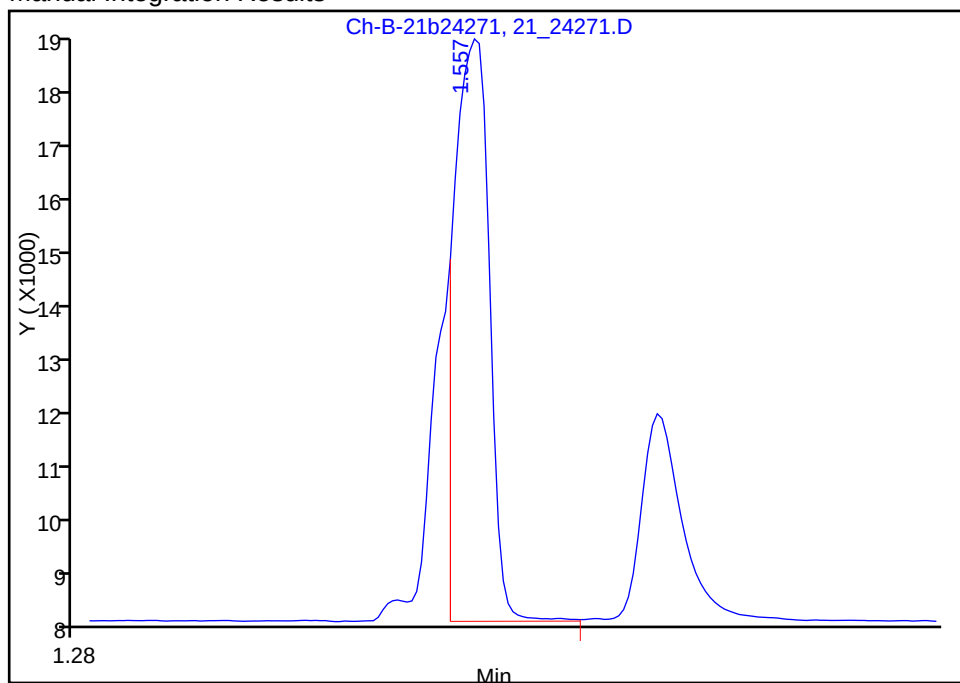
RT: 1.56
Response: 21850
Amount: 10.604978

Processing Integration Results



RT: 1.56
Response: 16309
Amount: 6.989007

Manual Integration Results



Reviewer: michalej, 03-Oct-2011 19:58:36

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason: Split Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 480-33781/15
Matrix: Water Lab File ID: 21_24280.D
Analysis Method: RSK-175 Date Collected: _____
Sample wt/vol: 1(mL) Date Analyzed: 10/03/2011 21:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX-U Plot ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 33781 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	5.37		1.0	0.22

TestAmerica Laboratories
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24280.D
Lims ID: lcsd Client ID:
Inject. Date: 03-Oct-2011 21:49:56 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID: #:
Misc. Info.:
Operator: tchrom Instrument ID: HP5890-21
Vol. Injected: 1.0000 ALS Bottle#: 0
Lims Batch ID: 33781 Lims Sample ID: 15
Detector 1 : Ch-A-21a09074
Detector 2 : Ch-B-21b09074
Method: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\RSK-175.m
Last Update: 03-Oct-2011 23:51:34 Calib Date: 21-Sep-2011 00:32:00
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP5890-21\20110920-6104.b\21_23246.D
Limit Group: GC - RSK175 ICAL
Integrator: Falcon
Process Host: CORP-CTX-19

First Level Reviewer: michalej

Date: 04-Oct-2011 18:47:13

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ug/l	Flags
4 Methane						
2	1.560	1.560	0.000	13833	5.37	
3 Ethylene						
2	2.130	2.130	0.000	22187	11.4	
2 Ethane						
2	2.280	2.280	0.000	25608	11.7	
1 Acetylene						
2	2.890	2.890	0.000	8410	12.0	

Report Date: 04-Oct-2011 18:47:14

Chrom Revision: 2.0 01-Sep-2011 14:10:00

Data File: \\Bufchrom\ChromData\HP5890-21\20111003-6412.b\21_24280.D

Injection Date: 03-Oct-2011 21:49:56

Limit Group: GC - RSK175 ICAL

Client ID:

Instrument ID: HP5890-21

Lims Batch ID: 33781

Lims Sample ID: 15

Operator ID: tchrom

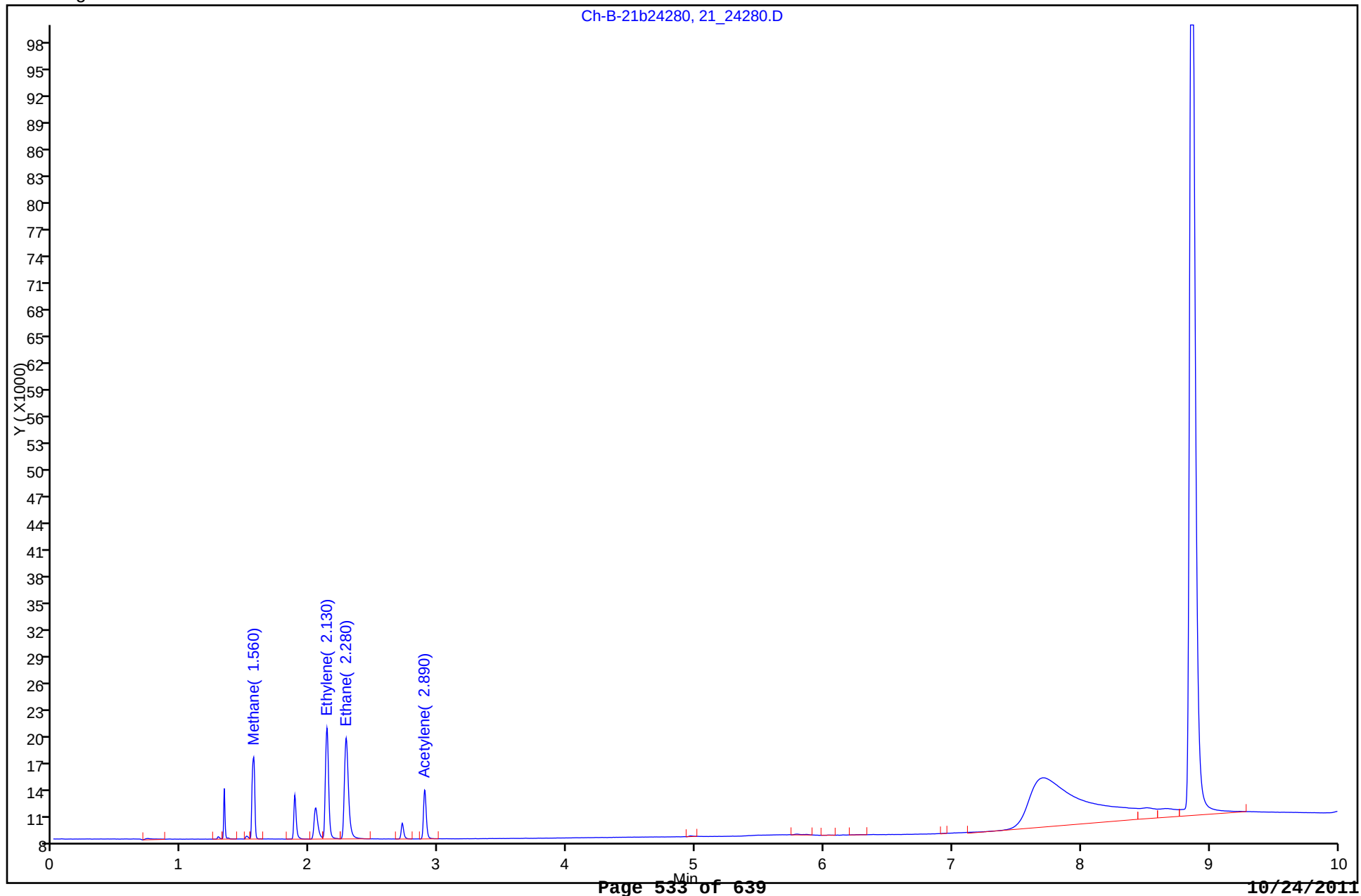
Injection Vol: 1.00 ul

Column Type: RTX-U-plot

Column Dia: 0.32 mm

Y Scaling: Method Defined: Set to Absolute Y Value

Ch-B-21b24280, 21_24280.D



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5890-21 Start Date: 09/20/2011 19:31Analysis Batch Number: 32062 End Date: 09/21/2011 00:45

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD1 480-32062/1 IC		09/20/2011 19:31	1	21_23230.D	RTX-U Plot 0.32 (mm)
STD2 480-32062/2 IC		09/20/2011 19:45	1	21_23231.D	RTX-U Plot 0.32 (mm)
STD3 480-32062/3 IC		09/20/2011 19:59	1	21_23232.D	RTX-U Plot 0.32 (mm)
STD4 480-32062/4 IC		09/20/2011 20:13	1	21_23233.D	RTX-U Plot 0.32 (mm)
STD5 480-32062/5 IC		09/20/2011 20:27	1	21_23234.D	RTX-U Plot 0.32 (mm)
STD6 480-32062/6 IC		09/20/2011 20:41	1	21_23235.D	RTX-U Plot 0.32 (mm)
STD7 480-32062/7 IC		09/20/2011 20:56	1	21_23236.D	RTX-U Plot 0.32 (mm)
STD8 480-32062/8 IC		09/20/2011 21:39	1	21_23238.D	RTX-U Plot 0.32 (mm)
ZZZZZ		09/20/2011 21:53	1		RTX-U Plot 0.32 (mm)
STD9 480-32062/10 IC		09/20/2011 22:50	1		RTX-U Plot 0.32 (mm)
STD10 480-32062/11 IC		09/20/2011 23:04	1		RTX-U Plot 0.32 (mm)
STD11 480-32062/12 IC		09/20/2011 23:18	1		RTX-U Plot 0.32 (mm)
STD12 480-32062/13 IC		09/20/2011 23:32	1		RTX-U Plot 0.32 (mm)
STD13 480-32062/14 IC		09/20/2011 23:46	1		RTX-U Plot 0.32 (mm)
STD14 480-32062/16 IC		09/21/2011 00:00	1		RTX-U Plot 0.32 (mm)
STD15 480-32062/17 IC		09/21/2011 00:32	1		RTX-U Plot 0.32 (mm)
ZZZZZ		09/21/2011 00:45	1		RTX-U Plot 0.32 (mm)

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: HP5890-21 Start Date: 10/03/2011 18:43Analysis Batch Number: 33781 End Date: 10/03/2011 23:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-33781/4		10/03/2011 18:43	1	21_24269.D	RTX-U Plot 0.32 (mm)
MB 480-33781/5		10/03/2011 19:08	1	21_24270.D	RTX-U Plot 0.32 (mm)
LCS 480-33781/6		10/03/2011 19:22	1	21_24271.D	RTX-U Plot 0.32 (mm)
480-10504-2	A2-PZ1	10/03/2011 19:49	100	21_24272.D	RTX-U Plot 0.32 (mm)
480-10504-7	A1-PZ2	10/03/2011 20:03	100	21_24273.D	RTX-U Plot 0.32 (mm)
480-10504-9	PZ-13R	10/03/2011 20:17	10	21_24274.D	RTX-U Plot 0.32 (mm)
480-10504-12	MW-1	10/03/2011 20:30	1	21_24275.D	RTX-U Plot 0.32 (mm)
480-10504-13	MW-3	10/03/2011 20:44	1	21_24276.D	RTX-U Plot 0.32 (mm)
480-10504-20	MW-10	10/03/2011 20:58	10	21_24277.D	RTX-U Plot 0.32 (mm)
480-10504-22	DUP-092811	10/03/2011 21:12	10	21_24278.D	RTX-U Plot 0.32 (mm)
LCSD 480-33781/15		10/03/2011 21:49	1	21_24280.D	RTX-U Plot 0.32 (mm)
CCV 480-33781/16		10/03/2011 23:39	1	21_25002.D	RTX-U Plot 0.32 (mm)

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1

SDG No.: _____

Project: Lockheed Martin Corporation

Client Sample ID	Lab Sample ID
A2-PZ1	480-10504-2
A1-PZ2	480-10504-7
PZ-13R	480-10504-9
MW-1	480-10504-12
MW-3	480-10504-13
MW-10	480-10504-20
DUP-092811	480-10504-22
PZ-13R	480-10504-23

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG ID.:

Matrix: Water

Date Sampled: 09/26/2011 15:40

Reporting Basis: WET

Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.050	0.011	mg/L		H	1	353.2
14808-79-8	Sulfate	36.2	10.0	3.0	mg/L		B	2	D516-90, 02
	Alkalinity, Total	482	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG ID.:

Matrix: Water

Date Sampled: 09/27/2011 12:05

Reporting Basis: WET

Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.050	0.011	mg/L		H	1	353.2
14808-79-8	Sulfate	2.4	5.0	1.5	mg/L	J	B	1	D516-90, 02
	Alkalinity, Total	425	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG ID.:

Matrix: Water

Date Sampled: 09/27/2011 12:55

Reporting Basis: WET

Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14808-79-8	Sulfate	42.1	25.0	7.5	mg/L		B	5	D516-90, 02
	Alkalinity, Total	390	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG ID.:

Matrix: Water

Date Sampled: 09/28/2011 14:55

Reporting Basis: WET

Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.73	0.050	0.011	mg/L		H	1	353.2
14808-79-8	Sulfate	166	25.0	7.5	mg/L		B	5	D516-90, 02
	Alkalinity, Total	338	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-3 Lab Sample ID: 480-10504-13
Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG ID.: _____
Matrix: Water Date Sampled: 09/28/2011 16:55
Reporting Basis: WET Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.091	0.050	0.011	mg/L		H	1	353.2
14808-79-8	Sulfate	160	25.0	7.5	mg/L		B	5	D516-90, 02
	Alkalinity, Total	356	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: MW-10 Lab Sample ID: 480-10504-20
Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG ID.: _____
Matrix: Water Date Sampled: 09/29/2011 12:45
Reporting Basis: WET Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	ND	0.050	0.011	mg/L			1	353.2
14808-79-8	Sulfate	108	25.0	7.5	mg/L		B	5	D516-90, 02
	Alkalinity, Total	211	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: DUP-092811 Lab Sample ID: 480-10504-22
Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG ID.:
Matrix: Water Date Sampled: 09/28/2011 00:00
Reporting Basis: WET Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.76	0.050	0.011	mg/L		H	1	353.2
14808-79-8	Sulfate	167	25.0	7.5	mg/L		B	5	D516-90, 02
	Alkalinity, Total	337	5.0	0.79	mg/L			1	SM 2320B

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-23

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG ID.:

Matrix: Water

Date Sampled: 09/28/2011 16:20

Reporting Basis: WET

Date Received: 09/30/2011 10:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
14797-55-8	Nitrate as N	0.063	0.050	0.011	mg/L		H	1	353.2

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
 SDG No.: _____
 Analyst: PN Batch Start Date: 10/14/2011
 Reporting Units: mg/L Analytical Batch No.: 35511

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
41	CCV	11:34	Sulfate	31.20	30.0	104	90-110		Sulf 30ppm_00004
42	CCB	11:34	Sulfate	1.97				J	
50	CCV	12:07	Sulfate	32.10	30.0	107	90-110		Sulf 30ppm_00004
51	CCB	12:07	Sulfate	2.14				J	
58	CCV	12:17	Sulfate	29.91	30.0	100	90-110		Sulf 30ppm_00004
59	CCB	12:18	Sulfate	1.79				J	
62	CCV	12:20	Sulfate	30.91	30.0	103	90-110		Sulf 30ppm_00004
63	CCB	12:20	Sulfate	1.63				J	
66	CCV	12:43	Sulfate	28.38	30.0	95	90-110		Sulf 30ppm_00004
67	CCB	12:43	Sulfate	1.93				J	
77	CCV	12:57	Sulfate	31.73	30.0	106	90-110		Sulf 30ppm_00004
78	CCB	12:57	Sulfate	2.22				J	
86	CCV	13:41	Sulfate	31.45	30.0	105	90-110		Sulf 30ppm_00004
87	CCB	13:41	Sulfate	2.14				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Analyst: PN Batch Start Date: 10/18/2011
Reporting Units: mg/L Analytical Batch No.: 35987

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
4	CCV	09:05	Sulfate	30.28	30.0	101	90-110		Sulf 30ppm_00005
5	CCB	09:05	Sulfate	2.71				J	
17	CCV	10:20	Sulfate	30.04	30.0	100	90-110		Sulf 30ppm_00005
18	CCB	10:20	Sulfate	2.68				J	
27	CCV	10:33	Sulfate	30.44	30.0	101	90-110		Sulf 30ppm_00005
28	CCB	10:33	Sulfate	2.67				J	

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Analyst: JS Batch Start Date: 10/06/2011
Reporting Units: mg/L Analytical Batch No.: 34365

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
27	CCV	17:26	Alkalinity, Total	94.90	100	95	90-110		WC_100ppm Alk 00018
28	CCB	17:32	Alkalinity, Total	ND					
39	CCV	19:08	Alkalinity, Total	97.89	100	98	90-110		WC_100ppm Alk 00018
40	CCB	19:14	Alkalinity, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1
SDG No.: _____
Analyst: JS Batch Start Date: 10/07/2011
Reporting Units: mg/L Analytical Batch No.: 34618

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
3	CCV	14:41	Alkalinity, Total	93.87	100	94	90-110		WC_100ppm Alk 00018
4	CCB	14:47	Alkalinity, Total	ND					
15	CCV	16:08	Alkalinity, Total	93.50	100	94	90-110		WC_100ppm Alk 00018
16	CCB	16:14	Alkalinity, Total	ND					
27	CCV	17:51	Alkalinity, Total	93.69	100	94	90-110		WC_100ppm Alk 00018
28	CCB	17:57	Alkalinity, Total	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo

Job No.: 480-10504-1

SDG No.: _____

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 35511 Date: 10/14/2011 12:05 D516-90, MB 480-35511/44 02		Sulfate	1.85	J	mg/L	5.0	1
Batch ID: 35511 Date: 10/14/2011 13:38 D516-90, MB 480-35511/80 02		Sulfate	2.01	J	mg/L	5.0	1
Batch ID: 35987 Date: 10/18/2011 10:14 D516-90, MB 480-35987/7 02		Sulfate	2.68	J	mg/L	5.0	1
Batch ID: 34365 Date: 10/06/2011 17:37 SM 2320B MB 480-34365/29		Alkalinity, Total	ND		mg/L	5.0	1
Batch ID: 34618 Date: 10/07/2011 14:53 SM 2320B MB 480-34618/5		Alkalinity, Total	ND		mg/L	5.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 34365 Date: 10/06/2011 18:41											
SM	480-10504-9	Alkalinity, Total	390		mg/L						
2320B											
SM	480-10504-9	Alkalinity, Total	394.7		mg/L	100	5	22-128			F
2320B	MS										

Calculations are performed before rounding to avoid round-off errors in calculated results.

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Matrix: Water

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 34365 Date: 10/06/2011 19:00								
SM 2320B	A1-PZ2	480-10504-7	Alkalinity, Total	425	mg/L			
SM 2320B	A1-PZ2	480-10504-7 DU	Alkalinity, Total	437.4	mg/L	3	20	

Calculations are performed before rounding to avoid round-off errors in calculated results.

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 35511 Date: 10/14/2011 12:05											
						LCS Source: Sulf 30ppm_00004					
D516-90 , 02	LCS 480-35511/43	Sulfate	31.03		mg/L	30.0	103	90-110			
Batch ID: 35511 Date: 10/14/2011 13:38											
						LCS Source: Sulf 30ppm_00004					
D516-90 , 02	LCS 480-35511/79	Sulfate	31.40		mg/L	30.0	105	90-110			
Batch ID: 35987 Date: 10/18/2011 10:14											
						LCS Source: Sulf 30ppm_00005					
D516-90 , 02	LCS 480-35987/6	Sulfate	30.62		mg/L	30.0	102	90-110			
Batch ID: 34365 Date: 10/06/2011 17:46											
						LCS Source: WC_100ppm Alk_00018					
SM 2320B	LCS 480-34365/30	Alkalinity, Total	94.05		mg/L	100	94	90-110			
Batch ID: 34618 Date: 10/07/2011 15:01											
						LCS Source: WC_100ppm Alk_00018					
SM 2320B	LCS 480-34618/6	Alkalinity, Total	93.57		mg/L	100	94	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 MDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Nitrate as N		0.05	0.011

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: LACHAT2
Method: 353.2 XMDL Date: 01/16/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Nitrate as N		0.05	0.011

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: KONE1
Method: D516-90, 02 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: KONE1
Method: D516-90, 02 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: KONE3
Method: D516-90, 02 MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Sulfate		5	1.5

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: KONE3
Method: D516-90, 02 XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Sulfate		5	1.5

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: PC_Titrator
Method: SM 2320B MDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	RL (mg/L)	MDL (mg/L)
Alkalinity, Total		5	0.79

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-10504-1
SDG Number: _____
Matrix: Water Instrument ID: PC_Titrator
Method: SM 2320B XMDL Date: 01/07/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (mg/L)
Alkalinity, Total		5	0.79

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: LACHAT2 Method: 353.2

Start Date: 09/30/2011 23:37 End Date: 10/01/2011 00:19

Lab Sample ID	D / F	T y p e	Time	Analytes															
				N O 3															
ZZZZZZ			23:37																
ZZZZZZ			23:38																
ZZZZZZ			23:39																
ZZZZZZ			23:40																
ZZZZZZ			23:41																
ZZZZZZ			23:42																
480-10504-2	1	T	23:43	X															
480-10504-7	1	T	23:44	X															
480-10504-12	1	T	23:46	X															
480-10504-13	1	T	23:47	X															
480-10504-20	1	T	23:48	X															
480-10504-22	1	T	23:49	X															
480-10504-23	1	T	23:50	X															
ZZZZZZ			23:51																
ZZZZZZ			23:52																
ZZZZZZ			23:53																
ZZZZZZ			23:55																
ZZZZZZ			23:56																
ZZZZZZ			23:57																
ZZZZZZ			23:58																
ZZZZZZ			23:59																
ZZZZZZ			00:00																
ZZZZZZ			00:01																
ZZZZZZ			00:02																
ZZZZZZ			00:04																
ZZZZZZ			00:05																
ZZZZZZ			00:06																
ZZZZZZ			00:07																
ZZZZZZ			00:08																
ZZZZZZ			00:09																
ZZZZZZ			00:10																
ZZZZZZ			00:11																
ZZZZZZ			00:13																
ZZZZZZ			00:14																
ZZZZZZ			00:15																
ZZZZZZ			00:16																
ZZZZZZ			00:17																
ZZZZZZ			00:18																
ZZZZZZ			00:19																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE1 Method: D516-90, 02

Start Date: 10/18/2011 09:03 End Date: 10/18/2011 14:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
CCV 480-35987/1			09:03																
CCB 480-35987/2			09:03																
ZZZZZZ			09:03																
CCV 480-35987/4	1		09:05	X															
CCB 480-35987/5	1		09:05	X															
LCS 480-35987/6	1	T	10:14	X															
MB 480-35987/7	1	T	10:14	X															
ZZZZZZ			10:14																
ZZZZZZ			10:14																
ZZZZZZ			10:14																
ZZZZZZ			10:14																
ZZZZZZ			10:16																
ZZZZZZ			10:18																
ZZZZZZ			10:18																
ZZZZZZ			10:18																
ZZZZZZ			10:18																
CCV 480-35987/17	1		10:20	X															
CCB 480-35987/18	1		10:20	X															
ZZZZZZ			10:30																
ZZZZZZ			10:30																
480-10504-13	5	T	10:30	X															
480-10504-22	5	T	10:30	X															
480-10504-20	5	T	10:30	X															
ZZZZZZ			10:30																
ZZZZZZ			10:30																
480-10504-12	5	T	10:33	X															
CCV 480-35987/27	1		10:33	X															
CCB 480-35987/28	1		10:33	X															
ZZZZZZ			10:44																
ZZZZZZ			10:48																
ZZZZZZ			10:48																
ZZZZZZ			10:48																
ZZZZZZ			10:48																
ZZZZZZ			10:48																
ZZZZZZ			10:48																
CCV 480-35987/36			10:48																
CCB 480-35987/37			10:48																
ZZZZZZ			10:50																
CCV 480-35987/39			11:02																
CCB 480-35987/40			11:02																
ZZZZZZ			11:05																
ZZZZZZ			11:06																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE1 Method: D516-90, 02

Start Date: 10/18/2011 09:03 End Date: 10/18/2011 14:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
ZZZZZZ			11:06																
ZZZZZZ			11:06																
ZZZZZZ			11:06																
CCV 480-35987/46			11:06																
CCB 480-35987/47			11:06																
ZZZZZZ			11:08																
ZZZZZZ			11:08																
ZZZZZZ			11:09																
ZZZZZZ			11:09																
ZZZZZZ			11:09																
ZZZZZZ			11:11																
ZZZZZZ			11:16																
ZZZZZZ			11:16																
CCV 480-35987/56			11:22																
CCB 480-35987/57			11:22																
ZZZZZZ			11:22																
ZZZZZZ			11:22																
CCV 480-35987/60			11:27																
CCB 480-35987/61			11:27																
ZZZZZZ			12:53																
ZZZZZZ			12:53																
ZZZZZZ			12:53																
ZZZZZZ			12:59																
ZZZZZZ			12:59																
ZZZZZZ			12:59																
ZZZZZZ			13:04																
ZZZZZZ			13:04																
ZZZZZZ			13:04																
ZZZZZZ			13:04																
CCV 480-35987/72			13:04																
CCB 480-35987/73			13:04																
ZZZZZZ			13:20																
ZZZZZZ			13:20																
ZZZZZZ			13:20																
ZZZZZZ			13:21																
ZZZZZZ			13:21																
ZZZZZZ			13:21																
ZZZZZZ			13:23																
ZZZZZZ			13:23																
CCV 480-35987/82			13:28																
CCB 480-35987/83			13:29																
ZZZZZZ			13:33																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE1 Method: D516-90, 02

Start Date: 10/18/2011 09:03 End Date: 10/18/2011 14:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
ZZZZZZ			13:39																
ZZZZZZ			13:39																
ZZZZZZ			13:41																
ZZZZZZ			13:41																
ZZZZZZ			13:46																
ZZZZZZ			13:50																
CCV 480-35987/91			13:51																
CCB 480-35987/92			13:51																
ZZZZZZ			13:51																
ZZZZZZ			13:51																
ZZZZZZ			13:51																
ZZZZZZ			13:51																
ZZZZZZ			13:51																
ZZZZZZ			13:56																
ZZZZZZ			13:56																
CCV 480-35987/100			13:56																
CCB 480-35987/101			13:56																
ZZZZZZ			13:56																
ZZZZZZ			13:56																
ZZZZZZ			13:57																
ZZZZZZ			14:02																
ZZZZZZ			14:02																
ZZZZZZ			14:09																
CCV 480-35987/108			14:30																
CCB 480-35987/109			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
ZZZZZZ			14:30																
CCV 480-35987/120			14:32																
CCB 480-35987/121			14:32																
ZZZZZZ			14:32																
ZZZZZZ			14:34																
ZZZZZZ			14:34																
ZZZZZZ			14:34																
CCV 480-35987/126			14:45																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE1 Method: D516-90, 02

Start Date: 10/18/2011 09:03 End Date: 10/18/2011 14:45

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
CCB 480-35987/127			14:45																

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE3 Method: D516-90, 02

Start Date: 10/14/2011 05:44 End Date: 10/14/2011 13:41

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
CCV 480-35511/1			05:44																
CCB 480-35511/2			05:44																
ZZZZZZ			05:44																
CCV 480-35511/4			05:48																
CCB 480-35511/5			05:48																
ZZZZZZ			07:31																
ZZZZZZ			07:31																
ZZZZZZ			07:31																
ZZZZZZ			07:31																
ZZZZZZ			07:31																
ZZZZZZ			07:31																
CCV 480-35511/12			08:00																
CCB 480-35511/13			08:00																
ZZZZZZ			10:36																
ZZZZZZ			10:36																
ZZZZZZ			10:36																
ZZZZZZ			10:39																
ZZZZZZ			10:46																
ZZZZZZ			10:46																
ZZZZZZ			10:46																
CCV 480-35511/21			11:00																
CCB 480-35511/22			11:00																
ZZZZZZ			11:19																
ZZZZZZ			11:19																
ZZZZZZ			11:20																
CCV 480-35511/26			11:22																
CCB 480-35511/27			11:22																
ZZZZZZ			11:26																
ZZZZZZ			11:26																
ZZZZZZ			11:26																
ZZZZZZ			11:28																
ZZZZZZ			11:28																
ZZZZZZ			11:30																
ZZZZZZ			11:30																
ZZZZZZ			11:30																
ZZZZZZ			11:30																
CCV 480-35511/37			11:30																
CCB 480-35511/38			11:30																
ZZZZZZ			11:32																
ZZZZZZ			11:32																
CCV 480-35511/41	1		11:34	X															
CCB 480-35511/42	1		11:34	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE3 Method: D516-90, 02

Start Date: 10/14/2011 05:44 End Date: 10/14/2011 13:41

Lab Sample ID	D / F	T y p e	Time	Analytes															
				S O 4															
LCS 480-35511/43	1	T	12:05	X															
MB 480-35511/44	1	T	12:05	X															
ZZZZZZ			12:05																
ZZZZZZ			12:05																
ZZZZZZ			12:05																
ZZZZZZ			12:07																
ZZZZZZ			12:07																
CCV 480-35511/50	1		12:07	X															
CCB 480-35511/51	1		12:07	X															
ZZZZZZ			12:10																
ZZZZZZ			12:10																
ZZZZZZ			12:10																
ZZZZZZ			12:16																
ZZZZZZ			12:16																
ZZZZZZ			12:16																
CCV 480-35511/58	1		12:17	X															
CCB 480-35511/59	1		12:18	X															
ZZZZZZ			12:18																
ZZZZZZ			12:19																
CCV 480-35511/62	1		12:20	X															
CCB 480-35511/63	1		12:20	X															
ZZZZZZ			12:41																
480-10504-2	2	T	12:41	X															
CCV 480-35511/66	1		12:43	X															
CCB 480-35511/67	1		12:43	X															
ZZZZZZ			12:47																
ZZZZZZ			12:49																
ZZZZZZ			12:49																
ZZZZZZ			12:49																
480-10504-7	1	T	12:49	X															
ZZZZZZ			12:49																
ZZZZZZ			12:49																
ZZZZZZ			12:49																
CCV 480-35511/77	1		12:57	X															
CCB 480-35511/78	1		12:57	X															
LCS 480-35511/79	1	T	13:38	X															
MB 480-35511/80	1	T	13:38	X															
ZZZZZZ			13:38																
ZZZZZZ			13:40																
ZZZZZZ			13:40																
480-10504-9	5	T	13:40	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: KONE3 Method: D516-90, 02

Start Date: 10/14/2011 05:44 End Date: 10/14/2011 13:41

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				S O 4																	
ZZZZZZ			13:40																		
CCV 480-35511/86	1		13:41	X																	
CCB 480-35511/87	1		13:41	X																	

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: PC_Titrator Method: SM 2320B

Start Date: 10/06/2011 13:41 End Date: 10/06/2011 19:14

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A l k															
ZZZZZZ			13:41																
ZZZZZZ			13:49																
CCV 480-34365/3			13:57																
CCB 480-34365/4			14:03																
ZZZZZZ			14:08																
ZZZZZZ			14:17																
ZZZZZZ			14:27																
ZZZZZZ			14:37																
ZZZZZZ			14:46																
ZZZZZZ			14:55																
ZZZZZZ			15:05																
ZZZZZZ			15:15																
ZZZZZZ			15:26																
ZZZZZZ			15:37																
CCV 480-34365/15			15:45																
CCB 480-34365/16			15:52																
ZZZZZZ			16:00																
ZZZZZZ			16:11																
ZZZZZZ			16:21																
ZZZZZZ			16:30																
ZZZZZZ			16:38																
ZZZZZZ			16:45																
ZZZZZZ			16:54																
ZZZZZZ			17:02																
ZZZZZZ			17:10																
ZZZZZZ			17:17																
CCV 480-34365/27	1		17:26	X															
CCB 480-34365/28	1		17:32	X															
MB 480-34365/29	1	T	17:37	X															
LCS 480-34365/30	1	T	17:46	X															
ZZZZZZ			17:55																
ZZZZZZ			18:04																
ZZZZZZ			18:13																
480-10504-2	1	T	18:23	X															
480-10504-9	1	T	18:32	X															
480-10504-9 MS	1	T	18:41	X															
480-10504-7	1	T	18:51	X															
480-10504-7 DU	1	T	19:00	X															
CCV 480-34365/39	1		19:08	X															
CCB 480-34365/40	1		19:14	X															

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: PC_Titrator Method: SM 2320B

Start Date: 10/06/2011 13:41 End Date: 10/06/2011 19:14

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: PC_Titrator Method: SM 2320B

Start Date: 10/07/2011 14:25 End Date: 10/07/2011 20:42

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A l k															
ZZZZZZ			14:25																
ZZZZZZ			14:32																
CCV 480-34618/3	1		14:41	X															
CCB 480-34618/4	1		14:47	X															
MB 480-34618/5	1	T	14:53	X															
LCS 480-34618/6	1	T	15:01	X															
ZZZZZZ			15:08																
ZZZZZZ			15:14																
ZZZZZZ			15:21																
ZZZZZZ			15:30																
ZZZZZZ			15:37																
ZZZZZZ			15:45																
ZZZZZZ			15:52																
ZZZZZZ			16:00																
CCV 480-34618/15	1		16:08	X															
CCB 480-34618/16	1		16:14	X															
ZZZZZZ			16:24																
480-10504-22	1	T	16:32	X															
480-10504-12	1	T	16:41	X															
480-10504-13	1	T	16:50	X															
ZZZZZZ			16:59																
ZZZZZZ			17:07																
ZZZZZZ			17:16																
480-10504-20	1	T	17:24	X															
ZZZZZZ			17:33																
ZZZZZZ			17:44																
CCV 480-34618/27	1		17:51	X															
CCB 480-34618/28	1		17:57	X															
ZZZZZZ			18:03																
ZZZZZZ			18:11																
ZZZZZZ			18:26																
ZZZZZZ			18:37																
ZZZZZZ			18:48																
ZZZZZZ			19:00																
ZZZZZZ			19:15																
ZZZZZZ			19:33																
ZZZZZZ			19:43																
ZZZZZZ			19:56																
CCV 480-34618/39			20:04																
CCB 480-34618/40			20:09																
ZZZZZZ			20:18																
ZZZZZZ			20:29																

