Data Evaluation Summary Report
Jones Road Ground Water Plume Superfund Site
Remedial Design
Harris County, Texas
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LIST OF ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
CLP	Contract Laboratory Program
COC	Contaminant of concern
CCV	Continued calibration verification
CRQL	Contract Required Quantitation Limit
%D	Percent difference
DCE	Dichloroethene
DESR	Data Evaluation Summary Report
DQO	Data quality objectives
EA	EA Engineering, Science, and Technology, Inc.
EPA	U.S. Environmental Protection Agency
FID	Flame ionization detector
GC	Gas chromatography GC/MS Gas chromatography / mass spectrometry
IDW	Investigation-derived waste
LCS	Laboratory control sample
MDL	Method detection limit
MS	Matrix spike
MSD	Matrix spike duplicate
PARCCS	Precision, accuracy, completeness, comparability, representativeness, and sensitivity
PCE	Tetrachloroethene
QA/QC	Quality assurance/quality control
QC	Quality control
QL	Quantitation limit
%RSD	Percent relative standard deviation
RD	Remedial Design
RI	Remedial Investigation
RPD	Relative percent difference
RRF	Relative response factor
SAP	Sampling and Analysis Plan
SDG	Sample delivery group
Site	Jones Road Ground Water Superfund Site
SOP	Standard operating procedure
SOW	Statement of Work
TCE	Trichloroethene
%v/v	Volume concentration
VOC	Volatile organic compounds

1. INTRODUCTION

This document presents the third Data Evaluation Summary Report (DESR) prepared by EA Engineering, Science, and Technology, Inc., (EA) for the Jones Road Ground Water Plume Site (site) located in Harris County, Texas. This DESR, along with the previous DESRs (EA 2011d, EA 2012), documents and summarizes the analytical data collected during the Remedial Design (RD) field investigation. EA produced this DESR for the U.S. Environmental Protection Agency (EPA) Region 6 as part of Task Order No. 0070-RDRD-06NK under Remedial Action Contract No. EP-W-06-004, in accordance with the Statement of Work (SOW) issued by EPA (2010).

The purpose of the field investigation was to collect sufficient data to support the RD for the site. The media sampled included air, soil vapor, and ground water. The EPA RD SOW (EPA 2010) and the EPA approved Work Plan (EA 2011a) set forth the framework and requirements for this effort.

The purpose of the DESR is presented in Section 2. A data summary compiling, tabulating, and summarizing the data collected during the RD activities is provided in Section 3. The quality assurance/quality control (QA/QC) findings are presented in Section 4. Data evaluation parameters are presented in Section 5. The data quality objectives evaluation and conclusions are presented in Section 6. References are provided in Section 7. Supporting materials follow the text.

2. PURPOSE

The purpose of this DESR is to summarize analytical data quality and usability as related to the project-specific data quality objectives (DQOs) presented in the Sampling and Analysis Plan (SAP) (EA 2011b). The DQO process is a series of planning steps designed to ensure that the type, quantity, and quality of environmental data used in decision-making are appropriate for the intended application. The project-specific DQOs for the RD process were developed and presented in the SAP. The methods and techniques required to yield analytical data of acceptable quality and quantity to support DQOs are also outlined in the SAP.

The principal goals of the study derived from the DQO process are as follows:

1. Establish the vertical extent of source area contamination
2. Establish if dense non-aqueous phase liquid is present, implied, or explicit
3. Establish the vertical extent of source area requiring treatment
4. Constrain the horizontal extent of the source area requiring treatment
5. Collect sufficient aquifer parameter data via hydraulic testing to support a multi-layer ground water flow model and design of extraction well field
6. Verify or refute that indoor air is protective of human health
7. Conduct a field scale *in situ* pilot study to collect injection design parameters (e.g., flow rates, pressures, and radius or zone of influence)
8. Verify that source area remedy will result in favorable geochemical conditions and destroy contaminants
9. Verify that solute concentrations in the distal plume as measured in private water wells are current to establish area to be captured by extraction well field
10. Characterize investigation-derived waste (IDW) for disposal.

In order to help address the goals of the study, air and ground water were sampled for analysis as outlined in the SAP. Soil vapor samples were sampled for analysis as outlined in the SAP Addendum (EA 2011c).

3. DATA SUMMARY

This section presents a summary of the data collected during the RD field investigation. Media sampled included air (indoor air and sub-slab soil vapor) and ground water. Data summaries are presented in Attachment 1.

3.1 CONTAMINANTS OF CONCERN

The principal contaminants of concern (COCs) include tetrachloroethene (PCE) and its daughter products trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), trans-1,2-dichloroethene (trans-1,2-DCE), and vinyl chloride.

3.2 AIR

On 23 and 24 January 2013, EA collected indoor air and sub-slab samples. The samples were submitted for analysis to the EPA Region 6 Laboratory in Houston, Texas. On 22 and 23 March 2013, EA collected soil vapor samples from the soil vapor extraction wells. The soil vapor samples were submitted for analysis to TestAmerica Laboratories in Costa Mesa, California. The results of the air sample analyses are presented in Tables 1-1 and 1-2 in Attachment 1.

3.3 GROUND WATER

EA collected ground water samples from selected wells for the injection pilot test, including the baseline event (June 2012), 1 month post-injection (July 2012), 3 months post-injection (September 2012), and 6 months post-injection (December 2012). The ground water samples analyzed for volatile organic compounds (VOCs) and metals were submitted to the EPA Region 6 Laboratory and EPA contract laboratories. Ground water samples analyzed for monitored natural attenuation parameters were submitted to ALS Environmental in Houston, Texas. The results of the ground water analyses are presented in Table 1-3 in Attachment 1.

4. QUALITY ASSURANCE/QUALITY CONTROL

This section describes the quality assurance/quality control (QA/QC) findings for the analytical data provided by the supporting laboratories. A complete listing of analyses is presented in the project-specific SAP (EA 2011b) and SAP Addendum (EA 2011c). The project field samples were collected and sent to three types of laboratory facilities: (1) EPA Region 6 Laboratory, (2) EPA contract laboratories, and (3) the EA subcontractor laboratories. The following sections present the QA/QC results of the project data by laboratory type.

According to the requirements of the project-specific SAP (EA 2011b), the responsibility for the validation and review of the data from the EPA Region 6 Laboratory and EPA contract laboratories was held by the EPA. EA reviewed the electronic deliverables from these laboratories and determined they contained suitable data validation qualifiers and accompanying case narratives.

EA chemists validated the air data from the EA subcontractor laboratories in accordance with the EPA guidance Contract Laboratory Program (CLP) National Functional Guidelines (EPA 2008). In addition to the EPA validation guidance documents, acceptance criteria presented in the SAP and analytical methods was used for the validation. Ground water samples collected and analyzed at EA subcontractor laboratories as part of the injection pilot test (including monitored natural attenuation parameters) were not validated as described in the work plan (EA 2011a).

In preparing this DESR, the available data validation reports and case narratives were reviewed. The QA/QC findings are summarized in the following sections and only address those issues that resulted in the qualification of data. Other minor findings that were deemed insignificant to data quality are discussed in individual reports included in the attachments to this report.

4.1 EPA REGION 6 LABORATORY DATA

The data generated by the EPA Region 6 Laboratory were reviewed in accordance with the laboratory policy. The EPA Region 6 Laboratory performed VOC analyses by CLP method OLM04.2, total metals analyses by CLP method ILM05.3, and dissolved metals analyses by CLP method ILM05.3 on the ground water samples collected in June 2012. Ground water samples collected during July 2012 were analyzed by the EPA Region 6 Laboratory for VOCs by CLP method OLM04.2 and dissolved metals by CLP method ILM05.3.

The qualifiers and definitions used for the EPA Region 6 Laboratory data are presented in Table 1 (below). The deliverables included appropriate data qualifiers and accompanying data summaries. Attachment 2 of this DESR contains the analytical data reports and narratives for samples collected in June 2012 and July 2012 from the EPA Region 6 Laboratory.

TABLE 1
LABORATORY DATA VALIDATION QUALIFIERS

Qualifier	Definition
Data Qualifier Definitions for Data Review	
< or U	The analyte was analyzed for, but was not detected at a level greater than or equal to the method detection limit or reporting limit for sample and method.
B	Compound was detected in the sample and the associated laboratory blank.
J	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the quantitation limit).
+ or ^	High biased. Actual concentration may be lower than the concentration reported.
– or v	Low biased. Actual concentration may be higher than the concentration reported.
L	Reported concentration is below the CRQL.
UJ	The analyte was analyzed for, but was not detected above the adjusted method detection limit or was detected in a blank sample at a similar concentration. The reported adjusted quantitation limit is approximate and may be inaccurate or imprecise.
R	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

The EPA Region 6 Laboratory data did not require validation by EA as specified in the project-specific SAP (EA 2011b). The laboratory reports contained narratives with general information regarding data quality, which is summarized below. The laboratory did not reject any data; therefore the data were usable as reported.

- **Report 12SF115 for samples collected in June 2012 (report date 07/16/2012):**
  - Vinyl chloride results in sample 1206008-03 and TCE in sample 1206008-05 are qualified as estimated due to inconsistent concentrations between vials used for analysis.
  - The spike recoveries of two analytes (1,1,2-trichloro-1,2,2-trifluoroethane and methylcyclohexane) were recovered low in the blank spikes. These analytes were not detected in the project samples. The reviewer did not qualify the data.
  - The calculated relative percent difference (RPD) for 1,1-dichloroethene was above the QC limit in the matrix spike/ matrix spike duplicate (MS/MSD) samples. This analyte was not detected in the project samples. The reviewer did not qualify the data.

- The spike recovery of calcium was outside the acceptance limits in the MS/MSD for total metals; the corresponding result was qualified as estimated.
- Calcium and cadmium spike recoveries were outside the acceptance limits in the MS/MSD samples for dissolved metals; the corresponding results were qualified as estimated.

- **Report 12SF143 for samples collected in July 2012 (report date 08/21/2012):**
  - Acetone results were qualified as estimated, where reported, due to failure of this analyte in the alternate source check for the calibration.
  - PCE results were qualified as estimated in samples 1207009-02 and 1207009-03 due to inconsistent concentrations found between vials used for analysis.
  - Vinyl chloride result was qualified as estimated in sample 1207009-04 because the value reported is above the calibration range and could not be reported from another dilution.
  - TCE recoveries and the associated RPD were above QC limits in the MSD sample, and the RPDs for benzene and toluene were above QC limits. It appears that more spike was added to the MSD sample than the MS sample, causing the failures. No bias was placed on source results for TCE.
  - The recovery of three analytes (dichlorodifluoromethane, chloromethane, and isopropylbenzene) was low in the blank spike but these analytes were not found in the samples. No data were qualified by the reviewer.
  - For metals, the recoveries of potassium were high in the MS/MSD samples, and the recovery of silver was below QC limits in the MS/MSD. The results were qualified as estimated by the reviewer.

4.2 EPA CONTRACTED LABORATORY DATA – GROUND WATER

The data generated by the EPA contracted laboratories were reviewed in accordance with the laboratory policy. EPA contracted laboratories performed VOC analyses by SOM01.2 and dissolved metals analyses by ISM01.3 on the ground water samples collected in September 2012 and December 2012.

The qualifiers and definitions used for the EPA contract laboratory data are presented in Table 1 (below). The deliverables included appropriate data qualifiers and accompanying data summaries. Attachment 2 of this DESR contains the analytical data reports and narratives for samples collected in September 2012 and December 2012.

The EPA contracted laboratory data did not require validation by EA as specified in the project-specific SAP (EA 2011b). The laboratory reports contained narratives with general information regarding data quality, which is summarized below. The laboratory did not reject any data; therefore the data were usable as reported.

- **Case 42390 Sample Delivery Group (SDG) F6EQ0 for samples collected in September 2012 (report date 11/13/2012):**
  - 1,4-Dioxane did not meet the technical minimum relative response factor (RRF) criterion for the calibrations. Because the initial calibration raw data demonstrated the instrument sensitivity at the contract required quantitation limit (CRQL), the reviewer did not reject the associated non-detect results. Instead, the reviewer qualified the reported 1,4-dioxane quantitation limit (QL) as estimated and biased low for all samples because the associated closing continuing calibration verification (CCV) data indicated a significant loss of instrument response for 1,4-dioxane. In the reviewer's opinion, the actual QL for this analyte could be up to ten times the reported value.
  - The reviewer qualified the acetone result for all samples as estimated because acetone failed the technical percent difference (%D) criteria for the associated closing CCV.
  - One of the surrogate recoveries in sample F6EQ5 was above the QC limit. Therefore, the reviewer qualified the detected trans-1,2-DCE result, which is associated with this surrogate, as estimated and biased high.
- **Case 42390 SDG MF6EQ0 for samples collected in September 2012 (report date 11/8/2012):**
  - Because of laboratory blank readings, results <CRQLs for the following analytes should be considered nondetectable and were qualified "U" at the CRQLs: antimony, copper, lead, silver, thallium, and vanadium.
  - The reviewer qualified the detected results for arsenic and selenium as estimated because the pre-digestion MS recoveries for these analytes were above the QC limit. The associated post-digestion MS recoveries did not indicate a bias effect.
  - The reviewer qualified as estimated the results for the following analytes because the serial dilution %Ds for these analytes were above the QC limit: calcium, chromium, magnesium, and sodium.

- **Case 43169 SDG F6KW0 for samples collected in December 2012 (report date 1/17/2013):**
  - The non-halogenated aromatic VOC results should be considered minimum values because of the potential for biological activity.
  - Because of method blank contamination, the laboratory "B"-flagged the methylene chloride results for all samples that are <CRQL. These results should be considered undetected and were flagged "U" at the CRQL.
  - The reviewer qualified the 1,4-dioxane result for sample F6KW2 as unusable because associated surrogate had a very low recovery (<20%).
  - The reviewer qualified as estimated and biased low the results for samples F6KW1, F6KW4, and F6KW5 due to low surrogate recoveries.
  - The reviewer qualified the cis-1,2-DCE result for sample F6KW2 as estimated because this result was inconsistent with the cis-1,2-DCE result from the trace VOC analysis.
- **Case 43169 SDG MF6KW0 for samples collected in December 2012 (report date 1/23/2013):**
  - Because of laboratory blank readings, all sample results <CRQLs for the following analytes should be considered nondetectable and were flagged "U" at the CRQLs: aluminum, antimony, arsenic, beryllium, cobalt, copper, iron, lead, manganese, silver, and thallium.

4.3 EA CONTRACTED LABORATORY DATA - AIR

The validation of project data generated by EA contracted laboratories was performed by EA project chemists in accordance with the most current CLP guidelines (EPA 2008) for completing data validation for applicable test methods. General procedures in the CLP guidelines were modified, as necessary, to fit the specific analytical method that was used to produce the data. In cases, data validation requirements depended on: (1) DQOs that are defined in Section 1.3 of the SAP; (2) reporting requirements that are defined in Section 1.5 of the SAP; and (3) data deliverables that are requested from the laboratory. Air analyses were performed by TestAmerica Laboratories. The data are summarized in Attachment 1, Table 1-2 of the DESR.

The qualifiers and definitions used for the EA contracted laboratory data are presented in Table 1. The deliverables, which may be found in Attachment 2, included appropriate data qualifiers and accompanying data summaries. Attachment 3 of this DESR contains the air data validation report for Sample Delivery Group (SDG) J5923.

The following analyses were included in the validated data:

- VOCs by EPA Method TO-15
- Fixed gases including methane, ethane, and ethene by ASTM D1946.

The data validation findings are summarized in the following sections.

4.3.1 Method TO-15

Air samples were collected and analyzed for VOCs by EPA Method TO-15.

4.3.1.1 Sample Condition at Receipt and Holding Times

The samples were received by the laboratory in good condition and analyzed within the method-specified holding time.

4.3.1.2 Gas Chromatograph/Mass Spectrometry Instrument Performance Check

The ion abundance criteria were met for the bromofluorobenzene gas chromatography/mass spectrometry (GC/MS) performance checks.

4.3.1.3 Instrument Calibrations

The initial calibration percent relative standard deviations (%RSD) were within 30 percent for the target compounds.

The continuing calibration was performed at the correct frequency. The continuing calibration %Ds were within QC limits for the target compounds.

4.3.1.4 Blanks

The target compounds were not detected in the method blank. A trip blank was not collected with this SDG.

4.3.1.5 Surrogate Recovery

System monitoring compounds (surrogates) were added to the environmental and QC samples and standards for analysis of organic compounds as required by the referenced methodology. The percent recoveries were within the laboratory-established control limits for project samples.

4.3.1.6 Laboratory Control Sample

Qualification was not required due to laboratory control sample (LCS) recoveries.

4.3.1.7 Field Duplicate

A field duplicate sample was not collected in this SDG.

4.3.1.8 Internal Standard Performance

The internal standard response and retention times were within QC limits for the project samples and associated QC samples.

4.3.1.9 Quantitation and Reported Detection Limits

Detection limits not meeting project requirements are discussed in Section 5.3 of this report.

4.3.2 Method D1946

Air samples were collected and analyzed for fixed gases in air by American Society for Testing and Materials (ASTM) method D1946 using gas chromatography(GC)/thermal conductivity detector. Methane and carbon dioxide were analyzed with a GC/flame ionization detector (FID).

4.3.2.1 Sample Condition at Receipt and Holding Times

The samples were received by the laboratory in good condition. The sample containers were received intact and within the temperature requirements.

The samples were analyzed within the required holding time.

4.3.2.2 Calibrations

The correlation coefficients (r-squared values) and percent relative standard deviations (%RSD) values (as appropriate) for the initial calibration were within the acceptable QC limits.

The continuing calibration percent differences (%Ds) were within acceptable limits for the target compounds.

4.3.2.3 Blanks

No target compounds were detected in the laboratory method blank, unless otherwise noted.

Ethene was detected in method blank 340-3877 at a volume concentration of 0.000222 %v/v (volume concentration. Ethene was detected at similar concentrations in samples SVE-04 and IW-01D; these results were qualified (UJ).

Ethene was detected in method blank 340-3886 at a volume concentration of 0.000163 %v/v. Ethene was not detected in the associated project samples. Therefore, no data were qualified.

No trip blanks were collected in this SDG.

4.3.2.4 Laboratory Control Sample

The LCS recoveries and calculated RPDs were within acceptable limits.

4.3.2.5 Field Duplicate

A field duplicate sample was not collected in this SDG.

4.3.2.6 Quantitation and Reported Detection Limits

Results detected above the detection limit but less than the reporting limit were qualified (J) by the laboratory.

5. DATA EVALUATION PARAMETERS

The data were evaluated for acceptable quality and quantity based on the critical indicator parameters, represented by precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). To the extent possible, EA followed EPA's data quality assessment process (EPA 2006a; 2006b). This evaluation helps determine whether limitations should be placed on the data and to verify that the type, quality, and quantity of data that are collected are appropriate for their intended use. The PARCCS parameters were reviewed for the laboratory analytical data results and are discussed in the following sections.

As discussed above, when analysis was conducted at an EPA laboratory or when analysis was conducted under EPA's contract laboratory program, EPA evaluated the data to see whether limitations should be placed on them. EPA evaluations are included with the EPA data packages in Attachment 2. When EA subcontracted directly with a laboratory for analysis, EA conducted the data evaluation, and such evaluations are presented in the Data Validation Reports in Attachment 3.

A well-defined QA/QC process is integral to the generation of analytical data of known and documented quality. The QC process includes those activities required during data collection to produce data of sufficient quality to support the decisions that will be made based on the data (e.g., decisions to be made prior to, during, and after site remedial actions). After environmental data are collected, QA activities focus on evaluating the quality of the data in order to determine the data usability with respect to support for remedial or enforcement decisions. Table 2 presents the acceptance criteria for definitive laboratory data for chemical analyses of investigation samples only.

5.1 DATA CATEGORIES

In order to produce data suitable for decision-making, an appropriate analytical technique must be selected. The EPA Superfund program has developed two descriptive categories of analytical techniques: (1) field-based techniques, and (2) fixed-laboratory techniques. The type of data generated depends on the qualitative and quantitative DQOs developed for a project. Regardless of how the data were analyzed, they must be of adequate quality for the decision-making process for which they were collected. Both field-based and definitive analytical data may be used to support decisions made for this project.

Rigorous analytical methods (e.g., EPA CLP methods) are used to generate analyte-specific, definitive data. The definitive quality of the data is assured by: (1) using standard operating procedures (SOP) and QC processes during data collection; (2) documented control and traceability of reference standards, calibrations, and instrument performance; and (3) acceptable

performance of field and laboratory QC procedures within the defined limits established for these procedures.

5.2 MEASUREMENT QUALITY OBJECTIVES

Analytical results were evaluated in accordance with PARCCS parameters to document the quality of the data and to ensure that the data are of sufficient quality to meet the project objectives. Of these PARCCS parameters, precision and accuracy were evaluated quantitatively by collecting the QC check samples listed in Table 2 (below).

The sections below describe each of the PARCCS parameters and how they were assessed within this project.

5.2.1 Precision

Precision is the degree of mutual agreement between individual measurements of the same property under similar conditions. Usually, combined field and laboratory precision is evaluated by collecting and analyzing field duplicates and then calculating the variance between the samples, typically as a RPD.

RPD is calculated as follows:

$$\text{RPD} = \frac{|A - B|}{(A + B)/2} \times 100\%$$

where: A = first duplicate concentration
B = second duplicate concentration

The acceptance criteria for each analytical methodology are presented in the SAP (EA 2011b). Duplicate results were evaluated for compliance with acceptance criteria for precision for each analytical method. RPD evaluations are documented in the individual data validation report for each SDG that was validated for MS/MSD and laboratory replicate pairs. A summary of the samples collected is presented in Attachment 1. The field duplicate RPD evaluations for

TABLE 2
QUALITY ASSURANCE INDICATOR CRITERIA

Indicator Parameter	Analytical Parameter	QC Sample	Acceptance Criteria for Laboratory Analysis
Accuracy (percent recovery)	VOCs, organic monitored natural attenuation parameters (if applicable)	MS, MSD Blanks	50-150 percent recovery Less than CRQLs

Indicator Parameter	Analytical Parameter	QC Sample	Acceptance Criteria for Laboratory Analysis
	Metals, inorganic monitored natural attenuation parameters (if appropriate)	MS LCS Blanks	75-125 percent recovery 80-120 percent recovery Less than CRQLs
Precision (RPD)	VOCs, organic monitored natural attenuation parameters (if applicable)	MS, MSD Field duplicates	30 percent RPD 50 percent RPD
	Metals, inorganic monitored natural attenuation parameters (if applicable)	MS, MD Field duplicates	20 percent RPD (aqueous) 35 percent RPD (solid) 50 percent RPD
Sensitivity (quantitation limits)	All analytical tests	MS, MD, MSD Field duplicates	Not applicable
Completeness	The objective for data completeness is 90 percent.		
Representativeness	The sampling network analytical methods for this site are designed to provide data that are representative of site conditions.		
Comparability	The use of standard published sampling and analytical methods, and the use of QC samples, will ensure data of known quality. These data can be compared to any other data of known quality.		

NOTE: MD = Matrix duplicate
MS = Matrix spike
MSD = Matrix spike duplicate
RPD = Relative percent difference
VOCs = Volatile organic compounds

detected COCs are also presented in Tables 4-1 and 4-2 of Attachment 4. The SAP criterion for field duplicate precision is 50 percent RPD or as shown in the EPA CLP SOW as applicable. The field duplicates were within the 50 percent criterion, with the exceptions noted in Table 4-1 and 4-2. These results were qualified as estimated in the data summary tables.

The SAP specifies that a minimum of 1 in 10 (10 percent) of VOC samples be submitted as field duplicates to the laboratory (EA 2011b). Field duplicate pairs were collected, analyzed, and evaluated for the ground water and indoor air samples. Field duplicate samples were not collected for the soil vapor samples. The individual frequencies of field duplicate pairs submitted to the laboratory for analysis are provided in Table 3 (below).

TABLE 3
FIELD DUPLICATE FREQUENCY

Matrix	Samples	Field Duplicates	Frequency (%)
Ground water	28	4	14
Air (indoor air samples)	7	1	14

5.2.2 Accuracy

Accuracy is the degree to which a measurement agrees with its true value and is expressed as percent recovery; acceptance criteria for each analytical methodology are stated in the SAP (EA 2011b). Accuracy is assessed by comparing MS, LCS, and surrogate recoveries to associated QC limits. Through the process of data validation and review, MS, LCS, and surrogate recoveries were evaluated for compliance with acceptance criteria for accuracy for each applicable analytical methodology.

MS and MSD sample pairs were prepared and analyzed at a minimum frequency of 5 percent. LCSs or blank spikes are also analyzed at a minimum frequency of 5 percent. Surrogate standards, where available, are added to every sample analyzed for organic constituents. The results of the spiked samples are used to calculate the percent recovery for evaluating accuracy. The evaluations of percent recovery are documented in Attachment 2 and Attachment 3.

$$\text{Percent Recovery} = \frac{S - C}{T} \times 100\%$$

where: S = measured spike sample concentration
C = sample concentration
T = true or actual concentration of the spike

5.2.3 Representativeness

Representativeness is a qualitative parameter and is defined by the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or a process or environmental condition. Sample results were evaluated for representativeness by examining items related to sample collection, including chain-of-custody documentation, sample labeling, collection dates, and condition of the samples upon receipt at the laboratory. Laboratory procedures (including anomalies reported by the laboratory) were also examined, either upon receipt of the samples at the laboratory or during analytical processes. Procedures that were examined included adherence to recommended holding times of samples prior to analysis, calibration of laboratory instruments, adherence to analytical methods, and completeness of data package documentation. Any item that may have adversely affected the representativeness of the sample result is documented in the data validation narratives.

The samples were analyzed within the holding times specified by the methods. Equipment blanks, calibration blanks, and preparation blank results were evaluated during the data validation or review process to determine whether equipment decontamination procedures (equipment rinsate) or laboratory conditions (preparation or calibration blanks) affected sample

results. Low level blank contamination was reported for samples. The analytical results for the laboratory preparation method blanks were discussed in Section 4 for each analysis.

The field investigation program, which was outlined in the SAP (EA 2011b), was designed to answer the principal goals of the study from the DQO process outlined in Section 2 of this report. It is important that the data collected during the field investigation are suitable and sufficient to accomplish these goals. To satisfy these sampling goals, judgmental sample locations were selected. The judgmental sample locations were selected based on historical site evidence (e.g., source locations, previous ground water sampling results, etc.) or visual cues during the site reconnaissance. Because the sources of contamination are associated with former dry cleaning activities, VOCs were sampled more frequently (i.e., the sample density was higher) to ensure that the data set was robust enough to determine the extent of contamination.

An evaluation of spatial distribution and sample density is an inexact science that is often subject to opinion and conjecture. Data sets inherently have some level of uncertainty with regard to the representativeness of the characterization. Although the level of uncertainty varies from area to area, the acceptable level of uncertainty is often individualistic and subject to interpretation. Essentially, there is a delicate balance between expending additional effort to characterize an area and the necessity for additional data to reduce uncertainty in the data set.

To evaluate the robustness of the data set, two criteria were utilized in a semi-quantitative weight-of-evidence evaluation:

- *Is sampling sufficient to: (1) determine the nature and extent of contamination; and (2) calculate an exposure point concentration for risk assessment?*
- *Is the spatial distribution and sample density adequate to evaluate the nature and extent of contamination and complete the migration pathway analyses?*

The above criteria were met for the ground water samples. EPA guidance recommends that a minimum of 8 to 10 samples are necessary for a data set, but only seven air samples were collected for the January 2013 air sampling event, based on the following circumstances. The nature and extent of the contamination and migration pathways were previously evaluated in the Remedial Investigation (RI) and associated risk assessments (TCEQ 2009). The January 2013 air samples were collected in the same locations as the RI to evaluate the potential for vapor intrusion; therefore these criteria were not applicable. A technical memorandum regarding the 2013 vapor intrusion evaluation is included in Attachment 5.

5.2.4 Completeness

Completeness is defined as the percentage of measurements judged to be valid. The validity of sample results is determined through the data validation process. The rejected (R) sample results

are considered to be incomplete. The data that are qualified as estimated (J) or estimated nondetected (UJ) are considered to be valid and usable. The completeness is calculated and reported for each method and analyte combination. The number of valid results divided by the number of possible individual analyte results, expressed as a percentage, determines the completeness of the data set.

The percent completeness was acceptable. One sample result was rejected out of a total of 2,688 total sample results, resulting in 99.96 percent completeness for the overall project.

5.2.5 Comparability

Comparability of the data is a qualitative parameter that expresses the confidence with which one data set may be compared to another. Comparability of the data is achieved by using standard methods for sampling and analysis, reporting data in standard units, normalizing results to standard conditions, and using standardized reporting formats and data validation procedures. Standard EPA analytical methods and QC were used to support the comparability of analytical results with those obtained in other testing. Calibrations were performed in accordance with EPA or manufacturer's specifications and were checked with the frequency specified in the EPA methods. No method substitutions were observed that reduced the quality of the data for comparison purposes.

Sensitivity

Sensitivity is the measure of the signal from an instrument that represents an actual deflection or response above instrument noise. The analytical sensitivity is measured by the method detection limit (MDL) or instrument detection limit and reported with the necessary dilution factors and preparation factors of an individual sample as the sample quantitation limit.

Ideally the lowest of the detection limits outlined by the laboratories would be below human health screening levels; analytically achievable quantitation limits are not always low enough to meet this goal. Detection limits not meeting the applicable screening levels are discussed in Section 5.3 of this report.

5.3 DETECTION AND QUANTITATION LIMITS

The analytical parameters and their quantitation limits for use on this project are determined under the EPA method. The MDL is the minimum concentration of an analyte that can be reliably distinguished from background noise for a specific analytical method. The quantitation limit (or reporting limit) represents the lowest concentration of an analyte that can be accurately and reproducibly quantified in a sample matrix. Quantitation limits are the specified maximum quantitation limits for specific analytical methods and sample matrices, such as soil or water, and are typically several times the MDL to allow for matrix effects.

For this project, analytical methods were selected so that the quantitation limit for each target analyte was below the applicable regulatory screening criteria and/or specific project requirements, wherever practical. For this project, sample results were reported as estimated values if concentrations were less than quantitation limits but greater than MDLs. The MDL for each analyte met the applicable screening criteria unless otherwise noted below:

- The results for sample ASI-101-DUP-01232013 were reported at a dilution factor of 10. TCE was reported as non-detect at a reporting limit above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to detections of PCE.

- The results for sample SVE-04 were reported at a dilution factor of 3.72. Vinyl chloride was reported as non-detect at a reporting limit above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE and TCE.

- The results for sample SVE-05 were reported at a dilution factor of 41.6. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-02 were reported at a dilution factor of 258. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample IW-01D were reported at a dilution factor of 4.96. Vinyl chloride was reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE and TCE.

- The results for sample SVE-03 were reported at a dilution factor of 14.7. Vinyl chloride was reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-01-1 were reported at a dilution factor of 91. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-01-2 were reported at a dilution factor of 146. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the

applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-01-3 were reported at a dilution factor of 154. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-01-4 were reported at a dilution factor of 124. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

- The results for sample SVE-01-5 were reported at a dilution factor of 130. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

6. DATA QUALITY OBJECTIVES AND CONCLUSIONS

Based on the data validation findings summarized in Section 4, data were either determined to be usable or qualified as estimated with the following exception.

- The reviewer qualified the 1,4-dioxane result for sample F6KW2 as unusable because associated surrogate had a very low recovery (<20%).

One of the goals of the RD field investigation and data collection efforts was to obtain results of known quality that can support the RD. Based upon an overall review of the results presented within this DESR, the following issues are of importance in this evaluation.

6.1 CONTAMINANTS OF CONCERN TARGETED

Industry-specific wastes, existing site data, and operational history were considered in development of the SAP (EA 2011b). Because the SAP set forth the DQOs for the site based on knowledge of past site operations and the findings of the previous investigations, the target chemicals were appropriately analyzed and targeted in the RD field investigation.

6.2 MEDIA VARIABILITY

The media of concern were air and ground water. Field QC samples including field duplicates, MS/MSD samples, equipment rinsates, and trip blanks were collected to ensure that measurement error was reduced and to increase general confidence in the analytical results.

6.3 LABORATORY PERFORMANCE PROBLEMS

In general, the laboratory performance met QC limits. Refer to Section 4 for a more detailed discussion of laboratory performance issues.

6.4 CONCLUSIONS

The analytical results for these sampling events met overall project objectives for the quantity and quality of data required to support the decision-making process for this investigation. A technical memorandum regarding the indoor air samples is included in Attachment 5, which includes an interpretation of the data collected.

Data without qualifiers and data qualified as estimated are usable for purposes in supporting project objectives. Data qualified as unusable should not be used for any purpose. Validated data were also found to be representative and comparable for the samples. Precision and accuracy were acceptable.

7. REFERENCES

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Attachment 1

Data Summary Tables

Table 1-1 Air Data Summary - January 2013

Sample ID	ASS-101-01242013	ASI-101-01232013	ASI-101-DUP-01232013	ASI-102-01232013	ASS-102-01232013	ASBKG-01232013	ASTB-01232013 TRIPBLANK
Sample Date	1/24/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013	1/23/2013
Units	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3	µg/m^3
1,1,1-Trichloroethane	<270	<1.4	<14	<1.4	<27	<1.4	<1.4
1,1,2,2-Tetrachloroethane	<340	<1.7	<17	<1.7	<34	<1.7	<1.7
1,1,2-Trichloro-1,2,2-trifluoroethane	<380	<1.9	<19	<1.9	<38	<1.9	<1.9
1,1,2-Trichloroethane	<270	<1.4	<14	<1.4	<27	<1.4	<1.4
1,1-Dichloroethane	<200	<1.0	<10	<1.0	<20	<1.0	<1.0
1,1-Dichloroethene	<200	<0.99	<9.9	<0.99	<20	<0.99	<0.99
1,2,4-Trichlorobenzene	<370	<1.9	<19	<1.9	<37	<1.9	<1.9
1,2,4-Trimethylbenzene	<250	<1.2	<12	<1.2	<25	<1.2	<1.2
1,2-Dibromoethane	<380	<1.9	<19	<1.9	<38	<1.9	<1.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane	<350	<1.7	<17	<1.7	<35	<1.7	<1.7
1,2-Dichlorobenzene	<300	<1.5	<15	<1.5	<30	<1.5	<1.5
1,2-Dichloroethane	<200	<1.0	<10	<1.0	<20	<1.0	<1.0
1,2-Dichloropropane	<230	<1.2	<12	<1.2	<23	<1.2	<1.2
1,3,5-Trimethylbenzene	<250	<1.2	<12	<1.2	<25	<1.2	<1.2
1,3-Butadiene	<110	<0.55	<5.5	<0.55	<11	<0.55	<0.55
1,3-Dichlorobenzene	<300	<1.5	<15	<1.5	<30	<1.5	<1.5
1,4-Dichlorobenzene	<300	<1.5	<15	<1.5	<30	<1.5	<1.5
Acrylonitrile	<110	<0.54	<5.4	<0.54	<11	<0.54	<0.54
Benzene	<160	**2.1**	**2.2**	**2.3**	**5.8**	**2.5**	<0.16
Bromomethane	<190	<0.97	<9.7	<0.97	<19	<0.97	<0.97
Carbon tetrachloride	<310	<1.6	<16	<1.6	<31	<1.6	<1.6
Chlorobenzene	<230	<1.2	<12	<1.2	<23	<1.2	<1.2
Chloroethane	<130	<0.66	<6.6	<0.66	<13	<0.66	<0.66
Chloroform	<240	<1.2	<12	<1.2	**170**	<1.2	<1.2
Chloromethane	<100	**1.2**	<5.2	**1.4**	<10	**1.3**	<0.52
cis-1,2-Dichloroethene	**2900**	**2.0**	**2.0**	**1.9**	**310**	<0.20	<0.20
cis-1,3-Dichloropropene	<230	<1.1	<11	<1.1	<23	<1.1	<1.1
Dichlorodifluoromethane	<250	**2.2**	<12	**2.7**	<25	**2.4**	<1.2
Ethylbenzene	<220	<1.1	<11	<1.1	<22	<1.1	1.1
Hexachlorobutadiene	<530	<2.7	<27	<2.7	<53	<2.7	2.7
meta-/para-Xylene	<220	**3.0**	<11	**2.6**	<22	**3.3**	<1.1
Methylene chloride	<170	**2.3 B**	<8.7	**2.4 B**	<17	**1.3 B**	<0.87
ortho-Xylene	<220	**1.2**	<11	<1.1	<22	**1.3**	<1.1
Styrene	<210	<1.1	<11	<1.1	<21	<1.1	<1.1
Tetrachloroethene	**170000**	**8.2 J**	**17 J**	**6.4**	**410000**	**0.34**	<0.34
Toluene	<190	**3.7**	<9.4	**3.4**	<19	**4.2**	<0.94
trans-1,3-Dichloropropene	<230	<1.1	<11	<1.1	<23	<1.1	<1.1
Trichloroethene	**20000**	**1.6**	<2.7	**1.3**	**11000**	<0.27	<0.27
Trichlorofluoromethane	<280	<1.4	<14	**1.4**	<28	<1.4	<1.4
Vinyl chloride	<130	<0.13	<1.3	<0.13	**4.1**	<0.13	<0.13

NOTE:

B - Blank related. The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion, and/or analysis blank. Presence in the sample is therefore suspect.
J - Concentration is considered an approximate value.

Table 1-2 Air Data Analyses Summary, January 2013

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Carbon Dioxide (FID)	**0.51**	% v/v		0.02
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Carbon monoxide	**0.00087**	% v/v	J	0.0018
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Ethane	0.00099	% v/v	U	0.00099
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Ethene	**0.00077**	% v/v	UJ B	0.00099
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Methane (FID)	**0.005**	% v/v		0.00079
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Nitrogen	**76**	% v/v		3.6
1W-01D	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Oxygen	**22**	% v/v		0.4
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	1,1-Dichloroethene	79	ug/m3	U	79
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Benzene	63	ug/m3	U	63
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Chloroform	97	ug/m3	U	97
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	cis-1,2-Dichloroethene	**490**	ug/m3		79
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Methyl-t-Butyl Ether (MTBE)	72	ug/m3	U	72
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Tetrachloroethene	**7600**	ug/m3		130
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Toluene	**38**	ug/m3	J	75
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	trans-1,2-Dichloroethene	79	ug/m3	U	79
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Trichloroethene	**330**	ug/m3		110
1W-01D	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	4.96	Vinyl chloride	51	ug/m3	U	51
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Carbon Dioxide (TCD)	**1.7**	% v/v		0.018
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Carbon monoxide	**0.00069**	% v/v	J	0.0017
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Ethane	0.00091	% v/v	U	0.00091
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Ethene	0.00091	% v/v	U	0.00091
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Methane (FID)	**0.0016**	% v/v		0.00073
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Nitrogen	**77**	% v/v		3.3
SVE-01-1	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.82	Oxygen	**21**	% v/v		0.36
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	1,1-Dichloroethene	1400	ug/m3	U	1400
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Benzene	1200	ug/m3	U	1200
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Chloroform	1800	ug/m3	U	1800
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	cis-1,2-Dichloroethene	**4700**	ug/m3		1400
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Methyl-t-Butyl Ether (MTBE)	1300	ug/m3	U	1300
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Tetrachloroethene	**80000**	ug/m3		2500
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Toluene	1400	ug/m3	U	1400
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	trans-1,2-Dichloroethene	1400	ug/m3	U	1400
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Trichloroethene	**3400**	ug/m3		2000
SVE-01-1	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	91	Vinyl chloride	930	ug/m3	U	930
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Carbon Dioxide (TCD)	**2.9**	% v/v		0.018
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Carbon monoxide	**0.00068**	% v/v	J	0.0016
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Ethane	0.00088	% v/v	U	0.00088
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Ethene	0.00088	% v/v	U	0.00088
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Methane (FID)	**0.0025**	% v/v		0.0007
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Nitrogen	**77**	% v/v		3.2
SVE-01-2	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.75	Oxygen	**20**	% v/v		0.35
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	1,1-Dichloroethene	2300	ug/m3	U	2300
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Benzene	1900	ug/m3	U	1900
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Chloroform	2900	ug/m3	U	2900
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	cis-1,2-Dichloroethene	**8900**	ug/m3		2300
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Methyl-t-Butyl Ether (MTBE)	2100	ug/m3	U	2100
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Tetrachloroethene	**150000**	ug/m3		4000
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Toluene	2200	ug/m3	U	2200
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	trans-1,2-Dichloroethene	2300	ug/m3	U	2300

Table 1-2 Air Data Analyses Summary, January 2013

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Trichloroethene	**6400**	ug/m3		3100
SVE-01-2	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	146	Vinyl chloride	1500	ug/m3	U	1500
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Carbon Dioxide (TCD)	**3**	% v/v		0.018
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Carbon monoxide	0.0017	% v/v	U	0.0017
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Ethane	0.00092	% v/v	U	0.00092
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Ethene	0.00092	% v/v	U	0.00092
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Methane (FID)	**0.0025**	% v/v		0.00074
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Nitrogen	**76**	% v/v		3.3
SVE-01-3	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.84	Oxygen	**20**	% v/v		0.37
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	1,1-Dichloroethene	2400	ug/m3	U	2400
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Benzene	2000	ug/m3	U	2000
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Chloroform	3000	ug/m3	U	3000
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	cis-1,2-Dichloroethene	**8600**	ug/m3		2400
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Methyl-t-Butyl Ether (MTBE)	2200	ug/m3	U	2200
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Tetrachloroethene	**150000**	ug/m3		4200
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Toluene	2300	ug/m3	U	2300
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	trans-1,2-Dichloroethene	2400	ug/m3	U	2400
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Trichloroethene	**6200**	ug/m3		3300
SVE-01-3	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	154	Vinyl chloride	1600	ug/m3	U	1600
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Carbon Dioxide (TCD)	**3**	% v/v		0.02
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Carbon monoxide	0.0018	% v/v	U	0.0018
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Ethane	0.00099	% v/v	U	0.00099
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Ethene	0.00099	% v/v	U	0.00099
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Methane (FID)	**0.0025**	% v/v		0.00079
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Nitrogen	**77**	% v/v		3.6
SVE-01-4	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.98	Oxygen	**20**	% v/v		0.4
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	1,1-Dichloroethene	2000	ug/m3	U	2000
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Benzene	1600	ug/m3	U	1600
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Chloroform	2400	ug/m3	U	2400
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	cis-1,2-Dichloroethene	**9000**	ug/m3		2000
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Methyl-t-Butyl Ether (MTBE)	1800	ug/m3	U	1800
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Tetrachloroethene	**140000**	ug/m3		3400
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Toluene	1900	ug/m3	U	1900
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	trans-1,2-Dichloroethene	2000	ug/m3	U	2000
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Trichloroethene	**6000**	ug/m3		2700
SVE-01-4	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	124	Vinyl chloride	1300	ug/m3	U	1300
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Carbon Dioxide (TCD)	**2.9**	% v/v		0.018
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Carbon monoxide	0.0017	% v/v	U	0.0017
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Ethane	0.00092	% v/v	U	0.00092
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Ethene	0.00092	% v/v	U	0.00092
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Methane (FID)	**0.0026**	% v/v		0.00073
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Nitrogen	**77**	% v/v		3.3
SVE-01-5	1/22/2013	Air	D1946 Fixed Gases in Air (GC)	1.83	Oxygen	**20**	% v/v		0.37
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	1,1-Dichloroethene	2100	ug/m3	U	2100
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Benzene	1700	ug/m3	U	1700
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Chloroform	2500	ug/m3	U	2500
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	cis-1,2-Dichloroethene	**8500**	ug/m3		2100
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Methyl-t-Butyl Ether (MTBE)	1900	ug/m3	U	1900
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Tetrachloroethene	**140000**	ug/m3		3500

Table 1-2 Air Data Analyses Summary, January 2013

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Toluene	2000	ug/m3	U	2000
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	trans-1,2-Dichloroethene	2100	ug/m3	U	2100
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Trichloroethene	**5800**	ug/m3		2800
SVE-01-5	1/22/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	130	Vinyl chloride	1300	ug/m3	U	1300
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Carbon Dioxide (TCD)	**3.7**	% v/v		0.021
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Carbon monoxide	**0.00095**	% v/v	J	0.0019
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Ethane	0.001	% v/v	U	0.001
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Ethene	0.001	% v/v	U	0.001
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Methane (FID)	**0.019**	% v/v		0.00082
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Nitrogen	**75**	% v/v		3.7
SVE-02	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.06	Oxygen	**19**	% v/v		0.41
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	1,1-Dichloroethene	4100	ug/m3	U	4100
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Benzene	3300	ug/m3	U	3300
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Chloroform	5000	ug/m3	U	5000
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	cis-1,2-Dichloroethene	**15000**	ug/m3		4100
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Methyl-t-Butyl Ether (MTBE)	3700	ug/m3	U	3700
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Tetrachloroethene	**270000**	ug/m3		7000
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Toluene	3900	ug/m3	U	3900
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	trans-1,2-Dichloroethene	4100	ug/m3	U	4100
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Trichloroethene	**11000**	ug/m3		5500
SVE-02	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	258	Vinyl chloride	2600	ug/m3	U	2600
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Carbon Dioxide (FID)	**0.86**	% v/v		0.024
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Carbon monoxide	**0.00089**	% v/v	J	0.0021
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Ethane	0.0012	% v/v	U	0.0012
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Ethene	0.0012	% v/v	U	0.0012
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Methane (FID)	**0.00088**	% v/v	J	0.00094
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Nitrogen	**76**	% v/v		4.2
SVE-03	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.35	Oxygen	**21**	% v/v		0.47
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	1,1-Dichloroethene	230	ug/m3	U	230
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Benzene	190	ug/m3	U	190
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Chloroform	290	ug/m3	U	290
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	cis-1,2-Dichloroethene	**790**	ug/m3		230
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Methyl-t-Butyl Ether (MTBE)	210	ug/m3	U	210
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Tetrachloroethene	**20000**	ug/m3		400
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Toluene	220	ug/m3	U	220
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	trans-1,2-Dichloroethene	230	ug/m3	U	230
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Trichloroethene	**620**	ug/m3		320
SVE-03	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	14.7	Vinyl chloride	150	ug/m3	U	150
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Carbon Dioxide (FID)	**0.35**	% v/v		0.022
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Carbon monoxide	**0.00082**	% v/v	J	0.002
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Ethane	0.0011	% v/v	U	0.0011
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Ethene	**0.00064**	% v/v	UJ B	0.0011
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Methane (FID)	**0.0012**	% v/v		0.00089
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Nitrogen	**76**	% v/v		4
SVE-04	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.23	Oxygen	**22**	% v/v		0.45
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	1,1-Dichloroethene	59	ug/m3	U	59
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Benzene	48	ug/m3	U	48
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Chloroform	73	ug/m3	U	73
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	cis-1,2-Dichloroethene	**120**	ug/m3		59

Table 1-2 Air Data Analyses Summary, January 2013

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Methyl-t-Butyl Ether (MTBE)	54	ug/m3	U	54
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Tetrachloroethene	**4700**	ug/m3		100
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Toluene	**16**	ug/m3	J	56
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	trans-1,2-Dichloroethene	59	ug/m3	U	59
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Trichloroethene	**140**	ug/m3		80
SVE-04	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	3.72	Vinyl chloride	38	ug/m3	U	38
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Carbon Dioxide (TCD)	**4.1**	% v/v		0.021
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Carbon monoxide	0.0019	% v/v	U	0.0019
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Ethane	0.001	% v/v	U	0.001
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Ethene	0.001	% v/v	U	0.001
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Methane (FID)	**0.00047**	% v/v	J	0.00083
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Nitrogen	**75**	% v/v		3.7
SVE-05	1/23/2013	Air	D1946 Fixed Gases in Air (GC)	2.08	Oxygen	**18**	% v/v		0.42
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	1,1-Dichloroethene	660	ug/m3	U	660
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Benzene	530	ug/m3	U	530
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Chloroform	810	ug/m3	U	810
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	cis-1,2-Dichloroethene	**3400**	ug/m3		660
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Methyl-t-Butyl Ether (MTBE)	600	ug/m3	U	600
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Tetrachloroethene	**56000**	ug/m3		1100
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Toluene	630	ug/m3	U	630
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	trans-1,2-Dichloroethene	660	ug/m3	U	660
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Trichloroethene	**2200**	ug/m3		890
SVE-05	1/23/2013	Air	TO15_MOD Volatile Organic Compounds in Ambient Air	41.6	Vinyl chloride	430	ug/m3	U	430

NOTE:
Bolded results indicate analyte detection.
% v/v = volume concentration
ug/m3 = micrograms per cubic meter
B - Blank related. The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion, and/or analysis blank. Presence in the sample is therefore suspect.
J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
U = Compound was not detected above the reporting limit.

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW - 3	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.19**	mg/L		0.100
IW - 3	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	**0.0470**	mg/L	J	0.100
IW - 3	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.7**	mg/L		0.500
IW - 3	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
IW - 3	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
IW - 3	7/17/2012	Water	Dissolved Gases - RSK-175	1	Methane	**1.86**	µg/L		0.500
IW - 3	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.708**	mg/L		0.500
IW - 3	7/17/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.63**	mg/L		0.500
MW - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**0.411**	mg/L		0.100
MW - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
MW - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**1.77**	mg/L		0.500
MW - 1	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**0.580**	µg/L	J	1.00
MW - 1	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**0.317**	µg/L	J	1.00
MW - 1	7/17/2012	Water	Dissolved Gases - RSK-175	20	Methane	**485**	µg/L		10.0
MW - 1	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**37.5**	mg/L		0.500
MW - 1	7/17/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**40.4**	mg/L		0.500
OB - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**15.2**	mg/L		0.100
OB - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
OB - 1	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**4.44**	mg/L		0.500
OB - 1	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**8.86**	µg/L		1.00
OB - 1	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
OB - 1	7/17/2012	Water	Dissolved Gases - RSK-175	2	Methane	**44.8**	µg/L		1.00
OB - 1	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	100	Organic Carbon, Dissolved	**1,660**	mg/L		50.0
OB - 1	7/17/2012	Water	Total Organic Carbon - SM5310C	100	Organic Carbon, Total	**1,670**	mg/L		50.0
OB - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.91**	mg/L		0.100
OB - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
OB - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**0.270**	mg/L	J	0.500
OB - 2	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**1.81**	µg/L		1.00
OB - 2	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**2.36**	µg/L		1.00
OB - 2	7/17/2012	Water	Dissolved Gases - RSK-175	20	Methane	**350**	µg/L		10.0
OB - 2	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	10	Organic Carbon, Dissolved	**230**	mg/L		5.00
OB - 2	7/17/2012	Water	Total Organic Carbon - SM5310C	10	Organic Carbon, Total	**233**	mg/L		5.00
SVE - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.67**	mg/L		0.100
SVE - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
SVE - 2	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.7**	mg/L		0.500
SVE - 2	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
SVE - 2	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
SVE - 2	7/17/2012	Water	Dissolved Gases - RSK-175	1	Methane	**0.487**	µg/L	J	0.500
SVE - 2	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.852**	mg/L		0.500
SVE - 2	7/17/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.461**	mg/L	J	0.500
SVE - 2 D	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.68**	mg/L		0.100
SVE - 2 D	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
SVE - 2 D	7/17/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.5**	mg/L		0.500
SVE - 2 D	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
SVE - 2 D	7/17/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
SVE - 2 D	7/17/2012	Water	Dissolved Gases - RSK-175	1	Methane	0.500	µg/L	U	0.500
SVE - 2 D	7/17/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.760**	mg/L		0.500
SVE - 2 D	7/17/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.519**	mg/L		0.500
IW - 03	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	0.100	mg/L	U	0.100
IW - 03	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
IW - 03	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**11.7**	mg/L		0.500

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW - 03	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
IW - 03	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
IW - 03	6/5/2012	Water	Dissolved Gases - RSK-175	1	Methane	0.500	µg/L	U	0.500
IW - 03	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.694**	mg/L		0.500
IW - 03	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.236**	mg/L	J	0.500
IW-03	6/5/2012	Water	Metals ICP CLP	1	Aluminum	100	µg/L	U	100
IW-03	6/5/2012	Water	Metals ICP CLP	1	Barium	**560**	µg/L		10
IW-03	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
IW-03	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
IW-03	6/5/2012	Water	Metals ICP CLP	1	Calcium	**127000**	µg/L	J	150
IW-03	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
IW-03	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP	1	Iron	25	µg/L	U	25
IW-03	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**11600**	µg/L		150
IW-03	6/5/2012	Water	Metals ICP CLP	1	Manganese	5	µg/L	U	5
IW-03	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
IW-03	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
IW-03	6/5/2012	Water	Metals ICP CLP	1	Sodium	**58600**	µg/L		500
IW-03	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**563**	µg/L		10
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	**20.4**	µg/L	J	5
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**127000**	µg/L	J	150
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**11600**	µg/L		150
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	5	µg/L	U	5
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**58700**	µg/L		500
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
IW-03	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
IW-03	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
IW-03	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
IW-03	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**36.4**	µg/L		2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	50	Tetrachloroethene	**365**	µg/L		100
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**19.8**	µg/L		2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
IW-03	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**686**	µg/L		20
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**141000**	µg/L		300
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	40	µg/L	U	40

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	**148**	µg/L		50
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**13300**	µg/L		300
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	**11.1**	µg/L		10
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	40	µg/L	U	40
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**81000**	µg/L		1000
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
IW-03	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
IW-03	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**31.7**	µg/L		2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	2	Tetrachloroethene	**232**	µg/L		4
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**11.8**	µg/L		2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
IW-03	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
IW-03	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.41**	mg/L		0.1
IW-03	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
IW-03	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.9**	mg/L		0.5
IW-03	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.6	µg/L	U	1.6
IW-03	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.4	µg/L	U	1.4
IW-03	9/25/2012	Water	Dissolved Gases - RSK-175	1	Methane	**195**	µg/L		4
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**0.92**	µg/L	LJ	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**639**	µg/L		10.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**134000**	µg/L	J	5000
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**6.9**	µg/L	J	2.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**0.43**	µg/L	LJ	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Copper	**0.46**	µg/L	LJ	2.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**25.1**	µg/L	LJ	100
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**12300**	µg/L	J	5000
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**8.7**	µg/L	LJ	15.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**11.5**	µg/L		1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	**1.6**	µg/L	LJ	5.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**62500**	µg/L	J	5000
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	**3.5**	µg/L	LJ	5.0
IW-03	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**2.8**	µg/L		2.0
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**32**	µg/L		5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**210**	µg/L		25
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**12**	µg/L		5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
IW-03	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
IW-03	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.12**	mg/L		0.5
IW-03	9/25/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.15**	mg/L		0.5
IW-03	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.24**	mg/L		0.1
IW-03	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
IW-03	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**12.8**	mg/L		0.5
IW-03	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1	µg/L	U	1
IW-03	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1	µg/L	U	1
IW-03	12/18/2012	Water	Dissolved Gases - RSK-175	10	Methane	**124**	µg/L		5
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**530**	µg/L		10.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**127000**	µg/L		5000
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**2.4**	µg/L		2.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Copper	2.0	µg/L	U	2.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Iron	100	µg/L	U	100
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**11200**	µg/L		5000
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	15.0	µg/L	U	15.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**5.7**	µg/L		1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	**2.1**	µg/L	LJ	5.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**58800**	µg/L		5000
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**0.86**	µg/L	LJ	5.0
IW-03	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**5.1**	µg/L		2.0
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	U	100
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**25**	µg/L		5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**130**	µg/L		5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**7.5**	µg/L		5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
IW-03	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
IW-03	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.736**	mg/L		0.5
IW-03	12/18/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.406**	mg/L	J	0.5
MW - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.48**	mg/L		0.100
MW - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
MW - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**14.5**	mg/L		0.500
MW - 01	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**0.800**	µg/L	J	1.00
MW - 01	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**0.823**	µg/L	J	1.00
MW - 01	6/5/2012	Water	Dissolved Gases - RSK-175	1	Methane	**12.2**	µg/L		0.500
MW - 01	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.40**	mg/L		0.500
MW - 01	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.16**	mg/L		0.500
MW-01	6/5/2012	Water	Metals ICP CLP	1	Aluminum	**115**	µg/L		100
MW-01	6/5/2012	Water	Metals ICP CLP	1	Barium	**894**	µg/L		10
MW-01	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
MW-01	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
MW-01	6/5/2012	Water	Metals ICP CLP	1	Calcium	**129000**	µg/L		150
MW-01	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
MW-01	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP	1	Iron	**73**	µg/L		25
MW-01	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**12400**	µg/L		150
MW-01	6/5/2012	Water	Metals ICP CLP	1	Manganese	**17.6**	µg/L		5
MW-01	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
MW-01	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
MW-01	6/5/2012	Water	Metals ICP CLP	1	Sodium	**54700**	µg/L		500
MW-01	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**874**	µg/L		10
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	**6.4**	µg/L		5
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**126000**	µg/L		150
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**12100**	µg/L		150
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	**14.2**	µg/L		5
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**53700**	µg/L		500
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
MW-01	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
MW-01	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
MW-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
MW-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,1-Trichloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2,2-Tetrachloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloro-1,2,2-trifluoroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2,4-Trichlorobenzene	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromo-3-chloropropane	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromoethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichlorobenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloropropane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,3-Dichlorobenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,4-Dichlorobenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	2-Hexanone	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	4-Methyl-2-pentanone	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Acetone	20	µg/L	U	20
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Benzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromodichloromethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromoform	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromomethane	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon disulfide	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon tetrachloride	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chlorobenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroform	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloromethane	10	µg/L	U	10

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	cis-1,2-Dichloroethene	**1260**	µg/L		20
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	cis-1,3-Dichloropropene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Cyclohexane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Dichlorodifluoromethane	10	µg/L	U	10
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Ethylbenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Isopropylbenzene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	meta-/para-Xylene	8	µg/L	U	8
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl acetate	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl tert-butyl ether	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylcyclohexane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylene chloride	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	ortho-Xylene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Styrene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	100	Tetrachloroethene	**17100**	µg/L		200
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Toluene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,2-Dichloroethene	**7.6**	µg/L		4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,3-Dichloropropene	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	Trichloroethene	**980**	µg/L		20
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Trichlorofluoromethane	4	µg/L	U	4
MW-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Vinyl chloride	**117**	µg/L		4
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**856**	µg/L		20
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**140000**	µg/L		300
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	40	µg/L	U	40
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	**5860**	µg/L		50
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**15600**	µg/L		300
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	**445**	µg/L		10
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	40	µg/L	U	40
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**65200**	µg/L		1000
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
MW-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	**57.9**	µg/L		2
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
MW-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	**10.6**	µg/L		2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	100	cis-1,2-Dichloroethene	**6050**	µg/L		200
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	**4.1**	µg/L		2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	10	Tetrachloroethene	**944**	µg/L	J	20
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	**21.1**	µg/L		2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**101**	µg/L		2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
MW-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	**84.2**	µg/L		2
MW-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**0.068**	mg/L	J	0.1
MW-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
MW-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**0.769**	mg/L		0.5
MW-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethane	32	µg/L	U	32
MW-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethene	28	µg/L	U	28
MW-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Methane	**18,700**	µg/L		80
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**148**	µg/L	J	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**1280**	µg/L		10.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**150000**	µg/L	J	5000

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**7.5**	µg/L	J	2.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**1.6**	µg/L		1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Copper	**0.19**	µg/L	LJ	2.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**12600**	µg/L		100
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**16000**	µg/L	J	5000
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**860**	µg/L		15.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**4.3**	µg/L		1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	**8.3**	µg/L	J	5.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**50500**	µg/L	J	5000
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	5.0	µg/L	U	5.0
MW-01	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**2.1**	µg/L		2.0
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**16000**	µg/L		500
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**53**	µg/L		5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**16**	µg/L	J^	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**13**	µg/L		5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
MW-01	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl Chloride	**190**	µg/L		5
MW-01	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**27.1**	mg/L		0.5
MW-01	9/25/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**31.5**	mg/L		0.5
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	**2320**	µg/L		200
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	**51.8**	µg/L		1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**748**	µg/L		10.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**168000**	µg/L		5000
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**6.6**	µg/L		2.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	**2.6**	µg/L		1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Copper	**30.8**	µg/L		2.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Iron	**12300**	µg/L		100
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Lead	**3.7**	µg/L		1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**15500**	µg/L		5000
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	**794**	µg/L		15.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**13.7**	µg/L		1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	5.0	µg/L	U	5.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**56300**	µg/L		5000
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**5.4**	µg/L		5.0
MW-01	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**93.1**	µg/L		2.0
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	**6.3**	µg/L		5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	**3.3**	µg/L	LJ	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**7800**	µg/L		500
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**75**	µg/L		5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	**1.2**	µg/L	LJ	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**8.9**	µg/L		5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**17**	µg/L		5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
MW-01	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	**93**	µg/L		5
MW-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**0.19**	mg/L		0.1
MW-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
MW-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**3.1**	mg/L		0.5
MW-1	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**1.08**	µg/L		1
MW-1	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**12.5**	µg/L		1
MW-1	12/18/2012	Water	Dissolved Gases - RSK-175	200	Methane	**3,350**	µg/L		100
MW-1	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	2	Organic Carbon, Dissolved	**8.48**	mg/L	H	1
MW-1	12/18/2012	Water	Total Organic Carbon - SM5310C	2	Organic Carbon, Total	**8.18**	mg/L	H	1
OB - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.16**	mg/L		0.100
OB - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	**0.0690**	mg/L	J	0.100

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB - 01	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**18.4**	mg/L		0.500
OB - 01	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**1.60**	µg/L		1.00
OB - 01	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**0.653**	µg/L	J	1.00
OB - 01	6/5/2012	Water	Dissolved Gases - RSK-175	2	Methane	**58.7**	µg/L		1.00
OB - 01	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**3.27**	mg/L		0.500
OB - 01	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**2.92**	mg/L		0.500
OB - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.41**	mg/L		0.100
OB - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	**0.0400**	mg/L	J	0.100
OB - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**14.9**	mg/L		0.500
OB - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**2.31**	µg/L		1.00
OB - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**1.83**	µg/L		1.00
OB - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Methane	**28.3**	µg/L		0.500
OB - 02	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.79**	mg/L		0.500
OB - 02	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.32**	mg/L		0.500
OB-01	6/5/2012	Water	Metals ICP CLP	1	Aluminum	**159**	µg/L		100
OB-01	6/5/2012	Water	Metals ICP CLP	1	Barium	**828**	µg/L		10
OB-01	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
OB-01	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
OB-01	6/5/2012	Water	Metals ICP CLP	1	Calcium	**126000**	µg/L		150
OB-01	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
OB-01	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP	1	Iron	**94**	µg/L		25
OB-01	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**12200**	µg/L		150
OB-01	6/5/2012	Water	Metals ICP CLP	1	Manganese	**47**	µg/L		5
OB-01	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
OB-01	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
OB-01	6/5/2012	Water	Metals ICP CLP	1	Sodium	**65600**	µg/L		500
OB-01	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**847**	µg/L		10
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	5	µg/L	U	5
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**127000**	µg/L		150
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**12200**	µg/L		150
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	**40.2**	µg/L		5
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**64700**	µg/L		500
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
OB-01	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
OB-01	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
OB-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
OB-01	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,1-Trichloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2,2-Tetrachloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloro-1,2,2-trifluoroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2,4-Trichlorobenzene	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromo-3-chloropropane	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromoethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichlorobenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloropropane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,3-Dichlorobenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,4-Dichlorobenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	2-Hexanone	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	4-Methyl-2-pentanone	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Acetone	20	µg/L	U	20
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Benzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromodichloromethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromoform	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromomethane	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon disulfide	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon tetrachloride	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chlorobenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroform	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloromethane	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	cis-1,2-Dichloroethene	**1070**	µg/L		20
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	cis-1,3-Dichloropropene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Cyclohexane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Dichlorodifluoromethane	10	µg/L	U	10
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Ethylbenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Isopropylbenzene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	meta-/para-Xylene	8	µg/L	U	8
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl acetate	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl tert-butyl ether	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylcyclohexane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylene chloride	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	ortho-Xylene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Styrene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	100	Tetrachloroethene	**7050**	µg/L		200
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Toluene	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,2-Dichloroethene	**6.2**	µg/L		4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,3-Dichloropropene	4	µg/L	U	4

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	Trichloroethene	**475**	µg/L		20
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Trichlorofluoromethane	4	µg/L	U	4
OB-01	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Vinyl chloride	**171**	µg/L	J	4
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**5090**	µg/L		20
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**760000**	µg/L		300
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	**63.3**	µg/L		40
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	**3380**	µg/L		50
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**76100**	µg/L		300
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	**2350**	µg/L		10
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	**58.3**	µg/L		40
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**224000**	µg/L		1000
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
OB-01	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	**89.2**	µg/L		2
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
OB-01	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	**5.3**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	**69**	µg/L	J	10
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	**4.6**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	100	cis-1,2-Dichloroethene	**2920**	µg/L		200
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	**13**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	**2.2**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	10	Tetrachloroethene	**1120**	µg/L	J	20
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	**16.3**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**159**	µg/L		2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
OB-01	7/17/2012	Water	OLM04.2 VOA CLP Routine List	10	Vinyl chloride	**172**	µg/L		20
OB-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**6.85**	mg/L		0.1
OB-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
OB-01	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	0.5	mg/L	U	0.5
OB-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethane	32	µg/L	U	32
OB-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethene	28	µg/L	U	28
OB-01	9/25/2012	Water	Dissolved Gases - RSK-175	20	Methane	**19,200**	µg/L		80
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	**124**	µg/L	LJ	200
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**224**	µg/L	J	2.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**2060**	µg/L		10.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	2.0	µg/L	U	2.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**410000**	µg/L	J	5000
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**1.3**	µg/L	LJ	4.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**43.3**	µg/L		2.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Copper	4.0	µg/L	U	4.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**11700**	µg/L		100
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**52000**	µg/L	J	5000
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**2390**	µg/L		15.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**39.0**	µg/L		2.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	10.0	µg/L	U	10.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**116000**	µg/L	J	5000
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	**3.0**	µg/L	LJ	10.0
OB-01	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**5.7**	µg/L		4.0
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	**510**	µg/L		500
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	**83**	µg/L	J	10
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**2500**	µg/L		250
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	**2.4**	µg/L	LJ	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**45**	µg/L		5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**2.3**	µg/L	LJ	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**4.7**	µg/L	LJ	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
OB-01	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl Chloride	**30**	µg/L		5
OB-01	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	20	Organic Carbon, Dissolved	**484**	mg/L		10

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	9/25/2012	Water	Total Organic Carbon - SM5310C	20	Organic Carbon, Total	**503**	mg/L		10
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	**262**	µg/L		200
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	**301**	µg/L		1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**927**	µg/L		10.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**215000**	µg/L		5000
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**7.0**	µg/L		2.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	**8.3**	µg/L		1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Copper	**3.3**	µg/L		2.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Iron	**13000**	µg/L		100
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**29700**	µg/L		5000
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	**1380**	µg/L		15.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**25.0**	µg/L		1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	5.0	µg/L	U	5.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**83000**	µg/L		5000
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**1.2**	µg/L	LJ	5.0
OB-01	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**66.5**	µg/L		2.0
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	**1.2**	µg/L	LJ	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	U	100
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	**3.7**	µg/L	LJ	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	**1.1**	µg/L	LJ	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**1500**	µg/L		50
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**16**	µg/L		5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	**2.5**	µg/L	LJ	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**1.1**	µg/L	LJ	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**11**	µg/L		5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
OB-01	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	**17**	µg/L		5
OB-02	6/5/2012	Water	Metals ICP CLP	1	Aluminum	**102**	µg/L		100
OB-02	6/5/2012	Water	Metals ICP CLP	1	Barium	**897**	µg/L		10
OB-02	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
OB-02	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
OB-02	6/5/2012	Water	Metals ICP CLP	1	Calcium	**124000**	µg/L		150
OB-02	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
OB-02	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP	1	Iron	**79.4**	µg/L		25
OB-02	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**12200**	µg/L		150
OB-02	6/5/2012	Water	Metals ICP CLP	1	Manganese	**22.1**	µg/L		5
OB-02	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
OB-02	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
OB-02	6/5/2012	Water	Metals ICP CLP	1	Sodium	**51700**	µg/L		500
OB-02	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**910**	µg/L		10
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	5	µg/L	U	5
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**126000**	µg/L		150
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**12400**	µg/L		150

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	**22.2**	µg/L		5
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**52800**	µg/L		500
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
OB-02	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
OB-02	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
OB-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
OB-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,1-Trichloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2,2-Tetrachloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloro-1,2,2-trifluoroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1,2-Trichloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,1-Dichloroethene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2,4-Trichlorobenzene	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromo-3-chloropropane	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dibromoethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichlorobenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,2-Dichloropropane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,3-Dichlorobenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	1,4-Dichlorobenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	2-Hexanone	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	4-Methyl-2-pentanone	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Acetone	20	µg/L	U	20
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Benzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromodichloromethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromoform	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Bromomethane	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon disulfide	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Carbon tetrachloride	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chlorobenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloroform	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Chloromethane	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	cis-1,2-Dichloroethene	**1420**	µg/L		20
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	cis-1,3-Dichloropropene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Cyclohexane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Dichlorodifluoromethane	10	µg/L	U	10
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Ethylbenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Isopropylbenzene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	meta-/para-Xylene	8	µg/L	U	8

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl acetate	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methyl tert-butyl ether	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylcyclohexane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Methylene chloride	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	ortho-Xylene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Styrene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	100	Tetrachloroethene	**17100**	µg/L		200
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Toluene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,2-Dichloroethene	**8.1**	µg/L		4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	trans-1,3-Dichloropropene	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	Trichloroethene	**1050**	µg/L		20
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Trichlorofluoromethane	4	µg/L	U	4
OB-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Vinyl chloride	**154**	µg/L		4
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**1410**	µg/L		20
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**234000**	µg/L		300
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	40	µg/L	U	40
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	**10200**	µg/L		50
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**33100**	µg/L		300
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	**1250**	µg/L		10
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	40	µg/L	U	40
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**83700**	µg/L		1000
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
OB-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	**122**	µg/L		2
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
OB-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	**22.9**	µg/L		2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	100	cis-1,2-Dichloroethene	**15000**	µg/L		200
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Tetrachloroethene	**82.8**	µg/L		2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	**32.1**	µg/L		2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**19.3**	µg/L		2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
OB-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	2	Vinyl chloride	**286**	µg/L	J	4
OB-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	0.1	mg/L	U	0.1
OB-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
OB-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**0.67**	mg/L		0.5
OB-02	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethane	32	µg/L	U	32
OB-02	9/25/2012	Water	Dissolved Gases - RSK-175	20	Ethene	28	µg/L	U	28
OB-02	9/25/2012	Water	Dissolved Gases - RSK-175	20	Methane	**17,300**	µg/L		80
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	**105**	µg/L	LJ	200
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**88.0**	µg/L	J	1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**899**	µg/L		10.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	**0.11**	µg/L	LJ	1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**152000**	µg/L	J	5000
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**8.1**	µg/L	J	2.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**1.9**	µg/L		1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Copper	**2.8**	µg/L		2.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**9670**	µg/L		100
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Lead	**2.0**	µg/L		1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**15400**	µg/L	J	5000
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**932**	µg/L		15.0

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**5.5**	µg/L		1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	**10.6**	µg/L	J	5.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**53800**	µg/L	J	5000
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	5.0	µg/L	U	5.0
OB-02	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**64.5**	µg/L		2.0
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**6400**	µg/L		250
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**3.2**	µg/L	LJ	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**5.5**	µg/L		5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
OB-02	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl Chloride	**43**	µg/L		5
OB-02	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**18.3**	mg/L		0.5
OB-02	9/25/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**28.4**	mg/L		0.5
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	**25.5**	µg/L		1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**915**	µg/L		10.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**152000**	µg/L		5000
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**7.3**	µg/L		2.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Copper	2.0	µg/L	U	2.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Iron	**6840**	µg/L		100
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**13900**	µg/L		5000
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	**487**	µg/L		15.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**9.2**	µg/L		1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	5.0	µg/L	U	5.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**61500**	µg/L		5000
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**0.19**	µg/L	LJ	5.0
OB-02	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**5.2**	µg/L		2.0
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	UJv	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	UJv	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	**2.5**	µg/L	LJ	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	UJv	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	U	100
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**3200**	µg/L		250
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	UJv	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**5.7**	µg/L		5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	**2.1**	µg/L	LJ	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	UJv	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**2.5**	µg/L	LJ	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
OB-02	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	**27**	µg/L		5
OB-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	0.1	mg/L	U	0.1
OB-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
OB-1	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	0.5	mg/L	U	0.5
OB-1	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	**0.517**	µg/L	J	1
OB-1	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	**0.889**	µg/L	J	1
OB-1	12/18/2012	Water	Dissolved Gases - RSK-175	100	Methane	**2,140**	µg/L		50
OB-1	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**30.2**	mg/L		0.5
OB-1	12/18/2012	Water	Total Organic Carbon - SM5310C	20	Organic Carbon, Total	**27.2**	mg/L		10
OB-2	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	0.1	mg/L	U	0.1
OB-2	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
OB-2	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**0.988**	mg/L		0.5
OB-2	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1	µg/L	U	1
OB-2	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1	µg/L	U	1
OB-2	12/18/2012	Water	Dissolved Gases - RSK-175	200	Methane	**4,850**	µg/L		100
OB-2	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**8.94**	mg/L		0.5
OB-2	12/18/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**7.51**	mg/L		0.5
SVE - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.11**	mg/L		0.100

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.100	mg/L	U	0.100
SVE - 02	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.2**	mg/L		0.500
SVE - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
SVE - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
SVE - 02	6/5/2012	Water	Dissolved Gases - RSK-175	1	Methane	0.500	µg/L	U	0.500
SVE - 02	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.887**	mg/L		0.500
SVE - 02	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.361**	mg/L	J	0.500
SVE - 02 D	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**2.10**	mg/L		0.100
SVE - 02 D	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	**0.0570**	mg/L	J	0.100
SVE - 02 D	6/5/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.1**	mg/L		0.500
SVE - 02 D	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.00	µg/L	U	1.00
SVE - 02 D	6/5/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.00	µg/L	U	1.00
SVE - 02 D	6/5/2012	Water	Dissolved Gases - RSK-175	1	Methane	**0.348**	µg/L	J	0.500
SVE - 02 D	6/5/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**0.488**	mg/L	J	0.500
SVE - 02 D	6/5/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.354**	mg/L	J	0.500
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Aluminum	100	µg/L	U	100
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Barium	**584**	µg/L		10
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Calcium	**126000**	µg/L		150
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Iron	**206**	µg/L		25
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**11900**	µg/L		150
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Manganese	**22**	µg/L		5
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Sodium	**58400**	µg/L		500
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**566**	µg/L		10
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	5	µg/L	U	5
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**123000**	µg/L		150
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**11600**	µg/L		150
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	**10.6**	µg/L		5
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**57600**	µg/L		500
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
SVE-02	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
SVE-02	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
SVE-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
SVE-02	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**37.6**	µg/L		2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	10	Tetrachloroethene	**356**	µg/L		20
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**19.3**	µg/L	J	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
SVE-02	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**708**	µg/L		20
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**145000**	µg/L		300
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	40	µg/L	U	40
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	50	µg/L	U	50
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**14000**	µg/L		300
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	10	µg/L	U	10
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	40	µg/L	U	40
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**80100**	µg/L		1000
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
SVE-02	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
SVE-02	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**17.6**	µg/L		2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Tetrachloroethene	**106**	µg/L		2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**6.1**	µg/L		2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
SVE-02	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
SVE-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.65**	mg/L		0.1
SVE-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
SVE-02	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**12.2**	mg/L		0.5
SVE-02	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.6	µg/L	U	1.6
SVE-02	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.4	µg/L	U	1.4
SVE-02	9/25/2012	Water	Dissolved Gases - RSK-175	1	Methane	**1.99**	µg/L	J	4
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	**114**	µg/L	LJ	200
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**1.2**	µg/L	J	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**607**	µg/L		10.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**137000**	µg/L	J	5000
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**6.1**	µg/L	J	2.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**0.42**	µg/L	LJ	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Copper	**0.48**	µg/L	LJ	2.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**77.9**	µg/L	LJ	100
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**12500**	µg/L	J	5000
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**14.9**	µg/L	LJ	15.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**5.1**	µg/L		1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	5.0	µg/L	U	5.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**63300**	µg/L	J	5000
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	**3.8**	µg/L	LJ	5.0
SVE-02	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**1.4**	µg/L	LJ	2.0
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**17**	µg/L		5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**86**	µg/L	J	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**5.8**	µg/L		5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
SVE-02	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.06**	mg/L		0.5
SVE-02	9/25/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.1**	mg/L		0.5
SVE-02	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.79**	mg/L		0.1
SVE-02	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
SVE-02	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**13.9**	mg/L		0.5
SVE-02	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1	µg/L	U	1
SVE-02	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1	µg/L	U	1
SVE-02	12/18/2012	Water	Dissolved Gases - RSK-175	1	Methane	0.5	µg/L	U	0.5
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	**1.1**	µg/L		1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**600**	µg/L		10.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**140000**	µg/L		5000
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**1.9**	µg/L	LJ	2.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Copper	2.0	µg/L	U	2.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Iron	100	µg/L	U	100
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**12200**	µg/L		5000
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	15.0	µg/L	U	15.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**5.7**	µg/L		1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	**2.1**	µg/L	LJ	5.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**66900**	µg/L		5000
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**1.6**	µg/L	LJ	5.0
SVE-02	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**7.2**	µg/L		2.0
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	**1.4**	µg/L	LJ	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**13**	µg/L		5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**78**	µg/L		5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**4**	µg/L	LJ	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
SVE-02	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
SVE-02	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.2**	mg/L		0.5
SVE-02	12/18/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**1.14**	mg/L		0.5
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Aluminum	**216**	µg/L		100
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Barium	**587**	µg/L		10
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Beryllium	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Cadmium	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Calcium	**128000**	µg/L		150
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Chromium	10	µg/L	U	10
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Cobalt	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Copper	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Iron	**333**	µg/L		25
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Magnesium	**12000**	µg/L		150
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Manganese	**19.4**	µg/L		5
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Nickel	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Potassium	1000	µg/L	U	1000
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Silver	10	µg/L	U	10
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Sodium	**59400**	µg/L		500
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Vanadium	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP	1	Zinc	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Aluminum	100	µg/L	U	100

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Barium	**616**	µg/L		10
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Beryllium	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cadmium	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Calcium	**132000**	µg/L		150
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Chromium	10	µg/L	U	10
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Cobalt	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Copper	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Iron	25	µg/L	U	25
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Magnesium	**12600**	µg/L		150
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Manganese	**11.1**	µg/L		5
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Nickel	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Potassium	1000	µg/L	U	1000
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Silver	10	µg/L	U	10
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Sodium	**62400**	µg/L		500
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Vanadium	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP CLP (Dissolved)	1	Zinc	20	µg/L	U	20
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP	4	Antimony	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP	4	Arsenic	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP	4	Lead	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP	4	Selenium	4	µg/L	U	4
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP	4	Thallium	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	4	µg/L	U	4
SVE-02 D	6/5/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**35.5**	µg/L		2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	2	Tetrachloroethene	**296**	µg/L		4
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**16.7**	µg/L		2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
SVE-02 D	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Aluminum	200	µg/L	U	200
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Barium	**646**	µg/L		20
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Beryllium	10	µg/L	U	10
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Calcium	**132000**	µg/L		300
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Chromium	20	µg/L	U	20
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Cobalt	40	µg/L	U	40
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Copper	40	µg/L	U	40
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Iron	50	µg/L	U	50
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Magnesium	**12900**	µg/L		300
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Manganese	10	µg/L	U	10
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Nickel	40	µg/L	U	40
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Potassium	2000	µg/L	U	2000
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Silver	20	µg/L	U	20
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Sodium	**72900**	µg/L		1000
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Vanadium	40	µg/L	U	40
SVE-02 D	7/17/2012	Water	Metals ICP CLP (Dissolved)	2	Zinc	40	µg/L	U	40
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Antimony	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Arsenic	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Cadmium	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Lead	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Selenium	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	Metals ICP/MS CLP (Dissolved)	4	Thallium	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	**20.3**	µg/L		2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Tetrachloroethene	**121**	µg/L		2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	**6.7**	µg/L		2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
SVE-02 D	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Aluminum	**74.2**	µg/L	LJ	200
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Arsenic	**1.4**	µg/L	J	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Barium	**620**	µg/L		10.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Beryllium	**0.11**	µg/L	LJ	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Calcium	**135000**	µg/L	J	5000
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Chromium	**5.2**	µg/L	J	2.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Cobalt	**0.41**	µg/L	LJ	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Copper	**0.60**	µg/L	LJ	2.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Iron	**49.4**	µg/L	LJ	100

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Magnesium	**12400**	µg/L	J	5000
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Manganese	**12.8**	µg/L	LJ	15.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Nickel	**4.6**	µg/L		1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Selenium	**1.6**	µg/L	LJ	5.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Sodium	**62800**	µg/L	J	5000
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Vanadium	5.0	µg/L	U	5.0
SVE-02 D	09/25/2012	Water	ISM01.3 Metals CLP		Zinc	**1.2**	µg/L	LJ	2.0
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**21**	µg/L		5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**150**	µg/L	J	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**9.1**	µg/L		5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
SVE-02 D	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
SVE-02 D	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.85**	mg/L		0.1
SVE-02 D	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	**0.086**	mg/L	J	0.1
SVE-02 D	12/18/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**14.8**	mg/L		0.5
SVE-02 D	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1	µg/L	U	1
SVE-02 D	12/18/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1	µg/L	U	1
SVE-02 D	12/18/2012	Water	Dissolved Gases - RSK-175	1	Methane	0.5	µg/L	U	0.5
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Aluminum	200	µg/L	U	200
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Antimony	2.0	µg/L	U	2.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Arsenic	**1.0**	µg/L		1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Barium	**594**	µg/L		10.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Beryllium	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Cadmium	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Calcium	**144000**	µg/L		5000
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Chromium	**2.3**	µg/L		2.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Cobalt	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Copper	2.0	µg/L	U	2.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Iron	100	µg/L	U	100
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Lead	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Magnesium	**12400**	µg/L		5000
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Manganese	15.0	µg/L	U	15.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Nickel	**6.1**	µg/L		1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Potassium	5000	µg/L	U	5000
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Selenium	**2.0**	µg/L	LJ	5.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Silver	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Sodium	**68800**	µg/L		5000
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Thallium	1.0	µg/L	U	1.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Vanadium	**1.7**	µg/L	LJ	5.0
SVE-02 D	12/18/2012	Water	ISM01.3 Metals CLP		Zinc	**5.3**	µg/L		2.0
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UR	100
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	**1.3**	µg/L	LJ	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	**16**	µg/L	J	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	**82**	µg/L		5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	**4.3**	µg/L	LJ	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
SVE-02 D	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
SVE-02 D	12/18/2012	Water	Total Organic Carbon, Dissolved - SM5310C	2	Organic Carbon, Dissolved	**0.955**	mg/L	JH	1
SVE-02 D	12/18/2012	Water	Total Organic Carbon - SM5310C	2	Organic Carbon, Total	**0.959**	mg/L	JH	1
SVE-02D	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrate (As N)	**1.58**	mg/L		0.1
SVE-02D	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Nitrogen, Nitrite (As N)	0.1	mg/L	U	0.1
SVE-02D	9/25/2012	Water	Anions - EPA 300.0 (1993)	1	Sulfate	**11.8**	mg/L		0.5
SVE-02D	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethane	1.6	µg/L	U	1.6
SVE-02D	9/25/2012	Water	Dissolved Gases - RSK-175	1	Ethene	1.4	µg/L	U	1.4
SVE-02D	9/25/2012	Water	Dissolved Gases - RSK-175	1	Methane	4	µg/L	U	4
SVE-02D	9/25/2012	Water	Total Organic Carbon, Dissolved - SM5310C	1	Organic Carbon, Dissolved	**1.1**	mg/L		0.5
SVE-02D	9/25/2012	Water	Total Organic Carbon - SM5310C	1	Organic Carbon, Total	**0.977**	mg/L		0.5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Tetrachloroethene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
Trip Blank 1	6/5/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,1-Trichloroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2,2-Tetrachloroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloro-1,2,2-trifluoroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1,2-Trichloroethane	2	µg/L	U	2

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,1-Dichloroethene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2,4-Trichlorobenzene	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromo-3-chloropropane	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dibromoethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,2-Dichloropropane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,3-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	1,4-Dichlorobenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	2-Hexanone	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	4-Methyl-2-pentanone	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Acetone	10	µg/L	U	10
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Benzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromodichloromethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromoform	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Bromomethane	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon disulfide	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Carbon tetrachloride	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chlorobenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloroform	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Chloromethane	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,2-Dichloroethene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	cis-1,3-Dichloropropene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Cyclohexane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Dichlorodifluoromethane	5	µg/L	U	5
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Ethylbenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Isopropylbenzene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	meta-/para-Xylene	4	µg/L	U	4
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl acetate	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methyl tert-butyl ether	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylcyclohexane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Methylene chloride	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	ortho-Xylene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Styrene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Tetrachloroethene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Toluene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,2-Dichloroethene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	trans-1,3-Dichloropropene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichloroethene	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Trichlorofluoromethane	2	µg/L	U	2
Trip Blank 1	7/17/2012	Water	OLM04.2 VOA CLP Routine List	1	Vinyl chloride	2	µg/L	U	2
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	UJv	100
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	UJ	10
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Carbon disulfide	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Carbon Tetrachloride	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Methyl tert-Butyl ether	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Trichloroethene	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
Trip Blank 1	9/25/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1,1-Trichloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2,2-Tetrachloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1,2-Trichloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,1-Dichloroethene	5	µg/L	U	5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2,3-Trichlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2,4-Trichlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromo-3-chloropropane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dibromoethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,2-Dichloropropane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,3-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dichlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		1,4-Dioxane	100	µg/L	U	100
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		2-Butanone	10	µg/L	U	10
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		2-Hexanone	10	µg/L	U	10
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		4-Methyl-2-pentanone	10	µg/L	U	10
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Acetone	10	µg/L	U	10
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Benzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Bromochloromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Bromodichloromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Bromoform	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Bromomethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Carbon Disulfide	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Carbon tetrachloride	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Chlorobenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Chloroethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Chloroform	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Chloromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,2-Dichloroethene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		cis-1,3-Dichloropropene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Cyclohexane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Dibromochloromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Dichlorodifluoromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Ethylbenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Isopropylbenzene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		m,p-Xylene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Methyl acetate	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Methyl tert-butyl ether	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Methylcyclohexane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Methylene chloride	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		o-Xylene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Styrene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Tetrachloroethene	0.5	µg/L	U	0.5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Toluene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,2-Dichloroethene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		trans-1,3-Dichloropropene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Trichloroethene	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Trichlorofluoromethane	5	µg/L	U	5
Trip Blank 1	12/18/2012	Water	SOM01.2 VOA CLP		Vinyl chloride	0.5	µg/L	U	0.5

Table 1-3 Water Data Analyses Summary, Injection Pilot Test Data (Baseline, 1 Month, 3 Months, 6 Months)

Sample ID	Sample Date	Matrix	Analysis Method	Dilution	Analyte	Result	Units	Qualifiers	Reporting Limit

NOTE:
Bolded results indicate analyte detection.
H = Analyzed outside of the holding time.
J = The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
J^ = Estimated value. High Biased. Acutal concentration may be lower than the concentration reported.
LJ = Estimated value. Reported concentration is below the CRQL.
U = Not detected at the reported quantitation limit.
UJ =The analyte was analyzed for, but was not detected above the adjusted method detection limit or was detected in a blank sample at a similar concentration. The reported adjusted quantitation limit is approximate and may be inaccurate or imprecise.
UJv = Estimated quantitation limit. Low biased. Actual concentration may be higher than the concentration reported.
UR = Not detected at reported quantitation limit. Unusable.

Attachment 2

Laboratory Analytical Reports and Case Narratives

(On Report CD)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------Jones Road Groundwater Plume

Sample Collection Date(s)-- 06/05/12

Contact---------- Gary Baumgarten (6SF-RA)

Report Date---------- 07/16/12

Project #---------- 12SF115

Work Order(s)---------- 1206008

Analyses included in this report:

Metals ICP CLP	Metals ICP CLP (Dissolved)
Metals ICP/MS CLP	Metals ICP/MS CLP (Dissolved)
VOA CLP Routine List	

Report Narrative

Volatiles:

Vinyl chloride in sample 1206008-03 and Trichloroethene is sample 1206008-05 are qualified as estimated due to inconsistent concentrations between vials used for analysis.

Two analytes fail low in the BSs and one RPD fails in the MS/MSD. None were found in the samples.

ICP Metals:

Batch: B2F1905: Totals: MS1/MSD1: Calcium spike recovery is outside the acceptance limits; the corresponding result is qualified as estimated.

Batch: B2F1905: Dissolved: MS1/MSD1: Calcium and cadmium spike recoveries are outside the acceptance limits; the corresponding results are qualified as estimated.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Jones Road Groundwater Plume Project Number: 12SF115

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____
Signature Date

Please provide a reason for holding:

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
IW-03	1206008-01	Liquid	6/5/12 8:45	06/06/12 13:00
MW-01	1206008-02	Liquid	6/5/12 17:11	06/06/12 13:00
OB-01	1206008-03	Liquid	6/5/12 14:24	06/06/12 13:00
OB-02	1206008-04	Liquid	6/5/12 15:53	06/06/12 13:00
SVE-02	1206008-05	Liquid	6/5/12 11:48	06/06/12 13:00
SVE-02 D	1206008-06	Liquid	6/5/12 11:48	06/06/12 13:00
Trip Blank 1	1206008-07	Liquid	6/5/12 7:00	06/06/12 13:00

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	50.2		100	81-124	06/11/12	06/11/12
Surr: Toluene-d8	49.1		98.2	86-115	"	"
Surr: 4-Bromofluorobenzene	47.5		94.9	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	06/11/12	06/11/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**36.4**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**19.8**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	06/11/12	06/11/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**365**		100	50	"	06/11/12
2-Hexanone (591-78-6)	U		5.0	1	"	06/11/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**560**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**127,000**	**J**	150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**11,600**		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**58,600**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**563**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	**20.4**	**J**	5.0	"	"	"
Calcium (7440-70-2)	**127,000**	**J**	150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**11,600**		150	"	"	"
Manganese (7439-96-5)	U		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**58,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-01 **Station ID: IW-03**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	46.2		92.4	81-124	06/11/12	06/12/12
Surr: Toluene-d8	47.6		95.1	86-115	"	"
Surr: 4-Bromofluorobenzene	47.6		95.3	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		10.0	2	06/11/12	06/12/12
Chloromethane (74-87-3)	U		10.0	"	"	"
Vinyl chloride (75-01-4)	**117**		4.0	"	"	"
Bromomethane (74-83-9)	U		10.0	"	"	"
Chloroethane (75-00-3)	U		4.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.0	"	"	"
Carbon disulfide (75-15-0)	U		4.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.0	"	"	"
Acetone (67-64-1)	U		20.0	"	"	"
Methylene chloride (75-09-2)	U		4.0	"	"	"
Methyl acetate (79-20-9)	U		4.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**7.6**		4.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**1,260**		20.0	10	"	06/11/12
Methyl tert-butyl ether (1634-04-4)	U		4.0	2	"	06/12/12
1,1-Dichloroethane (75-34-3)	U		4.0	"	"	"
2-Butanone (78-93-3)	U		10.0	"	"	"
Chloroform (67-66-3)	U		4.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.0	"	"	"
Cyclohexane (110-82-7)	U		4.0	"	"	"
Carbon tetrachloride (56-23-5)	U		4.0	"	"	"
Benzene (71-43-2)	U		4.0	"	"	"
Trichloroethene (79-01-6)	**980**		20.0	10	"	06/11/12
Methylcyclohexane (108-87-2)	U		4.0	2	"	06/12/12
1,2-Dichloropropane (78-87-5)	U		4.0	"	"	"
Bromodichloromethane (75-27-4)	U		4.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.0	2	06/11/12	06/12/12
trans-1,3-Dichloropropene (10061-02-6)	U		4.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.0	"	"	"
Dibromochloromethane (124-48-1)	U		4.0	"	"	"
Bromoform (75-25-2)	U		4.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		10.0	"	"	"
Toluene (108-88-3)	U		4.0	"	"	"
Tetrachloroethene (127-18-4)	**17,100**		200	100	"	06/11/12
2-Hexanone (591-78-6)	U		10.0	2	"	06/12/12
1,2-Dibromoethane (106-93-4)	U		4.0	"	"	"
Chlorobenzene (108-90-7)	U		4.0	"	"	"
Ethylbenzene (100-41-4)	U		4.0	"	"	"
meta-/para-Xylene (na)	U		8.0	"	"	"
ortho-Xylene (95-47-6)	U		4.0	"	"	"
Styrene (100-42-5)	U		4.0	"	"	"
Isopropylbenzene (98-82-8)	U		4.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		10.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**115**		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**894**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**129,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**73.0**		25.0	"	"	"
Magnesium (7439-95-4)	**12,400**		150	"	"	"
Manganese (7439-96-5)	**17.6**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**54,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**874**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	**6.4**		5.0	"	"	"
Calcium (7440-70-2)	**126,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**12,100**		150	"	"	"
Manganese (7439-96-5)	**14.2**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**53,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-02 **Station ID: MW-01**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	49.6		99.1	81-124	06/11/12	06/12/12
Surr: Toluene-d8	48.1		96.2	86-115	"	"
Surr: 4-Bromofluorobenzene	48.0		95.9	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		10.0	2	06/11/12	06/12/12
Chloromethane (74-87-3)	U		10.0	"	"	"
Vinyl chloride (75-01-4)	**171**	**J**	4.0	"	"	"
Bromomethane (74-83-9)	U		10.0	"	"	"
Chloroethane (75-00-3)	U		4.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.0	"	"	"
Carbon disulfide (75-15-0)	U		4.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.0	"	"	"
Acetone (67-64-1)	U		20.0	"	"	"
Methylene chloride (75-09-2)	U		4.0	"	"	"
Methyl acetate (79-20-9)	U		4.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**6.2**		4.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**1,070**		20.0	10	"	06/11/12
Methyl tert-butyl ether (1634-04-4)	U		4.0	2	"	06/12/12
1,1-Dichloroethane (75-34-3)	U		4.0	"	"	"
2-Butanone (78-93-3)	U		10.0	"	"	"
Chloroform (67-66-3)	U		4.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.0	"	"	"
Cyclohexane (110-82-7)	U		4.0	"	"	"
Carbon tetrachloride (56-23-5)	U		4.0	"	"	"
Benzene (71-43-2)	U		4.0	"	"	"
Trichloroethene (79-01-6)	**475**		20.0	10	"	06/11/12
Methylcyclohexane (108-87-2)	U		4.0	2	"	06/12/12
1,2-Dichloropropane (78-87-5)	U		4.0	"	"	"
Bromodichloromethane (75-27-4)	U		4.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.0	2	06/11/12	06/12/12
trans-1,3-Dichloropropene (10061-02-6)	U		4.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.0	"	"	"
Dibromochloromethane (124-48-1)	U		4.0	"	"	"
Bromoform (75-25-2)	U		4.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		10.0	"	"	"
Toluene (108-88-3)	U		4.0	"	"	"
Tetrachloroethene (127-18-4)	**7,050**		200	100	"	06/11/12
2-Hexanone (591-78-6)	U		10.0	2	"	06/12/12
1,2-Dibromoethane (106-93-4)	U		4.0	"	"	"
Chlorobenzene (108-90-7)	U		4.0	"	"	"
Ethylbenzene (100-41-4)	U		4.0	"	"	"
meta-/para-Xylene (na)	U		8.0	"	"	"
ortho-Xylene (95-47-6)	U		4.0	"	"	"
Styrene (100-42-5)	U		4.0	"	"	"
Isopropylbenzene (98-82-8)	U		4.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		10.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**159**		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**828**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**126,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**94.0**		25.0	"	"	"
Magnesium (7439-95-4)	**12,200**		150	"	"	"
Manganese (7439-96-5)	**47.0**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**65,600**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**847**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**127,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**12,200**		150	"	"	"
Manganese (7439-96-5)	**40.2**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**64,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-03 **Station ID: OB-01**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	48.1		96.2	81-124	06/11/12	06/12/12
Surr: Toluene-d8	46.9		93.9	86-115	"	"
Surr: 4-Bromofluorobenzene	48.1		96.2	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		10.0	2	06/11/12	06/12/12
Chloromethane (74-87-3)	U		10.0	"	"	"
Vinyl chloride (75-01-4)	**154**		4.0	"	"	"
Bromomethane (74-83-9)	U		10.0	"	"	"
Chloroethane (75-00-3)	U		4.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		4.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		4.0	"	"	"
Carbon disulfide (75-15-0)	U		4.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		4.0	"	"	"
Acetone (67-64-1)	U		20.0	"	"	"
Methylene chloride (75-09-2)	U		4.0	"	"	"
Methyl acetate (79-20-9)	U		4.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**8.1**		4.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**1,420**		20.0	10	"	06/11/12
Methyl tert-butyl ether (1634-04-4)	U		4.0	2	"	06/12/12
1,1-Dichloroethane (75-34-3)	U		4.0	"	"	"
2-Butanone (78-93-3)	U		10.0	"	"	"
Chloroform (67-66-3)	U		4.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		4.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		4.0	"	"	"
Cyclohexane (110-82-7)	U		4.0	"	"	"
Carbon tetrachloride (56-23-5)	U		4.0	"	"	"
Benzene (71-43-2)	U		4.0	"	"	"
Trichloroethene (79-01-6)	**1,050**		20.0	10	"	06/11/12
Methylcyclohexane (108-87-2)	U		4.0	2	"	06/12/12
1,2-Dichloropropane (78-87-5)	U		4.0	"	"	"
Bromodichloromethane (75-27-4)	U		4.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		4.0	2	06/11/12	06/12/12
trans-1,3-Dichloropropene (10061-02-6)	U		4.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		4.0	"	"	"
Dibromochloromethane (124-48-1)	U		4.0	"	"	"
Bromoform (75-25-2)	U		4.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		10.0	"	"	"
Toluene (108-88-3)	U		4.0	"	"	"
Tetrachloroethene (127-18-4)	**17,100**		200	100	"	06/11/12
2-Hexanone (591-78-6)	U		10.0	2	"	06/12/12
1,2-Dibromoethane (106-93-4)	U		4.0	"	"	"
Chlorobenzene (108-90-7)	U		4.0	"	"	"
Ethylbenzene (100-41-4)	U		4.0	"	"	"
meta-/para-Xylene (na)	U		8.0	"	"	"
ortho-Xylene (95-47-6)	U		4.0	"	"	"
Styrene (100-42-5)	U		4.0	"	"	"
Isopropylbenzene (98-82-8)	U		4.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		4.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		4.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		4.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		4.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		10.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		10.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**102**		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**897**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**124,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**79.4**		25.0	"	"	"
Magnesium (7439-95-4)	**12,200**		150	"	"	"
Manganese (7439-96-5)	**22.1**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**51,700**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**910**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**126,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**12,400**		150	"	"	"
Manganese (7439-96-5)	**22.2**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**52,800**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-04 **Station ID: OB-02**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	50.2		100	81-124	06/11/12	06/11/12
Surr: Toluene-d8	49.0		97.9	86-115	"	"
Surr: 4-Bromofluorobenzene	48.4		96.7	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	06/11/12	06/11/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**37.6**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**19.3**	**J**	2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	06/11/12	06/11/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**356**		20.0	10	"	06/11/12
2-Hexanone (591-78-6)	U		5.0	1	"	06/11/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**584**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**126,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**206**		25.0	"	"	"
Magnesium (7439-95-4)	**11,900**		150	"	"	"
Manganese (7439-96-5)	**22.0**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**58,400**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**566**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**123,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**11,600**		150	"	"	"
Manganese (7439-96-5)	**10.6**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**57,600**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-05 **Station ID: SVE-02**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	49.2		98.5	81-124	06/11/12	06/11/12
Surr: Toluene-d8	49.6		99.2	86-115	"	"
Surr: 4-Bromofluorobenzene	48.9		97.8	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	06/11/12	06/11/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**35.5**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**16.7**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	06/11/12	06/11/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**296**		4.0	2	"	06/11/12
2-Hexanone (591-78-6)	U		5.0	1	"	06/11/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals by CLP ILMO5.3 - ICP

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	**216**		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**587**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**128,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	**333**		25.0	"	"	"
Magnesium (7439-95-4)	**12,000**		150	"	"	"
Manganese (7439-96-5)	**19.4**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**59,400**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1905 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		100	1	06/20/12	06/28/12
Barium (7440-39-3)	**616**		10.0	"	"	"
Beryllium (7440-41-7)	U		5.0	"	"	"
Cadmium (7440-43-9)	U		5.0	"	"	"
Calcium (7440-70-2)	**132,000**		150	"	"	"
Chromium (7440-47-3)	U		10.0	"	"	"
Cobalt (7440-48-4)	U		20.0	"	"	"
Copper (7440-50-8)	U		20.0	"	"	"
Iron (7439-89-6)	U		25.0	"	"	"
Magnesium (7439-95-4)	**12,600**		150	"	"	"
Manganese (7439-96-5)	**11.1**		5.0	"	"	"
Nickel (7440-02-2)	U		20.0	"	"	"
Potassium (7440-09-7)	U		1,000	"	"	"
Silver (7440-22-4)	U		10.0	"	"	"
Sodium (7440-23-5)	**62,400**		500	"	"	"
Vanadium (7440-62-2)	U		20.0	"	"	"
Zinc (7440-66-6)	U		20.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1206008-06 **Station ID: SVE-02 D**

Batch: B2F1906 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	"	06/26/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		4.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-07 **Station ID: Trip Blank 1**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	48.2		96.4	81-124	06/11/12	06/11/12
Surr: Toluene-d8	49.0		98.1	86-115	"	"
Surr: 4-Bromofluorobenzene	48.3		96.5	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	06/11/12	06/11/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	U		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1206008-07 **Station ID: Trip Blank 1**

Batch: B2F1101 Date Collected: 06/05/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	06/11/12	06/11/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	U		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Blank (B2F1101-BLK1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.4		50.0	98.8	81-124
Surr: Toluene-d8	49.5		50.0	98.9	86-115
Surr: 4-Bromofluorobenzene	49.0		50.0	98.0	76-115

Blank (B2F1101-BLK1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0
Methyl acetate	U		2.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Blank (B2F1101-BLK1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
1,1,1-Trichloroethane	U		2.0
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Blank (B2F1101-BLK1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
1,2,4-Trichlorobenzene	U		5.0

Blank (B2F1101-BLK2)
Prepared: 6/12/2012 Analyzed: 6/12/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	48.3		50.0	96.5	81-124
Surr: Toluene-d8	49.5		50.0	99.0	86-115
Surr: 4-Bromofluorobenzene	47.8		50.0	95.7	76-115

Blank (B2F1101-BLK2)
Prepared: 6/12/2012 Analyzed: 6/12/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Blank (B2F1101-BLK2)

Prepared: 6/12/2012 Analyzed: 6/12/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Methyl acetate	U		2.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
1,1,1-Trichloroethane	U		2.0
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Blank (B2F1101-BLK2)
Prepared: 6/12/2012 Analyzed: 6/12/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0

LCS (B2F1101-BS1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.9		50.0	99.9	81-124
Surr: Toluene-d8	50.2		50.0	100	86-115
Surr: 4-Bromofluorobenzene	51.0		50.0	102	76-115

LCS (B2F1101-BS1)
Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	39.2		5.0	50.0	78.3	64-176
Chloromethane	42.0		5.0	50.0	84.1	70-168
Vinyl chloride	41.5		2.0	50.0	82.9	69-153
Bromomethane	39.2		5.0	50.0	78.4	73-155

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

LCS (B2F1101-BS1)

Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Chloroethane	41.3		2.0	50.0	82.7	68-137
Trichlorofluoromethane	41.9		2.0	50.0	83.8	74-137
1,1-Dichloroethene	41.6		2.0	50.0	83.3	71-142
Carbon disulfide	40.1		2.0	50.0	80.1	58-155
1,1,2-Trichloro-1,2,2-trifluoroethane	40.2		2.0	50.0	80.4 #	85-142
Acetone	46.2		10.0	50.0	92.4	46-159
Methylene chloride	44.8		2.0	50.0	89.5	75-126
Methyl acetate	47.7		2.0	50.0	95.4	70-137
trans-1,2-Dichloroethene	42.6		2.0	50.0	85.1	73-127
cis-1,2-Dichloroethene	43.1		2.0	50.0	86.1	83-121
Methyl tert-butyl ether	46.4		2.0	50.0	92.7	82-124
1,1-Dichloroethane	42.9		2.0	50.0	85.9	81-123
2-Butanone	46.5		5.0	50.0	92.9	57-153
Chloroform	43.8		2.0	50.0	87.7	83-119
1,2-Dichloroethane	43.3		2.0	50.0	86.6	81-120
1,1,1-Trichloroethane	43.0		2.0	50.0	86.0	82-124
Cyclohexane	41.9		2.0	50.0	83.7	77-141
Carbon tetrachloride	44.0		2.0	50.0	87.9	81-124
Benzene	45.4		2.0	50.0	90.9	80-122
Trichloroethene	44.0		2.0	50.0	88.0	79-121
Methylcyclohexane	42.7		2.0	50.0	85.4 #	86-126
1,2-Dichloropropane	46.1		2.0	50.0	92.3	82-119
Bromodichloromethane	47.2		2.0	50.0	94.3	82-118
cis-1,3-Dichloropropene	46.2		2.0	50.0	92.5	78-120
trans-1,3-Dichloropropene	48.6		2.0	50.0	97.2	75-123
1,1,2-Trichloroethane	49.6		2.0	50.0	99.2	81-116
Dibromochloromethane	48.5		2.0	50.0	97.0	79-112
Bromoform	47.8		2.0	50.0	95.5	76-120

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

LCS (B2F1101-BS1)

Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
4-Methyl-2-pentanone	48.3		5.0	50.0	96.6	79-130
Toluene	44.0		2.0	50.0	88.1	81-122
Tetrachloroethene	42.6		2.0	50.0	85.2	81-120
2-Hexanone	48.3		5.0	50.0	96.6	69-138
1,2-Dibromoethane	48.2		2.0	50.0	96.4	81-117
Chlorobenzene	45.5		2.0	50.0	91.1	82-119
Ethylbenzene	43.3		2.0	50.0	86.6	79-126
meta-/para-Xylene	88.0		4.0	100	88.0	73-131
ortho-Xylene	44.8		2.0	50.0	89.5	79-124
Styrene	44.7		2.0	50.0	89.5	65-126
Isopropylbenzene	43.8		2.0	50.0	87.5	82-128
1,1,2,2-Tetrachloroethane	47.7		2.0	50.0	95.4	81-117
1,3-Dichlorobenzene	43.9		2.0	50.0	87.7	82-119
1,4-Dichlorobenzene	44.9		2.0	50.0	89.9	82-120
1,2-Dichlorobenzene	44.5		2.0	50.0	89.0	81-117
1,2-Dibromo-3-chloropropane	48.2		5.0	50.0	96.3	74-122
1,2,4-Trichlorobenzene	43.5		5.0	50.0	87.0	78-119

LCS (B2F1101-BS2)

Prepared: 6/12/2012 Analyzed: 6/12/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	48.9		50.0	97.7	81-124
Surr: Toluene-d8	49.8		50.0	99.6	86-115
Surr: 4-Bromofluorobenzene	50.7		50.0	101	76-115

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

LCS (B2F1101-BS2)

Prepared: 6/12/2012 Analyzed: 6/12/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	42.0		5.0	50.0	84.1	64-176
Chloromethane	43.9		5.0	50.0	87.8	70-168
Vinyl chloride	41.9		2.0	50.0	83.7	69-153
Bromomethane	44.2		5.0	50.0	88.5	73-155
Chloroethane	42.9		2.0	50.0	85.7	68-137
Trichlorofluoromethane	40.4		2.0	50.0	80.8	74-137
1,1-Dichloroethene	42.0		2.0	50.0	84.0	71-142
Carbon disulfide	42.1		2.0	50.0	84.2	58-155
1,1,2-Trichloro-1,2,2-trifluoroethane	41.7		2.0	50.0	83.3 #	85-142
Acetone	48.6		10.0	50.0	97.3	46-159
Methylene chloride	46.5		2.0	50.0	93.0	75-126
Methyl acetate	50.0		2.0	50.0	100	70-137
trans-1,2-Dichloroethene	42.7		2.0	50.0	85.4	73-127
cis-1,2-Dichloroethene	43.8		2.0	50.0	87.6	83-121
Methyl tert-butyl ether	46.1		2.0	50.0	92.2	82-124
1,1-Dichloroethane	44.1		2.0	50.0	88.2	81-123
2-Butanone	50.0		5.0	50.0	100	57-153
Chloroform	43.6		2.0	50.0	87.2	83-119
1,2-Dichloroethane	44.5		2.0	50.0	88.9	81-120
1,1,1-Trichloroethane	43.2		2.0	50.0	86.4	82-124
Cyclohexane	42.3		2.0	50.0	84.6	77-141
Carbon tetrachloride	43.0		2.0	50.0	86.0	81-124
Benzene	42.8		2.0	50.0	85.6	80-122
Trichloroethene	42.5		2.0	50.0	85.1	79-121
Methylcyclohexane	42.0		2.0	50.0	83.9 #	86-126
1,2-Dichloropropane	44.4		2.0	50.0	88.7	82-119
Bromodichloromethane	43.3		2.0	50.0	86.5	82-118
cis-1,3-Dichloropropene	43.2		2.0	50.0	86.3	78-120

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

LCS (B2F1101-BS2)

Prepared: 6/12/2012 Analyzed: 6/12/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
trans-1,3-Dichloropropene	42.9		2.0	50.0	85.8	75-123
1,1,2-Trichloroethane	44.7		2.0	50.0	89.4	81-116
Dibromochloromethane	44.1		2.0	50.0	88.2	79-112
Bromoform	43.8		2.0	50.0	87.5	76-120
4-Methyl-2-pentanone	48.4		5.0	50.0	96.7	79-130
Toluene	42.6		2.0	50.0	85.3	81-122
Tetrachloroethene	42.3		2.0	50.0	84.5	81-120
2-Hexanone	47.6		5.0	50.0	95.3	69-138
1,2-Dibromoethane	44.4		2.0	50.0	88.9	81-117
Chlorobenzene	42.8		2.0	50.0	85.7	82-119
Ethylbenzene	42.7		2.0	50.0	85.3	79-126
meta-/para-Xylene	85.4		4.0	100	85.4	73-131
ortho-Xylene	43.0		2.0	50.0	86.1	79-124
Styrene	42.8		2.0	50.0	85.5	65-126
Isopropylbenzene	42.5		2.0	50.0	84.9	82-128
1,1,2,2-Tetrachloroethane	46.4		2.0	50.0	92.9	81-117
1,3-Dichlorobenzene	42.6		2.0	50.0	85.2	82-119
1,4-Dichlorobenzene	42.1		2.0	50.0	84.2	82-120
1,2-Dichlorobenzene	42.4		2.0	50.0	84.7	81-117
1,2-Dibromo-3-chloropropane	49.1		5.0	50.0	98.2	74-122
1,2,4-Trichlorobenzene	42.8		5.0	50.0	85.6	78-119

Matrix Spike (B2F1101-MS1)

Source: 1206008-01 Prepared: 6/11/2012 Analyzed: 6/11/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.9		50.0	99.8	81-124

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Matrix Spike (B2F1101-MS1)

Source: 1206008-01 Prepared: 6/11/2012 Analyzed: 6/11/2012

Surrogates (Continued)

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Toluene-d8	49.2		50.0	98.4	86-115
Surr: 4-Bromofluorobenzene	50.1		50.0	100	76-115

Matrix Spike (B2F1101-MS1)

Source: 1206008-01 Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
1,1-Dichloroethene	65.7		2.0	50.0		131	61-145
Benzene	60.0		2.0	50.0		120	76-127
Trichloroethene	77.4		2.0	50.0	19.8	115	71-120
Toluene	58.0		2.0	50.0		116	76-125
Chlorobenzene	54.1		2.0	50.0		108	75-130

Matrix Spike Dup (B2F1101-MSD1)

Source: 1206008-01 Prepared: 6/11/2012 Analyzed: 6/11/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	48.0		50.0	95.9	81-124
Surr: Toluene-d8	49.4		50.0	98.7	86-115
Surr: 4-Bromofluorobenzene	50.0		50.0	99.9	76-115

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2F1101 **Sample Type: Liquid**

Matrix Spike Dup (B2F1101-MSD1)

Source: 1206008-01 Prepared: 6/11/2012 Analyzed: 6/11/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	53.9		2.0	50.0		108	61-145	19.6 #	14
Benzene	55.7		2.0	50.0		111	76-127	7.45	11
Trichloroethene	73.2		2.0	50.0	19.8	107	71-120	7.61	14
Toluene	54.3		2.0	50.0		109	76-125	6.59	13
Chlorobenzene	52.5		2.0	50.0		105	75-130	2.99	13

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Blank (B2F1905-BLK1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Cadmium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	U		20.0

LCS (B2F1905-BS1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	987		100	1,000	98.7	75-125
Barium	1,830		10.0	2,000	91.4	75-125
Beryllium	47.3		5.0	50.0	94.7	75-125
Cadmium	45.9		5.0	50.0	91.7	75-125
Calcium	93,900		150	100,000	93.9	75-125

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

LCS (B2F1905-BS1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Chromium	399		10.0	400	99.7	75-125
Cobalt	183		20.0	200	91.5	75-125
Copper	381		20.0	400	95.3	75-125
Iron	940		25.0	1,000	94.0	75-125
Magnesium	96,900		150	100,000	96.9	75-125
Manganese	368		5.0	400	91.9	75-125
Nickel	359		20.0	400	89.6	75-125
Potassium	95,600		1,000	100,000	95.6	75-125
Silver	47.3		10.0	50.0	94.7	75-125
Sodium	98,200		500	100,000	98.2	75-125
Vanadium	390		20.0	400	97.6	75-125
Zinc	917		20.0	1,000	91.7	75-125

Matrix Spike (B2F1905-MS1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	984		100	1,000	4.7	98.0	75-125
Barium	2,260		10.0	2,000	560	85.2	75-125
Beryllium	45.9		5.0	50.0	0.02	91.8	75-125
Cadmium	44.0		5.0	50.0		88.0	75-125
Calcium	202,000		150	100,000	127,000	74.2 #	75-125
Chromium	384		10.0	400	0.9	95.8	75-125
Cobalt	177		20.0	200	1.8	87.4	75-125
Copper	370		20.0	400	1.3	92.1	75-125
Iron	904		25.0	1,000	5.5	89.9	75-125
Magnesium	103,000		150	100,000	11,600	91.8	75-125

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Matrix Spike (B2F1905-MS1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Manganese	354		5.0	400	0.5	88.5	75-125
Nickel	341		20.0	400	0.4	85.2	75-125
Potassium	93,400		1,000	100,000	809	92.6	75-125
Silver	43.0		10.0	50.0		86.0	75-125
Sodium	147,000		500	100,000	58,600	88.5	75-125
Vanadium	381		20.0	400	1.9	94.8	75-125
Zinc	877		20.0	1,000	2.8	87.4	75-125

Matrix Spike (B2F1905-MS2)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	1,010		100	1,000	4.7	100	75-125
Barium	2,350		10.0	2,000	560	89.3	75-125
Beryllium	46.9		5.0	50.0	0.02	93.7	75-125
Cadmium	43.9		5.0	50.0		87.7	75-125
Calcium	212,000		150	100,000	127,000	84.9	75-125
Chromium	393		10.0	400	0.9	98.1	75-125
Cobalt	179		20.0	200	1.8	88.7	75-125
Copper	377		20.0	400	1.3	93.8	75-125
Iron	929		25.0	1,000	5.5	92.4	75-125
Magnesium	106,000		150	100,000	11,600	94.3	75-125
Manganese	362		5.0	400	0.5	90.3	75-125
Nickel	345		20.0	400	0.4	86.1	75-125
Potassium	95,200		1,000	100,000	809	94.4	75-125
Silver	45.5		10.0	50.0		91.0	75-125
Sodium	153,000		500	100,000	58,600	94.7	75-125

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Matrix Spike (B2F1905-MS2)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Vanadium	390		20.0	400	1.9	97.1	75-125
Zinc	891		20.0	1,000	2.8	88.8	75-125

Matrix Spike Dup (B2F1905-MSD1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	951		100	1,000	4.7	94.7	75-125	3.42	20
Barium	2,220		10.0	2,000	560	82.9	75-125	2.08	20
Beryllium	45.0		5.0	50.0	0.02	89.9	75-125	2.16	20
Cadmium	43.1		5.0	50.0		86.2	75-125	1.99	20
Calcium	198,000		150	100,000	127,000	70.8 #	75-125	1.74	20
Chromium	378		10.0	400	0.9	94.2	75-125	1.61	20
Cobalt	174		20.0	200	1.8	86.1	75-125	1.40	20
Copper	361		20.0	400	1.3	90.0	75-125	2.30	20
Iron	887		25.0	1,000	5.5	88.1	75-125	1.93	20
Magnesium	102,000		150	100,000	11,600	90.2	75-125	1.49	20
Manganese	346		5.0	400	0.5	86.3	75-125	2.43	20
Nickel	334		20.0	400	0.4	83.5	75-125	2.06	20
Potassium	91,800		1,000	100,000	809	91.0	75-125	1.74	20
Silver	44.4		10.0	50.0		88.9	75-125	3.28	20
Sodium	145,000		500	100,000	58,600	86.0	75-125	1.74	20
Vanadium	373		20.0	400	1.9	92.8	75-125	2.03	20
Zinc	864		20.0	1,000	2.8	86.1	75-125	1.51	20

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Metals by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Matrix Spike Dup (B2F1905-MSD2)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	990		100	1,000	4.7	98.6	75-125	1.52	20
Barium	2,300		10.0	2,000	560	87.0	75-125	2.03	20
Beryllium	46.1		5.0	50.0	0.02	92.1	75-125	1.73	20
Cadmium	43.0		5.0	50.0		86.0	75-125	2.03	20
Calcium	209,000		150	100,000	127,000	81.8	75-125	1.48	20
Chromium	391		10.0	400	0.9	97.4	75-125	0.72	20
Cobalt	177		20.0	200	1.8	87.8	75-125	0.97	20
Copper	371		20.0	400	1.3	92.5	75-125	1.45	20
Iron	911		25.0	1,000	5.5	90.6	75-125	1.94	20
Magnesium	105,000		150	100,000	11,600	93.3	75-125	0.98	20
Manganese	355		5.0	400	0.5	88.7	75-125	1.79	20
Nickel	343		20.0	400	0.4	85.6	75-125	0.50	20
Potassium	94,200		1,000	100,000	809	93.3	75-125	1.12	20
Silver	44.9		10.0	50.0		89.8	75-125	1.35	20
Sodium	151,000		500	100,000	58,600	92.6	75-125	1.38	20
Vanadium	383		20.0	400	1.9	95.4	75-125	1.76	20
Zinc	885		20.0	1,000	2.8	88.3	75-125	0.59	20

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Metals by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B2F1906 **Sample Type: Liquid**

Matrix Spike (B2F1906-MS2)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	219		2.0	200	0.04	110	70-130
Arsenic	236		2.0	200		118	70-130
Lead	212		2.0	200	0.2	106	70-130
Selenium	229		2.0	200	1.8	114	70-130
Thallium	210		2.0	200	0.09	105	70-130

Matrix Spike Dup (B2F1906-MSD2)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	221		2.0	200	0.04	110	70-130	0.79	20
Arsenic	238		2.0	200		119	70-130	0.73	20
Lead	210		2.0	200	0.2	105	70-130	1.04	20
Selenium	228		2.0	200	1.8	113	70-130	0.54	20
Thallium	208		2.0	200	0.09	104	70-130	0.78	20

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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Blank (B2F1905-BLK1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Cadmium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	U		20.0

LCS (B2F1905-BS1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	987		100	1,000	98.7	75-125
Barium	1,830		10.0	2,000	91.4	75-125
Beryllium	47.3		5.0	50.0	94.7	75-125
Cadmium	45.9		5.0	50.0	91.7	75-125
Calcium	93,900		150	100,000	93.9	75-125

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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

LCS (B2F1905-BS1)

Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Chromium	399		10.0	400	99.7	75-125
Cobalt	183		20.0	200	91.5	75-125
Copper	381		20.0	400	95.3	75-125
Iron	940		25.0	1,000	94.0	75-125
Magnesium	96,900		150	100,000	96.9	75-125
Manganese	368		5.0	400	91.9	75-125
Nickel	359		20.0	400	89.6	75-125
Potassium	95,600		1,000	100,000	95.6	75-125
Silver	47.3		10.0	50.0	94.7	75-125
Sodium	98,200		500	100,000	98.2	75-125
Vanadium	390		20.0	400	97.6	75-125
Zinc	917		20.0	1,000	91.7	75-125

Matrix Spike (B2F1905-MS1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	984		100	1,000	8.8	97.6	75-125
Barium	2,260		10.0	2,000	563	85.1	75-125
Beryllium	45.9		5.0	50.0		91.9	75-125
Cadmium	44.0		5.0	50.0	20.4	47.2 #	75-125
Calcium	202,000		150	100,000	127,000	74.1 #	75-125
Chromium	384		10.0	400		96.0	75-125
Cobalt	177		20.0	200	1.6	87.5	75-125
Copper	370		20.0	400	3.2	91.6	75-125
Iron	904		25.0	1,000	3.9	90.0	75-125
Magnesium	103,000		150	100,000	11,600	91.7	75-125

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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Matrix Spike (B2F1905-MS1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Manganese	354		5.0	400	0.2	88.5	75-125
Nickel	341		20.0	400	1.9	84.8	75-125
Potassium	93,400		1,000	100,000	751	92.7	75-125
Silver	43.0		10.0	50.0	1.5	83.0	75-125
Sodium	147,000		500	100,000	58,700	88.4	75-125
Vanadium	381		20.0	400	2.0	94.7	75-125
Zinc	877		20.0	1,000	15.2	86.1	75-125

Matrix Spike Dup (B2F1905-MSD1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Aluminum	951		100	1,000	8.8	94.2	75-125	3.42	20
Barium	2,220		10.0	2,000	563	82.8	75-125	2.08	20
Beryllium	45.0		5.0	50.0		89.9	75-125	2.16	20
Cadmium	43.1		5.0	50.0	20.4	45.5 #	75-125	1.99	20
Calcium	198,000		150	100,000	127,000	70.6 #	75-125	1.74	20
Chromium	378		10.0	400		94.5	75-125	1.61	20
Cobalt	174		20.0	200	1.6	86.3	75-125	1.40	20
Copper	361		20.0	400	3.2	89.5	75-125	2.30	20
Iron	887		25.0	1,000	3.9	88.3	75-125	1.93	20
Magnesium	102,000		150	100,000	11,600	90.2	75-125	1.49	20
Manganese	346		5.0	400	0.2	86.4	75-125	2.43	20
Nickel	334		20.0	400	1.9	83.1	75-125	2.06	20
Potassium	91,800		1,000	100,000	751	91.1	75-125	1.74	20
Silver	44.4		10.0	50.0	1.5	85.9	75-125	3.28	20
Sodium	145,000		500	100,000	58,700	85.8	75-125	1.74	20

Environmental Protection Agency
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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2F1905 **Sample Type: Liquid**

Matrix Spike Dup (B2F1905-MSD1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/28/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Vanadium	373		20.0	400	2.0	92.8	75-125	2.03	20
Zinc	864		20.0	1,000	15.2	84.8	75-125	1.51	20

Environmental Protection Agency
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Metals (Dissolved) by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B2F1906 **Sample Type: Liquid**

Blank (B2F1906-BLK1)

Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Antimony	U		2.0
Arsenic	U		2.0
Lead	U		2.0
Selenium	U		2.0
Thallium	U		2.0

LCS (B2F1906-BS1)

Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	207		2.0	200	103	85-115
Arsenic	214		2.0	200	107	85-115
Lead	208		2.0	200	104	85-115
Selenium	212		2.0	200	106	85-115
Thallium	205		2.0	200	103	85-115

Matrix Spike (B2F1906-MS1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	211		2.0	200	0.05	105	70-130
Arsenic	221		2.0	200		110	70-130
Lead	211		2.0	200	0.1	106	70-130
Selenium	220		2.0	200	1.6	109	70-130
Thallium	209		2.0	200	0.6	104	70-130

Environmental Protection Agency
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Metals (Dissolved) by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B2F1906 **Sample Type: Liquid**

Matrix Spike Dup (B2F1906-MSD1)

Source: 1206008-01 Prepared: 6/20/2012 Analyzed: 6/26/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	210		2.0	200	0.05	105	70-130	0.52	20
Arsenic	220		2.0	200		110	70-130	0.26	20
Lead	210		2.0	200	0.1	105	70-130	0.87	20
Selenium	220		2.0	200	1.6	109	70-130	0.19	20
Thallium	209		2.0	200	0.6	104	70-130	0.10	20

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USEPA CLP Generic COC (LAB COPY)
DateShipped: 6/6/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-060612-082349-0003
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
IW-03	Ground Water/ Justin Suchecki	Grab	DM(35), DM(35)	439011 (HNO3 (field filtered) pH<2 Ice), 439012 (HNO3 (field filtered) pH<2 Ice) (2)	IW-03	06/05/2012 08:45	
MW-01	Ground Water/ Justin Suchecki	Grab	DM(35)	439037 (HNO3 (field filtered) pH<2 Ice) (1)	MW-01	06/05/2012 17:11	
OB-01	Ground Water/ Justin Suchecki	Grab	DM(35)	439027 (HNO3 (field filtered) pH<2 Ice) (1)	OB-01	06/05/2012 14:24	
OB-02	Ground Water/ Justin Suchecki	Grab	DM(35)	439032 (HNO3 (field filtered) pH<2 Ice) (1)	OB-02	06/05/2012 15:53	
SVE-02	Ground Water/ Justin Suchecki	Grab	DM(35)	439017 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02	06/05/2012 11:48	
SVE-02 D	Ground Water/ Justin Suchecki	Grab	DM(35)	439022 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02 D	06/05/2012 11:48	

Sample(s) to be used for Lab QC: IW-03

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: DM=Dissolved Metals

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	6/6/12	Isaiah Harris	6/6/12	1:00						

Sample Temp: 5°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 6/6/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-060612-081624-0001
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
IW-03	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35)	439000 (HCL pH<2 Ice to 4C), 439001 (HCL pH<2 Ice to 4C), 439002 (HCL pH<2 Ice to 4C), 439003 (HCL pH<2 Ice to 4C), 439004 (HCL pH<2 Ice to 4C), 439005 (HCL pH<2 Ice to 4C), 439006 (HCL pH<2 Ice to 4C), 439007 (HCL pH<2 Ice to 4C), 439008 (HCL pH<2 Ice to 4C) (9)	IW-03	06/05/2012 08:45	
MW-01	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439033 (HCL pH<2 Ice to 4C), 439034 (HCL pH<2 Ice to 4C), 439035 (HCL pH<2 Ice to 4C) (3)	MW-01	06/05/2012 17:11	
OB-01	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439023 (HCL pH<2 Ice to 4C), 439024 (HCL pH<2 Ice to 4C), 439025 (HCL pH<2 Ice to 4C) (3)	OB-01	06/05/2012 14:24	
OB-02	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439028 (HCL pH<2 Ice to 4C), 439029 (HCL pH<2 Ice to 4C), 439030 (HCL pH<2 Ice to 4C) (3)	OB-02	06/05/2012 15:53	

Sample(s) to be used for Lab QC: IW-03

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: VOA=VOA

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	6/6/12	Isaiah Harris	6/6/12	1:00						

Sample Temp: 4°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 6/6/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-060612-081624-0001
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
SVE-02	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439013 (HCL pH<2 Ice to 4C), 439014 (HCL pH<2 Ice to 4C), 439015 (HCL pH<2 Ice to 4C) (3)	SVE-02	06/05/2012 11:48	
SVE-02 D	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439018 (HCL pH<2 Ice to 4C), 439019 (HCL pH<2 Ice to 4C), 439020 (HCL pH<2 Ice to 4C) (3)	SVE-02 D	06/05/2012 11:48	
Trip Blank 1	Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	439038 (HCL pH<2 Ice to 4C), 439039 (HCL pH<2 Ice to 4C), 439040 (HCL pH<2 Ice to 4C) (3)	Trip Blank 1	06/05/2012 07:00	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: VOA=VOA

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	QR	6/6/12	Isaiah Harris	6/6/12	1:00						

Sample Temp: 4°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 6/6/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-060612-082052-0002
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
IW-03	Ground Water/ Justin Suchecki	Grab	TM(35), TM(35)	439009 (HNO3 pH<2 Ice to 4C), 439010 (HNO3 pH<2 Ice to 4C) (2)	IW-03	06/05/2012 08:45	
MW-01	Ground Water/ Justin Suchecki	Grab	TM(35)	439036 (HNO3 pH<2 Ice to 4C) (1)	MW-01	06/05/2012 17:11	
OB-01	Ground Water/ Justin Suchecki	Grab	TM(35)	439026 (HNO3 pH<2 Ice to 4C) (1)	OB-01	06/05/2012 14:24	
OB-02	Ground Water/ Justin Suchecki	Grab	TM(35)	439031 (HNO3 pH<2 Ice to 4C) (1)	OB-02	06/05/2012 15:53	
SVE-02	Ground Water/ Justin Suchecki	Grab	TM(35)	439016 (HNO3 pH<2 Ice to 4C) (1)	SVE-02	06/05/2012 11:48	
SVE-02 D	Ground Water/ Justin Suchecki	Grab	TM(35)	439021 (HNO3 pH<2 Ice to 4C) (1)	SVE-02 D	06/05/2012 11:48	

Sample(s) to be used for Lab QC: IW-03

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TM=Total Metals

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	6/6/12	Isaiah Harris	6/6/12	1:00						

Sample Temp: 5°C

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

ALS Environmental

Work Order: 1206199

Project Name:

Jones Road

EA Engineering, Science and Technology

Teri McMillan
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102
(505) 224-9013

16-Feb-2013

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

TABLE OF CONTENTS
Work Order # 1206199

- Cover Letter
- TRRP Cover Page
- TRRP Laboratory Review Checklist
- Sample Summary Table
- Chain of Custody, Sample Receipt Checklist, and Related Documents
- Qualifiers, Acronyms, and Units Table
- Analytical Report
- Dates Report
- Method Detection/Reporting Limits
- QC Batch Summary Report
- Gases RSK 175 Raw Data
- Wet Chemistry Raw Data

16-Feb-2013

Teri McMillan
EA Engineering, Science and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102

Tel: (505) 224-9013
Fax: (505) 224-9016

Re: Jones Road Work Order: **1206199**

Dear Teri,

ALS Environmental received 6 samples on 05-Jun-2012 09:03 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 139.

Regards,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	EA Engineering, Science and Technology	**TRRP Laboratory Data Package Cover Page**
Project:	Jones Road	
Work Order:	1206199	

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Patricia L. Lynch

Patricia L. Lynch
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 02/16/2013					
Project Name: Jones Road			Laboratory Job Number: 1206199					
Reviewer Name: Pat Lynch			Prep Batch Number(s): R129102, R129193, R129366, R129367					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 02/16/2013					
Project Name: Jones Road			Laboratory Job Number: 1206199					
Reviewer Name: Pat Lynch			Prep Batch Number(s): R129102, R129193, R129366, R129367					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1206199
Reviewer Name: Pat Lynch	Prep Batch Number(s): R129102, R129193, R129366, R129367

ER#[5]	Description
1	Batch R129102, Anions Method 300, Sample 1206211-03, MS/MSD is for an unrelated sample.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: **1206199**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1206199-01	IW - 03	Water		6/5/2012 08:45	6/5/2012 09:03	☐
1206199-01	IW - 03	Water		6/5/2012 08:45	6/6/2012 09:03	☐
1206199-02	SVE - 02	Water		6/5/2012 11:48	6/5/2012 09:03	☐
1206199-02	SVE - 02	Water		6/5/2012 11:48	6/6/2012 09:03	☐
1206199-03	SVE - 02 D	Water		6/5/2012 11:48	6/5/2012 09:03	☐
1206199-03	SVE - 02 D	Water		6/5/2012 11:48	6/6/2012 09:03	☐
1206199-04	OB - 01	Water		6/5/2012 14:24	6/5/2012 09:03	☐
1206199-04	OB - 01	Water		6/5/2012 14:24	6/6/2012 09:03	☐
1206199-05	OB - 02	Water		6/5/2012 15:53	6/5/2012 09:03	☐
1206199-05	OB - 02	Water		6/5/2012 15:53	6/6/2012 09:03	☐
1206199-06	MW - 01	Water		6/5/2012 17:11	6/5/2012 09:03	☐
1206199-06	MW - 01	Water		6/5/2012 17:11	6/6/2012 09:03	☐

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: 1206199

Case Narrative

At the request of the client, this report was revised to TRRP Level IV from standard report.

ALS Environmental

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 57133

1206199

EA - NM: EA Engineering, Science and Technolog

Project: Jones Road

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Jones Road	A	Gas...
Work Order	10373	Project Number	1434270 B 3	B	Anions (300) SO4, NO2, NO3
Company Name	EA Engineering, Science and Technology	Bill To Company	EA Engineering, Science and Technolo	C	Total TOC (415.1)
Send Report To	Teri McMillan	Invoice Attn	Teri McMillan	D	Dissolved TOC (415.1) → field filtered
Address	320 Gold Avenue SW, Suite 1210	Address	320 Gold Avenue SW, Suite 1210	E	
				F	
City/State/Zip	Albuquerque, New Mexico 87102	City/State/Zip	Albuquerque, New Mexico 87102	G	
Phone	(505) 224-9013	Phone	(505) 224-9013	H	
Fax	(505) 224-9016	Fax	(505) 224-9016	I	
e-Mail Address	tmcmillan@eaest.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IW-03	6/5/12	0845	GW	1,3	11	X	X	X	X	Note:		Use extra volume for MS/MSD				
2	SVE-02		1148			5							Temp blank included				
3	SVE-02 D		1149			5							in each cooler				
4	OB-01		1424			5											
5	OB-02		1553			5											
6	MW-01		1711			5											
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Justin Sucheckl

Shipment Method:

Required Turnaround Time: (Check Box) Std 10 WK Days 5-7 WK Days 2 WK Days 24 Hour Other

Results Due Date:

Relinquished by: Justin Sucheckl Date: 6/6/12 Time: 0983 Received by:

Notes: 5 Day TAT Client will fax.

Relinquished by: Date: Time: Received by (Laboratory):

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Cooler ID: 2731, 2643

Cooler Temp.:

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Sample Receipt Checklist

Client Name: EA - NM

Date/Time Received: 05-Jun-12 09:03

Work Order: 1206199

Received by: JBA

Checklist completed by Johnnie B. Allen (eSignature) 06-Jun-12 (Date)

Reviewed by: Patricia L. Lynch (eSignature) 07-Jun-12 (Date)

Matrices: water

Carrier name: ALS.HS

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 0.8 C /0.4 C 003

Cooler(s)/Kit(s): 2731 / 2643

Date/Time sample(s) sent to storage:

	Yes	No		
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted	☐
Water - pH acceptable upon receipt?	☑	☐	N/A	☐
pH adjusted?	☐	☑	N/A	☐

pH adjusted by: -

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
2731

CUSTODY SEAL
Date: 6/6/12 Time: 0800
Name: Justin Sieck
Company: EA Engineering
Seal Number: 2642
Date: 6/6/12

CUSTODY SEAL
Date: 6/6/12 Time: 2400
Name: Justin Sieck
Company: EA Engineering
Seal Number: 2643
Date: 6/6/12

ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
2643

Client: EA Engineering, Science and Technology
Project: Jones Road
WorkOrder: 1206199

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
ug/L	Micrograms per Liter

Analytical Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: IW - 03
Collection Date: 6/5/2012 08:45 AM

Work Order: 1206199
Lab ID: 1206199-01
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: **RSK-175**					Analyst: **GWK**
Ethane	U		0.200	1.00	ug/L	1	6/8/2012 12:53
Ethene	U		0.200	1.00	ug/L	1	6/8/2012 12:53
Methane	U		0.200	0.500	ug/L	1	6/8/2012 12:53
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	U		0.030	0.100	mg/L	1	6/6/2012 19:23
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	6/6/2012 19:23
Sulfate	**11.7**		**0.20**	**0.500**	**mg/L**	1	6/6/2012 19:23
Surr: Selenate (surr)	*108*			*85-115*	*%REC*	1	6/6/2012 19:23
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **RPM**
Organic Carbon, Dissolved	**0.694**		**0.10**	**0.500**	**mg/L**	1	6/11/2012 13:18
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **RPM**
Organic Carbon, Total	**0.236**	J	**0.10**	**0.500**	**mg/L**	1	6/11/2012 15:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE - 02
Collection Date: 6/5/2012 11:48 AM

Work Order: 1206199
Lab ID: 1206199-02
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: GWK
Ethane	U		0.200	1.00	ug/L	1	6/8/2012 13:04
Ethene	U		0.200	1.00	ug/L	1	6/8/2012 13:04
Methane	U		0.200	0.500	ug/L	1	6/8/2012 13:04
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	**2.11**		**0.030**	**0.100**	**mg/L**	1	6/6/2012 21:34
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	6/6/2012 21:34
Sulfate	**13.2**		**0.20**	**0.500**	**mg/L**	1	6/6/2012 21:34
Surr: Selenate (surr)	*107*			*85-115*	*%REC*	1	6/6/2012 21:34
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Dissolved	**0.887**		**0.10**	**0.500**	**mg/L**	1	6/11/2012 14:01
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Total	**0.361**	J	**0.10**	**0.500**	**mg/L**	1	6/11/2012 16:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE - 02 D
Collection Date: 6/5/2012 11:48 AM

Work Order: 1206199
Lab ID: 1206199-03
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: GWK
Ethane	U		0.200	1.00	ug/L	1	6/8/2012 13:15
Ethene	U		0.200	1.00	ug/L	1	6/8/2012 13:15
Methane	**0.348**	J	**0.200**	**0.500**	**ug/L**	1	6/8/2012 13:15
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	**2.10**		**0.030**	**0.100**	**mg/L**	1	6/6/2012 21:48
Nitrogen, Nitrite (As N)	**0.0570**	J	**0.030**	**0.100**	**mg/L**	1	6/6/2012 21:48
Sulfate	**13.1**		**0.20**	**0.500**	**mg/L**	1	6/6/2012 21:48
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	6/6/2012 21:48
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Dissolved	**0.488**	J	**0.10**	**0.500**	**mg/L**	1	6/11/2012 14:15
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Total	**0.354**	J	**0.10**	**0.500**	**mg/L**	1	6/11/2012 16:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB - 01
Collection Date: 6/5/2012 02:24 PM

Work Order: 1206199
Lab ID: 1206199-04
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: GWK
Ethane	1.60		0.200	1.00	ug/L	1	6/8/2012 13:27
Ethene	0.653	J	0.200	1.00	ug/L	1	6/8/2012 13:27
Methane	58.7		0.400	1.00	ug/L	2	6/8/2012 15:32
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	2.16		0.030	0.100	mg/L	1	6/6/2012 22:17
Nitrogen, Nitrite (As N)	0.0690	J	0.030	0.100	mg/L	1	6/6/2012 22:17
Sulfate	18.4		0.20	0.500	mg/L	1	6/6/2012 22:17
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	6/6/2012 22:17
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Dissolved	3.27		0.10	0.500	mg/L	1	6/11/2012 14:30
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Total	2.92		0.10	0.500	mg/L	1	6/11/2012 16:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB - 02
Collection Date: 6/5/2012 03:53 PM

Work Order: 1206199
Lab ID: 1206199-05
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: GWK
Ethane	2.31		0.200	1.00	ug/L	1	6/8/2012 13:48
Ethene	1.83		0.200	1.00	ug/L	1	6/8/2012 13:48
Methane	28.3		0.200	0.500	ug/L	1	6/8/2012 13:48
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	2.41		0.030	0.100	mg/L	1	6/6/2012 22:32
Nitrogen, Nitrite (As N)	0.0400	J	0.030	0.100	mg/L	1	6/6/2012 22:32
Sulfate	14.9		0.20	0.500	mg/L	1	6/6/2012 22:32
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	1	6/6/2012 22:32
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Dissolved	1.79		0.10	0.500	mg/L	1	6/11/2012 14:45
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Total	1.32		0.10	0.500	mg/L	1	6/11/2012 17:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: MW - 01
Collection Date: 6/5/2012 05:11 PM

Work Order: 1206199
Lab ID: 1206199-06
Matrix: WATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: GWK
Ethane	0.800	J	0.200	1.00	ug/L	1	6/8/2012 13:59
Ethene	0.823	J	0.200	1.00	ug/L	1	6/8/2012 13:59
Methane	12.2		0.200	0.500	ug/L	1	6/8/2012 13:59
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	2.48		0.030	0.100	mg/L	1	6/6/2012 22:46
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	6/6/2012 22:46
Sulfate	14.5		0.20	0.500	mg/L	1	6/6/2012 22:46
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	6/6/2012 22:46
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Dissolved	1.40		0.10	0.500	mg/L	1	6/11/2012 15:28
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: RPM
Organic Carbon, Total	1.16		0.10	0.500	mg/L	1	6/11/2012 17:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Dates Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

Work Order: 1206199
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R129102	**Test Name:** Anions - EPA 300.0 (1993)					
1206199-01B	IW - 03	Water	6/5/2012 8:45:00 AM			6/6/2012 07:23 PM
1206199-02B	SVE - 02		6/5/2012 11:48:00 AM			6/6/2012 09:34 PM
1206199-03B	SVE - 02 D					6/6/2012 09:48 PM
1206199-04B	OB - 01		6/5/2012 2:24:00 PM			6/6/2012 10:17 PM
1206199-05B	OB - 02		6/5/2012 3:53:00 PM			6/6/2012 10:32 PM
1206199-06B	MW - 01		6/5/2012 5:11:00 PM			6/6/2012 10:46 PM
Batch ID R129193	**Test Name:** Dissolved Gases					
1206199-01A	IW - 03	Water	6/5/2012 8:45:00 AM			6/8/2012 12:53 PM
1206199-02A	SVE - 02		6/5/2012 11:48:00 AM			6/8/2012 01:04 PM
1206199-03A	SVE - 02 D					6/8/2012 01:15 PM
1206199-04A	OB - 01		6/5/2012 2:24:00 PM			6/8/2012 01:27 PM
						6/8/2012 03:32 PM
1206199-05A	OB - 02		6/5/2012 3:53:00 PM			6/8/2012 01:48 PM
1206199-06A	MW - 01		6/5/2012 5:11:00 PM			6/8/2012 01:59 PM
Batch ID R129366	**Test Name:** TOC, Dissolved - SM5310C					
1206199-01D	IW - 03	Water	6/5/2012 8:45:00 AM			6/11/2012 01:18 PM
1206199-02D	SVE - 02		6/5/2012 11:48:00 AM			6/11/2012 02:01 PM
1206199-03D	SVE - 02 D					6/11/2012 02:15 PM
1206199-04D	OB - 01		6/5/2012 2:24:00 PM			6/11/2012 02:30 PM
1206199-05D	OB - 02		6/5/2012 3:53:00 PM			6/11/2012 02:45 PM
1206199-06D	MW - 01		6/5/2012 5:11:00 PM			6/11/2012 03:28 PM

Work Order: 1206199
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R129367	**Test Name:** Total Organic Carbon - SM5310C					
1206199-01C	IW - 03	Water	6/5/2012 8:45:00 AM			6/11/2012 03:42 PM
1206199-02C	SVE - 02		6/5/2012 11:48:00 AM			6/11/2012 04:23 PM
1206199-03C	SVE - 02 D					6/11/2012 04:37 PM
1206199-04C	OB - 01		6/5/2012 2:24:00 PM			6/11/2012 04:52 PM
1206199-05C	OB - 02		6/5/2012 3:53:00 PM			6/11/2012 05:07 PM
1206199-06C	MW - 01		6/5/2012 5:11:00 PM			6/11/2012 05:21 PM

Method Detection/Reporting Limits

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1206199
InstrumentID: FID-4
Test Code: RSK-175
Test Number: RSK-175
Test Name: Dissolved Gases

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Ethane	74-84-0	0.321	0.200	1.00
A	Ethene	74-85-1	0.290	0.200	1.00
A	Methane	74-82-8	0.184	0.200	0.500

WorkOrder: 1206199
InstrumentID: ICS2100
Test Code: 300_W
Test Number: E300
Test Name: Anions - EPA 300.0 (1993)

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Nitrogen, Nitrate (As N)	14797-55-8	0.063	0.030	0.10
A	Nitrogen, Nitrite (As N)	14797-65-0	0.045	0.030	0.10
A	Sulfate	14808-79-8	0.36	0.20	0.50
S	Surr: Selenate (surr)	10102-23-5	0	0.10	0.10

ALS Environmental

Date: 16-Feb-13

WorkOrder: 1206199
InstrumentID: TOC_02
Test Code: TOC_Diss_5310C
Test Number: SM5310C
Test Name: TOC, Dissolved - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Dissolved	DOC	0.30	0.10	0.50

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1206199
InstrumentID: TOC_02
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon - SM5310C **Matrix:** Aqueous **Units:** mg/L

METHOD DETECTION / REPORTING LIMITS

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Total	7440-44-0	0.34	0.10	0.50

QC Batch Summary Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129193** Instrument ID **FID-4** Method: **RSK-175**

MBLK Sample ID: **GBLKW1-120608-R129193** Units: **ug/L** Analysis Date: **6/8/2012 10:05 AM**
Client ID: Run ID: **FID-4_120608A** SeqNo: **2813324** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.0								
Ethene	U	1.0								
Methane	U	0.50								

LCS Sample ID: **GLCSW1-120608-R129193** Units: **ug/L** Analysis Date: **6/8/2012 09:41 AM**
Client ID: Run ID: **FID-4_120608A** SeqNo: **2813322** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.45	1.0	18	0	80.3	75-125	0			
Ethene	14.64	1.0	16.8	0	87.1	75-125	0			
Methane	8.406	0.50	9.62	0	87.4	75-125	0			

LCSD Sample ID: **GLCSDW1-120608-R129193** Units: **ug/L** Analysis Date: **6/8/2012 09:56 AM**
Client ID: Run ID: **FID-4_120608A** SeqNo: **2813323** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	17.19	1.0	18	0	95.5	75-125	14.45	17.3	30	
Ethene	16.09	1.0	16.8	0	95.8	75-125	14.64	9.46	30	
Methane	8.724	0.50	9.62	0	90.7	75-125	8.406	3.71	30	

MS Sample ID: **1206199-01AMS** Units: **ug/L** Analysis Date: **6/8/2012 04:57 PM**
Client ID: **IW - 03** Run ID: **FID-4_120608A** SeqNo: **2813796** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	18.74	1.0	18	0	104	70-130	0			
Ethene	15.58	1.0	16.8	0	92.7	70-130	0			
Methane	8.539	0.50	9.62	0	88.8	70-130	0			

MSD Sample ID: **1206199-01AMSD** Units: **ug/L** Analysis Date: **6/8/2012 05:07 PM**
Client ID: **IW - 03** Run ID: **FID-4_120608A** SeqNo: **2813818** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	18.04	1.0	18	0	100	70-130	18.74	3.77	30	
Ethene	14.56	1.0	16.8	0	86.7	70-130	15.58	6.74	30	
Methane	8.162	0.50	9.62	0	84.8	70-130	8.539	4.52	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129193** Instrument ID **FID-4** Method: **RSK-175**

The following samples were analyzed in this batch:

1206199-01A	1206199-02A	1206199-03A
1206199-04A	1206199-05A	1206199-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129102** Instrument ID **ICS2100** Method: **E300** **(Dissolve)**

MBLK Sample ID: **WBLKS1-060412-R129102** Units: **mg/L** Analysis Date: **6/4/2012 07:08 PM**
Client ID: Run ID: **ICS2100_120606B** SeqNo: **2811262** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	U	0.50								
Surr: Selenate (surr)	5.365	0.10	*5*	0	*107*	*85-115*	0			

LCS Sample ID: **WLCSS1-060412-R129102** Units: **mg/L** Analysis Date: **6/6/2012 06:54 PM**
Client ID: Run ID: **ICS2100_120606B** SeqNo: **2811265** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.862	0.10	4	0	96.6	90-110	0			
Nitrogen, Nitrite (As N)	3.923	0.10	4	0	98.1	90-110	0			
Sulfate	19.17	0.50	20	0	95.8	90-110	0			
Surr: Selenate (surr)	5.126	0.10	*5*	0	*103*	*85-115*	0			

LCSD Sample ID: **WLCSDS1-060412-R129102** Units: **mg/L** Analysis Date: **6/6/2012 07:08 PM**
Client ID: Run ID: **ICS2100_120606B** SeqNo: **2811266** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.887	0.10	4	0	97.2	90-110	3.862	0.645	20	
Nitrogen, Nitrite (As N)	3.916	0.10	4	0	97.9	90-110	3.923	0.179	20	
Sulfate	19.35	0.50	20	0	96.8	90-110	19.17	0.95	20	
Surr: Selenate (surr)	5.149	0.10	*5*	0	*103*	*85-115*	5.126	*0.448*	*20*	

MS Sample ID: **1206211-03CMSZ** Units: **mg/L** Analysis Date: **6/7/2012 12:57 AM**
Client ID: Run ID: **ICS2100_120606B** SeqNo: **2811292** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	1.736	0.10	2	0	86.8	80-120	0			
Nitrogen, Nitrite (As N)	1.86	0.10	2	0	93	80-120	0			
Sulfate	123	0.50	10	116.9	60.8	80-120	0			SEO
Surr: Selenate (surr)	4.933	0.10	*5*	0	*98.7*	*85-115*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129102** Instrument ID **ICS2100** Method: **E300** **(Dissolve)**

MSD Sample ID: **1206211-03CMSDZ** Units: **mg/L** Analysis Date: **6/7/2012 01:12 AM**

Client ID: Run ID: **ICS2100_120606B** SeqNo: **2811293** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	1.775	0.10	2	0	88.8	80-120	1.736	2.22	20	
Nitrogen, Nitrite (As N)	1.896	0.10	2	0	94.8	80-120	1.86	1.92	20	
Sulfate	125	0.50	10	116.9	80.9	80-120	123	1.62	20	EO
Surr: Selenate (surr)	5.005	0.10	*5*	0	*100*	*85-115*	4.933	*1.45*	*20*	

The following samples were analyzed in this batch:

1206199-01B	1206199-02B	1206199-03B
1206199-04B	1206199-05B	1206199-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129366** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW1-061112-R129366** Units: **mg/L** Analysis Date: **6/11/2012 12:31 PM**
Client ID: Run ID: **TOC_02_120611A** SeqNo: **2817089** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	U	0.50								

LCS Sample ID: **WLCSW1-061112-R129366** Units: **mg/L** Analysis Date: **6/11/2012 12:44 PM**
Client ID: Run ID: **TOC_02_120611A** SeqNo: **2817090** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	8.99	0.50	10	0	89.9	80-120	0			

LCSD Sample ID: **WLCSDW1-061112-R129366** Units: **mg/L** Analysis Date: **6/11/2012 01:01 PM**
Client ID: Run ID: **TOC_02_120611A** SeqNo: **2817091** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.146	0.50	10	0	91.5	80-120	8.99	1.72	20	

MS Sample ID: **1206199-01DMS** Units: **mg/L** Analysis Date: **6/11/2012 01:33 PM**
Client ID: **IW - 03** Run ID: **TOC_02_120611A** SeqNo: **2817093** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.926	0.50	10	0.6942	92.3	80-120	0			

MSD Sample ID: **1206199-01DMSD** Units: **mg/L** Analysis Date: **6/11/2012 01:47 PM**
Client ID: **IW - 03** Run ID: **TOC_02_120611A** SeqNo: **2817094** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.96	0.50	10	0.6942	92.7	80-120	9.926	0.342	20	

The following samples were analyzed in this batch:

1206199-01D	1206199-02D	1206199-03D
1206199-04D	1206199-05D	1206199-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1206199
Project: Jones Road

QC BATCH REPORT

Batch ID: **R129367** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW1-061112-R129367** Units: **mg/L** Analysis Date: **6/11/2012 12:31 PM**
Client ID: Run ID: **TOC_02_120611B** SeqNo: **2817111** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.50								

LCS Sample ID: **WLCSW1-061112-R129367** Units: **mg/L** Analysis Date: **6/11/2012 12:44 PM**
Client ID: Run ID: **TOC_02_120611B** SeqNo: **2817112** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	8.99	0.50	10	0	89.9	80-120	0			

LCSD Sample ID: **WLCSDW1-061112-R129367** Units: **mg/L** Analysis Date: **6/11/2012 01:01 PM**
Client ID: Run ID: **TOC_02_120611B** SeqNo: **2817113** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.146	0.50	10	0	91.5	80-120	8.99	1.72	20	

MS Sample ID: **1206199-01CMS** Units: **mg/L** Analysis Date: **6/11/2012 03:57 PM**
Client ID: **IW - 03** Run ID: **TOC_02_120611B** SeqNo: **2817118** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.779	0.50	10	0.2363	95.4	80-120	0			

MSD Sample ID: **1206199-01CMSD** Units: **mg/L** Analysis Date: **6/11/2012 04:10 PM**
Client ID: **IW - 03** Run ID: **TOC_02_120611B** SeqNo: **2817119** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.826	0.50	10	0.2363	95.9	80-120	9.779	0.479	20	

The following samples were analyzed in this batch:

1206199-01C	1206199-02C	1206199-03C
1206199-04C	1206199-05C	1206199-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Dissolved Gases (RSK 175) Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Matrix Spike - ENG SC Sample No.: ICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT (ug/L)	% REC #	QC. LIMITS REC.
Methane	9.620	9.149	95	75-125
Ethane	18.000	17.184	95	75-125
Ethene	16.800	16.216	96	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

LAB FILE ID: RF1: 002 RF5: 003 RF10: 004
RF25: 005 RF50: 006

COMPOUND	RF1	RF5	RF10	RF25	RF50
Methane	851.948	819.792	841.039	725.780	693.229
Ethane	786.704	867.867	917.728	762.389	747.978
Ethene	602.374	716.320	735.163	622.917	614.095

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

RF100: 007

COMPOUND	RF100	CURVE	COEFFICENT A1	%RSD OR R^2
Methane	709.117	AVRG	773.484059	9.3
Ethane	757.756	AVRG	806.737022	8.6
Ethene	624.748	AVRG	652.602827	8.8

FORM VI GASES

FID04-Logbook

Batch: 1125
Date: 10-Jan-12
Method: RSK 175
Comments: Target Sequence 120110

Analyst: Nosa Izekor
Reviewer: Grace Kamau
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	01-10-2012 10:52	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	ICAL1	CALIB_1	01-10-2012 11:27	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	ICAL2	CALIB_2	01-10-2012 11:44	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	ICAL3	CALIB_3	01-10-2012 11:56	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	ICAL4	CALIB_4	01-10-2012 12:09	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	ICAL5	CALIB_5	01-10-2012 12:26	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	ICAL6	CALIB_6	01-10-2012 12:40	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	ICV	METHSPIKE	01-10-2012 12:56	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	GLCSW1-120110	LCS	01-10-2012 13:08	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	GLCSDW1-120110	LCSD	01-10-2012 13:21	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	GBLKW1-120110	MBLK	01-10-2012 14:03	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1201086-22A	SAMP	01-10-2012 14:17	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1201086-23A	SAMP	01-10-2012 14:27	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1201086-24A	SAMP	01-10-2012 15:36	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1201086-25A	SAMP	01-10-2012 15:51	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1201086-26A	SAMP	01-10-2012 16:05	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	1201086-27A	SAMP	01-10-2012 16:18	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	1201195-13A	SAMP	01-10-2012 16:30	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	CCV	CCV	01-10-2012 16:41	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA

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Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\002.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 10-JAN-2012 11:27
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:27 Cal File: 002.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.300	2.283	0.017	328	0.38500	0.385(aM)
2 Ethene	3.630	3.643	-0.013	406	0.67400	0.674(aM)
3 Ethane	3.976	3.983	-0.007	568	0.72200	0.722(aM)

QC Flag Legend

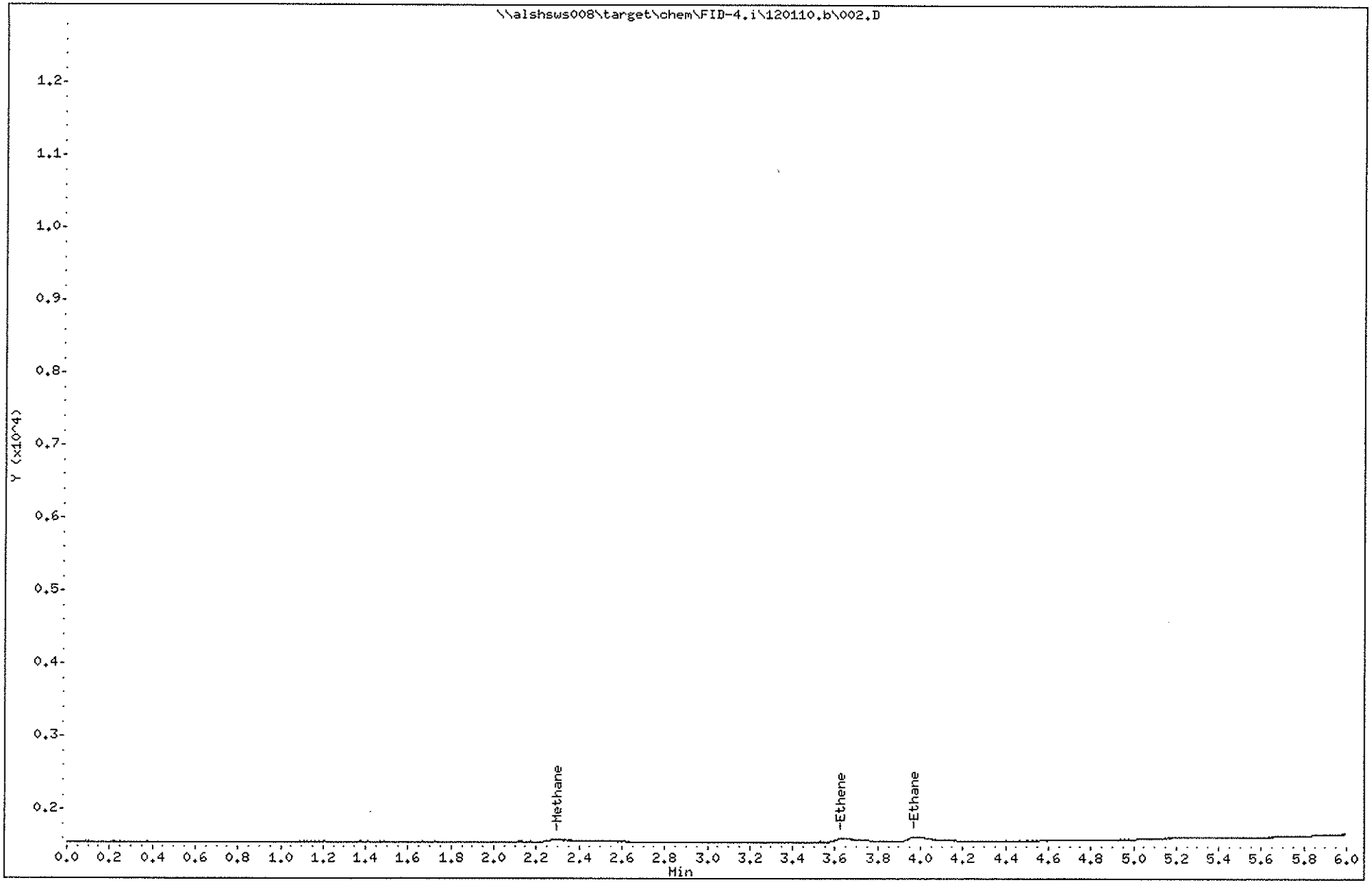
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\002.D
Date : 10-JAN-2012 11:27
Client ID: ICAL1
Sample Info: ICAL1;ICAL1

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 10-JAN-2012 11:44
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:44 Cal File: 003.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.273	2.283	-0.010	1574	1.92000	1.883
2 Ethene	3.630	3.643	-0.013	2414	3.37000	3.661
3 Ethane	3.966	3.983	-0.017	3133	3.61000	3.787

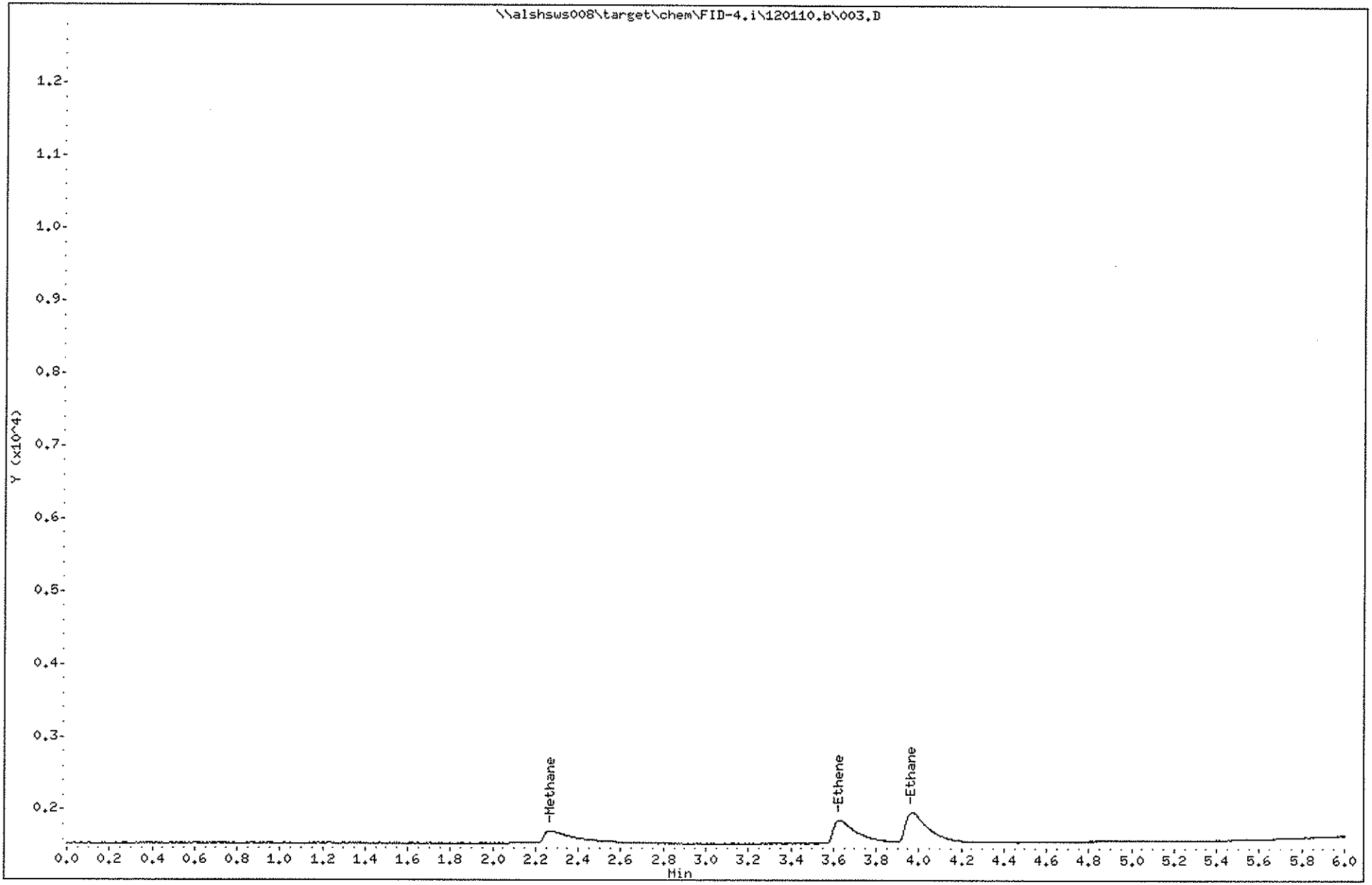
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Date : 10-JAN-2012 11:44
Client ID: ICAL2
Sample Info: ICAL2;ICAL2

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\004.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 10-JAN-2012 11:56
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:56 Cal File: 004.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.283	2.283	0.000	3238	3.85000	3.865
2 Ethene	3.643	3.643	0.000	4955	6.74000	7.237(M)
3 Ethane	3.983	3.983	0.000	6626	7.22000	7.727(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\004.D