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Instrument ID: PC_Titrator Method: SM 2320B

Start Date: 10/07/2011 14:25 End Date: 10/07/2011 20:42

Lab Sample ID	D / F	T y p e	Time	Analytes															
				A l k															
CCV 480-34618/43			20:37																
CCB 480-34618/44			20:42																

Prep Types

T = Total/NA

Data Review Coversheet—Wet Chemistry Dept

Analysis: NO₃/NO₂

Method: 353.2

Analyst/Primary Reviewer: RAL

Secondary Reviewer: RLM

Date of Analytical Run: 9/30/11

Date of Primary Review: 10/5/11

Date of Secondary Review: 10 Oct 2011

Prep Batch Number					

Analytical Batch Number	33563, 33564 Pres.	33565, 33566, 33567 NO ₃ /NO ₂	33568, 33562 NO ₂	34145 Not Run	34144 Calc

Criteria for QC	1 st Level	2 nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, $r > \text{or} = 0.995$	yes	✓		
Was Data Imported ☒ Manually Entered ☐ Balance Interface Used ☐	Imp.			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	yes	✓		
Were the ICB, CCB and MB all <RL?	yes	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	yes	✓		
Was there an LCS run with every batch of 20 samples or less?	yes	✓		
Was there a DUP, MS or MSD run with every batch of 20 samples or less?	yes	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	NO	✓		see NCMs
Were all DUP or MSD RPDs within acceptable limits for QC recovery?	yes	✓		
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	yes	✓		
Are dilution factors all present and correct?	yes	✓		
Do all entries match raw data?	yes	✓		
Were there any holding time violations in this batch?	yes	✓		NOTE! The PM and QA Manager must be notified by email <i>immediately</i> of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	yes	✓		
Were any NCMs needed in the batch?				NCM #s: 29647, 29654, 29655, 29656, 29657, 29661, 29662, 29663, 29664, 29665, 29666

Solutions:
Nitrate, Nitrite, Nitrate/Nitrite (Method 353.2)

Nitrate, Nitrate/Nitrite 1000mg/L STD	241326	Exp. 02/08/2012
Nitrate 1000mg/L STD-curve	16255	Exp. 02/08/2012
Nitrite 1000mg/L STD	500	Exp. 04/01/2012
Nitrite 1000mg/L STD-curve	503	Exp. 04/01/2012
Nitrate, Nitrate/Nitrite Int STD	386449	Exp. 10/06/2011
Nitrite Int STD	386450	Exp. 10/06/2011
Ammonium Chloride Buffer	387814	Exp. 10/30/2011
Color Reagent	376690	Exp. 12/22/2011

MS/SD = 1.0mg/L

LCS/CCV = 1.5mg/L

Curves ran (Lachat 2)

Nitrate, Nitrate/Nitrite	09-27-2011
Nitrite	09-27-2011

Original Run Filename: OM_9-30-2011_03-58-43PM.OMN Created: 9/30/2011 3:58:43 PM

Original Run Author's Signature: [Buflachat]

Current Run Filename: OM_9-30-2011_03-58-43PM.OMN Last Modified: 9/30/2011 4:58:36 PM

Current Run Author's Signature: [Buflachat]

Description: Default New Run

33563

Sample	Cup No.	Channel 1			Detection Time
		Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	
NO2	1	1.52	10.6	0.831	9/30/2011@3:59:36 PM
Calibration:		Table/Fig. : 1			
CCV	S9	1.50	10.4	0.819	9/30/2011@4:00:39 PM
Known Conc:		1.50			
CCB	S10	-0.0392	-0.0574	-2.62e-3	9/30/2011@4:01:42 PM
Known Conc:		0.00			
MB	S10	-0.0254	0.0369	2.90e-3	9/30/2011@4:02:45 PM
Known Conc:		0.00			
LCS	S9	1.50	10.5	0.816	9/30/2011@4:03:47 PM
Known Conc:		1.50			
480-10374-D-1	2	1.12	7.87	0.622	9/30/2011@4:04:51 PM
480-10375-C-1	3	-0.0339	-0.0209	-1.98e-3	9/30/2011@4:05:54 PM
480-10375-C-4	4	-0.0371	-0.0430	-3.37e-3	9/30/2011@4:06:58 PM
480-10375-C-5	5	0.0293	0.410	0.0305	9/30/2011@4:08:02 PM
480-10375-C-6	6	-0.0147	0.110	7.19e-3	9/30/2011@4:09:05 PM
480-10375-C-7	7	-0.0251	0.0389	3.25e-3	9/30/2011@4:10:08 PM
480-10375-C-8	8	0.196	1.55	0.121	9/30/2011@4:11:11 PM
480-10375-C-9	9	7.67e-4	0.215	0.0155	9/30/2011@4:12:14 PM
CCV	S9	1.48	10.3	0.796	9/30/2011@4:13:17 PM
Known Conc:		1.50			
CCB	S10	-0.0333	-0.0171	-2.31e-3	9/30/2011@4:14:20 PM
Known Conc:		0.00			
480-10375-C-10	10	-9.86e-3	0.143	9.55e-3	9/30/2011@4:15:23 PM
480-10375-C-11	11	-0.0233	0.0514	4.92e-3	9/30/2011@4:16:26 PM
480-10423-B-1	12	0.370	2.74	0.216	9/30/2011@4:17:28 PM
480-10436-D-1	13	0.0217	0.358	0.0288	9/30/2011@4:18:30 PM
480-10440-B-1^5	14	1.74	12.1	0.934	9/30/2011@4:19:33 PM
480-10440-C-2	15	-0.0731	-0.289	-0.0140	9/30/2011@4:20:35 PM
480-10440-C-3	16	-0.0345	-0.0249	-2.61e-3	9/30/2011@4:21:39 PM
du 480-10440-C-3	17	-0.0241	0.0458	5.10e-3	9/30/2011@4:22:43 PM
ms 480-10440-C-3	18	0.892	6.30	0.495	9/30/2011@4:23:48 PM
480-10440-B-4^2	19	1.45	10.1	0.790	9/30/2011@4:24:51 PM
CCV	S9	1.45	10.1	0.791	9/30/2011@4:25:53 PM
Known Conc:		1.50			
CCB	S10	-0.0304	2.51e-3	2.36e-3	9/30/2011@4:26:56 PM
Known Conc:		0.00			
MB	S10	-0.0273	0.0237	2.70e-3	9/30/2011@4:28:00 PM
Known Conc:		0.00			
LCS	S9	1.48	10.3	0.798	9/30/2011@4:29:02 PM
Known Conc:		1.50			
CCV	S9	1.47	10.2	0.794	9/30/2011@4:30:05 PM
Known Conc:		1.50			
CCB	S10	-0.0379	-0.0483	2.82e-3	9/30/2011@4:31:07 PM
Known Conc:		0.00			
MB	S10	-0.0303	3.46e-3	2.29e-3	9/30/2011@4:32:10 PM
Known Conc:		0.00			
LCS	S9	1.48	10.3	0.794	9/30/2011@4:33:13 PM
Known Conc:		1.50			
480-10440-C-5	20	1.29	9.02	0.701	9/30/2011@4:34:16 PM
480-10440-B-6	21	0.0415	0.494	0.0431	9/30/2011@4:35:20 PM
480-10441-C-1	22	0.0563	0.595	0.0438	9/30/2011@4:36:23 PM
480-10441-C-2	23	-0.0229	0.0537	2.71e-3	9/30/2011@4:37:26 PM
480-10441-C-3	24	-0.0307	9.40e-4	2.28e-3	9/30/2011@4:38:30 PM
480-10441-C-4	25	0.533	3.85	0.302	9/30/2011@4:39:33 PM
480-10441-C-5	26	-0.0316	-5.55e-3	2.02e-3	9/30/2011@4:40:35 PM
480-10441-C-6	27	0.0120	0.292	0.0202	9/30/2011@4:41:38 PM
CCV	S9	1.47	10.3	0.793	9/30/2011@4:42:41 PM
Known Conc:		1.50			

Preserved

NO₂ recovery = 99%

100%

<0.05

<0.05

100%

99%

<0.05

RPD=ND
ms=89%Reject, unnecessary
QC

98%

<0.05

<0.05

99%

98%

CCB	S10	-0.0298	6.81e-3	1.23e-3	9/30/2011@4:43:44 PM
Known Conc:		0.00			
480-10441-C-7	28	0.0433	0.506	0.0383	9/30/2011@4:44:47 PM
du 480-10441-C-7	29	0.0359	0.455	0.0341	9/30/2011@4:45:49 PM
ms 480-10441-C-7	30	0.968	6.81	0.527	9/30/2011@4:46:51 PM
480-10443-E-1	31	-0.0606	-0.203	-0.0210	9/30/2011@4:47:56 PM
sample	32	-0.0620	-0.213	-0.0224	9/30/2011@4:49:00 PM
sample	33	-0.0606	-0.203	-0.0222	9/30/2011@4:50:04 PM
sample	34	-0.0482	-0.119	7.48e-3	9/30/2011@4:51:09 PM
sample	35	-0.0285	0.0154	0.0109	9/30/2011@4:52:12 PM
sample	36	0.171	1.38	0.469	9/30/2011@4:53:15 PM
480-10443-E-1	37	-0.0651	-0.234	-0.0120	9/30/2011@4:54:19 PM

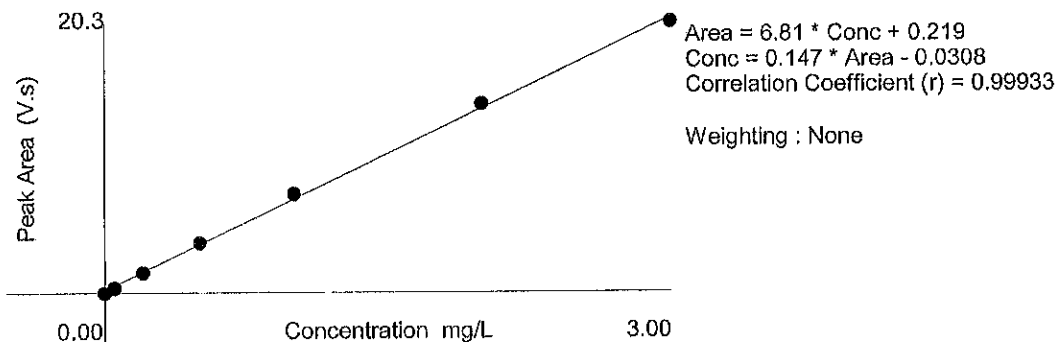
<0.05

RPD=19
MS=92%Reject, no sample
in cup

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	20.3	1.54	0.0	1.8	2.94	9/27/2011	7:15:34 PM
2	2.00	1	14.2	1.11	0.0	-2.4	2.05	9/27/2011	7:16:36 PM
3	1.00	1	7.41	0.590	0.0	-5.3	1.05	9/27/2011	7:17:39 PM
4	0.500	1	3.76	0.301	0.0	-3.6	0.520	9/27/2011	7:18:41 PM
5	0.200	1	1.51	0.120	0.0	4.8	0.190	9/27/2011	7:19:45 PM
6	0.0500	1	0.378	0.0292	0.0	32.4	0.0246	9/27/2011	7:22:50 PM
7	0.00	1	-9.15e-4	-7.07e-4			-0.0309	9/27/2011	7:23:54 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_9-30-2011_05-47-34PM.OMN Created: 9/30/2011 5:47:34 PM

Original Run Author's Signature: [Buflachat]

Current Run Filename: OM_9-30-2011_05-47-34PM.OMN Last Modified: 9/30/2011 6:18:52 PM

Current Run Author's Signature: [Buflachat]

Description: Default New Run

Sample	Cup No.	Channel 1			Detection Time
		Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	
CCV	S9	1.50	10.5	0.829	9/30/2011@5:48:25 PM
Known Conc:		1.50			
CCB	S10	-0.0358	-0.0343	-1.04e-3	9/30/2011@5:49:27 PM
Known Conc:		0.00			
Calibration:		Table/Fig. : 1			
MB	S10	-0.0308	-2.04e-4	-5.22e-4	9/30/2011@5:50:30 PM
Known Conc:		0.00			
LCS	S9	1.49	10.4	0.819	9/30/2011@5:51:32 PM
Known Conc:		1.50			
480-10444-C-1	38	0.670	4.78	0.384	9/30/2011@5:52:35 PM
480-10444-C-2	39	0.0195	0.343	0.0262	9/30/2011@5:53:38 PM
480-10444-C-3	40	-0.0227	0.0553	3.50e-3	9/30/2011@5:54:41 PM
480-10444-C-4	41	8.20e-3	0.266	0.0200	9/30/2011@5:55:43 PM
480-10444-C-5	42	0.0368	0.462	0.0340	9/30/2011@5:56:46 PM
480-10444-C-6	43	0.135	1.13	0.0897	9/30/2011@5:57:48 PM
480-10444-C-7	44	-0.0343	-0.0238	-3.23e-3	9/30/2011@5:58:50 PM
480-10444-C-8	45	-0.0622	-0.214	-0.0105	9/30/2011@5:59:52 PM
CCV	S9	1.47	10.2	0.811	9/30/2011@6:00:55 PM
Known Conc:		1.50			
CCB	S10	-0.0341	-0.0222	-1.09e-3	9/30/2011@6:01:57 PM
Known Conc:		0.00			
480-10444-C-9	46	-7.59e-4	0.205	0.0161	9/30/2011@6:03:02 PM
480-10444-C-10	47	0.0753	0.724	0.0560	9/30/2011@6:04:06 PM
du 480-10444-C-10	48	0.0689	0.680	0.0523	9/30/2011@6:05:10 PM
ms 480-10444-C-10	49	1.22	8.56	0.675	9/30/2011@6:06:13 PM
480-10466-B-1	50	-0.0674	-0.250	-0.0136	9/30/2011@6:07:17 PM
480-10463-A-1	51	0.849	6.01	0.475	9/30/2011@6:08:20 PM
480-10463-A-2	52	0.297	2.23	0.178	9/30/2011@6:09:24 PM
480-10463-A-3	53	0.451	3.29	0.260	9/30/2011@6:10:27 PM
480-10463-A-4	54	2.35	16.2	1.24	9/30/2011@6:11:30 PM
480-10463-A-5	55	3.21	22.1	1.63	9/30/2011@6:12:33 PM
CCV	S9	1.45	10.1	0.789	9/30/2011@6:13:35 PM
Known Conc:		1.50			
CCB	S10	-0.0336	-0.0192	-1.19e-3	9/30/2011@6:14:37 PM
Known Conc:		0.00			
MB	S10	-0.0314	-4.37e-3	-9.49e-4	9/30/2011@6:15:40 PM
Known Conc:		0.00			
LCS	S9	1.46	10.1	0.789	9/30/2011@6:16:42 PM
Known Conc:		1.50			

Preserved

100%

<0.05

<0.05

99%

98%

<0.05

RPD = 9
MS = 114%

97%

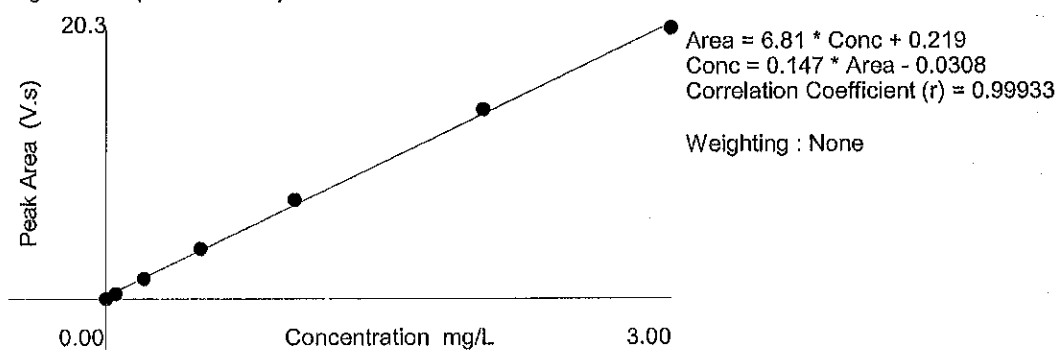
<0.05

Reject, unnecessary QC

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	20.3	1.54	0.0	1.8	2.94	9/27/2011	7:15:34 PM
2	2.00	1	14.2	1.11	0.0	-2.4	2.05	9/27/2011	7:16:36 PM
3	1.00	1	7.41	0.590	0.0	-5.3	1.05	9/27/2011	7:17:39 PM
4	0.500	1	3.76	0.301	0.0	-3.6	0.520	9/27/2011	7:18:41 PM
5	0.200	1	1.51	0.120	0.0	4.8	0.190	9/27/2011	7:19:45 PM
6	0.0500	1	0.378	0.0292	0.0	32.4	0.0246	9/27/2011	7:22:50 PM
7	0.00	1	-9.15e-4	-7.07e-4			-0.0309	9/27/2011	7:23:54 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_9-30-2011_08-07-32PM.OMN Created: 9/30/2011 8:07:32 PM

Original Run Author's Signature: [Buflachat]

Current Run Filename: OM_9-30-2011_08-07-32PM.OMN Last Modified: 9/30/2011 9:30:02 PM

Current Run Author's Signature: [Buflachat]

Description: Default New Run

Unpres.
33565

Sample	Cup No.	Channel 1			Detection Time
		Nitrate/Nitrite Conc. (mg/L)	Area (V.s)	Height (V)	
Sample 1 NO ₂	1	1.55	10.8	0.837	9/30/2011@8:08:25 PM
CCV	S9	1.51	10.5	0.819	9/30/2011@8:09:27 PM
Known Conc:		1.50			
Calibration:		Table/Fig. : 1			
CCB	S10	-0.0359	-0.0348	-1.67e-3	9/30/2011@8:10:30 PM
Known Conc:		0.00			
MB	S10	-0.0313	-3.09e-3	-1.30e-3	9/30/2011@8:11:32 PM
Known Conc:		0.00			
LCS	S9	1.50	10.5	0.812	9/30/2011@8:12:34 PM
Known Conc:		1.50			
480-10433-d-1	2	-0.0187	0.0828	5.92e-3	9/30/2011@8:13:38 PM
480-10433-d-3	3	-0.0415	-0.0729	-4.35e-3	9/30/2011@8:14:41 PM
480-10495-A-1	4	5.31	36.5	2.34	9/30/2011@8:15:44 PM
480-10499-A-1	5	2.82	19.5	1.44	9/30/2011@8:16:48 PM
480-10499-A-2	6	2.81	19.4	1.44	9/30/2011@8:17:51 PM
480-10501-B-2	7	-7.14e-3	0.161	0.0116	9/30/2011@8:18:54 PM
480-10504-B-2	8	-7.40e-3	0.160	0.0119	9/30/2011@8:19:57 PM
480-10504-B-7	9	-1.54e-3	0.200	0.0138	9/30/2011@8:20:59 PM
CCV	S9	1.48	10.3	0.793	9/30/2011@8:22:02 PM
Known Conc:		1.50			
CCB	S10	-0.0318	-6.60e-3	-1.94e-3	9/30/2011@8:23:04 PM
Known Conc:		0.00			
480-10504-b-12	10	0.730	5.19	0.404	9/30/2011@8:24:07 PM
480-10504-B-13	11	0.0907	0.829	0.0620	9/30/2011@8:25:10 PM
480-10504-B-20	12	-0.0237	0.0487	2.54e-3	9/30/2011@8:26:12 PM
480-10504-B-22	13	0.760	5.39	0.418	9/30/2011@8:27:14 PM
du480-10504-B-22	14	0.756	5.37	0.418	9/30/2011@8:28:16 PM
ms 480-10504-B-22	15	1.68	11.7	0.893	9/30/2011@8:29:18 PM
480-10504-A-23	16	0.0630	0.640	0.0473	9/30/2011@8:30:22 PM
480-10505-E-5	17	-0.0491	-0.125	-6.80e-3	9/30/2011@8:31:25 PM
480-10505-E-11	18	-0.0360	-0.0354	-2.21e-3	9/30/2011@8:32:29 PM
480-10505-E-14	19	0.0335	0.439	0.0310	9/30/2011@8:33:33 PM
CCV	S9	1.47	10.3	0.789	9/30/2011@8:34:35 PM
Known Conc:		1.50			
CCB	S10	-0.0324	-0.0108	-1.30e-3	9/30/2011@8:35:37 PM
Known Conc:		0.00			
MB	S10	-0.0326	-0.0126	-1.27e-3	9/30/2011@8:36:40 PM
Known Conc:		0.00			
LCS	S9	1.47	10.2	0.790	9/30/2011@8:37:42 PM
Known Conc:		1.50			
480-10505-e-16	20	-0.0790	-0.329	-0.0185	9/30/2011@8:38:46 PM
480-10505-E-17	21	2.49	17.2	1.27	9/30/2011@8:39:49 PM
480-10507-I-1	22	-0.0224	0.0573	4.62e-3	9/30/2011@8:40:52 PM
480-10507-I-2^2	23	1.78	12.4	0.939	9/30/2011@8:41:55 PM
480-10507-I-3	24	0.152	1.25	0.0977	9/30/2011@8:42:58 PM
480-10507-G-4	25	0.191	1.51	0.118	9/30/2011@8:44:00 PM
480-10507-I-5	26	1.87	13.0	0.985	9/30/2011@8:45:03 PM
	27	1.84	12.8	0.971	9/30/2011@8:46:06 PM
CCV	S9	1.47	10.2	0.790	9/30/2011@8:47:08 PM
Known Conc:		1.50			
CCB	S10	-0.0332	-0.0162	-1.72e-3	9/30/2011@8:48:11 PM
Known Conc:		0.00			
480-10507-I-7	28	1.92	13.3	1.01	9/30/2011@8:49:13 PM
du 480-10507-I-7	29	1.93	13.4	1.01	9/30/2011@8:50:16 PM
ms 480-10507-I-7	30	2.63	18.2	1.36	9/30/2011@8:51:18 PM
480-10522-I-1	31	0.776	5.51	0.428	9/30/2011@8:52:22 PM
480-10535-D-1	32	7.91	54.2	2.60	9/30/2011@8:53:26 PM
480-10535-D-2	33	8.13	55.7	2.59	9/30/2011@8:54:30 PM

NO₂ recovery = 97%
101%

<0.05

<0.05

100%

99%

<0.05

RPD=0.5
MS=92%

98%

<0.05

<0.05

98%

98%

<0.05

RPD=0.5
MS=71%

RAL 10/5/11

480-10535-D-3	34	-0.0168	0.0953	0.0136	9/30/2011@8:55:33 PM
480-10535-D-4	35	6.95	47.7	2.57	9/30/2011@8:56:38 PM
480-10542-H-1	36	0.0168	0.325	0.0262	9/30/2011@8:57:41 PM
480-10542-H-2	37	-0.0258	0.0342	3.01e-3	9/30/2011@8:58:44 PM
CCV	S9	1.47	10.2	0.786	9/30/2011@8:59:46 PM
Known Conc:		1.50			
CCB	S10	-0.0325	-0.0115	-1.62e-3	9/30/2011@9:00:48 PM
Known Conc:		0.00			
MB	S10	-0.0361	-0.0361	-1.30e-3	9/30/2011@9:01:50 PM
Known Conc:		0.00			
LCS	S9	1.47	10.2	0.787	9/30/2011@9:02:52 PM
Known Conc:		1.50			
480-10542-H-3	38	0.0181	0.334	0.0254	9/30/2011@9:03:55 PM
480-10542-H-4	39	-0.0325	-0.0116	-1.28e-3	9/30/2011@9:04:57 PM
480-10542-H-5	40	-0.0181	0.0868	6.16e-3	9/30/2011@9:05:59 PM
480-10542-H-6	41	-0.0248	0.0407	3.66e-3	9/30/2011@9:07:01 PM
480-10543-H-1	42	0.164	1.33	0.103	9/30/2011@9:08:03 PM
480-10543-H-2	43	0.157	1.28	0.0998	9/30/2011@9:09:05 PM
480-10550-A-1	44	3.19	22.0	1.59	9/30/2011@9:10:07 PM
du 480-10550-A-1	45	3.19	22.0	1.59	9/30/2011@9:11:09 PM
CCV	S9	1.46	10.2	0.779	9/30/2011@9:12:11 PM
Known Conc:		1.50			
CCB	S10	-0.0352	-0.0303	-1.41e-3	9/30/2011@9:13:13 PM
Known Conc:		0.00			
ms 480-10550-A-1	46	3.81	26.2	1.85	9/30/2011@9:14:16 PM
480-10444-C-10	47	-0.0645	-0.230	-0.0192	9/30/2011@9:15:20 PM
du 480-10444-C-10	48	-0.0628	-0.218	-0.0225	9/30/2011@9:16:24 PM
ms 480-10444-C-10	49	-0.0510	-0.138	-0.0102	9/30/2011@9:17:27 PM
480-10456-B-1	50	-0.0574	-0.181	-0.0196	9/30/2011@9:18:30 PM
480-10463-A-1	51	-0.0439	-0.0894	-0.0123	9/30/2011@9:19:34 PM
480-10463-A-2	52	0.0370	0.463	0.0257	9/30/2011@9:20:36 PM
480-10463-A-3	53	0.0348	0.448	0.0232	9/30/2011@9:21:39 PM
480-10463-A-4	54	-2.96e-3	0.190	0.320	9/30/2011@9:22:41 PM
480-10463-A-5	55	-0.0731	-0.288	-0.0173	9/30/2011@9:23:44 PM
CCV	S9	1.49	10.4	0.831	9/30/2011@9:24:46 PM
Known Conc:		1.50			
CCB	S10	-0.0342	-0.0232	-7.37e-4	9/30/2011@9:25:48 PM
Known Conc:		0.00			
MB	S10	-0.0309	-3.50e-4	-6.97e-4	9/30/2011@9:26:50 PM
Known Conc:		0.00			
LCS	S9	1.48	10.3	0.821	9/30/2011@9:27:51 PM
Known Conc:		1.50			

98%

<0.05

<0.05

98%

RPD=0
97%

<0.05

MS=62%

RPD=ND
MS=0%
RAL 10/5/11Reject,
no sample
in cup

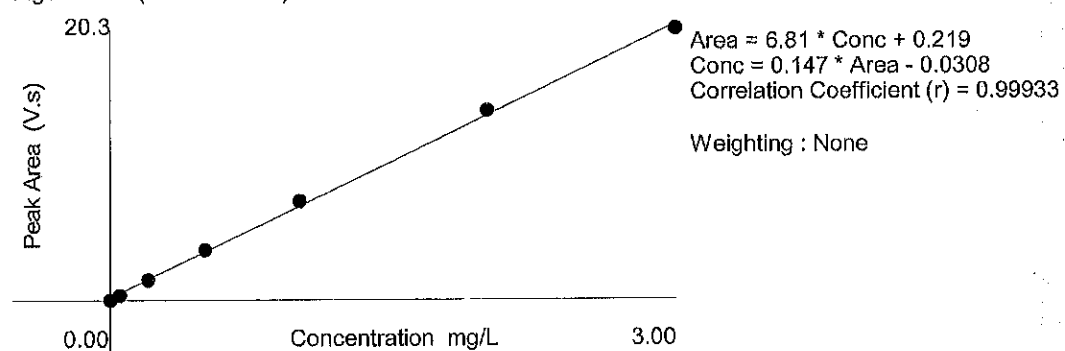
99%

<0.05

Table: 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	20.3	1.54	0.0	1.8	2.94	9/27/2011	7:15:34 PM
2	2.00	1	14.2	1.11	0.0	-2.4	2.05	9/27/2011	7:16:36 PM
3	1.00	1	7.41	0.590	0.0	-5.3	1.05	9/27/2011	7:17:39 PM
4	0.500	1	3.76	0.301	0.0	-3.6	0.520	9/27/2011	7:18:41 PM
5	0.200	1	1.51	0.120	0.0	4.8	0.190	9/27/2011	7:19:45 PM
6	0.0500	1	0.378	0.0292	0.0	32.4	0.0246	9/27/2011	7:22:50 PM
7	0.00	1	-9.15e-4	-7.07e-4			-0.0309	9/27/2011	7:23:54 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_9-30-2011_10-19-42PM.OMN Created: 9/30/2011 10:19:42 PM

Original Run Author's Signature: [BufLachat]

Current Run Filename: OM_9-30-2011_10-19-42PM.OMN Last Modified: 9/30/2011 10:49:54 PM

Current Run Author's Signature: [BufLachat]

Description: Default New Run

33566
Unpres.

RAL 10/5/11

Sample	Cup No.	Channel 1			Detection Time
		Nitrate/Nitrite			
		Conc. (mg/L)	Area (V.s)	Height (V)	
Sample 1 NO ₂	1	1.55	10.8	0.844	9/30/2011@10:20:35 PM
Calibration:		Table/Fig. : 1			
CCV	S9	1.50	10.4	0.820	9/30/2011@10:21:38 PM
Known Conc:		1.50			
CCB	S10	-0.0341	-0.0227	-8.23e-4	9/30/2011@10:22:40 PM
Known Conc:		0.00			
MB	S10	-0.0279	0.0198	1.12e-3	9/30/2011@10:23:42 PM
Known Conc:		0.00			
LCS	S9	1.49	10.4	0.808	9/30/2011@10:24:45 PM
Known Conc:		1.50			
480-10507-I-6	2	1.85	12.8	0.984	9/30/2011@10:25:48 PM
du 480-10507-I-6	3	1.86	12.9	0.987	9/30/2011@10:26:51 PM
ms 480-10507-I-6	4	2.55	17.6	1.32	9/30/2011@10:27:55 PM
480-10495-A-1^5	5	1.68	11.7	0.898	9/30/2011@10:28:57 PM
480-10535-D-1^10	6	0.539	3.89	0.306	9/30/2011@10:30:00 PM
480-10535-D-2^10	7	0.536	3.87	0.303	9/30/2011@10:31:03 PM
480-10535-D-4^10	8	0.288	2.17	0.171	9/30/2011@10:32:06 PM
480-10550-A-1^2	9	1.74	12.1	0.924	9/30/2011@10:33:09 PM
CCV	S9	1.47	10.2	0.792	9/30/2011@10:34:11 PM
Known Conc:		1.50			
CCB	S10	-0.0364	-0.0379	-1.20e-3	9/30/2011@10:35:13 PM
Known Conc:		0.00			
480-10505-E-17	10	2.48	17.1	1.28	9/30/2011@10:36:16 PM
480-10507-I-3	11	0.154	1.26	0.0986	9/30/2011@10:37:18 PM
480-10507-G-4	12	0.140	1.17	0.0912	9/30/2011@10:38:20 PM
480-10543-H-1	13	0.182	1.45	0.105	9/30/2011@10:39:22 PM
480-10543-H-2	14	0.0235	0.371	0.0236	9/30/2011@10:40:23 PM
sample	15	-0.0599	-0.199	-0.0198	9/30/2011@10:41:25 PM
sample	16	-0.0597	-0.197	-0.0192	9/30/2011@10:42:29 PM
sample	17	-0.0597	-0.197	-0.0190	9/30/2011@10:43:33 PM
sample	18	-0.0632	-0.221	-0.0232	9/30/2011@10:44:36 PM
480-10505-E-14	19	-0.0181	0.0869	0.138	9/30/2011@10:45:40 PM
CCV	S9	1.50	10.4	0.832	9/30/2011@10:46:42 PM
Known Conc:		1.50			
CCB	S10	-0.0326	-0.0126	-5.76e-4	9/30/2011@10:47:45 PM
Known Conc:		0.00			

RAL 10/5/11
97%

100%

<0.05

<0.05

99%

RPD = 0.5
MS = 70%, fail

confirmations

98%

<0.05

confirmations

Reject, cup not
sampled
Reject,
no samples

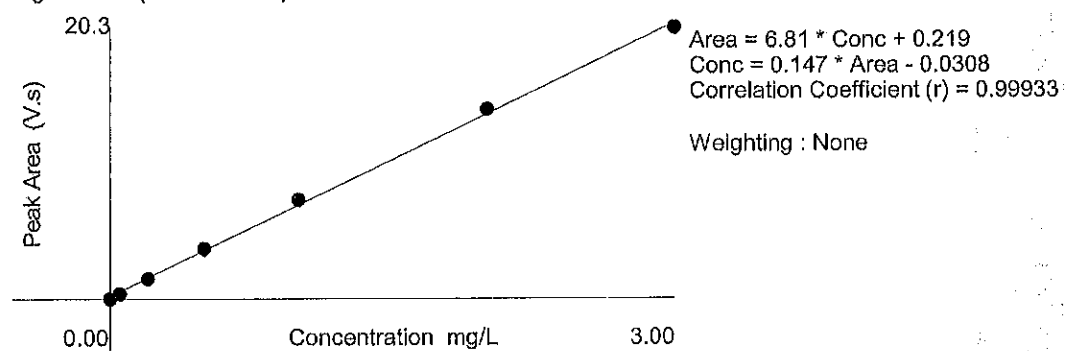
100%

<0.05

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	20.3	1.54	0.0	1.8	2.94	9/27/2011	7:15:34 PM
2	2.00	1	14.2	1.11	0.0	-2.4	2.05	9/27/2011	7:16:36 PM
3	1.00	1	7.41	0.590	0.0	-5.3	1.05	9/27/2011	7:17:39 PM
4	0.500	1	3.76	0.301	0.0	-3.6	0.520	9/27/2011	7:18:41 PM
5	0.200	1	1.51	0.120	0.0	4.8	0.190	9/27/2011	7:19:45 PM
6	0.0500	1	0.378	0.0292	0.0	32.4	0.0246	9/27/2011	7:22:50 PM
7	0.00	1	-9.15e-4	-7.07e-4			-0.0309	9/27/2011	7:23:54 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_9-30-2011_10-53-56PM.OMN Created: 9/30/2011 10:53:56 PM

Original Run Author's Signature: [Buflachat]

Current Run Filename: OM_9-30-2011_10-53-56PM.OMN Last Modified: 9/30/2011 11:03:08 PM

Current Run Author's Signature: [Buflachat]

Description: Default New Run

33567
Unpres.
↓
Confirmation

Sample	Cup No.	Channel 1			Detection Time
		Nitrate/Nitrite	Area (V.s)	Height (V)	
CCV	S9	1.50	10.4	0.813	9/30/2011@10:54:47 PM
Known Conc:		1.50			
CCB	S10	-0.0299	6.26e-3	8.45e-4	9/30/2011@10:55:49 PM
Known Conc:		0.00			
Calibration:		Table/Fig. : 1			
MB	S10	-0.0320	-8.44e-3	-1.16e-3	9/30/2011@10:56:51 PM
Known Conc:		0.00			
LCS	S9	1.48	10.3	0.798	9/30/2011@10:57:53 PM
Known Conc:		1.50			
480-10543-H-2	1	0.162	1.32	0.103	9/30/2011@10:58:56 PM
CCV	S9	1.48	10.3	0.799	9/30/2011@10:59:58 PM
Known Conc:		1.50			
CCB	S10	-0.0319	-7.57e-3	-1.00e-3	9/30/2011@11:01:00 PM
Known Conc:		0.00			