Date : 10-JAN-2012 11:56

Client ID: ICAL3

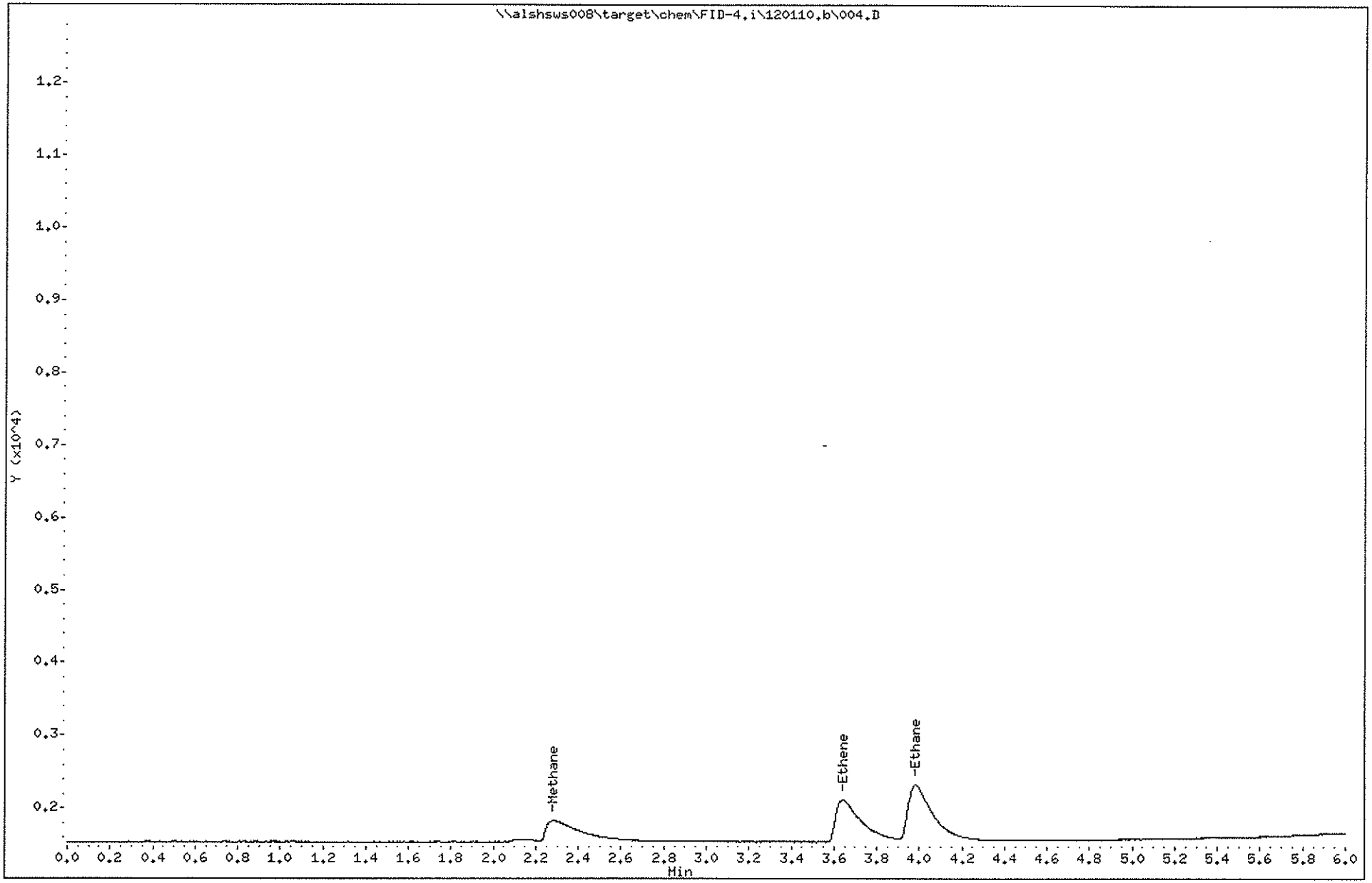
Sample Info: ICAL3;ICAL3

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI

Column diameter: 0.53



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Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\005.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 10-JAN-2012 12:09
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:09 Cal File: 005.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

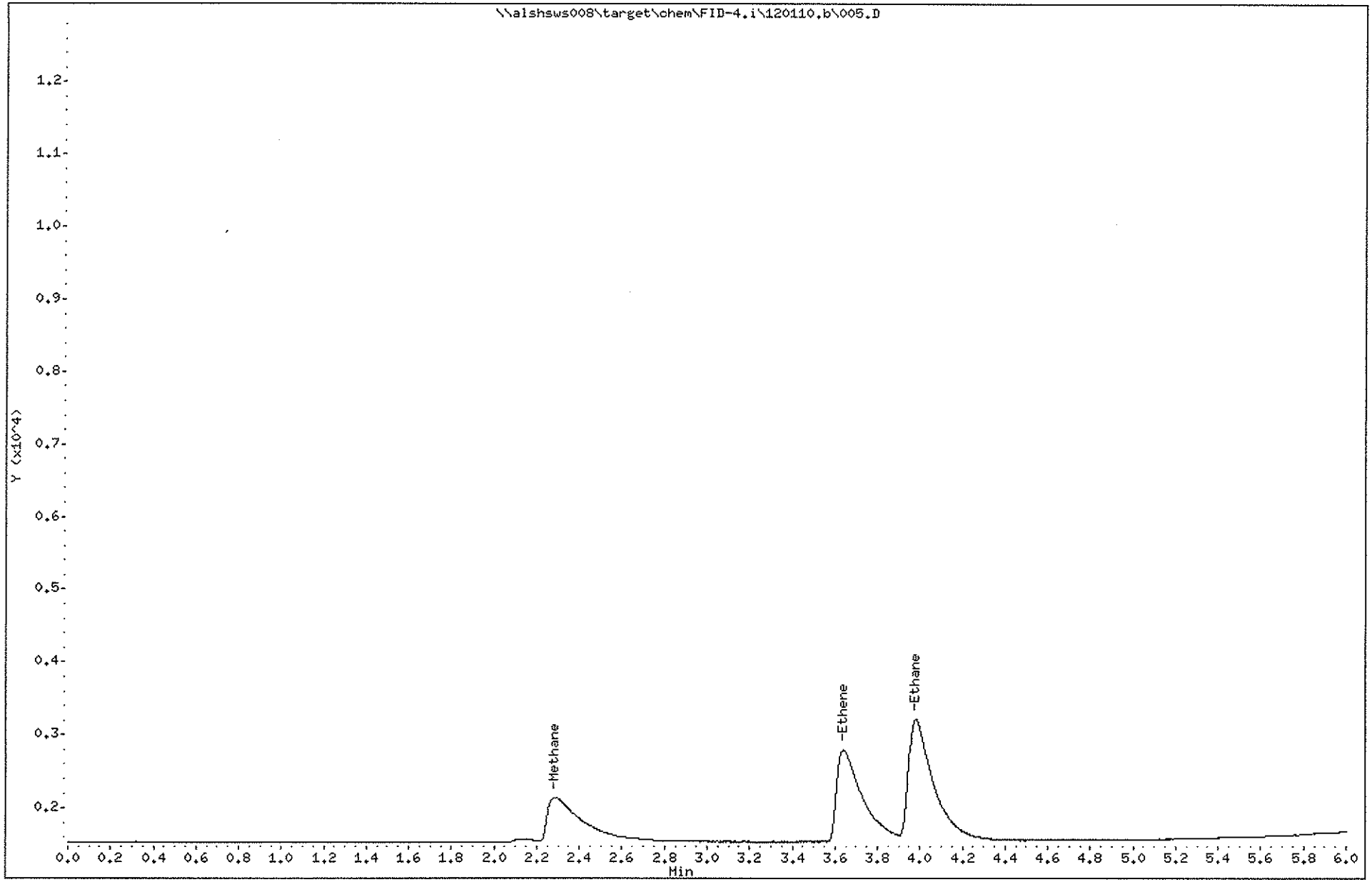
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.286	2.283	0.003	6982	9.62000	8.623
2 Ethene	3.640	3.643	-0.003	10465	16.8000	15.638
3 Ethane	3.980	3.983	-0.003	13723	18.0000	16.460

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\005.D
Date : 10-JAN-2012 12:09
Client ID: ICAL4
Sample Info: ICAL4;ICAL4

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



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Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 10-JAN-2012 12:26
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:26 Cal File: 006.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.293	2.283	0.010	13310	19.2000	16.926
2 Ethene	3.643	3.643	0.000	20695	33.7000	31.443
3 Ethane	3.983	3.983	0.000	27002	36.1000	33.069

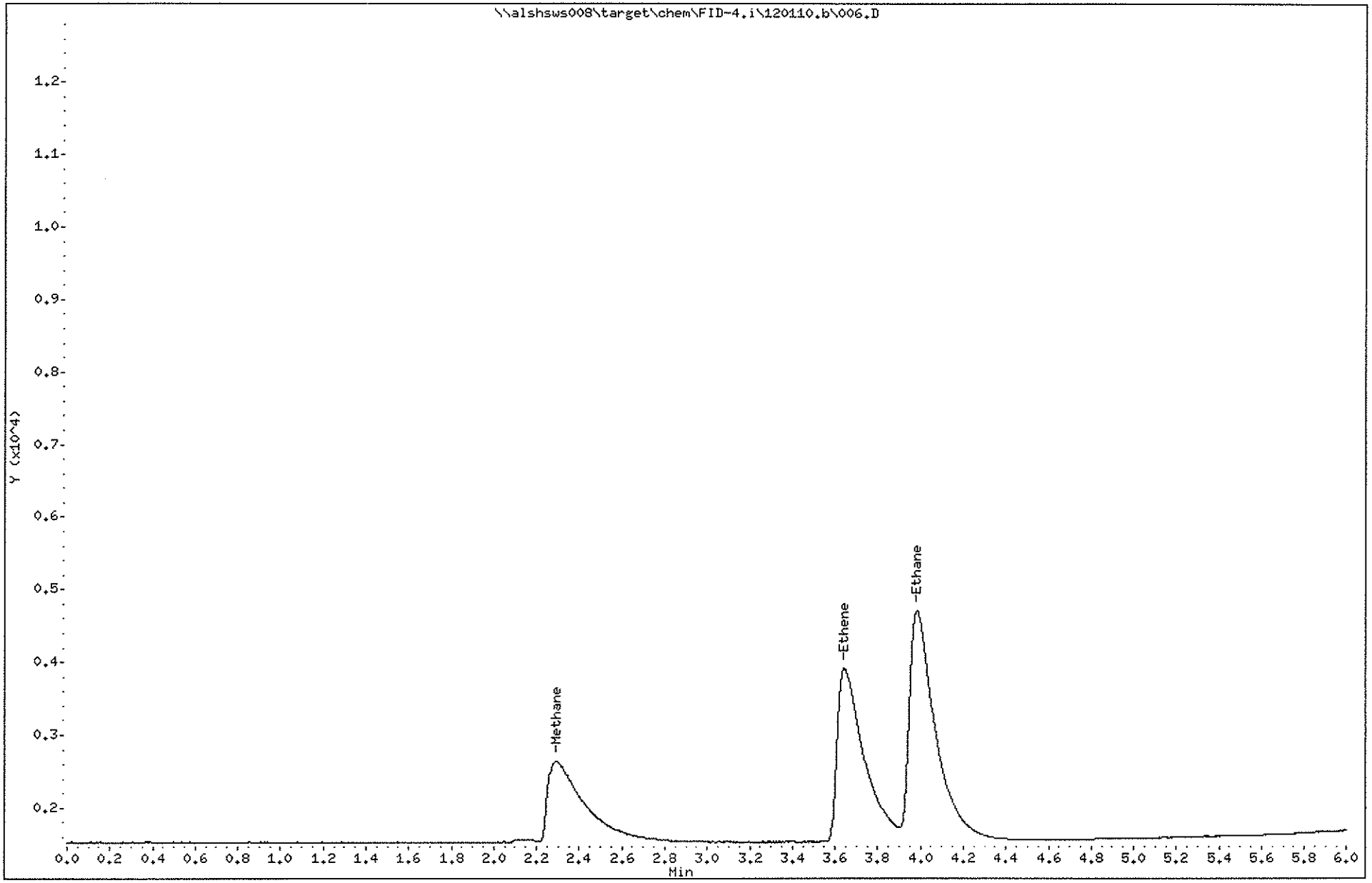
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Date : 10-JAN-2012 12:26
Client ID: ICAL5
Sample Info: ICAL5;ICAL5

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



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Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 10-JAN-2012 12:40
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

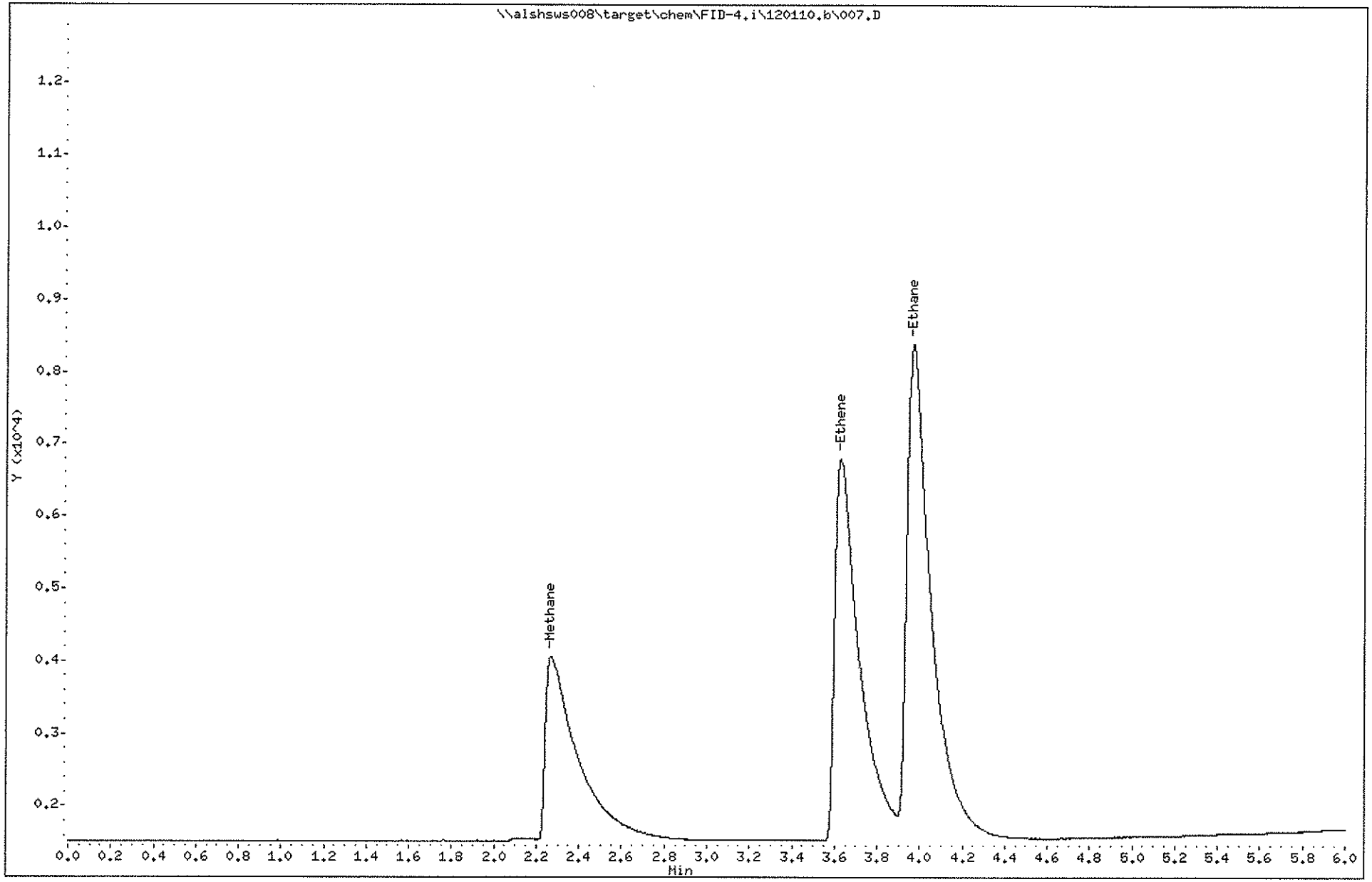
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.266	2.283	-0.017	27301	38.5000	35.296
2 Ethene	3.626	3.643	-0.017	42108	67.4000	64.523
3 Ethane	3.966	3.983	-0.017	54710	72.2000	67.816

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Date : 10-JAN-2012 12:40
Client ID: ICAL6
Sample Info: ICAL6;ICAL6

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Lab Smp Id: ICV
Client Smp ID: ICV
Inj Date : 10-JAN-2012 12:56
Operator : NPI
Inst ID: FID-4.i
Smp Info : ICV;ICV
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown
Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40
Cal File: 007.D
Als bottle: 8
QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon
Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

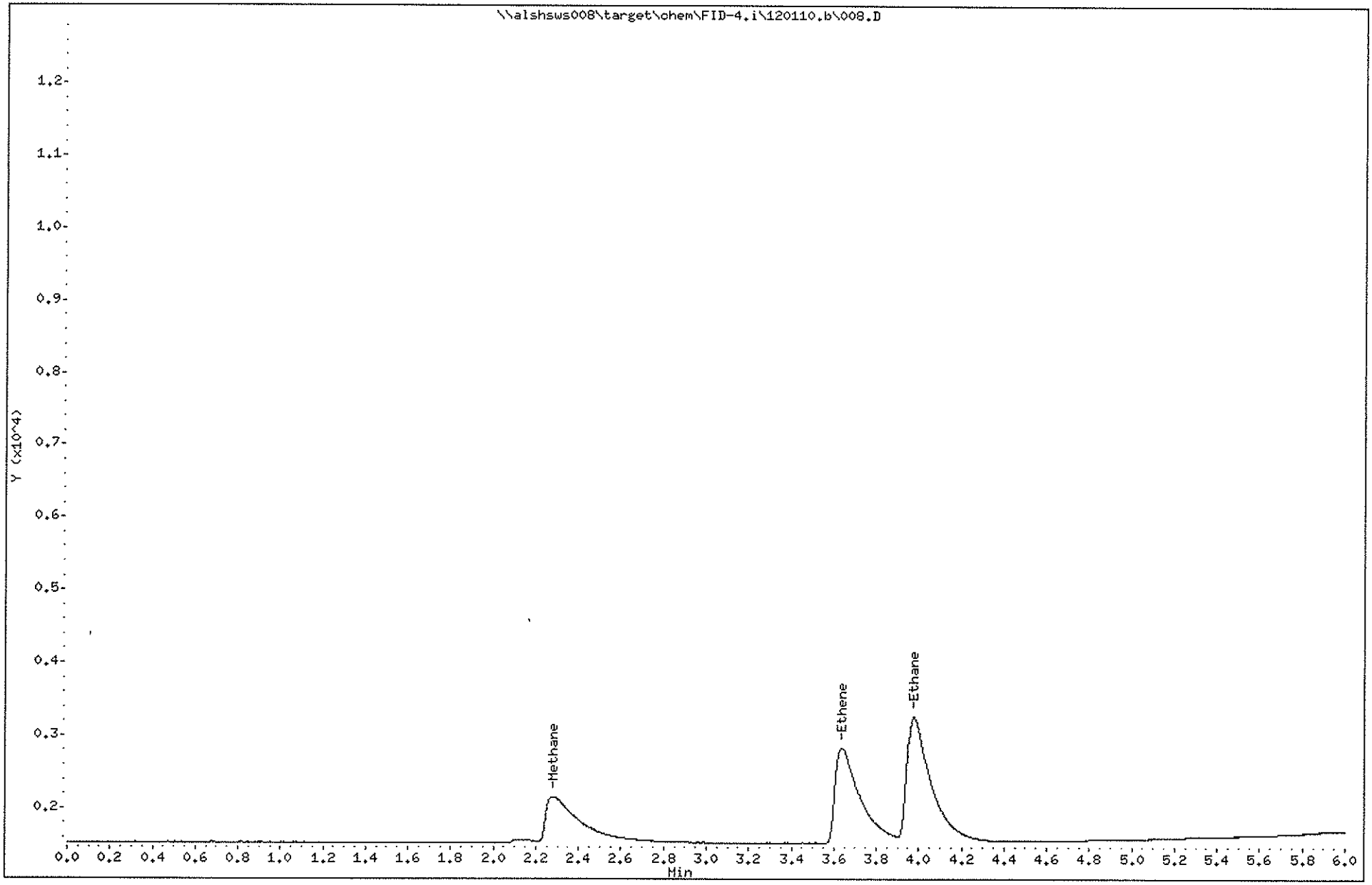
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.283	2.283	0.000	7077	9.14951	9.149
2 Ethene	3.636	3.643	-0.007	10583	16.2166	16.216
3 Ethane	3.976	3.983	-0.007	13863	17.1840	17.184

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Date : 10-JAN-2012 12:56
Client ID: ICV
Sample Info: ICV;ICV

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



FID04-Logbook

Batch: 3160 **Analyst:** Nosa Izekor
Date: 08-Jun-12 **Reviewer:**
Method: RSK 175 **Laboratory:** Houston
Comments: Target Seq 120608

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	06-08-2012 07:46	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	GLCSW1-120608	LCS	06-08-2012 09:41	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	GLCSDW1-120608	LCSD	06-08-2012 09:56	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	GBLKW1-120608	MBLK	06-08-2012 10:05	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	1206076-01C *pH 2*	SAMP	06-08-2012 10:17	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	1206076-02C *pH 2*	SAMP	06-08-2012 10:29	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	1206076-03C *pH 2*	SAMP	06-08-2012 10:40	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	1206076-04C *pH 2*	SAMP	06-08-2012 11:02	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	1206076-05C *pH 2*	SAMP	06-08-2012 11:12	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	1206076-02C *pH 2*	SAMP	06-08-2012 11:23	50.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	1206092-01C *pH 2*	SAMP	06-08-2012 11:33	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1206092-02C *pH 2*	SAMP	06-08-2012 11:43	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1206092-03C *pH 2*	SAMP	06-08-2012 11:53	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1206092-04C *pH 2*	SAMP	06-08-2012 12:05	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1206092-05C *pH 2*	SAMP	06-08-2012 12:18	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1206092-06C *pH 2*	SAMP	06-08-2012 12:28	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	1206092-07C *pH 2*	SAMP	06-08-2012 12:40	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	1206199-01A *pH 2*	SAMP	06-08-2012 12:53	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	1206199-02A *pH 2*	SAMP	06-08-2012 13:04	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA
20	1206199-03A *pH 2*	SAMP	06-08-2012 13:15	1.00	0.00 mL	0.00 mL	020.D	Liquid	☒	NA
21	1206199-04A *pH 2*	SAMP	06-08-2012 13:27	1.00	0.00 mL	0.00 mL	021.D	Liquid	☒	NA
22	CCV	CCV	06-08-2012 13:38	1.00	0.00 mL	0.00 mL	022.D	Liquid	☒	NA
23	1206199-05A *pH 2*	SAMP	06-08-2012 13:48	1.00	0.00 mL	0.00 mL	023.D	Liquid	☒	NA

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FID04-Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
24	1206199-06A *pH 2*	SAMP	06-08-2012 13:59	1.00	0.00 mL	0.00 mL	024.D	Liquid	☒	NA
25	1206211-01B *pH 2*	SAMP	06-08-2012 14:09	1.00	0.00 mL	0.00 mL	025.D	Liquid	☒	NA
26	1206211-02B *pH 2*	SAMP	06-08-2012 14:20	1.00	0.00 mL	0.00 mL	026.D	Liquid	☒	NA
27	1206211-03B *pH 2*	SAMP	06-08-2012 14:30	1.00	0.00 mL	0.00 mL	027.D	Liquid	☒	NA
28	1206211-04B *pH 2*	SAMP	06-08-2012 14:40	1.00	0.00 mL	0.00 mL	028.D	Liquid	☒	NA
29	1206211-05B *pH 2*	SAMP	06-08-2012 14:50	1.00	0.00 mL	0.00 mL	029.D	Liquid	☒	NA
30	1206211-06B *pH 2*	SAMP	06-08-2012 15:00	1.00	0.00 mL	0.00 mL	030.D	Liquid	☒	NA
31	1206181-01B *pH 2*	SAMP	06-08-2012 15:11	1.00	0.00 mL	0.00 mL	031.D	Liquid	☒	NA
32	1206182-01B *pH 2*	SAMP	06-08-2012 15:21	1.00	0.00 mL	0.00 mL	032.D	Liquid	☒	NA
33	1206199-04A *pH 2*	SAMP	06-08-2012 15:32	2.00	0.00 mL	0.00 mL	033.D	Liquid	☒	NA
34	1206211-01B *pH 2*	SAMP	06-08-2012 15:42	10.00	0.00 mL	0.00 mL	034.D	Liquid	☒	NA
35	1206211-02B *pH 2*	SAMP	06-08-2012 15:53	5.00	0.00 mL	0.00 mL	035.D	Liquid	☒	NA
36	1206211-03B *pH 2*	SAMP	06-08-2012 16:03	5.00	0.00 mL	0.00 mL	036.D	Liquid	☒	NA
37	1206211-04B *pH 2*	SAMP	06-08-2012 16:14	5.00	0.00 mL	0.00 mL	037.D	Liquid	☒	NA
38	1206211-05B *pH 2*	SAMP	06-08-2012 16:25	10.00	0.00 mL	0.00 mL	038.D	Liquid	☒	NA
39	1206211-06B *pH 2*	SAMP	06-08-2012 16:35	5.00	0.00 mL	0.00 mL	039.D	Liquid	☒	NA
40	1206181-01B *pH 2*	SAMP	06-08-2012 16:46	2.00	0.00 mL	0.00 mL	040.D	Liquid	☒	NA
41	1206199-01AMS *pH 2*	MS	06-08-2012 16:57	1.00	0.00 mL	0.00 mL	041.D	Liquid	☒	NA
42	1206199-01AMSD *pH 2*	MSD	06-08-2012 17:07	1.00	0.00 mL	0.00 mL	042.D	Liquid	☒	NA
43	CCV	CCV	06-08-2012 17:18	1.00	0.00 mL	0.00 mL	043.D	Liquid	☒	NA

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FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Instrument ID: FID-4 Calibration Date: 06/08/12 Time: 0746

Lab File ID: 001 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	899.584	0.01	16.3	25.0
Ethane	806.737	621.667	0.01	22.9	25.0
Ethene	652.603	491.548	0.01	24.7	25.0

FORM VII GASES

FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Instrument ID: FID-4 Calibration Date: 06/08/12 Time: 1338

Lab File ID: 022 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	725.676	0.01	6.2	25.0
Ethane	806.737	763.500	0.01	5.4	25.0
Ethene	652.603	617.560	0.01	5.4	25.0

FORM VII GASES

FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1206199

Instrument ID: FID-4 Calibration Date: 06/08/12 Time: 1718

Lab File ID: 043 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	657.172	0.01	15.0	25.0
Ethane	806.737	743.556	0.01	7.8	25.0
Ethene	652.603	562.798	0.01	13.8	25.0

FORM VII GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\001.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-JUN-2012 07:46
Operator : NPI Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP158

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.206	2.183	0.023	8654	9.62000	11.188
2 Ethene	3.533	3.520	0.013	8258	16.8000	12.653(M)
3 Ethane	3.870	3.853	0.017	11190	18.0000	13.870(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\001.D

Date : 08-JUN-2012 07:46

Client ID: CCV

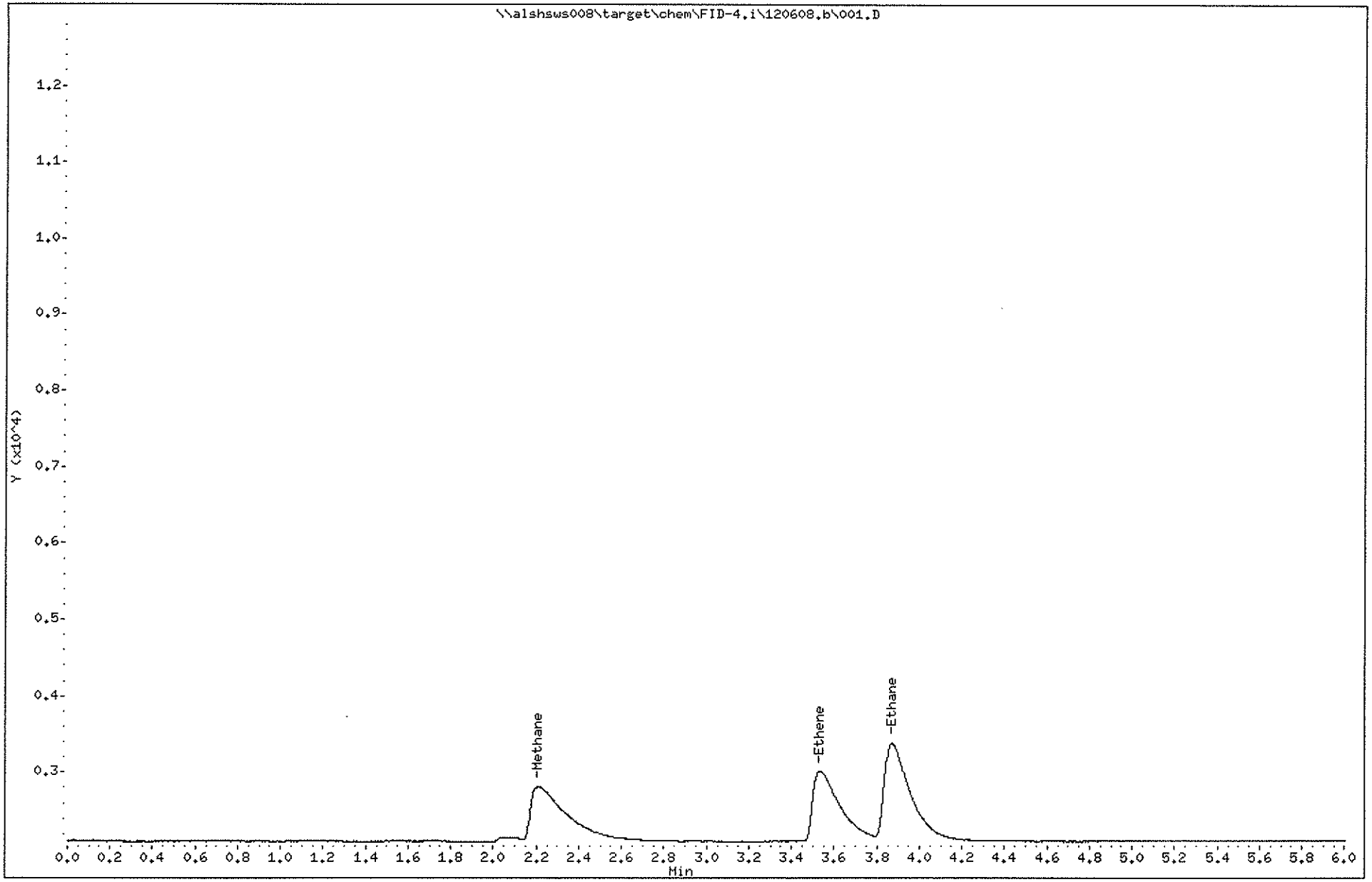
Sample Info: CCV;CCV;2;4

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\002.D
Lab Smp Id: GLCSW1-120608 Client Smp ID: GLCSW1-120608
Inj Date : 08-JUN-2012 09:41
Operator : NPI Inst ID: FID-4.i
Smp Info : GLCSW1-120608;GLCSW1-120608;3;;LCS
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.183	2.183	0.000	6502	8.40612	8.406(M)
2 Ethene	3.506	3.520	-0.014	9553	14.6383	14.638(M)
3 Ethane	3.843	3.853	-0.010	11659	14.4520	14.452(M)

QC Flag Legend

M - Compound response manually integrated.

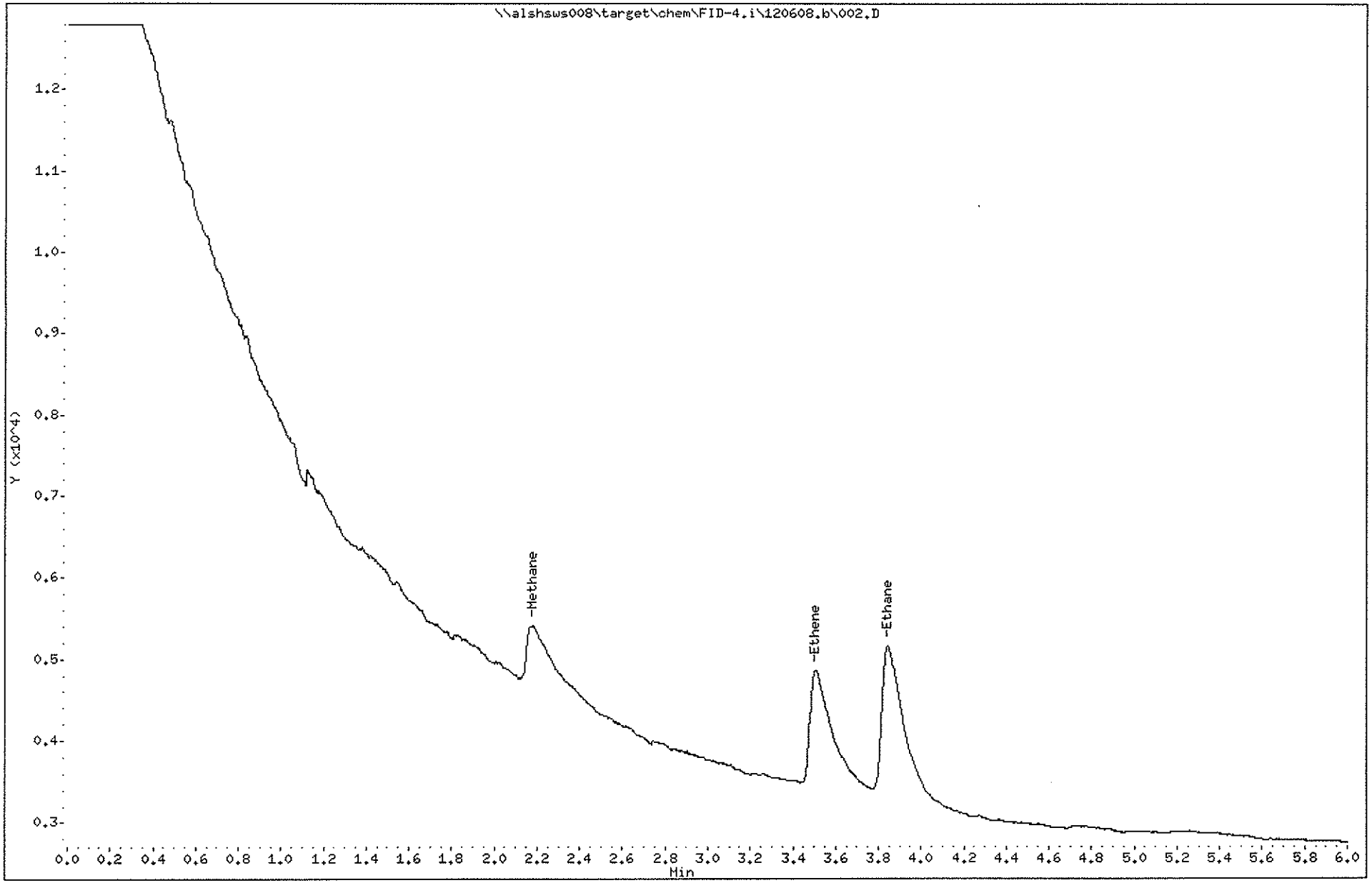
Data File: \\alshsws008\target\chem\FID-4.i\120608.b\002.D
Date : 08-JUN-2012 09:41
Client ID: GLCSW1-120608
Sample Info: GLCSW1-120608;GLCSW1-120608;3;;LCS

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\003.D
Lab Smp Id: GLCSDW1-120608 Client Smp ID: GLCSDW1-120608
Inj Date : 08-JUN-2012 09:56
Operator : NPI Inst ID: FID-4.i
Smp Info : GLCSDW1-120608;GLCSDW1-120608;3;;LCSD
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

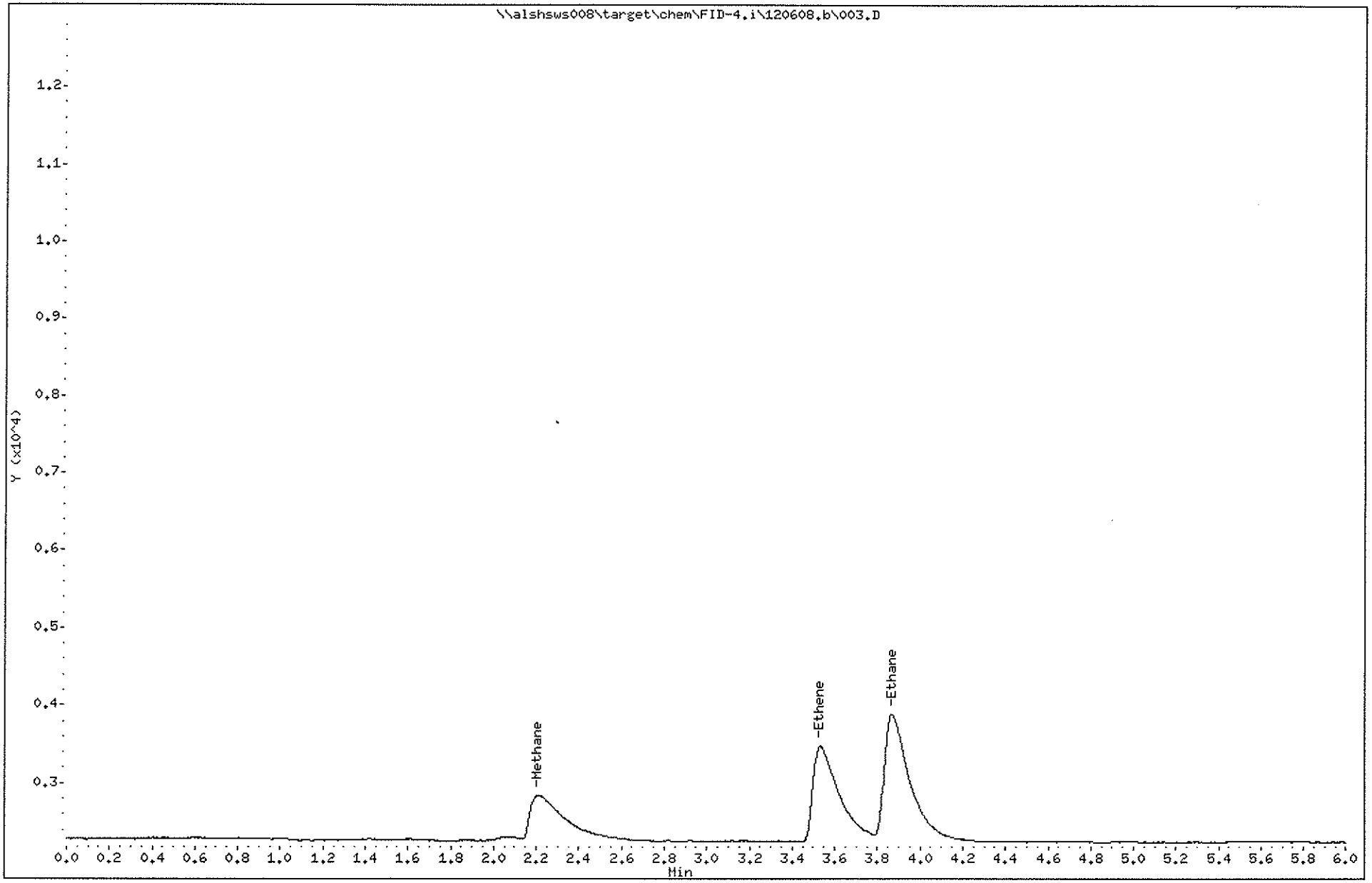
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.206	2.183	0.023	6748	8.72416	8.724
2 Ethene	3.530	3.520	0.010	10502	16.0925	16.092
3 Ethane	3.866	3.853	0.013	13865	17.1865	17.186

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\003.D
Date : 08-JUN-2012 09:56
Client ID: GLCSDW1-120608
Sample Info: GLCSDW1-120608;GLCSDW1-120608;3;;LCSD

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\004.D
Lab Smp Id: GBLKW1-120608 Client Smp ID: GBLKW1-120608
Inj Date : 08-JUN-2012 10:05
Operator : NPI Inst ID: FID-4.i
Smp Info : GBLKW1-120608;GBLKW1-120608;3;;BLANK
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

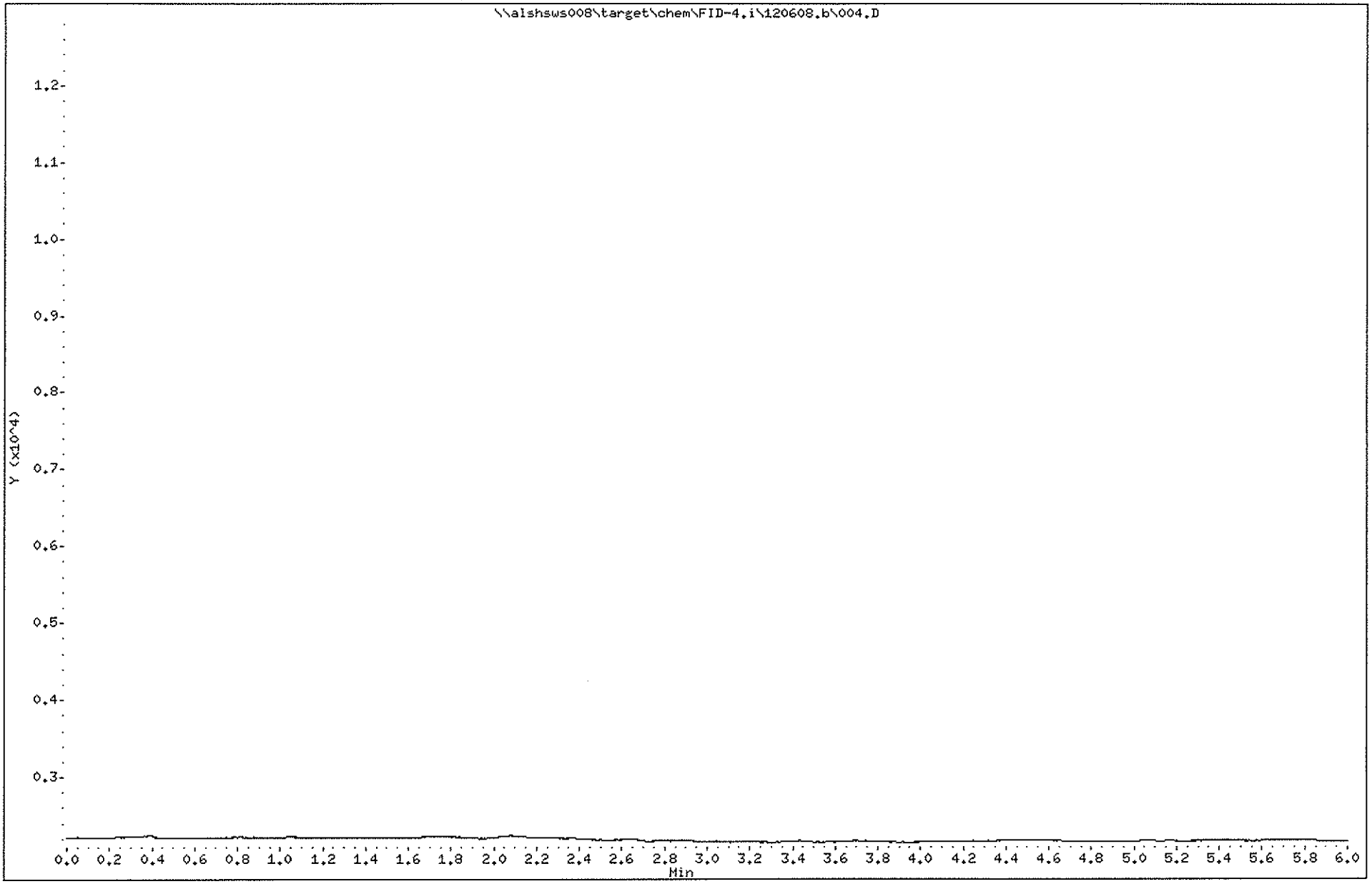
Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\004.D
Date : 08-JUN-2012 10:05
Client ID: GBLKW1-120608
Sample Info: GBLKW1-120608;GBLKW1-120608;3;;BLANK

Instrument: FID-4.i
Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

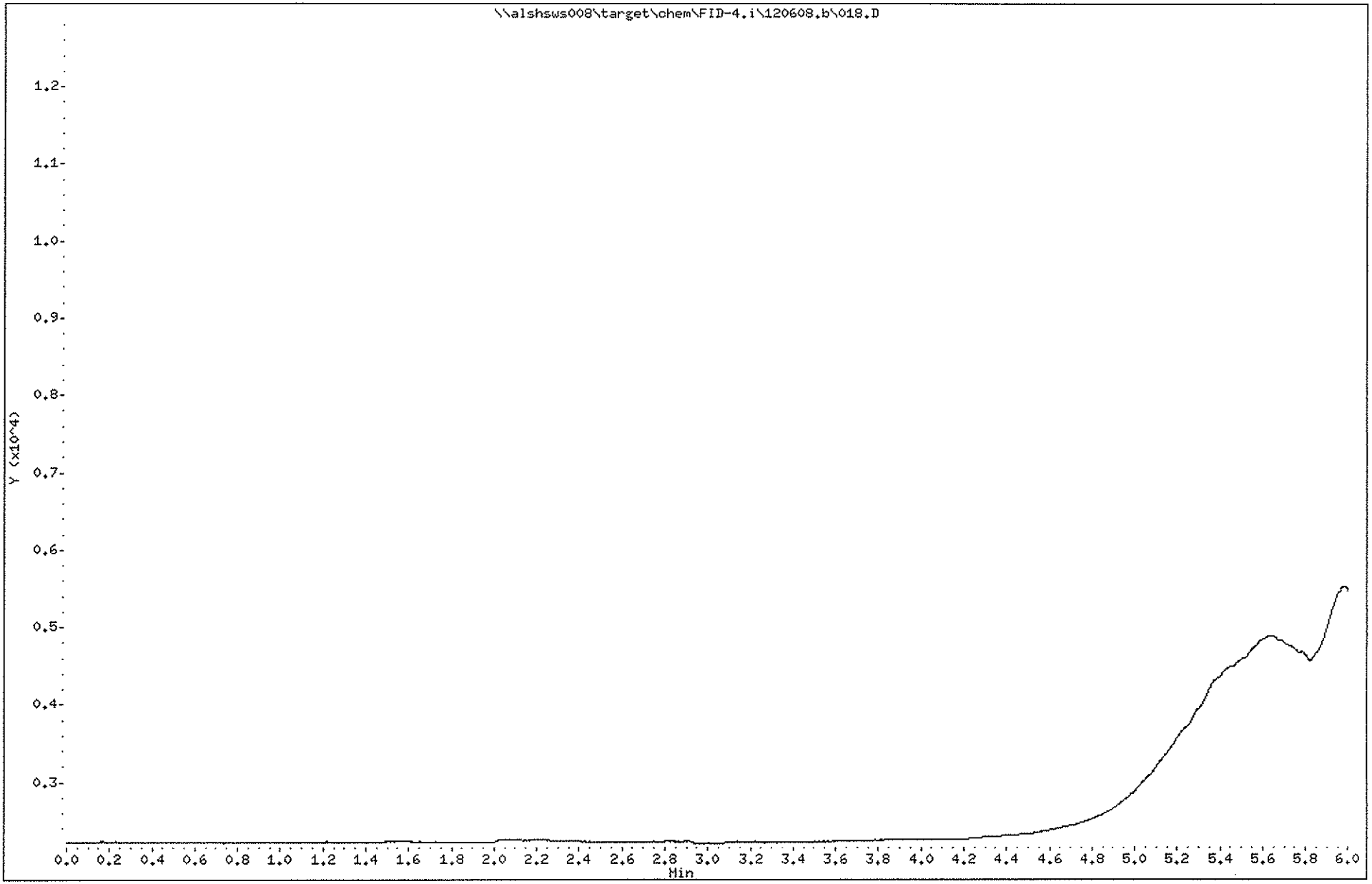
Data file : \\alshsws008\target\chem\FID-4.i\120608.b\018.D
Lab Smp Id: 1206199-01A Client Smp ID: 1206199-01A
Inj Date : 08-JUN-2012 12:53
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-01A;1206199-01A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\018.D
Date : 08-JUN-2012 12:53
Client ID: 1206199-01A
Sample Info: 1206199-01A;1206199-01A;;;

Instrument: FID-4.i
Operator: NPI
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\019.D
Lab Smp Id: 1206199-02A Client Smp ID: 1206199-02A
Inj Date : 08-JUN-2012 13:04
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-02A;1206199-02A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.166	2.183	-0.017	140	0.18100	0.180(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

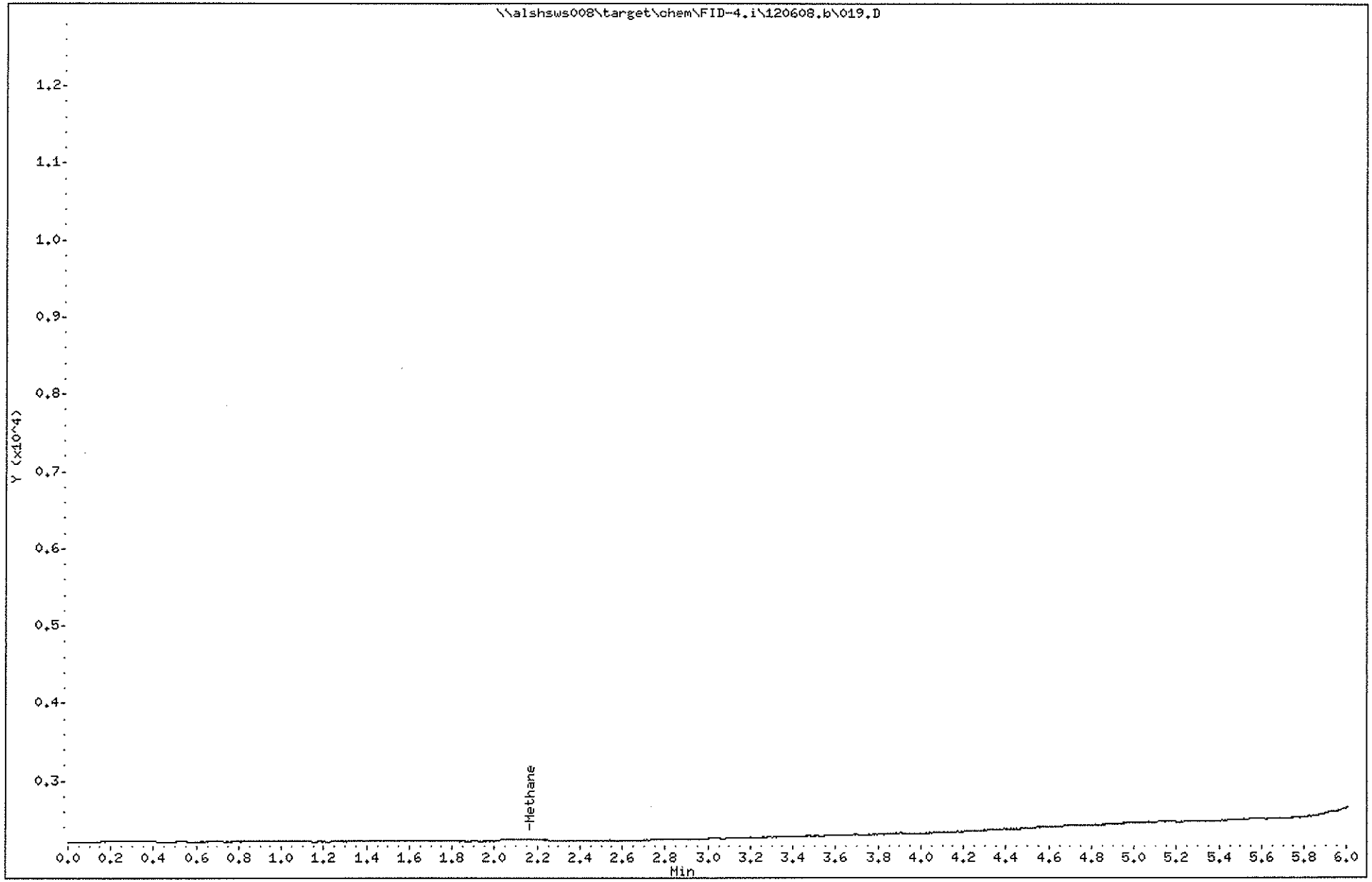
Data File: \\alshsws008\target\chem\FID-4.i\120608.b\019.D
Date : 08-JUN-2012 13:04
Client ID: 1206199-02A
Sample Info: 1206199-02A;1206199-02A;;;

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\020.D
Lab Smp Id: 1206199-03A Client Smp ID: 1206199-03A
Inj Date : 08-JUN-2012 13:15
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-03A;1206199-03A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.183	2.183	0.000	269	0.34778	0.347(a)

QC Flag Legend

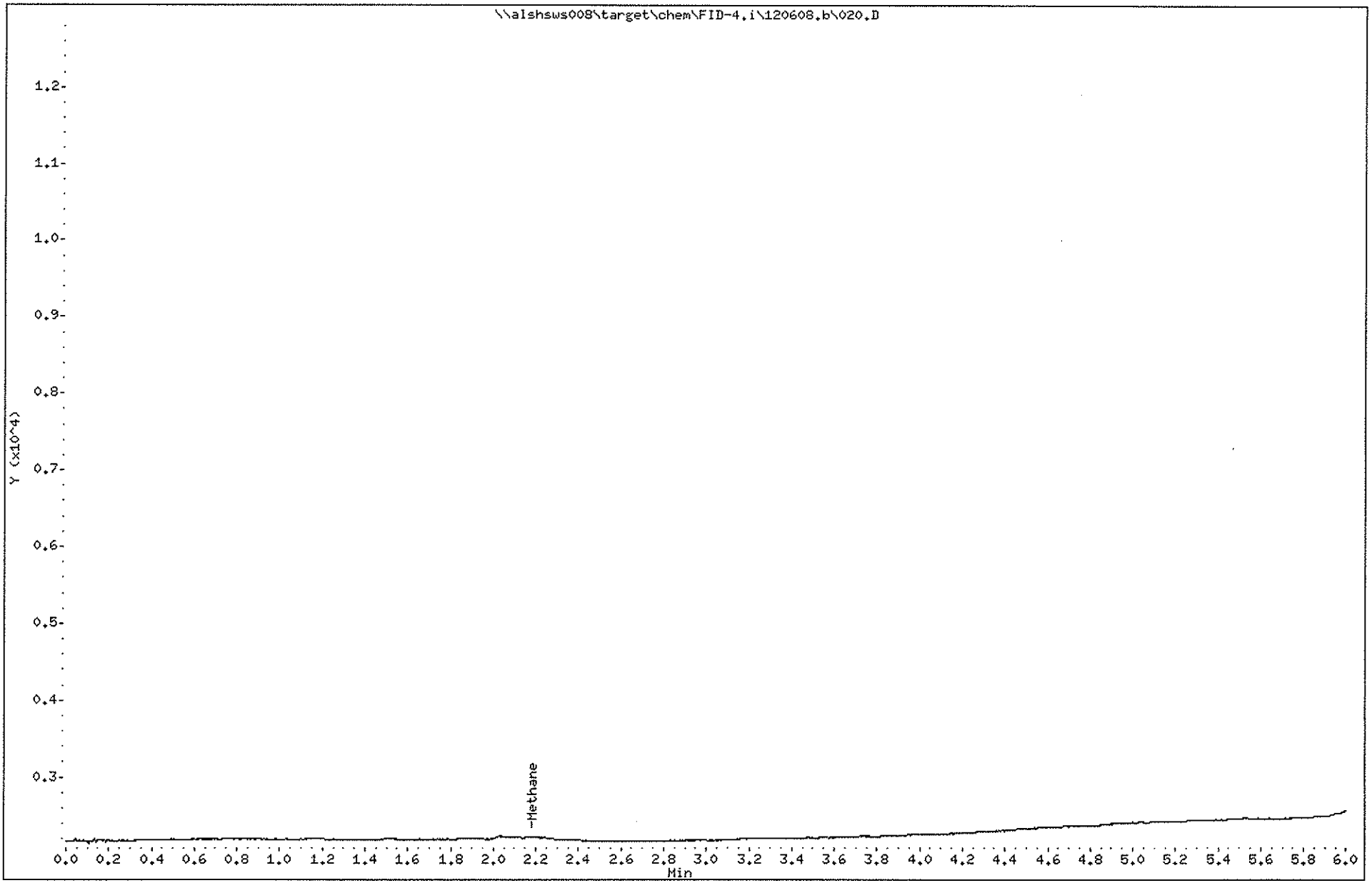
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\020.D
Date : 08-JUN-2012 13:15
Client ID: 1206199-03A
Sample Info: 1206199-03A;1206199-03A;;;

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\021.D
Lab Smp Id: 1206199-04A Client Smp ID: 1206199-04A
Inj Date : 08-JUN-2012 13:27
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-04A;1206199-04A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.213	2.183	0.030	43325	56.0128	56.012(A)
2 Ethene	3.530	3.520	0.010	426	0.65277	0.652(a)
3 Ethane	3.860	3.853	0.007	1290	1.59903	1.599(M)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

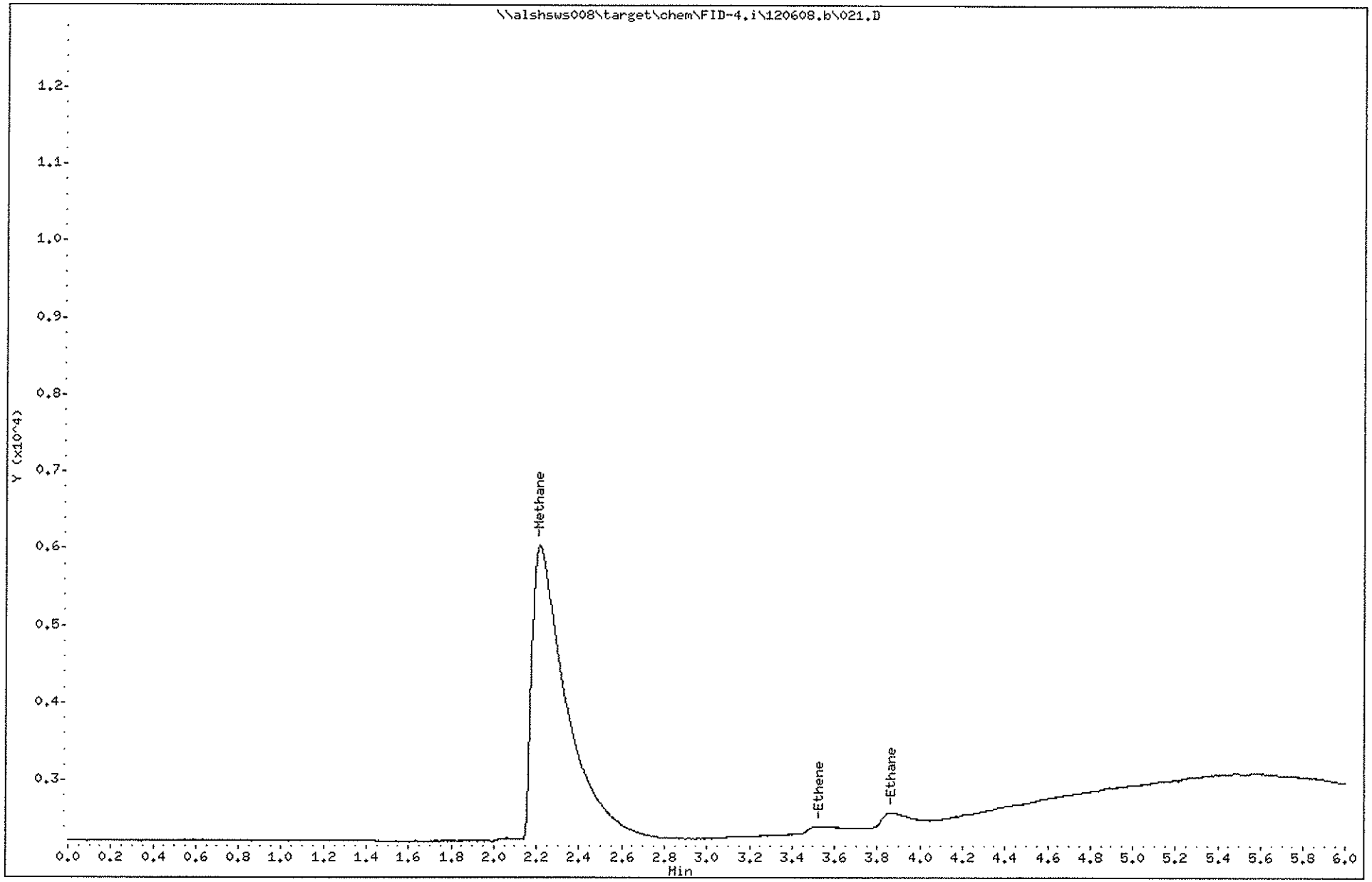
Data File: \\alshsws008\target\chem\FID-4.i\120608.b\021.D
Date : 08-JUN-2012 13:27
Client ID: 1206199-04A
Sample Info: 1206199-04A;1206199-04A;;;

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\022.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-JUN-2012 13:38
Operator : NPI Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 22 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

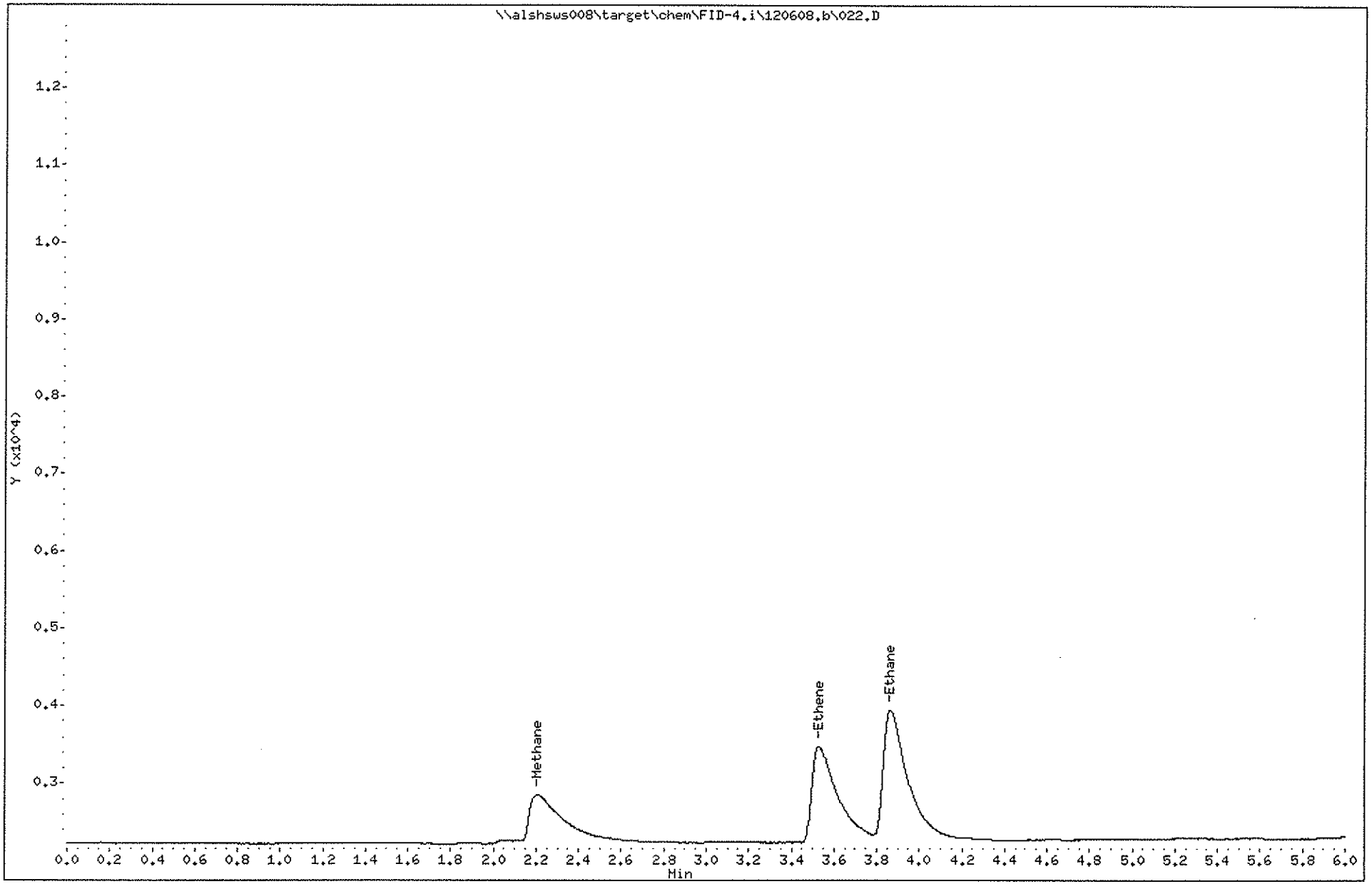
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.206	2.183	0.023	6981	9.62000	9.025
2 Ethene	3.530	3.520	0.010	10375	16.8000	15.897
3 Ethane	3.863	3.853	0.010	13743	18.0000	17.035

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\022.D
Date : 08-JUN-2012 13:38
Client ID: CCV
Sample Info: CCV;CCV;2;4

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

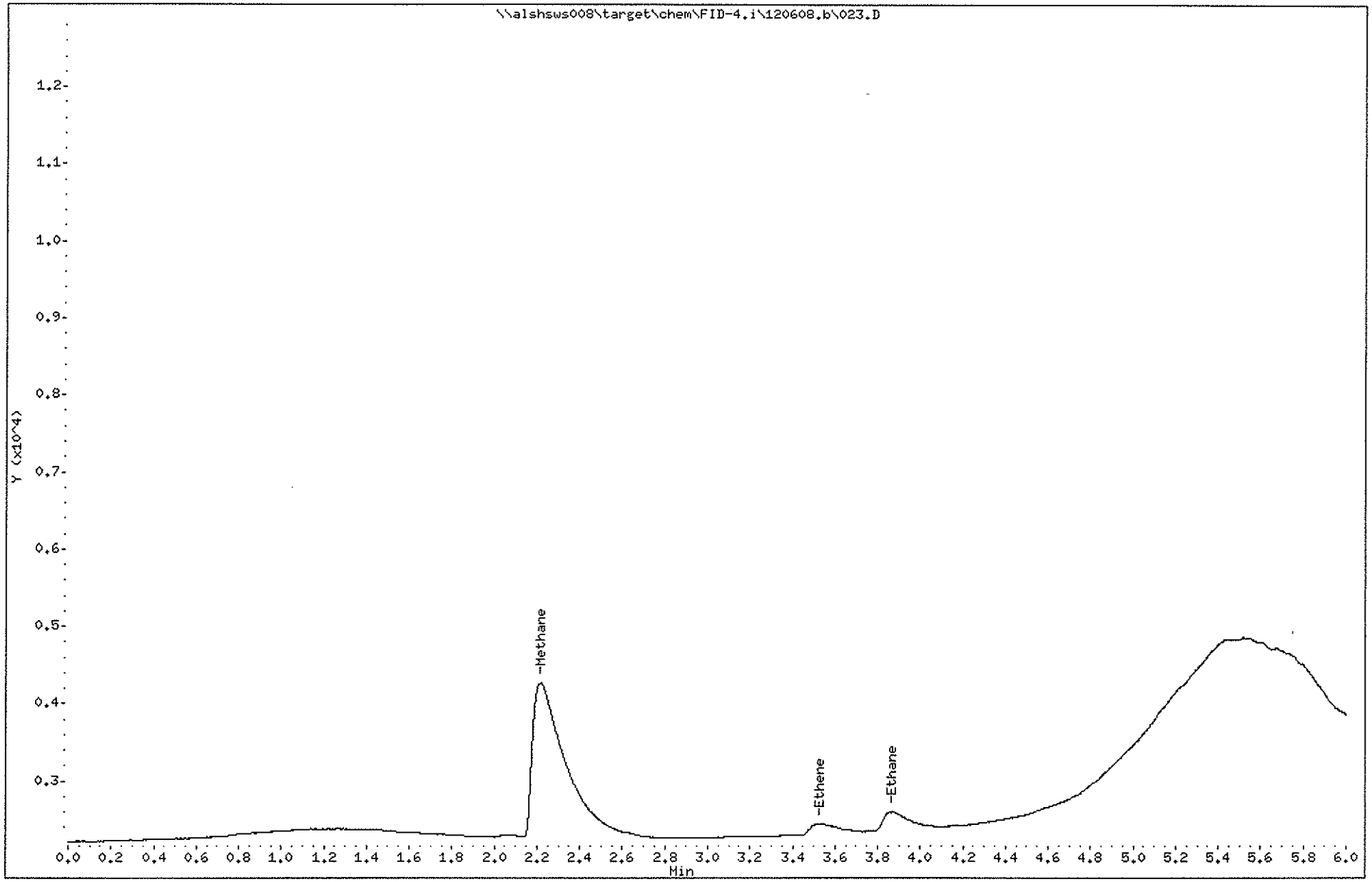
Data file : \\alshsws008\target\chem\FID-4.i\120608.b\023.D
Lab Smp Id: 1206199-05A Client Smp ID: 1206199-05A
Inj Date : 08-JUN-2012 13:48
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-05A;1206199-05A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 23
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.216	2.183	0.033	21927	28.3484	28.348
2 Ethene	3.530	3.520	0.010	1197	1.83419	1.834
3 Ethane	3.870	3.853	0.017	1864	2.31054	2.310

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\023.D
Date : 08-JUN-2012 13:48
Client ID: 1206199-05A
Sample Info: 1206199-05A;1206199-05A;;;

Instrument: FID-4.i
Operator: NPI
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\024.D
Lab Smp Id: 1206199-06A Client Smp ID: 1206199-06A
Inj Date : 08-JUN-2012 13:59
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-06A;1206199-06A;;;
Misc Info : 1206199;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 24
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.213	2.183	0.030	9404	12.1580	12.157
2 Ethene	3.533	3.520	0.013	537	0.82286	0.822(aM)
3 Ethane	3.860	3.853	0.007	645	0.79952	0.799(aM)

QC Flag Legend

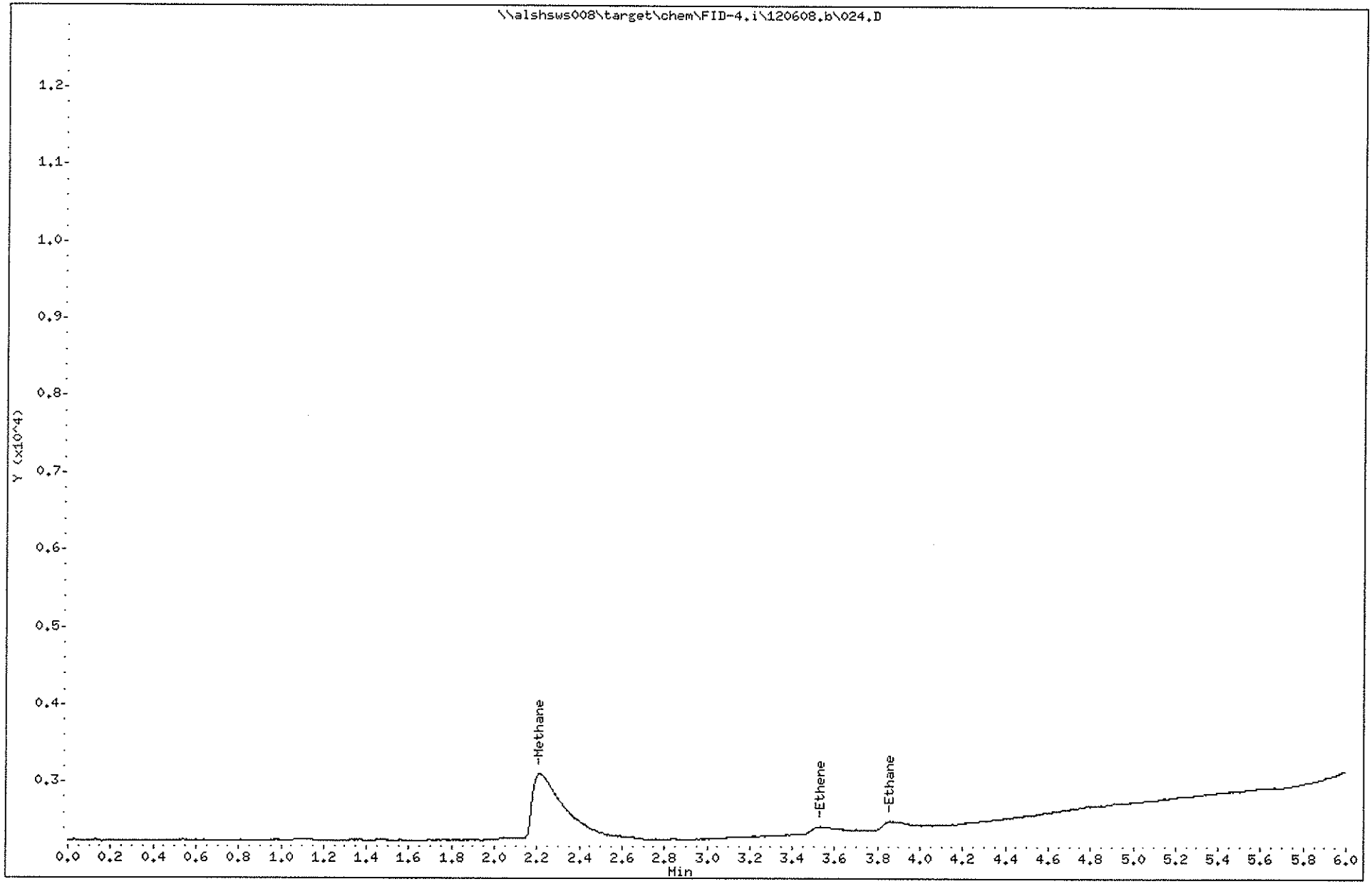
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\024.D
Date : 08-JUN-2012 13:59
Client ID: 1206199-06A
Sample Info: 1206199-06A;1206199-06A;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\033.D
Lab Smp Id: 1206199-04A Client Smp ID: 1206199-04A
Inj Date : 08-JUN-2012 15:32
Operator : JA Inst ID: FID-4.i
Smp Info : 1206199-04A;1206199-04A;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 33
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.210	2.183	0.027	22689	29.3335	58.667
2 Ethene	3.523	3.520	0.003	194	0.29727	0.594(aM)
3 Ethane	3.860	3.853	0.007	688	0.85282	1.705(aM)

QC Flag Legend

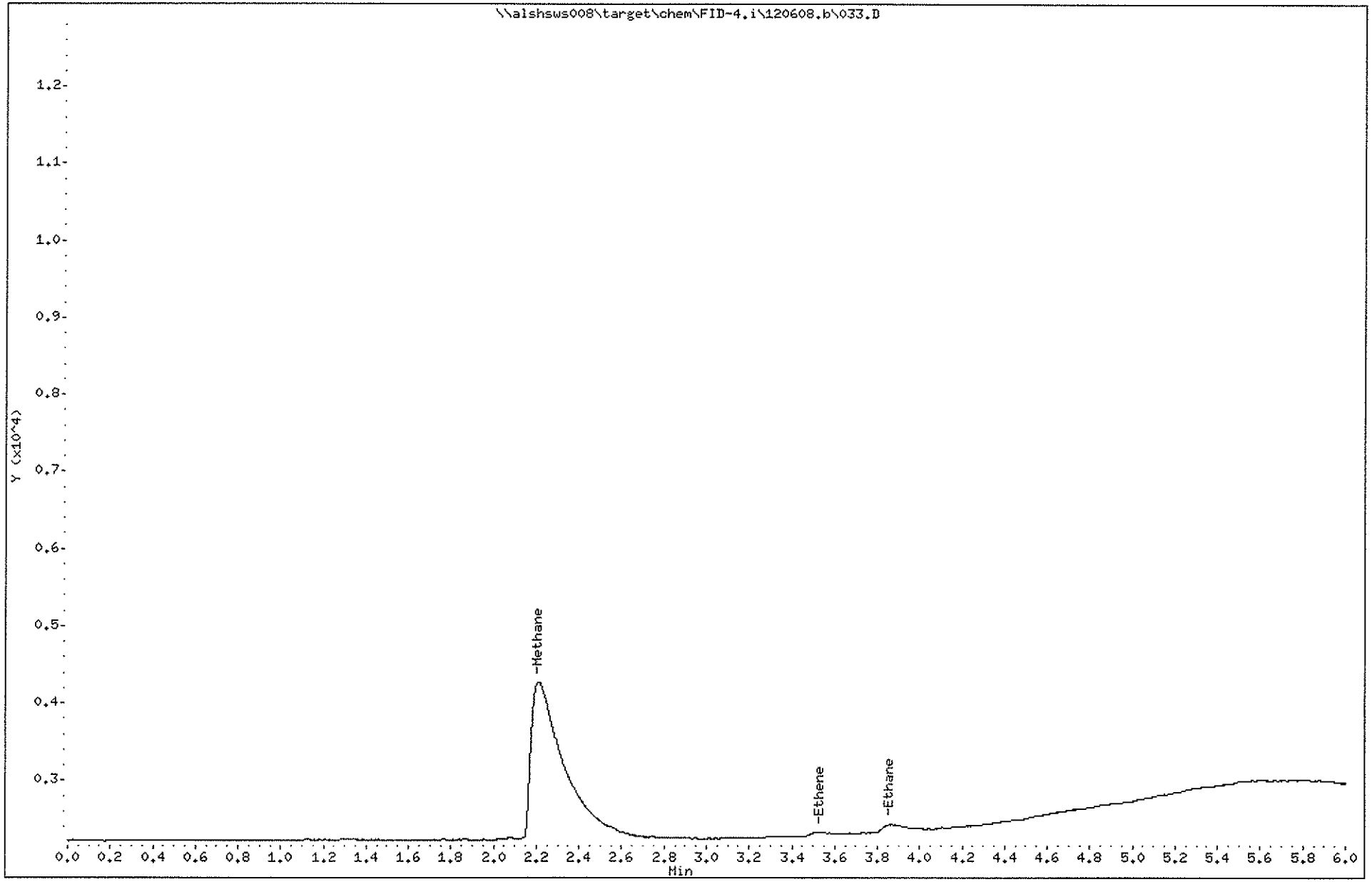
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\033.D
Date : 08-JUN-2012 15:32
Client ID: 1206199-04A
Sample Info: 1206199-04A;1206199-04A;;;

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\041.D
Lab Smp Id: 1206199-01AMS Client Smp ID: 1206199-01AMS
Inj Date : 08-JUN-2012 16:57
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-01AMS;1206199-01AMS;3;;MS
Misc Info : 1206199;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 41 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

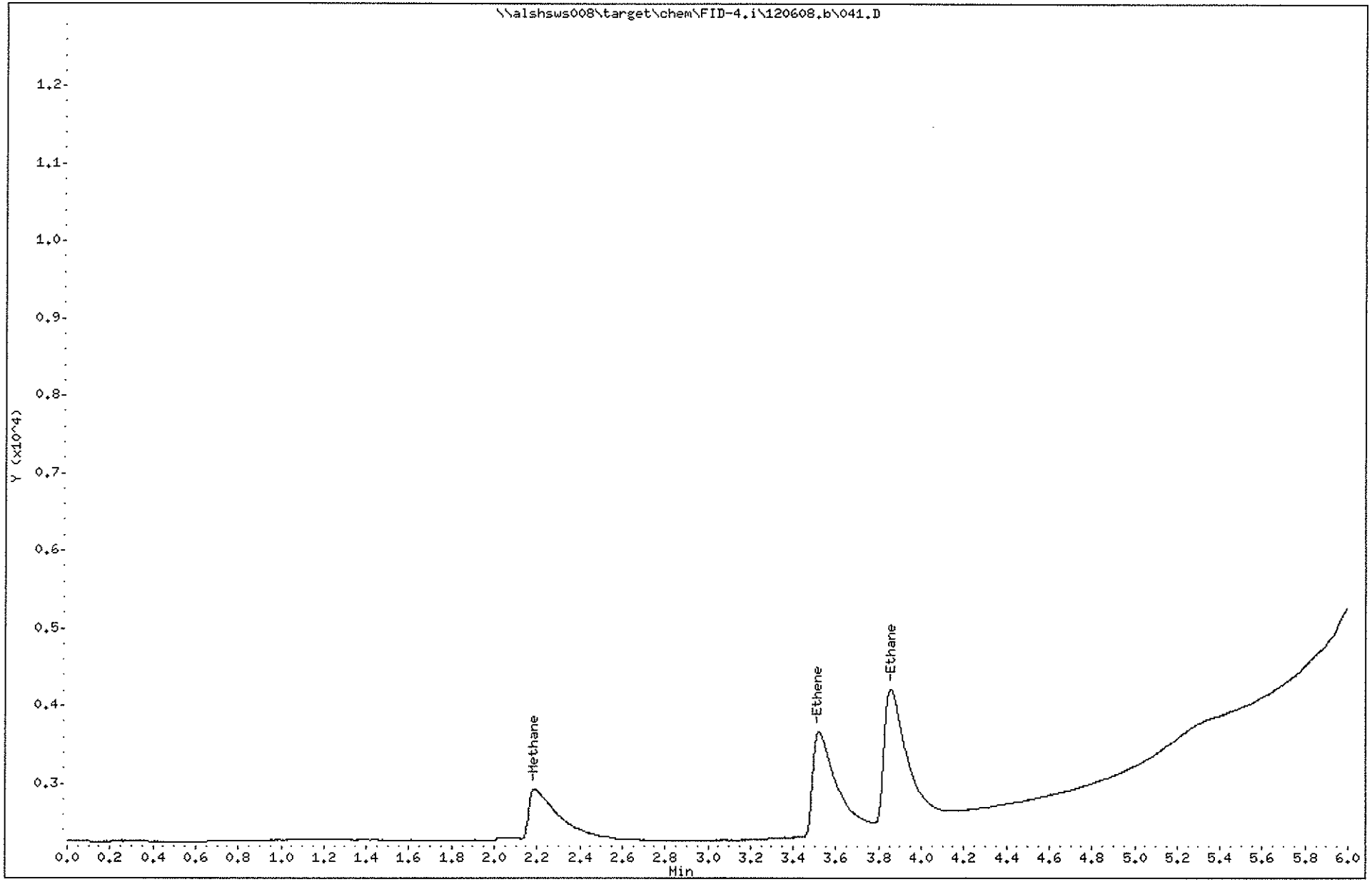
Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.186	2.183	0.003	6605	8.53928	8.539
2 Ethene	3.516	3.520	-0.004	10165	15.5761	15.576
3 Ethane	3.856	3.853	0.003	15116	18.7372	18.737

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\041.D
Date : 08-JUN-2012 16:57
Client ID: 1206199-01AMS
Sample Info: 1206199-01AMS;1206199-01AMS;3;;MS

Instrument: FID-4.i
Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\042.D
Lab Smp Id: 1206199-01AMSD Client Smp ID: 1206199-01AMSD
Inj Date : 08-JUN-2012 17:07
Operator : NPI Inst ID: FID-4.i
Smp Info : 1206199-01AMSD;1206199-01AMSD;3;;MSD
Misc Info : 1206199;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120608.b\rsk175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 42 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

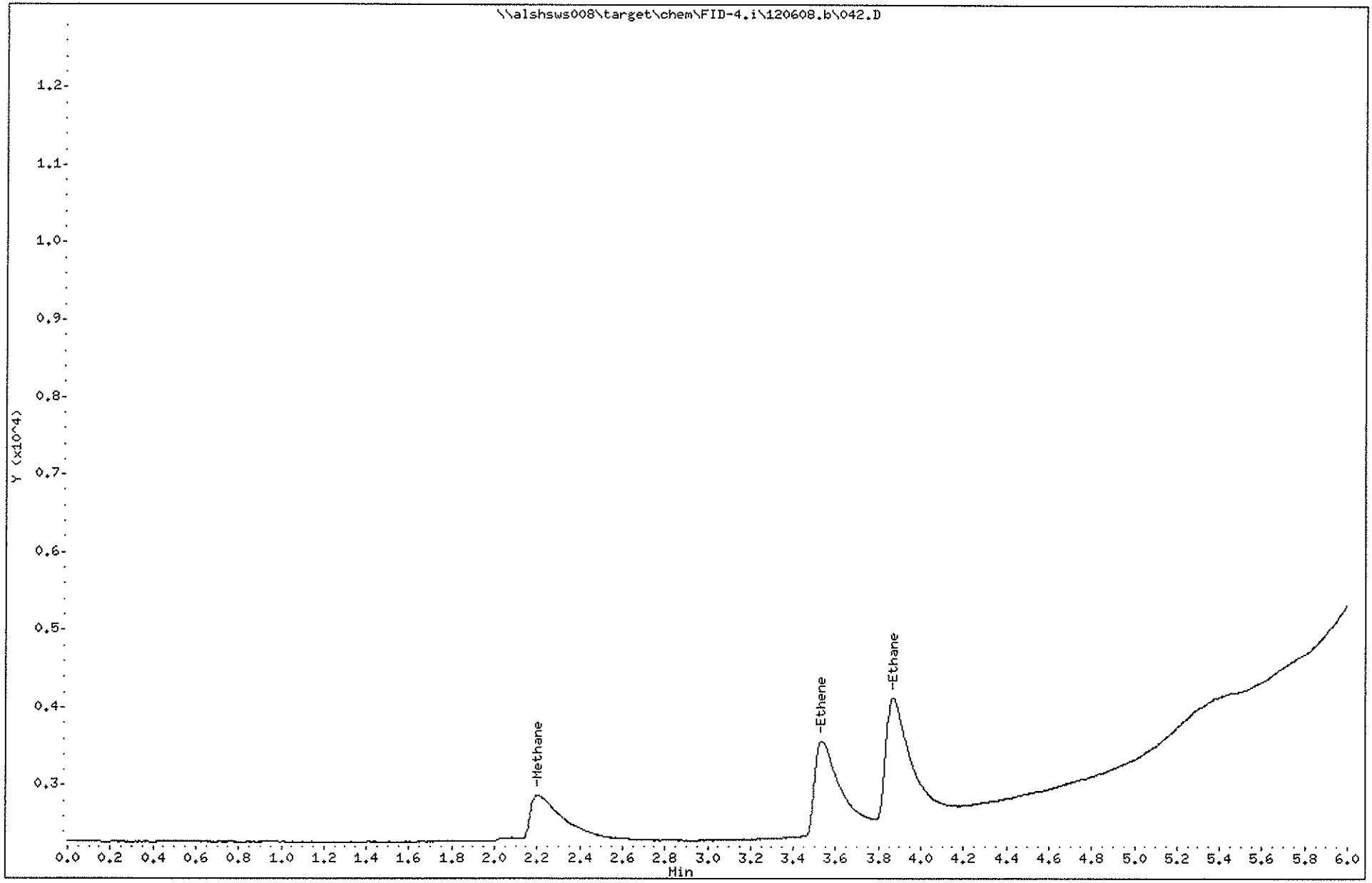
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.206	2.183	0.023	6313	8.16177	8.161
2 Ethene	3.533	3.520	0.013	9502	14.5602	14.560
3 Ethane	3.870	3.853	0.017	14557	18.0443	18.044

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\042.D
Date : 08-JUN-2012 17:07
Client ID: 1206199-01AMSD
Sample Info: 1206199-01AMSD;1206199-01AMSD;3;;MSD

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120608.b\043.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 08-JUN-2012 17:18
Operator : NPI Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120608.b\RSK175.m
Meth Date : 08-Jun-2012 17:25 Grace.Kama Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 43 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

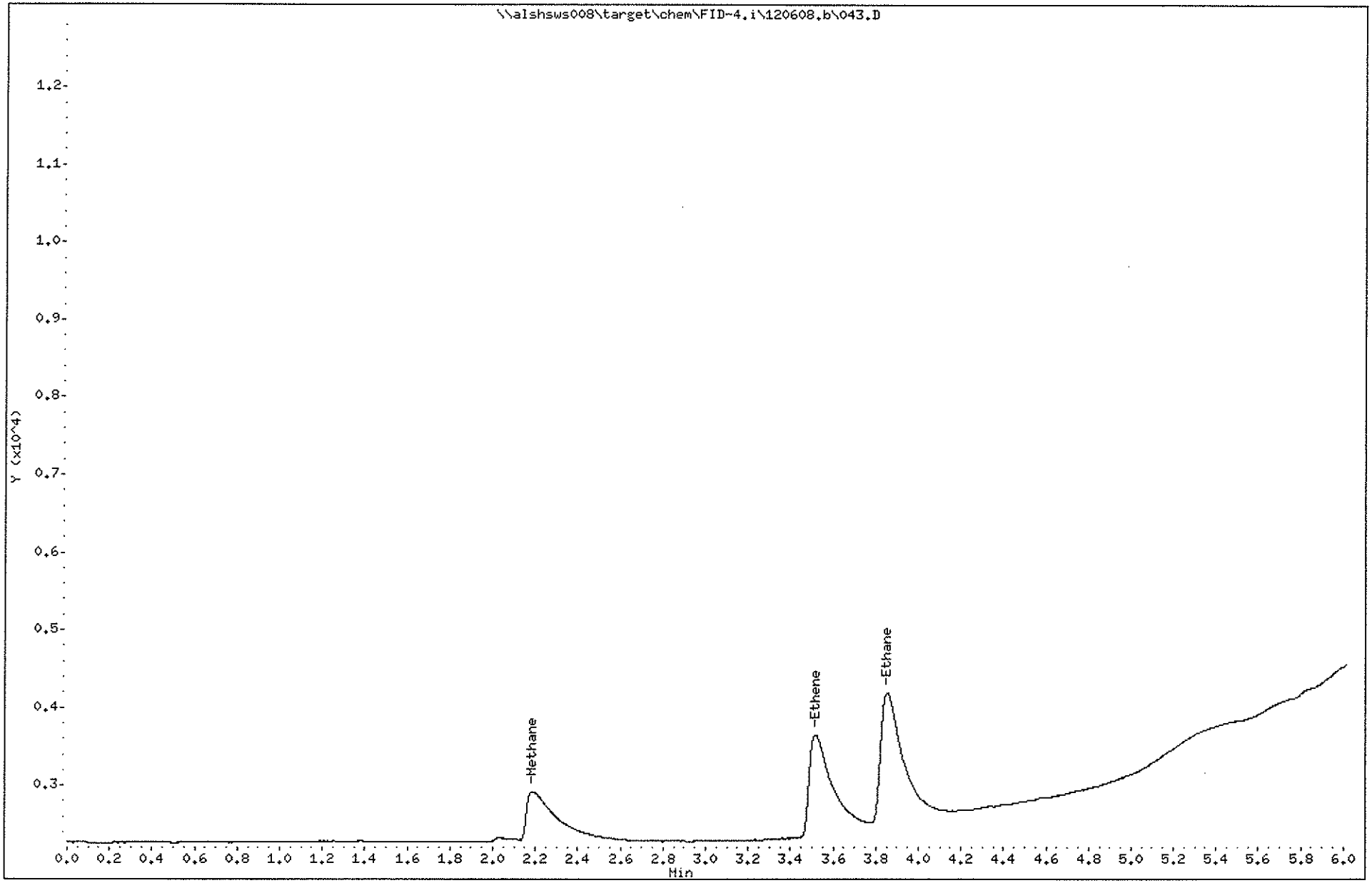
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.183	2.183	0.000	6322	9.62000	8.173
2 Ethene	3.520	3.520	0.000	9455	16.8000	14.488
3 Ethane	3.853	3.853	0.000	13384	18.0000	16.590

Data File: \\alshsws008\target\chem\FID-4.i\120608.b\043.D
Date : 08-JUN-2012 17:18
Client ID: CCV
Sample Info: CCV;CCV;2;4

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

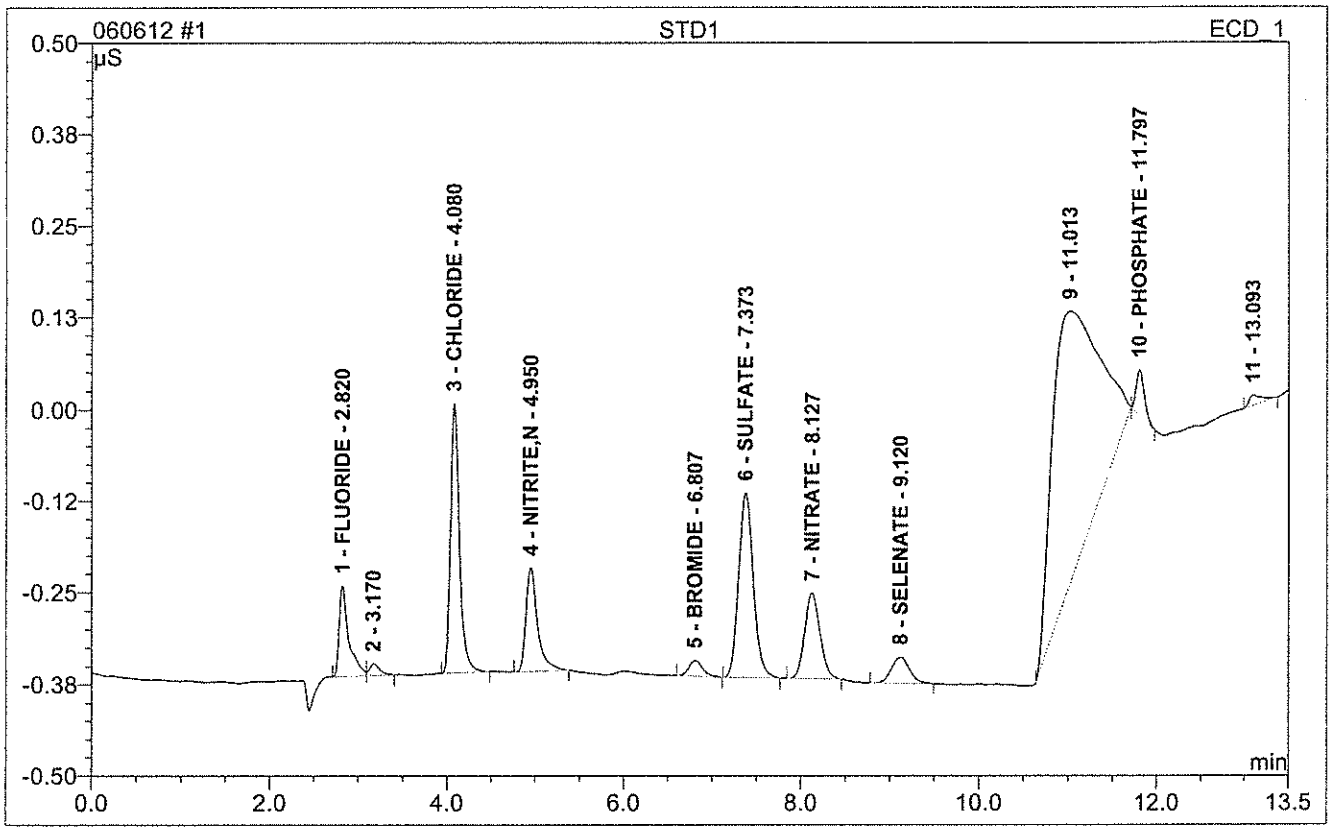


Wet Chemistry Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1206199

1 STD1

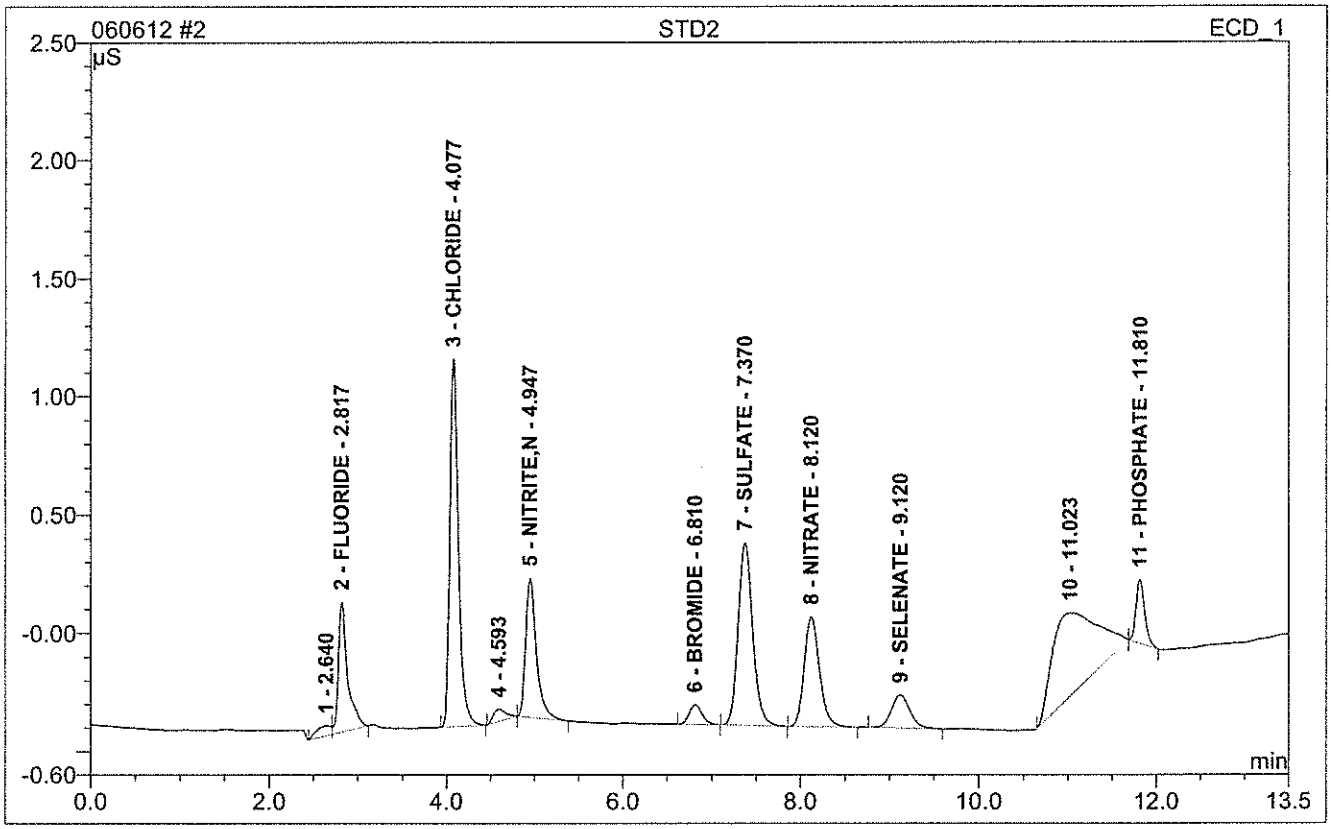
Sample Name:	**STD1**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 13:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.82	FLUORIDE	0.123	0.015	3.91	0.100	1.
3	4.08	CHLORIDE	0.368	0.043	10.86	0.477	1.
4	4.95	NITRITE,N	0.141	0.021	5.41	0.092	1.
5	6.81	BROMIDE	0.021	0.004	0.99	0.101	1.
6	7.37	SULFATE	0.252	0.049	12.28	0.629	1.
7	8.13	NITRATE	0.116	0.023	5.89	0.097	1.
8	9.12	SELENATE	0.035	0.008	2.12	0.094	1.
10	11.80	PHOSPHATE	0.062	0.007	1.73	0.078	1.
Total:			1.119	0.171	43.20	1.668	

2 STD2

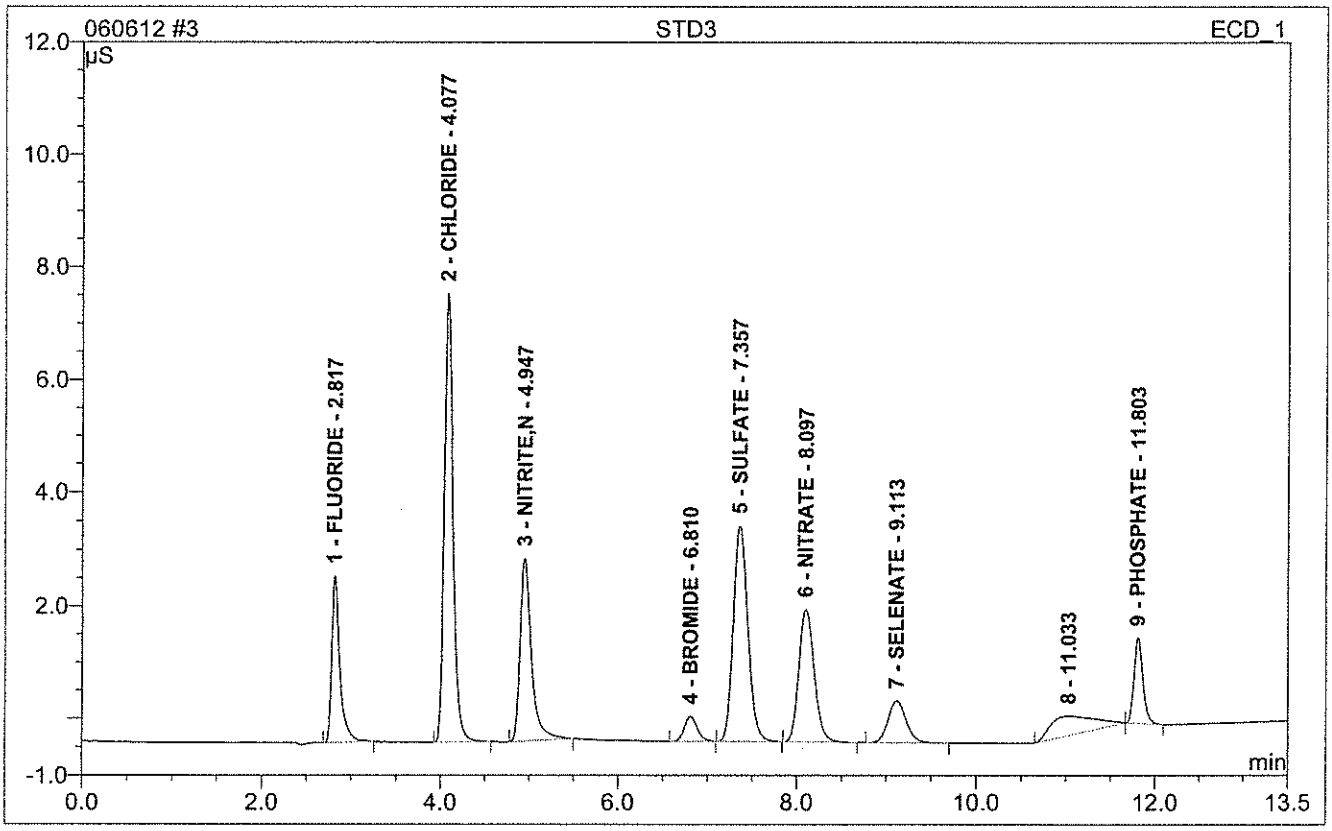
Sample Name:	**STD2**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 14:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.82	FLUORIDE	0.548	0.066	7.60	0.424	1.
3	4.08	CHLORIDE	1.554	0.176	20.35	1.952	1.
5	4.95	NITRITE,N	0.588	0.083	9.62	0.357	1.
6	6.81	BROMIDE	0.083	0.014	1.58	0.355	1.
7	7.37	SULFATE	0.771	0.147	17.06	1.910	1.
8	8.12	NITRATE	0.464	0.093	10.72	0.387	1.
9	9.12	SELENATE	0.139	0.033	3.84	0.371	1.
11	11.81	PHOSPHATE	0.271	0.032	3.71	0.364	1.
Total:			4.417	0.644	74.49	6.120	

3 STD3

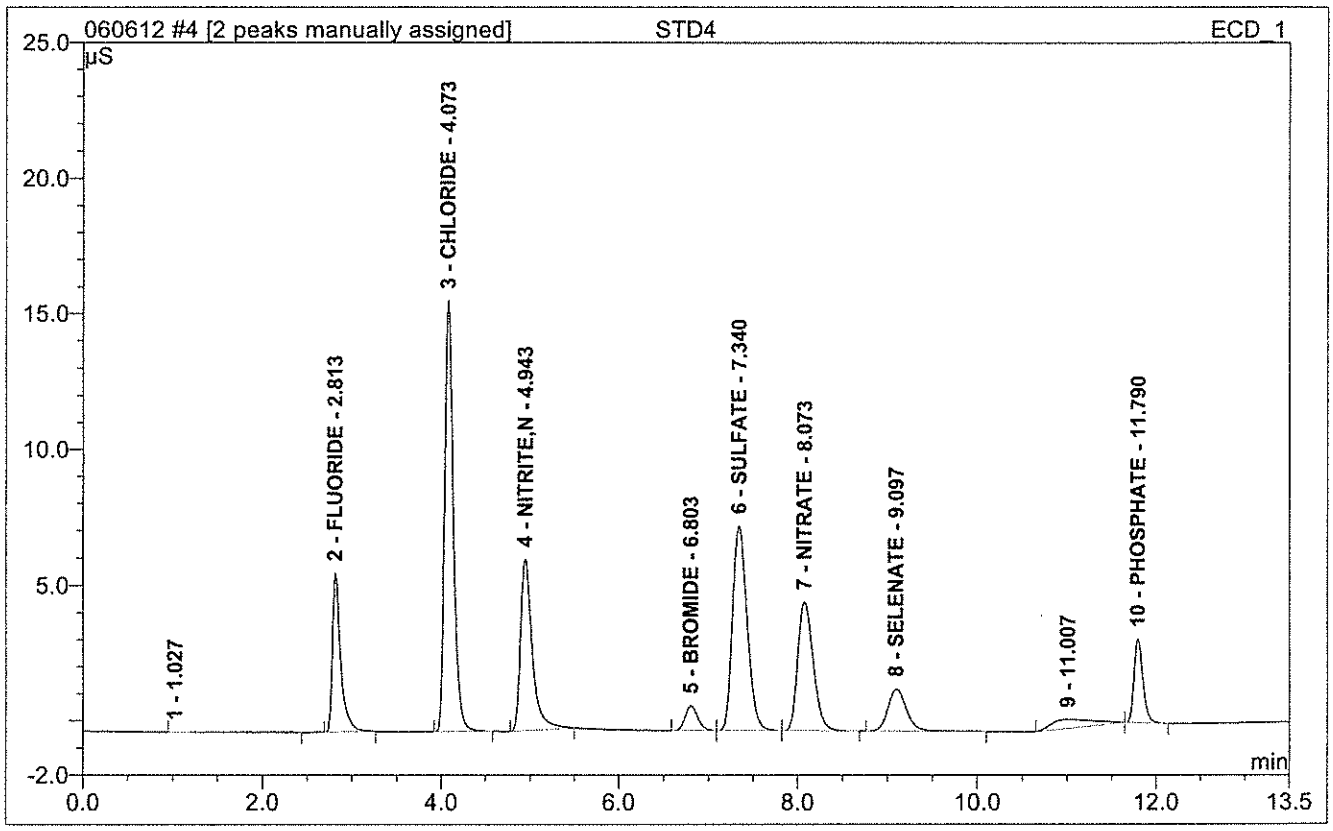
Sample Name:	**STD3**	*Injection Volume:*	**10.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 14:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.82	FLUORIDE	2.959	0.310	8.84	2.000	1.
2	4.08	CHLORIDE	7.951	0.905	25.82	10.043	1.
3	4.95	NITRITE,N	3.242	0.482	13.74	2.067	1.
4	6.81	BROMIDE	0.443	0.073	2.08	1.893	1.
5	7.36	SULFATE	3.818	0.724	20.65	9.377	1.
6	8.10	NITRATE	2.350	0.467	13.33	1.951	1.
7	9.11	SELENATE	0.739	0.171	4.88	1.909	1.
9	11.80	PHOSPHATE	1.515	0.180	5.13	2.038	1.
Total:			23.016	3.311	94.47	31.279	

4 STD4

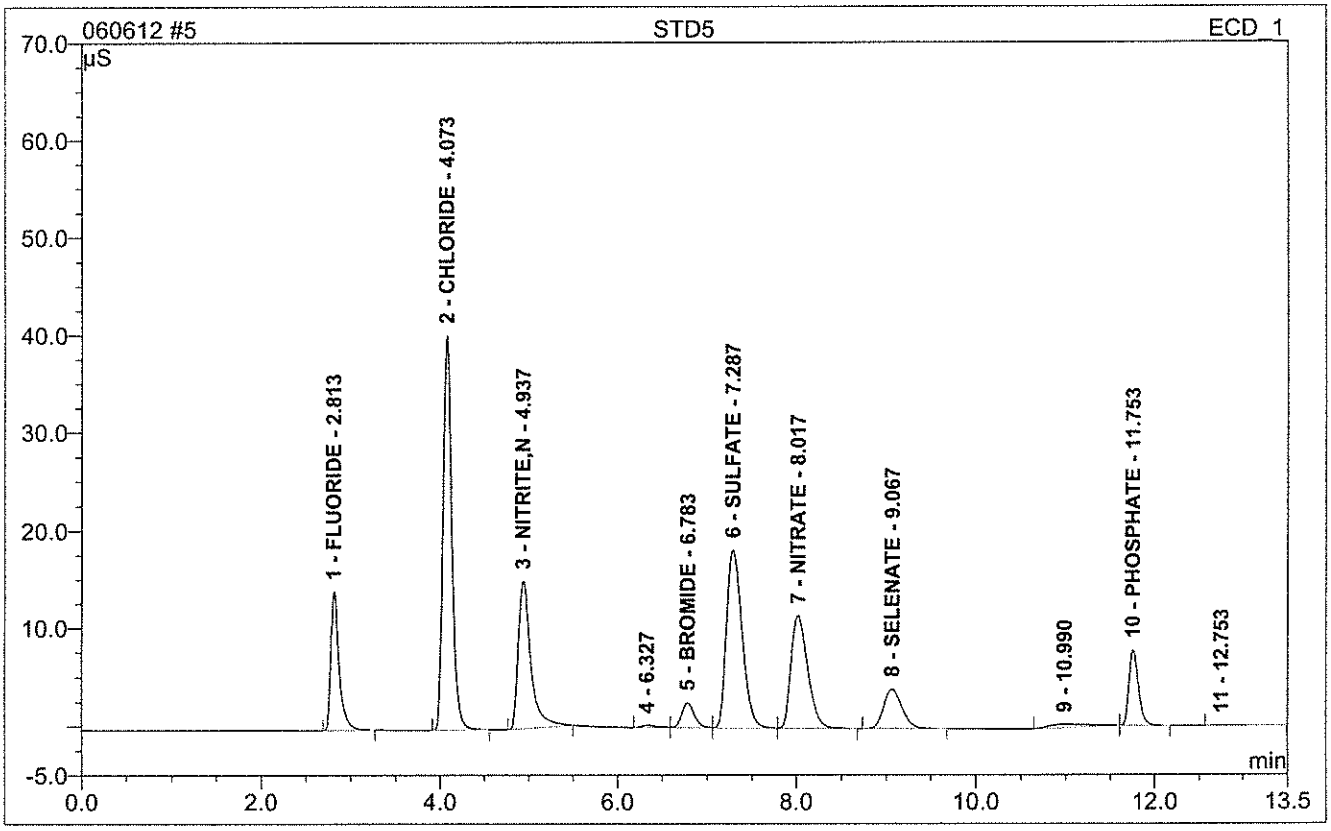
Sample Name:	**STD4**	*Injection Volume:*	**10.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 14:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.81	FLUORIDE	5.860	0.625	9.05	4.032	1.
3	4.07	CHLORIDE	15.881	1.816	26.29	20.150	1.
4	4.94	NITRITE,N	6.322	0.969	14.03	4.158	1.
5	6.80	BROMIDE	0.922	0.150	2.17	3.882	1.
6	7.34	SULFATE	7.534	1.440	20.85	18.650	1.
7	8.07	NITRATE	4.758	0.962	13.93	4.019	1.
8	9.10	SELENATE	1.554	0.372	5.39	4.156	1.
10	11.79	PHOSPHATE	3.085	0.370	5.36	4.199	1.
Total:			45.917	6.703	97.07	63.246	

5 STD5

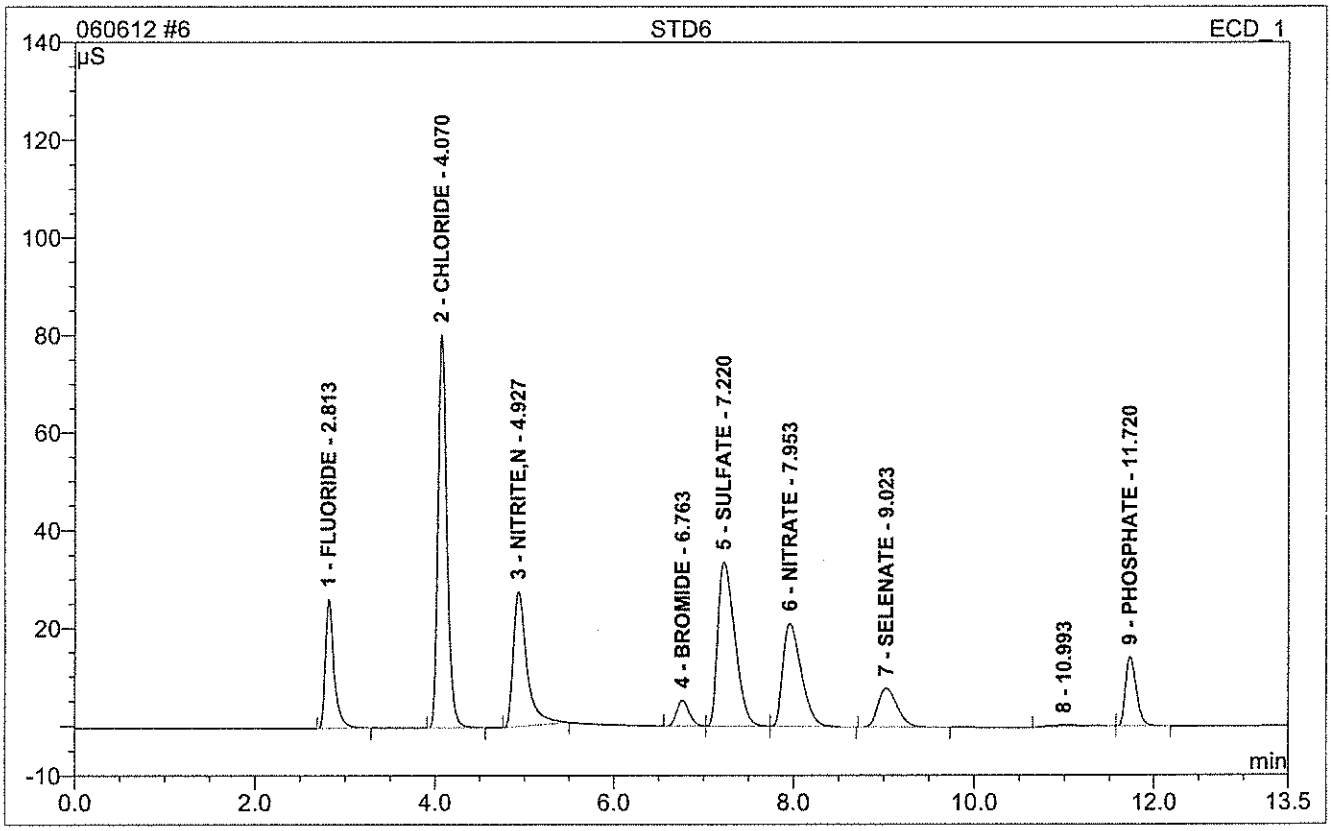
Sample Name:	**STD5**	*Injection Volume:*	**10.0**
Vial Number:	**5**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 14:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.81	FLUORIDE	14.189	1.529	8.79	9.868	1.
2	4.07	CHLORIDE	40.339	4.629	26.62	51.372	1.
3	4.94	NITRITE,N	15.096	2.484	14.28	10.662	1.
5	6.78	BROMIDE	2.546	0.419	2.41	10.884	1.
6	7.29	SULFATE	18.188	3.689	21.21	47.782	1.
7	8.02	NITRATE	11.493	2.476	14.24	10.342	1.
8	9.07	SELENATE	4.008	0.948	5.45	10.582	1.
10	11.75	PHOSPHATE	7.661	0.981	5.64	11.125	1.
Total:			113.521	17.155	98.64	162.617	

6 STD6

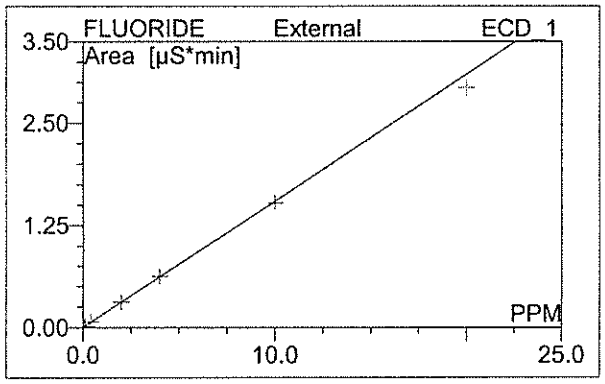
Sample Name:	**STD6**	*Injection Volume:*	**10.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 15:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**

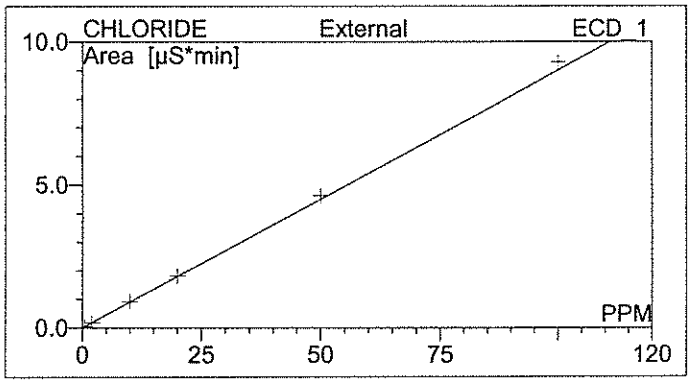


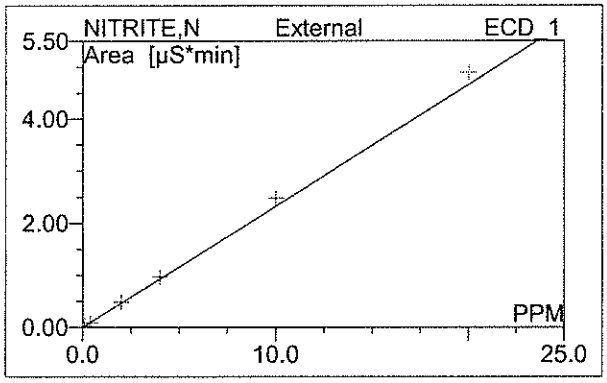
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.81	FLUORIDE	26.397	2.935	8.51	18.939	1.
2	4.07	CHLORIDE	80.540	9.292	26.95	103.126	1.
3	4.93	NITRITE,N	27.655	4.891	14.19	20.996	1.
4	6.76	BROMIDE	5.234	0.842	2.44	21.858	1.
5	7.22	SULFATE	33.560	7.413	21.50	96.020	1.
6	7.95	NITRATE	21.155	4.998	14.50	20.880	1.
7	9.02	SELENATE	7.902	1.945	5.64	21.708	1.
9	11.72	PHOSPHATE	14.134	1.998	5.79	22.659	1.
Total:			216.577	34.315	99.54	326.185	

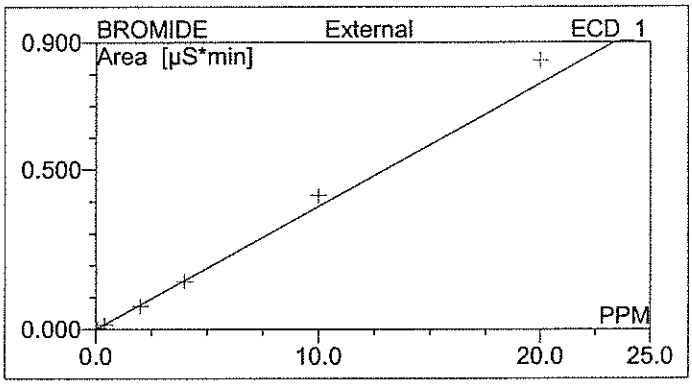
6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**10.0**
Vial Number:	**6**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**5/14/2012 15:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**









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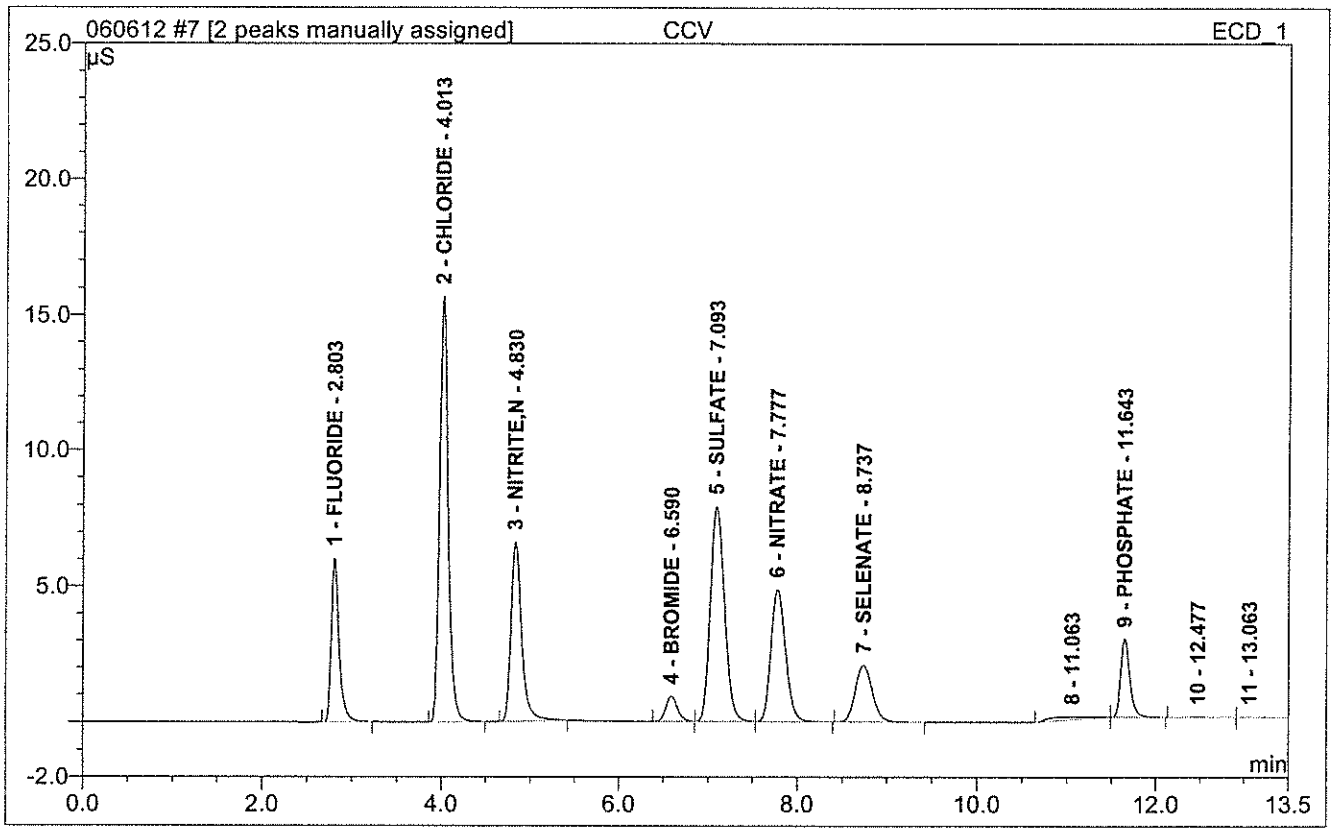
The system cannot find the path specified.

No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.81	FLUORIDE	AvCF	6	99.573	0.0000	0.1550	0.000
2	4.07	CHLORIDE	AvCF	6	99.853	0.0000	0.0901	0.000
3	4.93	NITRITE,N	AvCF	6	99.559	0.0000	0.2330	0.000
4	6.76	BROMIDE	AvCF	6	98.822	0.0000	0.0385	0.000
5	7.22	SULFATE	AvCF	6	99.665	0.0000	0.0772	0.000
6	7.95	NITRATE	AvCF	6	99.726	0.0000	0.2394	0.000
7	9.02	SELENATE	AvCF	6	99.069	0.0000	0.0896	0.000
9	11.72	PHOSPHATE	AvCF	6	97.831	0.0000	0.0882	0.000
Average:					99.2623	0.0000	0.1264	0.0000

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	RF-Value	Std.Dev.	RSD %
1	2.81	FLUORIDE	AvCF	6	99.977	6.453	0.006	3.631
2	4.07	CHLORIDE	AvCF	6	99.999	11.099	0.003	3.017
3	4.93	NITRITE,N	AvCF	6	99.996	4.292	0.017	7.454
4	6.76	BROMIDE	AvCF	6	99.976	25.951	0.003	8.149
5	7.22	SULFATE	AvCF	6	99.998	12.953	0.010	12.724
6	7.95	NITRATE	AvCF	6	99.997	4.177	0.008	3.306
7	9.02	SELENATE	AvCF	6	99.990	11.160	0.006	6.886
9	11.72	PHOSPHATE	AvCF	6	99.990	11.342	0.012	13.501
Average:					99.9903	10.9285	0.0081	7.3336

7 CCV

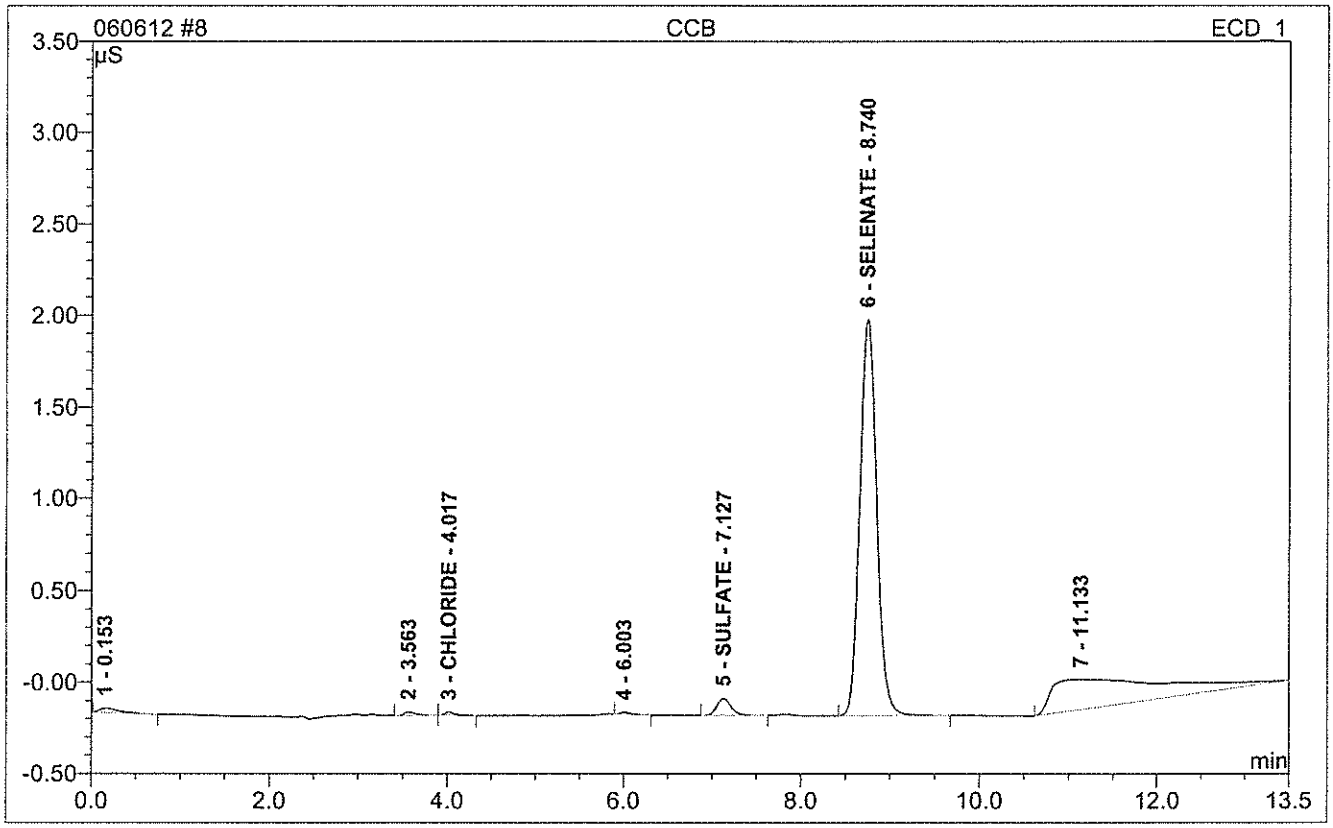
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 18:16**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	6.024	0.600	8.97	3.870	1.
2	4.01	CHLORIDE	15.670	1.762	26.37	19.557	1.
3	4.83	NITRITE,N	6.598	0.921	13.77	3.952	1.
4	6.59	BROMIDE	0.914	0.138	2.07	3.585	1.
5	7.09	SULFATE	7.892	1.472	22.02	19.064	1.
6	7.78	NITRATE	4.856	0.923	13.81	3.857	1.
7	8.74	SELENATE	2.082	0.457	6.84	5.101	1.
9	11.64	PHOSPHATE	2.878	0.343	5.14	3.894	1.
Total:			46.915	6.616	98.99	62.879	

8 CCB

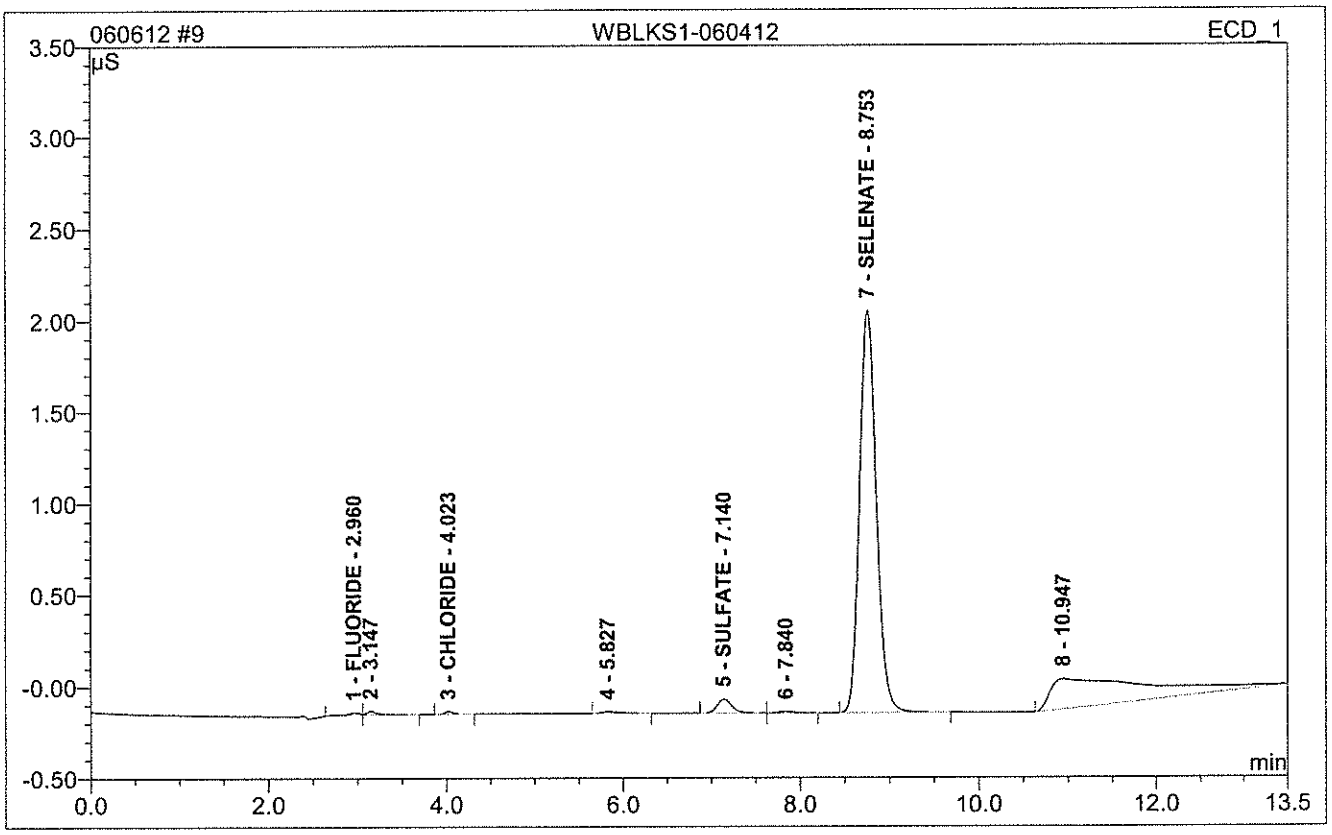
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 18:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
3	4.02	CHLORIDE	0.019	0.002	0.30	0.025	1.
5	7.13	SULFATE	0.093	0.018	2.39	0.227	1.
6	8.74	SELENATE	2.161	0.474	64.51	5.292	1.
Total:			2.273	0.494	67.20	5.543	

9 WBLKS1-060412

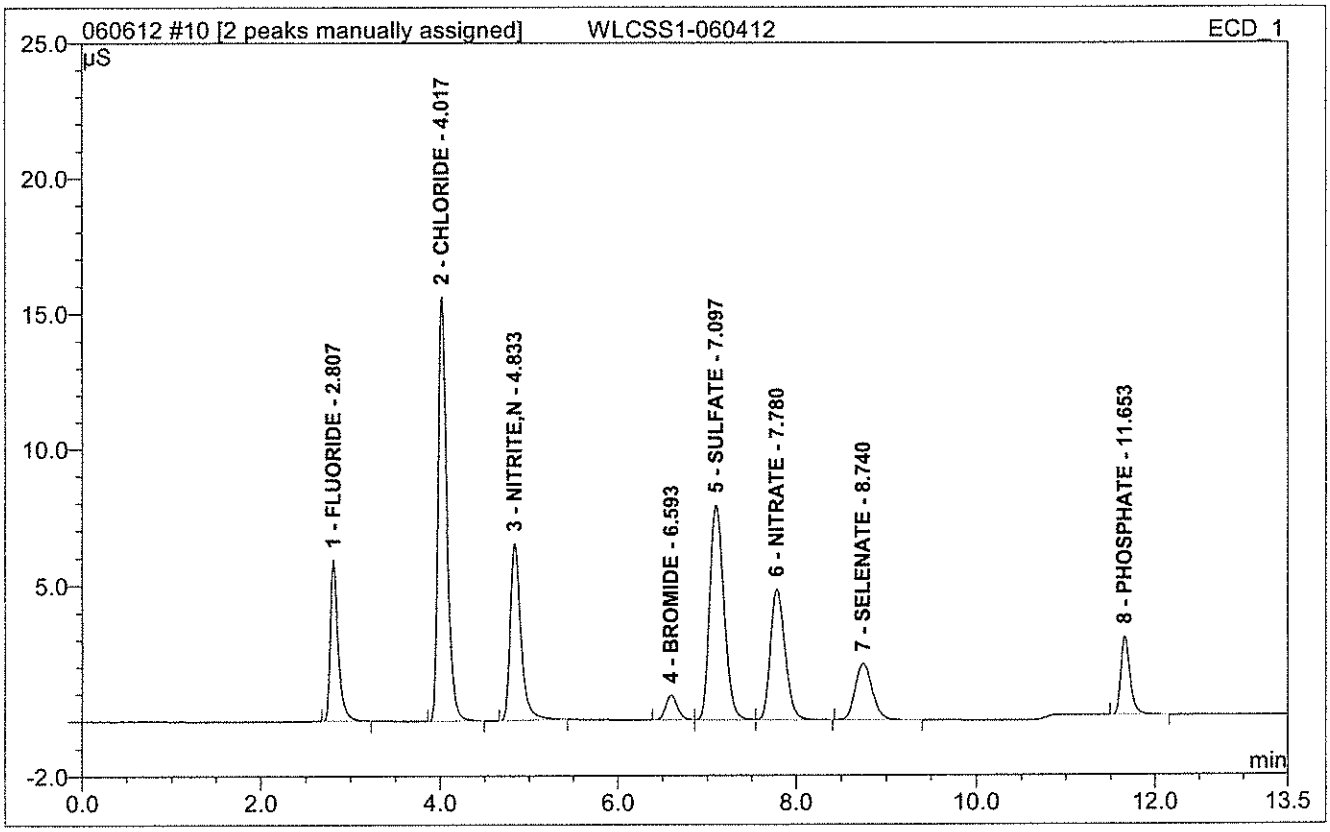
Sample Name:	**WBLKS1-060412**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/4/2012 19:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.96	FLUORIDE	0.015	0.003	0.40	0.018	1.
3	4.02	CHLORIDE	0.015	0.002	0.25	0.019	1.
5	7.14	SULFATE	0.076	0.015	2.06	0.189	1.
7	8.75	SELENATE	2.195	0.481	68.02	5.365	1.
Total:			2.300	0.500	70.73	5.591	

10 WLCSS1-060412

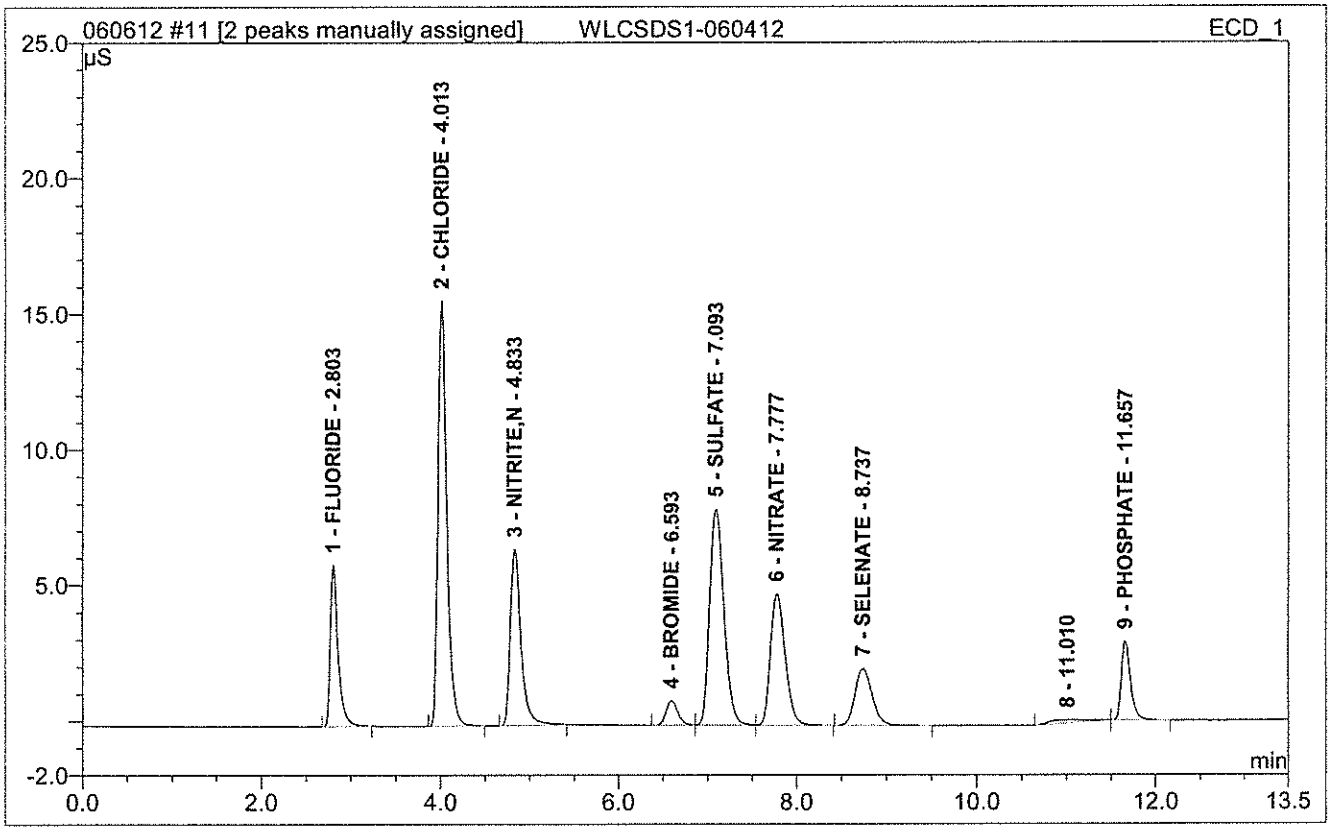
Sample Name:	**WLCSS1-060412**	*Injection Volume:*	**10.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 18:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.81	FLUORIDE	5.918	0.597	9.01	3.853	1.
2	4.02	CHLORIDE	15.615	1.767	26.67	19.609	1.
3	4.83	NITRITE,N	6.491	0.914	13.79	3.923	1.
4	6.59	BROMIDE	0.909	0.139	2.10	3.612	1.
5	7.10	SULFATE	7.895	1.480	22.34	19.170	1.
6	7.78	NITRATE	4.819	0.925	13.96	3.862	1.
7	8.74	SELENATE	2.079	0.459	6.93	5.126	1.
8	11.65	PHOSPHATE	2.885	0.345	5.20	3.911	1.
Total:			46.611	6.626	100.00	63.066	

11 WLCSDS1-060412

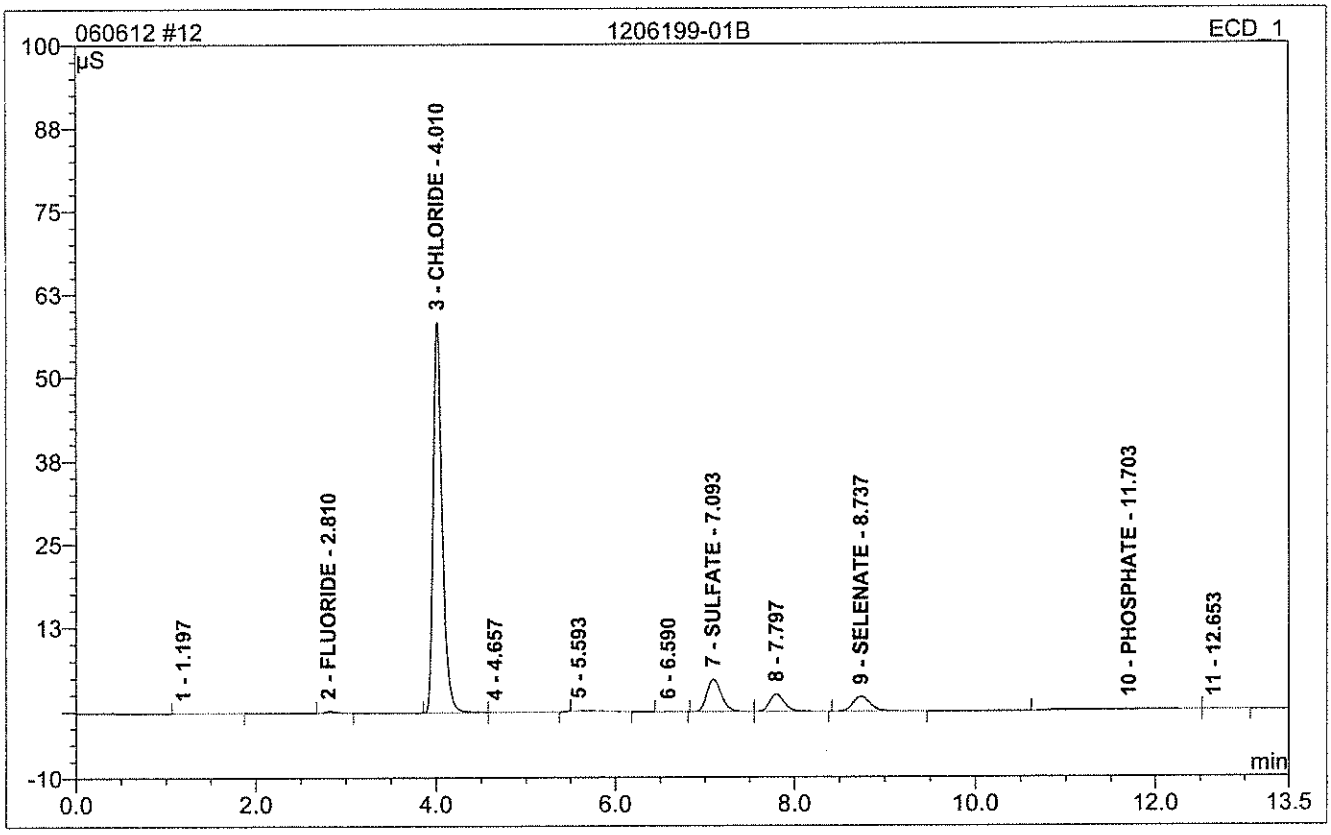
Sample Name:	**WLCSDS1-060412**	*Injection Volume:*	**10.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 19:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	5.940	0.602	8.95	3.885	1.
2	4.01	CHLORIDE	15.668	1.779	26.45	19.740	1.
3	4.83	NITRITE,N	6.487	0.912	13.57	3.916	1.
4	6.59	BROMIDE	0.917	0.142	2.11	3.676	1.
5	7.09	SULFATE	7.953	1.494	22.21	19.353	1.
6	7.78	NITRATE	4.829	0.931	13.84	3.887	1.
7	8.74	SELENATE	2.090	0.461	6.86	5.149	1.
9	11.66	PHOSPHATE	2.892	0.348	5.17	3.942	1.
Total:			46.777	6.668	99.15	63.548	

12 1206199-01B

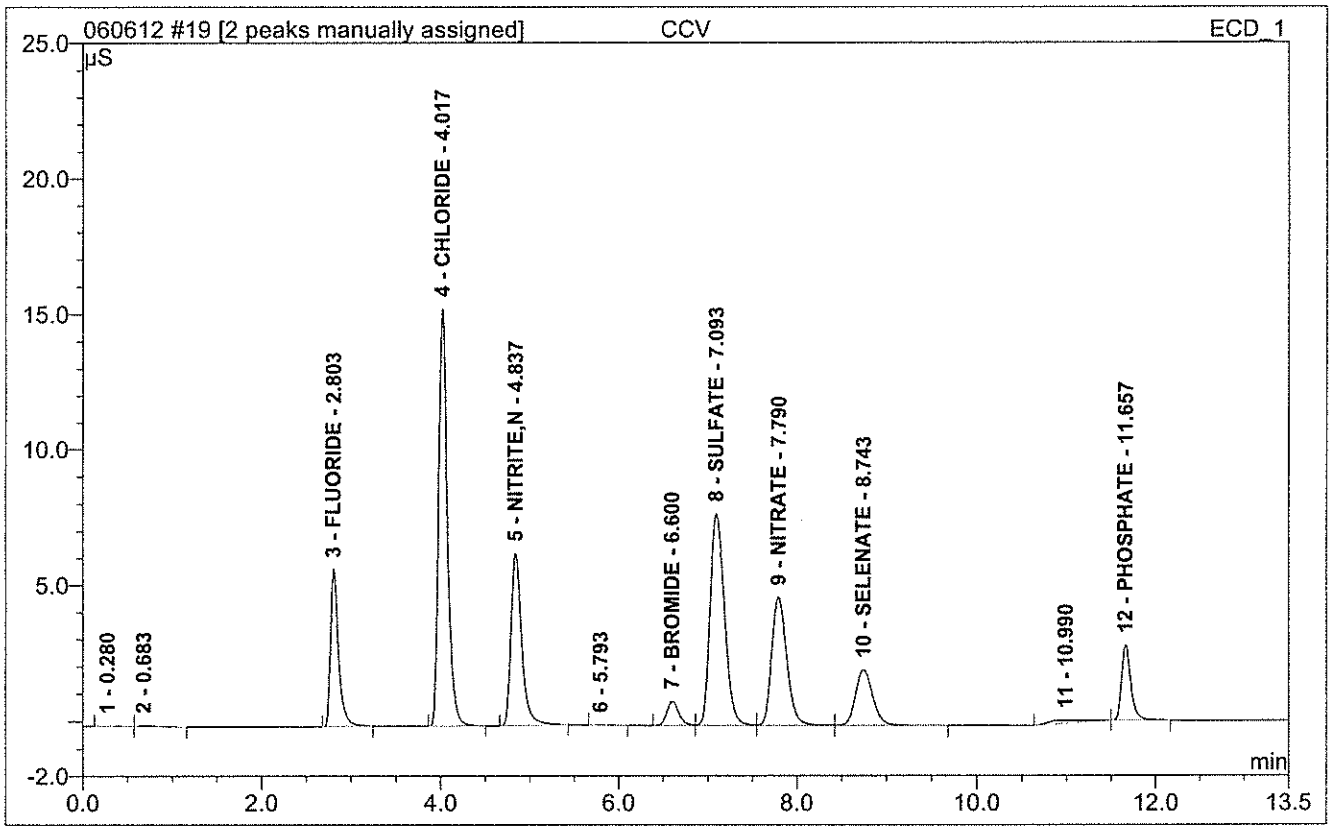
Sample Name:	**1206199-01B**	*Injection Volume:*	**10.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 19:23**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.81	FLUORIDE	0.280	0.033	0.37	0.211	1.
3	4.01	CHLORIDE	58.522	6.739	76.03	74.797	1.
7	7.09	SULFATE	4.808	0.906	10.22	11.736	1.
9	8.74	SELENATE	2.181	0.483	5.45	5.393	1.
10	11.70	PHOSPHATE	0.100	0.161	1.81	1.823	1.
Total:			65.890	8.322	93.88	93.960	

19 CCV

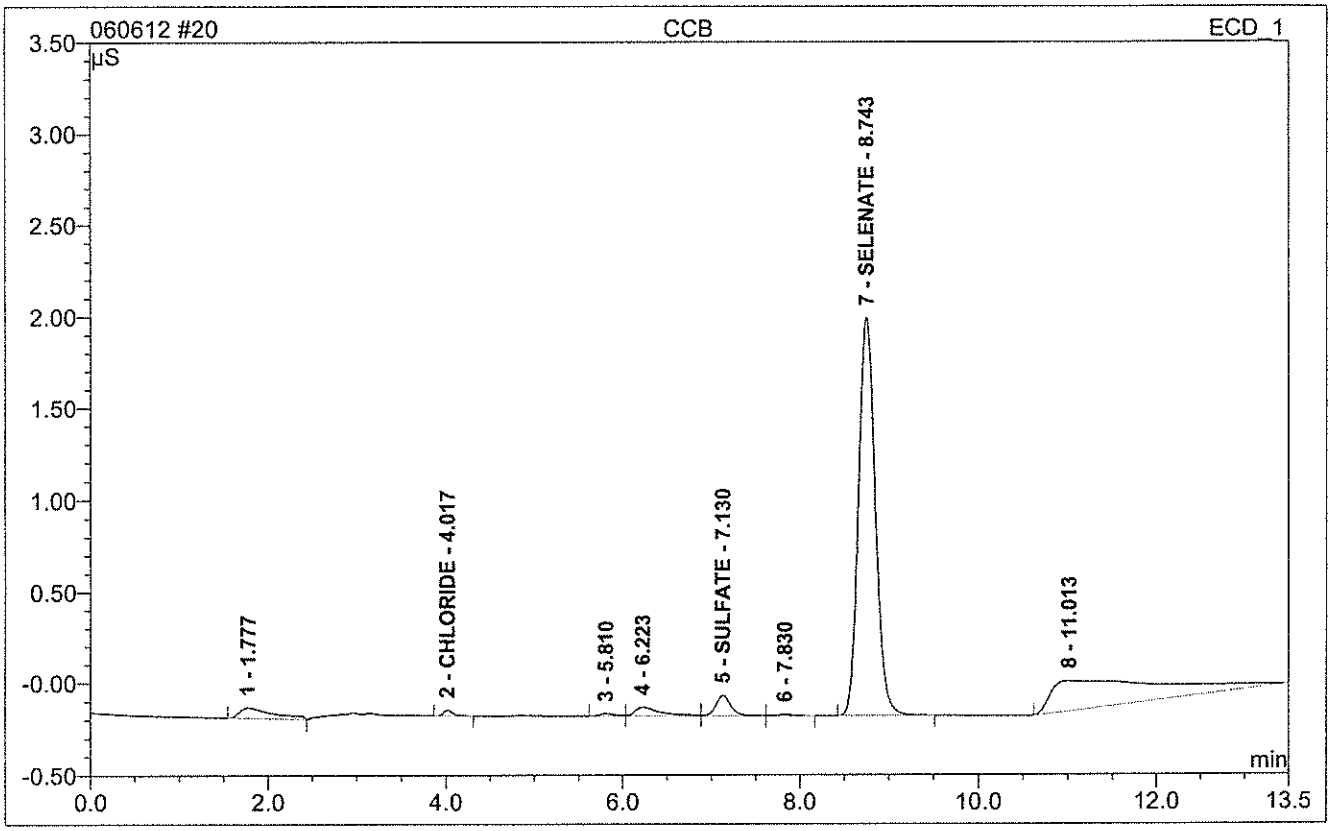
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 21:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
3	2.80	FLUORIDE	5.781	0.591	8.93	3.814	1.
4	4.02	CHLORIDE	15.368	1.754	26.50	19.471	1.
5	4.84	NITRITE,N	6.334	0.891	13.45	3.823	1.
7	6.60	BROMIDE	0.881	0.137	2.07	3.557	1.
8	7.09	SULFATE	7.784	1.468	22.18	19.019	1.
9	7.79	NITRATE	4.712	0.924	13.96	3.860	1.
10	8.74	SELENATE	2.042	0.457	6.91	5.103	1.
12	11.66	PHOSPHATE	2.767	0.334	5.05	3.789	1.
Total:			45.669	6.557	99.05	62.435	

20 CCB

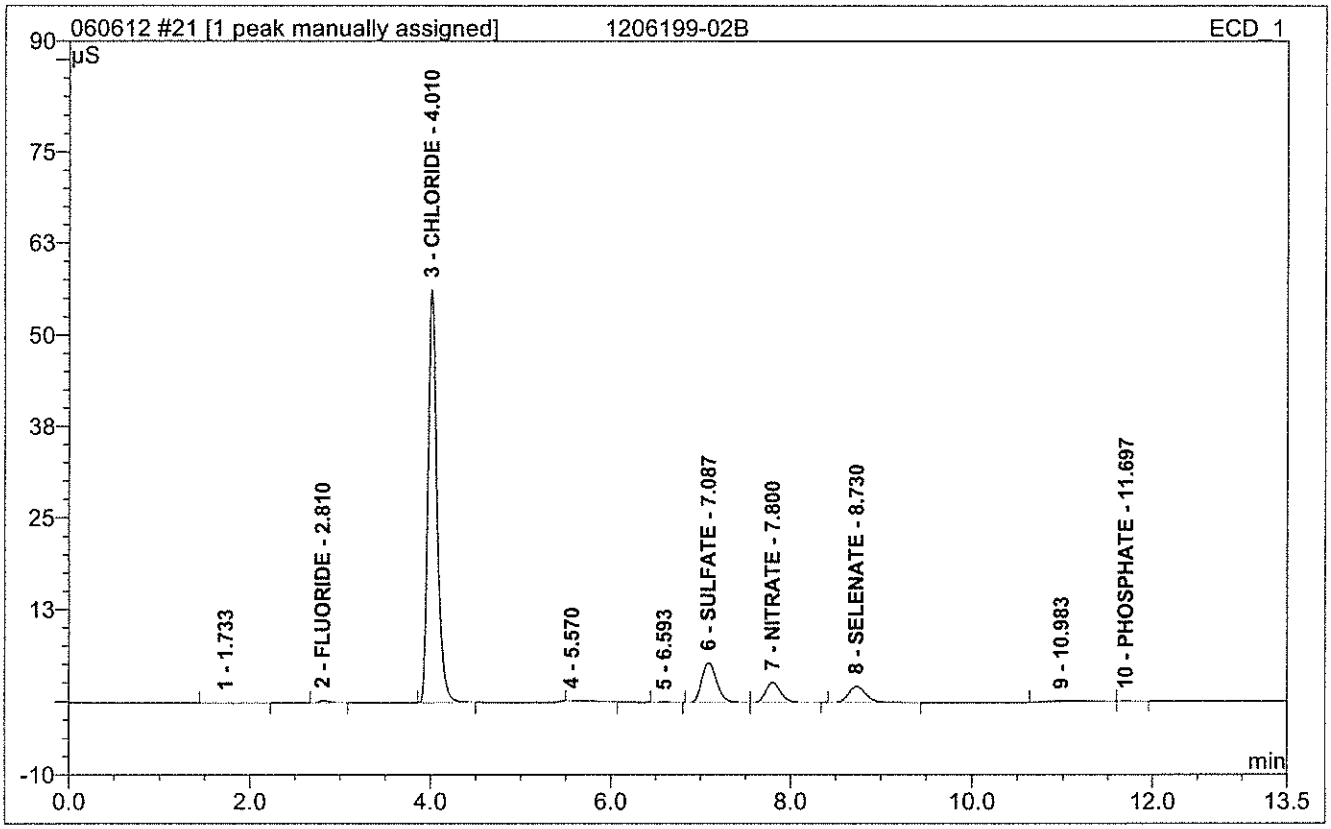
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 21:19**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	4.02	CHLORIDE	0.031	0.004	0.47	0.040	1.
5	7.13	SULFATE	0.111	0.022	2.82	0.281	1.
7	8.74	SELENATE	2.173	0.476	61.69	5.309	1.
Total:			2.315	0.501	64.98	5.631	

21 1206199-02B

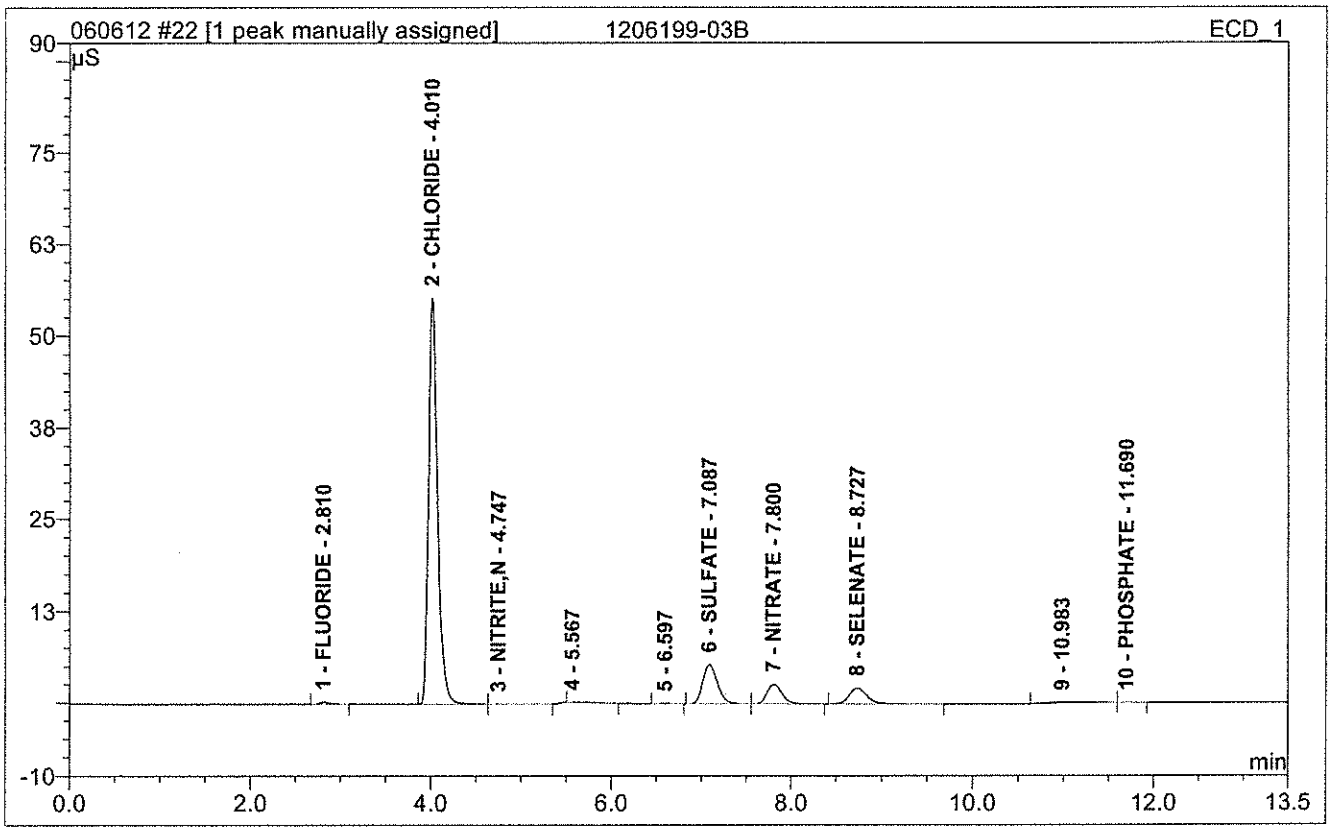
Sample Name:	**1206199-02B**	*Injection Volume:*	**10.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 21:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.81	FLUORIDE	0.297	0.036	0.42	0.232	1.
3	4.01	CHLORIDE	56.297	6.482	75.28	71.941	1.
6	7.09	SULFATE	5.388	1.020	11.85	13.215	1.
7	7.80	NITRATE	2.686	0.506	5.88	2.114	1.
8	8.73	SELENATE	2.167	0.479	5.56	5.343	1.
10	11.70	PHOSPHATE	0.013	0.002	0.02	0.019	1.
Total:			66.847	8.525	99.01	92.863	

22 1206199-03B

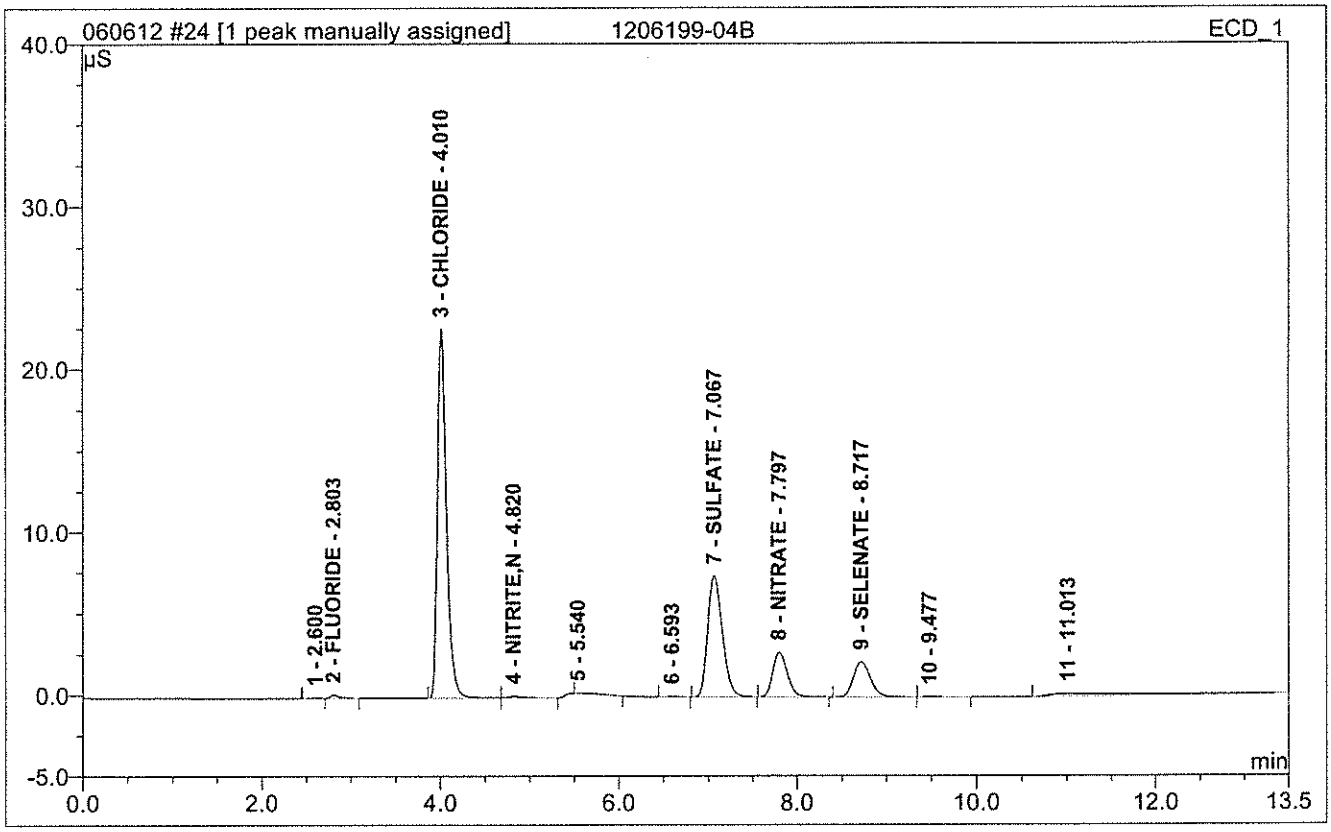
Sample Name:	**1206199-03B**	*Injection Volume:*	**10.0**
Vial Number:	**19**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 21:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.81	FLUORIDE	0.292	0.038	0.45	0.247	1.
2	4.01	CHLORIDE	55.316	6.394	75.01	70.961	1.
3	4.75	NITRITE,N	0.038	0.013	0.15	0.057	1.
6	7.09	SULFATE	5.352	1.012	11.87	13.106	1.
7	7.80	NITRATE	2.665	0.503	5.90	2.102	1.
8	8.73	SELENATE	2.146	0.477	5.60	5.325	1.
10	11.69	PHOSPHATE	0.011	0.002	0.02	0.017	1.
Total:			65.820	8.439	99.01	91.814	