100%

<0.05

<0.05

99%

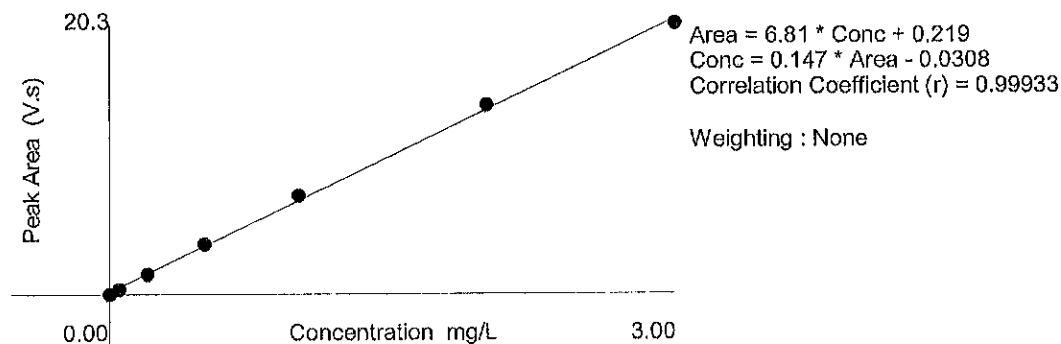
99%

<0.05

Table : 1 (Nitrate/Nitrite)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	20.3	1.54	0.0	1.8	2.94	9/27/2011	7:15:34 PM
2	2.00	1	14.2	1.11	0.0	-2.4	2.05	9/27/2011	7:16:36 PM
3	1.00	1	7.41	0.590	0.0	-5.3	1.05	9/27/2011	7:17:39 PM
4	0.500	1	3.76	0.301	0.0	-3.6	0.520	9/27/2011	7:18:41 PM
5	0.200	1	1.51	0.120	0.0	4.8	0.190	9/27/2011	7:19:45 PM
6	0.0500	1	0.378	0.0292	0.0	32.4	0.0246	9/27/2011	7:22:50 PM
7	0.00	1	-9.15e-4	-7.07e-4			-0.0309	9/27/2011	7:23:54 PM

Figure : 1 (Nitrate/Nitrite)



Original Run Filename: OM_9-30-2011_11-37-02PM.OMN Created: 9/30/2011 11:37:02 PM

Original Run Author's Signature: [BufLachat]

Current Run Filename: OM_9-30-2011_11-37-02PM.OMN Last Modified: 10/1/2011 12:23:53 AM

Current Run Author's Signature: [BufLachat]

Description: Default New Run

33568

Sample	Cup No.	Channel 1 NITRITE			Detection Time
		Conc. (mg/L)	Area (V.s)	Height (V)	
CCV	S9	1.61	11.1	0.956	9/30/2011@11:37:53 PM
Known Conc:		1.50			
Calibration:		Table/Fig. : 1			
CCB	S10	-0.0498	-0.0392	-1.47e-3	9/30/2011@11:38:55 PM
Known Conc:		0.00			
MB	S10	-0.0404	0.0236	1.08e-3	9/30/2011@11:39:58 PM
Known Conc:		0.00			
LCS	S9	1.60	11.0	0.954	9/30/2011@11:41:00 PM
Known Conc:		1.50			
480-10495-A-1	1	-0.0467	-0.0181	-1.54e-3	9/30/2011@11:42:04 PM
480-10499-A-1	2	-0.0404	0.0237	9.49e-4	9/30/2011@11:43:08 PM
480-10499-A-2	3	-0.0403	0.0246	1.13e-3	9/30/2011@11:44:11 PM
du 480-10499-A-2	4	-0.0445	-3.77e-3	2.82e-4	9/30/2011@11:45:15 PM
ms 480-10499-A-2	5	1.07	7.44	0.650	9/30/2011@11:46:18 PM
480-10504-b-12	6	-0.0436	2.36e-3	6.99e-4	9/30/2011@11:47:21 PM
480-10504-B-13	7	-0.0403	0.0242	1.41e-3	9/30/2011@11:48:24 PM
480-10504-B-22	8	-0.0388	0.0347	1.35e-3	9/30/2011@11:49:27 PM
CCV	S9	1.60	11.0	0.956	9/30/2011@11:50:29 PM
Known Conc:		1.50			
CCB	S10	-0.0469	-0.0193	-1.13e-3	9/30/2011@11:51:32 PM
Known Conc:		0.00			
480-10504-A-23	9	-0.0322	0.0788	6.08e-3	9/30/2011@11:52:35 PM
480-10505-E-17	10	0.121	1.10	1.01	9/30/2011@11:53:37 PM
480-10507-I-2	11	-0.0339	0.0674	4.93e-3	9/30/2011@11:54:40 PM
480-10507-I-3	12	-0.0419	0.0137	2.79e-3	9/30/2011@11:55:42 PM
480-10507-G-4	13	0.0829	0.849	0.628	9/30/2011@11:56:44 PM
480-10507-I-5	14	-0.0412	0.0187	1.33e-3	9/30/2011@11:57:46 PM
480-10507-I-6	15	-0.0408	0.0212	1.26e-3	9/30/2011@11:58:48 PM
480-10507-I-7	16	-0.0410	0.0199	9.50e-4	9/30/2011@11:59:52 PM
480-10522-I-1	17	-0.0210	0.154	0.0131	10/1/2011@12:00:56 AM
480-10535-D-1	18	0.0288	0.487	0.0424	10/1/2011@12:02:00 AM
CCV	S9	1.58	10.9	0.948	10/1/2011@12:03:02 AM
Known Conc:		1.50			
CCB	S10	-0.0461	-0.0141	-1.29e-3	10/1/2011@12:04:05 AM
Known Conc:		0.00			
MB	S10	-0.0425	0.0101	9.17e-4	10/1/2011@12:05:08 AM
Known Conc:		0.00			
LCS	S9	1.59	10.9	0.952	10/1/2011@12:06:10 AM
Known Conc:		1.50			
480-10535-D-2	19	0.0369	0.542	0.0470	10/1/2011@12:07:14 AM
480-10535-D-4	20	8.62e-3	0.352	0.0300	10/1/2011@12:08:18 AM
480-10543-H-1	21	-0.0200	0.161	0.0135	10/1/2011@12:09:21 AM
480-10543-H-2	22	-0.0216	0.150	0.0122	10/1/2011@12:10:24 AM
480-10550-A-1	23	-0.0410	0.0199	8.23e-4	10/1/2011@12:11:28 AM
du 480-10550-A-1	24	-0.0416	0.0160	8.59e-4	10/1/2011@12:12:31 AM
ms 480-10550-A-1	25	1.04	7.23	0.635	10/1/2011@12:13:34 AM
480-10505-E-17	26	-0.0403	0.0248	1.64e-3	10/1/2011@12:14:37 AM
CCV	S9	1.59	11.0	0.957	10/1/2011@12:15:39 AM
Known Conc:		1.50			
CCB	S10	-0.0454	-9.65e-3	-4.71e-4	10/1/2011@12:16:42 AM
Known Conc:		0.00			
480-10507-G-4	27	-0.0413	0.0176	1.20e-3	10/1/2011@12:17:44 AM
Sample40	28	0.0829	0.849	0.673	10/1/2011@12:18:47 AM
Sample41	29	-0.110	-0.439	0.488	10/1/2011@12:19:49 AM
CCV	S9	1.59	11.0	0.958	10/1/2011@12:20:51 AM
Known Conc:		1.50			
CCB	S10	-0.0475	-0.0237	-9.21e-4	10/1/2011@12:21:54 AM
Known Conc:		0.00			

107%

<0.05

<0.05

107%

RPD=ND
MS=107%

107%

<0.05

→ cup not sampled

→ cup not sampled

105%

<0.05

<0.05

106%

RPD=ND
MS=104%

106%

<0.05

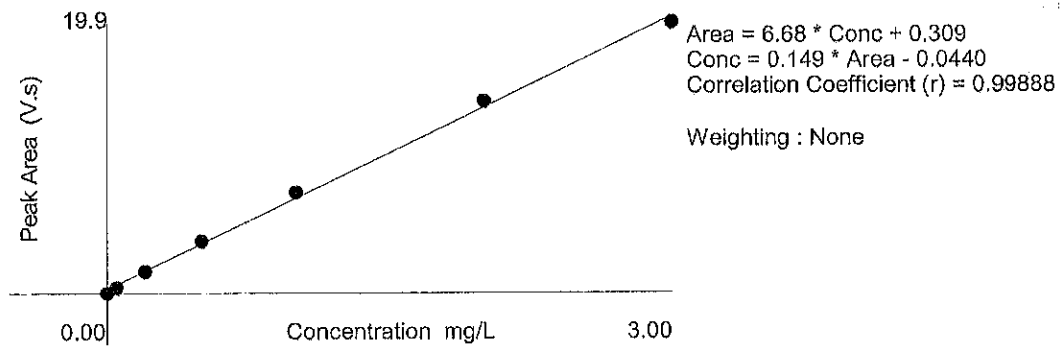
106%

<0.05

Table : 1 (NITRITE)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	19.9	1.68	0.0	2.3	2.93	9/28/2011	12:08:26 AM
2	2.00	1	14.1	1.24	0.0	-3.3	2.06	9/28/2011	12:09:26 AM
3	1.00	1	7.42	0.667	0.0	-6.1	1.06	9/28/2011	12:10:28 AM
4	0.500	1	3.82	0.348	0.0	-4.8	0.527	9/28/2011	12:11:31 AM
5	0.200	1	1.59	0.144	0.0	3.5	0.193	9/28/2011	12:12:34 AM
6	0.0500	1	0.420	0.0363	0.0	34.7	0.0188	9/28/2011	12:13:37 AM
7	0.00	1	-2.26e-4	7.64e-4			-0.0440	9/28/2011	12:14:41 AM

Figure : 1 (NITRITE)



Original Run Filename: OM_10-1-2011_12-28-05AM.OMN Created: 10/1/2011 12:28:05 AM

Original Run Author's Signature: [Buflachat]

Current Run Filename: OM_10-1-2011_12-28-05AM.OMN Last Modified: 10/1/2011 12:41:20 AM

Current Run Author's Signature: [Buflachat]

Description: Default New Run

33562

Sample	Cup No.	Channel 1			Detection Time
		NITRITE			
		Conc. (mg/L)	Area (V.s)	Height (V)	
CCV	S9	1.60	11.0	0.953	10/1/2011@12:28:56 AM
Known Conc:		1.50			
CCB	S10	-0.0455	-0.0103	-1.23e-3	10/1/2011@12:29:58 AM
Known Conc:		0.00			
Calibration:		Table/Fig. : 1			
MB	S10	-0.0452	-7.99e-3	-9.25e-4	10/1/2011@12:31:01 AM
Known Conc:		0.00			
LCS	S9	1.61	11.1	0.963	10/1/2011@12:32:02 AM
Known Conc:		1.50			
480-10505-E-17	1	-0.0386	0.0356	2.98e-3	10/1/2011@12:33:06 AM
480-10507-G-4	2	-0.0419	0.0136	6.86e-4	10/1/2011@12:34:09 AM
sample	3	0.273	2.12	0.983	10/1/2011@12:35:12 AM
sample	4	0.0743	0.792	0.613	10/1/2011@12:36:15 AM
sample	5	-0.0687	-0.165	0.347	10/1/2011@12:37:18 AM
CCV	S9	1.60	11.0	0.964	10/1/2011@12:38:20 AM
Known Conc:		1.50			
CCB	S10	-0.0435	3.30e-3	8.23e-4	10/1/2011@12:39:22 AM
Known Conc:		0.00			

107%

<0.05

<0.05

107%

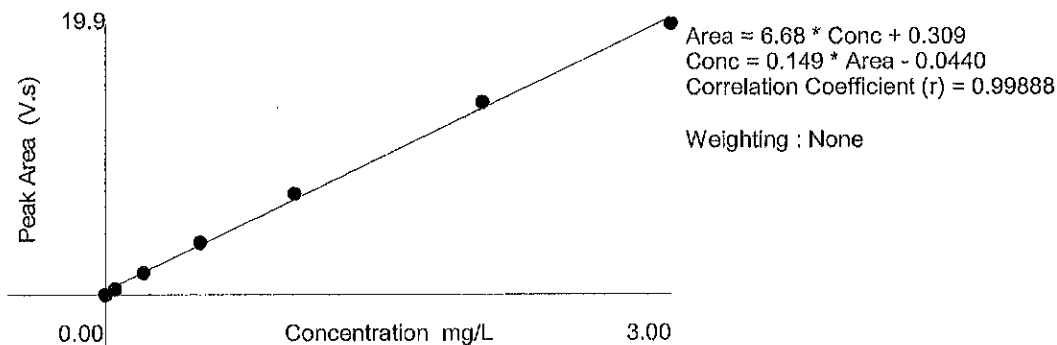
107%

<0.05

Table : 1 (NITRITE)

	Known Conc. (mg/L)	Rep.	Peak Area (V.s)	Peak Height (V)	% RSD	% Residual	Det. Conc (mg/L)	Detection Date	Detection Time
1	3.00	1	19.9	1.68	0.0	2.3	2.93	9/28/2011	12:08:26 AM
2	2.00	1	14.1	1.24	0.0	-3.3	2.06	9/28/2011	12:09:26 AM
3	1.00	1	7.42	0.667	0.0	-6.1	1.06	9/28/2011	12:10:28 AM
4	0.500	1	3.82	0.348	0.0	-4.8	0.527	9/28/2011	12:11:31 AM
5	0.200	1	1.59	0.144	0.0	3.5	0.193	9/28/2011	12:12:34 AM
6	0.0500	1	0.420	0.0363	0.0	34.7	0.0188	9/28/2011	12:13:37 AM
7	0.00	1	-2.26e-4	7.64e-4			-0.0440	9/28/2011	12:14:41 AM

Figure : 1 (NITRITE)



Historical Data Summary Report

For Batch 33563

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-10374-D-1	TANK01	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	1.1	0 - 0.187	0.041 - 0.062
480-10375-C-1	DUP1	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.517	0 - 0.48
480-10375-C-10	LCU01	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.039	0 - 0.036
480-10375-C-11	LCU02	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.616	0 - 0.576
480-10375-C-4	LCD25	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.044	0 - 0.035
480-10375-C-5	LCD27	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	0.029	0 - 0.072	0 - 0.06
480-10375-C-6	LCD28	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.047	0 - 0.036
480-10375-C-7	LCD30	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.107	0 - 0.096
480-10375-C-8	LCD31	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	8	1.0	0.20	0.039 - 0.754	0.136 - 0.66
480-10375-C-9	LCD32	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	6	1.0	ND	0 - 0.131	0 - 0.12
480-10436-D-1	MHOLE	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	0.022	0 - 0	0 - 0
480-10440-B-1 ^5	MW01B	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	5.0	8.7	3.49 - 14.943	7.373 - 11.06
480-10440-B-4 ^2	MW04A	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	2.0	2.9	0 - 7.913	2.675 - 4.012
480-10440-B-6	MW06A	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	0.042	0 - 1.406	0.328 - 0.492
480-10440-C-2	MW02A	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	ND	0 - 0	0 - 0
480-10440-C-3	MW03A	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	ND	0 - 0	0 - 0
480-10440-C-5	MW05A	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	1.3	0.609 - 1.684	0.917 - 1.376
480-10441-C-1	MW01C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	4	1.0	0.056	0 - 0.9	0.038 - 0.692
480-10441-C-2	MW02C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	0 - 0.049	0.007 - 0.011
480-10441-C-3	DUP	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	0 - 0.054	0.008 - 0.012
480-10441-C-4	MW03B	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	4	1.0	0.53	0.313 - 1.543	0.507 - 1.44
480-10441-C-5	MW04BR	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	0 - 0.152	0.037 - 0.056
480-10441-C-6	MW05CR	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	0 - 0.645	0.118 - 0.177
480-10441-C-7	MW06C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	0.043	0 - 0	0 - 0
480-10443-E-1	RISER	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	0 - 0.079	0.012 - 0.018

* Reanalysis scheduled 10/4/11
RAL

10/24/2011

Historical Data Summary Report

For Batch 33564

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
*480-10444-C-1	MW05C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	0.67	☐ 0 - 1.013	☒ 0.237 - 0.355
480-10444-C-10	P-117C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	5	1.0	0.075	☒ 0.004 - 0.059	☒ 0.021 - 0.06
480-10444-C-2	MW07C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	0.020	☒ 0 - 0	☒ 0 - 0
480-10444-C-3	MW08CR	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10444-C-4	MW10C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	4	1.0	ND	☐ 0 - 0.211	☐ 0 - 0.168
*480-10444-C-5	MW11C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	4	1.0	0.037	☒ 0.068 - 0.285	☒ 0.102 - 0.275
480-10444-C-6	MW14C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	7	1.0	0.14	☐ 0 - 0.177	☐ 0.019 - 0.18
480-10444-C-7	P-106C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	☐ 0 - 0.052	☒ 0.008 - 0.012
480-10444-C-8	DUP	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	2	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10444-C-9	P-107C	353.2_Pres	Nitrate-Nitrite	Total/NA	mg/L as	3	1.0	ND	☐ 0 - 0	☐ 0 - 0

* Reanalysis scheduled RAL 10/4/11

Historical Data Summary Report

For Batch 33565

Lab Sample ID	Client Sample	Method	Analyte	Data				Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution	Result	
480-10433-D-3	MW-1	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐ 0-0
480-10505-E-11	MW-32	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐ 0-0
480-10505-E-14	MW-18	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	0.034	☒ 0.144 - 0.216, ND HX
480-10505-E-16	MW-36	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐ 0-0
480-10505-E-17	MW-8	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	2.5	☒ 0.88 - 1.32
480-10505-E-5	MW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐ 0-0
480-10507-G-4	PDG24R	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	0.19	☒ 0.02 - 0.03
480-10507-I-1	02FB	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	ND	☐ 0-0
480-10507-I-2 ^2	PDG15	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	2.0	3.6	☐ 2.88 - 4.32
480-10507-I-3	PDG16	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	0.15	☒ 0.316 - 0.474
480-10507-I-5	PDG24S	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	1.9	☒ 0.988 - 1.482
480-10507-I-7	PDG28	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	1.9	☐ 1.64 - 2.46
480-10542-H-2	MW-11	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	ND	☐ 0-0
480-10542-H-3	MW-3	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	ND	☐ 0-0
480-10542-H-4	MW-5	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	ND	☐ 0-0
480-10542-H-5	MW-9	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	ND	☐ 0-0
480-10542-H-6	TRIP BLANK	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	ND	☐ 0-0
480-10543-H-1	SP-A	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	0.16	☒ 0.364 - 0.546
480-10543-H-2	SP-B	353.2	Nitrate Nitrite as N	Total/NA	mg/L as 2	2	1.0	0.16	☒ 0.36 - 0.54

* Results confirmed RAL 10/5/11

Historical Data Summary Report

For Batch 33566

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data		Result	Fail 3-Sigma Limits	Fail Client Limits
						Points	Dilution			
480-10507-I-6	PDG27	353.2	Nitrate Nitrite as N	Total/NA	mg/L	2	1.0	1.9	☐ 1.6 - 3.1	☐ 1.88 - 2.82

WC Available/Received NO2/NO3 @ 9/30/2011 6:55:07 PM

Login PM	Lab Sample ID	Method Description	Status	Batch	Rush	Method	Basis Description	Prep Chain	2nd Level Due	HT Expires	Date Sampled	SRF	Assigned To	Result History	Alt Sample Matrix
10433 AEB	480-10433-1	Nitrogen, Nitrate-Nitrite	Login	No	No	353.2	Total/NA	10/13/2011	10/13/2011	09/30/11 09:30	09/28/11 08:20			N/D	Water
10433 AEB	480-10433-3	Nitrogen, Nitrate-Nitrite	Login	No	No	353.2	Total/NA	10/13/2011	10/13/2011	09/30/11 09:30	09/28/11 11:30			0.00000,0.00000	Water
10495 DG	480-10495-1	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/11/2011	10/11/2011	10/01/11 15:10	09/29/11 15:10			N/D	Water
10499 DG	480-10499-1	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/11/2011	10/11/2011	10/01/11 20:45	09/29/11 20:45			2.82	Water
10499 DG	480-10499-2	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/11/2011	10/11/2011	10/01/11 20:45	09/29/11 20:45			2.81	Water
10501 DG	480-10501-2	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/11/2011	10/11/2011	10/01/11 18:10	09/29/11 18:10			N/D	Water
10504 CF	480-10504-2	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/28/11 15:40	09/26/11 15:40			N/D	Water
10504 CF	480-10504-7	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/29/11 12:05	09/27/11 12:05			N/D	Water
10504 CF	480-10504-12	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/30/11 14:55	09/28/11 14:55			0.730	Water
10504 CF	480-10504-13	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/30/11 16:55	09/28/11 16:55			0.09	Water
10504 CF	480-10504-20	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	10/01/11 12:45	09/29/11 12:45			N/D	Water
10504 CF	480-10504-22	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/30/11 00:00	09/28/11 00:00			0.76	Water
10504 CF	480-10504-23	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/12/2011	10/12/2011	09/30/11 16:20	09/28/11 16:20			0.063	Water
10505 AEB	480-10505-5	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/14/2011	10/14/2011	10/01/11 09:30	09/29/11 14:55			0.00000,0.00000	Water
SDG Closed	480-10505-11	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/14/2011	10/14/2011	10/01/11 09:30	09/29/11 09:37			0.00000,0.00000	Water
10505 AEB	480-10505-14	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/14/2011	10/14/2011	10/01/11 09:30	09/29/11 08:40			0.00000,0.36000	Water
SDG Closed	480-10505-1	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/14/2011	10/14/2011	10/01/11 09:30	09/29/11 08:40			N/D	Water

WC_Available/Received NO2/NO3 @ 9/30/2011 6:55:07 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Method	Basis Description	2nd Level Due Prep Chain	HT Expires Job Number	Date Sampled SRF	Result History Assigned To	Alt Sample Matrix
10505	480-10505-16 AEB Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/14/2011	10/01/11 09:30 480-J10505-1	09/29/11 14:00	0.00000,0.00000 ND	Water
SDG Closed											
10505	480-10505-17 AEB Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/14/2011	10/01/11 09:30 480-J10505-1	09/29/11 15:55	1.00000,1.20000 2.49	Water
SDG Closed											
10507	480-10507-1 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 13:50 480-J9723-1	09/29/11 13:50	0.00000,0.00000 ND	Water
10507	480-10507-2 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 14:05 480-J9723-1	09/29/11 14:05	3.80000,3.40000 3.56	Ground Water
10507	480-10507-3 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 14:50 480-J9723-1	09/29/11 14:50	0.31000,0.48000 0.152	Ground Water
10507	480-10507-4 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 08:10 480-J9723-1	09/29/11 08:10	0.00000,0.05000 0.191	Ground Water
10507	X 480-10507-5 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 08:00 480-J9723-1	09/29/11 08:00	0.57000,1.90000 1.87	Ground Water
10507	480-10507-6 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 12:10 480-J9723-1	09/29/11 12:10	2.10000,2.60000	Ground Water
10507	480-10507-7 CF Water	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2	Total/NA	10/12/2011	10/01/11 11:55 480-J9723-1	09/29/11 11:55	2.10000,2.00000 1.92	Ground Water
10522	480-10522-1 DG Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/02/11 09:00 480-J10522-1	09/30/11 09:00	0.776	Water
10542	480-10542-1 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 09:08 480-J10542-1	09/29/11 09:08	ND	Monitor Well
10542	480-10542-2 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 08:22 480-J10542-1	09/29/11 08:22	0.00000,0.00000 ND	Monitor Well
10542	480-10542-3 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 09:06 480-J10542-1	09/29/11 09:06	0.00000,0.00000 ND	Monitor Well
10542	480-10542-4 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 07:15 480-J10542-1	09/29/11 07:15	0.00000,0.00000 ND	Monitor Well
10542	480-10542-5 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 09:40 480-J10542-1	09/29/11 09:40	0.00000,0.00000 ND	Monitor Well
10542	480-10542-6 RV Water	Nitrogen, Nitrate-Nitrite Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 07:10 480-J10542-1	09/29/11 07:10	0.00000,0.00000 ND	Water

WC Available/Received: NO2/NO3 @ 9/30/2011 6:55:07 PM

Login PM	Lab Sample ID	Method Description	Status	Batch	Rush	Method	Basis Description	Prep Chain	2nd Level Due	HT Expires	Date Sampled	Assigned To	Result History	Alt Sample Matrix
10543 RV	480-10543-1	Nitrogen, Nitrate-Nitrite	Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 08:05	480-J10543-1	09/29/11 08:05	0.35000, 0.56000	0.164	Surface Water
10543 RV	480-10543-2	Nitrogen, Nitrate-Nitrite	Login	No	No	353.2	Total/NA	10/12/2011	10/01/11 07:50	480-J10543-1	09/29/11 07:50	0.35000, 0.55000	0.157	Surface Water
10550 AEB	480-10550-1	Nitrogen, Nitrate-Nitrite	Ready	No	No	353.2	Total/NA	10/11/2011	09/30/11 22:00	480-J10550-1	09/28/11 22:00	0.35000, 0.55000	0.157	Water

10535-1 → 10X
 -2 → 10X
 -4 → 10X
 500ul → 5mL
 500ul → 5mL
 500ul → 5mL

9/29/11 09:45
 logged in 9/30 17:05
 2X

Renec

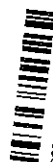
Preserved

WC Available/Received-NO2/NO3 @ 9/29/2011 2:14:18 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Method	Basis Description	Prep Chain	2nd Level Due	HT Expires Job Number	Date Sampled SRF	Assigned To	Result History	Alt Sample Matrix
10374	480-10374-1	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/25/11 23:59 480-J10374-1	09/27/11 08:00	0.00000,0.11000,0.04500	Leachate	
10375	480-10375-1	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 13:25	0.00000	Ground Water	
10375	480-10375-4	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 13:25	0.00000	Ground Water	
10375	480-10375-5	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 16:49	0.00000	Ground Water	
10375	480-10375-6	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 12:29	0.00000	Ground Water	
10375	480-10375-7	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 14:16	0.00000	Ground Water	
10375	480-10375-8	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/25/11 23:59 480-J10375-1	09/27/11 07:30	0.17000	Ground Water	
10375	480-10375-9	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 16:53	0.00000	Ground Water	
10375	480-10375-10	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 14:41	0.00000	Ground Water	
10375	480-10375-11	Nitrogen, Nitrate-Nitrite Ready	No	No	353.2_Pres	Total/NA	10/10/2011	10/10/2011	10/24/11 23:59 480-J10375-1	09/26/11 16:16	0.00000	Ground Water	
10423	480-10423-1	Nitrogen, Nitrate-Nitrite Login	No	Yes	353.2_Pres	Total/NA	10/05/2011	10/05/2011	10/24/11 23:59 480-J10423-1	09/26/11 15:15		Water	
10436	480-10436-1	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/24/11 23:59 480-J10436-1	09/26/11 10:30	0.00000,0.00000	Leachate	
10440	480-10440-1	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/25/11 23:59 480-J10440-1	09/27/11 11:21	11.10000,9.95000,6.60000	Ground Water	in L 9/30/11
10440	480-10440-2	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/24/11 23:59 480-J10440-1	09/26/11 11:28	0.00000,0.00000	Ground Water	5X 9/30/11
10440	480-10440-3	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/24/11 23:59 480-J10440-1	09/26/11 13:18	0.00000,0.00000	Ground Water	
10440	480-10440-4	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/25/11 23:59 480-J10440-1	09/27/11 11:00	5.45000,2.68000,1.90000	Ground Water	2X 9/30/11
10440	480-10440-5	Nitrogen, Nitrate-Nitrite Login	No	No	353.2_Pres	Total/NA	10/11/2011	10/11/2011	10/25/11 23:59 480-J10440-1	09/27/11 12:30	1.02000,1.40000	Ground Water	2.5mL 9/30/11

WC Available/Received-NO3/NO3 @ 9/29/2011 2:14:18 PM

Login PM	Lab Sample ID Sample Matrix	Method Description		Rush	Basis Description		2nd Level Due	HT Expires		Date Sampled SRF	Assigned To	Result History	Alt Sample Matrix
		Status	Batch		Method	Prep Chain		Job Number					
10440 MMN	480-10440-6 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10440-1	09/27/11 12:33	0.87400,0.11600,0.24000				Ground Water
10441 MMN	480-10441-1 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 11:44	0.57700,0.39400,0.23000,0.04800				Ground Water
10441 MMN	480-10441-2 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 15:05	0.00000,0.00000,0.02800				Ground Water
10441 MMN	480-10441-3 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 15:05	0.00000,0.00000,0.03100				Ground Water
10441 MMN	480-10441-4 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 12:00	0.63400,0.87900,1.20000,1.00000				Ground Water
10441 MMN	480-10441-5 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 11:20	0.05400,0.00000,0.08500				Ground Water
10441 MMN	480-10441-6 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 12:07	0.37900,0.00000,0.06300				Ground Water
10441 MMN	480-10441-7 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 13:58	0.00000,0.00000				Ground Water
10443 MMN	480-10443-1 Water	Nitrogen, Nitrate-Nitrite Login	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10443-1	09/27/11 09:45	0.00000,0.00000,0.04500				Leachate



337814

ID: NitrateBuffer_00048
Exp: 10/09/11 Pwr RL Ctr 04/02/11
Nitrate/Nitrite Ammonium

WC Available/Received-NO2/NO3 @ 9/30/2011 2:22:49 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Basis Description Method	2nd Level Due Prep Chain	HT Expires Job Number	Date Sampled SRF	Assigned To	Result History	Alt Sample Matrix
10444 MN	480-10444-1 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10440-1	09/27/11 12:33	0.87400,0.11600,0.24000	Ground Water	
10444 MN	480-10444-1 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 11:44	0.57700,0.39400,0.23000,0.04800	Ground Water	
10444 MN	480-10444-2 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 15:05	0.00000,0.00000,0.02800	Ground Water	
10444 MN	480-10444-3 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 15:05	0.00000,0.00000,0.03100	Ground Water	
10444 MN	480-10444-4 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 12:00	0.63400,0.87900,1.20000,1.00000	Ground Water	
10444 MN	480-10444-5 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 11:20	0.05400,0.00000,0.08500	Ground Water	
10444 MN	480-10444-6 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10441-1	09/27/11 12:07	0.37900,0.00000,0.06300	Ground Water	
10444 MN	480-10444-7 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/24/11 23:59 480-J10441-1	09/26/11 13:58	0.00000,0.00000	Ground Water	
10444 MN	480-10444-8 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10443-1	09/27/11 09:45	0.00000,0.00000,0.04500	Leachate	
Please run in 7 days unpreserved.											
10444 MN	480-10444-1 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/26/11 23:59 480-J10444-1	09/28/11 08:30	0.05700,0.53500	Ground Water	
10444 MN	480-10444-2 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 10:47	0.00000,0.00000	Ground Water	
10444 MN	480-10444-3 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 16:25	0.00000,0.00000	Ground Water	
10444 MN	480-10444-4 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 15:11	0.00000,0.02800,0.14000,0.02200	Ground Water	
10444 MN	480-10444-5 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 16:00	0.22900,0.12700,0.17000,0.18000	Ground Water	
10444 MN	480-10444-6 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/26/11 23:59 480-J10444-1	09/28/11 07:50	0.06300,0.06100,0.06700,0.15000,0.02400,0.0	Ground Water	
10444 MN	480-10444-7 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 09:02	0.00000,0.00000,0.03000	Ground Water	
10444 MN	480-10444-8 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 09:02	0.00000,0.00000	Ground Water	

927 u: fno

10/24/2011

WC Available/Received NO2/NO3 @ 9/30/2011 2:22:19 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Basis Description Method	2nd Level Due Prep Chain	HT Expires Job Number	Date Sampled SRF	Assigned To	Result History	Alt Sample Matrix
10444 MN	480-10444-9 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 09:21	0.00000,0.00000,0.00000	Ground Water	
10444 MN	480-10444-10 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/11/2011	10/25/11 23:59 480-J10444-1	09/27/11 16:41	0.02800,0.02800,0.02700,0.02500	Ground Water	
10456 PG	480-10456-1 Water	Nitrogen, Nitrate-Nitrite Ready	No	No	Total/NA 353.2_Pres	10/13/2011	10/26/11 23:59 480-J10456-1	09/28/11 10:30	0.00000,0.00000,0.00000,0.00000,ND,ND,ND	Leachate	
10463 SH	480-10463-1 Water	Nitrogen, Nitrate-Nitrite Ready	No	Yes	Total/NA 353.2_Pres	10/07/2011	10/25/11 23:59 480-J10463-1	09/27/11 09:30		Water	
10463 SH	480-10463-2 Water	Nitrogen, Nitrate-Nitrite Ready	No	Yes	Total/NA 353.2_Pres	10/07/2011	10/25/11 23:59 480-J10463-1	09/27/11 10:50		Water	
10463 PSH	480-10463-3 Water	Nitrogen, Nitrate-Nitrite Ready	No	Yes	Total/NA 353.2_Pres	10/07/2011	10/25/11 23:59 480-J10463-1	09/27/11 10:30		Water	
10463 SH	480-10463-4 Water	Nitrogen, Nitrate-Nitrite Ready	No	Yes	Total/NA 353.2_Pres	10/07/2011	10/25/11 23:59 480-J10463-1	09/27/11 09:55		Water	
10463 SH	480-10463-5 Water	Nitrogen, Nitrate-Nitrite Ready	No	Yes	Total/NA 353.2_Pres	10/07/2011	10/25/11 23:59 480-J10463-1	09/27/11 11:10		Water	