24 1206199-04B

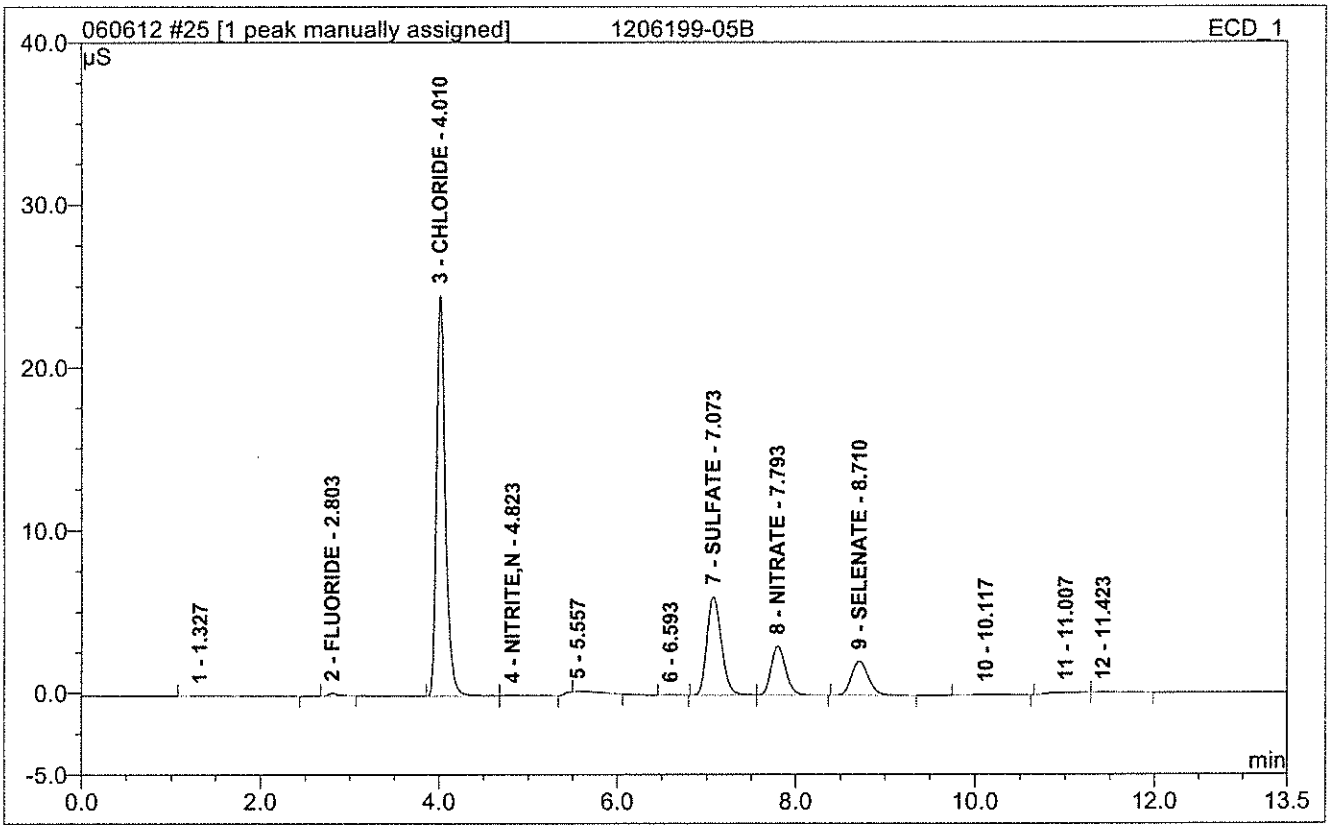
Sample Name:	**1206199-04B**	*Injection Volume:*	**10.0**
Vial Number:	**21**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 22:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.80	FLUORIDE	0.204	0.026	0.48	0.165	1.
3	4.01	CHLORIDE	22.642	2.584	48.89	28.674	1.
4	4.82	NITRITE,N	0.105	0.016	0.30	0.069	1.
7	7.07	SULFATE	7.414	1.424	26.94	18.442	1.
8	7.80	NITRATE	2.728	0.517	9.77	2.158	1.
9	8.72	SELENATE	2.147	0.473	8.96	5.283	1.
Total:			35.240	5.039	95.34	54.791	

25 1206199-05B

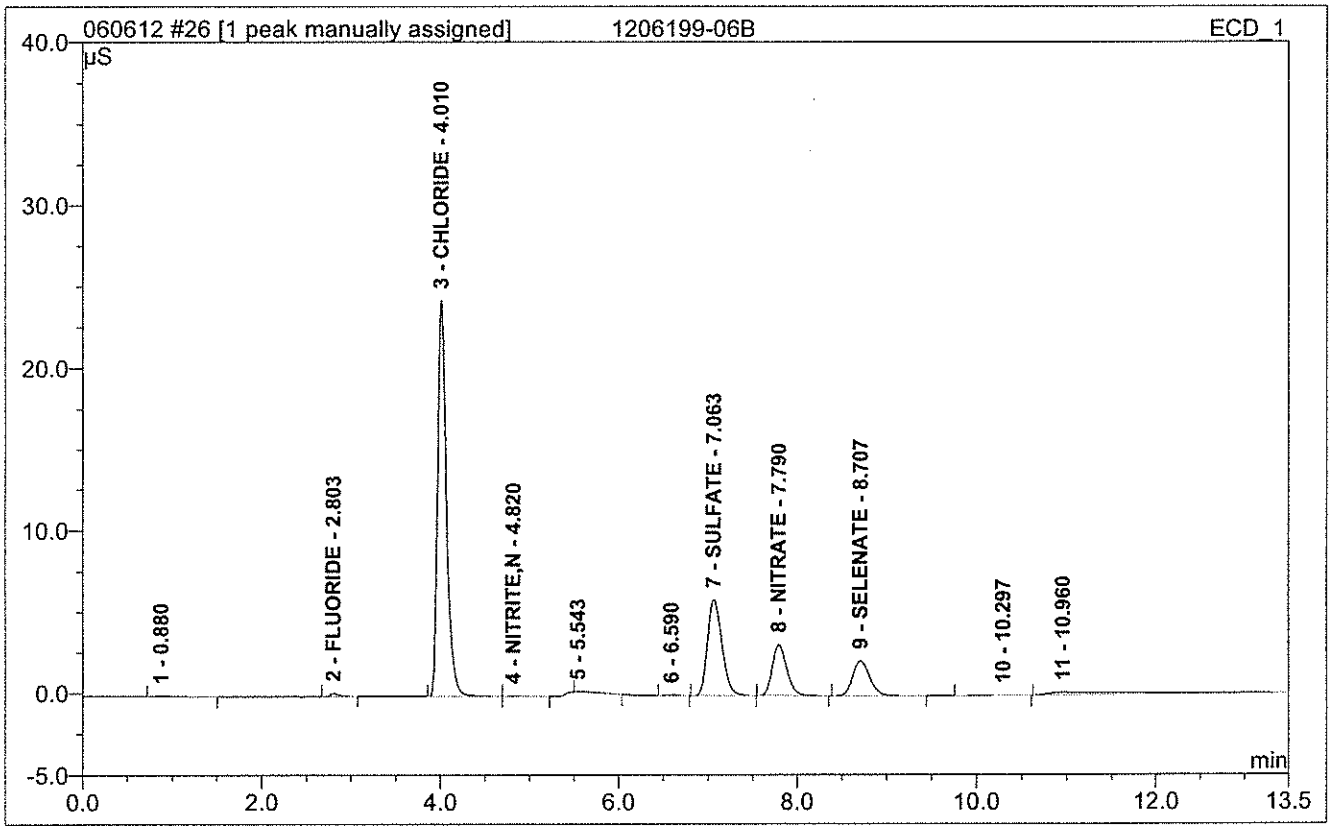
Sample Name:	**1206199-05B**	*Injection Volume:*	**10.0**
Vial Number:	**22**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 22:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.80	FLUORIDE	0.177	0.019	0.37	0.123	1.
3	4.01	CHLORIDE	24.609	2.816	54.77	31.252	1.
4	4.82	NITRITE,N	0.049	0.009	0.18	0.040	1.
7	7.07	SULFATE	6.072	1.153	22.43	14.933	1.
8	7.79	NITRATE	3.010	0.577	11.23	2.411	1.
9	8.71	SELENATE	2.096	0.462	8.99	5.158	1.
Total:			36.013	5.037	97.97	53.918	

26 1206199-06B

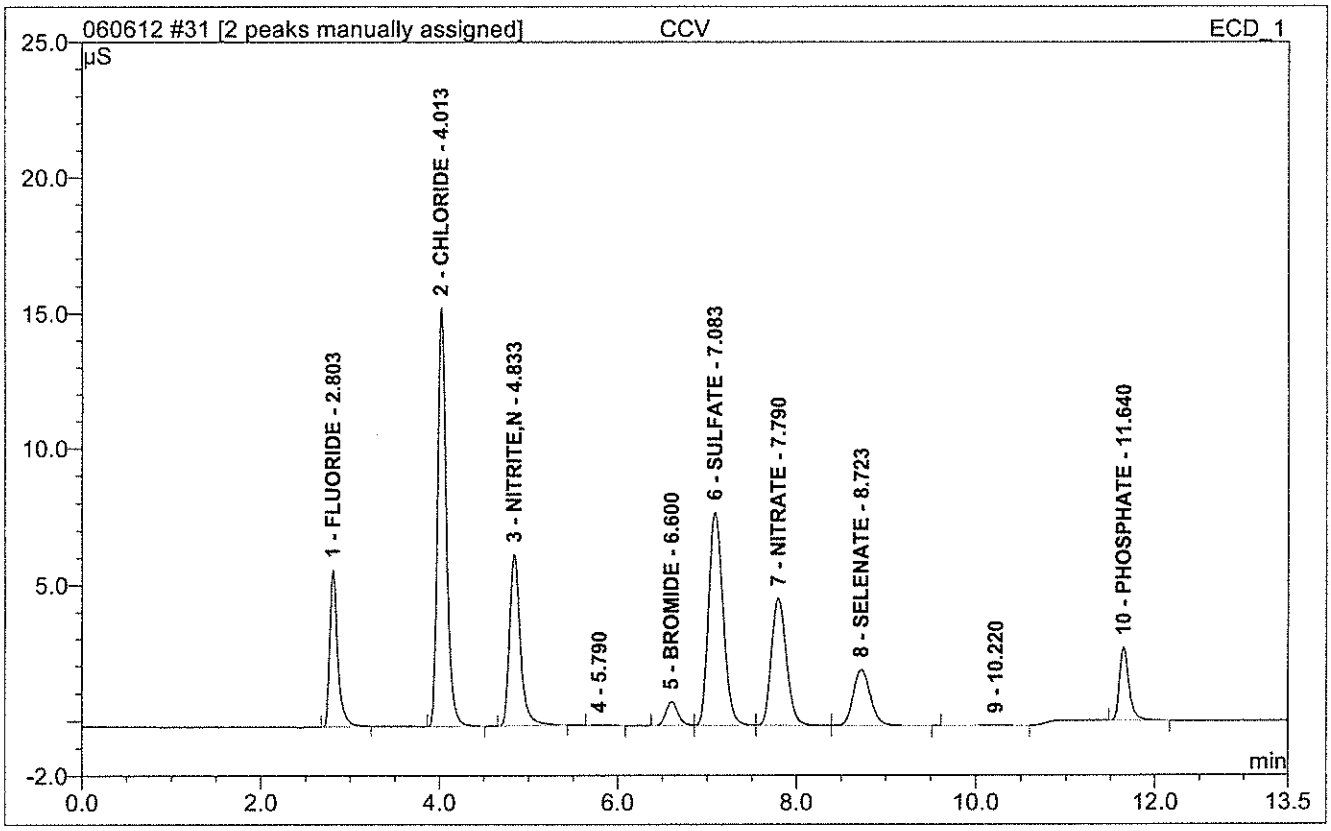
Sample Name:	**1206199-06B**	*Injection Volume:*	**10.0**
Vial Number:	**23**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 22:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.80	FLUORIDE	0.191	0.020	0.39	0.132	1.
3	4.01	CHLORIDE	24.296	2.781	53.07	30.867	1.
4	4.82	NITRITE,N	0.030	0.005	0.10	0.022	1.
7	7.06	SULFATE	5.886	1.117	21.31	14.466	1.
8	7.79	NITRATE	3.117	0.594	11.34	2.481	1.
9	8.71	SELENATE	2.141	0.474	9.05	5.294	1.
Total:			35.660	4.992	95.26	53.262	

31 CCV

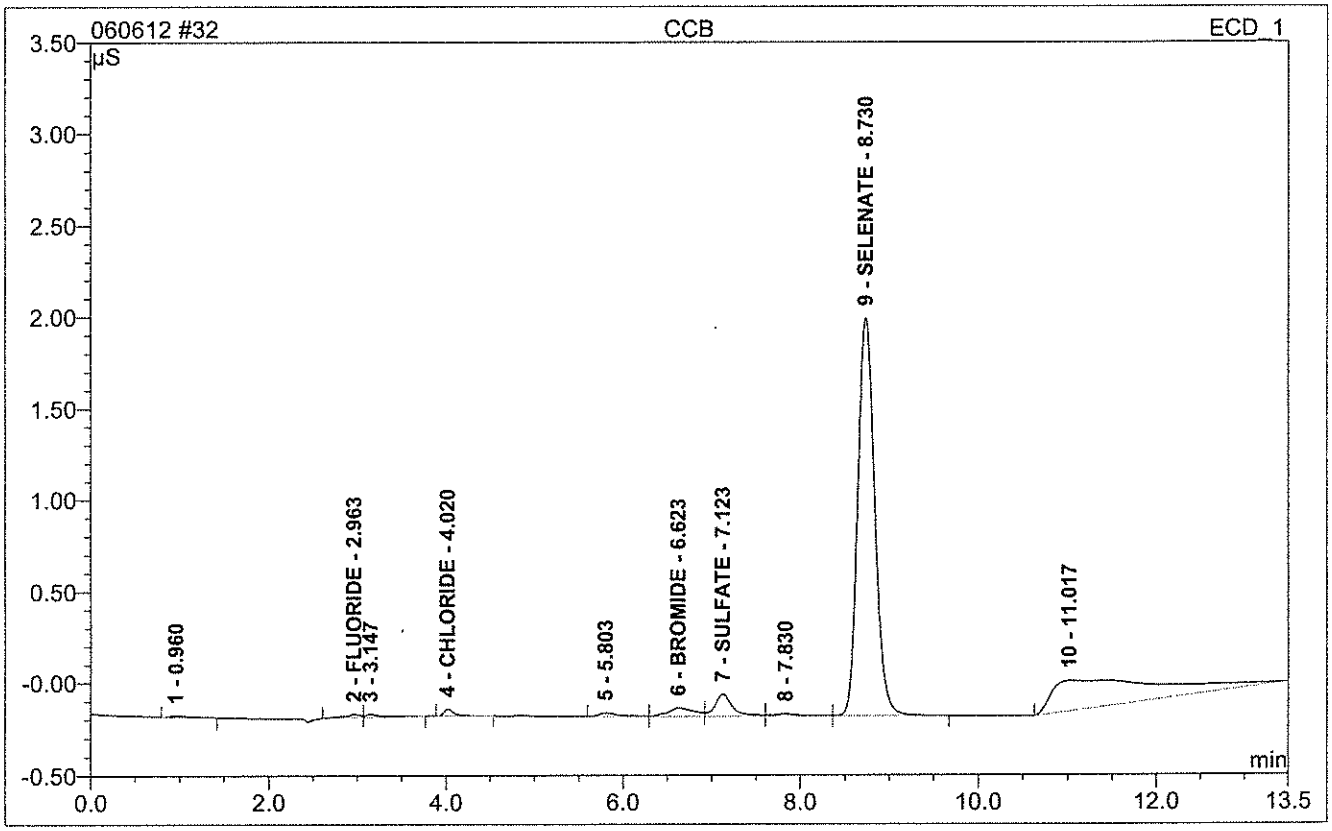
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/6/2012 23:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	5.771	0.593	9.01	3.828	1.
2	4.01	CHLORIDE	15.404	1.768	26.85	19.621	1.
3	4.83	NITRITE,N	6.305	0.892	13.55	3.829	1.
5	6.60	BROMIDE	0.870	0.137	2.08	3.559	1.
6	7.08	SULFATE	7.842	1.483	22.53	19.215	1.
7	7.79	NITRATE	4.689	0.920	13.98	3.844	1.
8	8.72	SELENATE	2.045	0.453	6.88	5.058	1.
10	11.64	PHOSPHATE	2.690	0.329	5.00	3.731	1.
Total:			45.616	6.576	99.88	62.687	

32 CCB

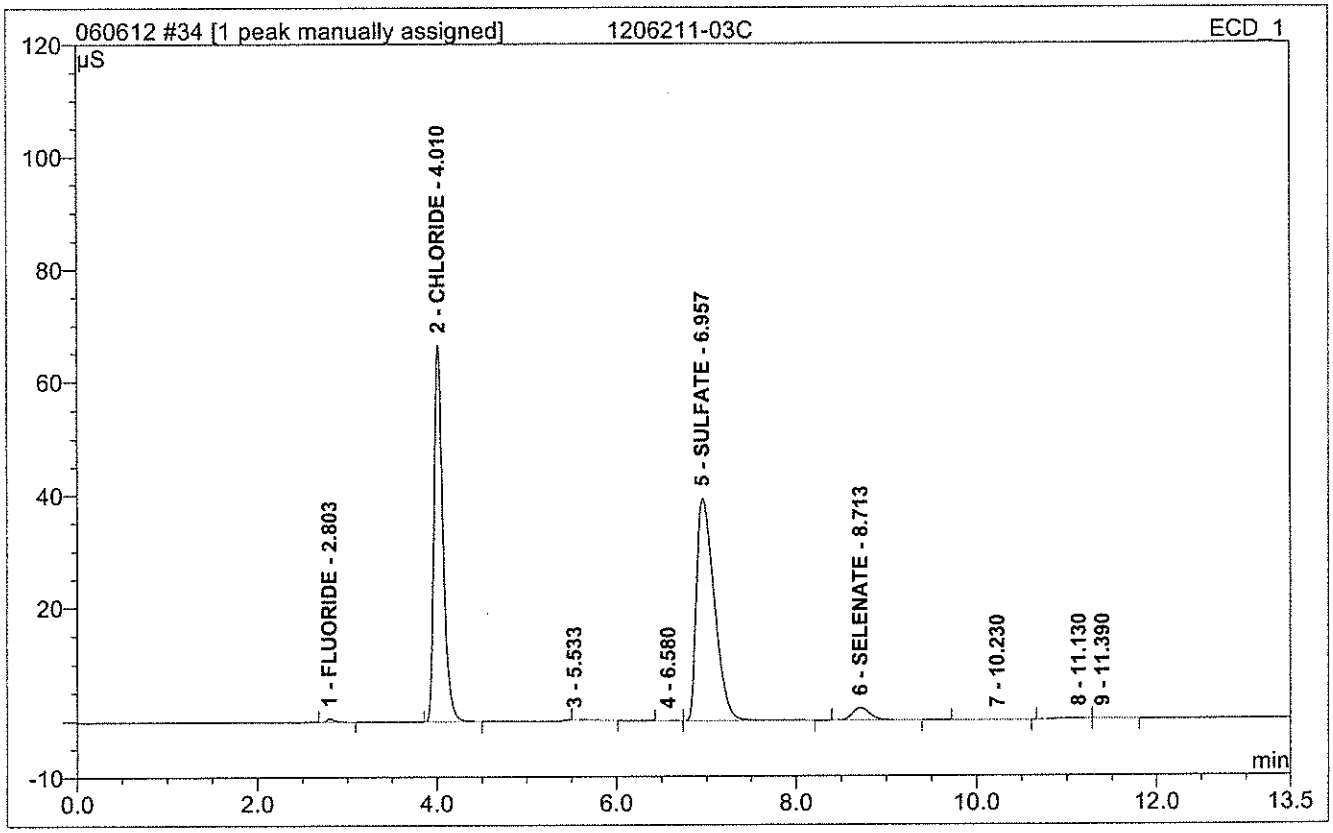
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 0:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	2.96	FLUORIDE	0.019	0.004	0.51	0.025	1.
4	4.02	CHLORIDE	0.038	0.005	0.66	0.056	1.
6	6.62	BROMIDE	0.045	0.015	1.96	0.385	1.
7	7.12	SULFATE	0.120	0.027	3.53	0.348	1.
9	8.73	SELENATE	2.171	0.478	63.01	5.338	1.
Total:			2.393	0.529	69.66	6.152	

34 1206211-03C

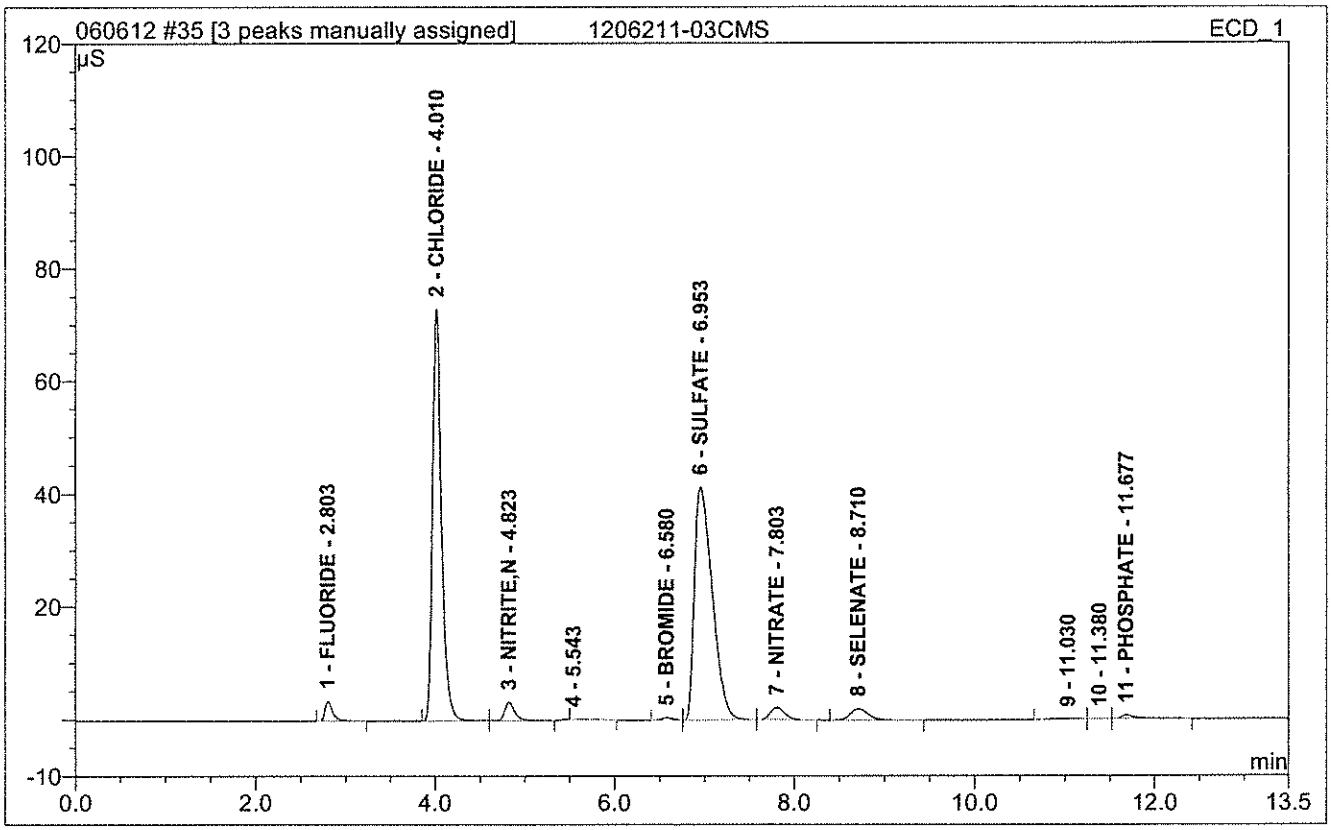
Sample Name:	**1206211-03C**	*Injection Volume:*	**10.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 0:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	0.613	0.061	0.35	0.395	1.
2	4.01	CHLORIDE	66.731	7.714	44.49	85.609	1.
5	6.96	SULFATE	39.370	9.023	52.04	116.873	1.
6	8.71	SELENATE	2.175	0.481	2.78	5.370	1.
Total:			108.890	17.279	99.65	208.248	

35 1206211-03CMS

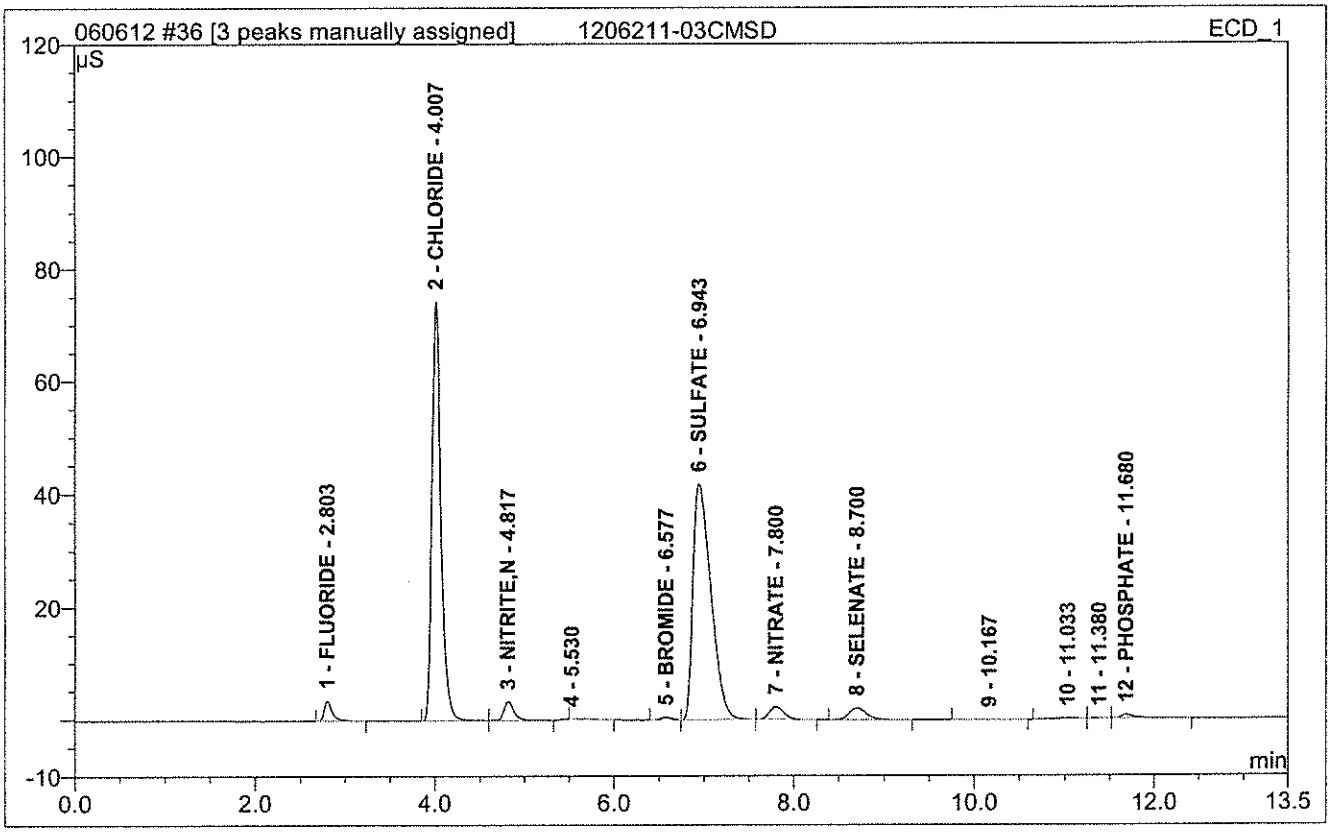
Sample Name:	**1206211-03CMS**	*Injection Volume:*	**10.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 0:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	3.483	0.354	1.79	2.287	1.
2	4.01	CHLORIDE	73.010	8.471	42.71	94.013	1.
3	4.82	NITRITE,N	3.275	0.433	2.18	1.860	1.
5	6.58	BROMIDE	0.437	0.063	0.32	1.623	1.
6	6.95	SULFATE	41.242	9.492	47.86	122.956	1.
7	7.80	NITRATE	2.206	0.416	2.10	1.736	1.
8	8.71	SELENATE	1.985	0.442	2.23	4.933	1.
11	11.68	PHOSPHATE	0.636	0.117	0.59	1.324	1.
Total:			126.273	19.788	99.77	230.733	

36 1206211-03CMSD

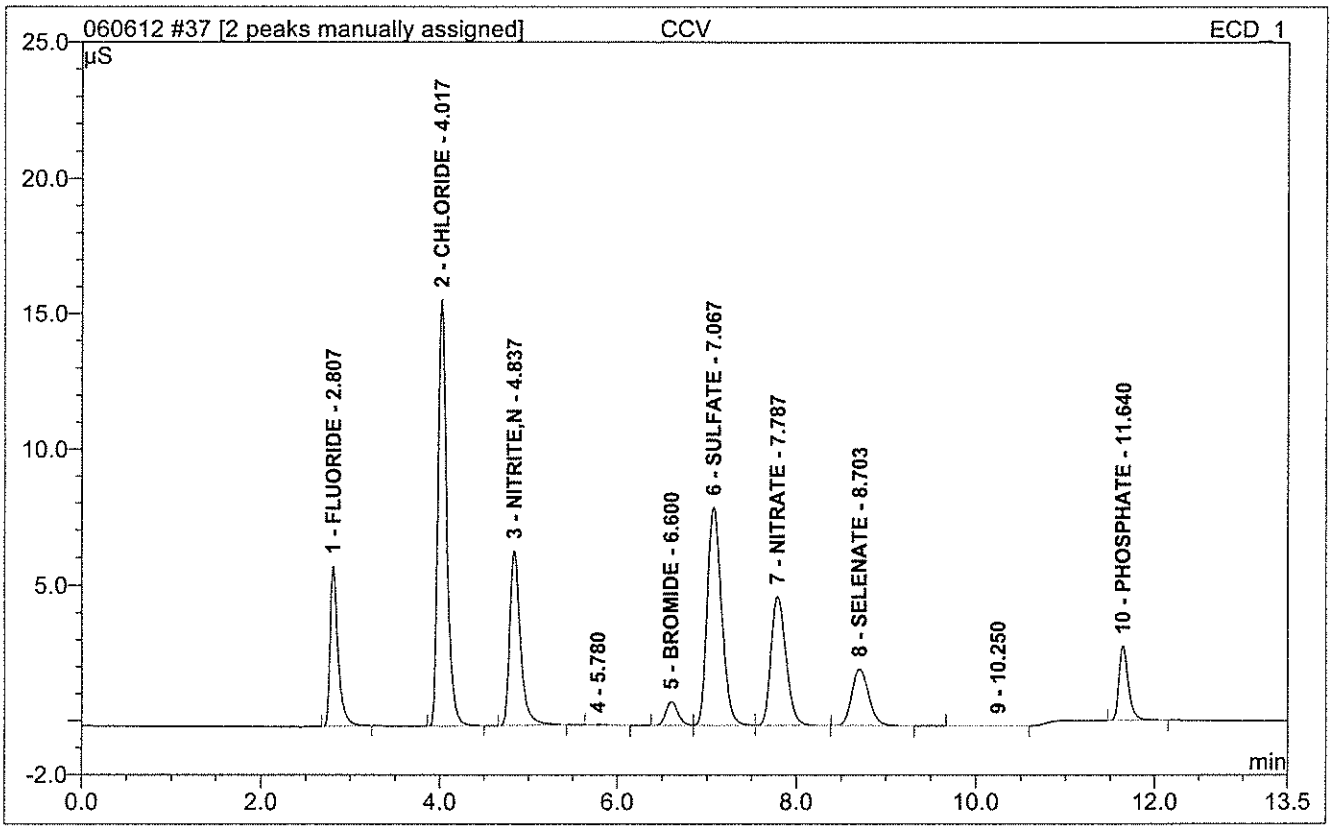
Sample Name:	**1206211-03CMSD**	*Injection Volume:*	**10.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 1:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.80	FLUORIDE	3.522	0.359	1.78	2.313	1.
2	4.01	CHLORIDE	74.404	8.628	42.76	95.762	1.
3	4.82	NITRITE,N	3.337	0.442	2.19	1.896	1.
5	6.58	BROMIDE	0.444	0.063	0.31	1.638	1.
6	6.94	SULFATE	41.750	9.647	47.81	124.962	1.
7	7.80	NITRATE	2.255	0.425	2.11	1.775	1.
8	8.70	SELENATE	2.025	0.448	2.22	5.005	1.
12	11.68	PHOSPHATE	0.639	0.117	0.58	1.331	1.
Total:			128.376	20.129	99.77	234.682	

37 CCV

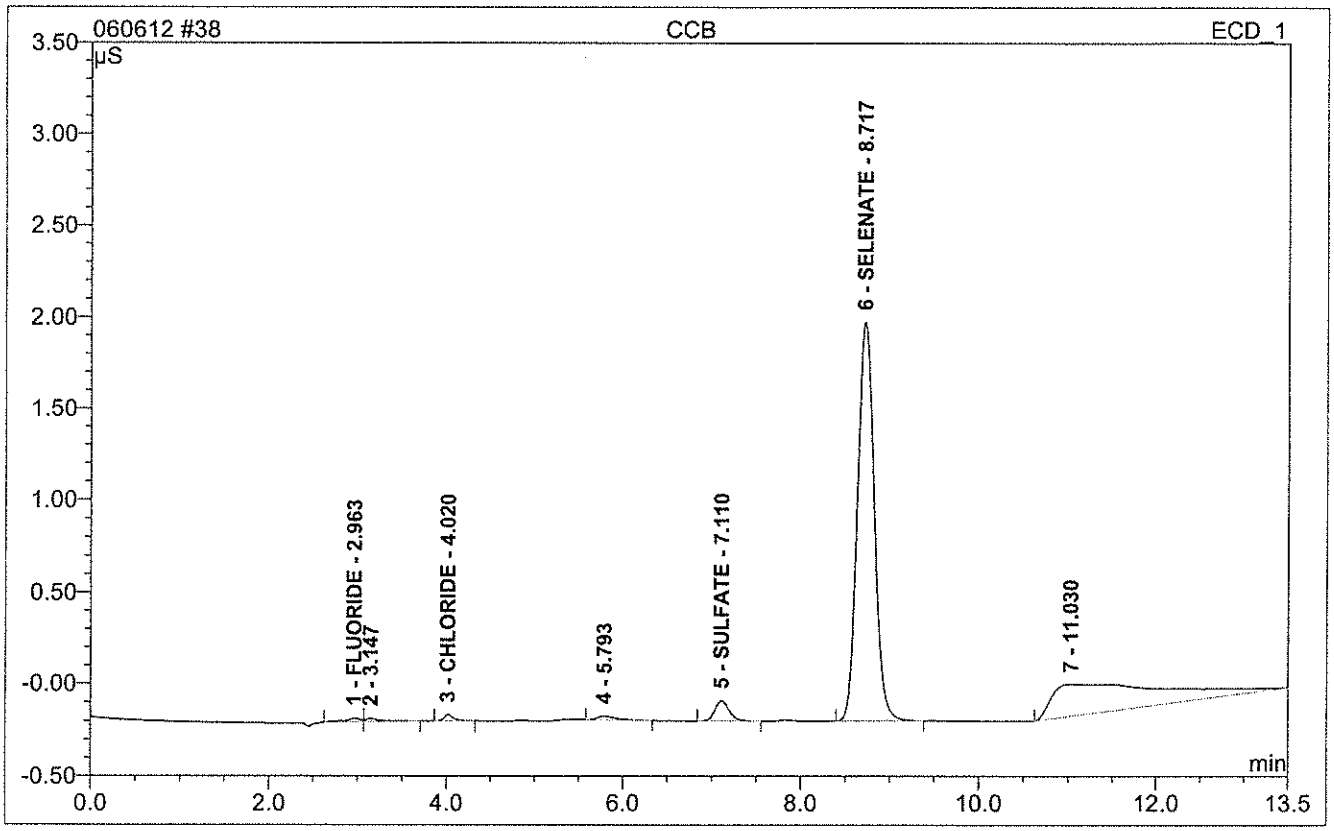
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 1:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.81	FLUORIDE	5.884	0.606	9.04	3.910	1.
2	4.02	CHLORIDE	15.710	1.803	26.90	20.015	1.
3	4.84	NITRITE,N	6.420	0.909	13.56	3.901	1.
5	6.60	BROMIDE	0.890	0.139	2.08	3.619	1.
6	7.07	SULFATE	8.022	1.512	22.55	19.585	1.
7	7.79	NITRATE	4.766	0.934	13.93	3.900	1.
8	8.70	SELENATE	2.095	0.460	6.87	5.136	1.
10	11.64	PHOSPHATE	2.744	0.334	4.99	3.791	1.
Total:			46.531	6.698	99.91	63.856	

38 CCB

Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**051412**	*Dilution Factor:*	**1.**
Recording Time:	**6/7/2012 1:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.96	FLUORIDE	0.020	0.004	0.48	0.023	1.
3	4.02	CHLORIDE	0.033	0.004	0.53	0.044	1.
5	7.11	SULFATE	0.110	0.021	2.74	0.267	1.
6	8.72	SELENATE	2.175	0.475	63.31	5.303	1.
Total:			2.338	0.503	67.07	5.637	

Sequence: 060612
Operator: ALSHS.NoUser
Printed: 2/13/2013 10:42:09 AM

Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 42
Created: 6/6/2012 6:11:38 PM by ALSHS.NoUser
Last Update: 6/18/2012 2:41:02 PM by ALSHS.NoUser

No.	Name	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
1	STD1	Standard	1	10.0	1.00	1.00	1.0000	051412
2	STD2	Standard	2	10.0	1.00	1.00	1.0000	051412
3	STD3	Standard	3	10.0	1.00	1.00	1.0000	051412
4	STD4	Standard	4	10.0	1.00	1.00	1.0000	051412
5	STD5	Standard	5	10.0	1.00	1.00	1.0000	051412
6	STD6	Standard	6	10.0	1.00	1.00	1.0000	051412
7	CCV	Unknown	1	10.0	1.00	1.00	1.0000	051412
8	CCB	Unknown	2	10.0	1.00	1.00	1.0000	051412
9	WBLKS1-060412	Unknown	2	10.0	1.00	1.00	1.0000	051412
10	WLCSS1-060412	Unknown	3	10.0	1.00	1.00	1.0000	051412
11	WLCSDS1-060412	Unknown	3	10.0	1.00	1.00	1.0000	051412
12	1206199-01B	Unknown	11	10.0	1.00	1.00	1.0000	051412
13	1206181-01G	Unknown	12	10.0	1.00	1.00	1.0000	051412
14	1206192-01F	Unknown	13	10.0	1.00	1.00	1.0000	051412
15	1206195-01H	Unknown	14	10.0	1.00	1.00	1.0000	051412
16	1206207-01F	Unknown	15	10.0	1.00	1.00	1.0000	051412
17	1206182-01G	Unknown	16	10.0	1.00	1.00	1.0000	051412
18	1206198-01H	Unknown	17	10.0	1.00	1.00	1.0000	051412
19	CCV	Unknown	1	10.0	1.00	1.00	1.0000	051412
20	CCB	Unknown	2	10.0	1.00	1.00	1.0000	051412
21	1206199-02B	Unknown	18	10.0	1.00	1.00	1.0000	051412
22	1206199-03B	Unknown	19	10.0	1.00	1.00	1.0000	051412
23	1206205-01F	Unknown	20	10.0	1.00	1.00	1.0000	051412
24	1206199-04B	Unknown	21	10.0	1.00	1.00	1.0000	051412
25	1206199-05B	Unknown	22	10.0	1.00	1.00	1.0000	051412
26	1206199-06B	Unknown	23	10.0	1.00	1.00	1.0000	051412
27	1206211-06C	Unknown	24	10.0	1.00	1.00	1.0000	051412
28	1206211-02C	Unknown	25	10.0	1.00	1.00	1.0000	051412
29	1206211-05C	Unknown	26	10.0	1.00	1.00	1.0000	051412
30	1206211-01C	Unknown	27	10.0	1.00	1.00	1.0000	051412
31	CCV	Unknown	1	10.0	1.00	1.00	1.0000	051412
32	CCB	Unknown	2	10.0	1.00	1.00	1.0000	051412
33	1206211-04C	Unknown	28	10.0	1.00	1.00	1.0000	051412
34	1206211-03C	Unknown	29	10.0	1.00	1.00	1.0000	051412
35	1206211-03CMS	Unknown	30	10.0	1.00	1.00	1.0000	051412
36	1206211-03CMSD	Unknown	31	10.0	1.00	1.00	1.0000	051412
37	CCV	Unknown	1	10.0	1.00	1.00	1.0000	051412
38	CCB	Unknown	2	10.0	1.00	1.00	1.0000	051412
39	1206220-01ADF1000	Unknown	10	10.0	1.00	1.00	1000.0000	051412
40	CCV	Unknown	1	10.0	1.00	1.00	1.0000	051412
41	CCB	Unknown	2	10.0	1.00	1.00	1.0000	051412
42	1205774	Unknown	8	10.0	1.00	1.00	1.0000	051412

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Sequence: 060612
Operator: ALSHS.NoUser
Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 42

Created: 6/6/2012 6:11:38 PM by ALSHS.NoUser
Last Update: 6/18/2012 2:41:02 PM by ALSHS.NoUser

No.	Name	Status	Inj. Date/Time	Program	Comment
1	STD1	Finished	5/14/2012 1:55:15 PM	Anions Gradient Program	
2	STD2	Finished	5/14/2012 2:09:48 PM	Anions Gradient Program	
3	STD3	Finished	5/14/2012 2:24:21 PM	Anions Gradient Program	
4	STD4	Finished	5/14/2012 2:38:54 PM	Anions Gradient Program	
5	STD5	Finished	5/14/2012 2:53:27 PM	Anions Gradient Program	
6	STD6	Finished	5/14/2012 3:07:59 PM	Anions Gradient Program	
7	CCV	Finished	6/6/2012 6:16:44 PM	Anions Gradient Program	
8	CCB	Finished	6/6/2012 6:31:16 PM	Anions Gradient Program	
9	WBLKS1-060412	Interrupted	6/4/2012 7:08:12 PM	Anions Gradient Program	
10	WLCSS1-060412	Finished	6/6/2012 6:54:09 PM	Anions Gradient Program	
11	WLCSDS1-060412	Finished	6/6/2012 7:08:42 PM	Anions Gradient Program	
12	1206199-01B	Finished	6/6/2012 7:23:15 PM	Anions Gradient Program	
13	1206181-01G	Finished	6/6/2012 7:37:47 PM	Anions Gradient Program	
14	1206192-01F	Finished	6/6/2012 7:52:19 PM	Anions Gradient Program	
15	1206195-01H	Finished	6/6/2012 8:06:52 PM	Anions Gradient Program	
16	1206207-01F	Finished	6/6/2012 8:21:25 PM	Anions Gradient Program	
17	1206182-01G	Finished	6/6/2012 8:35:58 PM	Anions Gradient Program	
18	1206198-01H	Finished	6/6/2012 8:50:31 PM	Anions Gradient Program	
19	CCV	Finished	6/6/2012 9:05:04 PM	Anions Gradient Program	
20	CCB	Finished	6/6/2012 9:19:37 PM	Anions Gradient Program	
21	1206199-02B	Finished	6/6/2012 9:34:10 PM	Anions Gradient Program	
22	1206199-03B	Finished	6/6/2012 9:48:42 PM	Anions Gradient Program	
23	1206205-01F	Finished	6/6/2012 10:03:15 PM	Anions Gradient Program	
24	1206199-04B	Finished	6/6/2012 10:17:48 PM	Anions Gradient Program	
25	1206199-05B	Finished	6/6/2012 10:32:20 PM	Anions Gradient Program	
26	1206199-06B	Finished	6/6/2012 10:46:53 PM	Anions Gradient Program	
27	1206211-06C	Finished	6/6/2012 11:01:26 PM	Anions Gradient Program	
28	1206211-02C	Finished	6/6/2012 11:15:59 PM	Anions Gradient Program	
29	1206211-05C	Finished	6/6/2012 11:30:32 PM	Anions Gradient Program	
30	1206211-01C	Finished	6/6/2012 11:45:05 PM	Anions Gradient Program	
31	CCV	Finished	6/6/2012 11:59:38 PM	Anions Gradient Program	
32	CCB	Finished	6/7/2012 12:14:11 AM	Anions Gradient Program	
33	1206211-04C	Finished	6/7/2012 12:28:43 AM	Anions Gradient Program	
34	1206211-03C	Finished	6/7/2012 12:43:16 AM	Anions Gradient Program	
35	1206211-03CMS	Finished	6/7/2012 12:57:48 AM	Anions Gradient Program	
36	1206211-03CMSD	Finished	6/7/2012 1:12:20 AM	Anions Gradient Program	
37	CCV	Finished	6/7/2012 1:26:54 AM	Anions Gradient Program	
38	CCB	Finished	6/7/2012 1:41:27 AM	Anions Gradient Program	
39	1206220-01ADF1000	Finished	6/7/2012 11:51:34 AM	Anions Gradient Program	
40	CCV	Finished	6/7/2012 12:06:07 PM	Anions Gradient Program	
41	CCB	Finished	6/7/2012 12:20:40 PM	Anions Gradient Program	
42	1205774	Finished	6/13/2012 12:14:54 PM	Anions Gradient Program	

Chromeleon © Dionex Corporation, Version 6.80 SR8 Build 2623 (156243)

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

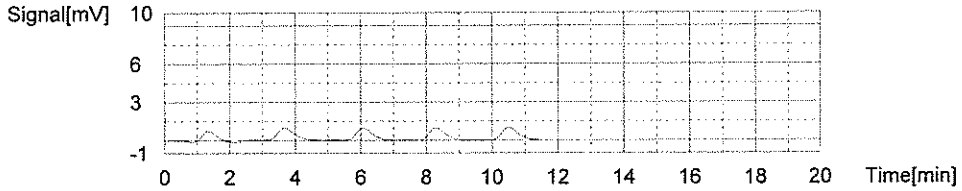
Sample Name:	Untitled
Sample ID:	Untitled
Cal. Curve:	ASI-V 032112CAL.2012_03_21_10_26_58.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	3.044	50uL	1	*******		3/21/2012 10:34:55 AM
2	3.427	50uL	1	*******	E	3/21/2012 10:37:32 AM
3	3.227	50uL	1	*******		3/21/2012 10:39:59 AM
4	3.163	50uL	1	*******		3/21/2012 10:42:23 AM
5	3.207	50uL	1	*******		3/21/2012 10:44:45 AM

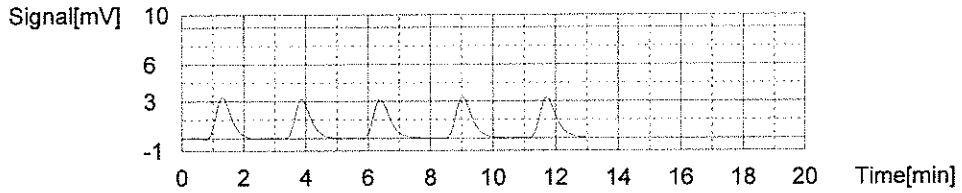
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	3.160



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	11.93	50uL	1	*******		3/21/2012 10:53:10 AM
2	11.15	50uL	1	*******	E	3/21/2012 10:55:50 AM
3	11.65	50uL	1	*******		3/21/2012 10:58:40 AM
4	12.18	50uL	1	*******		3/21/2012 11:01:31 AM
5	11.99	50uL	1	*******		3/21/2012 11:04:18 AM

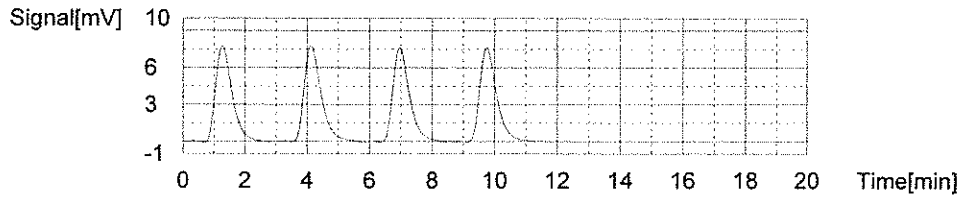
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	11.94



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	29.52	50uL	1	*******		3/21/2012 11:12:57 AM
2	29.56	50uL	1	*******		3/21/2012 11:15:59 AM
3	28.49	50uL	1	*******		3/21/2012 11:18:55 AM
4	28.78	50uL	1	*******		3/21/2012 11:21:58 AM

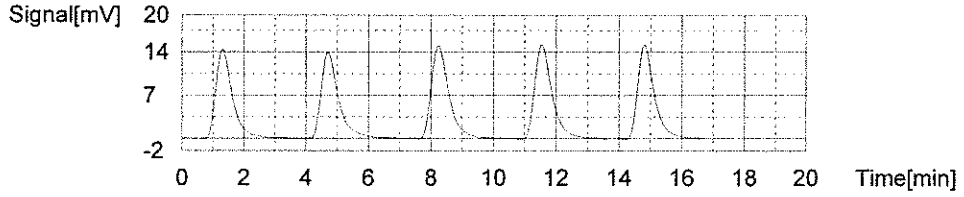
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 29.09



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	54.28	50uL	1	*******		3/21/2012 11:31:17 AM
2	54.85	50uL	1	*******		3/21/2012 11:34:58 AM
3	59.91	50uL	1	*******	E	3/21/2012 11:38:29 AM
4	59.21	50uL	1	*******		3/21/2012 11:41:57 AM
5	56.92	50uL	1	*******		3/21/2012 11:45:23 AM

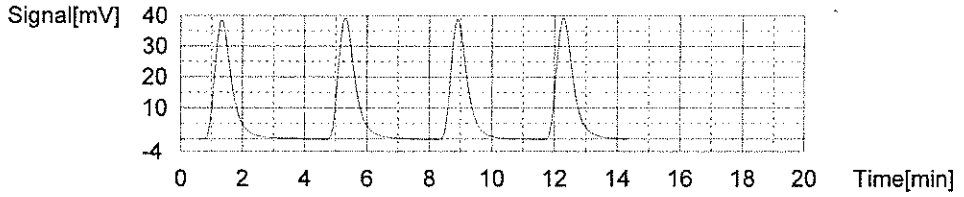
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 56.31



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	148.3	50uL	1	*******		3/21/2012 11:55:13 AM
2	148.5	50uL	1	*******		3/21/2012 11:59:01 AM
3	142.5	50uL	1	*******		3/21/2012 12:02:33 PM
4	148.2	50uL	1	*******		3/21/2012 12:06:10 PM

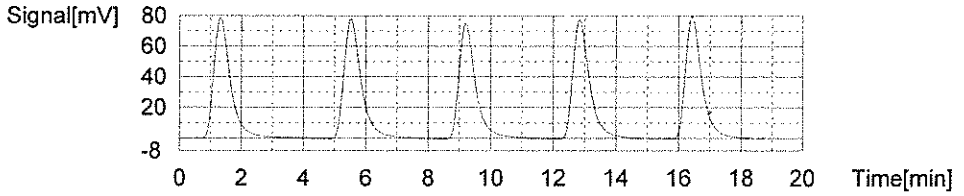
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 146.9



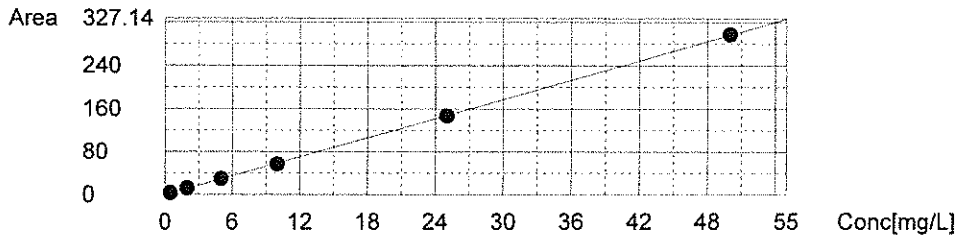
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	298.2	50uL	1	*******		3/21/2012 12:16:17 PM
2	300.0	50uL	1	*******		3/21/2012 12:20:11 PM
3	276.7	50uL	1	*******	E	3/21/2012 12:23:59 PM
4	293.3	50uL	1	*******		3/21/2012 12:27:45 PM
5	298.1	50uL	1	*******		3/21/2012 12:31:34 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 297.4



Slope:	5.950
Intercept	-0.9287
r^2	0.9999
r	0.9999
Zero Shift	No



	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:8.824mg/L	
2	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.3399mg/L	
3	Unknown	NPOC	WBLKW1-061112	Untitled	032312.met	NPOC:-0.3812mg/L	
4	Unknown	NPOC	WLCSW1-061112	Untitled	032312.met	NPOC:8.990mg/L	
5	Unknown	NPOC	WLCSDW1-061112	Untitled	032312.met	NPOC:9.146mg/L	
6	Unknown	NPOC	1206199-01D	Untitled	032312.met	NPOC:0.6942mg/L	
7	Unknown	NPOC	1206199-01DMS	Untitled	032312.met	NPOC:9.926mg/L	
8	Unknown	NPOC	1206199-01DMSD	Untitled	032312.met	NPOC:9.960mg/L	
9	Unknown	NPOC	1206199-02D	Untitled	032312.met	NPOC:0.8867mg/L	
10	Unknown	NPOC	1206199-03D	Untitled	032312.met	NPOC:0.4880mg/L	
11	Unknown	NPOC	1206199-04D	Untitled	032312.met	NPOC:3.273mg/L	
12	Unknown	NPOC	1206199-05D	Untitled	032312.met	NPOC:1.794mg/L	
13	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.357mg/L	
14	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.3620mg/L	
15	Unknown	NPOC	1206199-06D	Untitled	032312.met	NPOC:1.405mg/L	
16	Unknown	NPOC	1206199-01C	Untitled	032312.met	NPOC:0.2363mg/L	
17	Unknown	NPOC	1206199-01CMS	Untitled	032312.met	NPOC:9.779mg/L	
18	Unknown	NPOC	1206199-01CMSD	Untitled	032312.met	NPOC:9.826mg/L	
19	Unknown	NPOC	1206199-02C	Untitled	032312.met	NPOC:0.3611mg/L	
20	Unknown	NPOC	1206199-03C	Untitled	032312.met	NPOC:0.3535mg/L	
21	Unknown	NPOC	1206199-04C	Untitled	032312.met	NPOC:2.925mg/L	
22	Unknown	NPOC	1206199-05C	Untitled	032312.met	NPOC:1.319mg/L	
23	Unknown	NPOC	1206199-06C	Untitled	032312.met	NPOC:1.158mg/L	
24	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.454mg/L	
25	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.3426mg/L	

	Status	Date / Time	Vial
1	Completed	6/11/2012 12:09:39 PM	1
2	Completed	6/11/2012 12:24:03 PM	2
3	Completed	6/11/2012 12:35:58 PM	3
4	Completed	6/11/2012 12:53:10 PM	4
5	Completed	6/11/2012 1:10:27 PM	5
6	Completed	6/11/2012 1:24:55 PM	6
7	Completed	6/11/2012 1:38:56 PM	7
8	Completed	6/11/2012 1:53:02 PM	8
9	Completed	6/11/2012 2:07:37 PM	9
10	Completed	6/11/2012 2:21:53 PM	10
11	Completed	6/11/2012 2:37:21 PM	11
12	Completed	6/11/2012 2:52:12 PM	12
13	Completed	6/11/2012 3:06:01 PM	13
14	Completed	6/11/2012 3:20:07 PM	14
15	Completed	6/11/2012 3:34:50 PM	15
16	Completed	6/11/2012 3:48:51 PM	16
17	Completed	6/11/2012 4:02:18 PM	17
18	Completed	6/11/2012 4:15:56 PM	18
19	Completed	6/11/2012 4:30:04 PM	19
20	Completed	6/11/2012 4:44:07 PM	20
21	Completed	6/11/2012 4:59:10 PM	21
22	Completed	6/11/2012 5:13:43 PM	22
23	Completed	6/11/2012 5:28:09 PM	23
24	Completed	6/11/2012 5:44:18 PM	24
25	Completed	6/11/2012 5:58:19 PM	25

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

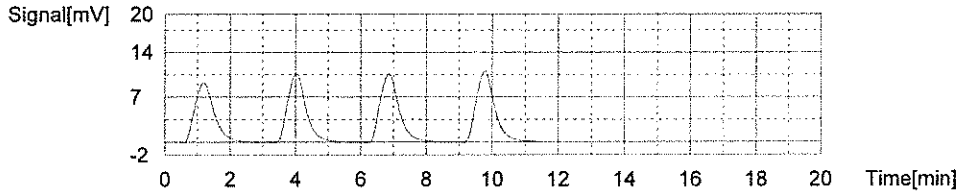
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.824mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.98	7.989mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:00:26 PM
2	42.05	8.656mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:03:28 PM
3	42.88	8.836mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:06:33 PM
4	43.55	8.982mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:09:39 PM

Mean Area	42.83
Mean Conc.	8.824mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

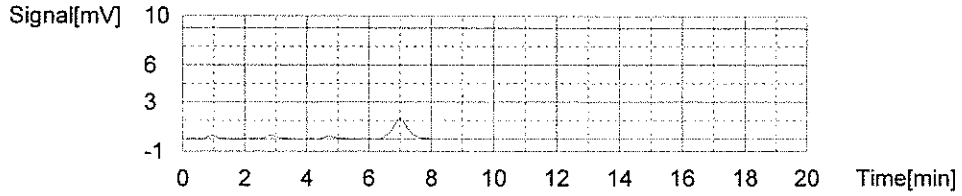
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3399mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.7171	-0.3220mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:17:25 PM
2	0.6912	-0.3276mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:19:30 PM
3	0.4956	-0.3701mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:21:35 PM
4	5.723	0.7653mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:24:03 PM

Mean Area 0.6346
Mean Conc. -0.3399mg/L



Sample

Sample Name: WBLKW1-061112
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

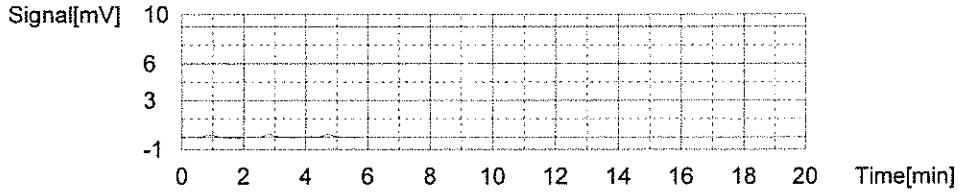
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3812mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4680	-0.3761mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:31:48 PM
2	0.4349	-0.3833mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:33:53 PM
3	0.4308	-0.3842mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:35:58 PM

Mean Area 0.4446
Mean Conc. -0.3812mg/L



Sample

Sample Name: WLCSW1-061112
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

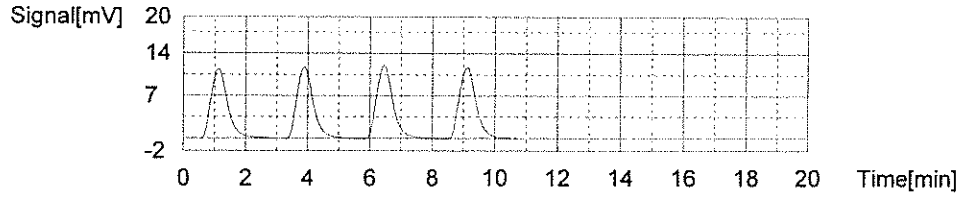
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.990mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	41.64	8.567mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:44:41 PM
2	42.93	8.847mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:47:25 PM
3	43.83	9.042mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:50:15 PM
4	44.01	9.082mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 12:53:10 PM

Mean Area 43.59
Mean Conc. 8.990mg/L



Sample

Sample Name: WLCSDW1-061112
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

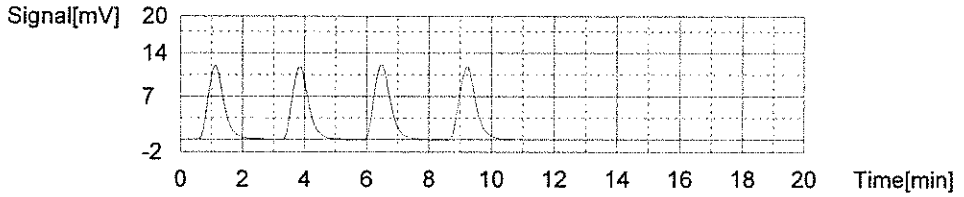
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.146mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	42.35	8.721mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:01:45 PM
2	43.53	8.977mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:04:34 PM
3	44.77	9.247mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:07:29 PM
4	44.62	9.214mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:10:27 PM

Mean Area 44.31
Mean Conc. 9.146mg/L



Sample

Sample Name: 1206199-01D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

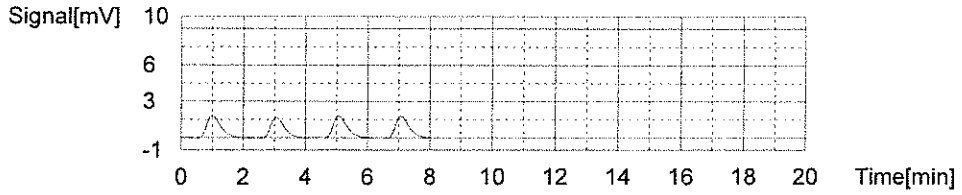
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6942mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.835	0.7897mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:18:22 PM
2	5.324	0.6787mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:20:34 PM
3	5.435	0.7028mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:22:45 PM
4	5.428	0.7013mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:24:55 PM

Mean Area 5.396
Mean Conc. 0.6942mg/L



Sample

Sample Name: 1206199-01DMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

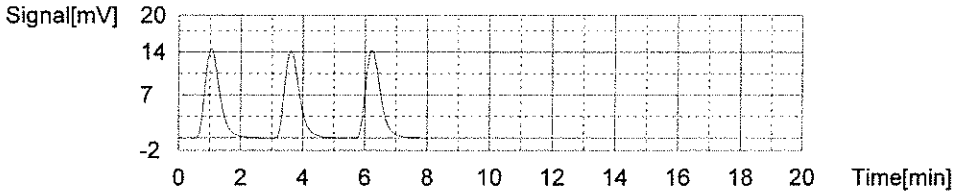
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.926mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.12	9.974mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:33:22 PM
2	47.58	9.857mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:36:09 PM
3	48.00	9.948mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:38:56 PM

Mean Area 47.90
Mean Conc. 9.926mg/L



Sample

Sample Name: 1206199-01DMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

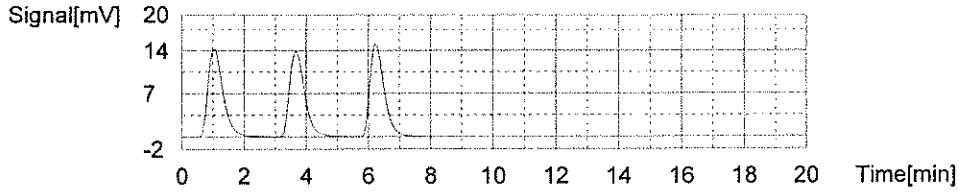
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.960mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.03	9.955mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:47:29 PM
2	47.83	9.911mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:50:16 PM
3	48.30	10.01mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 1:53:02 PM

Mean Area 48.05
Mean Conc. 9.960mg/L



Sample

Sample Name: 1206199-02D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

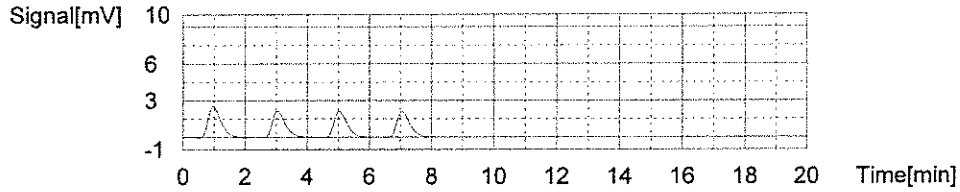
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8867mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.482	1.147mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:01:03 PM
2	6.314	0.8937mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:03:13 PM
3	6.249	0.8796mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:05:25 PM
4	6.282	0.8867mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:07:37 PM

Mean Area 6.282
Mean Conc. 0.8867mg/L



Sample

Sample Name: 1206199-03D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

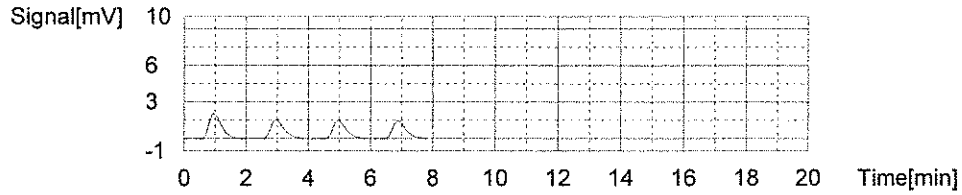
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4880mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.894	0.8025mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:15:28 PM
2	4.551	0.5108mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:17:39 PM
3	4.411	0.4804mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:19:45 PM
4	4.377	0.4730mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:21:53 PM

Mean Area 4.446
Mean Conc. 0.4880mg/L



Sample

Sample Name: 1206199-04D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

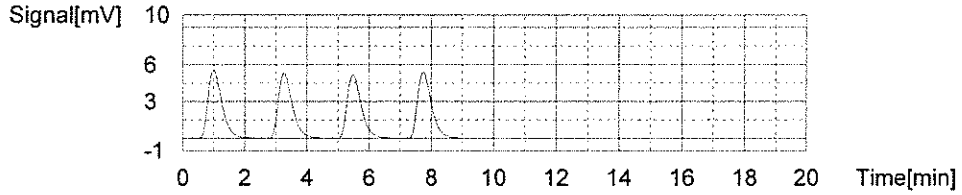
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.273mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.53	3.330mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:30:00 PM
2	16.87	3.187mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:32:24 PM
3	16.62	3.132mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:34:51 PM
4	17.40	3.302mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:37:21 PM

Mean Area 17.27
Mean Conc. 3.273mg/L



Sample

Sample Name: 1206199-05D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

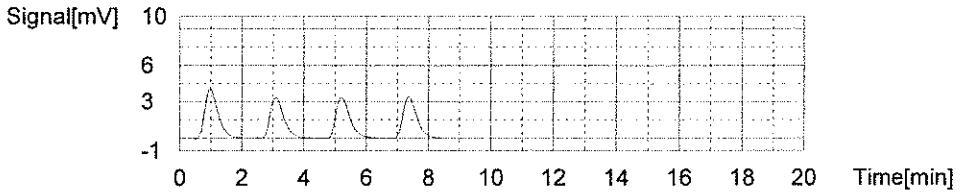
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.794mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.06	2.142mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:45:19 PM
2	10.35	1.770mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:47:37 PM
3	10.39	1.779mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:49:57 PM
4	10.64	1.833mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 2:52:12 PM

Mean Area 10.46
Mean Conc. 1.794mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

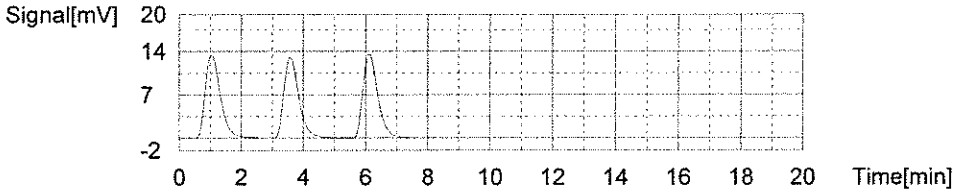
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.357mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45.64	9.436mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:00:36 PM
2	44.35	9.155mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:03:19 PM
3	45.84	9.479mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:06:01 PM

Mean Area 45.28
Mean Conc. 9.357mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

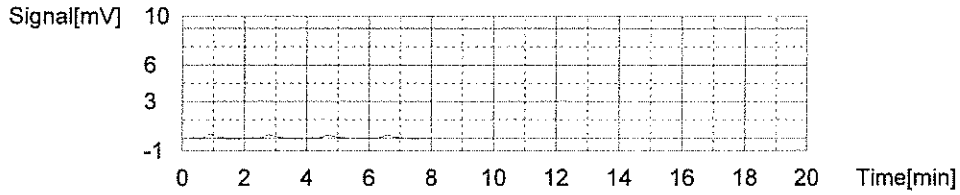
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3620mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8199	-0.2997mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:13:52 PM
2	0.5937	-0.3488mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:15:57 PM
3	0.4963	-0.3699mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:18:02 PM
4	0.5081	-0.3674mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:20:07 PM

Mean Area 0.5327
Mean Conc. -0.3620mg/L



Sample

Sample Name: 1206199-06D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

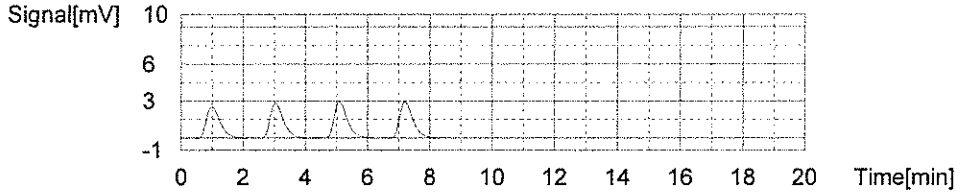
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.405mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.848	1.227mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:28:02 PM
2	8.549	1.379mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:30:17 PM
3	8.681	1.408mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:32:34 PM
4	8.778	1.429mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:34:50 PM

Mean Area 8.669
Mean Conc. 1.405mg/L



Sample

Sample Name: 1206199-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

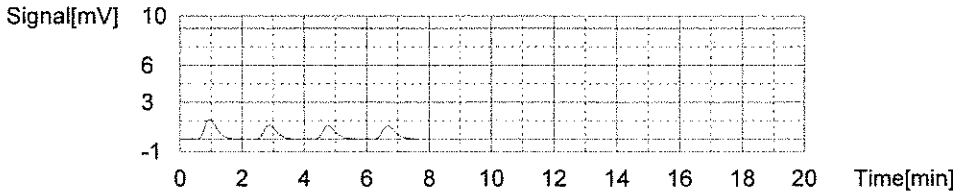
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2363mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.600	0.5214mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:42:36 PM
2	3.401	0.2610mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:44:41 PM
3	3.259	0.2301mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:46:46 PM
4	3.202	0.2177mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:48:51 PM

Mean Area 3.287
Mean Conc. 0.2363mg/L



Sample

Sample Name: 1206199-01CMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

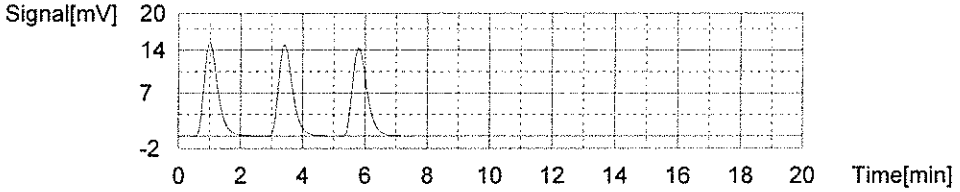
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.779mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.08	9.748mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:57:07 PM
2	47.30	9.796mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 3:59:40 PM
3	47.28	9.792mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:02:18 PM

Mean Area 47.22
Mean Conc. 9.779mg/L



Sample

Sample Name: 1206199-01CMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

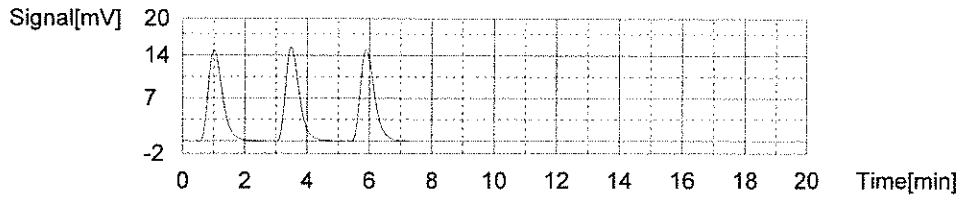
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.826mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.12	9.757mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:10:44 PM
2	47.10	9.753mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:13:19 PM
3	48.09	9.968mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:15:56 PM

Mean Area 47.44
Mean Conc. 9.826mg/L



Sample

Sample Name: 1206199-02C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

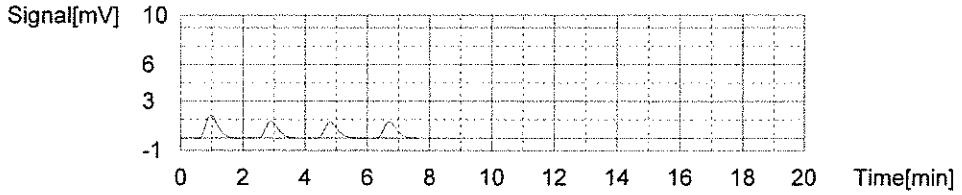
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3611mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.320	0.6778mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:23:48 PM
2	3.932	0.3763mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:25:53 PM
3	3.773	0.3418mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:27:58 PM
4	3.881	0.3652mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:30:04 PM

Mean Area 3.862
Mean Conc. 0.3611mg/L



Sample

Sample Name: 1206199-03C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

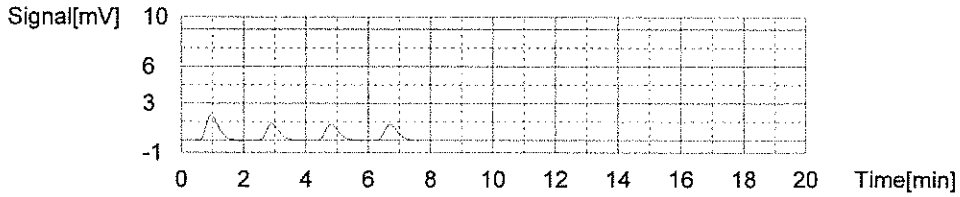
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3535mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.801	0.7823mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:37:51 PM
2	3.952	0.3807mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:39:56 PM
3	3.729	0.3322mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:42:01 PM
4	3.800	0.3476mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:44:07 PM

Mean Area 3.827
Mean Conc. 0.3535mg/L



Sample

Sample Name: 1206199-04C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

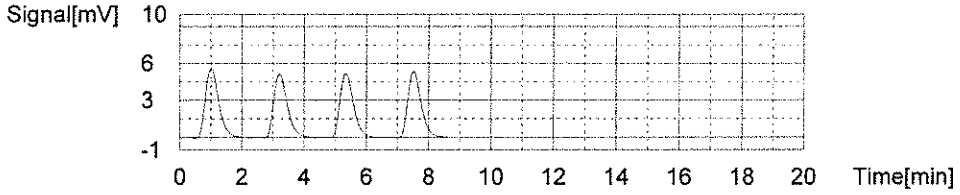
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.925mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.98	3.210mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:52:10 PM
2	15.53	2.895mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:54:29 PM
3	15.62	2.915mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:56:51 PM
4	15.85	2.965mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 4:59:10 PM

Mean Area 15.67
Mean Conc. 2.925mg/L



Sample

Sample Name: 1206199-05C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

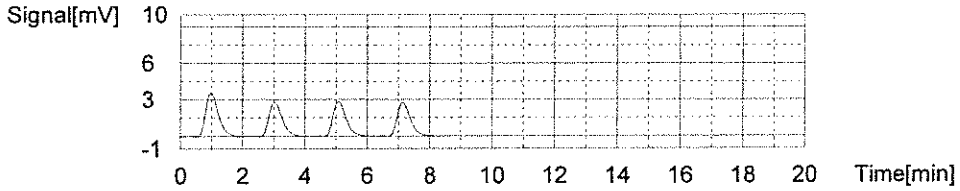
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.319mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.21	1.740mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:07:03 PM
2	8.367	1.340mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:09:18 PM
3	8.356	1.337mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:11:32 PM
4	8.093	1.280mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:13:43 PM

Mean Area 8.272
Mean Conc. 1.319mg/L



Sample

Sample Name: 1206199-06C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

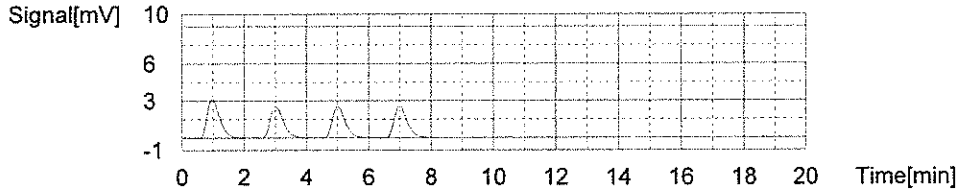
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.158mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.175	1.515mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:21:36 PM
2	7.636	1.181mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:23:47 PM
3	7.404	1.130mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:25:57 PM
4	7.550	1.162mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:28:09 PM

Mean Area 7.530
Mean Conc. 1.158mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

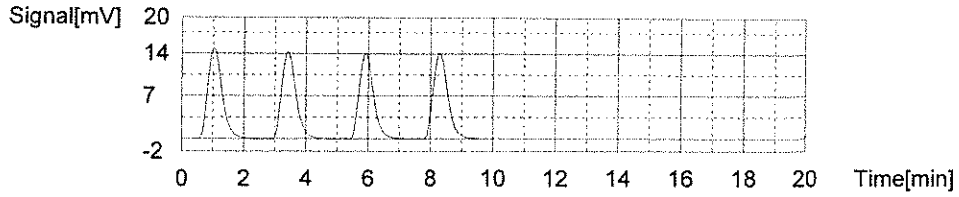
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.454mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.34	9.805mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:36:23 PM
2	46.09	9.533mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:39:03 PM
3	45.32	9.366mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:41:37 PM
4	45.76	9.462mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:44:18 PM

Mean Area 45.72
Mean Conc. 9.454mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

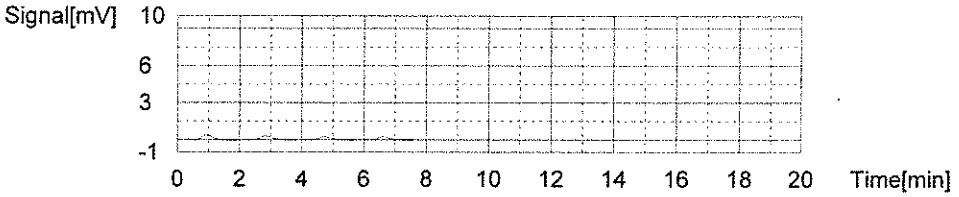
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3426mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9682	-0.2674mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:52:04 PM
2	0.6879	-0.3283mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:54:09 PM
3	0.5808	-0.3516mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:56:14 PM
4	0.5984	-0.3478mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	6/11/2012 5:58:19 PM

Mean Area 0.6224
Mean Conc. -0.3426mg/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------Jones Road Groundwater Plume

Sample Collection Date(s)-- 07/17/12

Contact---------- Gary Baumgarten (6SF-RA)

Report Date---------- 08/21/12

Project #---------- 12SF143

Work Order(s)---------- 1207009

Analyses included in this report:

Metals ICP CLP (Dissolved)
Metals ICP/MS CLP (Dissolved)
VOA CLP Routine List

Report Narrative

Volatiles:

Acetone is qualified as estimated, where reported, due to failure of this analyte in the alternate source check for the calibration.

Tetrachloroethene is qualified as estimated in samples 1207009-02 and 1207009-03 due to inconsistent concentrations found between vials used for analysis.

Vinyl chloride is qualified as estimated in sample 1207009-04 because the value reported is above the calibration range and could not be reported from another dilution.

Trichlorethene recovery and RPD fail high in the MSD and two additional RPDs fail high for the pair. It appears that more spike was added to the MSD than the MS, causing the failures. No bias was placed on source results for Trichloroethene.

Three analytes fail low in BS2 but were not found in the samples.

ICP Metals:

Report Narrative (cont'd)

Batch: B2G2407: MS1/MSD1: The spike recovery for potassium is high and spike recovery for silver is low.The results are qualified and are estimated.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Jones Road Groundwater Plume Project Number: 12SF143

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____
Signature Date

Please provide a reason for holding:

Environmental Protection Agency

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ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
IW-03	1207009-01	Liquid	7/17/12 10:40	07/18/12 13:20
MW-01	1207009-02	Liquid	7/17/12 16:37	07/18/12 13:20
OB-01	1207009-03	Liquid	7/17/12 15:21	07/18/12 13:20
OB-02	1207009-04	Liquid	7/17/12 17:28	07/18/12 13:20
SVE-02	1207009-05	Liquid	7/17/12 12:22	07/18/12 13:20
SVE-02 D	1207009-06	Liquid	7/17/12 12:22	07/18/12 13:20
Trip Blank 1	1207009-07	Liquid	7/17/12 6:00	07/18/12 13:20

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-01 **Station ID: IW-03**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	47.9		95.9	81-124	07/19/12	07/19/12
Surr: Toluene-d8	47.9		95.8	86-115	"	"
Surr: 4-Bromofluorobenzene	45.2		90.4	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/19/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**31.7**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**11.8**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-01 **Station ID: IW-03**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	07/19/12	07/19/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**232**		4.0	2	"	07/20/12
2-Hexanone (591-78-6)	U		5.0	1	"	07/19/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-01 **Station ID: IW-03**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**686**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**141,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	U		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	**148**		50.0	"	"	"
Magnesium (7439-95-4)	**13,300**		300	"	"	"
Manganese (7439-96-5)	**11.1**		10.0	"	"	"
Nickel (7440-02-2)	U		40.0	"	"	"
Potassium (7440-09-7)	U	J	2,000	"	"	"
Silver (7440-22-4)	U	J	20.0	"	"	"
Sodium (7440-23-5)	**81,000**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-01 **Station ID: IW-03**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-02 **Station ID: MW-01**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	51.8		104	81-124	07/19/12	07/20/12
Surr: Toluene-d8	48.4		96.9	86-115	"	"
Surr: 4-Bromofluorobenzene	42.6		85.3	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/20/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	**84.2**		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	**10.6**		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	**4.1**		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**21.1**		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**6,050**		200	100	"	07/20/12
Methyl tert-butyl ether (1634-04-4)	U		2.0	1	"	07/20/12
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**101**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-02 **Station ID: MW-01**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	1	07/19/12	07/20/12
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**944**	**J**	20.0	10	"	07/19/12
2-Hexanone (591-78-6)	U		5.0	1	"	07/20/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-02 **Station ID: MW-01**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**856**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**140,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	U		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	**5,860**		50.0	"	"	"
Magnesium (7439-95-4)	**15,600**		300	"	"	"
Manganese (7439-96-5)	**445**		10.0	"	"	"
Nickel (7440-02-2)	U		40.0	"	"	"
Potassium (7440-09-7)	U		2,000	"	"	"
Silver (7440-22-4)	U		20.0	"	"	"
Sodium (7440-23-5)	**65,200**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-02 **Station ID: MW-01**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	**57.9**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-03 **Station ID: OB-01**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	51.4		103	81-124	07/19/12	07/20/12
Surr: Toluene-d8	49.4		98.8	86-115	"	"
Surr: 4-Bromofluorobenzene	44.6		89.2	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/20/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	**172**		20.0	10	"	07/19/12
Bromomethane (74-83-9)	U		5.0	1	"	07/20/12
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	**5.3**		2.0	"	"	"
Carbon disulfide (75-15-0)	**4.6**		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	**69.0**	**J**	10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	**13.0**		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**16.3**		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**2,920**		200	100	"	07/20/12
Methyl tert-butyl ether (1634-04-4)	**2.2**		2.0	1	"	07/20/12
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	**955**		50.0	10	"	07/19/12
Chloroform (67-66-3)	U		2.0	1	"	07/20/12
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**159**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-03 **Station ID: OB-01**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	1	07/19/12	07/20/12
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**1,120**	**J**	20.0	10	"	07/19/12
2-Hexanone (591-78-6)	U		5.0	1	"	07/20/12
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-03 **Station ID: OB-01**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**5,090**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**760,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	**63.3**		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	**3,380**		50.0	"	"	"
Magnesium (7439-95-4)	**76,100**		300	"	"	"
Manganese (7439-96-5)	**2,350**		10.0	"	"	"
Nickel (7440-02-2)	**58.3**		40.0	"	"	"
Potassium (7440-09-7)	U		2,000	"	"	"
Silver (7440-22-4)	U		20.0	"	"	"
Sodium (7440-23-5)	**224,000**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-03 **Station ID: OB-01**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	**89.2**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-04 **Station ID: OB-02**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	52.8		106	81-124	07/19/12	07/20/12
Surr: Toluene-d8	50.4		101	86-115	"	"
Surr: 4-Bromofluorobenzene	42.5		85.0	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/20/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	**286**	**J**	4.0	2	"	07/19/12
Bromomethane (74-83-9)	U		5.0	1	"	07/20/12
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	**22.9**		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	**32.1**		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**15,000**		200	100	"	07/20/12
Methyl tert-butyl ether (1634-04-4)	U		2.0	1	"	07/20/12
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**19.3**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-04 **Station ID: OB-02**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	07/19/12	07/20/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**82.8**		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-04 **Station ID: OB-02**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**1,410**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**234,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	U		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	**10,200**		50.0	"	"	"
Magnesium (7439-95-4)	**33,100**		300	"	"	"
Manganese (7439-96-5)	**1,250**		10.0	"	"	"
Nickel (7440-02-2)	U		40.0	"	"	"
Potassium (7440-09-7)	U		2,000	"	"	"
Silver (7440-22-4)	U		20.0	"	"	"
Sodium (7440-23-5)	**83,700**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-04 **Station ID: OB-02**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	**122**		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-05 **Station ID: SVE-02**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	51.5		103	81-124	07/20/12	07/20/12
Surr: Toluene-d8	50.4		101	86-115	"	"
Surr: 4-Bromofluorobenzene	46.7		93.5	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/20/12	07/20/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**17.6**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**6.1**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-05 **Station ID: SVE-02**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	07/20/12	07/20/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**106**		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-05 **Station ID: SVE-02**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**708**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**145,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	U		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	U		50.0	"	"	"
Magnesium (7439-95-4)	**14,000**		300	"	"	"
Manganese (7439-96-5)	U		10.0	"	"	"
Nickel (7440-02-2)	U		40.0	"	"	"
Potassium (7440-09-7)	U		2,000	"	"	"
Silver (7440-22-4)	U		20.0	"	"	"
Sodium (7440-23-5)	**80,100**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

ts

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-05 **Station ID: SVE-02**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-06 **Station ID: SVE-02 D**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	49.0		97.9	81-124	07/19/12	07/19/12
Surr: Toluene-d8	48.0		96.0	86-115	"	"
Surr: 4-Bromofluorobenzene	43.7		87.5	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/19/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**20.3**		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	**6.7**		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-06 **Station ID: SVE-02 D**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	07/19/12	07/19/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	**121**		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Metals (Dissolved) by CLP ILMO5.3 - ICP

Lab ID: 1207009-06 **Station ID: SVE-02 D**

Batch: B2G2407 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Aluminum (7429-90-5)	U		200	2	07/25/12	07/31/12
Barium (7440-39-3)	**646**		20.0	"	"	"
Beryllium (7440-41-7)	U		10.0	"	"	"
Calcium (7440-70-2)	**132,000**		300	"	"	"
Chromium (7440-47-3)	U		20.0	"	"	"
Cobalt (7440-48-4)	U		40.0	"	"	"
Copper (7440-50-8)	U		40.0	"	"	"
Iron (7439-89-6)	U		50.0	"	"	"
Magnesium (7439-95-4)	**12,900**		300	"	"	"
Manganese (7439-96-5)	U		10.0	"	"	"
Nickel (7440-02-2)	U		40.0	"	"	"
Potassium (7440-09-7)	U		2,000	"	"	"
Silver (7440-22-4)	U		20.0	"	"	"
Sodium (7440-23-5)	**72,900**		1,000	"	"	"
Vanadium (7440-62-2)	U		40.0	"	"	"
Zinc (7440-66-6)	U		40.0	"	"	"

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Metals (Dissolved) by CLP ILMO5.3 - ICP/MS

Lab ID: 1207009-06 **Station ID: SVE-02 D**

Batch: B2G2408 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 50ml Sample Qualifiers:

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Antimony (7440-36-0)	U		2.0	4	07/25/12	07/27/12
Arsenic (7440-38-2)	U		2.0	"	"	"
Cadmium (7440-43-9)	U		2.0	"	"	"
Lead (7439-92-1)	U		2.0	"	"	"
Selenium (7782-49-2)	U		2.0	"	"	"
Thallium (7440-28-0)	U		2.0	"	"	"

KD

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-07 **Station ID: Trip Blank 1**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Surrogates

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: 1,2-Dichloroethane-d4	48.5		97.1	81-124	07/19/12	07/19/12
Surr: Toluene-d8	47.2		94.5	86-115	"	"
Surr: 4-Bromofluorobenzene	45.3		90.6	76-115	"	"

Targets

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dichlorodifluoromethane (75-71-8)	U		5.0	1	07/19/12	07/19/12
Chloromethane (74-87-3)	U		5.0	"	"	"
Vinyl chloride (75-01-4)	U		2.0	"	"	"
Bromomethane (74-83-9)	U		5.0	"	"	"
Chloroethane (75-00-3)	U		2.0	"	"	"
Trichlorofluoromethane (75-69-4)	U		2.0	"	"	"
1,1-Dichloroethene (75-35-4)	U		2.0	"	"	"
Carbon disulfide (75-15-0)	U		2.0	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U		2.0	"	"	"
Acetone (67-64-1)	U		10.0	"	"	"
Methylene chloride (75-09-2)	U		2.0	"	"	"
Methyl acetate (79-20-9)	U		2.0	"	"	"
trans-1,2-Dichloroethene (156-60-5)	U		2.0	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U		2.0	"	"	"
Methyl tert-butyl ether (1634-04-4)	U		2.0	"	"	"
1,1-Dichloroethane (75-34-3)	U		2.0	"	"	"
2-Butanone (78-93-3)	U		5.0	"	"	"
Chloroform (67-66-3)	U		2.0	"	"	"
1,2-Dichloroethane (107-06-2)	U		2.0	"	"	"
1,1,1-Trichloroethane (71-55-6)	U		2.0	"	"	"
Cyclohexane (110-82-7)	U		2.0	"	"	"
Carbon tetrachloride (56-23-5)	U		2.0	"	"	"
Benzene (71-43-2)	U		2.0	"	"	"
Trichloroethene (79-01-6)	U		2.0	"	"	"
Methylcyclohexane (108-87-2)	U		2.0	"	"	"
1,2-Dichloropropane (78-87-5)	U		2.0	"	"	"
Bromodichloromethane (75-27-4)	U		2.0	"	"	"

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Volatiles by CLP OLM04.2 - GC/MS

Lab ID: 1207009-07 **Station ID: Trip Blank 1**

Batch: B2G1902 Date Collected: 07/17/12
Sample Type: Liquid Sample Vol: 5ml Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
cis-1,3-Dichloropropene (10061-01-5)	U		2.0	1	07/19/12	07/19/12
trans-1,3-Dichloropropene (10061-02-6)	U		2.0	"	"	"
1,1,2-Trichloroethane (79-00-5)	U		2.0	"	"	"
Dibromochloromethane (124-48-1)	U		2.0	"	"	"
Bromoform (75-25-2)	U		2.0	"	"	"
4-Methyl-2-pentanone (108-10-1)	U		5.0	"	"	"
Toluene (108-88-3)	U		2.0	"	"	"
Tetrachloroethene (127-18-4)	U		2.0	"	"	"
2-Hexanone (591-78-6)	U		5.0	"	"	"
1,2-Dibromoethane (106-93-4)	U		2.0	"	"	"
Chlorobenzene (108-90-7)	U		2.0	"	"	"
Ethylbenzene (100-41-4)	U		2.0	"	"	"
meta-/para-Xylene (na)	U		4.0	"	"	"
ortho-Xylene (95-47-6)	U		2.0	"	"	"
Styrene (100-42-5)	U		2.0	"	"	"
Isopropylbenzene (98-82-8)	U		2.0	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U		2.0	"	"	"
1,3-Dichlorobenzene (541-73-1)	U		2.0	"	"	"
1,4-Dichlorobenzene (106-46-7)	U		2.0	"	"	"
1,2-Dichlorobenzene (95-50-1)	U		2.0	"	"	"
1,2-Dibromo-3-chloropropane (96-12-8)	U		5.0	"	"	"
1,2,4-Trichlorobenzene (120-82-1)	U		5.0	"	"	"

This sample was received at pH 2.
Vinyl Chloride and Styrene may be biased low.

kws

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Blank (B2G1902-BLK1)
Prepared: 7/19/2012 Analyzed: 7/19/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	50.0		50.0	100	81-124
Surr: Toluene-d8	48.1		50.0	96.2	86-115
Surr: 4-Bromofluorobenzene	46.2		50.0	92.3	76-115

Blank (B2G1902-BLK1)
Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0
Methyl acetate	U		2.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Blank (B2G1902-BLK1)

Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
1,1,1-Trichloroethane	U		2.0
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Blank (B2G1902-BLK1)
Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
1,2,4-Trichlorobenzene	U		5.0

Blank (B2G1902-BLK2)
Prepared: 7/20/2012 Analyzed: 7/20/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	52.3		50.0	105	81-124
Surr: Toluene-d8	50.9		50.0	102	86-115
Surr: 4-Bromofluorobenzene	45.4		50.0	90.7	76-115

Blank (B2G1902-BLK2)
Prepared: 7/20/2012 Analyzed: 7/20/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Dichlorodifluoromethane	U		5.0
Chloromethane	U		5.0
Vinyl chloride	U		2.0
Bromomethane	U		5.0
Chloroethane	U		2.0
Trichlorofluoromethane	U		2.0
1,1-Dichloroethene	U		2.0
Carbon disulfide	U		2.0
1,1,2-Trichloro-1,2,2-trifluoroethane	U		2.0
Acetone	U		10.0
Methylene chloride	U		2.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Blank (B2G1902-BLK2)

Prepared: 7/20/2012 Analyzed: 7/20/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Methyl acetate	U		2.0
trans-1,2-Dichloroethene	U		2.0
cis-1,2-Dichloroethene	U		2.0
Methyl tert-butyl ether	U		2.0
1,1-Dichloroethane	U		2.0
2-Butanone	U		5.0
Chloroform	U		2.0
1,2-Dichloroethane	U		2.0
1,1,1-Trichloroethane	U		2.0
Cyclohexane	U		2.0
Carbon tetrachloride	U		2.0
Benzene	U		2.0
Trichloroethene	U		2.0
Methylcyclohexane	U		2.0
1,2-Dichloropropane	U		2.0
Bromodichloromethane	U		2.0
cis-1,3-Dichloropropene	U		2.0
trans-1,3-Dichloropropene	U		2.0
1,1,2-Trichloroethane	U		2.0
Dibromochloromethane	U		2.0
Bromoform	U		2.0
4-Methyl-2-pentanone	U		5.0
Toluene	U		2.0
Tetrachloroethene	U		2.0
2-Hexanone	U		5.0
1,2-Dibromoethane	U		2.0
Chlorobenzene	U		2.0
Ethylbenzene	U		2.0
meta-/para-Xylene	U		4.0

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Blank (B2G1902-BLK2)
Prepared: 7/20/2012 Analyzed: 7/20/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
ortho-Xylene	U		2.0
Styrene	U		2.0
Isopropylbenzene	U		2.0
1,1,2,2-Tetrachloroethane	U		2.0
1,3-Dichlorobenzene	U		2.0
1,4-Dichlorobenzene	U		2.0
1,2-Dichlorobenzene	U		2.0
1,2-Dibromo-3-chloropropane	U		5.0
1,2,4-Trichlorobenzene	U		5.0

LCS (B2G1902-BS1)
Prepared: 7/19/2012 Analyzed: 7/19/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	49.8		50.0	99.6	81-124
Surr: Toluene-d8	49.2		50.0	98.3	86-115
Surr: 4-Bromofluorobenzene	49.2		50.0	98.3	76-115

LCS (B2G1902-BS1)
Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	32.3		5.0	50.0	64.6	64-176
Chloromethane	40.8		5.0	50.0	81.6	70-168
Vinyl chloride	43.3		2.0	50.0	86.6	69-153
Bromomethane	45.5		5.0	50.0	91.1	73-155

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

LCS (B2G1902-BS1)

Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Chloroethane	49.2		2.0	50.0	98.3	68-137
Trichlorofluoromethane	49.2		2.0	50.0	98.5	74-137
1,1-Dichloroethene	62.4		2.0	50.0	125	71-142
Carbon disulfide	59.8		2.0	50.0	120	58-155
1,1,2-Trichloro-1,2,2-trifluoroethane	54.8		2.0	50.0	110	85-142
Acetone	50.1		10.0	50.0	100	46-159
Methylene chloride	52.8		2.0	50.0	106	75-126
Methyl acetate	49.9		2.0	50.0	99.8	70-137
trans-1,2-Dichloroethene	57.9		2.0	50.0	116	73-127
cis-1,2-Dichloroethene	50.7		2.0	50.0	101	83-121
Methyl tert-butyl ether	46.1		2.0	50.0	92.2	82-124
1,1-Dichloroethane	55.2		2.0	50.0	110	81-123
2-Butanone	57.8		5.0	50.0	116	57-153
Chloroform	52.7		2.0	50.0	105	83-119
1,2-Dichloroethane	51.9		2.0	50.0	104	81-120
1,1,1-Trichloroethane	60.2		2.0	50.0	120	82-124
Cyclohexane	60.3		2.0	50.0	121	77-141
Carbon tetrachloride	59.5		2.0	50.0	119	81-124
Benzene	56.6		2.0	50.0	113	80-122
Trichloroethene	55.9		2.0	50.0	112	79-121
Methylcyclohexane	56.6		2.0	50.0	113	86-126
1,2-Dichloropropane	53.8		2.0	50.0	108	82-119
Bromodichloromethane	53.8		2.0	50.0	108	82-118
cis-1,3-Dichloropropene	57.0		2.0	50.0	114	78-120
trans-1,3-Dichloropropene	51.2		2.0	50.0	102	75-123
1,1,2-Trichloroethane	52.2		2.0	50.0	104	81-116
Dibromochloromethane	53.1		2.0	50.0	106	79-112
Bromoform	49.6		2.0	50.0	99.3	76-120

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

LCS (B2G1902-BS1)

Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
4-Methyl-2-pentanone	58.8		5.0	50.0	118	79-130
Toluene	54.8		2.0	50.0	110	81-122
Tetrachloroethene	60.2		2.0	50.0	120	81-120
2-Hexanone	57.3		5.0	50.0	115	69-138
1,2-Dibromoethane	50.0		2.0	50.0	99.9	81-117
Chlorobenzene	55.1		2.0	50.0	110	82-119
Ethylbenzene	56.2		2.0	50.0	112	79-126
meta-/para-Xylene	107		4.0	100	107	73-131
ortho-Xylene	55.6		2.0	50.0	111	79-124
Styrene	55.4		2.0	50.0	111	65-126
Isopropylbenzene	48.4		2.0	50.0	96.8	82-128
1,1,2,2-Tetrachloroethane	48.1		2.0	50.0	96.1	81-117
1,3-Dichlorobenzene	53.2		2.0	50.0	106	82-119
1,4-Dichlorobenzene	51.7		2.0	50.0	103	82-120
1,2-Dichlorobenzene	52.6		2.0	50.0	105	81-117
1,2-Dibromo-3-chloropropane	51.8		5.0	50.0	104	74-122
1,2,4-Trichlorobenzene	53.7		5.0	50.0	107	78-119

LCS (B2G1902-BS2)

Prepared: 7/20/2012 Analyzed: 7/20/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	50.3		50.0	101	81-124
Surr: Toluene-d8	49.0		50.0	98.1	86-115
Surr: 4-Bromofluorobenzene	48.2		50.0	96.3	76-115

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Phone:(281)983-2100 Fax:(281)983-2248

Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

LCS (B2G1902-BS2)

Prepared: 7/20/2012 Analyzed: 7/20/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Dichlorodifluoromethane	23.4		5.0	50.0	46.7 #	64-176
Chloromethane	34.4		5.0	50.0	68.8 #	70-168
Vinyl chloride	37.6		2.0	50.0	75.2	69-153
Bromomethane	41.7		5.0	50.0	83.3	73-155
Chloroethane	42.1		2.0	50.0	84.2	68-137
Trichlorofluoromethane	41.8		2.0	50.0	83.5	74-137
1,1-Dichloroethene	54.7		2.0	50.0	109	71-142
Carbon disulfide	50.7		2.0	50.0	101	58-155
1,1,2-Trichloro-1,2,2-trifluoroethane	46.6		2.0	50.0	93.2	85-142
Acetone	52.3		10.0	50.0	105	46-159
Methylene chloride	50.5		2.0	50.0	101	75-126
Methyl acetate	51.1		2.0	50.0	102	70-137
trans-1,2-Dichloroethene	52.8		2.0	50.0	106	73-127
cis-1,2-Dichloroethene	45.4		2.0	50.0	90.8	83-121
Methyl tert-butyl ether	46.5		2.0	50.0	93.1	82-124
1,1-Dichloroethane	49.8		2.0	50.0	99.7	81-123
2-Butanone	58.0		5.0	50.0	116	57-153
Chloroform	49.3		2.0	50.0	98.6	83-119
1,2-Dichloroethane	50.0		2.0	50.0	100	81-120
1,1,1-Trichloroethane	49.8		2.0	50.0	99.5	82-124
Cyclohexane	46.2		2.0	50.0	92.5	77-141
Carbon tetrachloride	48.4		2.0	50.0	96.8	81-124
Benzene	49.9		2.0	50.0	99.8	80-122
Trichloroethene	47.6		2.0	50.0	95.2	79-121
Methylcyclohexane	43.0		2.0	50.0	86.0	86-126
1,2-Dichloropropane	50.5		2.0	50.0	101	82-119
Bromodichloromethane	49.2		2.0	50.0	98.4	82-118
cis-1,3-Dichloropropene	52.3		2.0	50.0	105	78-120

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

LCS (B2G1902-BS2)

Prepared: 7/20/2012 Analyzed: 7/20/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
trans-1,3-Dichloropropene	50.4		2.0	50.0	101	75-123
1,1,2-Trichloroethane	49.0		2.0	50.0	98.0	81-116
Dibromochloromethane	51.2		2.0	50.0	102	79-112
Bromoform	47.6		2.0	50.0	95.3	76-120
4-Methyl-2-pentanone	57.2		5.0	50.0	114	79-130
Toluene	47.5		2.0	50.0	94.9	81-122
Tetrachloroethene	47.5		2.0	50.0	95.0	81-120
2-Hexanone	56.8		5.0	50.0	114	69-138
1,2-Dibromoethane	48.0		2.0	50.0	95.9	81-117
Chlorobenzene	46.8		2.0	50.0	93.7	82-119
Ethylbenzene	46.2		2.0	50.0	92.4	79-126
meta-/para-Xylene	89.7		4.0	100	89.7	73-131
ortho-Xylene	47.9		2.0	50.0	95.8	79-124
Styrene	47.4		2.0	50.0	94.8	65-126
Isopropylbenzene	39.7		2.0	50.0	79.5 #	82-128
1,1,2,2-Tetrachloroethane	47.5		2.0	50.0	95.0	81-117
1,3-Dichlorobenzene	44.7		2.0	50.0	89.4	82-119
1,4-Dichlorobenzene	44.5		2.0	50.0	88.9	82-120
1,2-Dichlorobenzene	45.0		2.0	50.0	90.1	81-117
1,2-Dibromo-3-chloropropane	46.0		5.0	50.0	92.1	74-122
1,2,4-Trichlorobenzene	46.9		5.0	50.0	93.7	78-119

Matrix Spike (B2G1902-MS1)

Source: 1207009-01 Prepared: 7/19/2012 Analyzed: 7/19/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	48.0		50.0	96.0	81-124

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Matrix Spike (B2G1902-MS1)

Source: 1207009-01 Prepared: 7/19/2012 Analyzed: 7/19/2012

Surrogates (Continued)

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: Toluene-d8	47.6		50.0	95.2	86-115
Surr: 4-Bromofluorobenzene	46.5		50.0	93.0	76-115

Matrix Spike (B2G1902-MS1)

Source: 1207009-01 Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
1,1-Dichloroethene	55.6		2.0	50.0		111	61-145
Benzene	54.3		2.0	50.0		109	76-127
Trichloroethene	64.0		2.0	50.0	11.8	104	71-120
Toluene	52.9		2.0	50.0		106	76-125
Chlorobenzene	54.0		2.0	50.0		108	75-130

Matrix Spike Dup (B2G1902-MSD1)

Source: 1207009-01 Prepared: 7/19/2012 Analyzed: 7/19/2012

Surrogates

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC	%REC Limits
Surr: 1,2-Dichloroethane-d4	45.4		50.0	90.8	81-124
Surr: Toluene-d8	48.2		50.0	96.5	86-115
Surr: 4-Bromofluorobenzene	46.8		50.0	93.7	76-115

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Volatiles by CLP OLM04.2 - GC/MS - Quality Control

Batch: B2G1902 **Sample Type: Liquid**

Matrix Spike Dup (B2G1902-MSD1)

Source: 1207009-01 Prepared: 7/19/2012 Analyzed: 7/19/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,1-Dichloroethene	63.1		2.0	50.0		126	61-145	12.6	14
Benzene	60.9		2.0	50.0		122	76-127	11.5 #	11
Trichloroethene	74.8		2.0	50.0	11.8	126 #	71-120	18.6 #	14
Toluene	60.4		2.0	50.0		121	76-125	13.2 #	13
Chlorobenzene	60.3		2.0	50.0		121	75-130	11.0	13

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Phone:(281)983-2100 Fax:(281)983-2248

Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2G2407 **Sample Type: Liquid**

Blank (B2G2407-BLK1)

Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Aluminum	U		100
Barium	U		10.0
Beryllium	U		5.0
Calcium	U		150
Chromium	U		10.0
Cobalt	U		20.0
Copper	U		20.0
Iron	U		25.0
Magnesium	U		150
Manganese	U		5.0
Nickel	U		20.0
Potassium	U		1,000
Silver	U		10.0
Sodium	U		500
Vanadium	U		20.0
Zinc	29.6		20.0

LCS (B2G2407-BS1)

Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Aluminum	944		100	1,000	94.4	75-125
Barium	1,960		10.0	2,000	98.1	75-125
Beryllium	47.3		5.0	50.0	94.6	75-125
Calcium	87,600		150	100,000	87.6	75-125
Chromium	384		10.0	400	96.0	75-125
Cobalt	194		20.0	200	97.1	75-125

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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2G2407 **Sample Type: Liquid**

LCS (B2G2407-BS1)

Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Copper	398		20.0	400	99.6	75-125
Iron	956		25.0	1,000	95.6	75-125
Magnesium	89,800		150	100,000	89.8	75-125
Manganese	383		5.0	400	95.8	75-125
Nickel	380		20.0	400	94.9	75-125
Potassium	120,000		1,000	100,000	120	75-125
Silver	42.1		10.0	50.0	84.2	75-125
Sodium	113,000		500	100,000	113	75-125
Vanadium	385		20.0	400	96.3	75-125
Zinc	975		20.0	1,000	97.5	75-125

Matrix Spike (B2G2407-MS1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Aluminum	933		200	1,000	34.8	89.8	75-125
Barium	2,610		20.0	2,000	686	96.2	75-125
Beryllium	47.7		10.0	50.0		95.4	75-125
Calcium	231,000		300	100,000	141,000	90.0	75-125
Chromium	390		20.0	400		97.4	75-125
Cobalt	197		40.0	200	1.8	97.4	75-125
Copper	405		40.0	400	17.5	97.0	75-125
Iron	1,100		50.0	1,000	148	95.2	75-125
Magnesium	116,000		300	100,000	13,300	103	75-125
Manganese	397		10.0	400	11.1	96.5	75-125
Nickel	382		40.0	400		95.4	75-125
Potassium	136,000		2,000	100,000	1,940	134 #	75-125

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Metals (Dissolved) by CLP ILMO5.3 - ICP - Quality Control

Batch: B2G2407 **Sample Type: Liquid**

Matrix Spike (B2G2407-MS1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits
Silver	35.2		20.0	50.0		70.3	#	75-125
Sodium	204,000		1,000	100,000	81,000	123		75-125
Vanadium	385		40.0	400	0.5	96.1		75-125
Zinc	985		40.0	1,000	19.4	96.6		75-125

Matrix Spike Dup (B2G2407-MSD1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/31/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit
Aluminum	924		200	1,000	34.8	88.9		75-125	1.03	20
Barium	2,610		20.0	2,000	686	96.0		75-125	0.18	20
Beryllium	47.8		10.0	50.0		95.6		75-125	0.21	20
Calcium	230,000		300	100,000	141,000	89.0		75-125	0.44	20
Chromium	392		20.0	400		98.1		75-125	0.73	20
Cobalt	196		40.0	200	1.8	97.2		75-125	0.24	20
Copper	407		40.0	400	17.5	97.3		75-125	0.33	20
Iron	1,110		50.0	1,000	148	96.4		75-125	1.05	20
Magnesium	115,000		300	100,000	13,300	102		75-125	0.39	20
Manganese	396		10.0	400	11.1	96.3		75-125	0.12	20
Nickel	380		40.0	400		95.1		75-125	0.39	20
Potassium	135,000		2,000	100,000	1,940	133	#	75-125	0.85	20
Silver	34.3		20.0	50.0		68.6	#	75-125	2.41	20
Sodium	205,000		1,000	100,000	81,000	124		75-125	0.49	20
Vanadium	386		40.0	400	0.5	96.4		75-125	0.26	20
Zinc	986		40.0	1,000	19.4	96.6		75-125	0.03	20

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Metals (Dissolved) by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B2G2408 **Sample Type: Liquid**

Blank (B2G2408-BLK1)

Prepared: 7/25/2012 Analyzed: 7/27/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit
Antimony	U		2.0
Arsenic	U		2.0
Cadmium	U		2.0
Lead	U		2.0
Selenium	U		2.0
Thallium	U		2.0

LCS (B2G2408-BS1)

Prepared: 7/25/2012 Analyzed: 7/27/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Antimony	197		2.0	200	98.7	85-115
Arsenic	210		2.0	200	105	85-115
Cadmium	199		2.0	200	99.6	85-115
Lead	197		2.0	200	98.4	85-115
Selenium	213		2.0	200	107	85-115
Thallium	196		2.0	200	98.0	85-115

Matrix Spike (B2G2408-MS1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/27/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Antimony	203		2.0	200	0.03	101	70-130
Arsenic	221		2.0	200		111	70-130
Cadmium	204		2.0	200	0.01	102	70-130

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Phone:(281)983-2100 Fax:(281)983-2248

Metals (Dissolved) by CLP ILMO5.3 - ICP/MS - Quality Control

Batch: B2G2408 **Sample Type: Liquid**

Matrix Spike (B2G2408-MS1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/27/2012

Targets (Continued)

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits
Lead	203		2.0	200	0.7	101	70-130
Selenium	225		2.0	200	1.2	112	70-130
Thallium	201		2.0	200	0.8	100	70-130

Matrix Spike Dup (B2G2408-MSD1)

Source: 1207009-01 Prepared: 7/25/2012 Analyzed: 7/27/2012

Targets

ANALYTE	Result µg/l	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Antimony	204		2.0	200	0.03	102	70-130	0.71	20
Arsenic	224		2.0	200		112	70-130	0.96	20
Cadmium	206		2.0	200	0.01	103	70-130	0.93	20
Lead	208		2.0	200	0.7	104	70-130	2.37	20
Selenium	229		2.0	200	1.2	114	70-130	1.68	20
Thallium	206		2.0	200	0.8	102	70-130	2.36	20

Environmental Protection Agency
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Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 7/18/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-071812-101056-0004
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
IW-03	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35), VOA(35)	6-461700 (HCL pH<2 Ice to 4°C), 6-461701 (HCL pH<2 Ice to 4°C), 6-461702 (HCL pH<2 Ice to 4°C), 6-461703 (HCL pH<2 Ice to 4°C), 6-461704 (HCL pH<2 Ice to 4°C), 6-461705 (HCL pH<2 Ice to 4°C), 6-461706 (HCL pH<2 Ice to 4°C), 6-461707 (HCL pH<2 Ice to 4°C), 6-461708 (HCL pH<2 Ice to 4°C) (9)	IW-03	07/17/2012 10:40	
MW-01	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461727 (HCL pH<2 Ice to 4°C), 6-461728 (HCL pH<2 Ice to 4°C), 6-461729 (HCL pH<2 Ice to 4°C) (3)	MW-01	07/17/2012 16:37	
OB-01	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461719 (HCL pH<2 Ice to 4°C), 6-461720 (HCL pH<2 Ice to 4°C), 6-461721 (HCL pH<2 Ice to 4°C) (3)	OB-01	07/17/2012 15:21	
OB-02	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461723 (HCL pH<2 Ice to 4°C), 6-461724 (HCL pH<2 Ice to 4°C), 6-461725 (HCL pH<2 Ice to 4°C) (3)	OB-02	07/17/2012 17:28	

Sample(s) to be used for Lab QC: IW-03	Shipment for Case Complete? Y
	Samples Transferred From Chain of Custody #
Analysis Key: VOA=VOA	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	7/18/12	Isaiah Harris	7/18/12	13:20						

Sample Temp: 5°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 7/18/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-071812-101056-0004
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
SVE-02	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461711 (HCL pH<2 Ice to 4°C), 6-461712 (HCL pH<2 Ice to 4°C), 6-461713 (HCL pH<2 Ice to 4°C) (3)	SVE-02	07/17/2012 12:22	
SVE-02 D	Ground Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461715 (HCL pH<2 Ice to 4°C), 6-461716 (HCL pH<2 Ice to 4°C), 6-461717 (HCL pH<2 Ice to 4°C) (3)	SVE-02 D	07/17/2012 12:22	
Trip Blank 1	Water/ Justin Suchecki	Grab	VOA(35), VOA(35), VOA(35)	6-461731 (HCL pH<2 Ice to 4°C), 6-461732 (HCL pH<2 Ice to 4°C), 6-461733 (HCL pH<2 Ice to 4°C) (3)	Trip Blank 1	07/17/2012 06:00	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: VOA=VOA

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[illegible]	7/18/12	Isaiah Harris	7/18/12	13:20						

Sample Temp: 5°C

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 7/18/2012
CarrierName: EA Engineering

CHAIN OF CUSTODY RECORD
Site #: TXD000605460

No: 6-071812-101350-0005
Lab: U.S. EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
IW-03	Ground Water/ Justin Suchecki	Grab	DM(35), DM(35)	6-461709 (HNO3 (field filtered) pH<2 Ice), 6-461710 (HNO3 (field filtered) pH<2 Ice) (2)	IW-03	07/17/2012 10:40	
MW-01	Ground Water/ Justin Suchecki	Grab	DM(35)	6-461730 (HNO3 (field filtered) pH<2 Ice) (1)	MW-01	07/17/2012 16:37	
OB-01	Ground Water/ Justin Suchecki	Grab	DM(35)	6-461722 (HNO3 (field filtered) pH<2 Ice) (1)	OB-01	07/17/2012 15:21	
OB-02	Ground Water/ Justin Suchecki	Grab	DM(35)	6-461726 (HNO3 (field filtered) pH<2 Ice) (1)	OB-02	07/17/2012 17:28	
SVE-02	Ground Water/ Justin Suchecki	Grab	DM(35)	6-461714 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02	07/17/2012 12:22	
SVE-02 D	Ground Water/ Justin Suchecki	Grab	DM(35)	6-461718 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02 D	07/17/2012 12:22	

Sample(s) to be used for Lab QC: IW-03

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: DM=TAL Dissolved Metals

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	JS	7/18/12	Isaiah Harris	7/18/12	13:20						

Sample Temp: 5°C

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

J	The identification of the analyte is acceptable; the reported value is an estimate.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
AES	Atomic Emission Spectrometer
CVAA	Cold Vapor Atomic Absorption
ECD	Electron Capture Detector
GC	Gas Chromatograph
GFAA	Graphite Furnace Atomic Absorption
ICP	Inductively Coupled Plasma
MS	Mass Spectrometer
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
TCLP	Toxicity Characteristic Leaching Procedure
U	Undetected
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

ALS Environmental

Work Order: 1207804

Project Name:

Jones Road

EA Engineering, Science and Technology

Teri McMillan
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102
(505) 224-9013

16-Feb-2013

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

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- QC Batch Summary Report
- Gases RSK 175 Raw Data
- Wet Chemistry Raw Data

16-Feb-2013

Teri McMillan
EA Engineering, Science and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102

Tel: (505) 224-9013
Fax: (505) 224-9016

Re: Jones Road Work Order: **1207804**

Dear Teri,

ALS Environmental received 8 samples on 18-Jul-2012 01:25 PM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 156.

Regards,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: 1207804

TRRP Laboratory Data Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	EA Engineering, Science and Technology	**TRRP Laboratory Data Package Cover Page**
Project:	Jones Road	
Work Order:	1207804	

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Patricia L. Lynch

Patricia L. Lynch
Project Manager

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1207804
Reviewer Name: Pat Lynch	Prep Batch Number(s): R131655, R131680, R131686, R131853, R131859, R131861

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			2
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1207804
Reviewer Name: Pat Lynch	Prep Batch Number(s): R131655, R131680, R131686, R131853, R131859, R131861

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1207804
Reviewer Name: Pat Lynch	Prep Batch Number(s): R131655, R131680, R131686, R131853, R131859, R131861

ER#[5]	Description
1	Batch R131686, Anions Method 300, Sample 1207779-04, MS/MSD is for an unrelated sample.
2	Batch R131655, Gases RSK 175, Sample IW – 3, Duplicate RPD was above the control limits for Methane.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: **1207804**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1207804-01	IW - 3	Groundwater		7/17/2012	7/18/2012 13:25	☐
1207804-02	SVE - 2	Groundwater		7/17/2012 12:22	7/18/2012 13:25	☐
1207804-03	SVE - 2 D	Groundwater		7/17/2012 12:22	7/18/2012 13:25	☐
1207804-04	OB - 1	Groundwater		7/17/2012 15:21	7/18/2012 13:25	☐
1207804-05	MW - 1	Groundwater		7/17/2012	7/18/2012 13:25	☐
1207804-06	OB - 2	Groundwater		7/17/2012 17:28	7/18/2012 13:25	☐
1207804-07	Trip Blank 07032012-56	Water		7/17/2012	7/18/2012 13:25	☑
1207804-08	Trip Blank 07032012-55	Water		7/17/2012	7/18/2012 13:25	☑

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: 1207804

Case Narrative

At the request of the client, this report was revised to TRRP Level IV from standard report.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 57132

1207804

EA - NM: EA Engineering, Science and Technology

Project: Jones Road

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Jones Road	A	Gases (RSK-175) Methane,Ethane, Ethene
Work Order	10373	Project Number	143427087	B	Anions (300) SO4, NO2, NO3
Company Name	EA Engineering, Science and Technology	Bill To Company	EA Engineering, Science and Technolo	C	Total TOC (415.1)
Send Report To	Ted McMillan	Invoice Attn	Ted McMillan	D	Dissolved TOC (415.1) → Field Filtered
Address	320 Gold Avenue SW, Suite 1210	Address	320 Gold Avenue SW, Suite 1210	E	
				F	
City/State/Zip	Albuquerque, New Mexico 87102	City/State/Zip	Albuquerque, New Mexico 87102	G	
Phone	(505) 224-9013	Phone	(505) 224-9013	H	
Fax	(505) 224-9016	Fax	(505) 224-9016	I	
e-Mail Address	tmcmillan@eaest.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IW-3	7/17/12		GW	1,3	11	X	X	X	X	Note: Use IW-3 for						
2	SVE-2		1222			5							ms/msd for all parameters				
3	SVE-2D		1222			5							extra volume collected				
4	OB-1		1521			5											
5	(75) ~~8~~ MW-1					5											
6	OB-2		1728			5											
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Justin Sucheckl

Shipment Method:

Required Turnaround Time: (Check Box) Std 10 Bus. Days 7-5 WK Days Other: 2 Wk Days 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
Justin Sucheckl	7/18/12	1325	ALS	5 Day TAT Client will filter.
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
- [x] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other / EDD
- [ ] TRRP Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Sample Receipt Checklist

Client Name: EA - NM

Date/Time Received: 18-Jul-12 13:25

Work Order: 1207804

Received by: RDN

Checklist completed by Johnnie B. Allen (eSignature) 18-Jul-12 (Date)

Reviewed by: Hector Caronado (eSignature) 19-Jul-12 (Date)

Matrices: water

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s): 1.2 C,2.1 C/uc 003

Cooler(s)/Kit(s): 0390/3480

Date/Time sample(s) sent to storage: 7/18/12 17:25

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐

pH adjusted by: -

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

CUSTODY SEAL

405 S. Highway 121, Suite C-100
Lewisville, TX 75067
Telephone: 972-315-3922

EA Engineering, Science, and Technology, Inc. Signature

RW

Date 7/18/12

Sample No. Cooler 98

Seal Broken By

Date

CUSTODY SEAL

405 S. Highway 121, Suite C-100
Lewisville, TX 75067
Telephone: 972-315-3922

EA Engineering, Science, and Technology, Inc. Signature

RW

Date 7/18/12

Sample No. Cooler 98

Seal Broken By

Date

Client: EA Engineering, Science and Technology
Project: Jones Road
WorkOrder: **1207804**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
ug/L	Micrograms per Liter

Analytical Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: IW - 3
Collection Date: 7/17/2012

Work Order: 1207804
Lab ID: 1207804-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES			Method: RSK-175				Analyst: NPI
Ethane	U		0.200	1.00	ug/L	1	7/23/2012 10:08
Ethene	U		0.200	1.00	ug/L	1	7/23/2012 10:08
Methane	**1.86**		**0.200**	**0.500**	**ug/L**	1	7/23/2012 10:08
ANIONS - EPA 300.0 (1993)			Method: E300				Analyst: JKP
Nitrogen, Nitrate (As N)	**2.19**		**0.030**	**0.100**	**mg/L**	1	7/18/2012 19:59
Nitrogen, Nitrite (As N)	**0.0470**	J	**0.030**	**0.100**	**mg/L**	1	7/18/2012 19:59
Sulfate	**13.7**		**0.20**	**0.500**	**mg/L**	1	7/18/2012 19:59
Surr: Selenate (surr)	*107*			*85-115*	*%REC*	1	7/18/2012 19:59
TOC, DISSOLVED - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Dissolved	**0.708**		**0.10**	**0.500**	**mg/L**	1	7/25/2012 03:03
TOTAL ORGANIC CARBON - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Total	**1.63**		**0.10**	**0.500**	**mg/L**	1	7/25/2012 09:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE - 2
Collection Date: 7/17/2012 12:22 PM

Work Order: 1207804
Lab ID: 1207804-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES			Method: **RSK-175**				Analyst: **NPI**
Ethane	U		0.200	1.00	ug/L	1	7/23/2012 10:18
Ethene	U		0.200	1.00	ug/L	1	7/23/2012 10:18
Methane	**0.487**	J	**0.200**	**0.500**	**ug/L**	1	7/23/2012 10:18
ANIONS - EPA 300.0 (1993)			Method: **E300**				Analyst: **JKP**
Nitrogen, Nitrate (As N)	**1.67**		**0.030**	**0.100**	**mg/L**	1	7/19/2012 02:17
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	7/19/2012 02:17
Sulfate	**13.7**		**0.20**	**0.500**	**mg/L**	1	7/19/2012 02:17
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	1	7/19/2012 02:17
TOC, DISSOLVED - SM5310C			Method: **SM5310C**				Analyst: **JKP**
Organic Carbon, Dissolved	**0.852**		**0.10**	**0.500**	**mg/L**	1	7/25/2012 15:41
TOTAL ORGANIC CARBON - SM5310C			Method: **SM5310C**				Analyst: **JKP**
Organic Carbon, Total	**0.461**	J	**0.10**	**0.500**	**mg/L**	1	7/25/2012 10:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE - 2 D
Collection Date: 7/17/2012 12:22 PM

Work Order: 1207804
Lab ID: 1207804-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES			Method: RSK-175				Analyst: NPI
Ethane	U		0.200	1.00	ug/L	1	7/23/2012 10:30
Ethene	U		0.200	1.00	ug/L	1	7/23/2012 10:30
Methane	U		0.200	0.500	ug/L	1	7/23/2012 10:30
ANIONS - EPA 300.0 (1993)			Method: E300				Analyst: JKP
Nitrogen, Nitrate (As N)	**1.68**		**0.030**	**0.100**	**mg/L**	1	7/19/2012 02:38
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	7/19/2012 02:38
Sulfate	**13.5**		**0.20**	**0.500**	**mg/L**	1	7/19/2012 02:38
Surr: Selenate (surr)	*105*			*85-115*	*%REC*	1	7/19/2012 02:38
TOC, DISSOLVED - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Dissolved	**0.760**		**0.10**	**0.500**	**mg/L**	1	7/25/2012 04:04
TOTAL ORGANIC CARBON - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Total	**0.519**		**0.10**	**0.500**	**mg/L**	1	7/25/2012 10:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB - 1
Collection Date: 7/17/2012 03:21 PM

Work Order: 1207804
Lab ID: 1207804-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES			Method: RSK-175				Analyst: NPI
Ethane	8.86		0.200	1.00	ug/L	1	7/23/2012 11:35
Ethene	U		0.200	1.00	ug/L	1	7/23/2012 11:35
Methane	44.8		0.400	1.00	ug/L	2	7/23/2012 12:19
ANIONS - EPA 300.0 (1993)			Method: E300				Analyst: JKP
Nitrogen, Nitrate (As N)	15.2		0.030	0.100	mg/L	1	7/19/2012 08:35
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	7/19/2012 08:35
Sulfate	4.44		0.20	0.500	mg/L	1	7/19/2012 08:35
Surr: Selenate (surr)	*97.6*			*85-115*	*%REC*	1	7/19/2012 08:35
TOC, DISSOLVED - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Dissolved	1,660		10	50.0	mg/L	100	7/25/2012 14:32
TOTAL ORGANIC CARBON - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Total	1,670		10	50.0	mg/L	100	7/25/2012 14:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: MW - 1
Collection Date: 7/17/2012

Work Order: 1207804
Lab ID: 1207804-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: NPI
Ethane	0.580	J	0.200	1.00	ug/L	1	7/23/2012 10:41
Ethene	0.317	J	0.200	1.00	ug/L	1	7/23/2012 10:41
Methane	485		4.00	10.0	ug/L	20	7/23/2012 11:51
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	0.411		0.030	0.100	mg/L	1	7/18/2012 20:20
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	7/18/2012 20:20
Sulfate	1.77		0.20	0.500	mg/L	1	7/18/2012 20:20
Surr: Selenate (surr)	*106*			*85-115*	*%REC*	1	7/18/2012 20:20
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: JKP
Organic Carbon, Dissolved	37.5		0.10	0.500	mg/L	1	7/25/2012 04:41
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: JKP
Organic Carbon, Total	40.4		0.10	0.500	mg/L	1	7/25/2012 11:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB - 2
Collection Date: 7/17/2012 05:28 PM

Work Order: 1207804
Lab ID: 1207804-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES			Method: RSK-175				Analyst: NPI
Ethane	1.81		0.200	1.00	ug/L	1	7/23/2012 10:52
Ethene	2.36		0.200	1.00	ug/L	1	7/23/2012 10:52
Methane	350		4.00	10.0	ug/L	20	7/23/2012 12:08
ANIONS - EPA 300.0 (1993)			Method: E300				Analyst: JKP
Nitrogen, Nitrate (As N)	2.91		0.030	0.100	mg/L	1	7/19/2012 11:45
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	7/19/2012 11:45
Sulfate	0.270	J	0.20	0.500	mg/L	1	7/19/2012 11:45
Surr: Selenate (surr)	*108*			*85-115*	*%REC*	1	7/19/2012 11:45
TOC, DISSOLVED - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Dissolved	230		1.0	5.00	mg/L	10	7/25/2012 14:46
TOTAL ORGANIC CARBON - SM5310C			Method: SM5310C				Analyst: JKP
Organic Carbon, Total	233		1.0	5.00	mg/L	10	7/25/2012 15:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Dates Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

Work Order: 1207804
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R131655	**Test Name:** Dissolved Gases					
1207804-01A	IW - 3	Groundwater	7/17/2012			7/23/2012 10:08 AM
1207804-02A	SVE - 2		7/17/2012 12:22:00 PM			7/23/2012 10:18 AM
1207804-03A	SVE - 2 D					7/23/2012 10:30 AM
1207804-04A	OB - 1		7/17/2012 3:21:00 PM			7/23/2012 11:35 AM
						7/23/2012 12:19 PM
1207804-05A	MW - 1		7/17/2012			7/23/2012 10:41 AM
						7/23/2012 11:51 AM
1207804-06A	OB - 2		7/17/2012 5:28:00 PM			7/23/2012 10:52 AM
						7/23/2012 12:08 PM
Batch ID R131680	**Test Name:** Anions - EPA 300.0 (1993)					
1207804-01B	IW - 3	Groundwater	7/17/2012			7/18/2012 07:59 PM
1207804-02B	SVE - 2		7/17/2012 12:22:00 PM			7/19/2012 02:17 AM
1207804-03B	SVE - 2 D					7/19/2012 02:38 AM
1207804-05B	MW - 1		7/17/2012			7/18/2012 08:20 PM
Batch ID R131686	**Test Name:** Anions - EPA 300.0 (1993)					
1207804-04B	OB - 1	Groundwater	7/17/2012 3:21:00 PM			7/19/2012 08:35 AM
1207804-06B	OB - 2		7/17/2012 5:28:00 PM			7/19/2012 11:45 AM
Batch ID R131853	**Test Name:** TOC, Dissolved - SM5310C					
1207804-01D	IW - 3	Groundwater	7/17/2012			7/25/2012 03:03 AM
1207804-03D	SVE - 2 D		7/17/2012 12:22:00 PM			7/25/2012 04:04 AM
1207804-05D	MW - 1		7/17/2012			7/25/2012 04:41 AM

Work Order: 1207804
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R131859	**Test Name:** Total Organic Carbon - SM5310C					
1207804-01C	IW - 3	Groundwater	7/17/2012			7/25/2012 09:38 AM
1207804-02C	SVE - 2		7/17/2012 12:22:00 PM			7/25/2012 10:24 AM
1207804-03C	SVE - 2 D					7/25/2012 10:38 AM
1207804-04C	OB - 1		7/17/2012 3:21:00 PM			7/25/2012 02:59 PM
1207804-05C	MW - 1		7/17/2012			7/25/2012 11:45 AM
1207804-06C	OB - 2		7/17/2012 5:28:00 PM			7/25/2012 03:13 PM
Batch ID R131861	**Test Name:** TOC, Dissolved - SM5310C					
1207804-02D	SVE - 2	Groundwater	7/17/2012 12:22:00 PM			7/25/2012 03:41 PM
1207804-04D	OB - 1		7/17/2012 3:21:00 PM			7/25/2012 02:32 PM
1207804-06D	OB - 2		7/17/2012 5:28:00 PM			7/25/2012 02:46 PM

Method Detection/Reporting Limits

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1207804
InstrumentID: FID-4
Test Code: RSK-175
Test Number: RSK-175
Test Name: Dissolved Gases

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS	MDL	PQL
A	Ethane	74-84-0	0.376	0.200	1.00
A	Ethene	74-85-1	0.158	0.200	1.00
A	Methane	74-82-8	0.173	0.200	0.500

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1207804
InstrumentID: ICS3000
Test Code: 300_W
Test Number: E300
Test Name: Anions - EPA 300.0 (1993)

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	PQL
A	Nitrogen, Nitrate (As N)	14797-55-8	0.058	0.030	0.10
A	Nitrogen, Nitrite (As N)	14797-65-0	0.040	0.030	0.10
A	Sulfate	14808-79-8	0.019	0.20	0.50
S	Surr: Selenate (surr)	10102-23-5	0	0.10	0.10

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1207804
InstrumentID: TOC_02
Test Code: TOC_Diss_5310C
Test Number: SM5310C
Test Name: TOC, Dissolved - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	PQL
A	Organic Carbon, Dissolved	DOC	0.21	0.10	0.50

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1207804
InstrumentID: TOC_02
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	PQL
A	Organic Carbon, Total	7440-44-0	0.21	0.10	0.50

QC Batch Summary Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131655** Instrument ID **FID-4** Method: **RSK-175**

MBLK Sample ID: **GBLKW1-120723-R131655** Units: **ug/L** Analysis Date: **7/23/2012 08:54 AM**
Client ID: Run ID: **FID-4_120723A** SeqNo: **2869392** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.0								
Ethene	U	1.0								
Methane	U	0.50								

LCS Sample ID: **GLCSW1-120723-R131655** Units: **ug/L** Analysis Date: **7/23/2012 08:31 AM**
Client ID: Run ID: **FID-4_120723A** SeqNo: **2869388** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.97	1.0	18	0	83.1	75-125	0			
Ethene	13.74	1.0	16.8	0	81.8	75-125	0			
Methane	8.369	0.50	9.62	0	87	75-125	0			

LCSD Sample ID: **GLCSDW1-120723-R131655** Units: **ug/L** Analysis Date: **7/23/2012 08:43 AM**
Client ID: Run ID: **FID-4_120723A** SeqNo: **2869390** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	14.65	1.0	18	0	81.4	75-125	14.97	2.13	30	
Ethene	13.49	1.0	16.8	0	80.3	75-125	13.74	1.89	30	
Methane	8.63	0.50	9.62	0	89.7	75-125	8.369	3.07	30	

DUP Sample ID: **1207804-01ADUP** Units: **ug/L** Analysis Date: **7/23/2012 12:40 PM**
Client ID: **IW - 3** Run ID: **FID-4_120723A** SeqNo: **2869435** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.0	0	0	0		0	0	30	
Ethene	U	1.0	0	0	0		0	0	30	
Methane	1.367	0.50	0	0	0		1.859	30.5	30	R

The following samples were analyzed in this batch:

1207804-01A	1207804-02A	1207804-03A
1207804-04A	1207804-05A	1207804-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131680** Instrument ID **ICS3000** Method: **E300** **(Dissolve)**

MBLK Sample ID: **WBLKW1-R131680** Units: **mg/L** Analysis Date: **7/18/2012 05:51 PM**
Client ID: Run ID: **ICS3000_120717F** SeqNo: **2869925** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	0.25	0.50								J
Surr: Selenate (surr)	5.319	0.10	*5*	0	*106*	*85-115*	0			

LCS Sample ID: **WLCSW1-R131680** Units: **mg/L** Analysis Date: **7/18/2012 06:12 PM**
Client ID: Run ID: **ICS3000_120717F** SeqNo: **2869929** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	4.117	0.10	4	0	103	90-110	0			
Nitrogen, Nitrite (As N)	4.129	0.10	4	0	103	90-110	0			
Sulfate	20.09	0.50	20	0	100	90-110	0			
Surr: Selenate (surr)	5.344	0.10	*5*	0	*107*	*85-115*	0			

MS Sample ID: **1207770-09DMS** Units: **mg/L** Analysis Date: **7/19/2012 12:11 AM**
Client ID: Run ID: **ICS3000_120717F** SeqNo: **2869954** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.032	0.10	2	0	102	80-120	0			
Nitrogen, Nitrite (As N)	2.05	0.10	2	0	102	80-120	0			
Sulfate	40.4	0.50	10	31.08	93.2	80-120	0			
Surr: Selenate (surr)	5.294	0.10	*5*	0	*106*	*85-115*	0			

MSD Sample ID: **1207770-09DMSD** Units: **mg/L** Analysis Date: **7/19/2012 12:32 AM**
Client ID: Run ID: **ICS3000_120717F** SeqNo: **2869955** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.004	0.10	2	0	100	80-120	2.032	1.39	20	
Nitrogen, Nitrite (As N)	2.022	0.10	2	0	101	80-120	2.05	1.38	20	
Sulfate	39.9	0.50	10	31.08	88.2	80-120	40.4	1.24	20	
Surr: Selenate (surr)	5.227	0.10	*5*	0	*105*	*85-115*	5.294	*1.27*	*20*	

The following samples were analyzed in this batch:

1207804-01B	1207804-02B	1207804-03B
1207804-05B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131686** Instrument ID **ICS3000** Method: **E300** **(Dissolve)**

MBLK Sample ID: **WBLKW1-R131686** Units: **mg/L** Analysis Date: **7/19/2012 05:47 AM**
Client ID: Run ID: **ICS3000_120717G** SeqNo: **2870061** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	0.215	0.50								J
Surr: Selenate (surr)	5.148	0.10	*5*	0	*103*	*85-115*	0			

LCS Sample ID: **WLCSW2-R131686** Units: **mg/L** Analysis Date: **7/19/2012 06:08 AM**
Client ID: Run ID: **ICS3000_120717G** SeqNo: **2870062** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.97	0.10	4	0	99.2	90-110	0			
Nitrogen, Nitrite (As N)	3.993	0.10	4	0	99.8	90-110	0			
Sulfate	19.26	0.50	20	0	96.3	90-110	0			
Surr: Selenate (surr)	5.137	0.10	*5*	0	*103*	*85-115*	0			

MS Sample ID: **1207779-04DMS** Units: **mg/L** Analysis Date: **7/19/2012 10:41 AM**
Client ID: Run ID: **ICS3000_120717G** SeqNo: **2870075** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.133	0.10	2	0	107	80-120	0			
Nitrogen, Nitrite (As N)	2.164	0.10	2	0	108	80-120	0			
Sulfate	218.4	0.50	10	211.9	64.6	80-120	0			SEO
Surr: Selenate (surr)	5.609	0.10	*5*	0	*112*	*85-115*	0			

MSD Sample ID: **1207779-04DMSD** Units: **mg/L** Analysis Date: **7/19/2012 11:02 AM**
Client ID: Run ID: **ICS3000_120717G** SeqNo: **2870076** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	2.119	0.10	2	0	106	80-120	2.133	0.659	20	
Nitrogen, Nitrite (As N)	2.15	0.10	2	0	108	80-120	2.164	0.649	20	
Sulfate	217	0.50	10	211.9	50.5	80-120	218.4	0.646	20	SEO
Surr: Selenate (surr)	5.572	0.10	*5*	0	*111*	*85-115*	5.609	*0.662*	*20*	

The following samples were analyzed in this batch: 1207804-04B 1207804-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131853** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW1-R131853** Units: **mg/L** Analysis Date: **7/25/2012 02:31 AM**
Client ID: Run ID: **TOC_02_120725A** SeqNo: **2874226** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	U	0.50								

LCS Sample ID: **WLCSW1-R131853** Units: **mg/L** Analysis Date: **7/25/2012 02:47 AM**
Client ID: Run ID: **TOC_02_120725A** SeqNo: **2874227** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.09	0.50	10	0	90.9	80-120	0			

MS Sample ID: **1207804-01DMS** Units: **mg/L** Analysis Date: **7/25/2012 03:18 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725A** SeqNo: **2874229** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	10.77	0.50	10	0.7078	101	80-120	0			

MSD Sample ID: **1207804-01DMSD** Units: **mg/L** Analysis Date: **7/25/2012 03:34 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725A** SeqNo: **2874230** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	10.74	0.50	10	0.7078	100	80-120	10.77	0.279	20	

The following samples were analyzed in this batch:

1207804-01D	1207804-02D	1207804-03D
1207804-04D	1207804-05D	1207804-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131859** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW2-R131859** Units: **mg/L** Analysis Date: **7/25/2012 08:58 AM**
Client ID: Run ID: **TOC_02_120725D** SeqNo: **2874388** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.50								

LCS Sample ID: **WLCSW2-R131859** Units: **mg/L** Analysis Date: **7/25/2012 09:12 AM**
Client ID: Run ID: **TOC_02_120725D** SeqNo: **2874389** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.855	0.50	10	0	98.6	80-120	0			

MS Sample ID: **1207804-01CMS** Units: **mg/L** Analysis Date: **7/25/2012 09:53 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725D** SeqNo: **2874392** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.45	0.50	10	1.632	98.2	80-120	0			

MSD Sample ID: **1207804-01CMSD** Units: **mg/L** Analysis Date: **7/25/2012 10:09 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725D** SeqNo: **2874393** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.4	0.50	10	1.632	97.7	80-120	11.45	0.438	20	

The following samples were analyzed in this batch:

1207804-01C	1207804-02C	1207804-03C
1207804-04C	1207804-05C	1207804-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1207804
Project: Jones Road

QC BATCH REPORT

Batch ID: **R131861** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW2-R131861** Units: **mg/L** Analysis Date: **7/25/2012 08:58 AM**
Client ID: Run ID: **TOC_02_120725E** SeqNo: **2874416** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	U	0.50								

LCS Sample ID: **WLCSW2-R131861** Units: **mg/L** Analysis Date: **7/25/2012 09:12 AM**
Client ID: Run ID: **TOC_02_120725E** SeqNo: **2874417** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.855	0.50	10	0	98.6	80-120	0			

MS Sample ID: **1207804-01CMSZ** Units: **mg/L** Analysis Date: **7/25/2012 09:53 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725E** SeqNo: **2874420** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	11.45	0.50	10	1.632	98.2	80-120	0			

MSD Sample ID: **1207804-01CMSDZ** Units: **mg/L** Analysis Date: **7/25/2012 10:09 AM**
Client ID: **IW - 3** Run ID: **TOC_02_120725E** SeqNo: **2874421** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	11.4	0.50	10	1.632	97.7	80-120	11.45	0.438	20	

The following samples were analyzed in this batch: 1207804-02D 1207804-04D 1207804-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Dissolved Gases (RSK 175) Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

FID04-Logbook

Batch: 1125
Date: 10-Jan-12
Method: RSK 175
Comments: Target Sequence 120110

Analyst: Nosa Izekor
Reviewer: Grace Kamau
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	01-10-2012 10:52	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	ICAL1	CALIB_1	01-10-2012 11:27	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	ICAL2	CALIB_2	01-10-2012 11:44	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	ICAL3	CALIB_3	01-10-2012 11:56	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	ICAL4	CALIB_4	01-10-2012 12:09	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	ICAL5	CALIB_5	01-10-2012 12:26	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	ICAL6	CALIB_6	01-10-2012 12:40	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	ICV	METHSPIKE	01-10-2012 12:56	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	GLCSW1-120110	LCS	01-10-2012 13:08	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	GLCSDW1-120110	LCSD	01-10-2012 13:21	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	GBLKW1-120110	MBLK	01-10-2012 14:03	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1201086-22A	SAMP	01-10-2012 14:17	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1201086-23A	SAMP	01-10-2012 14:27	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1201086-24A	SAMP	01-10-2012 15:36	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1201086-25A	SAMP	01-10-2012 15:51	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1201086-26A	SAMP	01-10-2012 16:05	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	1201086-27A	SAMP	01-10-2012 16:18	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	1201195-13A	SAMP	01-10-2012 16:30	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	CCV	CCV	01-10-2012 16:41	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA

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FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1207804

Matrix Spike - ENG SC Sample No.: ICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT (ug/L)	% REC #	QC. LIMITS REC.
Methane	9.620	9.149	95	75-125
Ethane	18.000	17.184	95	75-125
Ethene	16.800	16.216	96	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1207804

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

LAB FILE ID: RF1: 002 RF5: 003 RF10: 004
RF25: 005 RF50: 006

COMPOUND	RF1	RF5	RF10	RF25	RF50
Methane	851.948	819.792	841.039	725.780	693.229
Ethane	786.704	867.867	917.728	762.389	747.978
Ethene	602.374	716.320	735.163	622.917	614.095

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1207804

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

RF100: 007

COMPOUND	RF100	CURVE	COEFFICENT A1	%RSD OR R^2
Methane	709.117	AVRG	773.484059	9.3
Ethane	757.756	AVRG	806.737022	8.6
Ethene	624.748	AVRG	652.602827	8.8

FORM VI GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\002.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 10-JAN-2012 11:27
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:27 Cal File: 002.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.300	2.283	0.017	328	0.38500	0.385(aM)
2 Ethene	3.630	3.643	-0.013	406	0.67400	0.674(aM)
3 Ethane	3.976	3.983	-0.007	568	0.72200	0.722(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

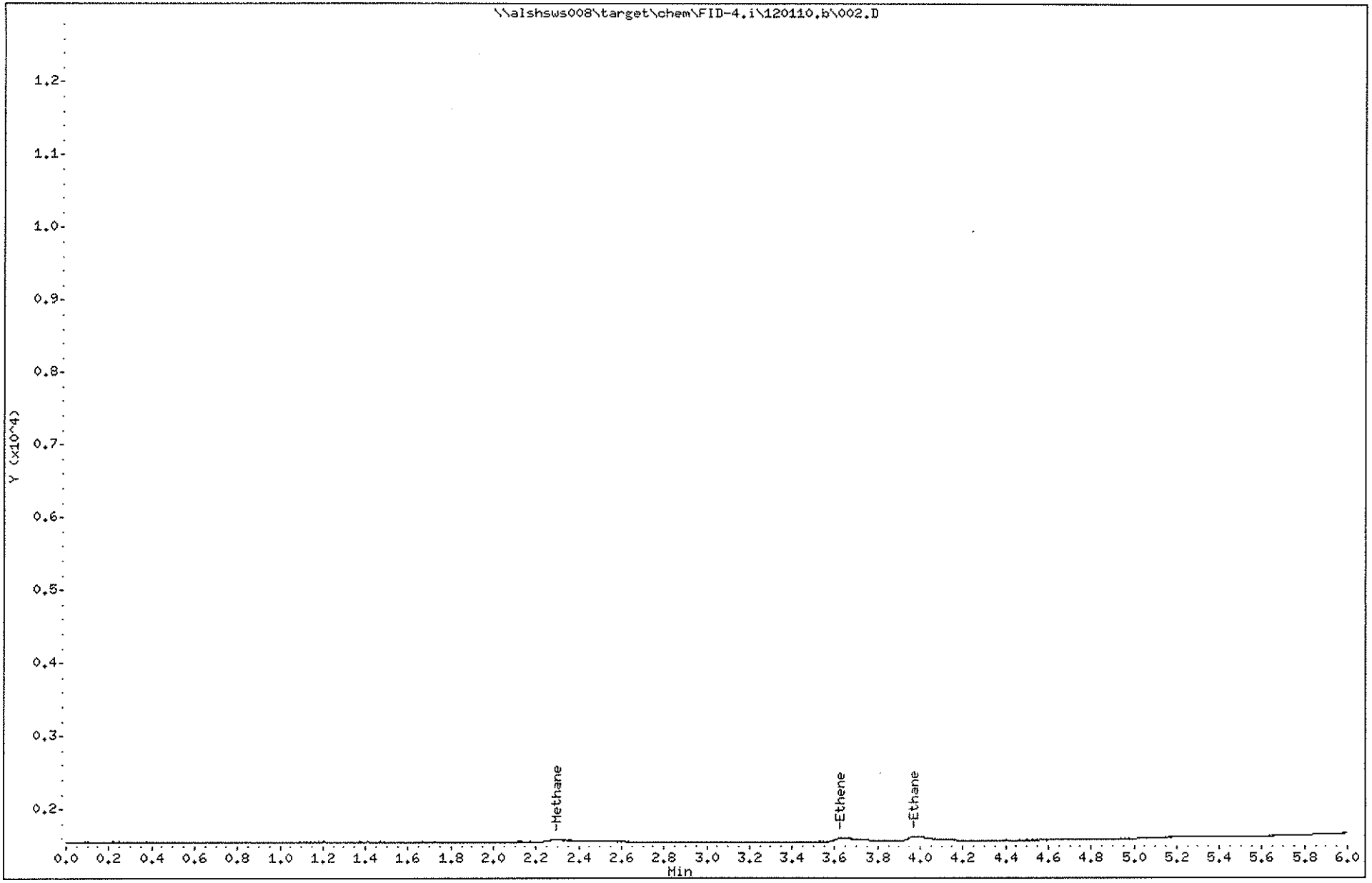
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\002.D
Date : 10-JAN-2012 11:27
Client ID: ICAL1
Sample Info: ICAL1;ICAL1

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 10-JAN-2012 11:44
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:44 Cal File: 003.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

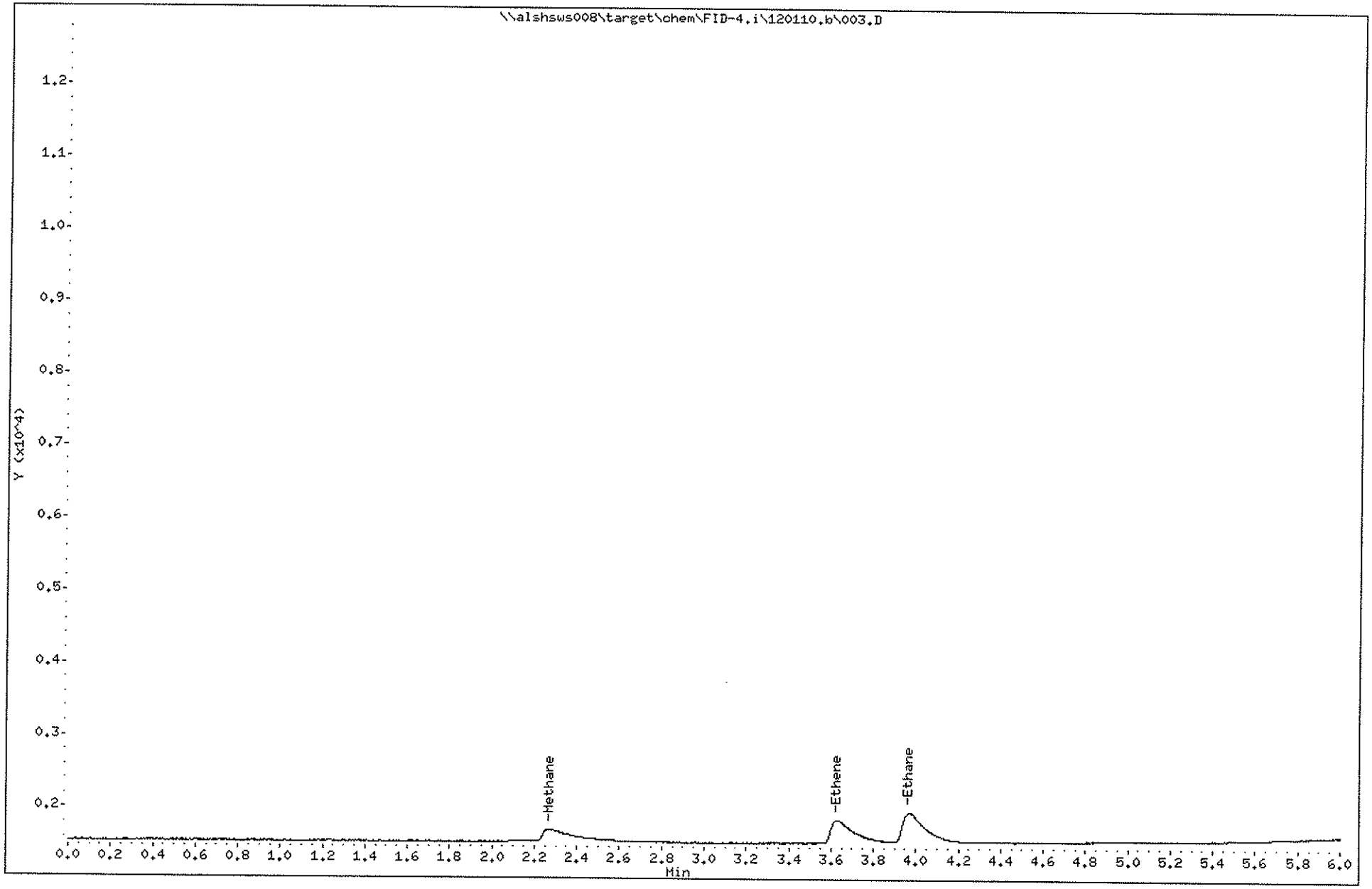
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.273	2.283	-0.010	1574	1.92000	1.883
2 Ethene	3.630	3.643	-0.013	2414	3.37000	3.661
3 Ethane	3.966	3.983	-0.017	3133	3.61000	3.787

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Date : 10-JAN-2012 11:44
Client ID: ICAL2
Sample Info: ICAL2;ICAL2

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\004.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 10-JAN-2012 11:56
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:56 Cal File: 004.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.283	2.283	0.000	3238	3.85000	3.865
2 Ethene	3.643	3.643	0.000	4955	6.74000	7.237(M)
3 Ethane	3.983	3.983	0.000	6626	7.22000	7.727(M)

QC Flag Legend

M - Compound response manually integrated.

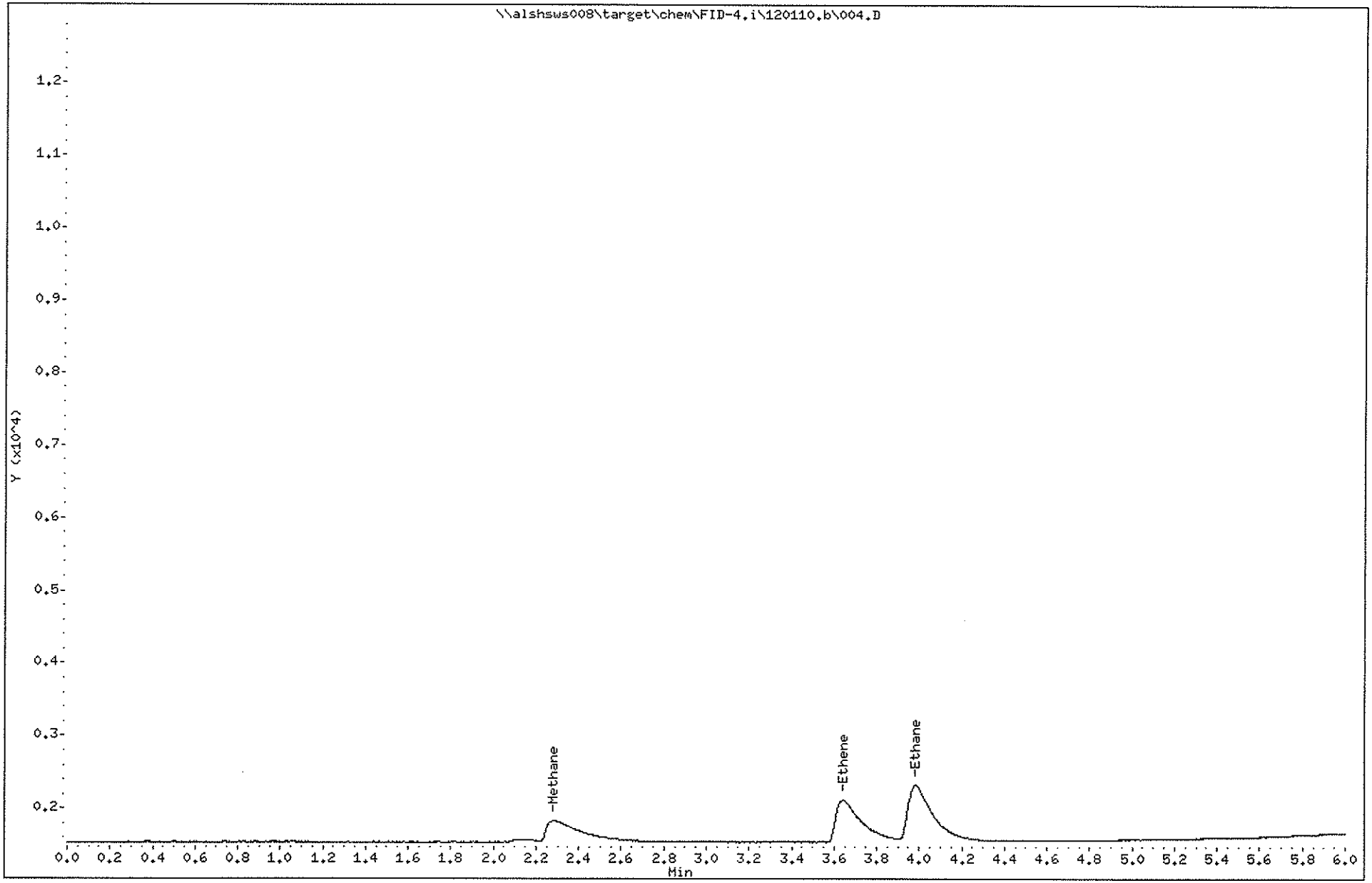
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\004.D
Date : 10-JAN-2012 11:56
Client ID: ICAL3
Sample Info: ICAL3;ICAL3

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\005.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 10-JAN-2012 12:09
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:09 Cal File: 005.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.286	2.283	0.003	6982	9.62000	8.623
2 Ethene	3.640	3.643	-0.003	10465	16.8000	15.638
3 Ethane	3.980	3.983	-0.003	13723	18.0000	16.460

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\005.D

Date : 10-JAN-2012 12:09

Client ID: ICAL4

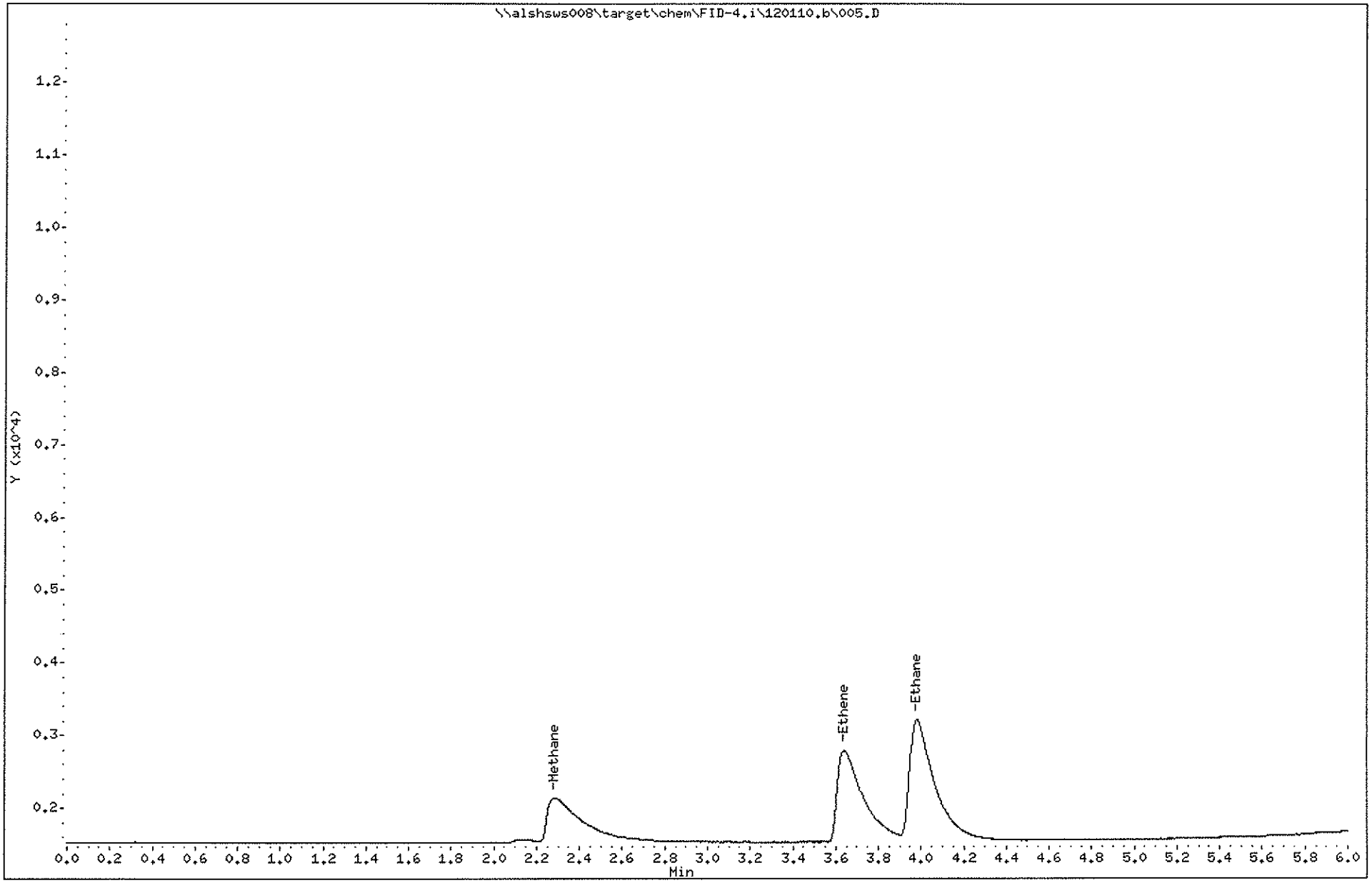
Instrument: FID-4.i

Sample Info: ICAL4;ICAL4

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 10-JAN-2012 12:26
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:26 Cal File: 006.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.293	2.283	0.010	13310	19.2000	16.926
2 Ethene	3.643	3.643	0.000	20695	33.7000	31.443
3 Ethane	3.983	3.983	0.000	27002	36.1000	33.069

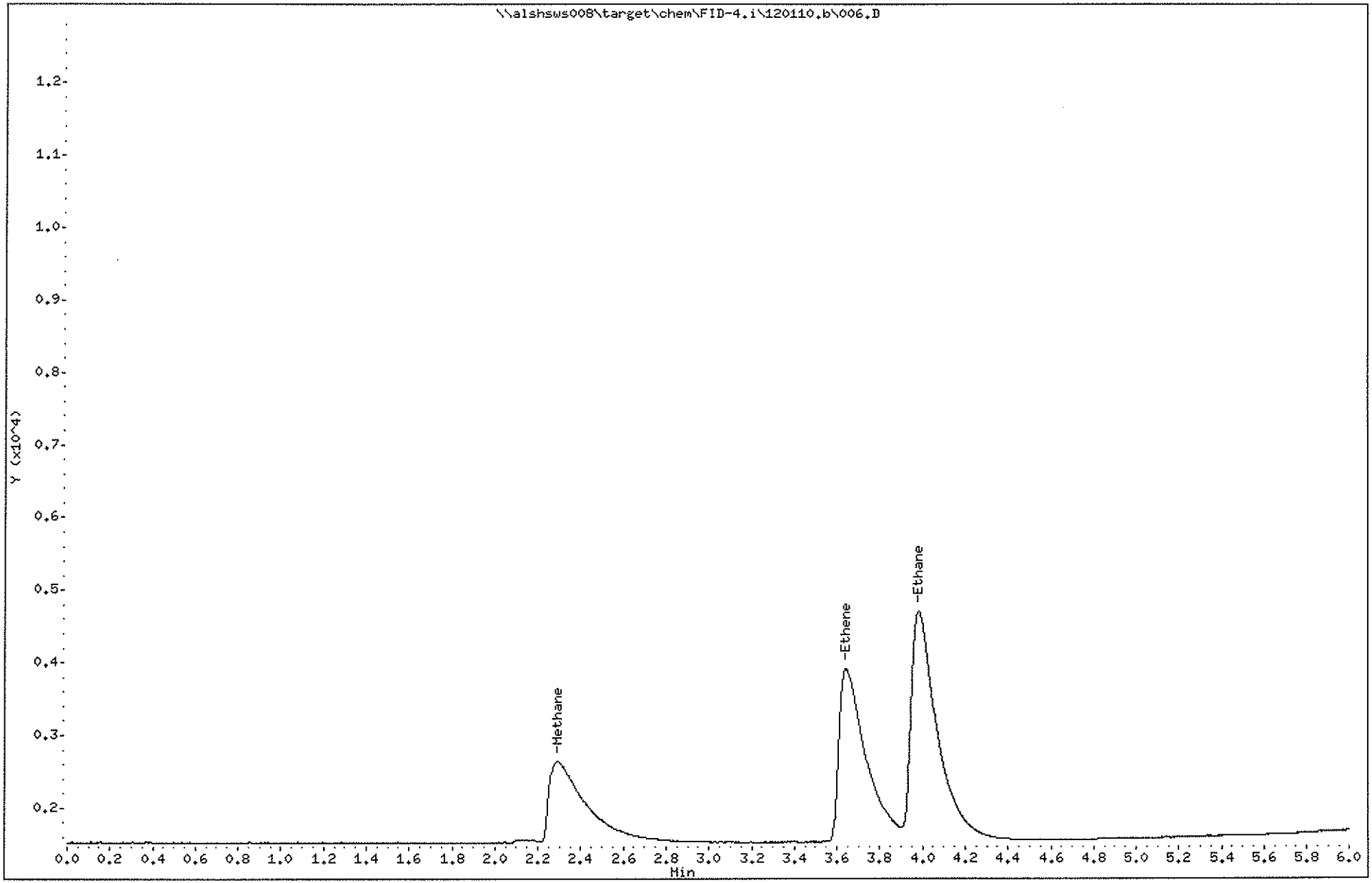
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Date : 10-JAN-2012 12:26
Client ID: ICAL5
Sample Info: ICAL5;ICAL5

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 10-JAN-2012 12:40
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