Data Review Coversheet—Wet Chemistry Dept

Analysis: SO₄

Method: 9038

Analyst/Primary Reviewer: PSN

Secondary Reviewer: dlm

Date of Analytical Run: 10-18-11

Date of Primary Review: 10-18-11

Date of Secondary Review: 20 OCT 2011

Prep Batch Number					

Analytical Batch Number	35987				

Criteria for QC	1 st Level	2 nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, $r > \text{or} = 0.995$	Yes	✓		
Was Data Imported <u>✓</u> Manually Entered _____ Balance Interface Used _____		✓		
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Yes	✓		
Were the ICB, CCB and MB all <RL?	Yes	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	Yes	✓		
Was there an LCS run with every batch of 20 samples or less?	Yes	✓		
Was there a DUP, MS or MSD run with every batch of 20 samples or less?	Yes	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	No	✓		10680-3 MS, 10574-3 MS, 10613-8 MS failed
Were all DUP or MSD RPDs within acceptable limits for QC recovery?	Yes	✓		
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	Yes	✓		
Are dilution factors all present and correct?	Yes	✓		
Do all entries match raw data?	Yes	✓		
Were there any holding time violations in this batch?	No	✓		NOTE! The PM and QA Manager must be notified by email immediately of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Yes	✓		
Were any NCMs needed in the batch?	Yes			NCM #s: 31098, 31101

9723 10444
10504, 05, 42, 74
10612, 13, 14, 48, 63, 75, 76
10745

TestAmerica-Buffalo
Konelab 1

10/18/2011 15:08

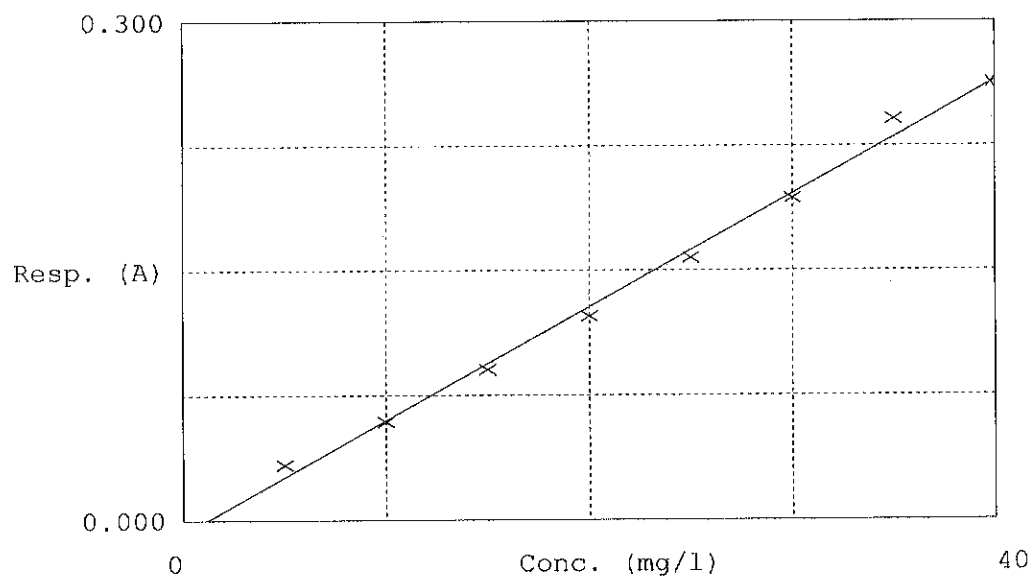
Test SO4

Accepted 9/23/2011 15:28

Factor 146.9
Bias -0.008

Coeff. of det. 0.994890

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	SO4 5 ppm	0.033	6.106	5.000	
2	SO4 10ppm	0.059	9.883	10.000	
3	SO4 15ppm	0.091	14.496	15.000	
4	SO4 20ppm	0.122	19.183	20.000	
5	SO4 25ppm	0.157	24.314	25.000	
6	SO4 30ppm	0.193	29.601	30.000	
7	SO4 35ppm	0.241	36.603	35.000	
8	SO4 40ppm	0.263	39.813	40.000	

=====
Check water blank

AquaKem 7.0

Page: 1

TestAmerica-Buffalo
Konelab 1

10/18/2011 15:09

Performed 10/17/2011 18:19
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	--				
405 nm	-27.6	0.4	1	1	6.2
420 nm	-283.8	0.4	2	1	6.0
460 nm	-166.6	0.3	0	0	6.2
480 nm	-203.2	0.3	0	0	6.0
520 nm	-225.2	0.2	0	0	5.7
540 nm	-236.0	0.2	0	0	5.9
575 nm	-245.2	0.2	0	0	5.9
600 nm	-251.1	0.2	0	0	5.6
630 nm	-254.1	0.2	0	0	5.1
660 nm	-256.6	0.2	0	0	5.1
700 nm	-259.7	0.2	0	0	4.8
880 nm	-243.5	0.2	0	0	4.3

Solutions Used: Konelab AQUA20 & 20XT

<u>Alkalinity</u>	<u>Chloride</u>	<u>Sulfate</u>
377983=1000PPM	159984= 1000PPM	266171= 1000PPM
377962= 50PPM	418489= 25PPM	376633=30PPM
Alk. Mix. 423806	Color Reagent: 376632	Precip. Soln: 422264
010511 Actual=66.0 MG/L Range= 60.1-71.9mg/l PT Pals= 57.8-73.8mg/l	010511 Actual=54.9MG/L RANGE = 49.7- 60.1MG/L PT Pals= 46.7-63.6 mg/l	010511 Actual= 44.6 MG/L Range= 37.7-51.4 mg/l PT Pals= 36.3-51.7 mg/l
LCS = 50mg/L MS/SD = 20ppm	LCS = 25mg/L MS/SD = 20ppm	LCS = 30mg/L MS/SD = 20ppm

TestAmerica-Buffalo
Konelab 1

Date : 10/18/2011
Time : 14:59

Test Unit	SO4 mg/l				
Sample ID:	Result	Resp.	Blank	Dilut	Date and Time
CCV SO4	31.06 ^{103.5}	0.203	0.000		10/18/2011 9:03
CCB SO4	2.71 ⁴⁵	0.010	0.000		10/18/2011 9:03
era 010511	47.77	0.155	0.001	1+1.0	10/18/2011 9:03
CCV SO4	30.28 ^{100.9}	0.198	0.000		10/18/2011 9:05
CCB SO4	2.71 ⁴⁵	0.010	0.000		10/18/2011 9:05
CCV SO4	30.62 ^{102.1}	0.200	0.000		10/18/2011 10:14
CCB SO4	2.68 ⁴⁵	0.010	0.000		10/18/2011 10:14
480-10435-h-7	38.82	0.256	0.001		10/18/2011 10:14
480-10444-B-1	2.76	0.011	0.004		10/18/2011 10:14
480-10542-H-2	16.38	0.103	0.004		10/18/2011 10:14
480-10574-K-1	29.04	0.190	-0.000		10/18/2011 10:14
480-10574-K-2	18.42	0.117	-0.000		10/18/2011 10:16
480-10574-K-4	3.02	0.012	0.008		10/18/2011 10:18
480-10574-L-5	31.58	0.207	-0.000		10/18/2011 10:18
480-10612-C-3	2.43	0.008	0.058		10/18/2011 10:18
480-10612-C-4	35.93	0.237	0.003		10/18/2011 10:18
CCV SO4	30.04 ^{100.1}	0.196	0.000		10/18/2011 10:20
CCB SO4	2.67 ⁴⁵	0.010	-0.000		10/18/2011 10:20
du 480-10542-H-2	16.28	0.103	0.003		10/18/2011 10:30
480-10542-H-6	2.59	0.010	-0.001		10/18/2011 10:30
480-10504-B-13	159.70	0.209	0.001	1+4.0	10/18/2011 10:30
480-10504-A-22	167.10	0.219	0.001	1+4.0	10/18/2011 10:30
480-10504-A-20	107.66	0.138	0.001	1+4.0	10/18/2011 10:30
480-10574-I-3	45.66	0.054	-0.000	1+4.0	10/18/2011 10:30
ms 480-10574-I-3	65.88	0.082	-0.000	1+4.0	10/18/2011 10:30
480-10504-b-12	165.56	0.217	0.001	1+4.0	10/18/2011 10:33
CCV SO4	30.44 ^{101.5}	0.199	0.000		10/18/2011 10:33
CCB SO4	2.67 ⁴⁵	0.010	-0.000		10/18/2011 10:33
480-10505-E-5	400.01	0.128	0.000	1+19.0	10/18/2011 10:44
480-10612-C-5	29.27	0.191	0.001		10/18/2011 10:48
480-10613-F-1	2.53	0.009	0.048		10/18/2011 10:48
480-10613-G-3	12.28	0.076	0.028		10/18/2011 10:48
480-10613-G-4	20.95	0.135	-0.000		10/18/2011 10:48
480-10613-F-5	21.03	0.135	0.000		10/18/2011 10:48
480-10613-F-6	2.66	0.010	-0.000		10/18/2011 10:48
CCV SO4	30.38 ^{101.3}	0.199	-0.000		10/18/2011 10:48
CCB SO4	2.60 ⁴⁵	0.010	-0.000		10/18/2011 10:48
480-10612-C-1	43.24	0.139	0.001	1+1.0	10/18/2011 10:50
CCV SO4	30.28 ^{100.9}	0.198	-0.000		10/18/2011 11:02
CCB SO4	2.67 ⁴⁵	0.010	-0.000		10/18/2011 11:02
480-10613-E-7	4.60	0.023	0.279		10/18/2011 11:05
du 480-10613-E-7	4.90	0.025	0.295		10/18/2011 11:06
480-10613-E-8	17.60	0.112	0.003		10/18/2011 11:06
ms 480-10613-E-8	17.57	0.112	0.003		10/18/2011 11:06
480-10613-E-9	6.91	0.039	0.000		10/18/2011 11:06
CCV SO4	30.34 ^{101.1}	0.198	-0.000		10/18/2011 11:06
CCB SO4	2.54 ⁴⁵	0.009	-0.001		10/18/2011 11:06
480-10613-E-10	34.17	0.225	0.002		10/18/2011 11:08
480-10613-D-11	20.00	0.128	0.013		10/18/2011 11:08
480-10613-e-12	21.64	0.139	0.013		10/18/2011 11:09
480-10613-e-13	23.07	0.149	0.001		10/18/2011 11:09
480-10614-D-3	3.30	0.014	0.007		10/18/2011 11:09
480-10612-C-2	49.50	0.160	0.001	1+1.0	10/18/2011 11:11

TestAmerica-Buffalo
Konelab 1

Date : 10/18/2011

Time : 14:59

Test
Unit

SO4
mg/l

Sample ID:	Result	Resp.	Blank	Dilut	Date and Time
480-10612-C-6	38.38	0.123	0.002	1+1.0	10/18/2011 11:16
480-10613-G-2	34.14	0.108	-0.000	1+1.0	10/18/2011 11:16
CCV SO4	29.85 ^{99.5}	0.195	-0.000		10/18/2011 11:22
CCB SO4	2.49 ^{<5}	0.009	-0.001		10/18/2011 11:22
480-10613-d-14	36.09	0.041	-0.000	1+4.0	10/18/2011 11:22
480-10614-E-2	88.82 ^{PN-10-18}	0.113	-0.000	1+4.0	10/18/2011 11:22
CCV SO4	29.86 ^{99.5}	0.195	0.000		10/18/2011 11:27
CCB SO4	2.48 ^{<5}	0.009	-0.001		10/18/2011 11:27
CCV SO4	29.69 ^{98.9}	0.194	0.000		10/18/2011 12:53
CCB SO4	2.32 ^{<5}	0.008	-0.000		10/18/2011 12:53
480-10648-E-1	19.33	0.123	0.006		10/18/2011 12:53
480-10648-E-3	17.71	0.112	0.012		10/18/2011 12:59
du 480-10648-E-3	17.67	0.112	0.012		10/18/2011 12:59
480-10680-E-6	2.51	0.009	0.004		10/18/2011 12:59
480-10648-E-2	58.02	0.189	0.007	1+1.0	10/18/2011 13:04
480-10680-B-3	84.04	0.106	-0.000	1+4.0	10/18/2011 13:04
ms 480-10680-B-3	83.25	0.105	-0.000	1+4.0	10/18/2011 13:04
480-10680-C-4	73.92	0.244	-0.000	1+1.0	10/18/2011 13:04
CCV SO4	30.28 ^{100.4}	0.198	-0.000		10/18/2011 13:04
CCB SO4	2.37 ^{<5}	0.008	-0.000		10/18/2011 13:04
480-10663-I-2	15.79	0.099	0.007		10/18/2011 13:20
480-10675-J-3	2.30	0.008	-0.001		10/18/2011 13:20
480-10675-J-4	11.96	0.073	0.070		10/18/2011 13:20
480-10675-J-5	16.21	0.102	0.032		10/18/2011 13:21
480-10745-E-1	127.67	0.079	-0.000	1+9.0	10/18/2011 13:21
480-10745-E-4	117.33	0.152	0.001	1+4.0	10/18/2011 13:21
480-10745-E-3	67.30	0.084	-0.000	1+4.0	10/18/2011 13:23
480-10745-E-7	311.35	0.098	-0.000	1+19.0	10/18/2011 13:23
CCV SO4	30.15 ^{100.5}	0.197	-0.000		10/18/2011 13:28
CCB SO4	2.31 ^{<5}	0.008	-0.000		10/18/2011 13:29
480-10745-E-6	137.07	0.179	0.003	1+4.0	10/18/2011 13:33
480-10680-E-5	88.82	0.113	0.000	1+4.0	10/18/2011 13:39
480-10745-E-5	64.01	0.210	0.002	1+1.0	10/18/2011 13:39
480-10745-E-2	315.75	0.135	-0.000	1+14.0	10/18/2011 13:41
480-10675-I-6	47.39	0.153	0.001	1+1.0	10/18/2011 13:41
480-10675-J-8	25.21	0.164	0.000		10/18/2011 13:46
480-10675-J-7	49.68	0.161	0.014	1+1.0	10/18/2011 13:50
CCV SO4	30.05 ^{100.2}	0.196	-0.000		10/18/2011 13:51
CCB SO4	2.25 ^{<5}	0.007	-0.001		10/18/2011 13:51
480-10675-I-12	8.15	0.047	0.076		10/18/2011 13:51
480-10675-I-9	8.55	0.050	0.002		10/18/2011 13:51
480-10675-J-10	15.63	0.098	0.049		10/18/2011 13:51
du 480-10675-J-1	15.26	0.096	0.046		10/18/2011 13:51
480-10675-J-11	18.36	0.117	0.004		10/18/2011 13:51
480-10676-F-1	6.24	0.034	-0.001		10/18/2011 13:56
480-10676-F-3	2.18	0.007	-0.001		10/18/2011 13:56
CCV SO4	30.25 ^{100.8}	0.198	-0.000		10/18/2011 13:56
CCB SO4	2.20 ^{<5}	0.007	-0.001		10/18/2011 13:56
480-10676-F-9	8.68	0.051	0.073		10/18/2011 13:56
480-10676-F-10	5.94	0.032	0.132		10/18/2011 13:56
du 480-10676-F-1	6.57	0.037	0.182		10/18/2011 13:57
480-10676-F-11	7.53	0.043	-0.001		10/18/2011 14:02
ms 480-10676-F-1	26.95	0.175	0.001		10/18/2011 14:02

TestAmerica-Buffalo
Konelab 1Date : 10/18/2011
Time : 14:59

Test Unit	SO4 mg/l				
Sample ID:	Result	Resp.	Blank	Dilut	Date and Time
480-10676-F-12	8.94	0.053	0.000		10/18/2011 14:09
CCV SO4	30.39 ^{101.3}	0.199	-0.000		10/18/2011 14:30
CCB SO4	2.91 ⁴⁵	0.012	-0.000		10/18/2011 14:30
480-10676-F-13	17.83	0.113	0.000		10/18/2011 14:30
480-10676-F-14	7.46	0.043	0.003		10/18/2011 14:30
480-10676-F-15	11.81	0.072	0.001		10/18/2011 14:30
480-10676-F-16	6.28	0.035	-0.000		10/18/2011 14:30
480-10676-f-17	6.40	0.035	0.001		10/18/2011 14:30
480-10676-F-18	6.57	0.037	-0.000		10/18/2011 14:30
480-10676-f-20	2.61	0.010	0.073		10/18/2011 14:30
du 480-10676-f-2	2.61	0.010	0.074		10/18/2011 14:30
480-10676-F-21	3.24	0.014	0.155		10/18/2011 14:30
ms 480-10676-F-2	22.09	0.142	0.151		10/18/2011 14:30
CCV SO4	29.61 ^{98.7}	0.194	-0.000		10/18/2011 14:32
CCB SO4	2.85 ⁴⁵	0.011	-0.001		10/18/2011 14:32
480-10676-F-22	2.99	0.012	0.149		10/18/2011 14:32
480-10676-F-5	26.14	0.027	0.022	1+4.0	10/18/2011 14:34
480-10676-F-6	55.58	0.068	0.063	1+4.0	10/18/2011 14:34
ms 480-10675-J-1	36.05	0.115	0.003	1+1.0	10/18/2011 14:34
CCV SO4	30.17 ^{100.6}	0.197	-0.000		10/18/2011 14:45
CCB SO4	2.70 ⁴⁵	0.010	-0.001		10/18/2011 14:45

TestAmerica-Buffalo
Konelab 1

Date : 10/18/2011

Time : 15:58

Test Unit	SO4 KIN mg/l				
Sample ID:	Result	Resp.	Blank	Dilut	Date and Time
480-10435-h-7	0.002	0.002	0.003		10/18/2011 10:09
480-10444-B-1	-0.000	-0.000	0.005		10/18/2011 10:09
480-10542-H-2	0.005	0.005	0.005		10/18/2011 10:25
du 480-10542-H-2	0.005	0.005	0.004		10/18/2011 10:25
480-10542-H-6	-0.000	-0.000	-0.000		10/18/2011 10:25
480-10574-K-1	0.002	0.002	-0.000		10/18/2011 10:25
480-10574-K-2	0.002	0.002	0.000		10/18/2011 10:25
480-10574-K-4	-0.000	-0.000	0.011		10/18/2011 10:37
480-10574-L-5	0.002	0.002	-0.001		10/18/2011 10:38
480-10612-C-3	-0.001	-0.001	0.034		10/18/2011 10:43
480-10612-C-4	0.001	0.001	0.002		10/18/2011 10:43
480-10612-C-5	0.002	0.002	0.001		10/18/2011 10:55
480-10613-F-1	-0.001	-0.001	0.052		10/18/2011 10:55
480-10613-G-3	0.004	0.004	0.030		10/18/2011 10:55
480-10613-G-4	-0.000	-0.000	-0.000		10/18/2011 10:55
480-10613-F-5	-0.001	-0.001	-0.001		10/18/2011 11:00
480-10613-F-6	-0.000	-0.000	-0.001		10/18/2011 11:00
480-10613-E-7	0.001	0.001	0.401		10/18/2011 11:15
du 480-10613-E-7	0.001	0.001	0.417		10/18/2011 11:16
480-10613-E-8	-0.000	-0.000	0.004		10/18/2011 11:16
ms 480-10613-E-8	-0.000	-0.000	0.003		10/18/2011 11:16
480-10613-E-9	0.000	0.000	0.001		10/18/2011 11:16
480-10613-E-10	0.001	0.001	0.002		10/18/2011 11:16
480-10613-D-11	0.002	0.002	0.020		10/18/2011 11:21
480-10613-e-12	0.001	0.001	0.017		10/18/2011 11:21
480-10613-e-13	-0.000	-0.000	-0.000		10/18/2011 11:21
480-10614-D-3	-0.000	-0.000	0.008		10/18/2011 11:21
480-10504-b-12	0.004	0.001	0.002	1+4.0	10/18/2011 12:47
480-10504-B-13	0.005	0.001	0.001	1+4.0	10/18/2011 12:47
480-10504-A-22	0.003	0.001	0.001	1+4.0	10/18/2011 12:47
480-10504-A-20	-0.001	-0.000	0.002	1+4.0	10/18/2011 12:47
480-10574-I-3	0.010	0.002	-0.000	1+4.0	10/18/2011 12:47
ms 480-10574-I-3	0.007	0.001	0.000	1+4.0	10/18/2011 12:47
480-10505-E-5	-0.016	-0.001	0.001	1+19.0	10/18/2011 12:53
480-10612-C-1	0.007	0.003	0.003	1+1.0	10/18/2011 12:53
480-10612-C-2	0.004	0.002	0.002	1+1.0	10/18/2011 12:53
480-10612-C-6	0.003	0.002	0.002	1+1.0	10/18/2011 12:53
480-10613-G-2	0.001	0.000	0.001	1+1.0	10/18/2011 12:53
480-10613-d-14	0.002	0.000	-0.000	1+4.0	10/18/2011 12:58
480-10614-E-2	0.000	0.000	0.000	1+4.0	10/18/2011 12:58
480-10648-E-1	-0.000	-0.000	0.006		10/18/2011 13:04
480-10648-E-3	0.001	0.001	0.011		10/18/2011 13:04
du 480-10648-E-3	0.000	0.000	0.012		10/18/2011 13:04
480-10680-E-6	-0.000	-0.000	0.005		10/18/2011 13:15
480-10663-I-2	-0.001	-0.001	0.010		10/18/2011 13:28
480-10675-J-3	0.000	0.000	-0.001		10/18/2011 13:28
480-10675-J-4	0.002	0.002	0.060		10/18/2011 13:28
480-10675-J-5	0.005	0.005	0.032		10/18/2011 13:28
480-10675-J-8	-0.000	-0.000	-0.001		10/18/2011 13:45
480-10675-I-9	0.002	0.002	0.002		10/18/2011 13:56
480-10675-J-10	0.008	0.008	0.051		10/18/2011 13:56
du 480-10675-J-1	0.008	0.008	0.054		10/18/2011 13:56
480-10675-J-11	0.002	0.002	0.006		10/18/2011 13:56

TestAmerica-Buffalo
Konelab 1

Date : 10/18/2011
Time : 15:58

Test SO4 KIN
Unit mg/l

Sample ID:	Result	Resp.	Blank	Dilut	Date and Time
480-10675-I-12	0.004	0.004	0.074		10/18/2011 14:02
480-10676-F-1	0.001	0.001	-0.001		10/18/2011 14:02
480-10676-F-3	-0.000	-0.000	-0.001		10/18/2011 14:02
480-10676-F-9	0.002	0.002	0.122		10/18/2011 14:38
480-10676-F-10	0.002	0.002	0.206		10/18/2011 14:38
du 480-10676-F-1	0.002	0.002	0.209		10/18/2011 14:38
480-10676-F-11	0.000	0.000	-0.000		10/18/2011 14:38
ms 480-10676-F-1	-0.001	-0.001	-0.001		10/18/2011 14:38
480-10676-F-12	0.000	0.000	-0.000		10/18/2011 14:38
480-10676-F-13	0.001	0.001	-0.000		10/18/2011 14:44
480-10676-F-14	0.000	0.000	0.004		10/18/2011 14:44
480-10676-F-15	0.000	0.000	0.000		10/18/2011 14:44
480-10676-F-16	0.001	0.001	-0.001		10/18/2011 14:44
480-10676-f-17	0.000	0.000	-0.000		10/18/2011 14:44
480-10676-F-18	0.001	0.001	-0.000		10/18/2011 14:44
480-10676-f-20	-0.001	-0.001	0.107		10/18/2011 14:50
du 480-10676-f-2	-0.001	-0.001	0.108		10/18/2011 14:50
480-10676-F-21	-0.001	-0.001	0.217		10/18/2011 14:50
ms 480-10676-F-2	-0.002	-0.002	0.213		10/18/2011 14:50
480-10676-F-22	-0.001	-0.001	0.215		10/18/2011 14:50
480-10648-E-2	-0.001	-0.001	0.016	1+1.0	10/18/2011 15:15
480-10680-B-3	0.003	0.001	0.002	1+4.0	10/18/2011 15:15
ms 480-10680-B-3	0.002	0.000	-0.000	1+4.0	10/18/2011 15:15
480-10680-C-4	0.003	0.001	-0.000	1+1.0	10/18/2011 15:15
480-10745-E-1	-0.002	-0.000	-0.000	1+9.0	10/18/2011 15:15
480-10745-E-4	-0.004	-0.001	0.001	1+4.0	10/18/2011 15:15
480-10680-E-5	0.008	0.002	0.000	1+4.0	10/18/2011 15:21
480-10745-E-2	-0.016	-0.001	0.003	1+14.0	10/18/2011 15:21
480-10745-E-3	-0.001	-0.000	0.003	1+4.0	10/18/2011 15:21
480-10745-E-5	-0.002	-0.001	0.006	1+1.0	10/18/2011 15:21
480-10745-E-6	-0.010	-0.002	0.002	1+4.0	10/18/2011 15:21
480-10745-E-7	-0.010	-0.001	-0.000	1+19.0	10/18/2011 15:21
480-10676-F-5	0.003	0.001	0.103	1+4.0	10/18/2011 15:27
480-10676-F-6	0.004	0.001	0.177	1+4.0	10/18/2011 15:27
480-10675-I-6	-0.002	-0.001	0.004	1+1.0	10/18/2011 15:27
480-10675-J-7	-0.002	-0.001	0.026	1+1.0	10/18/2011 15:27
ms 480-10675-J-1	-0.001	-0.000	0.018	1+1.0	10/18/2011 15:27

Historical Data Summary Report

For Batch 35987

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-10435-H-7	PDG14R	9038	Sulfate	Total/NA	mg/L	8	1.0	38.8	☐ 25.53 - 52.245	☐ 27.2 - 55.92
480-10444-B-1	MW05C	D516	Sulfate	Total/NA	mg/L	3	1.0	2.8	☐ 0 - 4.729	☒ 1.173 - 1.76 ~~OK~~
480-10505-E-5	MW-5	9038	Sulfate	Total/NA	mg/L	2	20.0	400	☒ 205 - 334	☒ 215.6 - 323.4 ~~OK~~
480-10542-H-2	MW-11	9038	Sulfate	Total/NA	mg/L	8	1.0	16.4	☐ 0 - 36.897	☐ 0 - 28.2
480-10542-H-6	TRIP BLANK	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10574-I-3	GINDER	D516	Sulfate	Total/NA	mg/L	8	5.0	45.7	☐ 19.518 - 73.632	☐ 27.76 - 76.68
480-10574-K-1	CARPENTER	D516	Sulfate	Total/NA	mg/L	5	1.0	29.0	☐ 16.866 - 40.134	☐ 20.08 - 42.72
480-10574-K-2	FISHER	D516	Sulfate	Total/NA	mg/L	8	1.0	18.4	☐ 8.992 - 27.533	☐ 11.84 - 29.16
480-10574-K-4	KIBBY	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0 - 58.652	☒ 5.04 - 44.28 ~~OK~~
480-10574-L-5	LANDIS	D516	Sulfate	Total/NA	mg/L	8	1.0	31.6	☐ 13.943 - 46.557	☐ 19.04 - 45.36
480-10613-D-11	108	D516	Sulfate	Total/NA	mg/L	4	1.0	20	☐ 19.779 - 26.371	☐ 17.28 - 29.64
480-10613-D-14	111	D516	Sulfate	Total/NA	mg/L	4	5.0	36	☐ 29.894 - 44.056	☐ 27.2 - 47.76
480-10613-E-10	106	D516	Sulfate	Total/NA	mg/L	4	1.0	34	☐ 23.295 - 43.855	☐ 24 - 44.4
480-10613-E-12	109	D516	Sulfate	Total/NA	mg/L	4	1.0	22	☐ 14.784 - 28.916	☐ 14.4 - 29.28
480-10613-E-13	110	D516	Sulfate	Total/NA	mg/L	4	1.0	23	☐ 10.872 - 34.178	☐ 14.4 - 32.4
480-10613-E-7	LEACH	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0 - 9.24	☐ 0 - 7.92
480-10613-E-8	101	D516	Sulfate	Total/NA	mg/L	4	1.0	18	☐ 0 - 23.618	☐ 4.4 - 20.04
480-10613-E-9	105	D516	Sulfate	Total/NA	mg/L	4	1.0	6.9	☐ 0 - 17.277	☐ 0 - 12.6
480-10613-F-1	102	D516	Sulfate	Total/NA	mg/L	4	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10613-F-5	DUP	D516	Sulfate	Total/NA	mg/L	3	1.0	21	☒ 12.402 - 14.665	☒ 10.827 - 16.24 ~~OK~~
480-10613-G-2	103	D516	Sulfate	Total/NA	mg/L	4	2.0	34	☐ 28.503 - 39.347	☐ 24.96 - 43.2
480-10613-G-3	104	D516	Sulfate	Total/NA	mg/L	4	1.0	12	☐ 0 - 28.999	☐ 0 - 22.8
480-10613-G-4	112	D516	Sulfate	Total/NA	mg/L	4	1.0	21	☐ 0.335 - 28.815	☐ 8.8 - 27.24
480-10614-E-2	MW-19	9038	Sulfate	Total/NA	mg/L	2	5.0	88.8	☐ 34.8 - 153.6	☐ 75.36 - 113.04
480-10648-E-1	WS-1D	9038	Sulfate	Total/NA	mg/L	7	1.0	19.3	☐ 13.519 - 25.281	☐ 14 - 28.8
480-10648-E-2	WS-1S	9038	Sulfate	Total/NA	mg/L	7	2.0	58.0	☐ 0 - 75.089	☐ 7.192 - 65.52
480-10648-E-3	WS-7D	9038	Sulfate	Total/NA	mg/L	7	1.0	17.7	☐ 6.196 - 35.775	☐ 12.88 - 36 ~~OK~~
480-10663-I-2	S02	D516	Sulfate	Total/NA	mg/L	5	1.0	15.8	☐ 0 - 201.107	☒ 23.68 - 165.6 ~~OK~~
480-10675-J-12	MW-108	D516	Sulfate	Total/NA	mg/L	8	1.0	8.1	☐ 0 - 21.948	☐ 0 - 17.4
480-10675-J-6	MW-103	D516	Sulfate	Total/NA	mg/L	8	2.0	47.4	☐ 31.334 - 100.641	☐ 39.92 - 102.36
480-10675-I-9	MW-106	D516	Sulfate	Total/NA	mg/L	8	1.0	8.6	☐ 0 - 52.963	☐ 0 - 45.6
480-10675-J-10	MW-106B	D516	Sulfate	Total/NA	mg/L	8	1.0	15.6	☐ 10.626 - 45.999	☐ 15.52 - 45.36
480-10675-J-11	MW-107	D516	Sulfate	Total/NA	mg/L	8	1.0	18.4	☐ 0 - 38.205	☐ 0 - 34.08
480-10675-J-3	FIELD BLANK	D516	Sulfate	Total/NA	mg/L	7	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10675-J-4	MW-101	D516	Sulfate	Total/NA	mg/L	8	1.0	12.0	☐ 0 - 40.685	☐ 9.52 - 35.76
480-10675-J-5	MW-101B	D516	Sulfate	Total/NA	mg/L	8	1.0	16.2	☐ 6.168 - 39.382	☐ 12.08 - 36.12
480-10675-J-7	MW-103B	D516	Sulfate	Total/NA	mg/L	8	2.0	49.7	☐ 34.104 - 71.246	☐ 33.92 - 75.36
480-10675-J-8	MW-105	D516	Sulfate	Total/NA	mg/L	8	1.0	25.2	☒ 4.63 - 24.32	☒ 8.08 - 23.52 ~~OK~~
480-10676-F-1	DUP-1	D516	Sulfate	Total/NA	mg/L	3	1.0	6.2	☐ 0 - 19.648	☒ 4.427 - 6.64 ~~OK~~

Historical Data Summary Report

For Batch 35987

Lab Sample ID	Client Sample	Method	Analyte	Data				Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution	Result	
480-10676-F-10	MW-107	D516	Sulfate	Total/NA	mg/L	5	1.0	5.9	☒ 0-0 <i>Dele</i>
480-10676-F-11	MW-108	D516	Sulfate	Total/NA	mg/L	5	1.0	7.5	☐ 0-46.315
480-10676-F-12	MW-109	D516	Sulfate	Total/NA	mg/L	5	1.0	8.9	☐ 0-25.555
480-10676-F-13	MW-110	D516	Sulfate	Total/NA	mg/L	5	1.0	18	☐ 0-47.385
480-10676-F-14	MW-111	D516	Sulfate	Total/NA	mg/L	5	1.0	7.5	☐ 0-21.459
480-10676-F-15	MW-112	D516	Sulfate	Total/NA	mg/L	5	1.0	12	☐ 6.117 - 13.403
480-10676-F-16	MW-113	D516	Sulfate	Total/NA	mg/L	5	1.0	6.3	☐ 0-14.06
480-10676-F-17	MW-114	D516	Sulfate	Total/NA	mg/L	5	1.0	6.4	☐ 0-13.595
480-10676-F-18	MW-115	D516	Sulfate	Total/NA	mg/L	5	1.0	6.6	☐ 0-12.383
480-10676-F-20	SG-1	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0-20.16
480-10676-F-21	SG-2	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0-0
480-10676-F-22	SG-3	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0-0
480-10676-F-3	FIELD BLANK	D516	Sulfate	Total/NA	mg/L	5	1.0	ND	☐ 0-0
480-10676-F-5	MW-102	D516	Sulfate	Total/NA	mg/L	5	5.0	26	☐ 0-40.677
480-10676-F-6	MW-103	D516	Sulfate	Total/NA	mg/L	5	5.0	56	☐ 12.706 - 92.774
480-10676-F-9	MW-106	D516	Sulfate	Total/NA	mg/L	5	1.0	8.7	☒ 0-7.14
480-10745-E-1	K-10	D516	Sulfate	Total/NA	mg/L	2	10.0	128	☒ 133 - 511
480-10745-E-2	K-12	D516	Sulfate	Total/NA	mg/L	1	15.0	316	☒ 933 - 933
480-10745-E-3	K-17	D516	Sulfate	Total/NA	mg/L	2	5.0	67.3	☒ 83.2 - 85.9
480-10745-E-7	Z-1	D516	Sulfate	Total/NA	mg/L	1	20.0	311	☒ 408 - 408

639

10/24/2011

Data Review Coversheet—Wet Chemistry Dept

Analysis: SO₄

Method: 9038

Date of Analytical Run: 10-14-11

Analyst/Primary Reviewer: PSN

Date of Primary Review: 10-14-11

Secondary Reviewer: ARM

Date of Secondary Review: 10-14-11

Prep Batch Number					

Analytical Batch Number	35511	35472			

Criteria for QC	1 st Level	2 nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, $r > \text{or} = 0.995$	✓	✓		
Was Data Imported <u>✓</u> Manually Entered _____ Balance Interface Used _____		✓		
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	NO	✓		one CCV failed at 87%
Were the ICB, CCB and MB all <RL?	✓	✓		
Was there a CCV/CCB combination run after every 10 samples or less?	✓	✓		
Was there an LCS run with every batch of 20 samples or less?	✓	✓		
Was there a DUP, MS or MSD run with every batch of 20 samples or less?	✓	✓		
Were all MS/MSD results within acceptable limits for QC recovery?	NO	✓		10567-2MS, 10441-5 failed
Were all DUP or MSD RPDs within acceptable limits for QC recovery?	NO	✓		10435-1 failed
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?	✓	✓		
Are dilution factors all present and correct?	✓	✓		
Do all entries match raw data?	✓	✓		
Were there any holding time violations in this batch?	NO	✓		NOTE! The PM and QA Manager must be notified by email immediately of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	✓	✓		
Were any NCMs needed in the batch?	✓			NCM #s: 30707, 30708, 30709