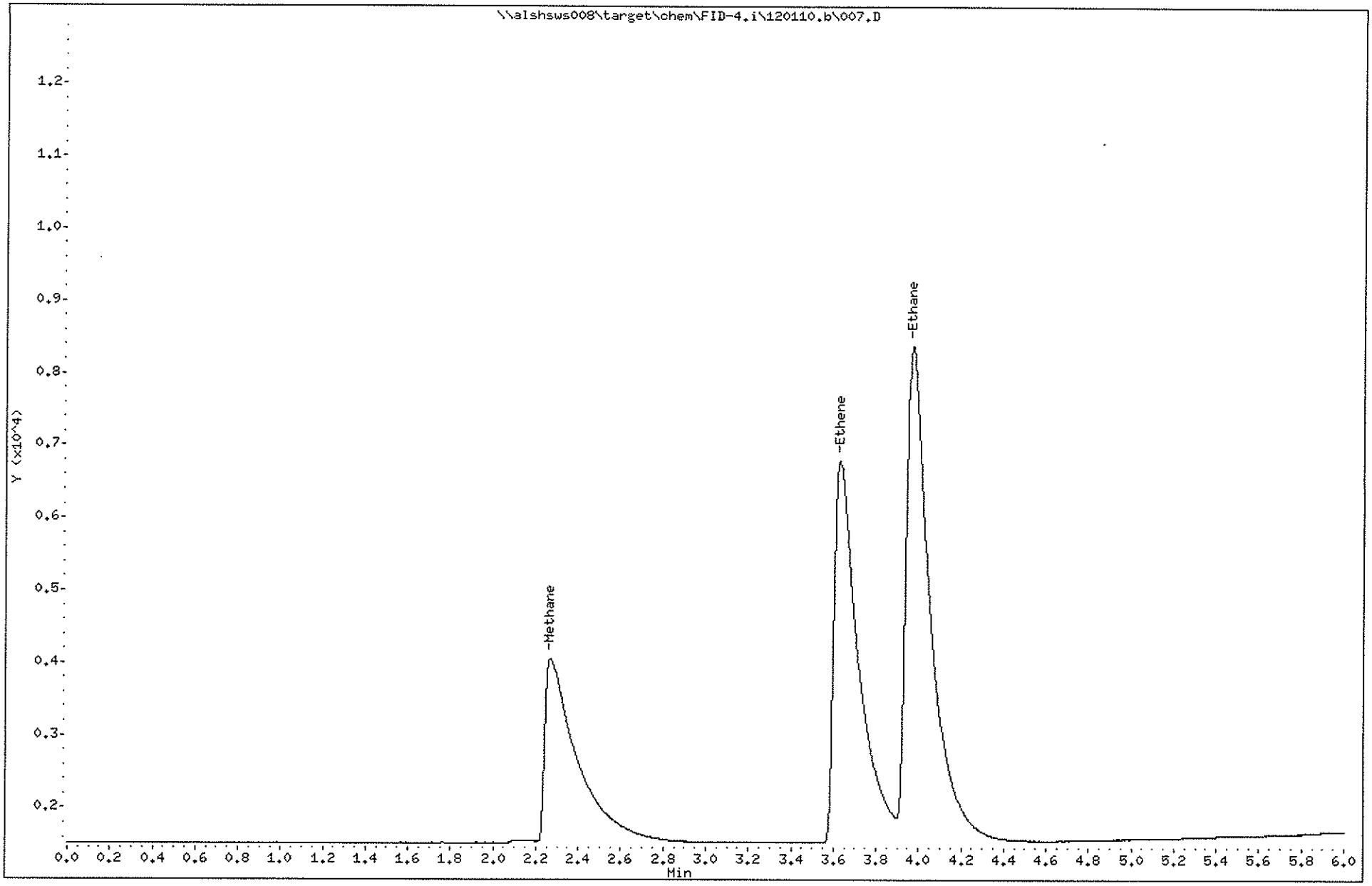
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.266	2.283	-0.017	27301	38.5000	35.296
2 Ethene	3.626	3.643	-0.017	42108	67.4000	64.523
3 Ethane	3.966	3.983	-0.017	54710	72.2000	67.816

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Date : 10-JAN-2012 12:40
Client ID: ICAL6
Sample Info: ICAL6;ICAL6

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 10-JAN-2012 12:56
Operator : NPI Inst ID: FID-4.i
Smp Info : ICV;ICV
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.283	2.283	0.000	7077	9.14951	9.149
2 Ethene	3.636	3.643	-0.007	10583	16.2166	16.216
3 Ethane	3.976	3.983	-0.007	13863	17.1840	17.184

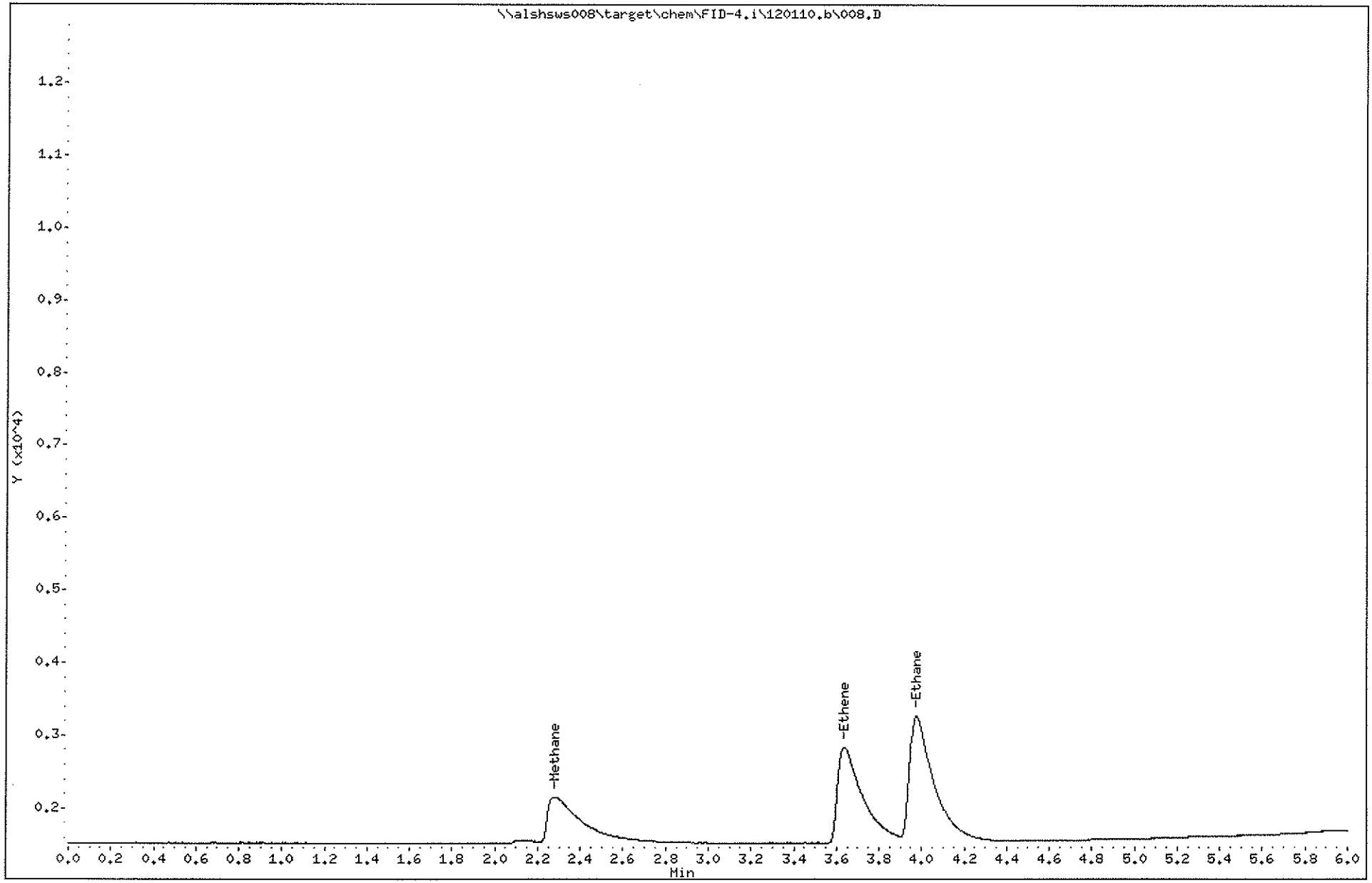
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Date : 10-JAN-2012 12:56
Client ID: ICV
Sample Info: ICV;ICV

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



FID04-Logbook

Batch: 4570
Date: 23-Jul-12
Method: RSK 175
Comments: Target Seq 120723

Analyst: Nosa Izekor
Reviewer:
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	07-23-2012 08:18	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	GLCSW1-120723	LCS	07-23-2012 08:31	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	GLCSDW1-120723	LCSD	07-23-2012 08:43	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	GBLKW1-120723	MBLK	07-23-2012 08:54	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	1207670-02B *pH 2*	SAMP	07-23-2012 09:06	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	1207670-03B *pH 2*	SAMP	07-23-2012 09:19	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	1207670-04B *pH 2*	SAMP	07-23-2012 09:30	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	1207670-05B *pH 2*	SAMP	07-23-2012 09:45	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	1207670-10B *pH 2*	SAMP	07-23-2012 09:57	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	1207804-01B *pH 2*	SAMP	07-23-2012 10:08	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	1207804-02B *pH 2*	SAMP	07-23-2012 10:18	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1207804-03B *pH 2*	SAMP	07-23-2012 10:30	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1207804-05B *pH 2*	SAMP	07-23-2012 10:41	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1207804-06B *pH 2*	SAMP	07-23-2012 10:52	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1207804-04B *pH 2*	SAMP	07-23-2012 11:35	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1207804-05B *pH 2*	SAMP	07-23-2012 11:51	20.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	1207804-06B *pH 2*	SAMP	07-23-2012 12:08	20.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	1207804-04B *pH 2*	SAMP	07-23-2012 12:19	2.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	1207804-01BDUP *pH 2*	SAMP	07-23-2012 12:40	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA
20	CCV	CCV	07-23-2012 12:52	1.00	0.00 mL	0.00 mL	020.D	Liquid	☒	NA

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FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1207804

Instrument ID: FID-4 Calibration Date: 07/23/12 Time: 0818

Lab File ID: 001 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	650.416	0.01	15.9	25.0
Ethane	806.737	640.556	0.01	20.6	25.0
Ethene	652.603	519.583	0.01	20.4	25.0

FORM VII GASES

FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1207804

Instrument ID: FID-4 Calibration Date: 07/23/12 Time: 1252

Lab File ID: 020 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	650.416	0.01	15.9	25.0
Ethane	806.737	640.556	0.01	20.6	25.0
Ethene	652.603	519.583	0.01	20.4	25.0

FORM VII GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\001.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 23-JUL-2012 08:18
Operator : JA Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120723.b\rsk175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP158

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.213	2.206	0.007	7301	9.62000	9.439
2 Ethene	3.526	3.540	-0.014	9563	16.8000	14.653
3 Ethane	3.860	3.876	-0.016	12914	18.0000	16.007

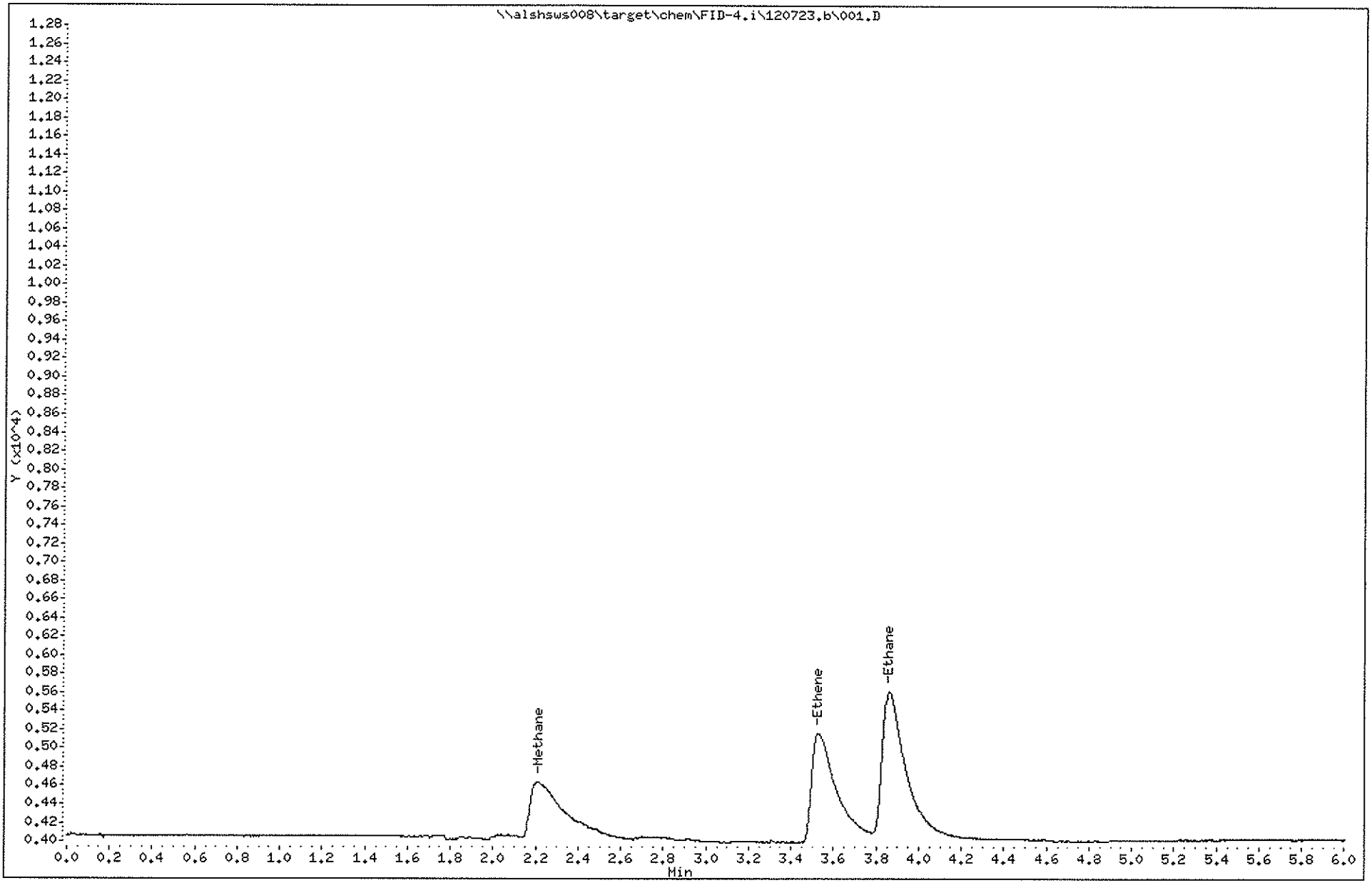
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\001.D
Date : 23-JUL-2012 08:18
Client ID: CCV
Sample Info: CCV;CCV;2;4

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

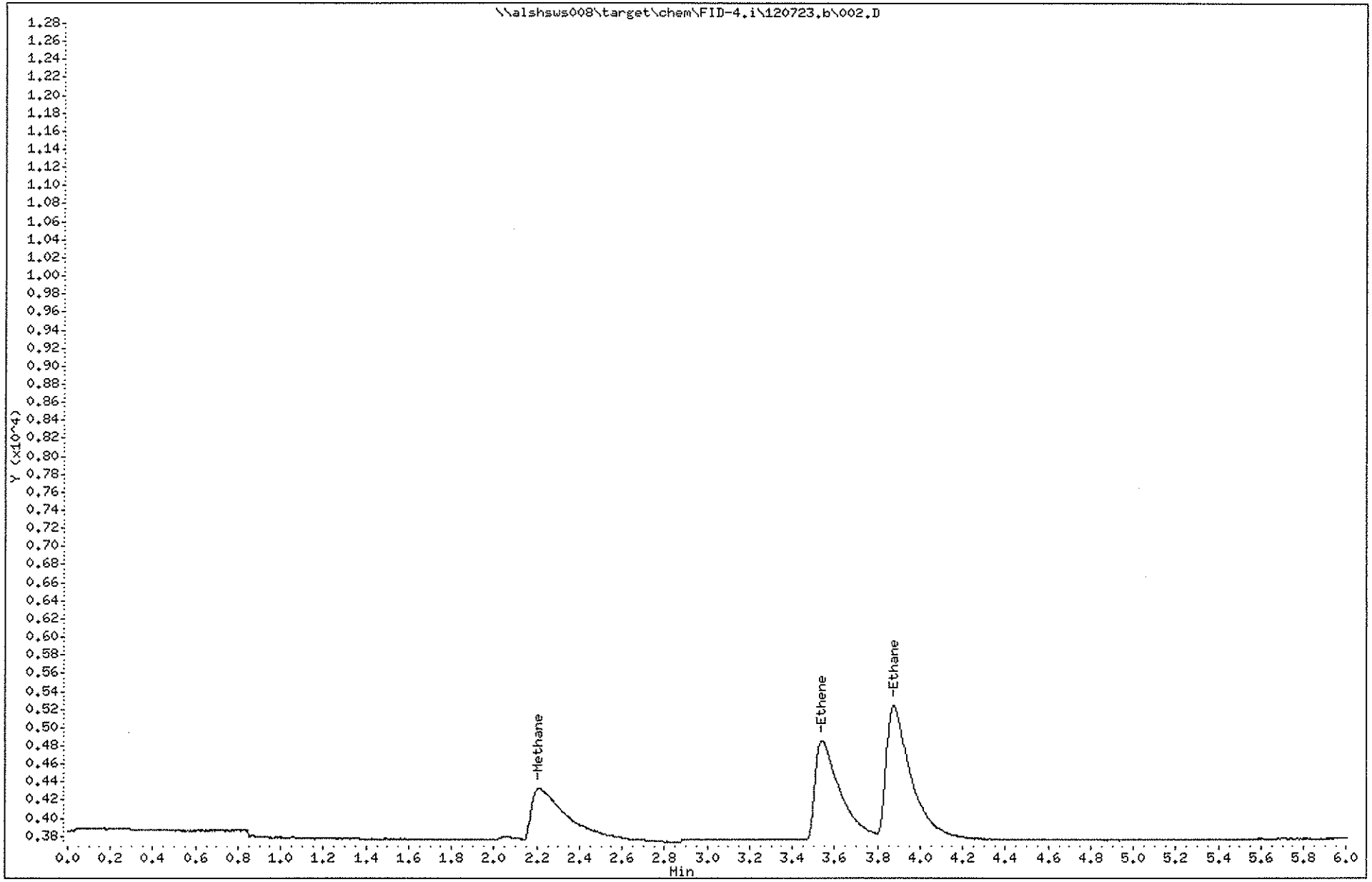
Data file : \\alshsws008\target\chem\FID-4.i\120723.b\002.D
Lab Smp Id: GLCSW1-120723 Client Smp ID: GLCSW1-120723
Inj Date : 23-JUL-2012 08:31
Operator : JA Inst ID: FID-4.i
Smp Info : GLCSW1-120723;GLCSW1-120723;3;;LCS
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120723.b\rsk175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP158

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.210	2.206	0.004	6473	8.36863	8.368
2 Ethene	3.536	3.540	-0.004	8970	13.7450	13.744
3 Ethane	3.876	3.876	0.000	12074	14.9665	14.966

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\002.D
Date : 23-JUL-2012 08:31
Client ID: GLCSW1-120723
Sample Info: GLCSW1-120723;GLCSW1-120723;3;;LCS

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\003.D
Lab Smp Id: GLCSDW1-120723 Client Smp ID: GLCSDW1-120723
Inj Date : 23-JUL-2012 08:43
Operator : JA Inst ID: FID-4.i
Smp Info : GLCSDW1-120723;GLCSDW1-120723;3;;LCSD
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120723.b\rsk175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP158

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.213	2.206	0.007	6675	8.62978	8.629
2 Ethene	3.540	3.540	0.000	8802	13.4875	13.487
3 Ethane	3.873	3.876	-0.003	11819	14.6504	14.650

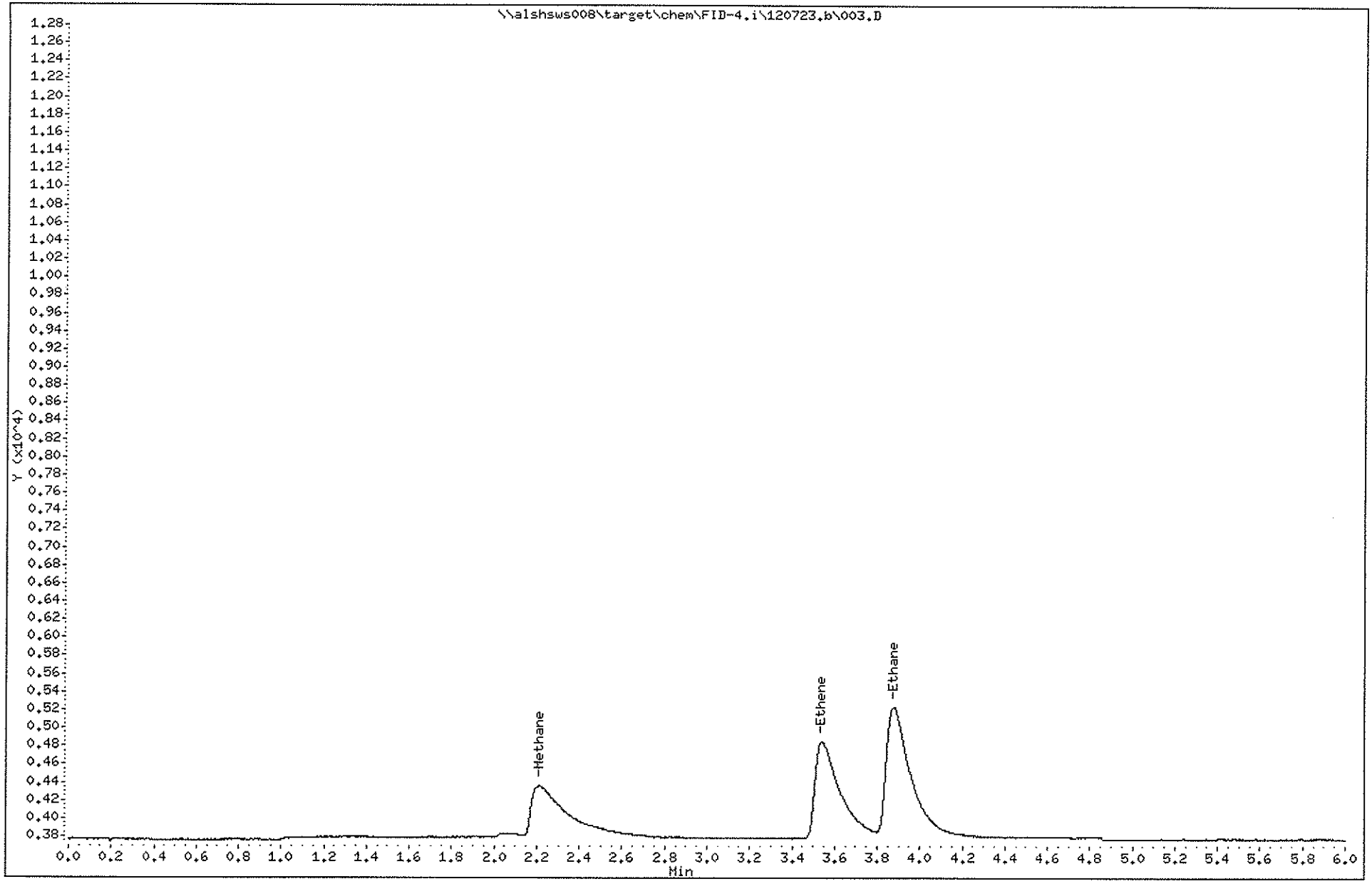
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\003.D
Date : 23-JUL-2012 08:43
Client ID: GLCSDW1-120723
Sample Info: GLCSDW1-120723;GLCSDW1-120723;3;;LCSD

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

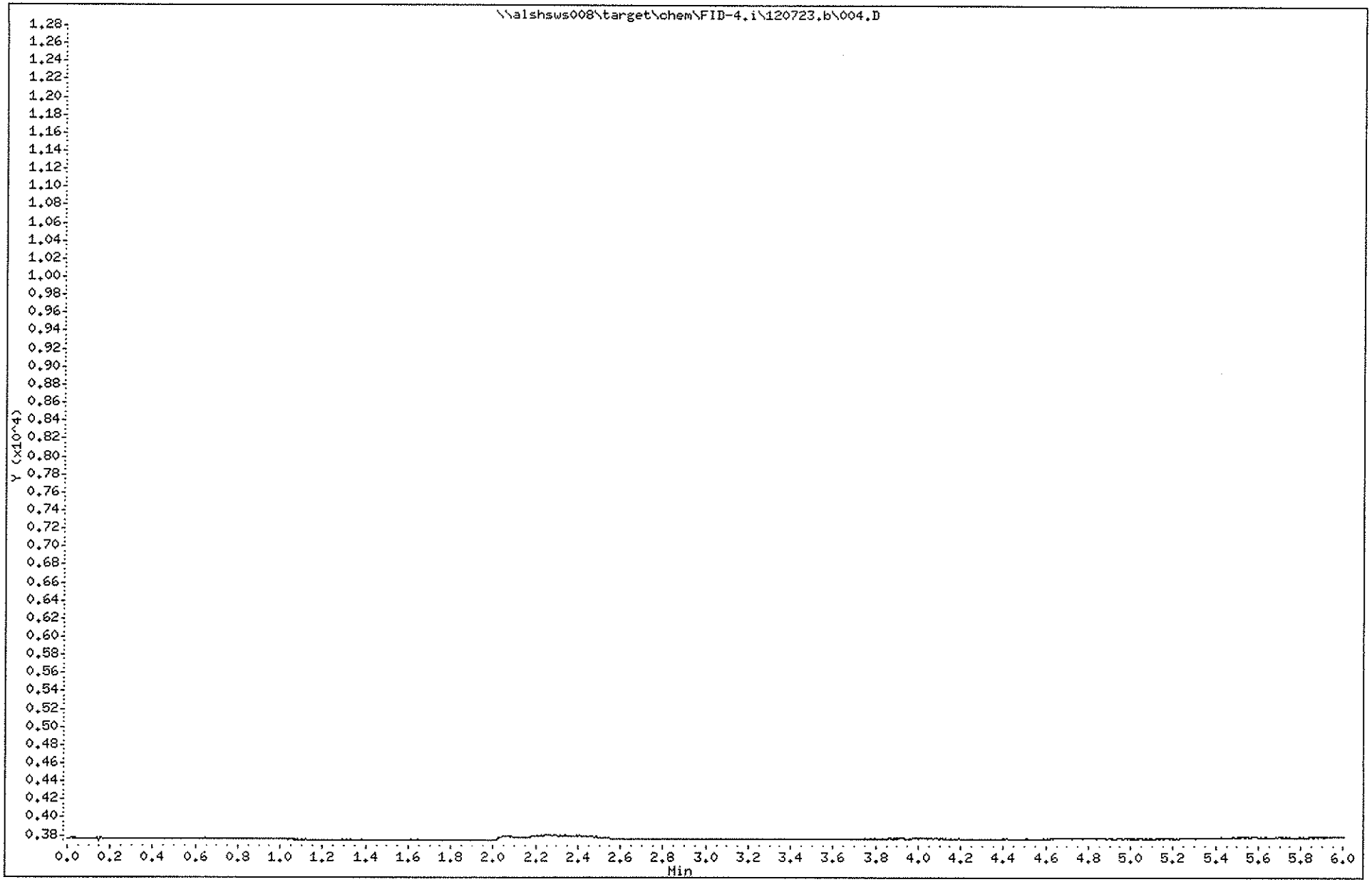
Data file : \\alshsws008\target\chem\FID-4.i\120723.b\004.D
Lab Smp Id: GBLKW1-120723 Client Smp ID: GBLKW1-120723
Inj Date : 23-JUL-2012 08:54
Operator : JA Inst ID: FID-4.i
Smp Info : GBLKW1-120723;GBLKW1-120723;3;;BLANK
Misc Info : 1206076;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120723.b\rsk175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP158

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\004.D
Date : 23-JUL-2012 08:54
Client ID: GBLKW1-120723
Sample Info: GBLKW1-120723;GBLKW1-120723;3;;BLANK

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\010.D
Lab Smp Id: 1207804-01B Client Smp ID: 1207804-01B
Inj Date : 23-JUL-2012 10:08
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-01B;1207804-01B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.216	2.206	0.010	1438	1.85912	1.859(M)

QC Flag Legend

M - Compound response manually integrated.

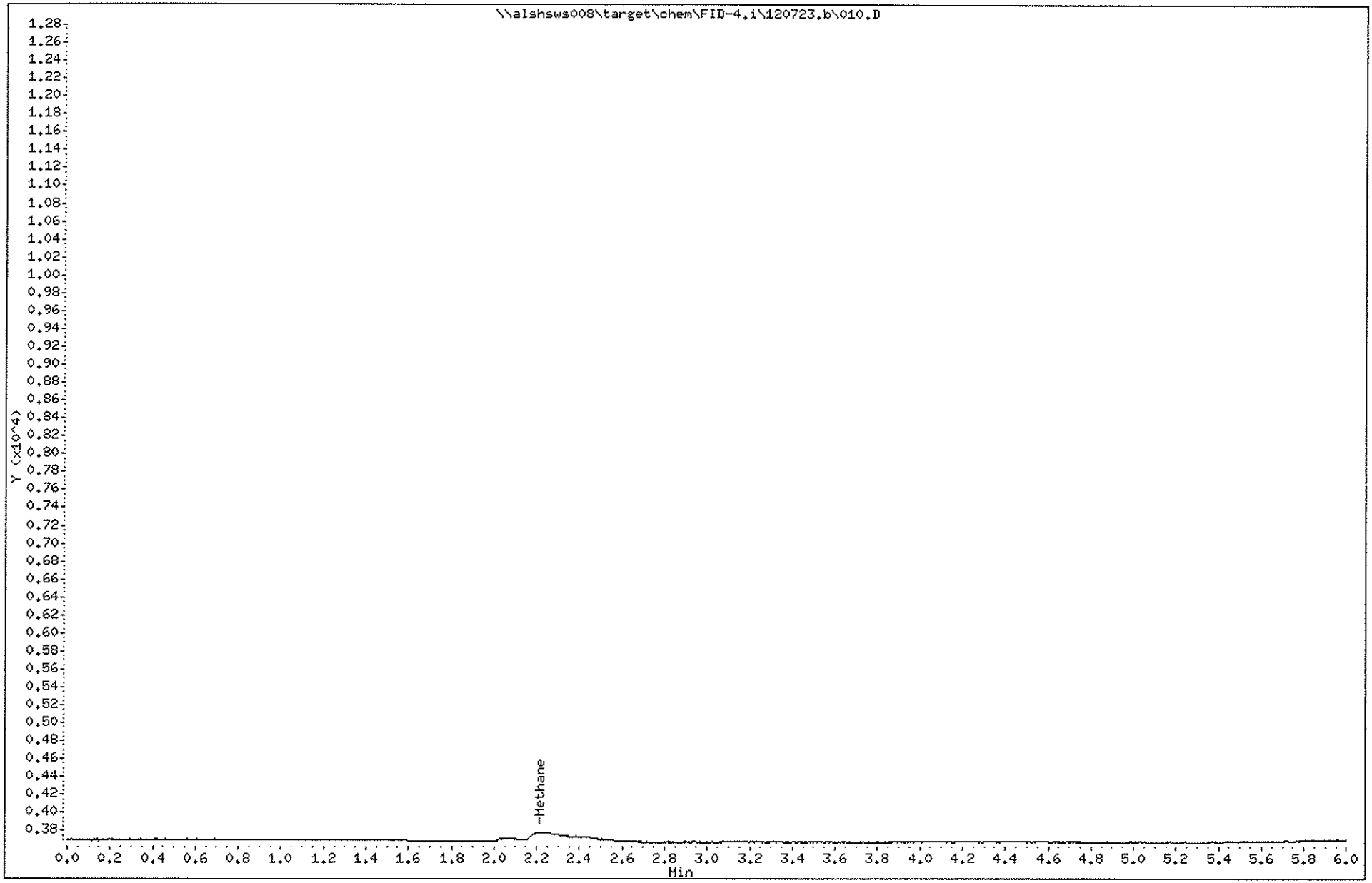
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\010.D
Date : 23-JUL-2012 10:08
Client ID: 1207804-01B
Sample Info: 1207804-01B;1207804-01B;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\011.D
Lab Smp Id: 1207804-02B Client Smp ID: 1207804-02B
Inj Date : 23-JUL-2012 10:18
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-02B;1207804-02B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.253	2.206	0.047	377	0.48741	0.487(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

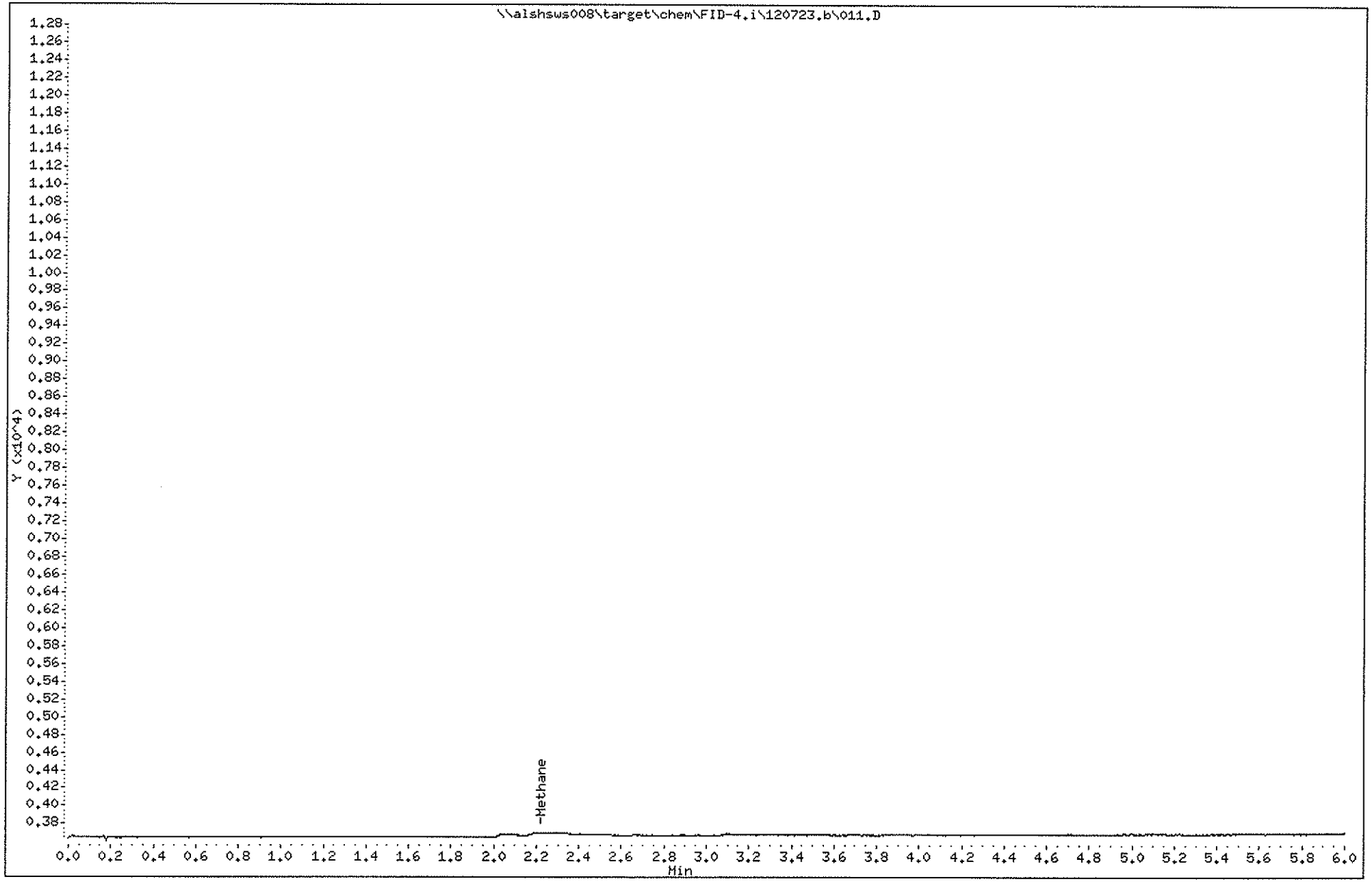
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\011.D
Date : 23-JUL-2012 10:18
Client ID: 1207804-02B
Sample Info: 1207804-02B;1207804-02B;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\012.D
Lab Smp Id: 1207804-03B Client Smp ID: 1207804-03B
Inj Date : 23-JUL-2012 10:30
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-03B;1207804-03B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

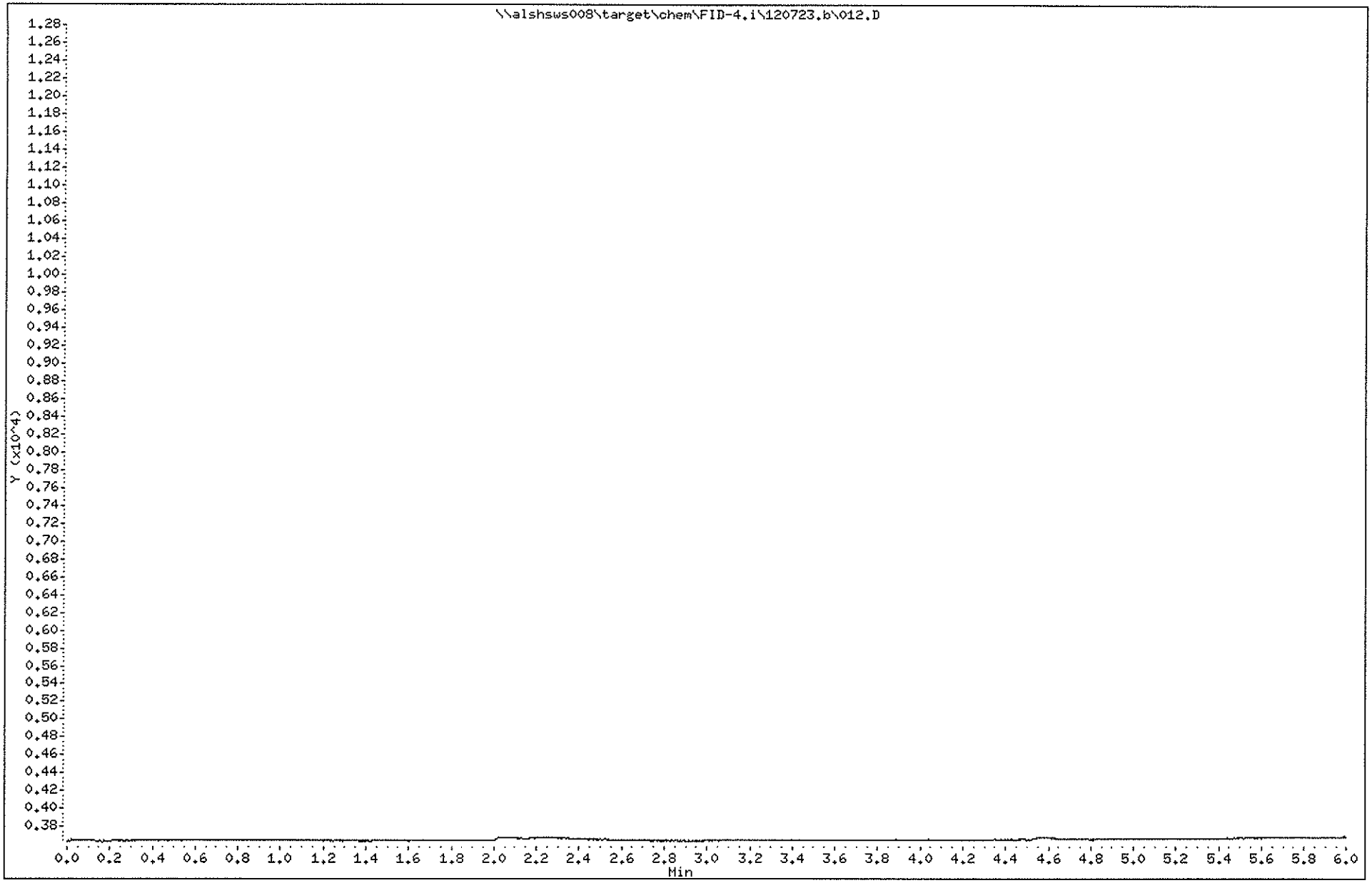
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\012.D
Date : 23-JUL-2012 10:30
Client ID: 1207804-03B
Sample Info: 1207804-03B;1207804-03B;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\013.D
Lab Smp Id: 1207804-05B Client Smp ID: 1207804-05B
Inj Date : 23-JUL-2012 10:41
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-05B;1207804-05B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.200	2.206	-0.006	427243	552.362	552.361(A)
2 Ethene	3.513	3.540	-0.027	207	0.31719	0.317(a)
3 Ethane	3.863	3.876	-0.013	468	0.58011	0.580(a)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\013.D

Date : 23-JUL-2012 10:41

Client ID: 1207804-05B

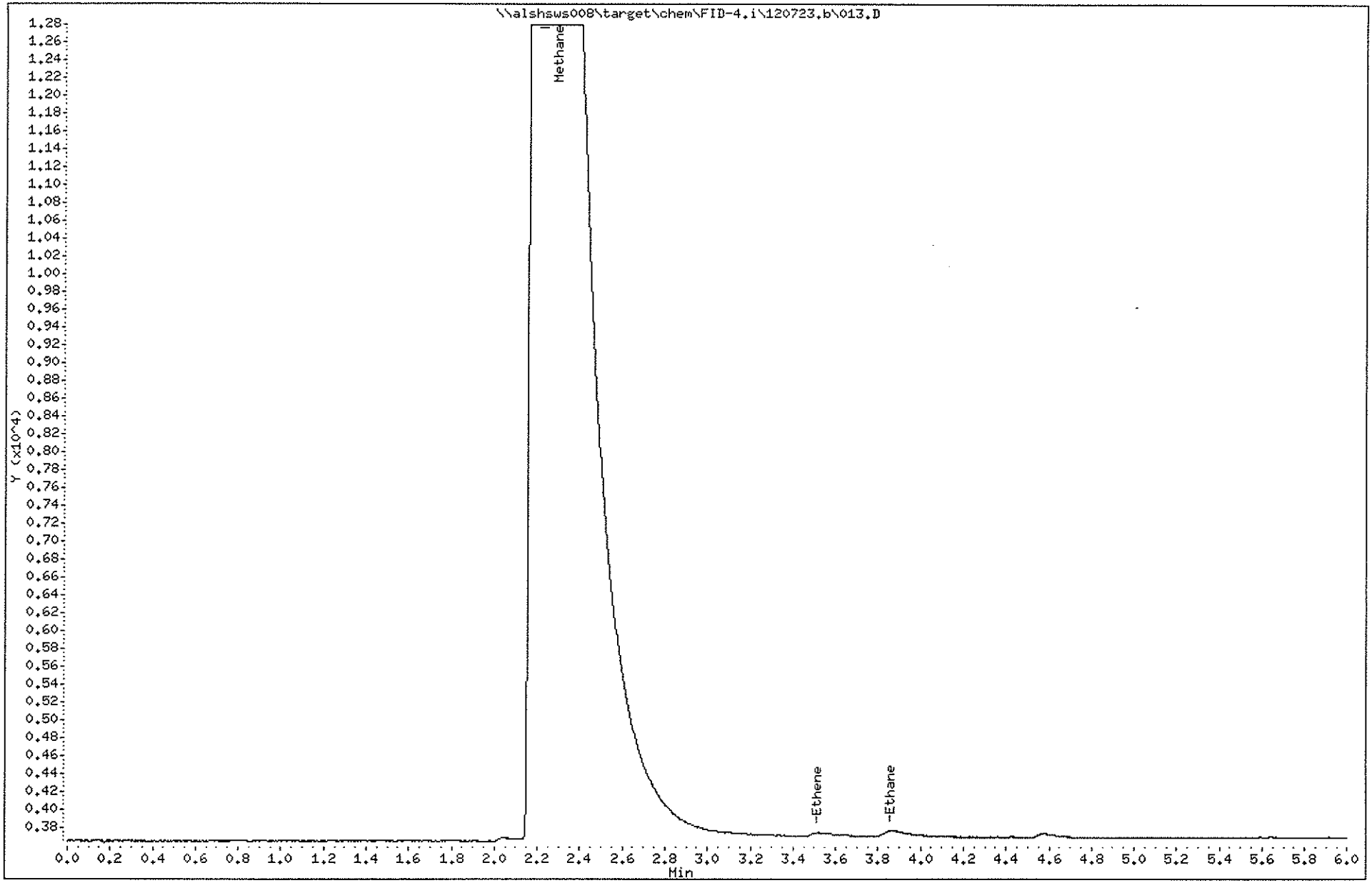
Sample Info: 1207804-05B;1207804-05B;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\014.D
Lab Smp Id: 1207804-06B Client Smp ID: 1207804-06B
Inj Date : 23-JUL-2012 10:52
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-06B;1207804-06B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.206	2.206	0.000	307065	396.989	396.989(A)
2 Ethene	3.523	3.540	-0.017	1543	2.36438	2.364(M)
3 Ethane	3.860	3.876	-0.016	1464	1.81472	1.814(M)

QC Flag Legend

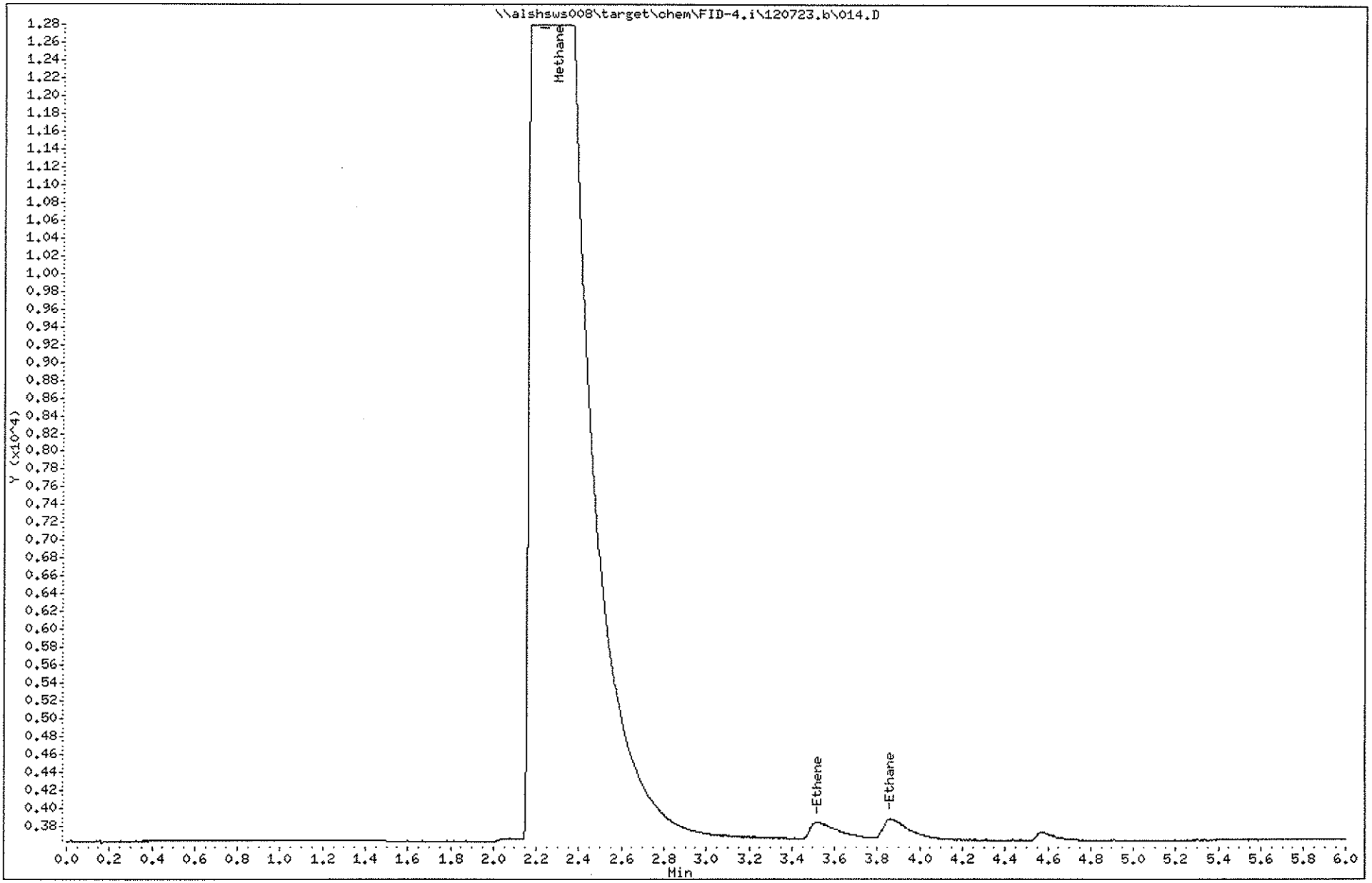
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\014.D
Date : 23-JUL-2012 10:52
Client ID: 1207804-06B
Sample Info: 1207804-06B;1207804-06B;;;

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\015.D
Lab Smp Id: 1207804-04B Client Smp ID: 1207804-04B
Inj Date : 23-JUL-2012 11:35
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-04B;1207804-04B;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.203	2.206	-0.003	34803	44.9951	44.995(A)
3 Ethane	3.836	3.876	-0.040	7146	8.85791	8.857(M)

QC Flag Legend

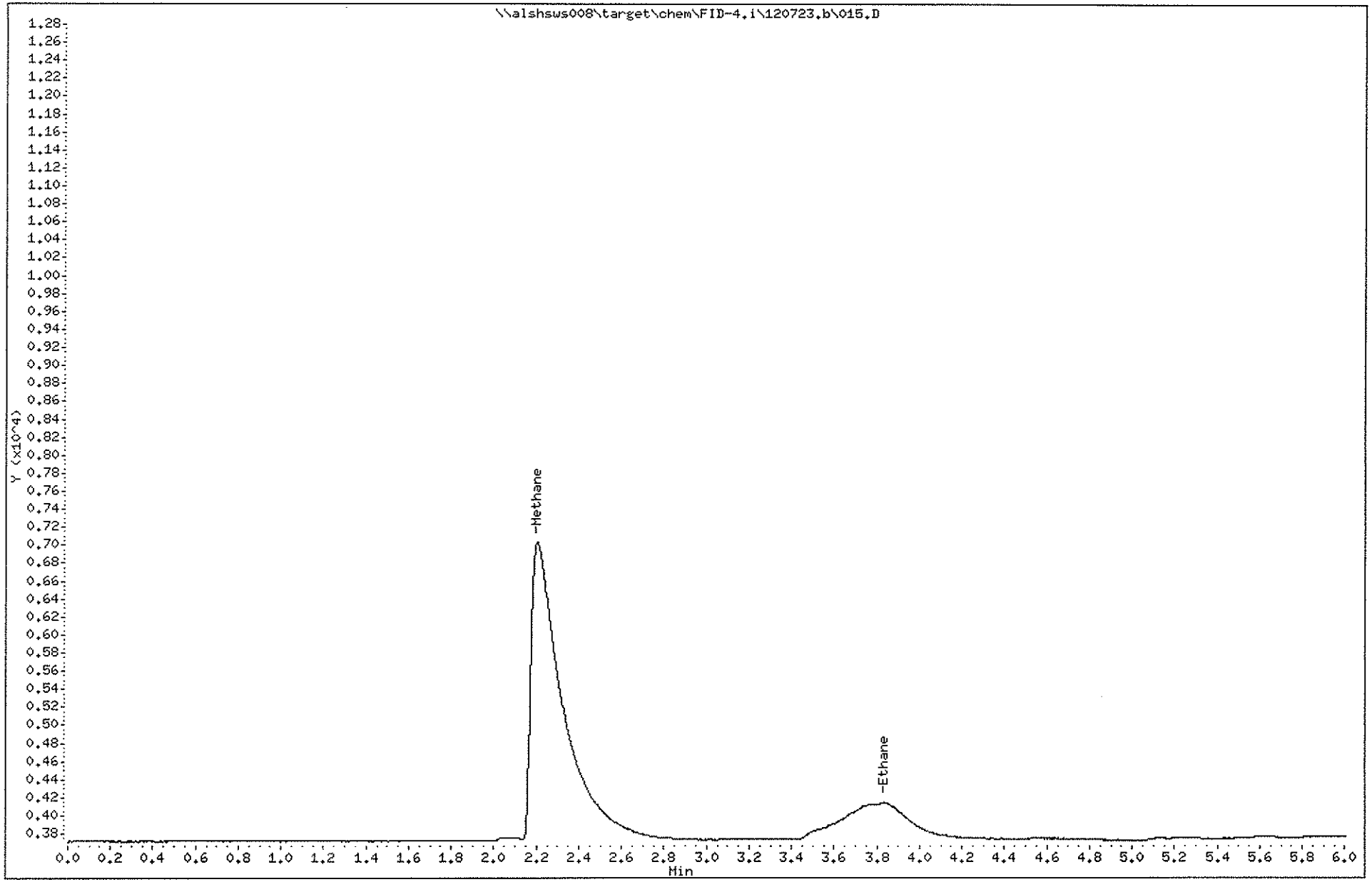
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\015.D
Date : 23-JUL-2012 11:35
Client ID: 1207804-04B
Sample Info: 1207804-04B;1207804-04B;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\016.D
Lab Smp Id: 1207804-05B Client Smp ID: 1207804-05B
Inj Date : 23-JUL-2012 11:51
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-05B;1207804-05B;;;
Misc Info : 1207670;1;0;20
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 16
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

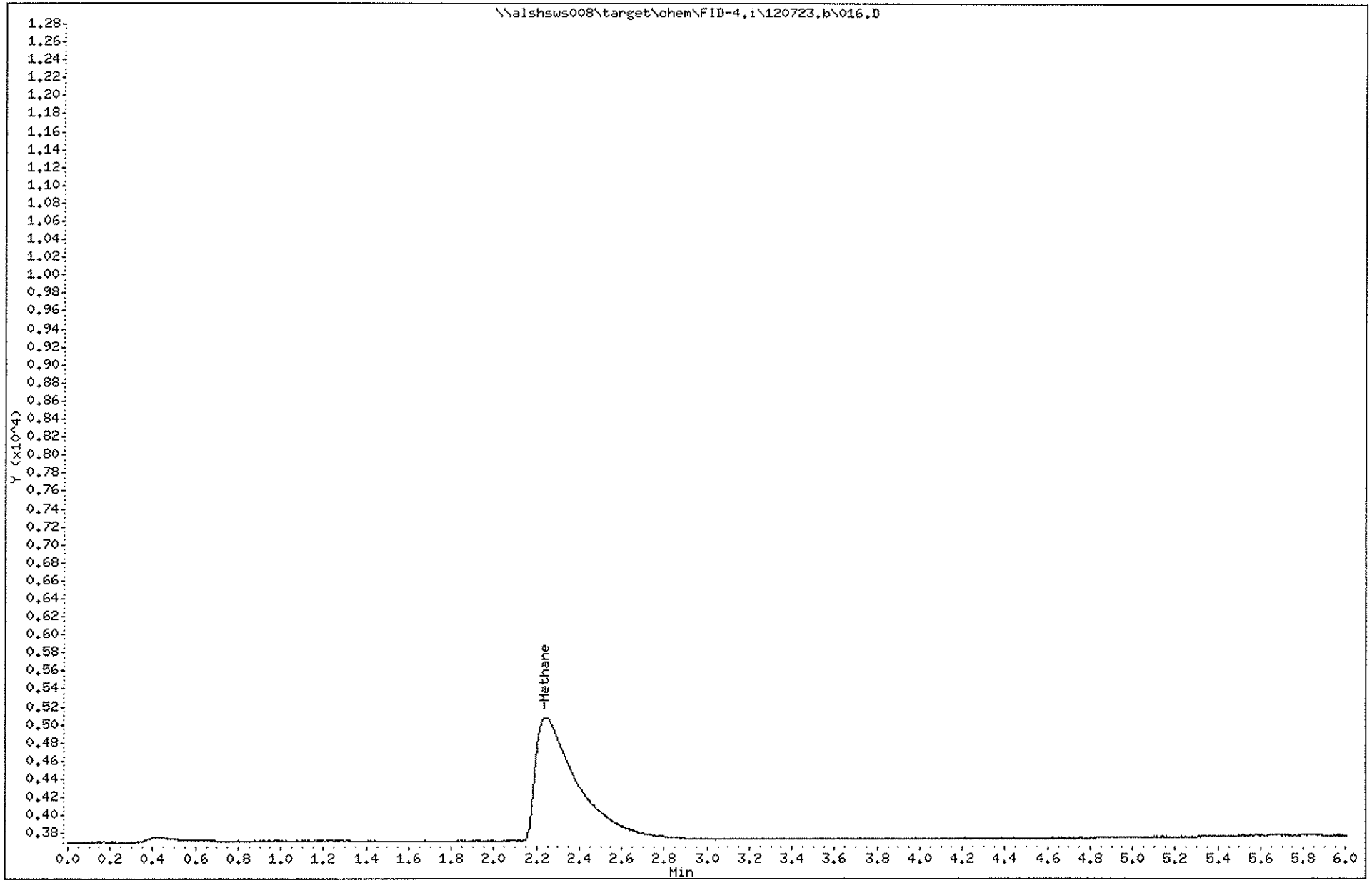
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.240	2.206	0.034	18756	24.2487	484.974

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\016.D
Date : 23-JUL-2012 11:51
Client ID: 1207804-05B
Sample Info: 1207804-05B;1207804-05B;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

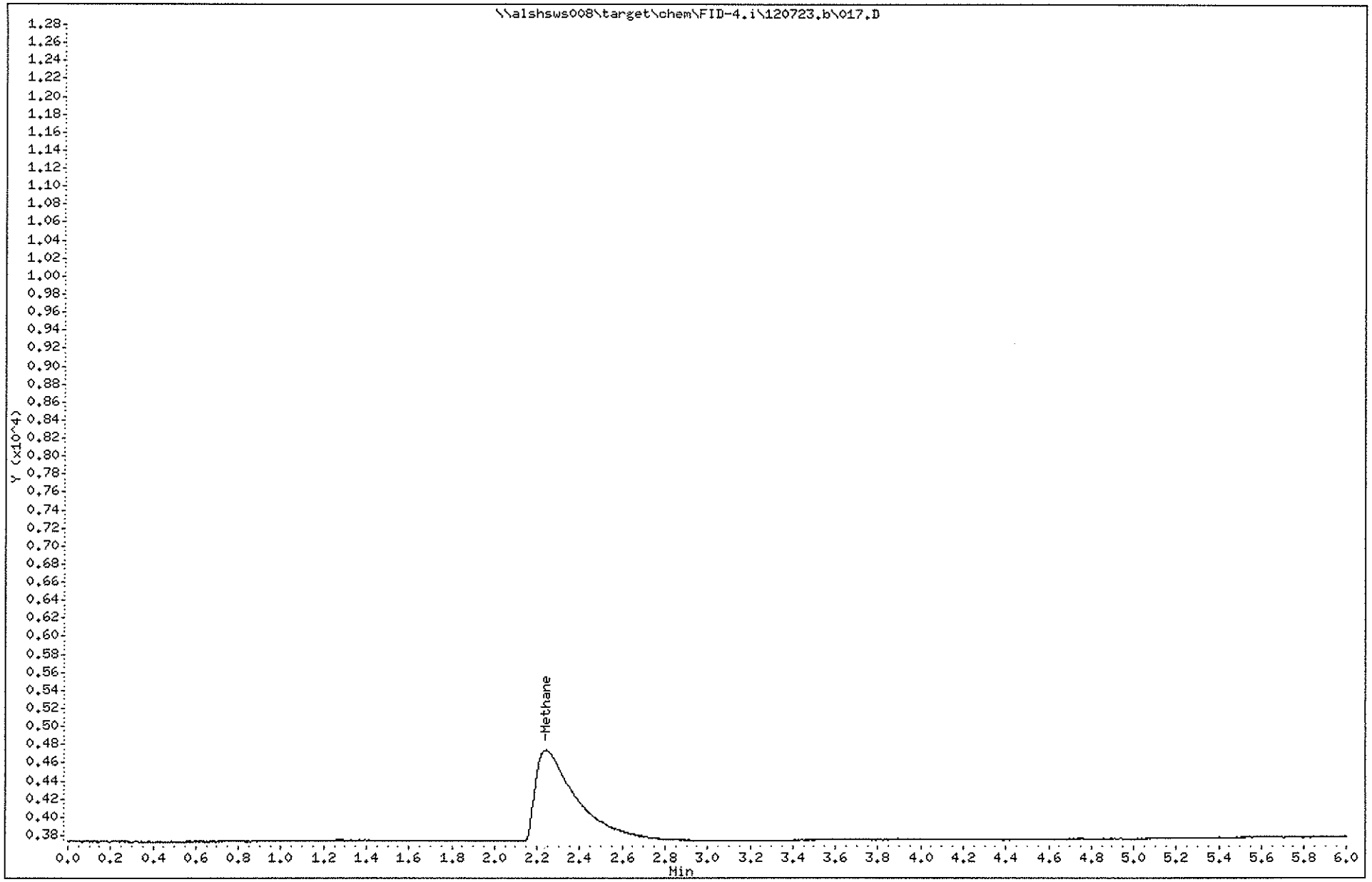
Data file : \\alshsws008\target\chem\FID-4.i\120723.b\017.D
Lab Smp Id: 1207804-06B Client Smp ID: 1207804-06B
Inj Date : 23-JUL-2012 12:08
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-06B;1207804-06B;;;
Misc Info : 1207670;1;0;20
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 17
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.243	2.206	0.037	13528	17.4897	349.793

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\017.D
Date : 23-JUL-2012 12:08
Client ID: 1207804-06B
Sample Info: 1207804-06B;1207804-06B;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\018.D
Lab Smp Id: 1207804-04B Client Smp ID: 1207804-04B
Inj Date : 23-JUL-2012 12:19
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-04B;1207804-04B;;;
Misc Info : 1207670;1;0;2
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 18
Dil Factor: 2.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.203	2.206	-0.003	17334	22.4103	44.820
2 Ethene	3.520	3.540	-0.020	152	0.23291	0.465(a)
3 Ethane	3.866	3.876	-0.010	221	0.27394	0.547(a)

QC Flag Legend

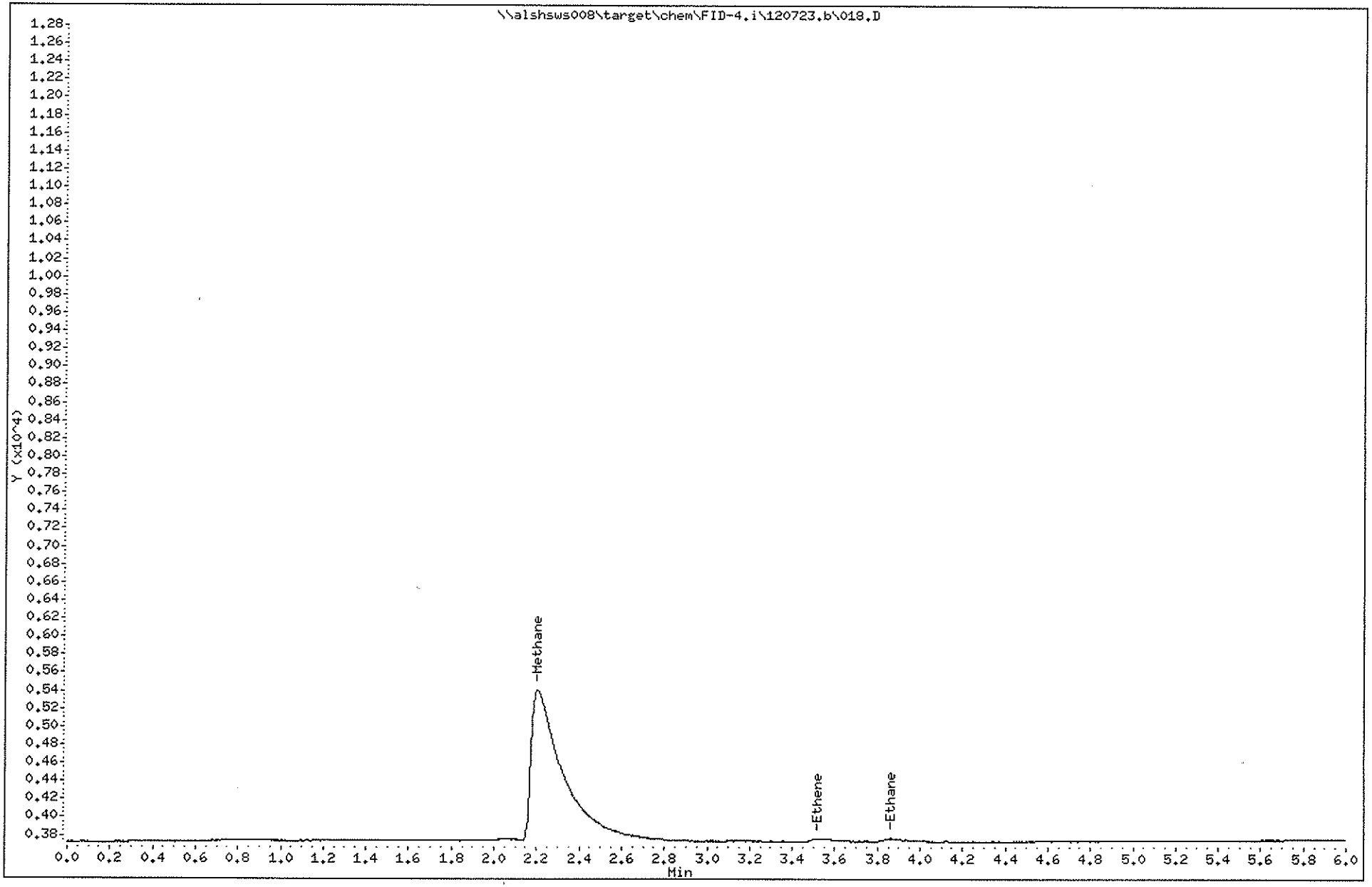
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\018.D
Date : 23-JUL-2012 12:19
Client ID: 1207804-04B
Sample Info: 1207804-04B;1207804-04B;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\019.D
Lab Smp Id: 1207804-01BDUP Client Smp ID: 1207804-01BDUP
Inj Date : 23-JUL-2012 12:40
Operator : JA Inst ID: FID-4.i
Smp Info : 1207804-01BDUP;1207804-01BDUP;;;
Misc Info : 1207670;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.193	2.206	-0.013	1057	1.36654	1.366

Data File: \\alshsws008\target\chem\FID-4.i\120723.b\019.D
Date : 23-JUL-2012 12:40
Client ID: 1207804-01BDUP
Sample Info: 1207804-01BDUP;1207804-01BDUP;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120723.b\020.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 23-JUL-2012 12:52
Operator : JA Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\120723.b\RSK175.m
Meth Date : 23-Jul-2012 12:59 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 20 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.206	2.206	0.000	6257	9.62000	8.089
2 Ethene	3.540	3.540	0.000	8729	16.8000	13.375
3 Ethane	3.876	3.876	0.000	11530	18.0000	14.292

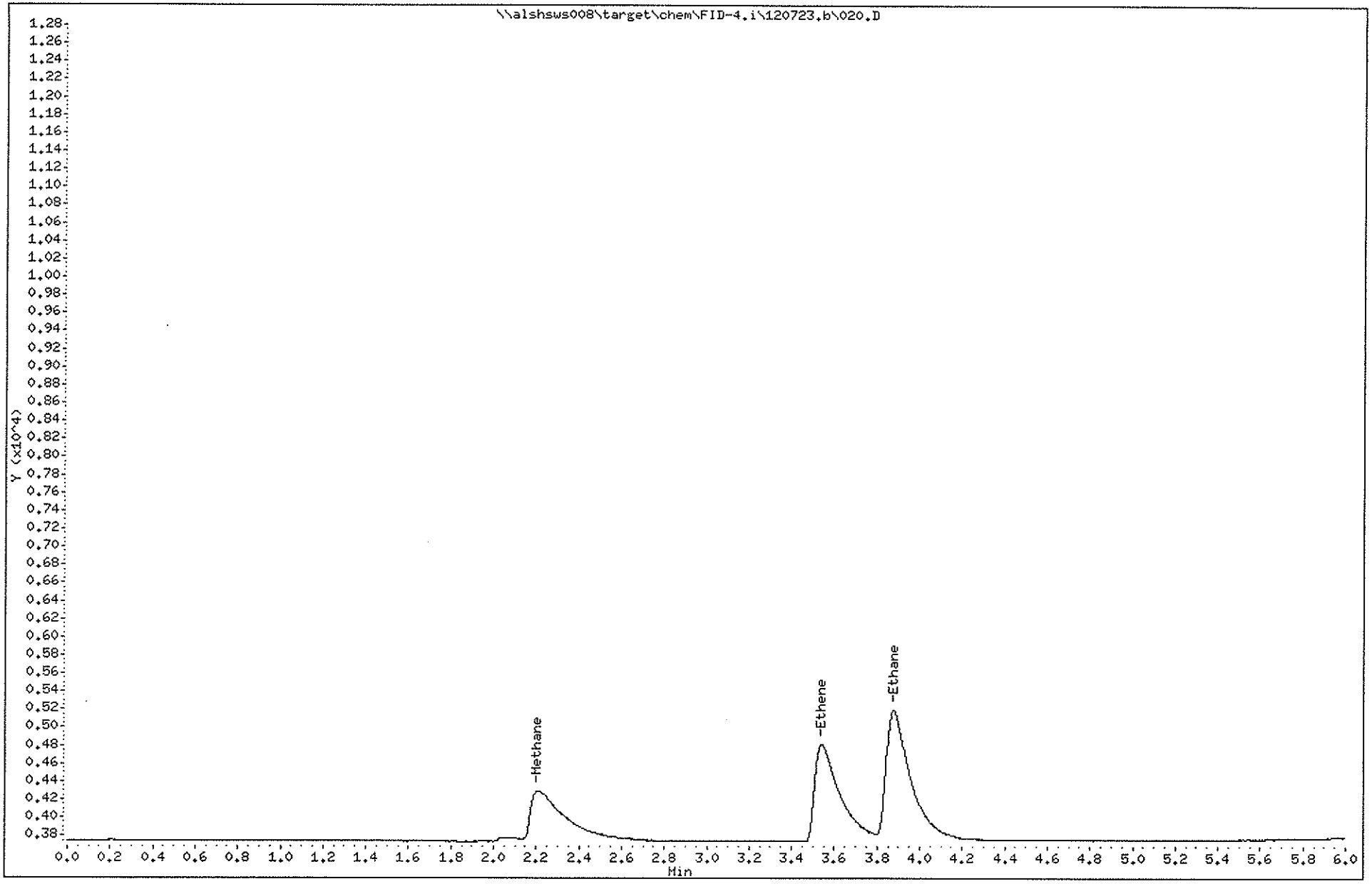
Data File: \\alshsws008\target\chem\FID-4.i\120723.b\020.D
Date : 23-JUL-2012 12:52
Client ID: CCV
Sample Info: CCV;CCV;2;4

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53

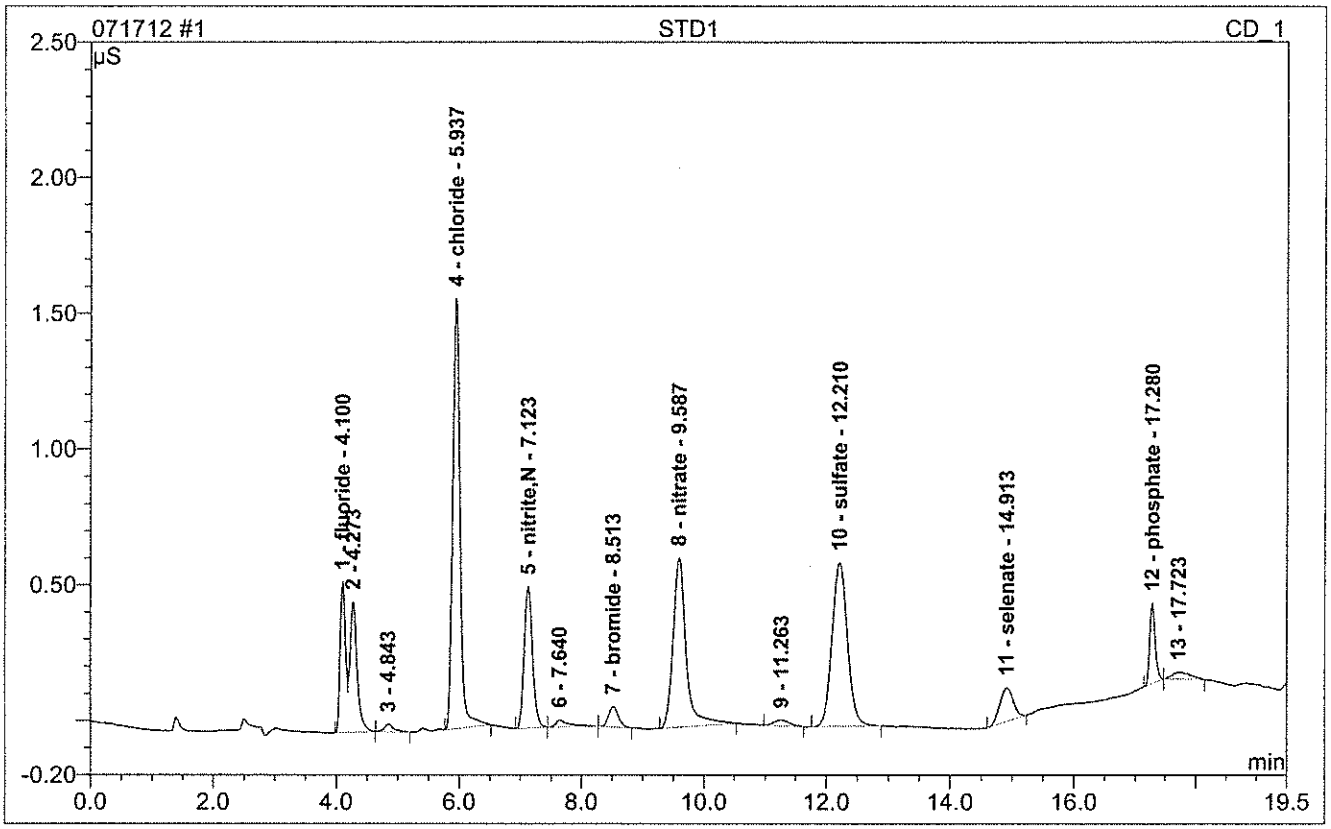


Wet Chemistry Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1207804

1 STD1

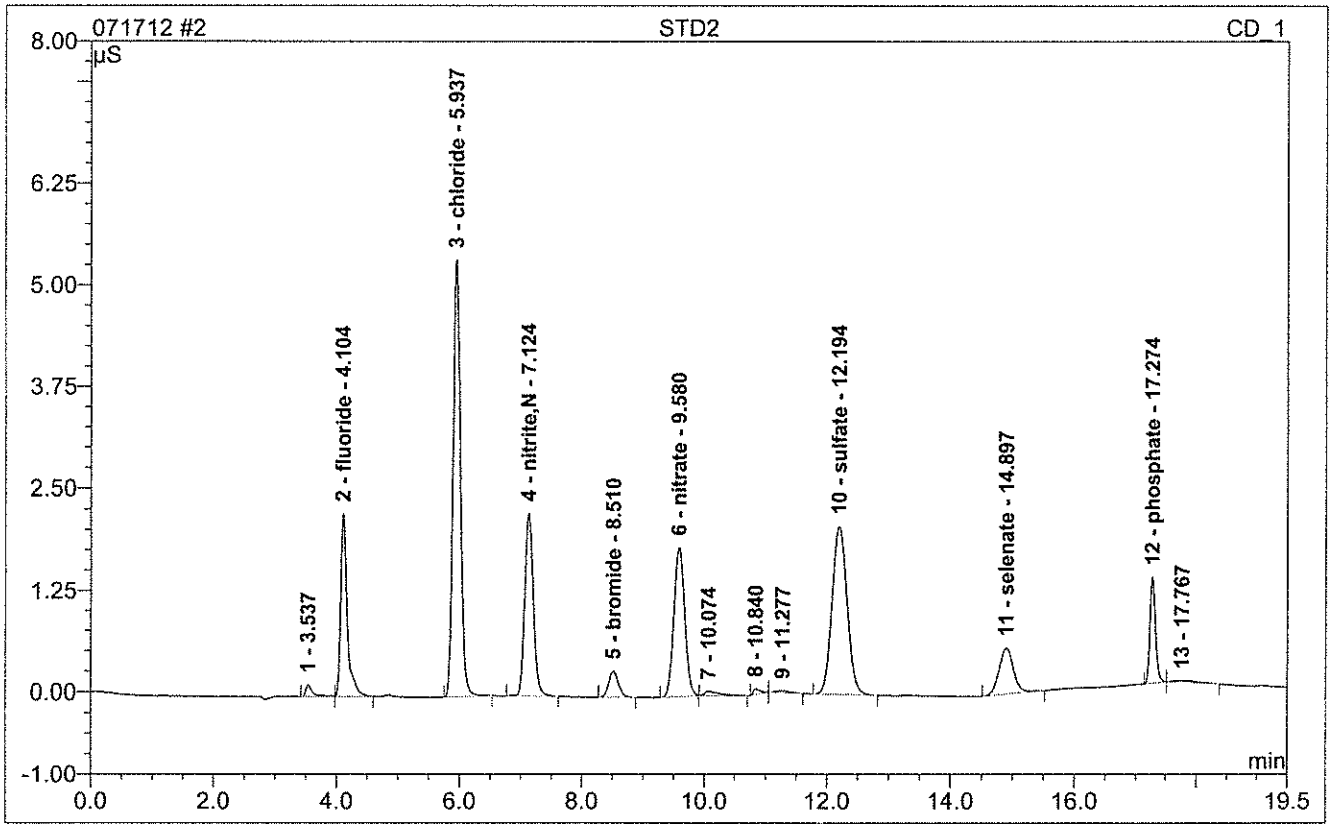
Sample Name:	**STD1**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 2:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.10	fluoride	0.557	0.057	6.65	0.094	1.
4	5.94	chloride	1.585	0.220	25.76	0.584	1.
5	7.12	nitrite,N	0.521	0.082	9.63	0.095	1.
7	8.51	bromide	0.076	0.014	1.64	0.089	1.
8	9.59	nitrate	0.622	0.154	17.99	0.169	1.
10	12.21	sulfate	0.603	0.174	20.33	0.580	1.
11	14.91	selenate	0.124	0.031	3.64	0.168	1.
12	17.28	phosphate	0.297	0.031	3.68	0.085	1.
Total:			4.384	0.764	89.31	1.864	

2 STD2

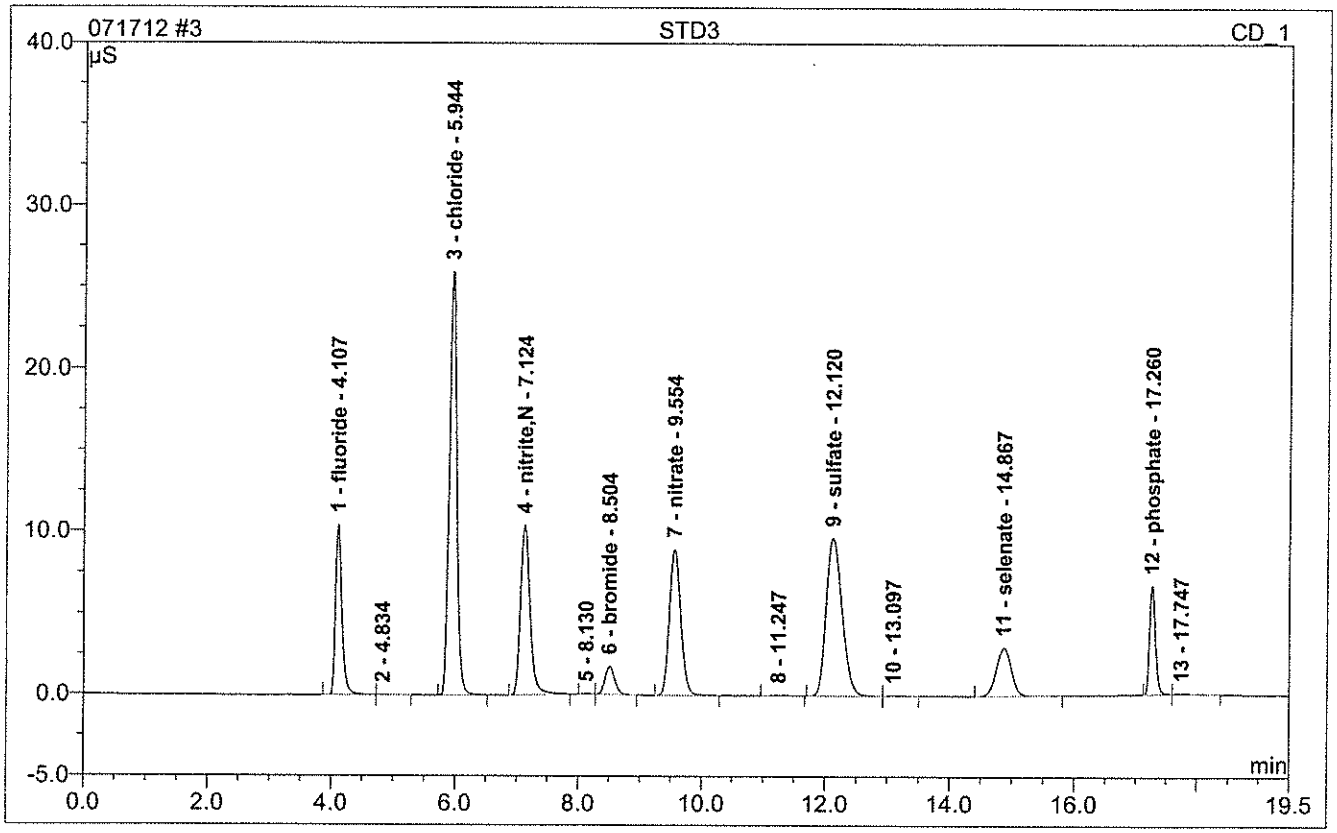
Sample Name:	**STD2**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 3:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
2	4.10	fluoride	2.243	0.275	9.96	0.458	1.
3	5.94	chloride	5.363	0.744	26.89	1.971	1.
4	7.12	nitrite,N	2.245	0.371	13.41	0.429	1.
5	8.51	bromide	0.315	0.058	2.10	0.368	1.
6	9.58	nitrate	1.831	0.380	13.73	0.398	1.
10	12.19	sulfate	2.065	0.588	21.27	1.963	1.
11	14.90	selenate	0.567	0.152	5.51	0.442	1.
12	17.27	phosphate	1.308	0.139	5.04	0.379	1.
Total:			15.938	2.708	97.91	6.407	