9723 10269
10354,55
10440,41,43
10504,67,

TestAmerica-Buffalo
Konelab-3

14.10.2011 15:03

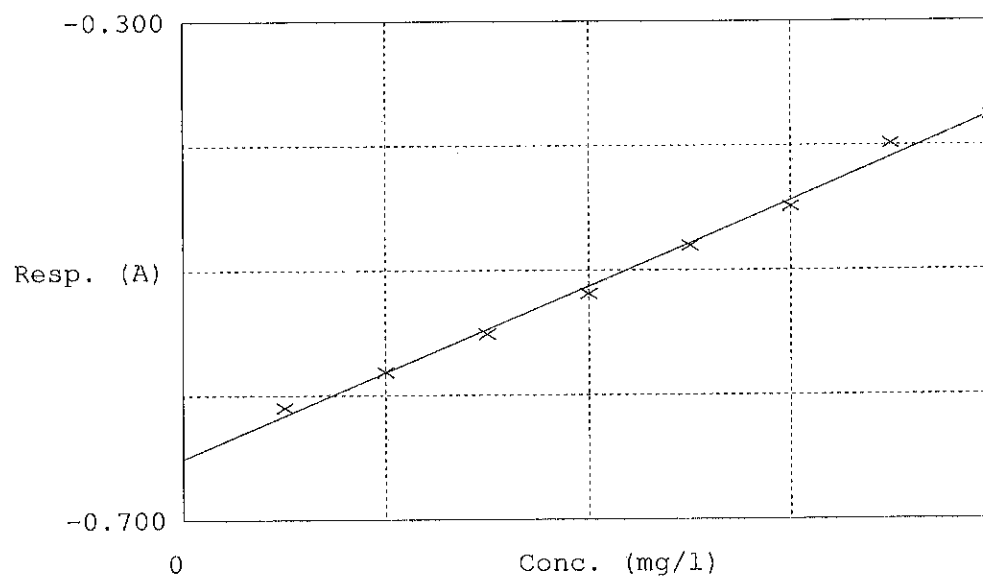
Test SULFATE

Accepted 24.09.2011 09:30

Factor 145.2
Bias -0.651

Coeff. of det. 0.995232

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	SO4 5ppm	-0.610	5.938	5.000	
2	SO4 10ppm	-0.581	10.036	10.000	
3	SO4 15ppm	-0.551	14.475	15.000	
4	SO4 20ppm	-0.519	19.136	20.000	
5	SO4 25ppm	-0.481	24.690	25.000	
6	SO4 30ppm	-0.449	29.316	30.000	
7	SO4 35ppm	-0.399	36.591	35.000	
8	SO4 40ppm	-0.376	39.817	40.000	

TestAmerica-Buffalo
Konelab-3

14.10.2011 15:06

Performed 14.10.2011 05:59
MAX acceptable SD 2.0 mA

Wavelength	Abs (mA)	SD (mA)	SignGain	RefGain	Voltage (V)
340 nm	--				
405 nm	--				
420 nm	--				
460 nm	-284.7	0.6	5	5	6.2
480 nm	185.4	0.4	4	5	6.2
520 nm	-253.4	0.2	4	4	6.2
540 nm	-242.3	0.2	4	4	6.0
575 nm	-236.1	0.2	4	4	6.2
600 nm	-231.5	0.2	4	4	6.2
630 nm	-231.4	0.3	4	4	6.2
660 nm	-233.8	0.2	3	3	6.0
700 nm	-219.9	0.2	3	3	6.2
880 nm	--				

Solutions Used: Konelab AQUA20 & 20XT

Alkalinity

377983=1000PPM

377962= 50PPM

Alk. Mix:

417693

Chloride

159984= 1000PPM

372339= 25PPM

Color Reagent:

376632

Sulfate

266171= 1000PPM

376633=30PPM

Precip. Soln:

376719

010511

Actual=66.0 MG/L

Range= 60.1-71.9mg/l

PT Pals= 57.8-73.8mg/l

010511

Actual=54.9MG/L

RANGE = 49.7-

60.1MG/L

PT Pals= 46.7-63.6 mg/l

010511

Actual= 44.6 MG/L

Range= 37.7-51.4 mg/l

PT Pals= 36.3-51.7 mg/l

LCS = 50mg/L

MS/SD = 20ppm

LCS = 25mg/L

MS/SD = 20ppm

LCS = 30mg/L

MS/SD = 20ppm

TestAmerica-Buffalo
Konelab-3

Date : 2011-10-14
Time : 15.04

Test Unit	SULFATE mg/l			
Sample ID:	Result	Date and Time	Dilut	Man.dilut Resp.
CCV SO4	31.63 ^{105.4}	2011-10-14 06.44		-0.433
CCB SO4	2.46 ⁴⁵	2011-10-14 06.44		-0.634
ERA 010511	61.96	2011-10-14 06.44	1+1.0	-0.437
CCV SO4	31.44 ^{104.8}	2011-10-14 06.48		-0.434
CCB SO4	2.54 ⁴⁵	2011-10-14 06.48		-0.633
CCV SO4	31.36 ^{104.5}	2011-10-14 08.31		-0.435
CCB SO4	2.22 ⁴⁵	2011-10-14 08.31		-0.635
480-10868-b-1	2.36	2011-10-14 08.31		-0.634
480-10868-b-2	1.98	2011-10-14 08.31		-0.637
480-10868-b-3	2.37	2011-10-14 08.31		-0.634
480-10868-b-4	2.34	2011-10-14 08.31		-0.634
CCV SO4	31.88 ^{106.3}	2011-10-14 09.00		-0.431
CCB SO4	2.45 ⁴⁵	2011-10-14 09.00		-0.634
CCV SO4	31.35 ^{104.5}	2011-10-14 11.36		-0.435
CCB SO4	1.99 ⁴⁵	2011-10-14 11.36		-0.637
480-10567-H-2	1.77	2011-10-14 11.36		-0.638
ms 480-10567-H-2	11.04	2011-10-14 11.39		-0.575
480-10567-H-3	50.08	2011-10-14 11.46	1+1.0	-0.478
DU 480-10567-h-3	49.60	2011-10-14 11.46	1+1.0	-0.480
480-10567-h-4	64.60	2011-10-14 11.46	1+1.0	-0.428
CCV SO4	27.97 ^{93.2}	2011-10-14 12.00		-0.458
CCB SO4	2.55 ⁴⁵	2011-10-14 12.00		-0.633
CCV SO4	31.28 ^{104.3}	2011-10-14 12.19		-0.435
CCB SO4	2.53 ⁴⁵	2011-10-14 12.19		-0.633
480-10440-e-2	13.71	2011-10-14 12.20		-0.556
CCV SO4	26.08 ^{86.9}	2011-10-14 12.22		-0.471
CCB SO4	2.43 ⁴⁵	2011-10-14 12.22		-0.634
480-10269-a-8	128.95	2011-10-14 12.26	1+4.0	-0.473
480-10269-a-9	104.00	2011-10-14 12.26	1+4.0	-0.507
480-10269-a-10	93.80	2011-10-14 12.26	1+4.0	-0.521
480-10269-a-7	128.27	2011-10-14 12.28	1+4.0	-0.474
480-10269-a-11	98.20	2011-10-14 12.28	1+4.0	-0.515
480-10269-a-12	98.84	2011-10-14 12.30	1+4.0	-0.514
480-10269-a-15	146.59	2011-10-14 12.30	1+4.0	-0.449
480-10269-H-15 M	172.34	2011-10-14 12.30	1+4.0	-0.413
480-10269-A-15 M	179.00	2011-10-14 12.30	1+4.0	-0.404
CCV SO4	31.64 ^{105.5}	2011-10-14 12.30		-0.433
CCB SO4	2.27 ⁴⁵	2011-10-14 12.30		-0.635
480-10440-e-3	85.19	2011-10-14 12.32	1+4.0	-0.533
480-10354-e-15	104.97	2011-10-14 12.32	1+4.0	-0.506
CCV SO4	31.20 ¹⁰⁴	2011-10-14 12.34		-0.436
CCB SO4	1.97 ⁴⁵	2011-10-14 12.34		-0.637
CCV SO4	31.03 ^{103.4}	2011-10-14 13.05		-0.437
CCB SO4	1.85 ⁴⁵	2011-10-14 13.05		-0.638
480-10441-e-2	4.90	2011-10-14 13.05		-0.617
480-10355-c-7	29.68	2011-10-14 13.05		-0.446
480-10440-d-6	22.16	2011-10-14 13.05		-0.498
480-10269-a-2	362.08	2011-10-14 13.07	1+14.0	-0.484
480-10269-a-3	294.77	2011-10-14 13.07	1+14.0	-0.515
CCV SO4	32.10 ¹⁰⁷	2011-10-14 13.07		-0.429
CCB SO4	2.14 ⁴⁵	2011-10-14 13.07		-0.636
480-10269-a-4	349.78	2011-10-14 13.10	1+14.0	-0.490
480-10269-a-6	317.59	2011-10-14 13.11	1+14.0	-0.490

TestAmerica-Buffalo
Konelab-3

Date : 2011-10-14
Time : 15.04

Test Unit	SULFATE mg/l				
Sample ID:	Result	Date and Time	Dilut	Man.dilut	Resp.
480-10269-a-14	317.38	2011-10-14 13.10	1+14.0		-0.505
480-10441-e-3	4.77	2011-10-14 13.16	1+1.0		-0.634
480-10440-e-5	74.28	2011-10-14 13.16	1+1.0		-0.395
DU 480-10440-e-5	74.57	2011-10-14 13.16	1+1.0		-0.394
CCV SO4	29.91 ^{99.7}	2011-10-14 13.17			-0.445
CCB SO4	1.79 ^{<5}	2011-10-14 13.18			-0.638
480-10269-a-1	592.05	2011-10-14 13.18	1+24.0		-0.487
480-10269-a-5	2598.32	2011-10-14 13.19	1+120.0		-0.503
CCV SO4	30.90 ¹⁰³	2011-10-14 13.20			-0.438
CCB SO4	1.63 ^{<5}	2011-10-14 13.20			-0.639
480-10441-e-7	48.98	2011-10-14 13.41	1+1.0		-0.482
480-10504-a-2	36.24	2011-10-14 13.41	1+1.0		-0.526
CCV SO4	28.38 ^{94.6}	2011-10-14 13.43			-0.455
CCB SO4	1.93 ^{<5}	2011-10-14 13.43			-0.637
480-10441-e-5	2.65	2011-10-14 13.47			-0.632
MS 480-10441-e-5	2.90	2011-10-14 13.49			-0.631
480-10441-e-6	2.57	2011-10-14 13.49			-0.633
480-10443-g-1	4.08	2011-10-14 13.49			-0.622
480-10504-b-7	2.42	2011-10-14 13.49			-0.634
480-10435-j-1	1.77	2011-10-14 13.49			-0.638
DU 480-10435-j-1	34.08	2011-10-14 13.49			-0.416
480-10435-j-2	32.83	2011-10-14 13.49			-0.424
480-10435-I-3	26.37	2011-10-14 13.49			-0.469
CCV SO4	31.73 ^{105.8}	2011-10-14 13.57			-0.432
CCB SO4	2.22 ^{<5}	2011-10-14 13.57			-0.635
CCV SO4	31.40 ^{104.7}	2011-10-14 14.38			-0.434
CCB SO4	2.01 ^{<5}	2011-10-14 14.38			-0.637
480-10435-g-5	39.20	2011-10-14 14.38			-0.381
480-10441-e-1	58.38	2011-10-14 14.40	1+4.0		-0.570
480-10441-e-4	207.87	2011-10-14 14.40	1+9.0		-0.507
480-10504-b-9	42.06	2011-10-14 14.40	1+4.0		-0.593
480-10435-j-4	41.54	2011-10-14 14.40	1+1.0		-0.508
CCV SO4	31.45 ^{104.8}	2011-10-14 14.41			-0.434
CCB SO4	2.13 ^{<5}	2011-10-14 14.41			-0.636

TestAmerica-Buffalo
Konelab-3

Date : 2011-10-14
Time : 15.05

Test Unit	SO4 KIN mg/l			
Sample ID:	Result	Date and Time	Dilut	Man.dilut Resp.
480-10868-b-1	-0.0317	2011-10-14 08.29		-0.032
480-10868-b-2	-0.0490	2011-10-14 08.30		-0.049
480-10868-b-3	0.8369	2011-10-14 08.30		0.837
480-10868-b-4	-0.2312	2011-10-14 08.30		-0.231
480-10567-H-2	-0.4076	2011-10-14 11.34		-0.408
ms 480-10567-H-2	0.1090	2011-10-14 11.34		0.109
480-10269-a-13	0.8940	2011-10-14 12.21		0.894
480-10440-e-2	0.7032	2011-10-14 12.21		0.703
480-10441-e-2	0.2423	2011-10-14 13.09		0.242
480-10441-e-3	0.6572	2011-10-14 13.09		0.657
480-10355-c-7	0.7685	2011-10-14 13.09		0.769
480-10440-d-6	0.6961	2011-10-14 13.09		0.696
480-10440-e-5	0.6078	2011-10-14 13.09		0.608
DU 480-10440-e-5	-0.7768	2011-10-14 13.09		-0.777
480-10441-e-5	0.1494	2011-10-14 13.51		0.149
MS 480-10441-e-5	0.2042	2011-10-14 13.51		0.204
480-10441-e-6	-0.0685	2011-10-14 13.51		-0.068
480-10443-g-1	0.2459	2011-10-14 13.51		0.246
480-10504-b-7	0.6944	2011-10-14 13.51		0.694
480-10435-j-1	0.6443	2011-10-14 13.51		0.644
DU 480-10435-j-1	-0.5136	2011-10-14 13.51		-0.514
480-10435-j-2	0.0839	2011-10-14 13.51		0.084
480-10435-I-3	0.3147	2011-10-14 13.51		0.315
480-10435-g-5	0.8804	2011-10-14 13.51		0.880
480-10567-H-3	0.1702	2011-10-14 14.23	1+1.0	0.085
DU 480-10567-h-3	0.0427	2011-10-14 14.23	1+1.0	0.021
480-10567-h-4	0.6042	2011-10-14 14.23	1+1.0	0.302
480-10269-a-7	0.6741	2011-10-14 14.25	1+4.0	0.135
480-10269-a-8	-0.4780	2011-10-14 14.25	1+4.0	-0.096
480-10269-a-9	1.0773	2011-10-14 14.25	1+4.0	0.215
480-10269-a-10	2.0403	2011-10-14 14.25	1+4.0	0.408
480-10269-a-11	2.9005	2011-10-14 14.25	1+4.0	0.580
480-10269-a-12	6.3117	2011-10-14 14.25	1+4.0	1.262
480-10269-a-2	0.5302	2011-10-14 14.28	1+14.0	0.035
480-10269-a-15	-3.9707	2011-10-14 14.28	1+4.0	-0.794
480-10269-H-15 M	1.4021	2011-10-14 14.28	1+4.0	0.280
480-10269-A-15 M	2.1064	2011-10-14 14.28	1+4.0	0.421
480-10440-e-3	3.3294	2011-10-14 14.28	1+4.0	0.666
480-10354-e-15	5.9223	2011-10-14 14.28	1+4.0	1.184
480-10269-a-1	14.0434	2011-10-14 14.30	1+24.0	0.562
480-10269-a-3	-3.5970	2011-10-14 14.30	1+14.0	-0.240
480-10269-a-4	0.6553	2011-10-14 14.30	1+14.0	0.044
480-10269-a-5	21.6027	2011-10-14 14.30	1+120.0	0.179
480-10269-a-6	9.7134	2011-10-14 14.30	1+14.0	0.648
480-10269-a-14	18.8376	2011-10-14 14.30	1+14.0	1.256
480-10441-e-1	2.9727	2011-10-14 14.33	1+4.0	0.595
480-10441-e-4	2.1646	2011-10-14 14.33	1+9.0	0.216
480-10504-b-9	1.9061	2011-10-14 14.33	1+4.0	0.381
480-10435-j-4	0.7835	2011-10-14 14.33	1+1.0	0.392
480-10441-e-7	0.9544	2011-10-14 14.33	1+1.0	0.477
480-10504-a-2	1.9744	2011-10-14 14.33	1+1.0	0.987

Historical Data Summary Report

For Batch 35511

Lab Sample ID	Client Sample	Method	Analyte	Data				Result	Fail 3-Sigma Limits	Fail Client Limits
				Prep Type	Unit	Points	Dilution			
480-10435-G-5	PDG12SR	9038	Sulfate	Total/NA	mg/L	8	1.0	39.2	☐ 23.876 - 49.599	☐ 25.68 - 56.52
480-10435-I-3	PDE04	9038	Sulfate	Total/NA	mg/L	8	1.0	26.4	☐ 11.308 - 38.717	☐ 12.8 - 37.44
480-10435-J-1	01FB	9038	Sulfate	Total/NA	mg/L	8	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10435-J-2	PDE03	9038	Sulfate	Total/NA	mg/L	8	1.0	32.8	☐ 18.93 - 45.195	☐ 18.48 - 45.84
480-10435-J-4	PDG11R	9038	Sulfate	Total/NA	mg/L	8	2.0	41.5	☐ 31.023 - 64.077	☐ 33.44 - 69.72
480-10440-D-6	MW06A	D516	Sulfate	Total/NA	mg/L	3	1.0	22.2	☐ 9.914 - 51.486	☒ 24.56 - 36.84 <i>OK</i>
480-10440-E-3	MW03A	D516	Sulfate	Total/NA	mg/L	4	5.0	85.2	☐ 48.375 - 107.175	☐ 50.72 - 105.72
480-10440-E-5	MW05A	D516	Sulfate	Total/NA	mg/L	2	2.0	74.3	☒ 43.3 - 64.3	☒ 43.04 - 64.56 <i>OK</i>
480-10441-E-2	MW02C	D516	Sulfate	Total/NA	mg/L	4	1.0	4.9	☐ 0 - 8.058	☐ 0 - 5.52
480-10441-E-3	DUP	D516	Sulfate	Total/NA	mg/L	4	2.0	4.8	☐ 0 - 139.705	☐ 2.64 - 94.68
480-10441-E-4	MW03B	D516	Sulfate	Total/NA	mg/L	4	10.0	208	☐ 137.301 - 236.199	☐ 128 - 246
480-10441-E-5	MW04BR	D516	Sulfate	Total/NA	mg/L	3	1.0	2.7	☐ 0 - 10.99	☒ 2.187 - 3.28 <i>OK</i>
480-10441-E-6	MW05CR	D516	Sulfate	Total/NA	mg/L	3	1.0	2.6	☐ 0 - 8.789	☒ 1.787 - 2.68 <i>OK</i>
480-10441-E-7	MW06C	D516	Sulfate	Total/NA	mg/L	4	2.0	49.0	☐ 11.413 - 75.087	☐ 28.08 - 73.8
480-10443-G-1	RISER	D516	Sulfate	Total/NA	mg/L	4	1.0	4.1	☐ 0 - 12.087	☐ 0 - 8.16
480-10567-H-2	01FB	D516	Sulfate	Total/NA	mg/L	7	1.0	ND	☐ 0 - 0	☐ 0 - 0
480-10567-H-3	MW03U	D516	Sulfate	Total/NA	mg/L	8	2.0	50.1	☐ 20.824 - 60.351	☐ 23.12 - 60.24
480-10567-H-4	MW01D	D516	Sulfate	Total/NA	mg/L	8	2.0	64.6	☐ 17.236 - 123.064	☐ 37.28 - 134.4

Data Review Coversheet—Wet Chemistry Dept

Analysis: AIK

Method: 2320B

Analyst/Primary Reviewer: JRS

Secondary Reviewer: _____

Date of Analytical Run: 10/6/11

Date of Primary Review: 10/7/11

Date of Secondary Review: _____

Prep Batch Number					

Analytical Batch Number	34365				

Criteria for QC	1 st Level	2 nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, $r > \text{or} = 0.995$			✓	
Was Data Imported <u>✓</u> Manually Entered _____ Balance Interface Used _____				
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DUP, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	N			See NCM
Were all DUP or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?			✓	
Are dilution factors all present and correct?			✓	
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			NOTE! The PM and QA Manager must be notified by email <i>immediately</i> of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	Y			NCM #s: 29852

TestAmerica-Buffalo

PC-Titration PLUS

Order Number
20111006-2

Report Date: 10/06/2011
Report Time: 7:17 PM
Run Number
9616.00

SampleID	RunDate	RunTime	cond (uS)	pH	paik-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	Total Hardness (mg/L)	mL 0.02N EDTA	mL 0.02061449 N	Sample Vol. (mL)
H2O-1	10/06/2011	1:41 PM	.00	8.021	.00	115.38	115.38	.00	.00	0.0000	0.0000	0.000	2.80	25.00
H2O-2	10/06/2011	1:49 PM	.00	8.007	.00	94.36	94.36	.00	.00	0.0000	0.0000	0.000	2.29	25.00
CCV	10/06/2011	1:57 PM	.00	10.343	44.23	97.89	9.43	88.46	.00	0.0000	0.0000	0.000	2.37	25.00
CCB	10/06/2011	2:03 PM	.00	5.797	.00	.43	.43	.00	.00	0.0000	0.0000	0.000	.05	25.00
MB	10/06/2011	2:08 PM	.00	5.677	.00	.27	.27	.00	.00	0.0000	0.0000	0.000	.04	25.00
LCS	10/06/2011	2:17 PM	.00	10.422	43.40	94.03	7.22	86.81	.00	0.0000	0.0000	0.000	2.28	25.00
480-10351-K-1	10/06/2011	2:27 PM	.00	7.158	.00	521.80	521.80	.00	.00	0.0000	0.0000	0.000	12.66	25.00
480-10351-K-2	10/06/2011	2:37 PM	.00	6.999	.00	587.78	587.78	.00	.00	0.0000	0.0000	0.000	14.26	25.00
480-10351-K-3	10/06/2011	2:46 PM	.00	6.603	.00	428.83	428.83	.00	.00	0.0000	0.0000	0.000	10.40	25.00
480-10351-K-4	10/06/2011	2:55 PM	.00	6.477	.00	607.83	607.83	.00	.00	0.0000	0.0000	0.000	14.74	25.00
480-10352-J-1	10/06/2011	3:05 PM	.00	7.643	.00	379.83	379.83	.00	.00	0.0000	0.0000	0.000	9.21	25.00
480-10352-J-2	10/06/2011	3:15 PM	.00	7.012	.00	575.01	575.01	.00	.00	0.0000	0.0000	0.000	13.95	25.00
MS 480-10352-J-2	10/06/2011	3:26 PM	.00	7.159	.00	632.76	632.76	.00	.00	0.0000	0.0000	0.000	15.35	25.00
MSD 480-10352-J-2	10/06/2011	3:37 PM	.00	7.218	.00	630.51	630.51	.00	.00	0.0000	0.0000	0.000	15.29	25.00
CCV	10/06/2011	3:45 PM	.00	10.263	42.46	97.67	12.76	84.91	.00	0.0000	0.0000	0.000	2.37	25.00
CCB	10/06/2011	3:52 PM	.00	6.067	.00	.89	.89	.00	.00	0.0000	0.0000	0.000	.12	25.00
480-10352-J-3	10/06/2011	4:00 PM	.00	7.260	.00	295.44	295.44	.00	.00	0.0000	0.0000	0.000	7.17	25.00
480-10352-J-4	10/06/2011	4:11 PM	.00	7.343	.00	591.32	591.32	.00	.00	0.0000	0.0000	0.000	14.34	25.00
480-10352-J-5	10/06/2011	4:21 PM	.00	7.111	.00	582.18	582.18	.00	.00	0.0000	0.0000	0.000	14.12	25.00
480-10352-J-6	10/06/2011	4:30 PM	.00	7.865	.00	294.73	294.73	.00	.00	0.0000	0.0000	0.000	7.15	25.00
480-10352-J-7	10/06/2011	4:38 PM	.00	7.931	.00	284.00	284.00	.00	.00	0.0000	0.0000	0.000	6.89	25.00

Order Number
20111006-2

Report Date: 10/06/2011
Report Time: 8:53 PM

Run Number
9616.00

SampleID	RunDate	RunTime	cond (uS)	pH	pa-k-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	Total Hardness (mg/L)	mL 0.02N EDTA	mL 0.02061449 N	Sample Vol. (mL)
480-10354-F-3	10/06/2011	4:45 PM	.00	7.233	.00	339.56	339.56	.00	.00	0.0000	0.0000	0.000	8.24	25.00
480-10354-F-15	10/06/2011	4:54 PM	.00	7.670	.00	374.53	374.53	.00	.00	0.0000	0.0000	0.000	9.08	25.00
480-10433-G-1	10/06/2011	5:02 PM	.00	7.258	.00	342.41	342.41	.00	.00	0.0000	0.0000	0.000	8.31	25.00
480-10433-G-3	10/06/2011	5:10 PM	.00	7.705	.00	292.85	292.85	.00	.00	0.0000	0.0000	0.000	7.10	25.00
480-10433-F-5	10/06/2011	5:17 PM	.00	7.603	.00	300.65	300.65	.00	.00	0.0000	0.0000	0.000	7.29	25.00
CCV	10/06/2011	5:26 PM	.00	10.340	40.05	94.90	14.80	80.10	.00	0.0000	0.0000	0.000	2.30	25.00
CCB	10/06/2011	5:32 PM	.00	5.815	.00	.49	.49	.00	.00	0.0000	0.0000	0.000	.05	25.00
MB	10/06/2011	5:37 PM	.00	5.735	.00	.39	.39	.00	.00	0.0000	0.0000	0.000	.05	25.00
LCS	10/06/2011	5:46 PM	.00	10.315	39.70	94.05	14.64	79.41	.00	0.0000	0.0000	0.000	2.28	25.00
480-10433-F-6	10/06/2011	5:55 PM	.00	7.740	.00	333.51	333.51	.00	.00	0.0000	0.0000	0.000	8.09	25.00
480-10433-F-15	10/06/2011	6:04 PM	.00	7.620	.00	356.76	356.76	.00	.00	0.0000	0.0000	0.000	8.65	25.00
480-10433-F-19	10/06/2011	6:13 PM	.00	7.688	.00	404.07	404.07	.00	.00	0.0000	0.0000	0.000	9.80	25.00
480-10504-C-2	10/06/2011	6:23 PM	.00	7.837	.00	482.36	482.36	.00	.00	0.0000	0.0000	0.000	11.70	25.00
480-10504-B-9	10/06/2011	6:32 PM	.00	7.623	.00	390.13	390.13	.00	.00	0.0000	0.0000	0.000	9.46	25.00
MS 480-10504-B-9	10/06/2011	6:41 PM	.00	7.710	.00	394.67	394.67	.00	.00	0.0000	0.0000	0.000	9.57	25.00
480-10504-C-7	10/06/2011	6:51 PM	.00	7.661	.00	425.11	425.11	.00	.00	0.0000	0.0000	0.000	10.31	25.00
DJ 480-10504-C-7	10/06/2011	7:00 PM	.00	7.380	.00	437.40	437.40	.00	.00	0.0000	0.0000	0.000	10.61	25.00
CCV	10/06/2011	7:08 PM	.00	10.206	39.33	97.89	19.23	78.66	.00	0.0000	0.0000	0.000	2.37	25.00
CCB	10/06/2011	7:14 PM	.00	5.965	.00	.67	.67	.00	.00	0.0000	0.0000	0.000	.06	25.00

10/4/2011

6:11:00PM

Status Report

AK 100611

Page 1 of 2

WC Available/Received @ 10/4/2011 6:11:00 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Method	Basis Description	HT Expires Prep Chain	Date Sampled SRF	2nd Level Due Assigned To	Result History Job Number	Alt Sample Matrix
10351	480-10351-1 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 08:45	10/10/2011	480-J10351-1	Water
10351	480-10351-2 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 09:45	10/10/2011	480-J10351-1	Water
10351	480-10351-3 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 11:00	10/10/2011	480-J10351-1	Water
10351	480-10351-4 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 00:00	10/10/2011	480-J10351-1	Water
10352	480-10352-1 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 12:00	10/12/2011	480-J10352-1	Water
10352	480-10352-2 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 10:30	10/12/2011	480-J10352-1	Water
10352	480-10352-2MS Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 10:30	10/12/2011	480-J10352-1	Water
10352	480-10352-2MS Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 10:30	10/12/2011	480-J10352-1	Water
10352	480-10352-3 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 11:30	10/12/2011	480-J10352-1	Water
10352	480-10352-4 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 15:15	10/12/2011	480-J10352-1	Water
10352	480-10352-5 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 14:15	10/12/2011	480-J10352-1	Water
10352	480-10352-6 Water	Alkalinity Ready	No	No	2320B	Total/NA	10/11/11 23:59	09/27/11 14:45	10/12/2011	480-J10352-1	Water

1006

10/24/2011

WC Available/Received @ 10/4/2011 6:11:00 PM

Login PM	Lab Sample ID Sample Matrix	Method Description Status	Batch	Rush	Basis Description Method	HT Expires Prep Chain	Date Sampled SRF	2nd Level Due Assigned To	Result History Job Number	Alt Sample Matrix ICOC
10352	480-10352-7 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/27/11 14:30	10/12/2011	480-J10352-1	Water
Alone										
10354	480-10354-3 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/10/11 23:59	09/27/11 10:50	10/13/2011	344.00000,354.00000 480-J10354-1	Water
SDG closed										
10354	480-10354-15 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/10/11 23:59	09/27/11 15:50	10/13/2011	370.00000,402.00000 480-J10354-1	Water
SDG closed										
10433	480-10433-1 Water	Alkalinity Login	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 08:20	10/13/2011	480-J10354-1	Water
10433	480-10433-3 Water	Alkalinity Login	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 11:30	10/13/2011	283.00000,288.00000 480-J10354-1	Water
10433	480-10433-5 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 08:35	10/13/2011	303.00000,299.00000 480-J10354-1	Water
10433	480-10433-6 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 10:55	10/13/2011	318.00000,318.00000 480-J10354-1	Water
10433	480-10433-15 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 10:15	10/13/2011	349.00000,350.00000 480-J10354-1	Water
10433	480-10433-19 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/28/11 16:00	10/13/2011	408.00000,455.00000 480-J10354-1	Water
10504	480-10504-2 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/10/11 23:59	09/26/11 15:40	10/12/2011	480-J10504-1	Water
SDG Status: Alone										
10504	480-10504-7 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/27/11 12:05	10/12/2011	480-J10504-1	Water
SDG Status: Alone										
10504	480-10504-9 Water	Alkalinity Ready	No	No	Total/NA 2320B	10/11/11 23:59	09/27/11 12:55	10/12/2011	480-J10504-1	Water
SDG Status: Alone										

Data Review Coversheet—Wet Chemistry Dept

Analysis: AIK

Method: 2320B

Analyst/Primary Reviewer: JRS

Secondary Reviewer: _____

Date of Analytical Run: 10/8/11

Date of Primary Review: 10/8/11

Date of Secondary Review: _____

Prep Batch Number					

Analytical Batch Number	<u>34618</u>				

Criteria for QC	1 st Level	2 nd Level	n/a	Notes/Comments
Does the calibration meet method requirements? Low point at or below RL, minimum number of calibration points met per SOP, $r > \text{or} = 0.995$			✓	
Was Data Imported <u>✓</u> Manually Entered _____ Balance Interface Used _____	✓			
Were the ICV, CCV and LCS within acceptable limits for QC recovery?	Y			
Were the ICB, CCB and MB all <RL?	Y			
Was there a CCV/CCB combination run after every 10 samples or less?	Y			
Was there an LCS run with every batch of 20 samples or less?	Y			
Was there a DUP, MS or MSD run with every batch of 20 samples or less?	Y			
Were all MS/MSD results within acceptable limits for QC recovery?	Y			
Were all DUP or MSD RPDs within acceptable limits for QC recovery?	Y			
Were the raw data points for samples within the working curve range, or if not were the samples diluted to bring them within this range?			✓	
Are dilution factors all present and correct?			✓	
Do all entries match raw data?	Y			
Were there any holding time violations in this batch?	N			NOTE! The PM and QA Manager must be notified by email <i>immediately</i> of any holding time violations!!
Are all errors crossed out with single line, initialed and dated?	Y			
Were any NCMs needed in the batch?	N			NCM #s:

TestAmerica-Buffalo

3/6/18

PC-Titration PLUS

Order Number
20111007-2

Report Date: 10/07/2011
Report Time: 8:45 PM
Run Number
9620.00

SampleID	RunDate	RunTime	cond (uS)	pH	paik-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	E-ppm	Total Hardness (mg/L)	ml 0.02N EDTA	ml 0.0261449 N	Sample Vol. (mL)
H2O-1	10/07/2011	2:25 PM	.00	7.612	.00	124.73	124.73	.00	.00	0.0000	0.0000	0.000	3.03	25.00
H2O-2	10/07/2011	2:32 PM	.00	7.299	.00	96.87	96.87	.00	.00	0.0000	0.0000	0.000	2.35	25.00
CCV	10/07/2011	2:41 PM	.00	10.318	42.86	93.87	8.14	85.73	.00	0.0000	0.0000	0.000	2.28	25.00
CCB	10/07/2011	2:47 PM	.00	5.779	.00	.40	.40	.00	.00	0.0000	0.0000	0.000	.04	25.00
MB	10/07/2011	2:53 PM	.00	5.680	.00	.34	.34	.00	.00	0.0000	0.0000	0.000	.04	25.00
LCS	10/07/2011	3:01 PM	.00	10.313	43.04	93.57	7.48	86.09	.00	0.0000	0.0000	0.000	2.27	25.00
480-10417-E-1	10/07/2011	3:08 PM	.00	7.347	.00	167.76	167.76	.00	.00	0.0000	0.0000	0.000	4.07	25.00
480-10417-E-2	10/07/2011	3:14 PM	.00	7.165	.00	137.95	137.95	.00	.00	0.0000	0.0000	0.000	3.35	25.00
480-10417-E-2 MS	10/07/2011	3:21 PM	.00	8.996	23.79	202.90	155.33	47.57	.00	0.0000	0.0000	0.000	4.92	25.00
480-10417-E-2 MS	10/07/2011	3:30 PM	.00	9.199	28.32	223.33	166.69	56.64	.00	0.0000	0.0000	0.000	5.42	25.00
480-10417-E-3	10/07/2011	3:37 PM	.00	6.944	.00	61.45	61.45	.00	.00	0.0000	0.0000	0.000	1.49	25.00
480-10417-E-5	10/07/2011	3:45 PM	.00	7.095	.00	65.95	65.95	.00	.00	0.0000	0.0000	0.000	1.60	25.00
480-10417-E-6	10/07/2011	3:52 PM	.00	7.663	.00	189.27	189.27	.00	.00	0.0000	0.0000	0.000	4.59	25.00
480-10417-E-8	10/07/2011	4:00 PM	.00	7.415	.00	167.45	167.45	.00	.00	0.0000	0.0000	0.000	4.06	25.00
CCV	10/07/2011	4:08 PM	.00	10.310	42.32	93.50	8.86	84.64	.00	0.0000	0.0000	0.000	2.27	25.00
CCB	10/07/2011	4:14 PM	.00	5.909	.00	.62	.62	.00	.00	0.0000	0.0000	0.000	.05	25.00
480-10505-C-5	10/07/2011	4:24 PM	.00	7.505	.00	362.13	362.13	.00	.00	0.0000	0.0000	0.000	8.78	25.00
480-10504-B-22	10/07/2011	4:32 PM	.00	7.771	.00	337.48	337.48	.00	.00	0.0000	0.0000	0.000	8.19	25.00
480-10504-A-12	10/07/2011	4:41 PM	.00	7.718	.00	338.02	338.02	.00	.00	0.0000	0.0000	0.000	8.20	25.00
480-10504-B-13	10/07/2011	4:50 PM	.00	7.808	.00	356.41	356.41	.00	.00	0.0000	0.0000	0.000	8.64	25.00
480-10505-D-14	10/07/2011	4:59 PM	.00	7.732	.00	328.35	328.35	.00	.00	0.0000	0.0000	0.000	7.96	25.00

Report Date: 10/07/2011
Report Time: 10:15 PM

Run Number
9620.00

Order Number
20111007-2

SampleID	RunDate	RunTime	cond (uS)	pH	paik-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	Total Hardness (mg/L)	mL 0.02N EDTA	mL 0.02061449 N	Sample Vol. (mL)
480-10505-C-16	10/07/2011	5:07 PM	.00	7.233	.00	334.34	334.34	.00	.00	0.0000	0.0000	0.000	8.11	25.00
480-10505-E-17	10/07/2011	5:16 PM	.00	7.759	.00	325.46	325.46	.00	.00	0.0000	0.0000	0.000	7.89	25.00
480-10504-B-20	10/07/2011	5:24 PM	.00	7.953	.00	211.22	211.22	.00	.00	0.0000	0.0000	0.000	5.12	25.00
480-10505-E-11	10/07/2011	5:33 PM	.00	7.777	.00	339.14	339.14	.00	.00	0.0000	0.0000	0.000	8.23	25.00
1055603	10/07/2011	5:44 PM	.00	7.380	.00	534.56	534.56	.00	.00	0.0000	0.0000	0.000	12.97	25.00
CCV	10/07/2011	5:51 PM	.00	10.269	40.74	93.69	12.22	81.48	.00	0.0000	0.0000	0.000	2.27	25.00
CCB	10/07/2011	5:57 PM	.00	5.807	.00	.42	.42	.00	.00	0.0000	0.0000	0.000	.04	25.00
MB	10/07/2011	6:03 PM	.00	5.634	.00	.29	.29	.00	.00	0.0000	0.0000	0.000	.04	25.00
LCS	10/07/2011	6:11 PM	.00	10.071	40.88	96.07	14.32	81.75	.00	0.0000	0.0000	0.000	2.33	25.00
480-10556-O-6	10/07/2011	6:26 PM	.00	6.272	.00	1,003.59	1,003.59	.00	.00	0.0000	0.0000	0.000	24.34	25.00
480-10556-O-2	10/07/2011	6:37 PM	.00	7.579	.00	616.43	616.43	.00	.00	0.0000	0.0000	0.000	14.95	25.00
480-10556-O-2 MS	10/07/2011	6:48 PM	.00	7.789	.00	652.11	652.11	.00	.00	0.0000	0.0000	0.000	15.82	25.00
480-10556-O-2 MSP	10/07/2011	7:00 PM	.00	7.929	.00	668.64	668.64	.00	.00	0.0000	0.0000	0.000	16.22	25.00
480-10556-O-1	10/07/2011	7:15 PM	.00	6.324	.00	1,003.79	1,003.79	.00	.00	0.0000	0.0000	0.000	24.35	25.00
480-10558-E-3	10/07/2011	7:33 PM	.00	6.661	.00	1,290.80	1,290.80	.00	.00	0.0000	0.0000	0.000	31.31	25.00
480-10558-E-2	10/07/2011	7:43 PM	.00	6.610	.00	650.14	650.14	.00	.00	0.0000	0.0000	0.000	15.77	25.00
480-10558-E-1	10/07/2011	7:56 PM	.00	6.819	.00	800.68	800.68	.00	.00	0.0000	0.0000	0.000	19.42	25.00
CCV	10/07/2011	8:04 PM	.00	9.924	34.47	96.21	27.27	68.95	.00	0.0000	0.0000	0.000	2.33	25.00
CCB	10/07/2011	8:09 PM	.00	5.621	.00	.52	.52	.00	.00	0.0000	0.0000	0.000	.05	25.00
480-10556-O-5	10/07/2011	8:18 PM	.00	7.712	.00	421.13	421.13	.00	.00	0.0000	0.0000	0.000	10.21	25.00
480-10556-O-4	10/07/2011	8:29 PM	.00	7.375	.00	510.67	510.67	.00	.00	0.0000	0.0000	0.000	12.39	25.00
CCV	10/07/2011	8:37 PM	.00	10.167	37.64	93.91	18.62	75.29	.00	0.0000	0.0000	0.000	2.28	25.00
CCB	10/07/2011	8:42 PM	.00	5.809	.00	.43	.43	.00	.00	0.0000	0.0000	0.000	.05	25.00

WC Available/Received @ 10/7/2011 12:24:05 PM

Login PM	Lab Sample ID	Method Description	Status	Batch	Rush	Method	Basis Description	Prep Chain	HT Expires	Date Sampled	SRF	2nd Level Due	Assigned To	Result History	Job Number	Alt Sample Matrix	ICOC
10417	480-10417-1	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	10:40	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-2	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	11:50	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-2MS	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	11:50	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-2MS	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	11:50	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-3	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	14:00	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-5	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	15:00	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-6	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	15:40	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10417	480-10417-8	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	00:00	10/10/2011		480-J10417-1	Water	
PG	Water																
SDG closed(10/3/11); L4Reviewed:																	
10504	480-10504-12	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	14:55	10/12/2011		480-J10504-1	Water	
CF	Water																
SDG Status: Alone																	
10504	480-10504-13	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	16:55	10/12/2011		480-J10504-1	Water	
CF	Water																
SDG Status: Alone																	
10504	480-10504-20	Alkalinity	Ready	No	No	2320B	Total/NA		10/13/11	23:59	09/29/11	12:45	10/12/2011		480-J10504-1	Water	
CF	Water																
SDG Status: Alone																	
10504	480-10504-22	Alkalinity	Ready	No	No	2320B	Total/NA		10/12/11	23:59	09/28/11	00:00	10/12/2011		480-J10504-1	Water	
CF	Water																
SDG Status: Alone																	

JOE

WC Available/Received @ 10/7/2011 12:23:05 PM

PM	Lab Sample ID	Method Description	Batch	Rush	Method	Basis Description	HT Expires	Date Sampled	2nd Level Due	Result History	Alt Sample Matrix
	Sample Matrix	Status					Prep Chain	SRF	Assigned To	Job Number	
10505	480-10505-5	Alkalinity	No	No	Total/NA		10/12/11	23:59	09/29/11 14:55	10/14/2011	352.00000, 343.00000
AEB	Water	Ready			2320B						480-J10505-1 Water
SDG Closed											
10505	480-10505-11	Alkalinity	No	No	Total/NA		10/12/11	23:59	09/29/11 09:37	10/14/2011	342.00000, 355.00000
AEB	Water	Ready			2320B						480-J10505-1 Water
SDG Closed											
10505	480-10505-14	Alkalinity	No	No	Total/NA		10/12/11	23:59	09/29/11 08:40	10/14/2011	340.00000, 341.00000
AEB	Water	Ready			2320B						480-J10505-1 Water
SDG Closed											
10505	480-10505-16	Alkalinity	No	No	Total/NA		10/12/11	23:59	09/29/11 14:00	10/14/2011	319.00000, 335.00000
AEB	Water	Ready			2320B						480-J10505-1 Water
SDG Closed											
10505	480-10505-17	Alkalinity	No	No	Total/NA		10/12/11	23:59	09/29/11 15:55	10/14/2011	310.00000, 287.00000
AEB	Water	Ready			2320B						480-J10505-1 Water
SDG Closed											
10556	480-10556-1	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 09:40	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-2	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 12:00	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-2MS	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 12:00	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-2MS	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 12:00	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-3	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 15:25	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-4	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 15:14	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											
10556	480-10556-5	Alkalinity	No	No	Total/NA		10/13/11	23:59	09/29/11 14:00	10/12/2011	480-J10556-1 Water
BF	Water	Ready			2320B						
standalone											

WC Available/Received @ 10/7/2011 12:25:05PM

Login PM	Lab Sample ID	Method Description	Status	Batch	Rush	Method	Basis Description	Prep Chain	HT Expires	Date Sampled SRF	2nd Level Due Assigned To	Result History Job Number	Alt Sample Matrix
10556	480-10556-6	Alkalinity	Ready	No	No	2320B	Total/NA		10/13/11 23:59	09/29/11 00:00	10/12/2011	480-J10556-1	Water
BF	Water												
standalone													
10558	480-10558-1	Alkalinity	Ready	No	No	2320B	Total/NA		10/13/11 23:59	09/29/11 09:12	10/12/2011	480-J10558-1	Water
BF	Water												
standalone													
10558	480-10558-2	Alkalinity	Ready	No	No	2320B	Total/NA		10/13/11 23:59	09/29/11 12:05	10/12/2011	480-J10558-1	Water
BF	Water												
standalone													
10558	480-10558-3	Alkalinity	Ready	No	No	2320B	Total/NA		10/13/11 23:59	09/29/11 13:07	10/12/2011	480-J10558-1	Water
BF	Water												
standalone													

ICOC

Historical Data Summary Report

For Batch 34618

Lab Sample ID	Client Sample	Method	Analyte	Prep Type	Unit	Data			Result	Fail 3-Sigma Limits		Fail Client Limits	
						Points	Dilution						
480-10505-C-16	MW-36	2320B	Alkalinity, Total	Total/NA	mg/L	2	1.0		334	☐	303 - 351	☐	261.6 - 392.4
480-10505-C-5	MW-5	2320B	Alkalinity, Total	Total/NA	mg/L	2	1.0		362	☒	334 - 361	☐	278 - 417
480-10505-D-14	MW-18	2320B	Alkalinity, Total	Total/NA	mg/L	2	1.0		328	☒	339 - 342	☐	272.4 - 408.6
480-10505-E-11	MW-32	2320B	Alkalinity, Total	Total/NA	mg/L	2	1.0		339	☐	329 - 368	☐	278.8 - 418.2
480-10505-E-17	MW-8	2320B	Alkalinity, Total	Total/NA	mg/L	2	1.0		325	☐	264 - 333	☐	238.8 - 358.2

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Batch Number: 35511 Batch Start Date: 10/14/11 05:44 Batch Analyst: Nyznyk, PeterBatch Method: D516-90, 02 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Sulf 30ppm 00004				
CCV 480-35511/41		D516-90, 02		2 mL	# mL				
CCB 480-35511/42		D516-90, 02		2 mL					
LCS 480-35511/43		D516-90, 02		2 mL	# mL				
MB 480-35511/44		D516-90, 02		2 mL					
CCV 480-35511/50		D516-90, 02		2 mL	# mL				
CCB 480-35511/51		D516-90, 02		2 mL					
CCV 480-35511/58		D516-90, 02		2 mL	# mL				
CCB 480-35511/59		D516-90, 02		2 mL					
CCV 480-35511/62		D516-90, 02		2 mL	# mL				
CCB 480-35511/63		D516-90, 02		2 mL					
480-10504-A-2	A2-PZ1	D516-90, 02	T	2 mL					
CCV 480-35511/66		D516-90, 02		2 mL	# mL				
CCB 480-35511/67		D516-90, 02		2 mL					
480-10504-B-7	A1-PZ2	D516-90, 02	T	2 mL					
CCV 480-35511/77		D516-90, 02		2 mL	# mL				
CCB 480-35511/78		D516-90, 02		2 mL					
LCS 480-35511/79		D516-90, 02		2 mL	# mL				
MB 480-35511/80		D516-90, 02		2 mL					
480-10504-B-9	PZ-13R	D516-90, 02	T	2 mL					
CCV 480-35511/86		D516-90, 02		2 mL	# mL				
CCB 480-35511/87		D516-90, 02		2 mL					

Batch Notes	

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Batch Number: 35511 Batch Start Date: 10/14/11 05:44 Batch Analyst: Nyznyk, PeterBatch Method: D516-90, 02 Batch End Date: _____

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Batch Number: 35987 Batch Start Date: 10/18/11 09:03 Batch Analyst: Nyznyk, PeterBatch Method: D516-90, 02 Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	FinalAmount	Sulf 30ppm 00005				
CCV 480-35987/4		D516-90, 02		2 mL	# mL				
CCB 480-35987/5		D516-90, 02		2 mL					
LCS 480-35987/6		D516-90, 02		2 mL	# mL				
MB 480-35987/7		D516-90, 02		2 mL					
CCV 480-35987/17		D516-90, 02		2 mL	# mL				
CCB 480-35987/18		D516-90, 02		2 mL					
480-10504-B-13	MW-3	D516-90, 02	T	2 mL					
480-10504-A-22	DUP-092811	D516-90, 02	T	2 mL					
480-10504-A-20	MW-10	D516-90, 02	T	2 mL					
480-10504-B-12	MW-1	D516-90, 02	T	2 mL					
CCV 480-35987/27		D516-90, 02		2 mL	# mL				
CCB 480-35987/28		D516-90, 02		2 mL					

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Batch Number: 34365 Batch Start Date: 10/06/11 13:41 Batch Analyst: Stredny, JosephBatch Method: SM 2320B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WC_100ppm Alk 00018	WC_alk1000ppm 00022	
CCV 480-34365/27		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCB 480-34365/28		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			
MB 480-34365/29		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			
LCS 480-34365/30		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
480-10504-C-2	A2-PZ1	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-B-9	PZ-13R	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-B-9 MS	PZ-13R	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL		2.5 mL	
480-10504-C-7	A1-PZ2	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-C-7 DU	A1-PZ2	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
CCV 480-34365/39		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCB 480-34365/40		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-10504-1

SDG No.: _____

Batch Number: 34618 Batch Start Date: 10/07/11 14:25 Batch Analyst: Stredny, JosephBatch Method: SM 2320B Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	CalcMsg	FinalAmount	WC_100ppm Alk 00018		
CCV 480-34618/3		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCB 480-34618/4		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			
MB 480-34618/5		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			
LCS 480-34618/6		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCV 480-34618/15		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCB 480-34618/16		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-B-22	DUP-092811	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-A-12	MW-1	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-B-13	MW-3	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
480-10504-B-20	MW-10	SM 2320B	T	25 mL	Titrant1Normali ty is blank	25 mL			
CCV 480-34618/27		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL	# mL		
CCB 480-34618/28		SM 2320B		25 mL	Titrant1Normali ty is blank	25 mL			

Batch Notes	

Basis	Basis Description
T	Total/NA

Shipping and Receiving Documents

FD

Chain of Custody Record

Client Information Client Contact: Mr. Dan Zuck Company: ARCADIS U.S. Inc. Address: 6723 Township PO BOX 66 City: Syracuse State Zc: NY 13214-0058 Phone: 518-452-7828(Tel) 518-452-4398(Fax) Email: dan.zuck@arcadis-us.com Project Name: Lockheed Martin Corporation Site: New York		Sample: D. Zuck Phone: 516-369-2741 Lab PM: Fox, Candace E-Mail: candace.fox@testamerica.com		CQC No: 480-16790-4020.1 Page: Page 1 of 2 Job #: NJ001036.1.1																																																																																																													
Analysis Requested Due Date Requested: TAT Requested (days): 2 WK PO #: NJ001016.0001 WO #: 48002828 Project #: 48002828 SSOW:																																																																																																																	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - NaOH G - Ascorbic Acid H - Ascorbic Acid I - Ice J - DN Water K - EDTA L - EDA Other:																																																																																																																	
Special Instructions/Note: Total Number of Containers:																																																																																																																	
Field Filtered Samples (Yes or No) Field Filtered Samples (Yes or No):																																																																																																																	
Sample Identification <table border="1"> <thead> <tr> <th>Sample Identification</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (G=Grab)</th> <th>Preservation Code</th> <th>Matrix (H=Water, P=Preserve, G=Grab, A=Air)</th> <th>Field Filtered Samples (Yes or No)</th> <th>Analysis Requested</th> <th>Special Instructions/Note</th> </tr> </thead> <tbody> <tr> <td>PZ-26</td> <td>9/26/11</td> <td>1135</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>AZ-PZ1</td> <td>9/26/11</td> <td>1540</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>AZ-PZ7</td> <td>9/26/11</td> <td>1605</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PZ-27</td> <td>9/27/11</td> <td>1015</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-4</td> <td>9/27/11</td> <td>1055</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-135</td> <td>9/27/11</td> <td>1135</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>A1-PZ2</td> <td>9/27/11</td> <td>1205</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PZ-18</td> <td>9/27/11</td> <td>1235</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>PZ-13R</td> <td>9/27/11</td> <td>1255</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-2</td> <td>9/27/11</td> <td>1405</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> <tr> <td>MW-5</td> <td>9/28/11</td> <td>1425</td> <td>G</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>						Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab)	Preservation Code	Matrix (H=Water, P=Preserve, G=Grab, A=Air)	Field Filtered Samples (Yes or No)	Analysis Requested	Special Instructions/Note	PZ-26	9/26/11	1135	G		Water				AZ-PZ1	9/26/11	1540	G		Water				AZ-PZ7	9/26/11	1605	G		Water				PZ-27	9/27/11	1015	G		Water				MW-4	9/27/11	1055	G		Water				MW-135	9/27/11	1135	G		Water				A1-PZ2	9/27/11	1205	G		Water				PZ-18	9/27/11	1235	G		Water				PZ-13R	9/27/11	1255	G		Water				MW-2	9/27/11	1405	G		Water				MW-5	9/28/11	1425	G		Water			
Sample Identification	Sample Date	Sample Time	Sample Type (G=Grab)	Preservation Code	Matrix (H=Water, P=Preserve, G=Grab, A=Air)	Field Filtered Samples (Yes or No)	Analysis Requested	Special Instructions/Note																																																																																																									
PZ-26	9/26/11	1135	G		Water																																																																																																												
AZ-PZ1	9/26/11	1540	G		Water																																																																																																												
AZ-PZ7	9/26/11	1605	G		Water																																																																																																												
PZ-27	9/27/11	1015	G		Water																																																																																																												
MW-4	9/27/11	1055	G		Water																																																																																																												
MW-135	9/27/11	1135	G		Water																																																																																																												
A1-PZ2	9/27/11	1205	G		Water																																																																																																												
PZ-18	9/27/11	1235	G		Water																																																																																																												
PZ-13R	9/27/11	1255	G		Water																																																																																																												
MW-2	9/27/11	1405	G		Water																																																																																																												
MW-5	9/28/11	1425	G		Water																																																																																																												
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:																																																																																																																	
Empty Kit Requisitioned by: Requisitioned by: Dan Zuck Date/Time: 9/29/11 1700 Company: Friends Requisitioned by: Date/Time: Company: Requisitioned by: Date/Time: Company:																																																																																																																	
Custody Seal No.: A Yes B No Cooler Temperature(s) °C and Other Remarks: 202.3																																																																																																																	

Client Information		Lab PIA		Lab Tracking No(s)		COC No.	
Client Contact: Mr. Dan Zuck		Fox Candace E-Mail: candace.fox@viamericaninc.com		480-16790-4020.2		Page 2 of 3	
Company: ARCADIS U.S., Inc.		Lab PIA: Fox Candace		Lab Tracking No(s):		COC No.: 480-16790-4020.2	
Address: 6723 Towne PO BOX 66 Syracuse NY, 13214-0066		E-Mail: candace.fox@viamericaninc.com		Lab Tracking No(s):		COC No.: 480-16790-4020.2	
Phone: 518-452-7826(Tel) 518-452-4398(Fax)		Lab Tracking No(s):		COC No.: 480-16790-4020.2		Page 2 of 3	
Email: dan.zuck@arcadis-us.com		Lab Tracking No(s):		COC No.: 480-16790-4020.2		Page 2 of 3	
Project Name: Lockhead Martin Corporation		Lab Tracking No(s):		COC No.: 480-16790-4020.2		Page 2 of 3	
Site: New York		Lab Tracking No(s):		COC No.: 480-16790-4020.2		Page 2 of 3	
Sample Identification		Due Date Requested:		Analysis Requested		Special Instructions/Note:	
MW-1	9/28/11 1455	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
MW-3	9/28/11 1655	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
PZ-7	9/28/11 1400	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
PZ-6	9/28/11 1825	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
PZ-5	9/28/11 1850	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
PZ-4	9/28/11 1915	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
MW-14BR	9/29/11 1015	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
PZ-11R	9/29/11 1115	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
MW-10	9/29/11 1245	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
TB-092911	9/29/11	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
DUP-092811	9/28/11	Water	Preservation Code: G	Field Filtered Sample (Yes or No):	Sample Type (G=grab, C=comp, S=static, etc.):	Sample Date	Sample Time
Possible Hazard Identification		Empty Kit Relinquished by:		Date:		Time:	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Relinquished by: Daniel Zuck Date/Time: 9/29/11 1700 Company: Fox		Relinquished by: Daniel Zuck Date/Time: 9/29/11 1000 Company: Fox		Relinquished by: Daniel Zuck Date/Time: 9/29/11 1000 Company: Fox	
Custody Seal No.:		Custody Seal No.:		Custody Seal No.:		Custody Seal No.:	
☐ Yes ☐ No		☐ Yes ☐ No		☐ Yes ☐ No		☐ Yes ☐ No	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Login Number: 10504

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	ARCADIS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

**APPENDIX F—
SEPTEMBER 2011 GROUNDWATER SAMPLING LOGS**

GROUNDWATER SAMPLING LOG

Well No. MW-1
Key No. 2537
PID Background (ppm) NA
Well Headspace (ppm) NA

Site Name LMC (525 French Road Utica, NY)
Sampling Personnel D. Zuck
Date 9/28/11
Weather Overcast ~ 73°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point - Meas. From TOC
Well Diameter 4"
Screen Interval Depth 7.717' Meas. From TOC
Water Table Depth 8.10 Meas. From TIC
Well Depth 17.38 Meas. From TIC
Length of Water Column 9.28
Volume of Water in Well ~6.1
Intake Depth of Pump/Tubing 12.5' Meas. From TIC

Sample Time 1455
Sample ID MW-1
Duplicate ID DUP-092811
MS/MSD NA
Split Sample ID NA

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
TOC: Top of Outer (Protective) Casing
Grade/BGS: Ground Surface

Re-develop? Y (N)

Well Inventory Form Completed? Y N

EVACUATION INFORMATION

Pump Start Time 1310
Pump Stop Time 7:15
Minutes of Pumping 5:05
Volume of Water Removed ~7 gal
Did Well Go Dry? Y (N)

Required	Analytical Parameters:	Collected
(X)	VOCs (Standard List)	(3) + 3
()	VOCs (Expanded List)	()
(X)	~~SVOCs~~ methane	(2) + 2
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
(X)	Natural Attenuation <u>Alk</u>	(1) + 1
(X)	Other (Specify) <u>Sulfate/Nitrate</u>	(2) + 2

Evacuation Method: Bailer () Bladder Pump ()
Peristaltic Pump (X) Submersible Pump () Other/Specify ()
Pump Type: _____
Samples collected by same method as evacuation? Y N (specify)

Water Quality Meter Type(s) / Serial Numbers:

YSI 556 MPS #10929 / YSI 85 #02F0176

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1310	.200	-	8.10	18.75	6.88	1.135	-	5.03	195.0
1315			8.31	18.41	6.75	1.363		1.05	212.0
1320			8.55	18.47	6.77	1.355		0.39	211.5
1325			8.72	18.50	6.83	1.324		0.35	205.5
1330			8.85	18.49	6.86	1.283		0.42	194.6
1335		1.25	8.96	18.57	6.87	1.247		0.41	186.9
1340			9.03	18.59	6.89	1.262		0.51	179.0
1345	✓			18.58	6.90	1.242		0.62	170.9

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Fe: 0.01 mg/L

SAMPLE DESTINATION

Laboratory: Test America
Delivered Via: UPS
Airbill #: _____

Field Sampling Coordinator: D. Zuck

GROUNDWATER SAMPLING LOG

Well-No. MW-1

Site/GMA Name LML (525 French Road Utica NY)
Sampling Personnel D. Zuck
Date 9/28/11
Weather Overcast ~72°F

WELL INFORMATION - See Page 1

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1350	200	2.75	9.19	14.57	6.91	1.259	—	0.57	165.1
1355	200		9.21	18.58	6.91	1.292		0.57	162.3
1400			9.23	18.58	6.91	1.352		0.54	158.4
1405			9.26	18.50	6.92	1.448		0.48	153.6
1410			9.29	18.43	6.91	1.514		0.44	146.7
1415		~4	9.31	18.40	6.91	1.525		0.38	144.9
1420			9.32	18.42	6.91	1.573		0.38	140.7
1425			9.33	18.40	6.91	1.614		0.34	137.2
1430			9.35	18.42	6.92	1.673		0.31	132.9
1435			9.38	18.45	6.92	1.699		0.28	130.4
1440			9.40	18.49	6.92	1.720		0.26	127.1
1445		6.25	9.41	18.44	6.93	1.749		0.25	124.1
1450			9.42	18.45	6.92	1.764		0.24	121.2
Sample collected @ 1455									

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Down Hole DO Reading: 0.18 mg/L



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NT001031.1
 Site Location KM 525 French Road, Utica NY Date 9/27/11
 Well No. MW-2 Replicate No. NA Weather P/c → Lt Rain 70°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1805 End 1810

Purge Data

Field Parameters

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 16.28
 Depth to Water (ft bmp) 5.56
 Water Column in Well (ft) 10.72
 Casing Diameter 4"
 Gallons in Well 7
 Gallons Purged
 Prior to Sampling x3 = 21
 Evacuation Method Grout Box Red-Flow
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) 10 → 16'
 Pumping Rate (gpm) 0.75 →
 Purge Time Begin 1730 End

Color None
 Odor None
 Appearance Clear

	1	1V	2V	3V
Time	1730	1739	1748	1757
DTW (ft bmp)	5.56	6.45	6.45	6.53
pH (s.u.)	7.14	7.30	7.31	7.29
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	2.048	1.826	1.824	1.831
Temperature (°C)	18.72	18.78	19.35	19.39
DO (mg/L)	0.04	0.48	0.53	0.60
ORP (mV)	-149.7	-118.0	-124.9	-122.4
Turbidity (NTU)				

Remarks:

* Do Collard using Down Hole meter VSI 85

Parameter	Container	No.	Preservative
VOCs	40 ml Vials	3	HCl

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

GROUNDWATER SAMPLING LOG

Well No. MW-3 Site Name LML Utica NY (525 French Road)
Key No. 2537 Sampling Personnel D. Zuck
PID Background (ppm) NA Date 9/28/11
Well Headspace (ppm) NA Weather Overcast 272°F

WELL INFORMATION

Reference Point Marked? Y N
Height of Reference Point + 2' Meas. From ALS
Well Diameter 2"
Screen Interval Depth 3-713' Meas. From BLS
Water Table Depth 10.50 Meas. From TIC
Well Depth 15.02 Meas. From TIC
Length of Water Column 4.52
Volume of Water in Well 0.72
Intake Depth of Pump/Tubing ~13' Meas. From TIC

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
TOC: Top of Outer (Protective) Casing
Grade/BGS: Ground Surface

Re-develop? Y (N)

Well Inventory Form Completed? Y (N)

EVACUATION INFORMATION

Pump Start Time 1515
Pump Stop Time 1705
Minutes of Pumping 110
Volume of Water Removed ~7
Did Well Go Dry? Y N

Sample Time 1655
Sample ID MW-3
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Required	Analytical Parameters:	Collected
(X)	VOCs (Standard List)	(3)
()	VOCs (Expanded List)	()
()	SVOCs	()
()	PCBs (Unfiltered)	()
()	PCBs (Filtered)	()
()	Metals/Inorganics (Unfiltered)	()
()	Metals/Inorganics (Filtered)	()
()	Total Cyanide (Unfiltered)	()
()	Total Cyanide (Filtered)	()
()	PAC Cyanide (Filtered)	()
()	PCDDs/PCDFs	()
()	Pesticides/Herbicides	()
(X)	<u>Alk</u> Natural Attenuation	(1)
(X)	<u>Seif/Amb</u> Other (Specify)	(2)
(X)	<u>methaq</u>	(2)

Evacuation Method: (X) Bailer () Bladder Pump ()
Peristaltic Pump (X) Submersible Pump () Other/Specify ()
Pump Type: (X)
Samples collected by same method as evacuation? (Y) N (specify)

Water Quality Meter Type(s) / Serial Numbers:

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1515	200	—	10.50	18.56	6.98	0.514	—	5.54	119.4
1520			11.22	18.53	6.92	0.470		5.49	121.7
1525			11.33	18.48	6.84	0.619		5.00	123.5
1530			11.55	18.37	6.84	0.696		4.53	116.0
1535			11.63	18.25	6.84	0.788		4.01	113.1
1540			11.79	18.03	6.83	0.937		3.21	110.0
1545			11.80	17.96	6.83	1.153		2.38	107.4
1550	✓	~22.5	11.81	17.94	6.84	1.282	—	1.99	105.7

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Fe: 0.00 mg/L

SAMPLE DESTINATION

Laboratory: TAL
Delivered Via: UPS
Airbill #: _____

Field Sampling Coordinator: D. Zuck

Well No. MW-3

Site/GMA Name LMC (525 French Road Utica NY)
Sampling Personnel D. Zuck
Date 9/28/11
Weather overcast

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10 mV]*
1555	200		11.82	17.97	6.85	1.399	—	1.64	103.6
1600	↓		11.88	17.96	6.87	1.532	↓	1.35	101.4
1605		~3.5	11.88	17.97	6.88	1.660		1.10	99.1
1615			11.93	17.97	6.89	1.772		0.97	96.0
1625			12.01	17.98	6.91	1.890		0.74	93.5
1635			12.03	17.96	6.92	1.943		0.72	90.8
1640			12.04	17.91	6.92	1.956		0.73	90.2
1645	↓	~7	12.05	17.89	6.93	1.966	↓	0.71	89.6
Estimated Sample @ 1655									

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

OBSERVATIONS/SAMPLING METHOD DEVIATIONS Down Hole DO Ready: 0.04mg/L
Sample: Clear, no visible turbidity, No odor



Water Sampling Log

Project LMC Project No. NJ001031.1.1
Site Location 525 Fresh Road Utica, NY Date 9/27/11 9/28/11
Well No. MW-5 Replicate No. NA Weather P/C ~ 75°F Wind
Sampling Personnel D. Zuck Sampling Time: Begin 1425 End 1430

Purge Data

Measuring Point (describe) TIC
Sounded Well Depth (ft bmp) 5.84
Depth to Water (ft bmp) 3.93
Water Column in Well (ft) 1.91
Casing Diameter 0.315
Gallons in Well 2" ↓
Gallons Purged
Prior to Sampling 3V = 0.92
Evacuation Method Bar/lor
Sampling Method Bar/lor
Pump Intake
Setting (ft bmp) NA
Pumping Rate (gpm) NA
Purge Time Begin 1110 End

Field Parameters

Color Dark Gray
Odor None
Appearance V. Turbid
Time 1110 (1) Sample 3V 1425
DTW (ft bmp) 3.93 4.68
pH (s.u.) 6.77 6.81
Conductivity (mS/cm) or (µmhos/cm)¹⁾ 7.580 9.422
Temperature (°C) 21.25 21.06
DO (mg/L) 1.42 (3) 0.03
ORP (mV) 7.9 -55.1
Turbidity (NTU)

Remarks:

(1) Well was Dry following 1V. Reared.
(2) DO collateral using Down Hole Probe YSI 85
* Dark Gray Sediment on probe tip, Very Heavy amounts of silt in purge (Reared)

Parameter VOCs Container 40 mL Vials No. 3 Preservative HCl

PID Reading

NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01) 3/4" = 0.023 (0.087) 1 1/4" = 0.064 2" = 0.163 3" = 0.367 4" = 0.653
1/2" = 0.01 (0.039) 1" = 0.041 (0.154) 1 1/2" = 0.092 2 1/2" = 0.26 3 1/2" = 0.50 6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. NY001031.1.1
 Site Location 525 French Road Utica, NY Date 9/27/11 + 9/28/11
 Well No. PZ-6 Replicate No. NA Weather Inside
 Sampling Personnel D. Zuck Sampling Time: Begin 1825 End 1840

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 10.40
 Depth to Water (ft bmp) 9.14
 Water Column in Well (ft) 1.36
 Casing Diameter (ID) 1.25
 Gallons in Well 0.09
 Gallons Purged
 Prior to Sampling 0.26 = 3V
 Evacuation Method Barlar
 Sampling Method Barlar
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1620 End 1630

Field Parameters

	I	1V	Final 2V	3V
Color	<u>Brown</u>			
Odor	<u>Slight</u>			
Appearance	<u>Turbid</u>			
Time	<u>1620</u>	<u>*</u>	<u>1820^{9/28}</u>	
DTW (ft bmp)	<u>9.14</u>		<u>9.99</u>	
pH (s.u.)	<u>7.11</u>			
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	<u>1.666</u>			
Temperature (°C)	<u>21.60</u>		<u>21.4</u>	
DO (mg/L)	<u>1.70</u>		<u>(1) 0.32</u>	
ORP (mV)	<u>12.4</u>			
Turbidity (NTU)				

Remarks:

* well wat Dry after 1V removed
(1) DO collected using Down Hole probe YSI 85
Well wat Dry following the filling of 2 vials, no parameters available.

Parameter	Container	No.	Preservative
<u>VOCs</u>	<u>40 mL Vials</u>	<u>X 2</u>	<u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. NT001031.1
 Site Location 525 French Road Utica, NY Date 4/27/11 + 4/28/11
 Well No. PZ-7 Replicate No. NA Weather Fair
 Sampling Personnel D. Zuck Sampling Time: Begin 1400 End 1805

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 10.45
 Depth to Water (ft bmp) 8.85
 Water Column in Well (ft) 1.6
 Casing Diameter (ID) 1.25"
 Gallons in Well 0.1
 Gallons Purged
 Prior to Sampling 3V = 0.3
 Evacuation Method Boiler
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1553 End 1615

Field Parameters

Color L+ Brown
 Odor None
 Appearance Turbid

	I	1V	Sample 2V	3V
Time	1554	*	1755	
DTW (ft bmp)	8.85		8.88	
pH (s.u.)	6.84		7.18	
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	1.017		1.389	
Temperature (°C)	22.41		21.20	
DO (mg/L)	2.72		(1) 1.81	
ORP (mV)	-36.0		-20.0	
Turbidity (NTU)				

Remarks: * well went Dry following Removal of 1V.
(1) DO collected using Down Hole probe VSD 85

Parameter	Container	No.	Preservative
VOCs	40 mL Vial	3	HCl

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. NJ001031.1.1
 Site Location 525 French Road Utica NY Date 9/27/11 + 9/28/11
 Well No. PZ-5 Replicate No. NA Weather Indoors
 Sampling Personnel D. Zuck Sampling Time: Begin 1850 End 1905

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 10.78
 Depth to Water (ft bmp) 8.86
 Water Column in Well (ft) 1.92
 Casing Diameter (ID) 1.25
 Gallons in Well 0.12
 Gallons Purged
 Prior to Sampling 3V = 0.36
 Evacuation Method Bailer
 Sampling Method Bailer
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1645 End 1655

Field Parameters

Color L + Brown
 Odor Some sulfur like odor
 Appearance turbid

	I	1V	2V	3V
Time	1645	*	1845	
DTW (ft bmp)	8.66		10.39	
pH (s.u.)	7.79			
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	1.372			
Temperature (°C)	21.42		21.1	
DO (mg/L)	0.85		(1) 0.29	
ORP (mV)	-139.2			
Turbidity (NTU)				

Remarks:

* Well was Dry after 1V Removal
 (1) DO Reading collected using Down Hole probe YSI 85
 Parameters for sample were unable to be collected due to low well volume, 2 vials filled.

Parameter <u>VOCs</u>	Container <u>40 ml Vials</u>	No. <u>2</u>	Preservative <u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. N7001031.1
Site Location Utica NY (525 French Road) Date 9/27/11
Well No. PZ-8 Replicate No. NA Weather Indoors
Sampling Personnel D. Zuck Sampling Time: Begin 1915 End 1925

Purge Data

Measuring Point (describe) TFC
Sounded Well Depth (ft bmp) 9.81
Depth to Water (ft bmp) 9.23
Water Column in Well (ft) 0.58
Casing Diameter 1"
Gallons in Well 0.02
Gallons Purged
Prior to Sampling 0.06 = 3V
Evacuation Method Bar/lor
Sampling Method Bar/lor
Pump Intake
Setting (ft bmp) NA
Pumping Rate (gpm) NA
Purge Time Begin 1705 End 1707

Field Parameters

Color LT Brown
Odor None
Appearance Turbid
Time 1705 X 1910
DTW (ft bmp) 9.23 8.90
pH (s.u.) 6.76
Conductivity (mS/cm) or (µmhos/cm)¹⁾ 1.316
Temperature (°C) 19.64 18.7
DO (mg/L) 4.18 (1) 0.89
ORP (mV) 73.7
Turbidity (NTU)

Remarks:

* well was Dry following removing 1V.
(1) Do Reedy collected using Down Hole Probe YSI 85
Parameters for sample were unavailable due to low well volume.

Parameter	Container	No.	Preservative
<u>VOCs</u>	<u>40 mL vials</u>	<u>3</u>	<u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

GROUNDWATER SAMPLING LOG

Well No. MW-10 Site Name LML (525 French Road Utica, NY)
Key No. 2537 Sampling Personnel D. Zuck
PID Background (ppm) NA Date 9/29/11
Well Headspace (ppm) NA Weather Overcast ~70°F

WELL INFORMATION

Reference Point Marked? (Y) N
Height of Reference Point — Meas. From BLS
Well Diameter 2"
Screen Interval Depth — Meas. From BLS
Water Table Depth 4.15 Meas. From BMP/TIC
Well Depth 12.65 Meas. From BMP/TIC
Length of Water Column 8.5
Volume of Water in Well 1.36
Intake Depth of Pump/Tubing ~8' Meas. From BMP/TIC

Sample Time 1245
Sample ID MW-10
Duplicate ID NA
MS/MSD NA
Split Sample ID NA

Reference Point Identification:

TIC: Top of Inner (PVC) Casing
TOC: Top of Outer (Protective) Casing
Grade/BGS: Ground Surface

Re-develop? Y (N) ~ Sediment on probe tip

Well Inventory Form Completed? Y (N)

EVACUATION INFORMATION

Pump Start Time 1200
Pump Stop Time 1255
Minutes of Pumping 55
Volume of Water Removed ~3.25
Did Well Go Dry? Y (N)

Required	Analytical Parameters:	Collected
☒ (X)	VOCs (Standard List)	(3)
☐ ()	VOCs (Expanded List)	()
☒ (X)	SVOCs Methane	(2)
☐ ()	PCBs (Unfiltered)	()
☐ ()	PCBs (Filtered)	()
☐ ()	Metals/Inorganics (Unfiltered)	()
☐ ()	Metals/Inorganics (Filtered)	()
☐ ()	Total Cyanide (Unfiltered)	()
☐ ()	Total Cyanide (Filtered)	()
☐ ()	PAC Cyanide (Filtered)	()
☐ ()	PCDDs/PCDFs	()
☐ ()	Pesticides/Herbicides	()
☒ (X)	AIK Natural Attenuation	(1)
☒ (X)	Self-Monitoring Other (Specify)	(2)

Evacuation Method: Bailer () Bladder Pump ()
Peristaltic Pump ☒ (X) Submersible Pump () Other/Specify ()
Pump Type: —
Samples collected by same method as evacuation? (N) (Specify) Bailer

Water Quality Meter Type(s) / Serial Numbers: YSI 556 MPS #10929 / YSI 85 #

Time	Pump Rate (L/min.)	Total Gallons Removed	Water Level (ft TIC)	Temp. (Celsius) [3%]*	pH [0.1 units]*	Sp. Cond. (mS/cm) [3%]*	Turbidity (NTU) [10% or 1 NTU]*	DO (mg/l) [10% or 0.1 mg/l]*	ORP (mV) [10mV]*
1205	200	—	4.23	20.01	7.10	1.964	—	0.50	-76.4
1210	200		4.23	19.98	7.13	1.908		0.39	-90.1
1215			4.23	19.97	7.18	1.845		0.23	-112.7
1220			4.23	20.00	7.21	1.815		0.18	-122.9
1225			4.23	19.94	7.25	1.788		0.13	-133.7
1230			4.23	19.97	7.27	1.769		0.17	-138.1
1235		~2.25	4.23	19.95	7.29	1.758		0.10	-140.6
1240	✓	1	4.24	19.90	7.30	1.751		0.09	-145.3

* The stabilization criteria for each field parameter (three consecutive readings collected at 3- to 5-minute intervals) is listed in each column heading.

OBSERVATIONS/SAMPLING METHOD DEVIATIONS

Fe: 0.87 mg/L
DO Down Hole: 0.1 mg/L

SAMPLE DESTINATION

Laboratory: STL
Delivered Via: UPS
Airbill #: —

Field Sampling Coordinator: D. Zuck



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NJ001031.1.1
 Site Location 525 French Road, Utica NY Date 9/26/11 + 9/29/11
 Well No. PZ-11R Replicate No. NA Weather clear 80°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1115 End 1120

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 9.90
 Depth to Water (ft bmp) 8.44
 Water Column in Well (ft) 1.46
 Casing Diameter 1"
 Gallons in Well 0.06
 Gallons Purged
 Prior to Sampling 0.18
 Evacuation Method Peristaltic
 Sampling Method Bailer
 Pump Intake
 Setting (ft bmp) Bottom
 Pumping Rate (gpm) 100 mL
 Purge Time Begin 1645 End 1647

Field Parameters

Color med Brown
 Odor None
 Appearance V. turbid
 Time 1645 * 12:30 (9/29)
 DTW (ft bmp) 8.44 7.84 7.10
 pH (s.u.) 6.93 7.24 8.37
 Conductivity
 (mS/cm) or 4.096 3.222
 (µmhos/cm)¹⁾
 Temperature (°C) 19.20 20.2°C
 DO (mg/L) 1.43 0.60
 ORP (mV) -71.0 33.0
 Turbidity (NTU)

Remarks:

~ 225 mL = 1V
* Dry @ 1647 Removal ~ (1V)
(1) DO collected using Down Hold probe (VSI 85)

Parameter	Container	No.	Preservative
<u>VOCs</u>	<u>40 mL Vials</u>	<u>3</u>	<u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. NT001031.1.1
 Site Location 525 French Road, Utica NY Date 9/26/11 + 9/27/11
 Well No. PZ ~~13R~~ -13R Replicate No. / Weather /
 Sampling Personnel D. Zuck Sampling Time: Begin 1255 End 1305

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 9.86
 Depth to Water (ft bmp) 8.08
 Water Column in Well (ft) 1.78'
 Casing Diameter 1"
 Gallons in Well 0.07
 Gallons Purged
 Prior to Sampling 3V = .22 gal
 Evacuation Method Peristaltic
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) Bottom
 Pumping Rate (gpm) 100 mL
 Purge Time Begin 1451 End 1455

Field Parameters

Color Med Brown
 Odor None
 Appearance V. Turbid

	1	1V	2V	3V	1620
Time	1452	*1455		~~1255~~	9/29/11
DTW (ft bmp)	8.08			8.10	8.08
pH (s.u.)	6.70				
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	7.593				
Temperature (°C)	14.61				
DO (mg/L)	1.20			(1) 0.04	
ORP (mV)	-28.2				
Turbidity (NTU)					

Remarks:

1V = 275 mL (1) DO collected using Down Hole meter YSI 85
* well was Dry @ 1455 Remained ~ 300 mL
FE: Water too turbid unable to get accurate Reading, Not enough water for parameter Sample

Parameter	Container	No.	Preservative
9/27 → VOCs	40 mL Vials	3	HCl
9/27 → ALK	125 mL Plastic	1	None
9/28 → Sul/Nitrates	125 mL Plastic	2	None
9/27 → Methane	40 mL Vials	2	HCl
PID Reading	<u>NA</u>		

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. N500103(1.1)
 Site Location 525 French Road, Utica NY Date 9/26/11 + 9/27/11
 Well No. MW-135 Replicate No. NA Weather Clear ~80°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1135 End 1140

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 6.94
 Depth to Water (ft bmp) 6.70
 Water Column in Well (ft) 0.24'
 Casing Diameter 2"
 Gallons in Well 0.04
 Gallons Purged
 Prior to Sampling 3v = 0.12
 Evacuation Method Bailer
 Sampling Method Bailer
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1740 End 1745

Field Parameters

Color Lt Brown
 Odor None
 Appearance Turbid

	1	1V	2V	Sample 3V
Time	1745	*		1130 (9/27/11)
DTW (ft bmp)	6.70			6.79
pH (s.u.)	7.00			6.97
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	1.721			1.756
Temperature (°C)	20.48			19.8
DO (mg/L)	3.68			(1) 1.52
ORP (mV)	38.6			83.2
Turbidity (NTU)				

Remarks:

* Well Dry after initial Bailer removed
 (1) DO collected using Down Hole Meter VSI 85

Parameter	Container	No.	Preservative
VOCs	40 mL Vials	3	HCl

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

Water Sampling Log

Project LMC Project No. NJ001031.1.1
 Site Location Utica, NY Date 9/28/11 9/29/11
 Well No. MW-14BR Replicate No. NA Weather Overcast ~ 68°F
 Sampling Personnel D. Zak Sampling Time: Begin 1015 End 1020

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 66.94
 Depth to Water (ft bmp) 23.54
 Water Column in Well (ft) 43.4
 Casing Diameter 2"
 Gallons in Well 7
 Gallons Purged
 Prior to Sampling ~ 21 = 3V
 Evacuation Method Redi-Pro Grubbers
 Sampling Method Bq/lor
 Pump Intake
 Setting (ft bmp) 20-43 40-766
 Pumping Rate (gpm) 19gpm → 0.54gpm
 Purge Time Begin 1210 End 1221

Field Parameters

Color LT Gray
 Odor None
 Appearance Slight Turb.
 Time 1210 (1) 1010
 DTW (ft bmp) 23.53 61.50
 pH (s.u.) 9.76 9.67
 Conductivity (mS/cm) or (µmhos/cm)¹⁾ 8.566 8.862
 Temperature (°C) 20.64 15.52
 DO (mg/L) 1.16 1.90
 ORP (mV) -52.1 -27.4
 Turbidity (NTU)

Remarks: * Pump shut off after WL dropped Below 40', Dropped pump started pumping @ 1215
(1) well was Dry after Recovery (1V)
DO Probe for Downhole Readings not used Due to Depth (50' Do read)

Parameter	Container	No.	Preservative
<u>VOCs</u>	<u>40mL Vials</u>	<u>3</u>	<u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NJ0010 31.1.1
 Site Location 525 French Road Utica, NY Date 4/26/11
 Well No. PZ-18 Replicate No. MA Weather Clear ~ 80°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1235 End 1245

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 8.79
 Depth to Water (ft bmp) 7.85
 Water Column in Well (ft) 0.94'
 Casing Diameter 1"
 Gallons in Well 0.04 gal
 Gallons Purged
 Prior to Sampling 3V = 0.12 gal
 Evacuation Method Peristaltic
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) Bottom
 Pumping Rate (gpm) 100 mL
 Purge Time Begin 1425 End 1427

Field Parameters

Color Med Brown
 Odor None
 Appearance V. Turbid

	I	1V	Sample 2V	3V
Time	1425	* 1427	1235	
DTW (ft bmp)	7.85		7.86	
pH (s.u.)	6.81		6.78	
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	6.156		6.487	
Temperature (°C)	19.63		20.74	
DO (mg/L)	0.32		(1) 0.12	
ORP (mV)	-111.9		-17.9	
Turbidity (NTU)				

Remarks:

* well went Dry after ~ 200 mL
 (1) DO collected using Down Hole probe YSI 85

Parameter <u>VOCs</u>	Container <u>40 mL Vials</u>	No. <u>3</u>	Preservative <u>HCl</u>
PID Reading <u>MA</u>			

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Utica Project No. ~~B00~~ NJ001031.1.1
 Site Location ↗ PE-26 Date 9/26/11
 Well No. Utica NY Replicate No. NA Weather Clear ~ 77°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1135 End 1140

Purge Data

Field Parameters

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 22.76
 Depth to Water (ft bmp) 8.83
 Water Column in Well (ft) 13.93
 Casing Diameter 1"
 Gallons in Well 0.57
 Gallons Purged
 Prior to Sampling 1.72
 Evacuation Method Bailer
 Sampling Method Bailer
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1100 End 1130

(Final)
 Color LT Gray
 Odor None
 Appearance Turbid

	I	1V	2V	3V
Time	<u>1100</u>	<u>1110</u>	<u>1120</u>	<u>1130</u>
DTW (ft bmp)	<u>8.83</u>	<u>—</u>	<u>16.72</u>	<u>18.04</u>
pH (s.u.)	<u>7.53</u>	<u>7.47</u>	<u>7.54</u>	<u>7.72</u>
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	<u>0.619</u>	<u>0.610</u>	<u>0.612</u>	<u>0.636</u>
Temperature (°C)	<u>18.96</u>	<u>17.33</u>	<u>16.66</u>	<u>13.9</u>
DO (mg/L)	<u>1.74</u>	<u>2.28</u>	<u>1.74</u>	<u>0.09*</u>
ORP (mV)	<u>-49.0</u>	<u>-77.8</u>	<u>-87.3</u>	<u>-55.6</u>
Turbidity (NTU)	<u>NA</u>	<u>—</u>	<u>—</u>	<u>→</u>

Remarks:

Sit on probe tip
* Down Hole Reading (YSI 85)

Parameter

Container

No.

Preservative

VOLS40 mL Vials3HCl

PID Reading

NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NJ001031.1.1
 Site Location 525 French Road, Utica, NY Date 8/26/11 + 9/27/11
 Well No. PZ-27 Replicate No. NA Weather Clear ~ 77°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1010 End 1015

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 16.37
 Depth to Water (ft bmp) 10.86
 Water Column in Well (ft) 7.51
 Casing Diameter 1"
 Gallons in Well 0.31
 Gallons Purged
 Prior to Sampling ~0.93
 Evacuation Method Boiler
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1210 End 1225

Field Parameters

Color lt Brom
 Odor None
 Appearance Turbid

	1	1V	2V	sample 3V
Time	1210	1217	1225	1010 (9/27/11)
DTW (ft bmp)	10.86	16.21	*	11.41
pH (s.u.)	6.96	6.95		6.95
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	1.189	1.266		1.082
Temperature (°C)	17.89	16.96		18.54
DO (mg/L)	1.48	1.52		(1) 2.94
ORP (mV)	34.6	-24.0		199.5
Turbidity (NTU)				

Remarks:

* Well Dry @ 1225, Removal ~ 0.5 gal
 (1) DO collected using Downhole YSI 85 meter

Parameter	Container	No.	Preservative
VOCs	40 mL Vials	3	HCl

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NT001031.1.1
 Site Location 525 French Road, Utica NY Date 9/26/11 + 9/27/11
 Well No. A1-P32 Replicate No. NA Weather Clear 280°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1205 End 1215

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 12.21
 Depth to Water (ft bmp) 2.08
 Water Column in Well (ft) 10.13
 Casing Diameter 1"
 Gallons in Well 0.42
 Gallons Purged
 Prior to Sampling ~1.25
 Evacuation Method Peristaltic
 Sampling Method Beiter
 Pump Intake
 Setting (ft bmp) Mid to Bottom
 Pumping Rate (gpm) 300 ml/min
 Purge Time Begin 1705 End

Field Parameters

Color LT Brown
 Odor None
 Appearance LT. Turb.

	1	1V	2V	3V
Time	1706	1710	1720	* 1205 (9/27)
DTW (ft bmp)	2.08	4.15	7.52	2.14
pH (s.u.)	7.09	6.79	6.91	6.90
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	2.374	1.305	2.450	2.397
Temperature (°C)	20.83	21.34	21.49	20.59
DO (mg/L)	2.09	1.55	1.31	(1) 2.18
ORP (mV)	-110.7	-62.2	-96.0	101.8
Turbidity (NTU)				

Remarks:

* well was Dry @ 1724
 (1) DO unable to be collected Down hole Due to well fitting on top of IC.
 Fe: 0.47 mg/L

Parameter	Container	No.	Preservative
VOCs	3	40 mL Vials	HCl
Methane	2	" "	" "
Alk	1	12.5 mL Plastic	None
Sulfur / Nitrate	2	" "	" "
PID Reading	NA		

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NJ001031.1
 Site Location 525 French Road, Utica NY Date 9/26/11
 Well No. A2-P31 Replicate No. NA Weather Clear 80°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1540 End 1550

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 14.83
 Depth to Water (ft bmp) 3.83
 Water Column in Well (ft) 11'
 Casing Diameter 1"
 Gallons in Well 0.45
 Gallons Purged
 Prior to Sampling 3V = 1.35 gal
 Evacuation Method Peristaltic
 Sampling Method Bel/or
 Pump Intake
 Setting (ft bmp) Bottom → Mid Screen
 Pumping Rate (gpm) 200 mL/min → 300 mL
 Purge Time Begin 1517 End 1540

Field Parameters

Color LT Gray
 Odor Sulfur like → Metallic like
 Appearance Turbid

	I	1V	2V	3V
Time	1517	1524	1533	1540
DTW (ft bmp)	3.83	5.80	6.65	8.21
pH (s.u.)	6.78	6.77	6.78	6.90
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	1.669	1.014	1.009	1.271
Temperature (°C)	19.82	17.51	17.52	16.70
DO (mg/L)	1.44	1.33	1.55	(1) 0.43
ORP (mV)	-97.7	-70.3	-60.9	-48.4
Turbidity (NTU)				

Remarks:

(1) DO collected from Down hole YSI 85
 Fe: 0.35 mg/L

Parameter	Container	No.	Preservative
VOLs	(3) 40 mL Vials		HCl
Metals	(2) 40 mL Vials		HCl
Sulf / Nitrate	(2) 125 mL Plastic		None
Alk	(1) 125 mL Plastic		None
PID Reading	NA		

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type



Infrastructure, environment, facilities

Page 1 of 1

Water Sampling Log

Project LMC Project No. NT001031.1.1
 Site Location 525 French Road, Utica NY Date 9/26/11
 Well No. A2-P27 Replicate No. NA Weather Clear ~80°F
 Sampling Personnel D. Zuck Sampling Time: Begin 1605 End 1610

Purge Data

Measuring Point (describe) TIC
 Sounded Well Depth (ft bmp) 15.50
 Depth to Water (ft bmp) 5.58
 Water Column in Well (ft) 9.92
 Casing Diameter 1"
 Gallons in Well 0.41
 Gallons Purged
 Prior to Sampling ~1.23
 Evacuation Method Boiler
 Sampling Method Boiler
 Pump Intake
 Setting (ft bmp) NA
 Pumping Rate (gpm) NA
 Purge Time Begin 1235 End 1303

Field Parameters

Color LT Brown
 Odor None
 Appearance turbid

	1	1V	2V	3V Sample
Time	1235	1241	1253	* 1605
DTW (ft bmp)	5.58	12.72	13.01	7.02
pH (s.u.)	6.79	6.83	7.11	6.89
Conductivity (mS/cm) or (µmhos/cm) ¹⁾	0.962	0.924	0.874	0.978
Temperature (°C)	18.48	18.23	16.86	19.83
DO (mg/L)	3.21	3.53	4.52	** 7.02
ORP (mV)	44.5	41.8	11.1	46.8
Turbidity (NTU)				

Remarks:

* Well Went Dry @ 1303, Remained ~0.9 gal

** unable to collect Data due to DO Probe Due to well filling

Parameter	Container	No.	Preservative
<u>VOCs</u>	<u>40 mL Vials</u>	<u>3</u>	<u>HCl</u>

PID Reading NA

Well Casing Volumes: Gal./Ft. (L/ft)

1/4" = 0.003 (0.01)	3/4" = 0.023 (0.087)	1 1/4" = 0.064	2" = 0.163	3" = 0.367	4" = 0.653
1/2" = 0.01 (0.039)	1" = 0.041 (0.154)	1 1/2" = 0.092	2 1/2" = 0.26	3 1/2" = 0.50	6" = 1.469

1) Circle one unit type

APPENDIX G— DATA-USABILITY SUMMARY REPORT



Lockheed Martin Corporation

Data Usability Summary Report

UTICA, NEW YORK

Volatiles, Dissolved Gasses, Misc. Analyses

SDG#480-10504

Analyses Performed By:
TestAmerica Laboratories, Inc

Report: #14961R
Review Level: Tier III
Project: NJ001030.0001.00004

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 480-10504 for samples collected in association with the Lockheed Martin Utica Site. The review was conducted as a Tier III evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
PZ-26	10504-1	Water	9/26/2011		X				
MW-2	10504-10	Water	9/27/2011		X				
MW-5	10504-11	Water	9/28/2011		X				
MW-1	10504-12	Water	9/28/2011		X				X
MW-3	10504-13	Water	9/28/2011		X				X
PZ-7	10504-14	Water	9/28/2011		X				
PZ-6	10504-15	Water	9/28/2011		X				
PZ-5	10504-16	Water	9/28/2011		X				
PZ-5RE1	1050416DL-RE1	Water	9/28/2011		X				
PZ-8	10504-17	Water	9/28/2011		X				
PZ-8RE1	1050417DL-RE1	Water	9/28/2011		X				
MW-14BR	10504-18	Water	9/29/2011		X				
PZ-11R	10504-19	Water	9/29/2011		X				
A2-PZ1	10504-2	Water	9/26/2011		X				X
MW-10	10504-20	Water	9/29/2011		X				X
TB-092911	1050421	Water	9/28/2011		X				
DUP-092811	10504-22	Water	9/28/2011	MW-1	X				X
PZ-13R	10504-23	Water	9/28/2011		X				X
A2-PZ1RE1	105042DL-RE1	Water	9/26/2011		X				X
A2-PZ7	10504-3	Water	9/26/2011		X				
A2-PZ7RE1	105043DL-RE1	Water	9/26/2011		X				
PZ-27	10504-4	Water	9/27/2011		X				
MW-4	10504-5	Water	9/27/2011		X				
MW-13S	10504-6	Water	9/27/2011		X				
A1-PZ2	10504-7	Water	9/27/2011		X				X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis				
					VOC	SVOC	PCB	MET	MISC
PZ-18	10504-8	Water	9/27/2011		X				
PZ-13R	10504-9	Water	9/27/2011		X				X

Note: The matrix spike/matrix spike duplicate for VOCs was performed on sample A2-PZ1. The matrix spike for alkalinity was performed on sample PZ-13R.

ANALYTICAL DATA PACKAGE DOCUMENTATION
GENERAL INFORMATION

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Sample receipt condition		X		X	
Requested analyses and sample results		X		X	
Collection Technique (grab, composite, etc.)		X		X	
Methods of analysis		X		X	
Reporting limits		X		X	
Sample collection date		X		X	
Laboratory sample received date		X		X	
Sample preservation verification (as applicable)		X		X	
Sample preparation/extraction/analysis dates		X		X	
Fully executed Chain-of-Custody (COC) form completed		X		X	
Narrative summary of QA or sample problems provided		X		X	
Data Package Completeness and Compliance		X		X	

QA - Quality Assurance

INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 methods 8260 and RSK-175. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999, USEPA Region II SOPs and NYSDEC ASP 2005.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The compound was analyzed for but not detected. The associated value is the compound quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The compound was positively identified; however, the associated numerical value is an estimated concentration only.
 - UJ The compound was not detected above the reported sample quantitation limit. However, the reported limit is approximate and may or may not represent the actual limit of quantitation.
 - JN The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification. The associated numerical value is an estimated concentration only.
 - UB Compound considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260	Water	14 days from collection to analysis	Cool to 4°C±2°C; preserved to a pH of less than 2.
	Soil	14 days from collection to analysis	Cool to 4°C±2°C.

s.u. Standard units

All samples were analyzed within the specified holding time criteria.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (15%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

4.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

5. Surrogates/System Monitoring Compounds

All samples to be analyzed for organic compounds are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. VOC analysis requires that all surrogates associated with the analysis exhibit recoveries within the laboratory-established acceptance limits.

All surrogate recoveries were within control limits.

6. Internal Standard Performance

Internal standard performance criteria insure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria requires the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

7. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

The MS/MSD exhibited acceptable recoveries and RPD between the MS/MSD recoveries.

8. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS analysis exhibited recoveries within the control limits.

9. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-1/ DUP-092811	1,1-Dichloroethane	5.8	5.5	5.3 %
	cis-1,2-Dichloroethene	40	39	2.5 %
	Tetrachloroethene	77	81	5.0 %
	trans-1,2-Dichloroethene	1 U	1.3	AC
	Trichloroethene	18	19	5.4 %
	Vinyl chloride	3.1	3	AC

AC Acceptable
NC Not compliant
U Not detected

The calculated RPDs between the parent sample and field duplicate were acceptable.

10. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

11. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Sample results associated with compound that exhibited a concentration greater than the linear range of the instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
PZ-5	Trichloroethene	120 E	91 D	91 D
PZ-8	Tetrachloroethene	350 E	350 D	350 D
	Trichloroethene	310 E	290 D	290 D
A2-PZ1	1,1,2-Trichloro-1,2,2-trifluoroethane	1600 E	440 J	1600 EJ
	1,1-Dichloroethane	2000 E	1900 D	1900 D

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
	Cis1,2-Dichloroethene	5600 E	27000 D	27000 D
	Dichlorodifluoromethane	960 E	U (500)	960 EJ
	Trichloroethene	1700 E	2100 D	2100 D
	Vinyl Chloride	1300 E	720 D	720 D
A2-PZ7	Cis1,2-Dichloroethene	140 E	120 D	120 D
	Tetrachloroethene	450 E	360 D	360 D
	Trichloroethene	340 E	280 D	280 D

U Nondetected

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks					X	
C. Trip blanks		X		X		
Laboratory Control Sample (LCS)		X		X		
Laboratory Control Sample Duplicate(LCSD)					X	
LCS/LCSD Precision (RPD)					X	
Matrix Spike (MS)		X		X		
Matrix Spike Duplicate(MSD)		X		X		
MS/MSD Precision (RPD)		X		X		
Field Duplicate (RPD)		X		X		
Surrogate Spike Recoveries		X		X		
Dilution Factor		X		X		
Moisture Content					X	
Tier III Validation						
System performance and column resolution		X		X		
Initial calibration %RSDs		X		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		X		X		
Instrument tune and performance check		X		X		
Ion abundance criteria for each instrument used		X		X		
Internal standard		X		X		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		X		X		
B. Quantitation Reports		X		X		
C. RT of sample compounds within the established RT windows		X		X		
D. Transcription/calculation errors present				X		

VOCs: SW-846 8260	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
E. Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DISSOLVED GASES (METHANE) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
RSK-175 (Methane)	Water	14 days from collection to analysis	Cooled @ 4 °C; preserved to a pH of less than 2 s.u.

s.u. Standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the reporting limit (RL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

Compounds were not detected above the MDL in the associated blanks; therefore detected sample results were not associated with blank contamination.

3. Mass Spectrometer Tuning

System performance and column resolution were acceptable.

4. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

4.3 Initial Calibration

A maximum RSD of 20% is allowed or a correlation coefficient greater than 0.99.

4.1 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (15%).

All calibration criteria were within the control limits.

5. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analysis

MS/MSD data are used to assess the precision and accuracy of the analytical method. The compounds used to perform the MS/MSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits. The relative percent difference (RPD) between the MS/MSD recoveries must exhibit an RPD within the laboratory-established acceptance limits.

Note: The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the compound concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater.

A matrix spike/ matrix spike duplicate was not analyzed in association with this SDG.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The compounds associated with the LCS/LCSD analysis must exhibit a percent recovery within the laboratory-established acceptance limits.

All compounds associated with the LCS/LCSD analysis exhibited recoveries within the control limits.

7. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices and 100% for soil matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices or three times the RL is applied for soil matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-1/ DUP-092811	Methane	130	66	65.3%

ND = Not detected.

AC = Acceptable.

NC = Not compliant.

The compound methane associated with sample locations MW-1 and DUP-092811 exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Sample results associated with compound that exhibited a concentration greater than the linear range of the

instrument calibration are summarized in the following table.

Sample ID	Compound	Original Analysis	Diluted Analysis	Reported Analysis
A2-PZ1	Methane	--	1200 D	1200 D
A1-PZ2		--	710 D	710 D
PZ-13R		--	120 D	120 D
MW-10		--	97 D	97 D
DUP-092811		--	66 D	66 D

U Not Detected

Note: In the instance where both the original analysis and the diluted analysis sample results exhibited a concentration greater than and/or less than the calibration linear range of the instrument; the sample result exhibiting the greatest concentration will be reported as the final result.

Sample results associated with compounds exhibiting concentrations greater than the linear range are qualified as documented in the table below when reported as the final reported sample result.

Reported Sample Results	Qualification
Diluted sample result within calibration range	D
Diluted sample result less than the calibration range	DJ
Diluted sample result greater than the calibration range	EDJ
Original sample result greater than the calibration range	EJ

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR METHANE

Methane; RSK-175	Reported		Performance Acceptable		Not Required	
	No	Yes	No	Yes		
GAS CHROMATOGRAPHY (GC/FID)						
Tier II Validation						
Holding times		X		X		
Reporting limits (units)		X		X		
Blanks						
A. Method blanks		X		X		
B. Equipment blanks					X	
Laboratory Control Sample (LCS) %R		X		X		
Laboratory Control Sample Duplicate(LCSD) %R		X		X		
LCS/LCSD Precision (RPD)		X		X		
Matrix Spike (MS) %R					X	
Matrix Spike Duplicate(MSD) %R					X	
MS/MSD Precision (RPD)					X	
Field/Lab Duplicate (RPD)		X	X			
Surrogate Spike Recoveries					X	
Column (%D)					X	
Dilution Factor		X		X		
Moisture Content		X		X		
Tier III Validation						
Initial calibration %RSDs		X		X		
Continuing calibration %Ds		X		X		
System performance and column resolution		X		X		
Compound identification and quantitation						
A. Quantitation Reports		X		X		
B. RT of sample compounds within the established RT windows		X		X		
C. Pattern identification		X		X		
D. Transcription/calculation errors present	X			X		
E. Reporting limits adjusted to reflect sample dilutions		X		X		

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference,
 %D – difference

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to (United States Environmental Protection Agency) EPA Methods 353.2, standard methods (SM)D516-90, (SM)2320B. Data were reviewed in accordance with USEPA National Functional Guidelines of July 2002.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers

- U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

- B The reported value was obtained from a reading less than the contract-required detection limit (CRDL), but greater than or equal to the instrument detection limit (IDL).

- Quantitation (Q) Qualifiers

- E The reported value is estimated due to the presence of interference.

- N Spiked sample recovery is not within control limits.

- * Duplicate analysis is not within control limits.

- Validation Qualifiers

- J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

- UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

- UB Analyte considered non-detect at the listed value due to associated blank contamination.

- R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

GENERAL CHEMISTRY ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Nitrate-N by EPA 353.2	Water	48 hours from collection to analysis	Cool to 4°C±2°C.
Sulfate by SMD516-90	Water	14 days from collection to analysis	Cool to 4°C±2°C.
Alkalinity by SM 2320B	Water	14 days from collection to analysis	Cool to 4°C±2°C.

The analyses that exceeded the holding time are presented in the following table.

Sample Locations	Holding Time	Criteria
A2-PZ-1(Nitrate-N) A1-PZ2(Nitrate-N)	2 days	<2 Days

Sample results associated with sample locations analyzed by analytical EPA method 353.2 were qualified, as specified in the table below. All other holding times were met.

Criteria	Qualification	
	Detected Analytes	Non-detect Analytes
Analysis completed less than two times holding time	J	UJ
Analysis completed greater than two times holding time	J	R

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

A blank action level (BAL) of five times the concentration of a detected compound in an associated blank (common laboratory contaminant compounds are calculated at ten times) is calculated for QA blanks containing concentrations greater than the method detection limit (MDL). The BAL is compared to the associated sample results to determine the appropriate qualification of the sample results, if needed.

All analytes associated with the QA blanks exhibited a concentration less than the RL with the exception of the analytes listed in the following table. Sample results associated with QA blank contamination that were

greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. Sample results less than the BAL associated with the following sample locations were qualified as listed in the following table.

Sample Locations	Analytes	Sample Result	Qualification
A1-PZ-2	Sulfate	Detected sample results <RL and <BAL	"UB" at the RL

RL = reporting limit

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

The correct number and type of standards were analyzed. The correlation coefficient of the initial calibration was greater than 0.995 and all initial calibration verification standard recoveries were within control limits.

All calibration standard recoveries were within the control limit.

4. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory qualifier "N" will be removed.

The MS analysis performed on sample location PZ-13R exhibited recoveries within the control limits.

4.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the CRDL. A control limit of 20% for water matrices and 35% for soil matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the CRDL, a control limit of one times the CRDL is applied for water matrices and two times the CRDL for soil matrices.

The laboratory duplicate recoveries exhibited acceptable RPD.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the precision and accuracy of the field sampling procedures and analytical method. A control limit of 50% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
MW-1/ DUP-092811	Nitrate	0.73	0.76	AC
	Sulfate	166	167	0.60%
	Alkalinity	338	337	0.20%

ND = Not detected

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD) Analysis

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS/LCSD analysis exhibited recoveries within the control limits.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

General Chemistry: EPA 9012A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding times		X	X		
Reporting limits (units)		X		X	
Blanks					
A. Method blanks		X	X		
B. Equipment blanks					X
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate(LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate(MSD) %R					X
MS/MSD Precision (RPD)					X
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content					X
Tier III Validation					
Initial calibration %RSD or correlation coefficient		X		X	
Continuing calibration %R		X		X	
Raw Data		X		X	
Transcription/calculation errors present				X	
Reporting limits adjusted to reflect sample dilutions		X		X	

%RSD – relative standard deviation, %R - percent recovery, RPD - relative percent difference, %D – difference

SAMPLE COMPLIANCE REPORT

Sample Delivery Group (SDG)	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
					VOC	SVOC	PCB	MET	MISC	
480-10504	9/26/2011	SW-846	PZ-26	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	MW-2	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	MW-5	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	MW-1	Water	Yes	--	--	--	No	Methane-Field Duplicate RPD
480-10504	9/28/2011	SW-846	MW-3	Water	Yes	--	--	--	Yes	
480-10504	9/28/2011	SW-846	PZ-7	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	PZ-6	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	PZ-5	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	PZ-5RE1	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	PZ-8	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	PZ-8RE1	Water	Yes	--	--	--	--	
480-10504	9/29/2011	SW-846	MW-14BR	Water	Yes	--	--	--	--	
480-10504	9/29/2011	SW-846	PZ-11R	Water	Yes	--	--	--	--	
480-10504	9/26/2011	SW-846	A2-PZ1	Water	Yes	--	--	--	No	Nitrate-Hold time
480-10504	9/29/2011	SW-846	MW-10	Water	Yes	--	--	--	Yes	
480-10504	9/28/2011	SW-846	TB-092911	Water	Yes	--	--	--	--	
480-10504	9/28/2011	SW-846	DUP-092811	Water	Yes	--	--	--	No	Methane-Duplicate RPD
480-10504	9/28/2011	SW-846	PZ-13R	Water	Yes	--	--	--	Yes	
480-10504	9/26/2011	SW-846	A2-PZ1RE1	Water	Yes	--	--	--	Yes	
480-10504	9/26/2011	SW-846	A2-PZ7	Water	Yes	--	--	--	--	

Sample	Sampling Date	Protocol	Sample ID	Matrix	Compliance ¹					Noncompliance
480-10504	9/26/2011	SW-846	A2-PZ7RE1	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	PZ-27	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	MW-4	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	MW-13S	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	A1-PZ2	Water	Yes	--	--	--	No	Sulfate-Blank contamination, Nitrate-Hold time
480-10504	9/27/2011	SW-846	PZ-18	Water	Yes	--	--	--	--	
480-10504	9/27/2011	SW-846	PZ-13R	Water	Yes	--	--	--	Yes	

1 Samples which are compliant with no added validation qualifiers are listed as "yes". Samples which are non-compliant or which have added qualifiers are listed as "no". A "no" designation does not necessarily indicate that the data have been rejected or are otherwise unusable.

VALIDATION PERFORMED BY: Mary Ann Doyle

SIGNATURE:



DATE: November 6, 2011

PEER REVIEW BY: Dennis Capria

DATE: November 9, 2011

**CHAIN OF CUSTODY/
CORRECTED SAMPLE ANALYSIS DATA SHEETS**

14961

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-26

Lab Sample ID: 480-10504-1

Date Sampled: 09/26/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1126			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1126				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-26

Lab Sample ID: 480-10504-1

Date Sampled: 09/26/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6632.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1126			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1126				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	113		71 - 126
4-Bromofluorobenzene (Surr)	107		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	3.0		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	1600	E J	0.31	1.0
1,1-Dichloroethane	1900-2000	E D	0.38	1.0
1,1-Dichloroethene	45		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	5.1		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	6.2		2.1	5.0
Acetone	9.5	J	3.0	10
Benzene	0.52	J	0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	1.2		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	27000		0.35	1.0
cis-1,2-Dichloroethene	5600	E D	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	960	E J	0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	4.6		0.36	1.0
Toluene	5.1		0.51	1.0
trans-1,2-Dichloroethene	33		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	2100	E D	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6633.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1148			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1148				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	720	E-D	0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	112		66 - 137
Toluene-d8 (Surr)	120		71 - 126
4-Bromofluorobenzene (Surr)	117		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6704.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1906	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1906				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		410	500
1,1,2,2-Tetrachloroethane	ND		110	500
1,1,2-Trichloroethane	ND		120	500
1,1,2-Trichloro-1,2,2-trifluoroethane	440	J	160	500
1,1-Dichloroethane	1900		190	500
1,1-Dichloroethene	ND		150	500
1,2,4-Trichlorobenzene	ND		210	500
1,2-Dibromo-3-Chloropropane	ND		200	500
1,2-Dibromoethane	ND		370	500
1,2-Dichlorobenzene	ND		400	500
1,2-Dichloroethane	ND		110	500
1,2-Dichloropropane	ND		360	500
1,3-Dichlorobenzene	ND		390	500
1,4-Dichlorobenzene	ND		420	500
2-Hexanone	ND		620	2500
2-Butanone (MEK)	ND		660	5000
4-Methyl-2-pentanone (MIBK)	ND		1100	2500
Acetone	ND		1500	5000
Benzene	ND		210	500
Bromodichloromethane	ND		200	500
Bromoform	ND		130	500
Bromomethane	ND		350	500
Carbon disulfide	ND		95	500
Carbon tetrachloride	ND		140	500
Chlorobenzene	ND		380	500
Dibromochloromethane	ND		160	500
Chloroethane	ND		160	500
Chloroform	ND		170	500
Chloromethane	ND		180	500
cis-1,2-Dichloroethene	27000		410	500
cis-1,3-Dichloropropene	ND		180	500
Cyclohexane	ND		90	500
Dichlorodifluoromethane	ND		340	500
Ethylbenzene	ND		370	500
Isopropylbenzene	ND		400	500
Methyl acetate	ND		250	500
Methyl tert-butyl ether	ND		80	500
Methylcyclohexane	ND		80	500
Methylene Chloride	ND		220	500
Styrene	ND		370	500
Tetrachloroethene	ND		180	500
Toluene	ND		260	500
trans-1,2-Dichloroethene	ND		450	500
trans-1,3-Dichloropropene	ND		190	500
Trichloroethene	2100		230	500
Trichlorofluoromethane	ND		440	500

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6704.D
Dilution:	500			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1906	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1906				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	720		450	500
Xylenes, Total	ND		330	1000

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6670.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1643			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	9.8		0.38	1.0
1,1-Dichloroethene	0.73	J	0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	120 ~~140~~	D - E	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	360 ~~450~~	D - E	0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	280 ~~340~~	D - E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6670.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1643			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1643				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	6.5		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	112		71 - 126
4-Bromofluorobenzene (Surr)	109		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6705.D
Dilution:	8.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1928	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		6.6	8.0
1,1,2,2-Tetrachloroethane	ND		1.7	8.0
1,1,2-Trichloroethane	ND		1.8	8.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.5	8.0
1,1-Dichloroethane	8.7		3.0	8.0
1,1-Dichloroethene	ND		2.3	8.0
1,2,4-Trichlorobenzene	ND		3.3	8.0
1,2-Dibromo-3-Chloropropane	ND		3.1	8.0
1,2-Dibromoethane	ND		5.8	8.0
1,2-Dichlorobenzene	ND		6.3	8.0
1,2-Dichloroethane	ND		1.7	8.0
1,2-Dichloropropane	ND		5.8	8.0
1,3-Dichlorobenzene	ND		6.2	8.0
1,4-Dichlorobenzene	ND		6.7	8.0
2-Hexanone	ND		9.9	40
2-Butanone (MEK)	ND		11	80
4-Methyl-2-pentanone (MIBK)	ND		17	40
Acetone	ND		24	80
Benzene	ND		3.3	8.0
Bromodichloromethane	ND		3.1	8.0
Bromoform	ND		2.1	8.0
Bromomethane	ND		5.5	8.0
Carbon disulfide	ND		1.5	8.0
Carbon tetrachloride	ND		2.2	8.0
Chlorobenzene	ND		6.0	8.0
Dibromochloromethane	ND		2.6	8.0
Chloroethane	ND		2.6	8.0
Chloroform	ND		2.7	8.0
Chloromethane	ND		2.8	8.0
cis-1,2-Dichloroethene	120		6.5	8.0
cis-1,3-Dichloropropene	ND		2.9	8.0
Cyclohexane	ND		1.4	8.0
Dichlorodifluoromethane	ND		5.4	8.0
Ethylbenzene	ND		5.9	8.0
Isopropylbenzene	ND		6.3	8.0
Methyl acetate	ND		4.0	8.0
Methyl tert-butyl ether	ND		1.3	8.0
Methylcyclohexane	ND		1.3	8.0
Methylene Chloride	ND		3.5	8.0
Styrene	ND		5.8	8.0
Tetrachloroethene	360		2.9	8.0
Toluene	ND		4.1	8.0
trans-1,2-Dichloroethene	ND		7.2	8.0
trans-1,3-Dichloropropene	ND		3.0	8.0
Trichloroethene	280		3.7	8.0
Trichlorofluoromethane	ND		7.0	8.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ7

Lab Sample ID: 480-10504-3

Date Sampled: 09/26/2011 1605

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34409	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6705.D
Dilution:	8.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/07/2011 1928	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/07/2011 1928				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		7.2	8.0
Xylenes, Total	ND		5.3	16

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	124		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	114		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-27

Lab Sample ID: 480-10504-4

Date Sampled: 09/27/2011 1015

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6671.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1705			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-27

Lab Sample ID: 480-10504-4

Client Matrix: Water

Date Sampled: 09/27/2011 1015

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6671.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1705			Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1705				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	121		66 - 137
Toluene-d8 (Surr)	115		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-4

Lab Sample ID: 480-10504-5

Date Sampled: 09/27/2011 1055

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6636.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1254			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.70	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	3.3		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-4

Lab Sample ID: 480-10504-5

Client Matrix: Water

Date Sampled: 09/27/2011 1055

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6636.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1254			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1254				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	1.4		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	119		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-13S

Lab Sample ID: 480-10504-6

Client Matrix: Water

Date Sampled: 09/27/2011 1135

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6637.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1317			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.4		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-13S

Lab Sample ID: 480-10504-6

Date Sampled: 09/27/2011 1135

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6637.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1317			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1317				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	112		71 - 126
4-Bromofluorobenzene (Surr)	109		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6638.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1339			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1339				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.1		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	6.6	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	99		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	1.7		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6638.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1339			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1339				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	27		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-18

Lab Sample ID: 480-10504-8

Date Sampled: 09/27/2011 1235

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6639.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1401			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1401				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	0.85	J	0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-18

Lab Sample ID: 480-10504-8

Date Sampled: 09/27/2011 1235

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6639.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1401			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1401				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6640.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1423			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	2.4		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	1.7		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	5.5		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6640.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1423			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1423				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-2

Lab Sample ID: 480-10504-10

Date Sampled: 09/27/2011 1805

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6641.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.9		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	13		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	2.0		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-2

Lab Sample ID: 480-10504-10

Date Sampled: 09/27/2011 1805

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6641.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1446			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1446				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	33		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-5

Lab Sample ID: 480-10504-11

Date Sampled: 09/28/2011 1425

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6642.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1508			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.69	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-5

Lab Sample ID: 480-10504-11

Date Sampled: 09/28/2011 1425

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6642.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1508			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1508				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	119		71 - 126
4-Bromofluorobenzene (Surr)	115		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6643.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1530			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.8		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	40		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	77		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	18		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6643.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1530			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1530				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	3.1		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1552				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	6.8		0.38	1.0
1,1-Dichloroethene	0.57	J	0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	68		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	9.2		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	16		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1552			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1552				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	5.0		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	118		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-7

Lab Sample ID: 480-10504-14

Date Sampled: 09/28/2011 1800

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1614			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1614				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	0.83	J	0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	0.58	J	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-7

Lab Sample ID: 480-10504-14

Client Matrix: Water

Date Sampled: 09/28/2011 1800

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1614			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1614				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	111		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-6

Lab Sample ID: 480-10504-15

Date Sampled: 09/28/2011 1825

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1636			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	20		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	72		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	20		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-6

Lab Sample ID: 480-10504-15

Date Sampled: 09/28/2011 1825

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1636			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1636				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	117		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	3.1	J	3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	53		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	59		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	91 120	D E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1658			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1658				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	0.70	J	0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	127		66 - 137
Toluene-d8 (Surr)	121		71 - 126
4-Bromofluorobenzene (Surr)	119		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6672.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1727	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		1.6	2.0
1,1,2,2-Tetrachloroethane	ND		0.42	2.0
1,1,2-Trichloroethane	ND		0.46	2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.62	2.0
1,1-Dichloroethane	ND		0.76	2.0
1,1-Dichloroethene	ND		0.58	2.0
1,2,4-Trichlorobenzene	ND		0.82	2.0
1,2-Dibromo-3-Chloropropane	ND		0.78	2.0
1,2-Dibromoethane	ND		1.5	2.0
1,2-Dichlorobenzene	ND		1.6	2.0
1,2-Dichloroethane	ND		0.42	2.0
1,2-Dichloropropane	ND		1.4	2.0
1,3-Dichlorobenzene	ND		1.6	2.0
1,4-Dichlorobenzene	ND		1.7	2.0
2-Hexanone	ND		2.5	10
2-Butanone (MEK)	ND		2.6	20
4-Methyl-2-pentanone (MIBK)	ND		4.2	10
Acetone	ND		6.0	20
Benzene	ND		0.82	2.0
Bromodichloromethane	ND		0.78	2.0
Bromoform	ND		0.52	2.0
Bromomethane	ND		1.4	2.0
Carbon disulfide	ND		0.38	2.0
Carbon tetrachloride	ND		0.54	2.0
Chlorobenzene	ND		1.5	2.0
Dibromochloromethane	ND		0.64	2.0
Chloroethane	ND		0.64	2.0
Chloroform	ND		0.68	2.0
Chloromethane	ND		0.70	2.0
cis-1,2-Dichloroethene	43		1.6	2.0
cis-1,3-Dichloropropene	ND		0.72	2.0
Cyclohexane	ND		0.36	2.0
Dichlorodifluoromethane	ND		1.4	2.0
Ethylbenzene	ND		1.5	2.0
Isopropylbenzene	ND		1.6	2.0
Methyl acetate	ND		1.0	2.0
Methyl tert-butyl ether	ND		0.32	2.0
Methylcyclohexane	ND		0.32	2.0
Methylene Chloride	ND		0.88	2.0
Styrene	ND		1.5	2.0
Tetrachloroethene	45		0.72	2.0
Toluene	ND		1.0	2.0
trans-1,2-Dichloroethene	ND		1.8	2.0
trans-1,3-Dichloropropene	ND		0.74	2.0
Trichloroethene	91		0.92	2.0
Trichlorofluoromethane	ND		1.8	2.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-5

Lab Sample ID: 480-10504-16

Date Sampled: 09/28/2011 1850

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6672.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1727	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1727				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		1.8	2.0
Xylenes, Total	ND		1.3	4.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	115		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1721			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	4.8		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	77		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	350 ~~350~~	D -E	0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	290 ~~310~~	D -E	0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1721			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1721				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	114		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6673.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1749	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1749				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		4.1	5.0
1,1,2,2-Tetrachloroethane	ND		1.1	5.0
1,1,2-Trichloroethane	ND		1.2	5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.6	5.0
1,1-Dichloroethane	4.3	J	1.9	5.0
1,1-Dichloroethene	ND		1.5	5.0
1,2,4-Trichlorobenzene	ND		2.1	5.0
1,2-Dibromo-3-Chloropropane	ND		2.0	5.0
1,2-Dibromoethane	ND		3.7	5.0
1,2-Dichlorobenzene	ND		4.0	5.0
1,2-Dichloroethane	ND		1.1	5.0
1,2-Dichloropropane	ND		3.6	5.0
1,3-Dichlorobenzene	ND		3.9	5.0
1,4-Dichlorobenzene	ND		4.2	5.0
2-Hexanone	ND		6.2	25
2-Butanone (MEK)	ND		6.6	50
4-Methyl-2-pentanone (MIBK)	ND		11	25
Acetone	ND		15	50
Benzene	ND		2.1	5.0
Bromodichloromethane	ND		2.0	5.0
Bromoform	ND		1.3	5.0
Bromomethane	ND		3.5	5.0
Carbon disulfide	ND		0.95	5.0
Carbon tetrachloride	ND		1.4	5.0
Chlorobenzene	ND		3.8	5.0
Dibromochloromethane	ND		1.6	5.0
Chloroethane	ND		1.6	5.0
Chloroform	ND		1.7	5.0
Chloromethane	ND		1.8	5.0
cis-1,2-Dichloroethene	68		4.1	5.0
cis-1,3-Dichloropropene	ND		1.8	5.0
Cyclohexane	ND		0.90	5.0
Dichlorodifluoromethane	ND		3.4	5.0
Ethylbenzene	ND		3.7	5.0
Isopropylbenzene	ND		4.0	5.0
Methyl acetate	ND		2.5	5.0
Methyl tert-butyl ether	ND		0.80	5.0
Methylcyclohexane	ND		0.80	5.0
Methylene Chloride	ND		2.2	5.0
Styrene	ND		3.7	5.0
Tetrachloroethene	350		1.8	5.0
Toluene	ND		2.6	5.0
trans-1,2-Dichloroethene	ND		4.5	5.0
trans-1,3-Dichloropropene	ND		1.9	5.0
Trichloroethene	290		2.3	5.0
Trichlorofluoromethane	ND		4.4	5.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-8

Lab Sample ID: 480-10504-17

Date Sampled: 09/28/2011 1915

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34202	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6673.D
Dilution:	5.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/06/2011 1749	Run Type:	DL	Final Weight/Volume:	5 mL
Prep Date:	10/06/2011 1749				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		4.5	5.0
Xylenes, Total	ND		3.3	10

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	119		66 - 137
Toluene-d8 (Surr)	117		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-14BR

Lab Sample ID: 480-10504-18

Date Sampled: 09/29/2011 1015

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6649.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1742				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	16		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	0.57	J	0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-14BR

Lab Sample ID: 480-10504-18

Client Matrix: Water

Date Sampled: 09/29/2011 1015

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6649.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1742			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1742				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	122		66 - 137
Toluene-d8 (Surr)	120		71 - 126
4-Bromofluorobenzene (Surr)	114		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-11R

Lab Sample ID: 480-10504-19

Date Sampled: 09/29/2011 1115

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6650.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1805			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	5.0		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	5.5		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	9.0		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-11R

Lab Sample ID: 480-10504-19

Date Sampled: 09/29/2011 1115

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6650.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1805			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1805				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6651.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	2.6		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	53		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	3.4		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	2.5		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6651.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1827			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1827				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	23		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	116		71 - 126
4-Bromofluorobenzene (Surr)	113		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: TB-092911

Lab Sample ID: 480-10504-21TB

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6652.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1849			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1849				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	ND		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	ND		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	ND		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	ND		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	ND		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: TB-092911

Lab Sample ID: 480-10504-21TB

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6652.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1849			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1849				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	ND		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6653.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1910			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1-Trichloroethane	ND		0.82	1.0
1,1,2,2-Tetrachloroethane	ND		0.21	1.0
1,1,2-Trichloroethane	ND		0.23	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.31	1.0
1,1-Dichloroethane	5.5		0.38	1.0
1,1-Dichloroethene	ND		0.29	1.0
1,2,4-Trichlorobenzene	ND		0.41	1.0
1,2-Dibromo-3-Chloropropane	ND		0.39	1.0
1,2-Dibromoethane	ND		0.73	1.0
1,2-Dichlorobenzene	ND		0.79	1.0
1,2-Dichloroethane	ND		0.21	1.0
1,2-Dichloropropane	ND		0.72	1.0
1,3-Dichlorobenzene	ND		0.78	1.0
1,4-Dichlorobenzene	ND		0.84	1.0
2-Hexanone	ND		1.2	5.0
2-Butanone (MEK)	ND		1.3	10
4-Methyl-2-pentanone (MIBK)	ND		2.1	5.0
Acetone	ND		3.0	10
Benzene	ND		0.41	1.0
Bromodichloromethane	ND		0.39	1.0
Bromoform	ND		0.26	1.0
Bromomethane	ND		0.69	1.0
Carbon disulfide	ND		0.19	1.0
Carbon tetrachloride	ND		0.27	1.0
Chlorobenzene	ND		0.75	1.0
Dibromochloromethane	ND		0.32	1.0
Chloroethane	ND		0.32	1.0
Chloroform	ND		0.34	1.0
Chloromethane	ND		0.35	1.0
cis-1,2-Dichloroethene	39		0.81	1.0
cis-1,3-Dichloropropene	ND		0.36	1.0
Cyclohexane	ND		0.18	1.0
Dichlorodifluoromethane	ND		0.68	1.0
Ethylbenzene	ND		0.74	1.0
Isopropylbenzene	ND		0.79	1.0
Methyl acetate	ND		0.50	1.0
Methyl tert-butyl ether	ND		0.16	1.0
Methylcyclohexane	ND		0.16	1.0
Methylene Chloride	ND		0.44	1.0
Styrene	ND		0.73	1.0
Tetrachloroethene	81		0.36	1.0
Toluene	ND		0.51	1.0
trans-1,2-Dichloroethene	1.3		0.90	1.0
trans-1,3-Dichloropropene	ND		0.37	1.0
Trichloroethene	19		0.46	1.0
Trichlorofluoromethane	ND		0.88	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	480-34016	Instrument ID:	HP5973S
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	S6653.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	10/05/2011 1910			Final Weight/Volume:	5 mL
Prep Date:	10/05/2011 1910				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Vinyl chloride	3.0		0.90	1.0
Xylenes, Total	ND		0.66	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		66 - 137
Toluene-d8 (Surr)	118		71 - 126
4-Bromofluorobenzene (Surr)	112		73 - 120

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Date Sampled: 09/26/2011 1540

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	100			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 1949			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	1200 <i>D</i>		22	100

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method: RSK-175

Analysis Batch: 480-33781

Instrument ID: HP5890-21

N/A

N/A

Initial Weight/Volume: 1 mL

Dilution: 100

Final Weight/Volume: 1.0 mL

Analysis Date: 10/03/2011 2003

Injection Volume: 1 uL

Prep Date: N/A

Result Type: PRIMARY

Analyte

Result (ug/L)

Qualifier

MDL

RL

Methane

710 D

22

100

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Date Sampled: 09/27/2011 1255

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method: RSK-175

Analysis Batch: 480-33781

Instrument ID: HP5890-21

N/A

N/A

Initial Weight/Volume: 1 mL

Dilution: 10

Final Weight/Volume: 1.0 mL

Analysis Date: 10/03/2011 2017

Injection Volume: 1 uL

Prep Date: N/A

Result Type: PRIMARY

Analyte

Result (ug/L)

Qualifier

MDL

RL

Methane

120 D

2.2

10

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Date Sampled: 09/28/2011 1455

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2030			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	130	J	0.22	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Date Sampled: 09/28/2011 1655

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	1.0			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2044			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	57		0.22	1.0

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Date Sampled: 09/29/2011 1245

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	10			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2058			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	97 D		2.2	10

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Date Sampled: 09/28/2011 0000

Client Matrix: Water

Date Received: 09/30/2011 1000

RSK-175 Dissolved Gases (GC)

Analysis Method:	RSK-175	Analysis Batch:	480-33781	Instrument ID:	HP5890-21
	N/A		N/A	Initial Weight/Volume:	1 mL
Dilution:	10			Final Weight/Volume:	1.0 mL
Analysis Date:	10/03/2011 2112			Injection Volume:	1 uL
Prep Date:	N/A			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
Methane	66 DJ		2.2	10

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: A2-PZ1

Lab Sample ID: 480-10504-2

Client Matrix: Water

Date Sampled: 09/26/2011 1540

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	J H	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144			Analysis Date: 09/30/2011 2343			
Sulfate	36.2	B	mg/L	3.0	10.0	2.0	D516-90, 02
	Analysis Batch: 480-35511			Analysis Date: 10/14/2011 1241			
Alkalinity, Total	482		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34365			Analysis Date: 10/06/2011 1823			

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: A1-PZ2

Lab Sample ID: 480-10504-7

Date Sampled: 09/27/2011 1205

Client Matrix: Water

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND	JN	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144			Analysis Date: 09/30/2011 2344			
Sulfate	5.0 ~~2.4~~	UB JR	mg/L	1.5	5.0	1.0	D516-90, 02
	Analysis Batch: 480-35511			Analysis Date: 10/14/2011 1249			
Alkalinity, Total	425		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34365			Analysis Date: 10/06/2011 1851			

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-9

Client Matrix: Water

Date Sampled: 09/27/2011 1255

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Sulfate	42.1	~~5~~	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35511		Analysis Date: 10/14/2011 1340				
Alkalinity, Total	390		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34365		Analysis Date: 10/06/2011 1832				

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: MW-1

Lab Sample ID: 480-10504-12

Client Matrix: Water

Date Sampled: 09/28/2011 1455

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.73	~~N~~	mg/L	0.011	0.050	1.0	353.2
Analysis Batch: 480-34144		Analysis Date: 09/30/2011 2346					
Sulfate	166	~~S~~	mg/L	7.5	25.0	5.0	D516-90, 02
Analysis Batch: 480-35987		Analysis Date: 10/18/2011 1033					
Alkalinity, Total	338		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-34618		Analysis Date: 10/07/2011 1641					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: MW-3

Lab Sample ID: 480-10504-13

Client Matrix: Water

Date Sampled: 09/28/2011 1655

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.091	~~N~~	mg/L	0.011	0.050	1.0	353.2
Analysis Batch: 480-34144		Analysis Date: 09/30/2011 2347					
Sulfate	160	~~S~~	mg/L	7.5	25.0	5.0	D516-90, 02
Analysis Batch: 480-35987		Analysis Date: 10/18/2011 1030					
Alkalinity, Total	356		mg/L	0.79	5.0	1.0	SM 2320B
Analysis Batch: 480-34618		Analysis Date: 10/07/2011 1650					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: MW-10

Lab Sample ID: 480-10504-20

Client Matrix: Water

Date Sampled: 09/29/2011 1245

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	ND		mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2348					
Sulfate	108		mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1030					
Alkalinity, Total	211		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1724					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: DUP-092811

Lab Sample ID: 480-10504-22

Client Matrix: Water

Date Sampled: 09/28/2011 0000

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.76	~~N~~	mg/L	0.011	0.050	1.0	353.2
	Analysis Batch: 480-34144	Analysis Date: 09/30/2011 2349					
Sulfate	167	~~B~~	mg/L	7.5	25.0	5.0	D516-90, 02
	Analysis Batch: 480-35987	Analysis Date: 10/18/2011 1030					
Alkalinity, Total	337		mg/L	0.79	5.0	1.0	SM 2320B
	Analysis Batch: 480-34618	Analysis Date: 10/07/2011 1632					

Analytical Data

Client: ARCADIS U.S., Inc.

Job Number: 480-10504-1

General Chemistry

Client Sample ID: PZ-13R

Lab Sample ID: 480-10504-23

Client Matrix: Water

Date Sampled: 09/28/2011 1620

Date Received: 09/30/2011 1000

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Nitrate as N	0.063	~~PL~~	mg/L	0.011	0.050	1.0	353.2

Analysis Batch: 480-34144

Analysis Date: 09/30/2011 2350

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sender: D. Zuck		Lab PM: For Candace		Chain Tracking No: 440-16790-0201	
Client Contact: Mr. Dan Zuck		Project: 516-369-2741		Email: candace.fox@testamerica.com		Page: 1 of 2	
Company: ARCADIS U.S. Inc.		Due Date Requested:		Analysis Requested		Job #: N70010361.1	
Address: 6723 Tompkins PO BOX 66		City: Syracuse		State: NY		Zip: 13214-0068	
Phone: 516-452-7828 (Tel) 516-452-4398 (Fax)		Project #: NA001016.0001		PO #: 2 WK		Preservation Codes:	
Email: dan.zuck@arcadis-us.com		Project Name: Lockheed Martin Corporation		Site: New York		Other: A-HCL, B-NH4, C-Zn Ascorbic, D-Hinc Acid, E-NH4OH, F-HACH, G-Aminox, H-Ascorbic Acid, I-Iso, J-DiWater, K-EDTA, L-EDA, M-HisAla, N-NH4, O-Ash2, P-NH4OH, Q-NH4OH, R-NH4OH, S-H2SO4, T-TSP Decontamination, U-Acid, V-NH4, W-pH 4.5, Z-other (specify)	
Sample Identification		Sample Date	Sample Time	Sample Type (Co-Comp, G-grab)	MATRIX (In-situ, Preserved, G-grab)	Field Filtered Sample (Yes or No) Yes	
☒ PE-26	9/26/11	135	C	Water	Water	☒ A-A	☒ N-N
☒ PE-27	9/26/11	1540	C	Water	Water	☒ A-A	☒ N-N
☒ PE-28	9/26/11	1605	C	Water	Water	☒ A-A	☒ N-N
☒ PE-29	9/27/11	1015	C	Water	Water	☒ A-A	☒ N-N
☒ MW-4	9/27/11	1055	C	Water	Water	☒ A-A	☒ N-N
☒ MW-135	9/27/11	1135	C	Water	Water	☒ A-A	☒ N-N
☒ PE-18	9/27/11	1205	C	Water	Water	☒ A-A	☒ N-N
☒ PE-19	9/27/11	1235	C	Water	Water	☒ A-A	☒ N-N
☒ PE-20	9/27/11	1255	C	Water	Water	☒ A-A	☒ N-N
☒ MW-2	9/27/11	1805	C	Water	Water	☒ A-A	☒ N-N
☒ MW-5	9/28/11	1425	C	Water	Water	☒ A-A	☒ N-N
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐		Disposal By Lab ☒		Active For ☐	
Special Instructions/OC Requirements:		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐		Disposal By Lab ☒	
Empty Kit Requisitioned by:		Date:	Time:	Method of Shipment:		Company:	
Requisitioned by: Don Zuck		Date: 9/29/11	Time: 1700	Method of Shipment: Trucks		Company: B. Zuck	
Requisitioned by: Don Zuck		Date: 9/29/11	Time: 1700	Method of Shipment: Trucks		Company: B. Zuck	
Requisitioned by: Don Zuck		Date: 9/29/11	Time: 1700	Method of Shipment: Trucks		Company: B. Zuck	
Custody Seal Intact: A Yes A No		Custody Seal No: 202.3		Custody Temperature: 202.3		Other Remarks:	

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sender: D. Fuchs		Lab PM: For Candace		Candace Tracking Ref: 480-16780-40202	
Client Contact: Mr. Dan Zuck		Phone: 516-368-2741		E-Mail: candace.fuchs@testamerica.com		Page 2 of 2	
Company: ARCADIS U.S., Inc.		Address: 6723 Towne PO BOX 66		City: SYRACUSE		State: NY	
Zip: 13214-0066		Fax: 516-452-7826 (Tel) 516-452-4386 (Fax)		Project #:		PO #:	
Email: dan.zuck@arcadis-us.com		Project Name: Lockheed Martin Corporation		Project #:		PO #:	
Site: New York		SSOW:		Field Filtered Sample (Yes or No)		Analysis Requested	
Sample Identification		Sample Date	Sample Time	Sample Type (Comp, G, L, S, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Analysis Requested
MW-1	9/28/11	1457	G	Water			
MW-3	9/28/11	1655	G	Water			
PZ-7	9/28/11	1900	G	Water			
PZ-6	9/28/11	1925	G	Water			
PZ-5	9/28/11	1950	G	Water			
PZ-4	9/28/11	1915	G	Water			
MW-14BR	9/29/11	1015	G	Water			
PZ-11R	9/29/11	1115	G	Water			
MW-10	9/29/11	1245	G	Water			
TB-092911	9/29/11		G	Water			
DWP-092911	9/29/11		G	Water			
Possible Hazard Identification:		Non-Hazard ☐ Flammable ☐ Non-Flammable ☐ Foreign B ☐ Unknown ☐ Radiological ☐		Sample Disposed (A fire may be assessed if samples are retained longer than 7 months)		Return To Client ☐ Disposed By Lab ☐ Archive For ☐ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/OC Requirements:		Empty Kit Relinquished by:		Time:	
Relinquished by: Daniel Fuchs		Date/Time: 9/29/11 1700		Company: TestAmerica		Received by: [Signature]	
Relinquished by:		Date/Time:		Company:		Received by:	
Custody Seal Inactive: A Yes B No		Custody Seal No.:		Coast Temperature(s) °C and Other Remarks:		Date/Time:	