3 STD3

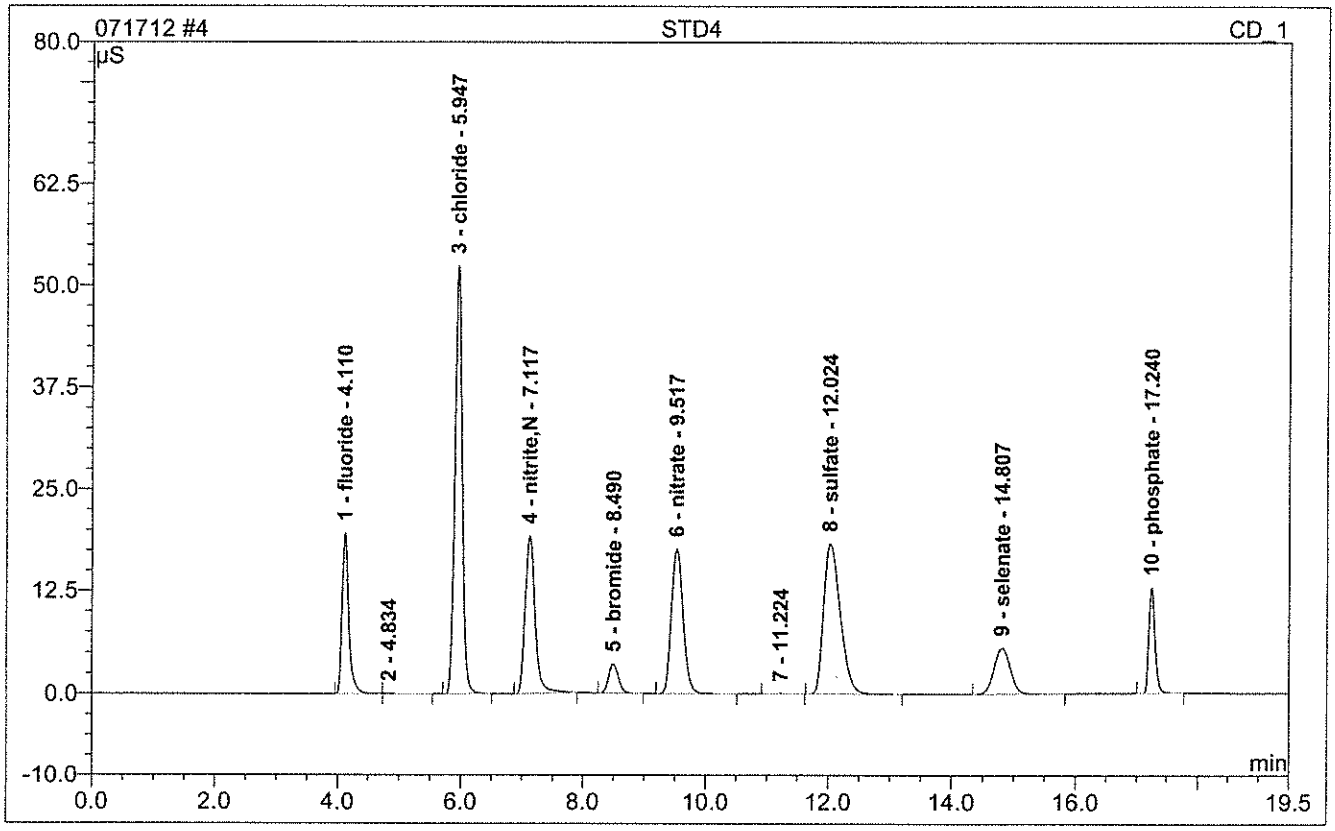
Sample Name:	**STD3**	*Injection Volume:*	**20.0**
Vial Number:	**13**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 3:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.11	fluoride	10.429	1.263	9.37	2.100	1.
3	5.94	chloride	25.961	3.612	26.78	9.573	1.
4	7.12	nitrite,N	10.386	1.877	13.92	2.169	1.
6	8.50	bromide	1.715	0.312	2.31	1.981	1.
7	9.55	nitrate	8.921	1.935	14.35	1.975	1.
9	12.12	sulfate	9.665	2.875	21.32	9.592	1.
11	14.87	selenate	2.945	0.828	6.14	1.969	1.
12	17.26	phosphate	6.631	0.752	5.58	2.042	1.
Total:			76.652	13.455	99.75	31.399	

4 STD4

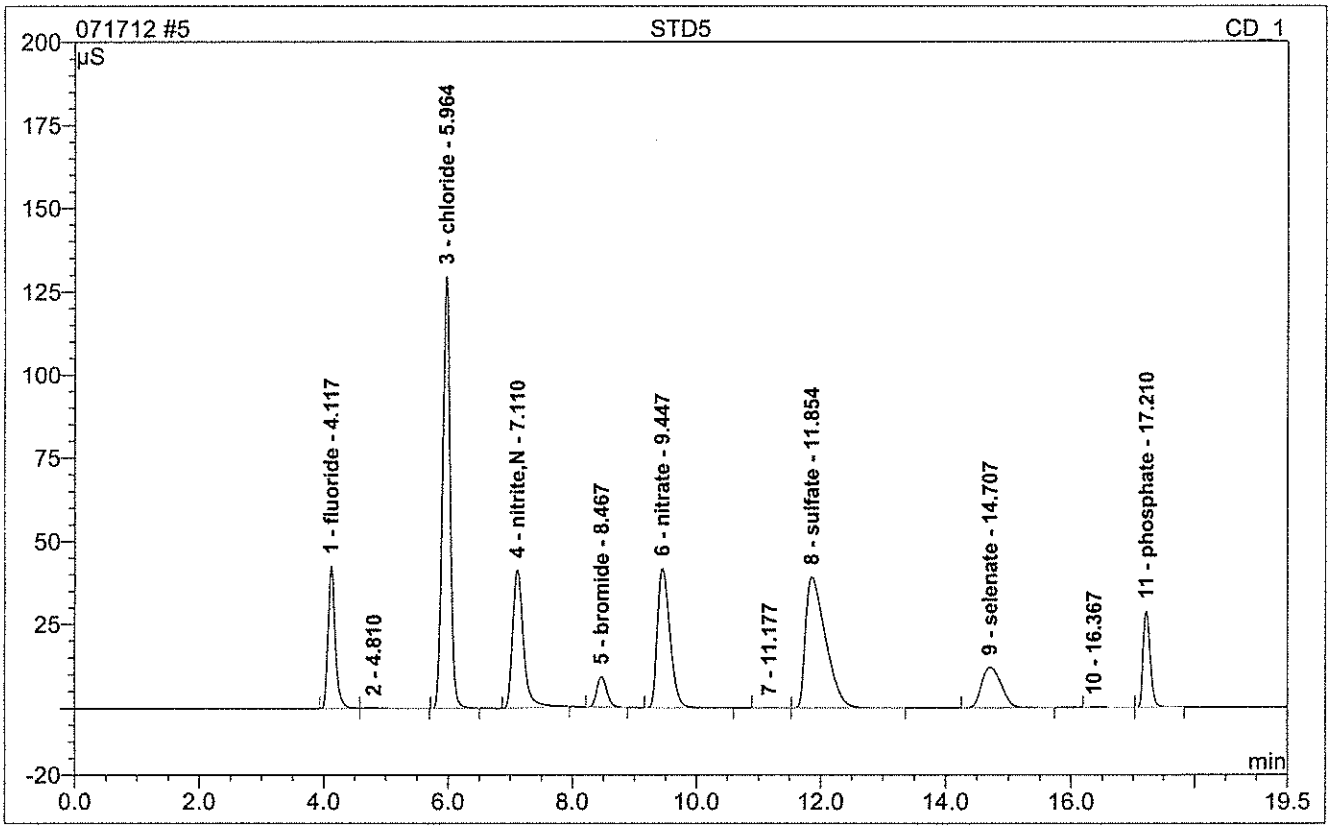
Sample Name:	**STD4**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 3:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.11	fluoride	19.662	2.500	9.24	4.155	1.
3	5.95	chloride	52.499	7.280	26.90	19.296	1.
4	7.12	nitrite,N	19.284	3.642	13.46	4.208	1.
5	8.49	bromide	3.553	0.660	2.44	4.184	1.
6	9.52	nitrate	17.705	3.918	14.48	3.986	1.
8	12.02	sulfate	18.425	5.785	21.37	19.297	1.
9	14.81	selenate	5.609	1.705	6.30	3.951	1.
10	17.24	phosphate	12.963	1.548	5.72	4.201	1.
Total:			149.701	27.037	99.90	63.279	

5 STD5

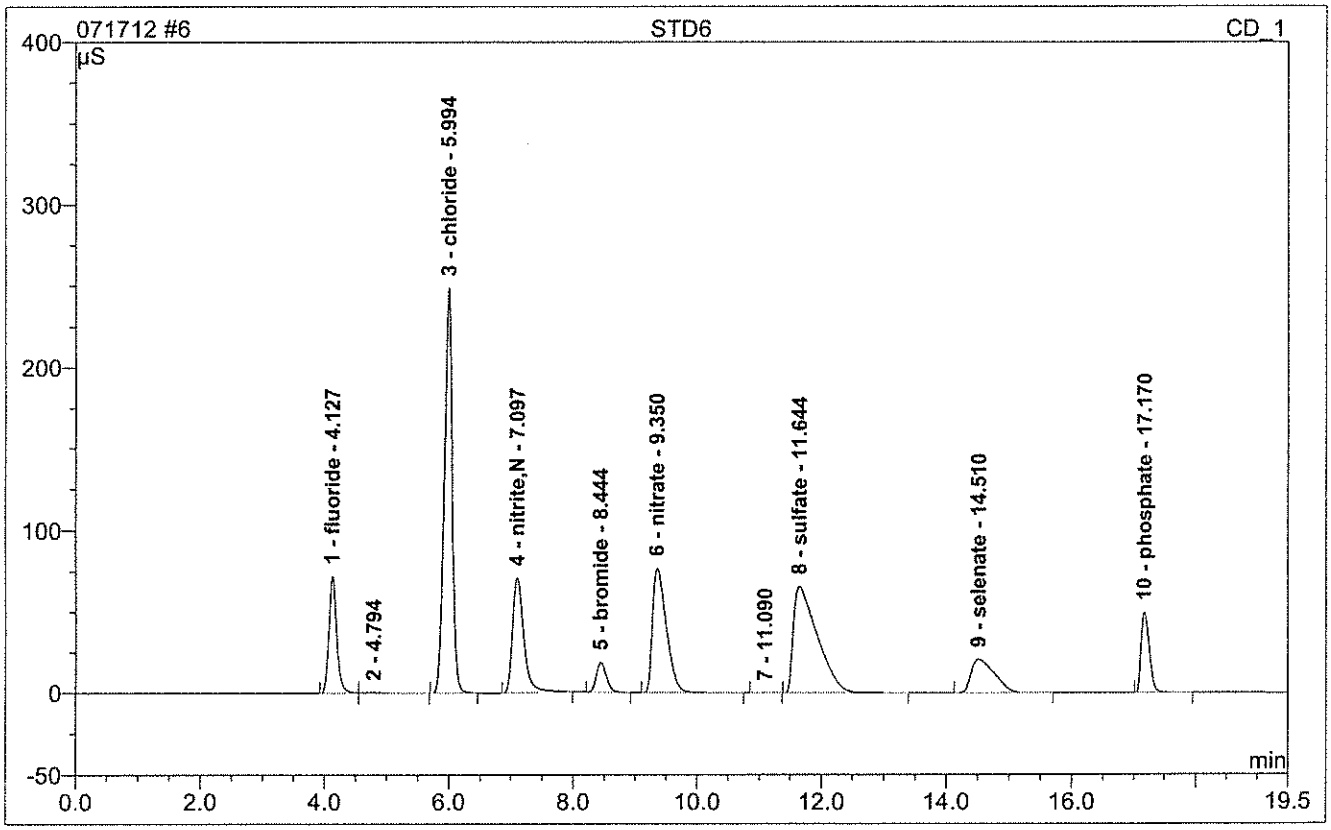
Sample Name:	**STD5**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 4:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.12	fluoride	42.715	5.701	8.57	9.474	1.
3	5.96	chloride	129.654	18.114	27.23	48.016	1.
4	7.11	nitrite,N	41.306	8.402	12.63	9.710	1.
5	8.47	bromide	8.998	1.679	2.52	10.651	1.
6	9.45	nitrate	41.696	9.787	14.71	9.936	1.
8	11.85	sulfate	39.184	14.461	21.74	48.239	1.
9	14.71	selenate	12.100	4.345	6.53	9.916	1.
11	17.21	phosphate	28.819	3.902	5.87	10.590	1.
Total:			344.472	66.391	99.81	156.533	

6 STD6

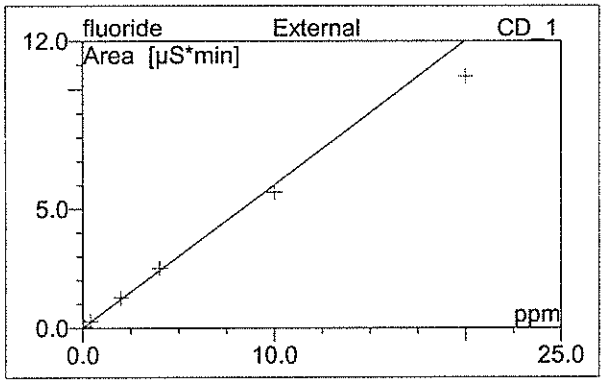
Sample Name:	**STD6**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 4:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

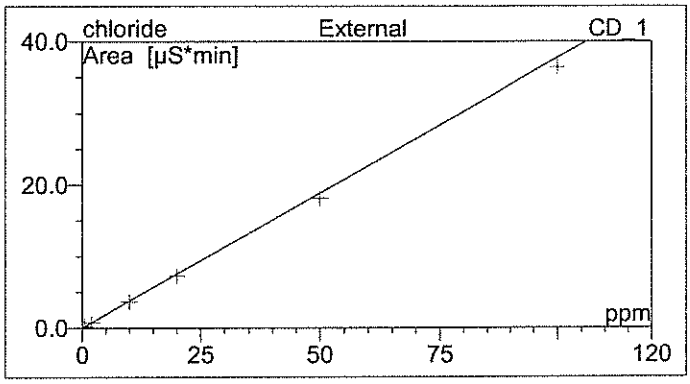


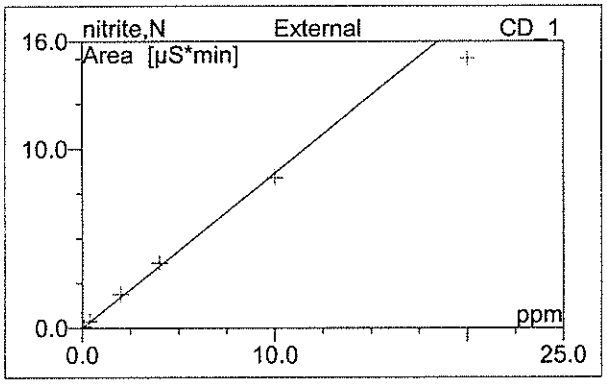
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.13	fluoride	72.229	10.528	8.03	17.497	1.
3	5.99	chloride	248.904	36.372	27.73	96.412	1.
4	7.10	nitrite,N	70.738	15.042	11.47	17.382	1.
5	8.44	bromide	18.369	3.428	2.61	21.747	1.
6	9.35	nitrate	76.387	19.748	15.06	20.037	1.
8	11.64	sulfate	65.160	29.090	22.18	97.039	1.
9	14.51	selenate	20.609	8.832	6.73	20.054	1.
10	17.17	phosphate	49.137	7.886	6.01	21.406	1.
Total:			621.533	130.926	99.83	311.574	

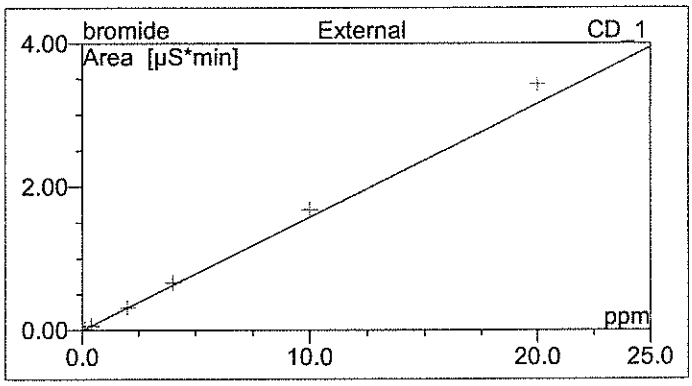
6 STD6

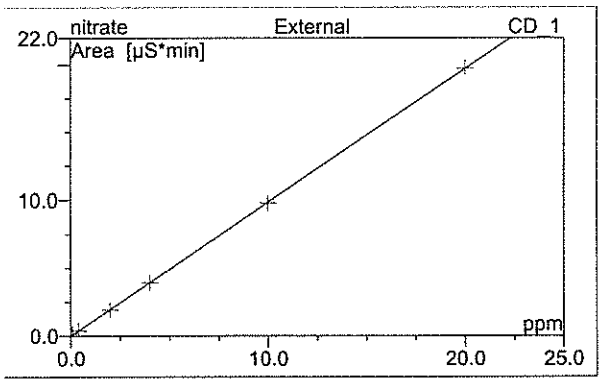
Sample Name:	**STD6**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**6/19/2012 4:33**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

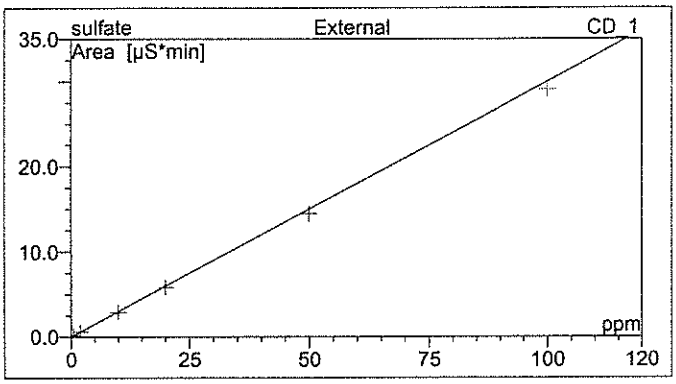


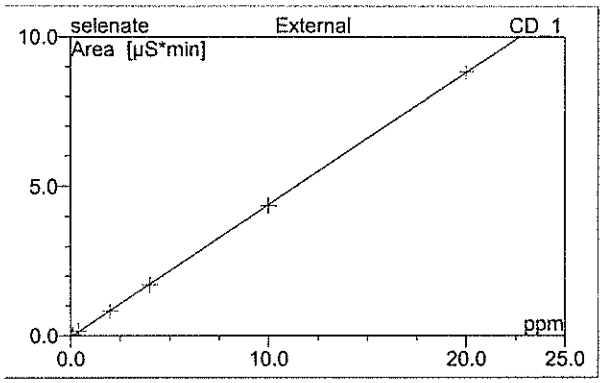


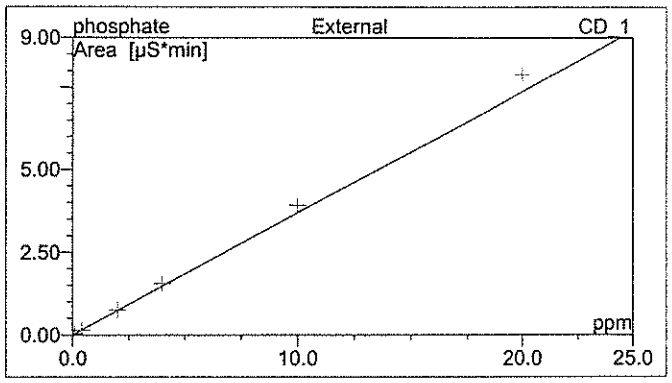












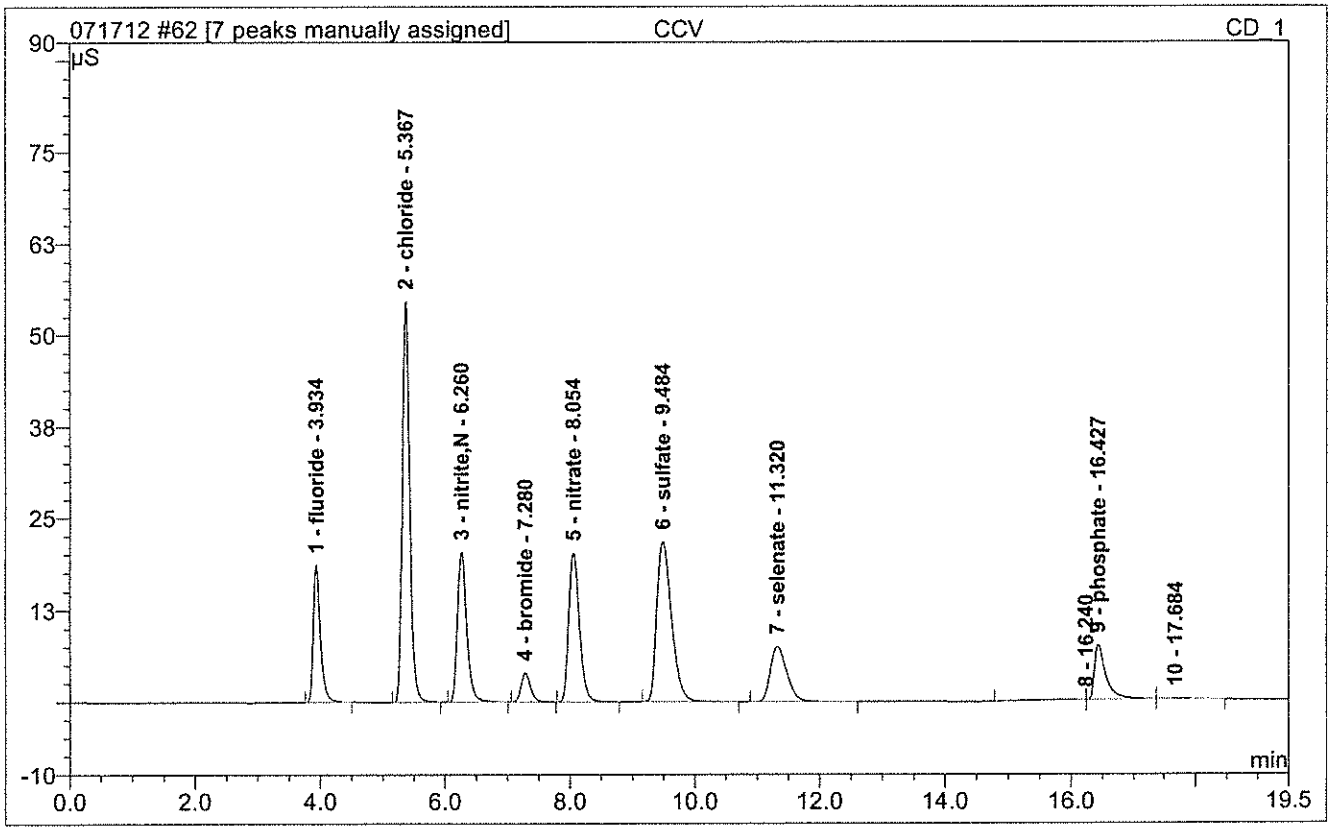
No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	4.13	fluoride	AvCF	6	97.109	0.0000	0.6017	0.000
3	5.99	chloride	AvCF	6	99.747	0.0000	0.3773	0.000
4	7.10	nitrite,N	AvCF	6	96.905	0.0000	0.8654	0.000
5	8.44	bromide	AvCF	6	99.009	0.0000	0.1576	0.000
6	9.35	nitrate	LOff	6	99.996	-0.0125	0.9862	0.000
8	11.64	sulfate	AvCF	6	99.821	0.0000	0.2998	0.000
9	14.51	selenate	LOff	6	99.993	-0.0434	0.4426	0.000
10	17.17	phosphate	AvCF	6	99.309	0.0000	0.3684	0.000
Average:					98.9861	-0.0070	0.5124	0.0000

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	RF-Value	Std.Dev.	RSD %
1	4.13	fluoride	AvCF	6	99.885	1.662	0.058	9.637
3	5.99	chloride	AvCF	6	100.000	2.651	0.031	8.278
4	7.10	nitrite,N	AvCF	6	99.800	1.156	0.073	8.399
5	8.44	bromide	AvCF	6	99.994	6.343	0.013	8.050
6	9.35	nitrate	LOff	6	99.998	1.014	0.052	0.862
8	11.64	sulfate	AvCF	6	99.999	3.336	0.024	7.848
9	14.51	selenate	LOff	6	99.997	2.259	0.031	1.174
10	17.17	phosphate	AvCF	6	99.999	2.714	0.031	8.462
Average:					99.9589	2.6419	0.0390	6.5888

62 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 17:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

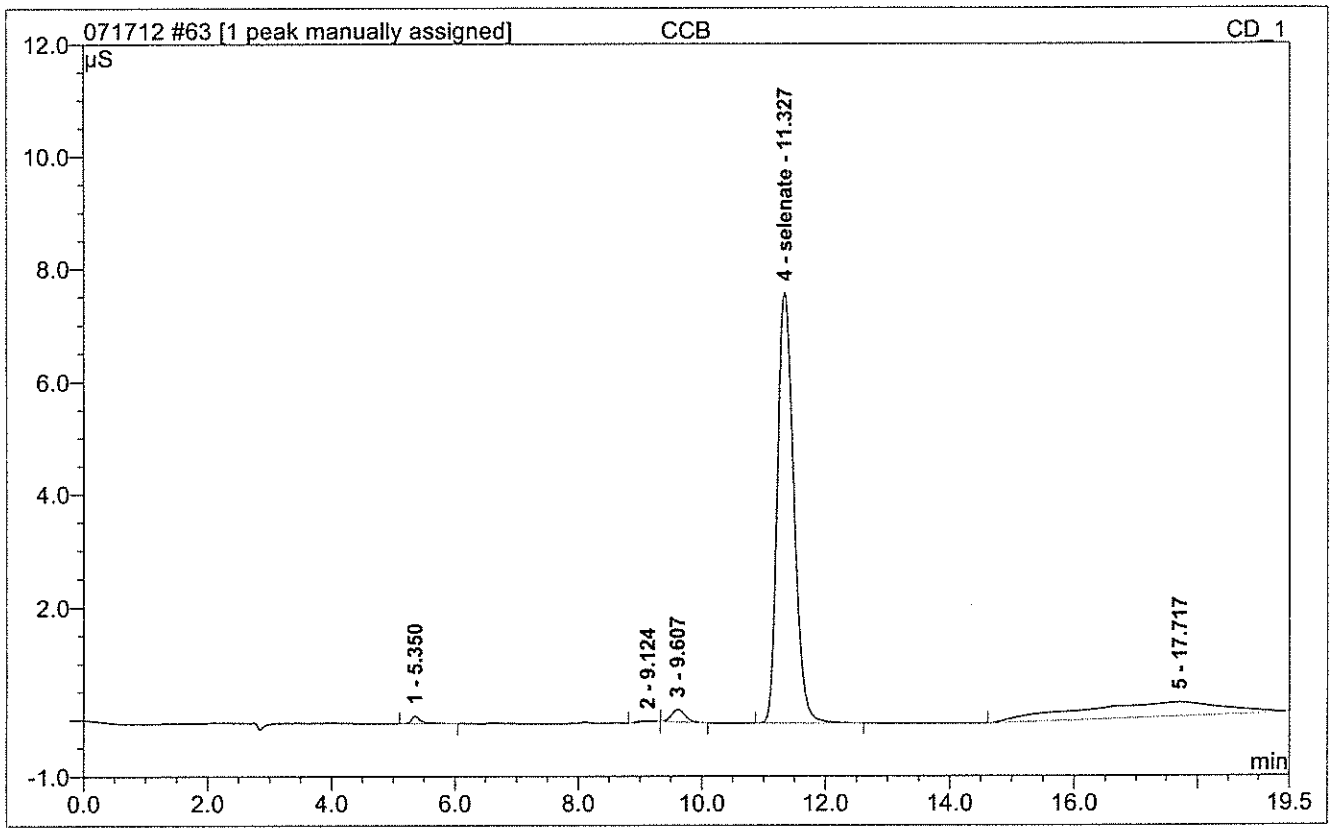


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	18.628	2.470	8.77	4.104	1.
2	5.37	chloride	54.683	7.472	26.54	19.806	1.
3	6.26	nitrite,N	20.382	3.559	12.64	4.113	1.
4	7.28	bromide	3.967	0.689	2.45	4.371	1.
5	8.05	nitrate	20.252	4.030	14.32	4.100	1.
6	9.48	sulfate	21.751	5.977	21.23	19.940	1.
7	11.32	selenate	7.526	2.315	8.23	5.329	1.
9	16.43	phosphate	7.431	1.565	5.56	4.249	1.
Total:			154.621	28.078	99.75	66.011	

63 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 17:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

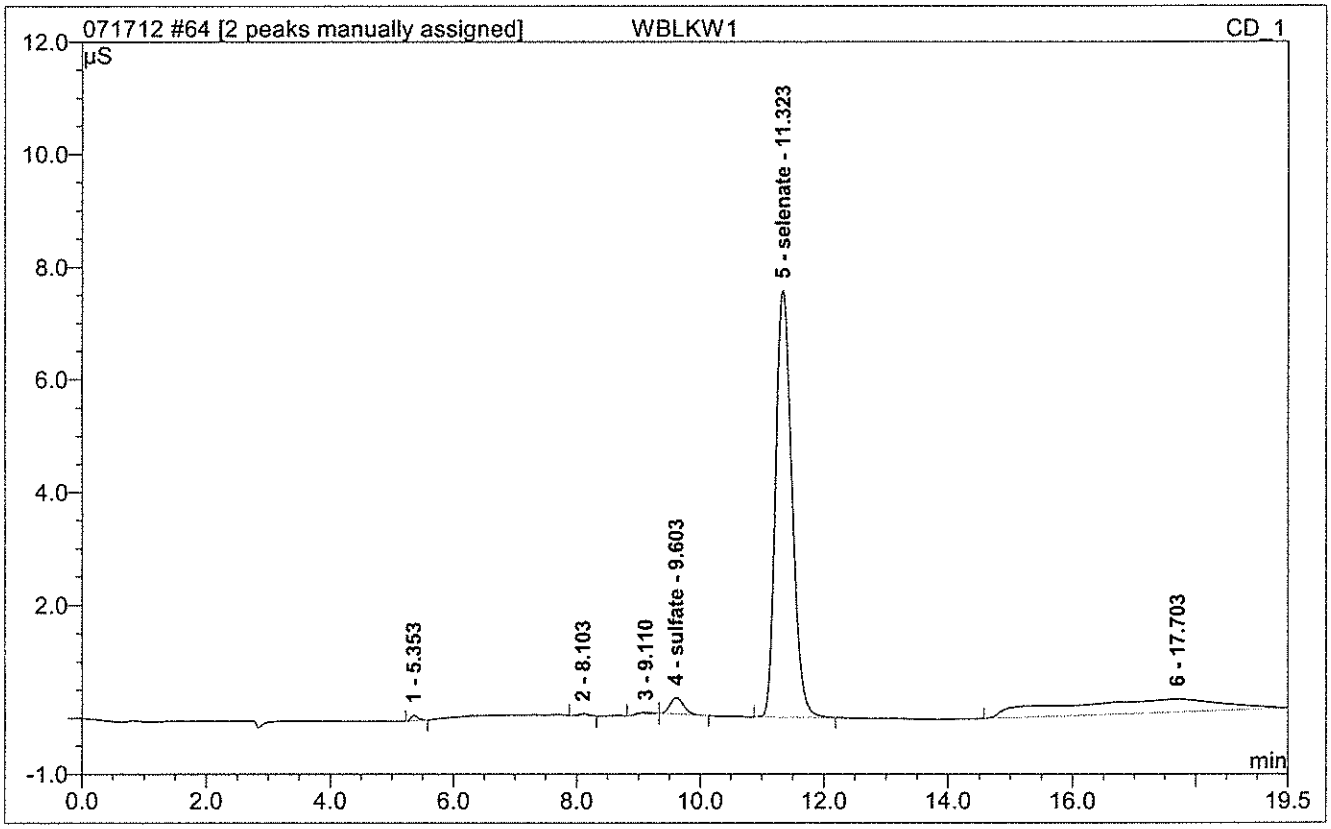


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
4	11.33	selenate	7.633	2.348	74.49	5.403	1.
Total:			7.633	2.348	74.49	5.403	

64 WBLKW1

NO3

Sample Name:	**WBLKW1**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 17:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

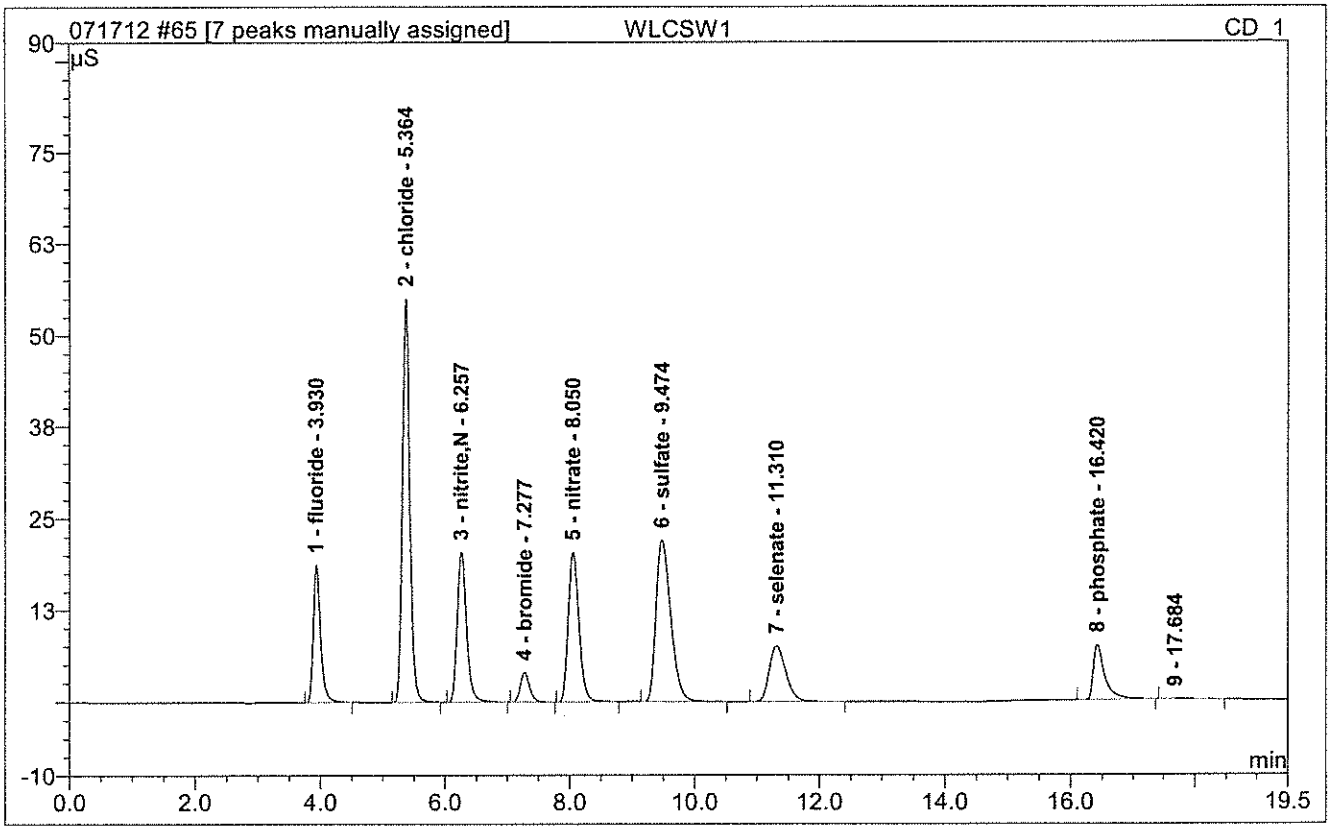


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
4	9.60	sulfate	0.294	0.075	2.37	0.250	1.
5	11.32	selenate	7.563	2.311	72.88	5.319	1.
Total:			7.857	2.386	75.25	5.569	

65 WLCSW1

NO3

Sample Name:	**WLCSW1**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 18:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

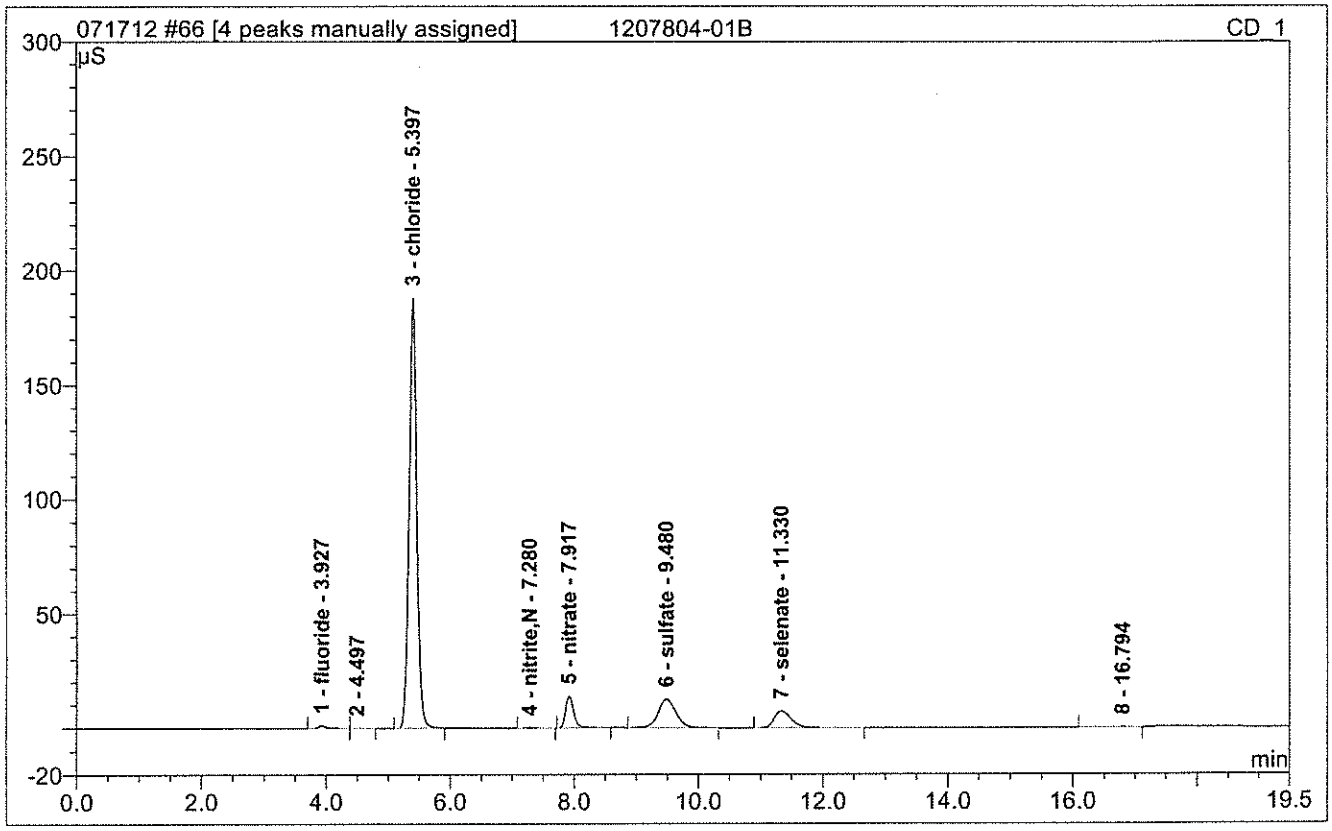


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	18.733	2.483	8.79	4.127	1.
2	5.36	chloride	55.133	7.526	26.64	19.950	1.
3	6.26	nitrite,N	20.506	3.573	12.65	4.129	1.
4	7.28	bromide	3.988	0.692	2.45	4.388	1.
5	8.05	nitrate	20.398	4.048	14.33	4.117	1.
6	9.47	sulfate	22.011	6.023	21.32	20.090	1.
7	11.31	selenate	7.569	2.322	8.22	5.344	1.
8	16.42	phosphate	7.492	1.568	5.55	4.255	1.
Total:			155.829	28.234	99.94	66.400	

66 1207804-01B

NO3

Sample Name:	**1207804-01B**	*Injection Volume:*	**20.0**
Vial Number:	**11**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 19:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

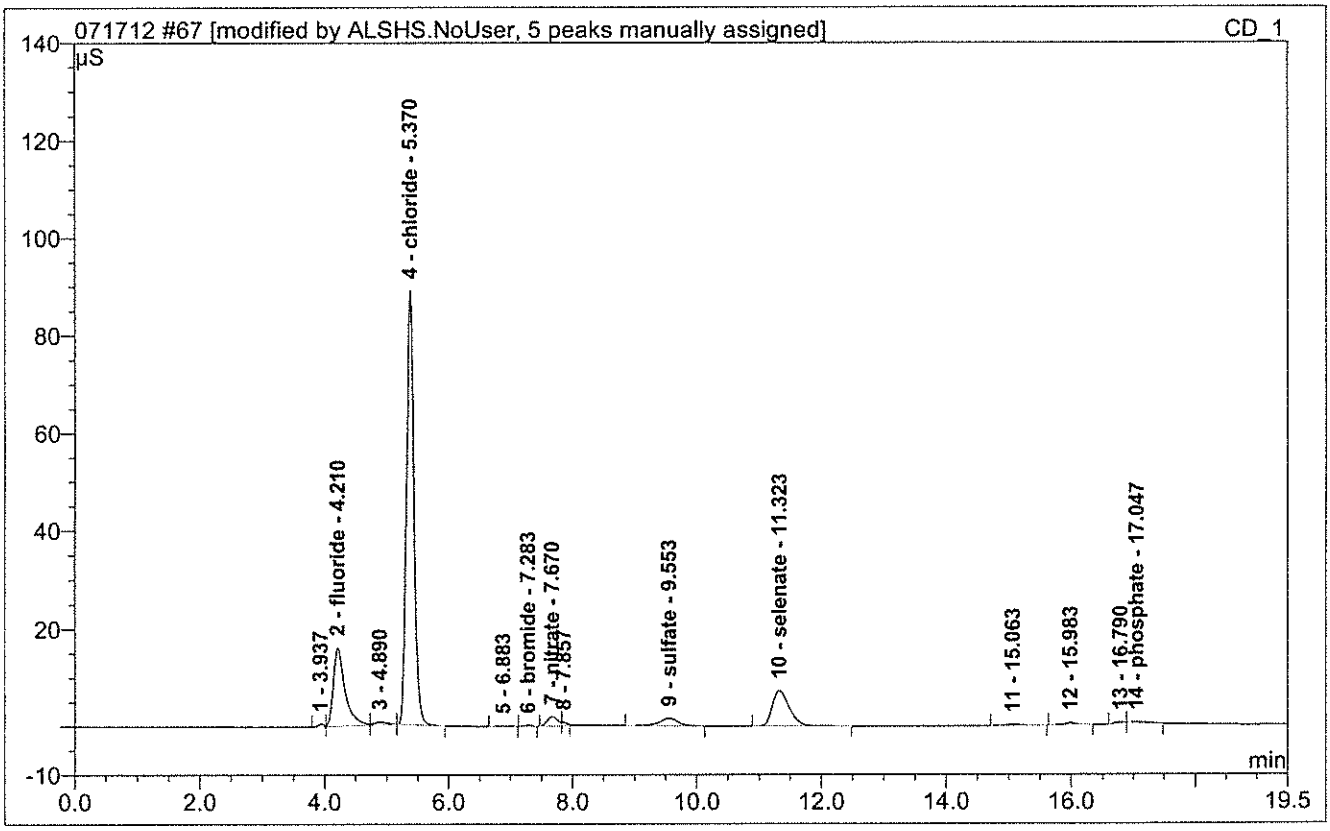


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	1.206	0.173	0.49	0.287	1.
3	5.40	chloride	187.985	26.580	75.10	70.456	1.
4	7.28	nitrite,N	0.234	0.041	0.12	0.047	1.
5	7.92	nitrate	13.844	2.144	6.06	2.187	1.
6	9.48	sulfate	12.499	4.105	11.60	13.694	1.
7	11.33	selenate	7.305	2.320	6.56	5.341	1.
Total:			223.073	35.363	99.92	92.012	

67 1207804-05B

NO3

Sample Name:	**1207804-05B**	*Injection Volume:*	**20.0**
Vial Number:	**12**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 20:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

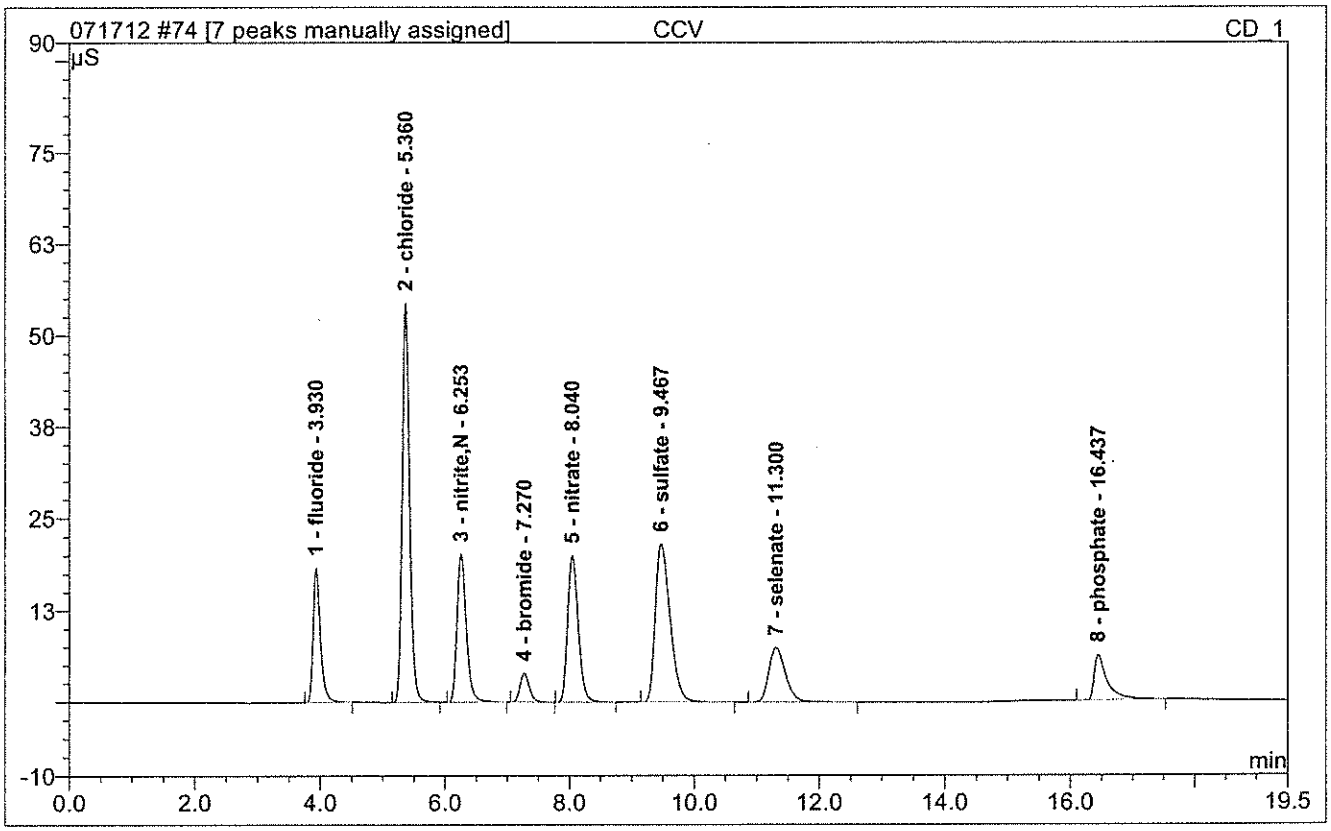


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
2	4.21	fluoride	16.043	3.516	17.79	5.844	1.
4	5.37	chloride	88.858	12.515	63.32	33.173	1.
6	7.28	bromide	0.165	0.024	0.12	0.149	1.
7	7.67	nitrate	1.941	0.392	1.99	0.411	1.
9	9.55	sulfate	1.534	0.532	2.69	1.774	1.
10	11.32	selenate	7.228	2.297	11.62	5.288	1.
14	17.05	phosphate	0.144	0.047	0.24	0.128	1.
Total:			115.911	19.323	97.76	46.767	

74 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 22:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

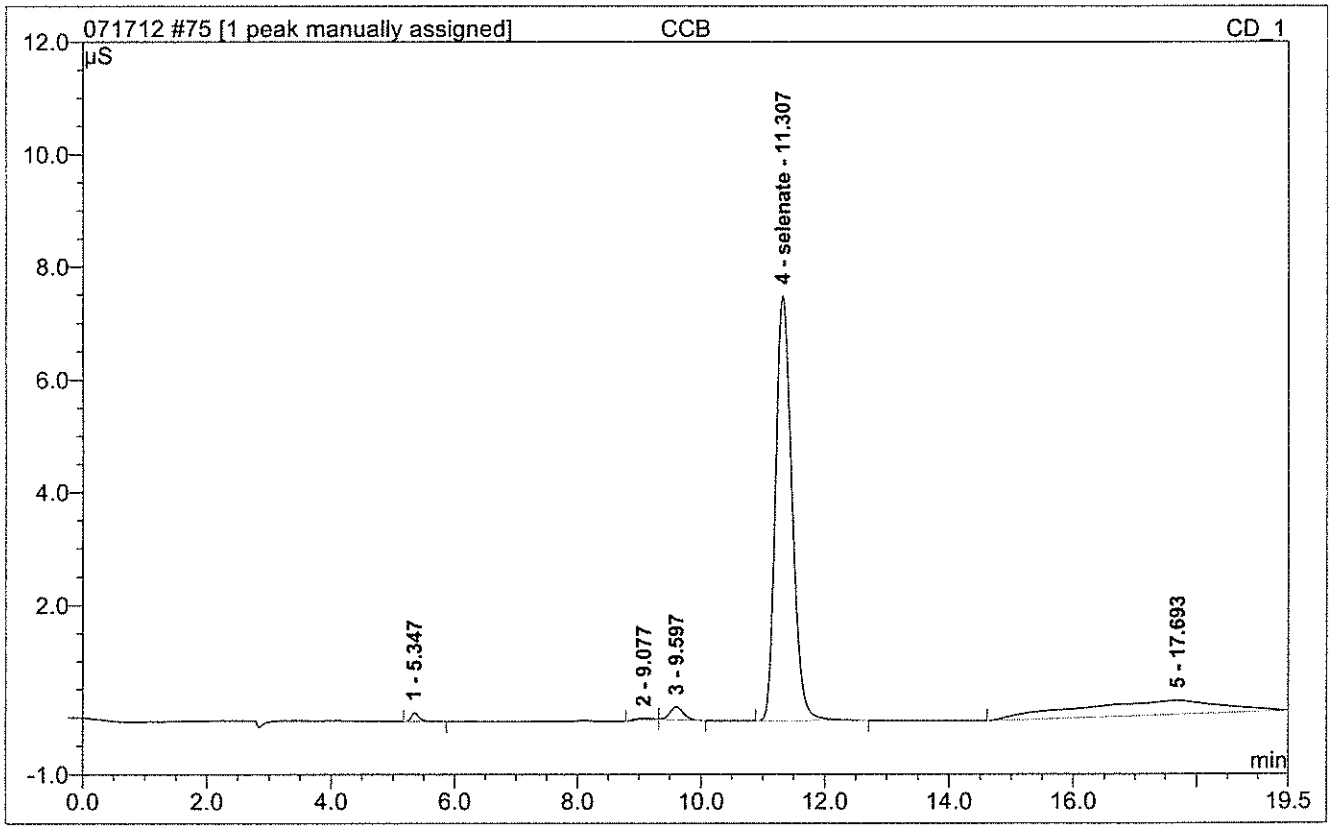


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	18.409	2.457	8.83	4.083	1.
2	5.36	chloride	54.479	7.458	26.79	19.769	1.
3	6.25	nitrite,N	20.247	3.538	12.71	4.088	1.
4	7.27	bromide	3.935	0.682	2.45	4.325	1.
5	8.04	nitrate	20.035	3.990	14.33	4.059	1.
6	9.47	sulfate	21.531	5.913	21.24	19.723	1.
7	11.30	selenate	7.452	2.292	8.23	5.276	1.
8	16.44	phosphate	6.227	1.509	5.42	4.096	1.
Total:			152.314	27.838	100.00	65.420	

75 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 23:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

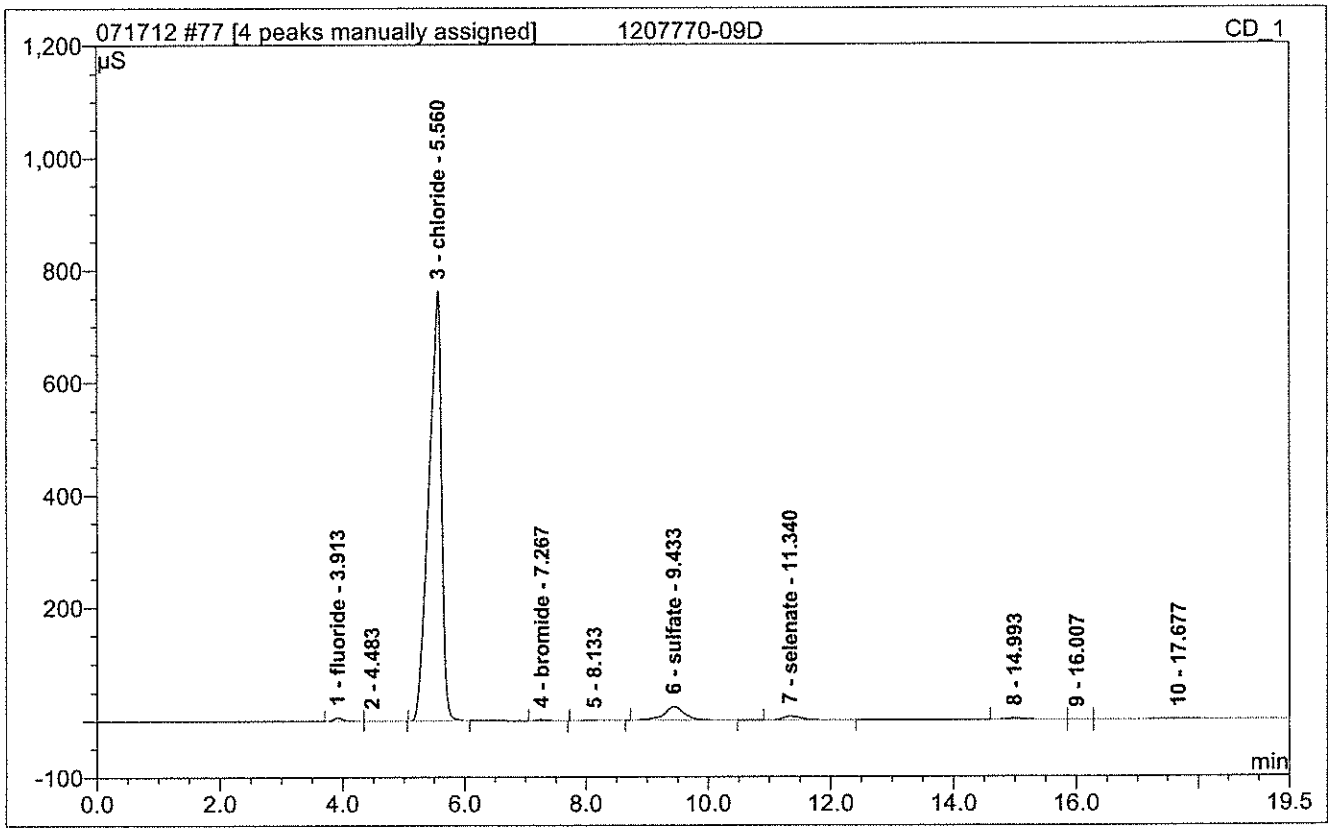


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
4	11.31	selenate	7.533	2.329	74.66	5.360	1.
Total:			7.533	2.329	74.66	5.360	

77 1207770-09D

NO3

Sample Name:	**1207770-09D**	*Injection Volume:*	**20.0**
Vial Number:	**20**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/18/2012 23:50**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

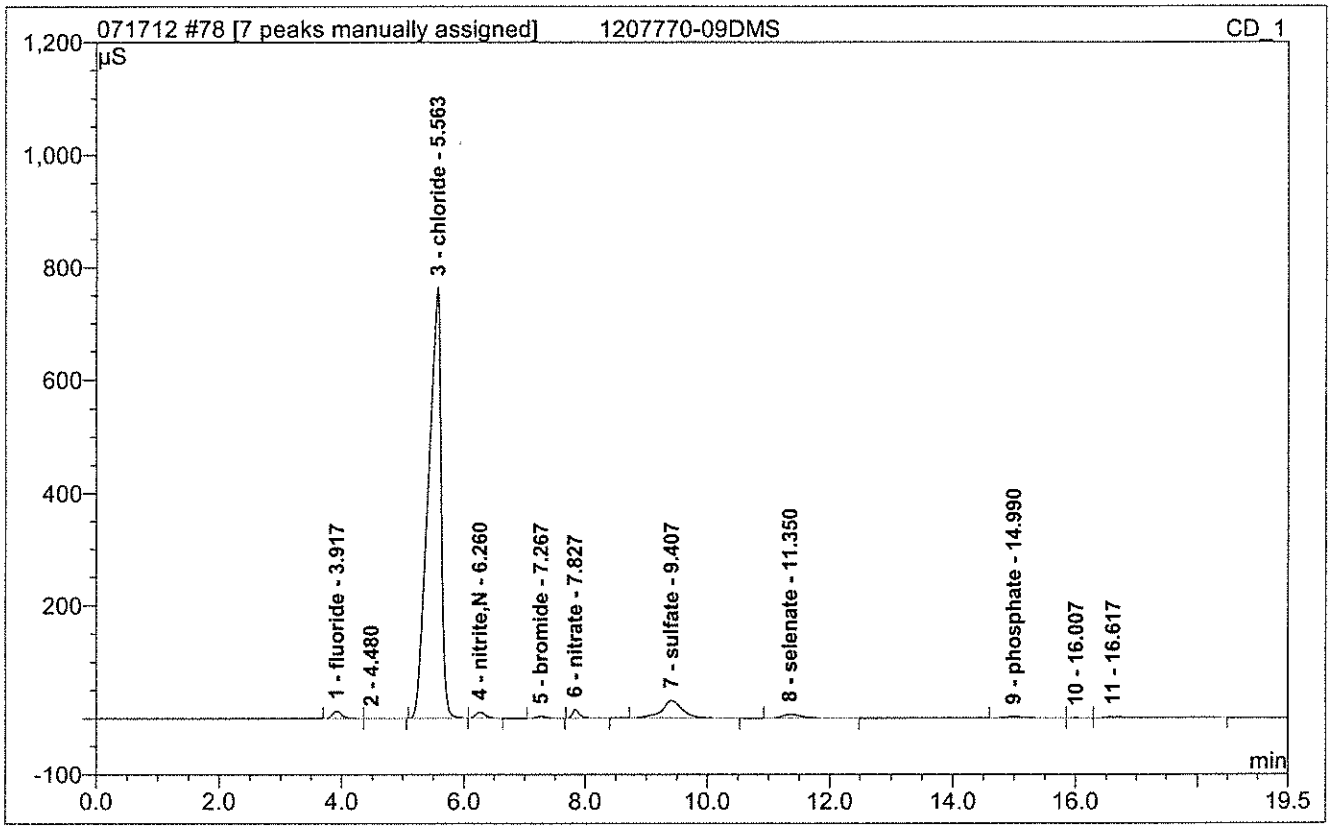


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.91	fluoride	6.356	1.080	0.55	1.795	1.
3	5.56	chloride	762.001	184.097	92.91	487.989	1.
4	7.27	bromide	1.717	0.296	0.15	1.881	1.
6	9.43	sulfate	24.128	9.318	4.70	31.084	1.
7	11.34	selenate	6.881	2.298	1.16	5.289	1.
Total:			801.084	197.089	99.47	528.038	

78 1207770-09DMS

NO3

Sample Name:	**1207770-09DMS**	*Injection Volume:*	**20.0**
Vial Number:	**21**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 0:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

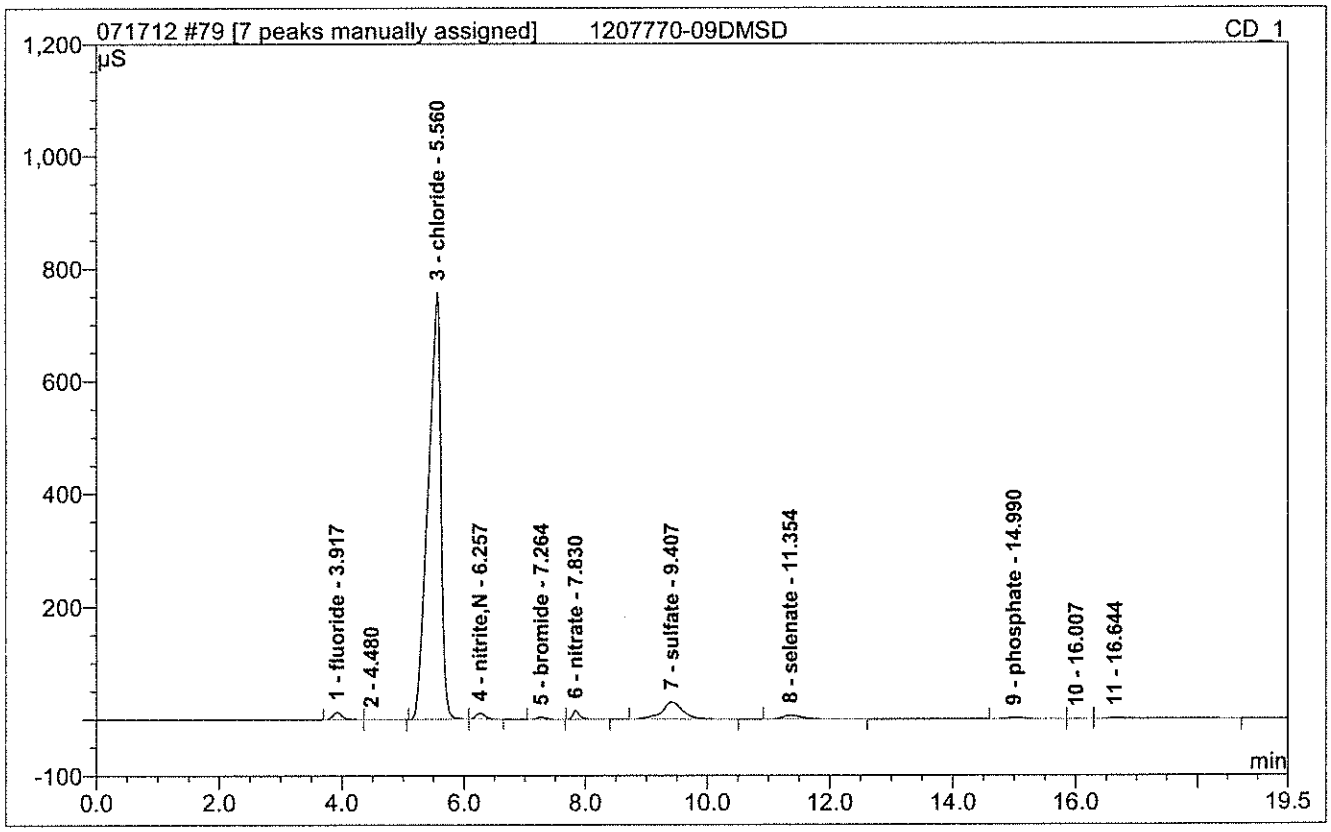


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.92	fluoride	13.269	2.300	1.11	3.823	1.
3	5.56	chloride	763.580	185.357	89.10	491.328	1.
4	6.26	nitrite,N	10.527	1.774	0.85	2.050	1.
5	7.27	bromide	3.718	0.641	0.31	4.067	1.
6	7.83	nitrate	15.534	1.991	0.96	2.032	1.
7	9.41	sulfate	30.982	12.110	5.82	40.399	1.
8	11.35	selenate	6.833	2.300	1.11	5.294	1.
9	14.99	phosphate	2.359	0.725	0.35	1.969	1.
Total:			846.803	207.199	99.59	550.962	

79 1207770-09DMSD

NO3

Sample Name:	**1207770-09DMSD**	*Injection Volume:*	**20.0**
Vial Number:	**22**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 0:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

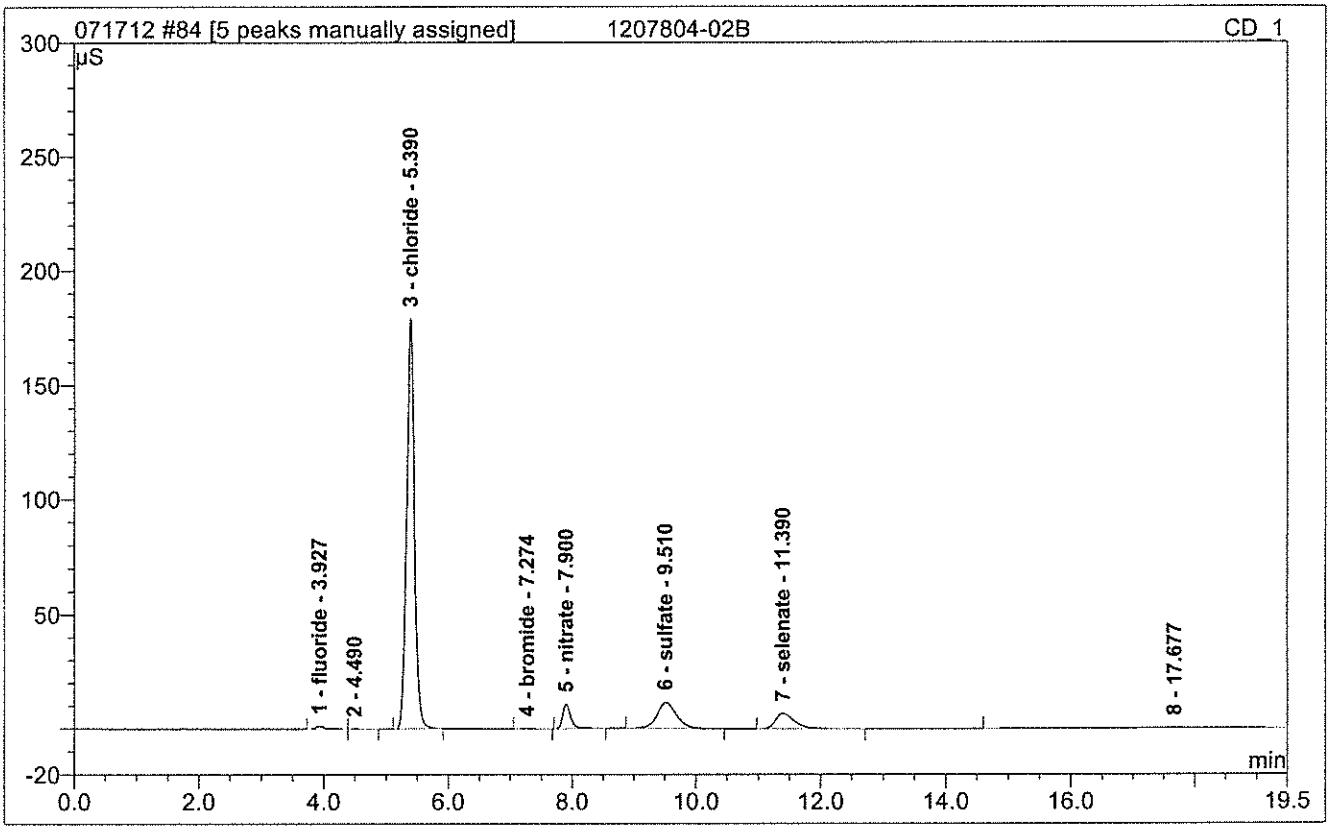


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.92	fluoride	13.124	2.265	1.10	3.764	1.
3	5.56	chloride	757.782	182.889	89.08	484.788	1.
4	6.26	nitrite,N	10.426	1.749	0.85	2.022	1.
5	7.26	bromide	3.667	0.633	0.31	4.015	1.
6	7.83	nitrate	15.234	1.964	0.96	2.004	1.
7	9.41	sulfate	30.484	11.961	5.83	39.900	1.
8	11.35	selenate	6.711	2.270	1.11	5.227	1.
9	14.99	phosphate	2.329	0.714	0.35	1.938	1.
Total:			839.756	204.445	99.58	543.657	

84 1207804-02B

NO3

Sample Name:	**1207804-02B**	*Injection Volume:*	**20.0**
Vial Number:	**27**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 2:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

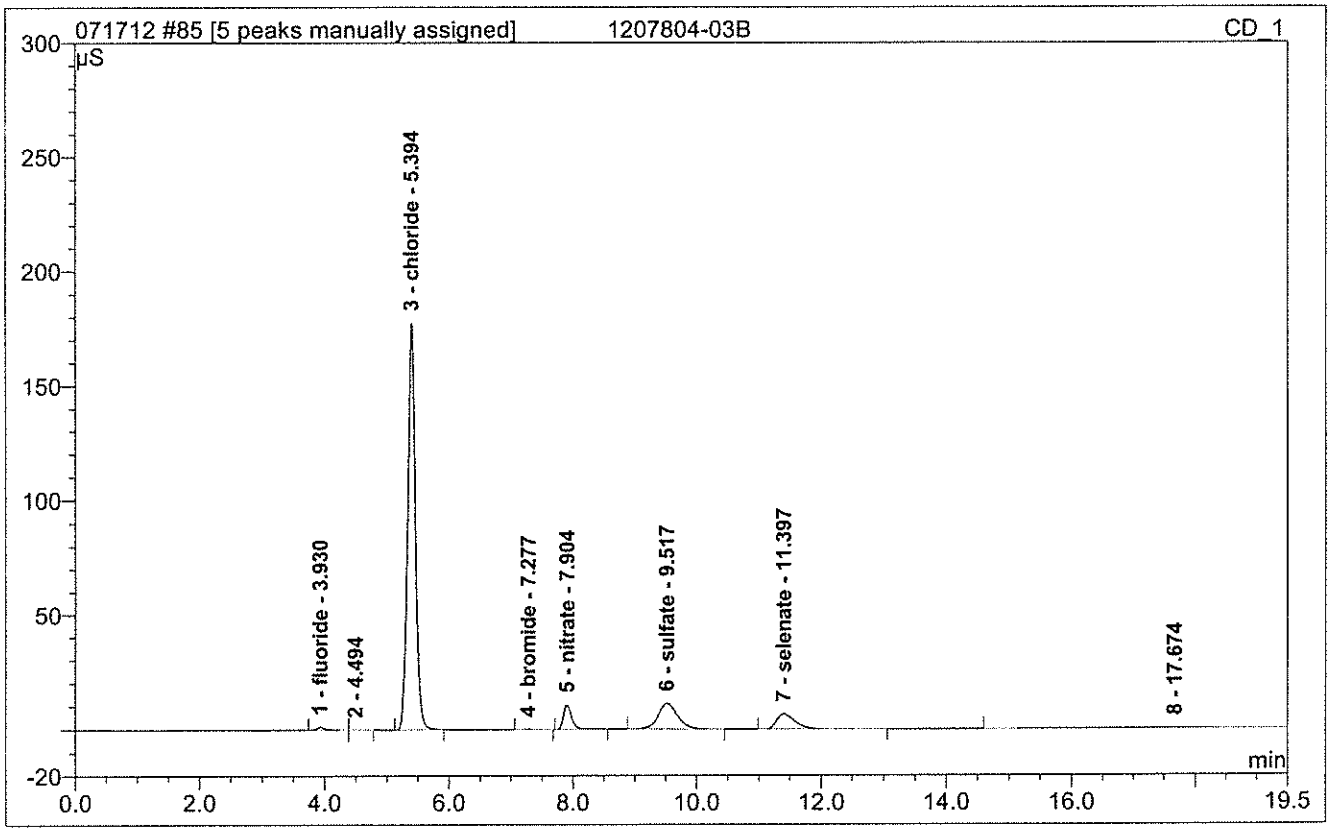


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	1.314	0.206	0.59	0.343	1.
3	5.39	chloride	178.964	25.842	74.27	68.500	1.
4	7.27	bromide	0.225	0.039	0.11	0.250	1.
5	7.90	nitrate	10.663	1.638	4.71	1.673	1.
6	9.51	sulfate	11.370	4.112	11.82	13.717	1.
7	11.39	selenate	6.615	2.283	6.56	5.256	1.
Total:			209.150	34.120	98.06	89.739	

85 1207804-03B

NO3

Sample Name:	**1207804-03B**	*Injection Volume:*	**20.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 2:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

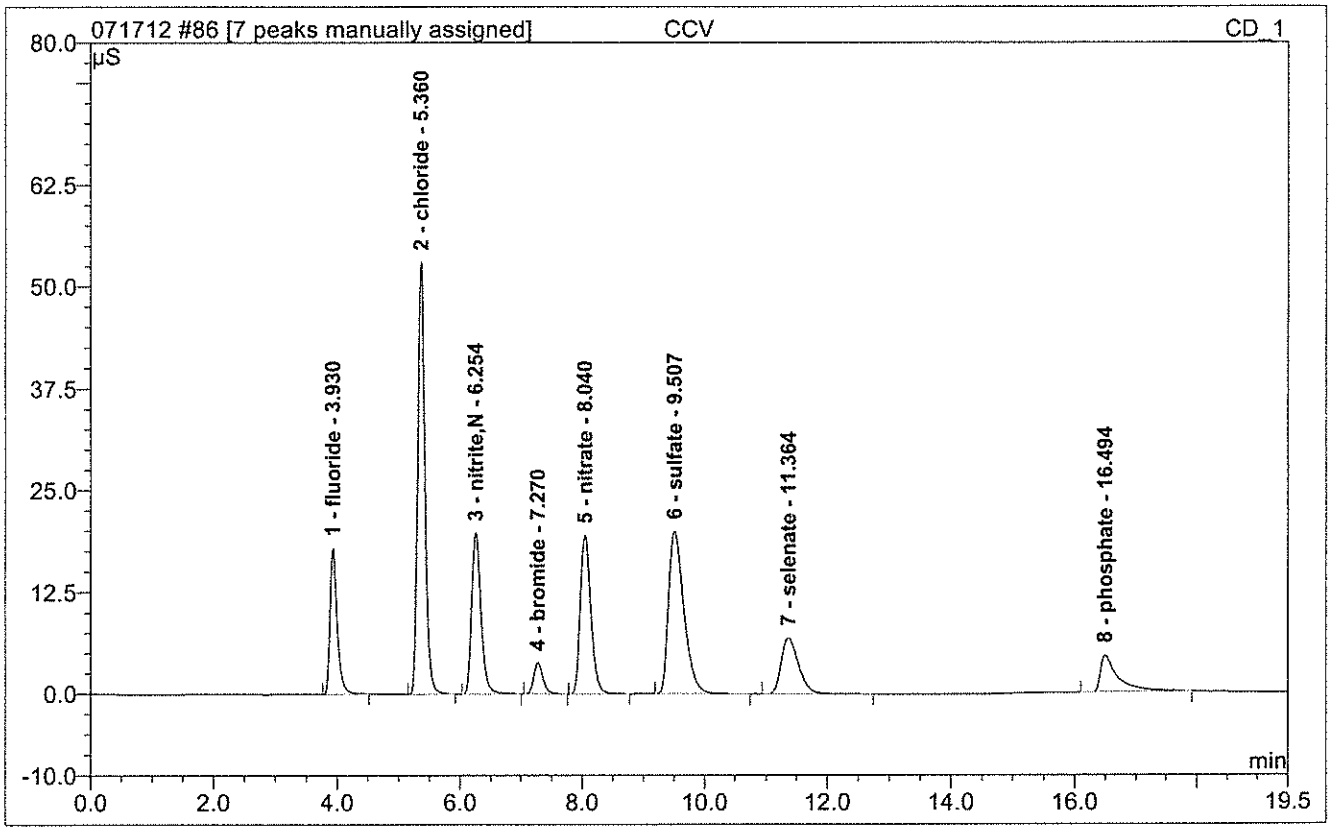


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	1.281	0.199	0.58	0.330	1.
3	5.39	chloride	177.608	25.587	74.27	67.824	1.
4	7.28	bromide	0.221	0.039	0.11	0.247	1.
5	7.90	nitrate	10.619	1.644	4.77	1.679	1.
6	9.52	sulfate	11.126	4.038	11.72	13.471	1.
7	11.40	selenate	6.523	2.270	6.59	5.227	1.
Total:			207.380	33.777	98.04	88.778	

86 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 2:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

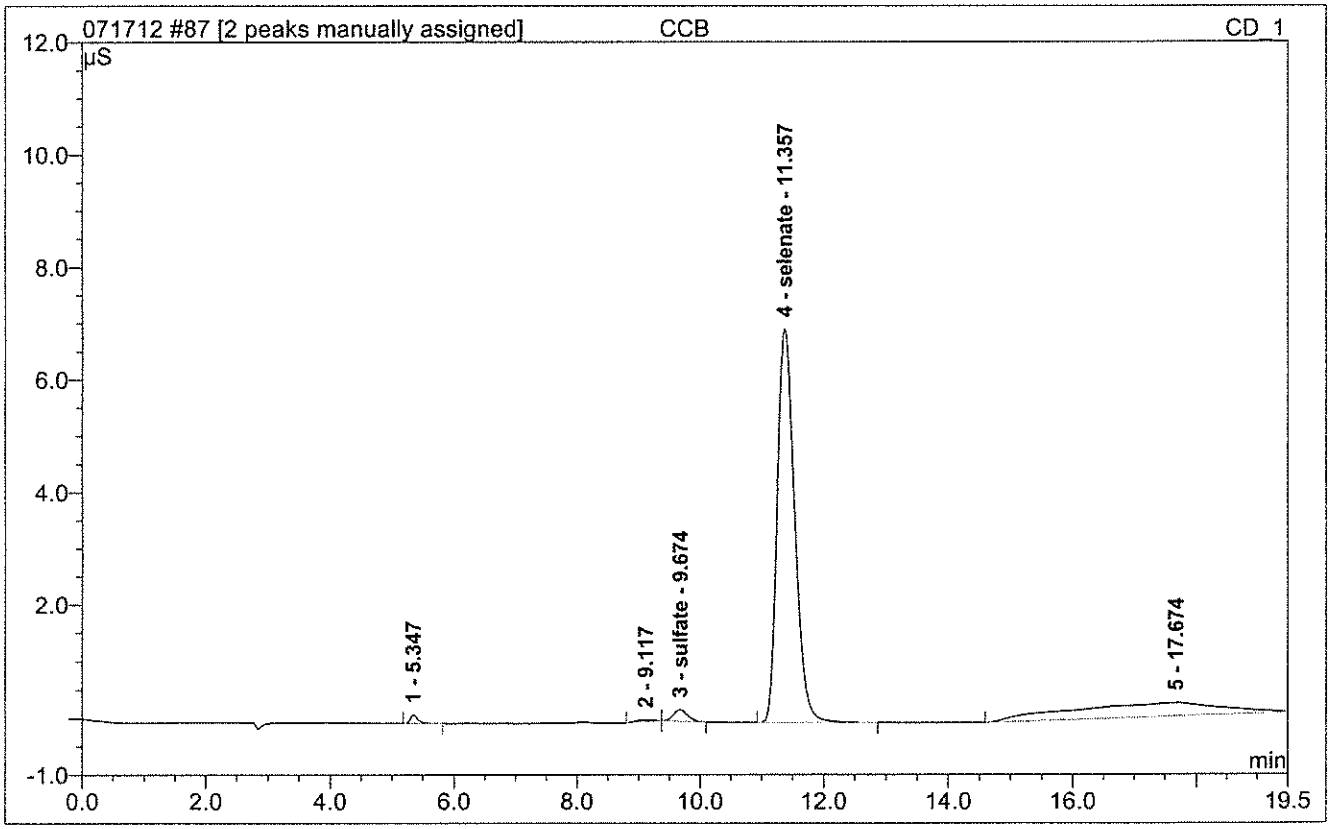


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	17.891	2.415	8.85	4.013	1.
2	5.36	chloride	53.029	7.293	26.72	19.330	1.
3	6.25	nitrite,N	19.754	3.473	12.72	4.013	1.
4	7.27	bromide	3.838	0.667	2.44	4.229	1.
5	8.04	nitrate	19.434	3.917	14.35	3.984	1.
6	9.51	sulfate	19.884	5.798	21.24	19.340	1.
7	11.36	selenate	6.882	2.240	8.21	5.158	1.
8	16.49	phosphate	4.493	1.495	5.48	4.057	1.
Total:			145.205	27.296	100.00	64.126	

87 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 3:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

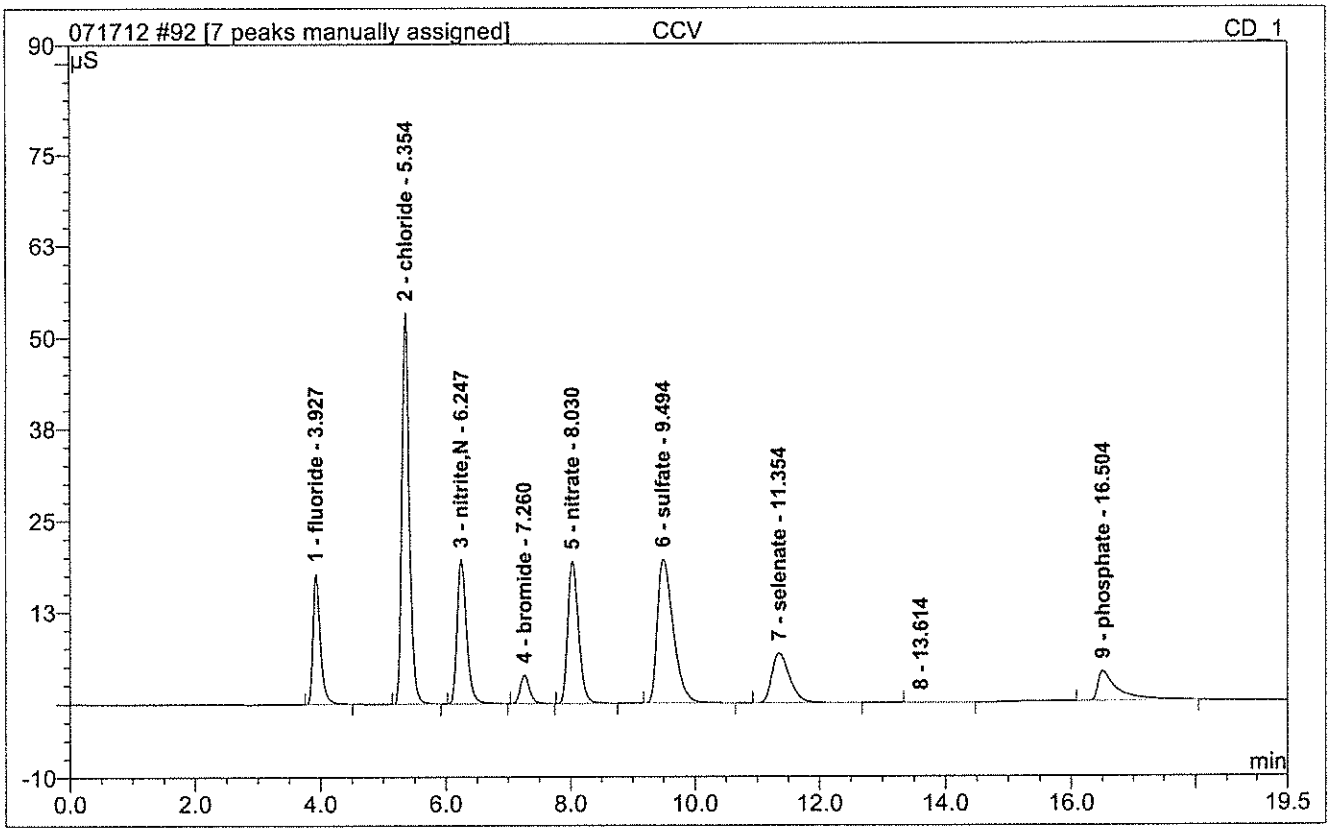


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
3	9.67	sulfate	0.203	0.054	1.78	0.180	1.
4	11.36	selenate	6.980	2.266	74.72	5.219	1.
Total:			7.184	2.320	76.50	5.398	

92 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 5:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

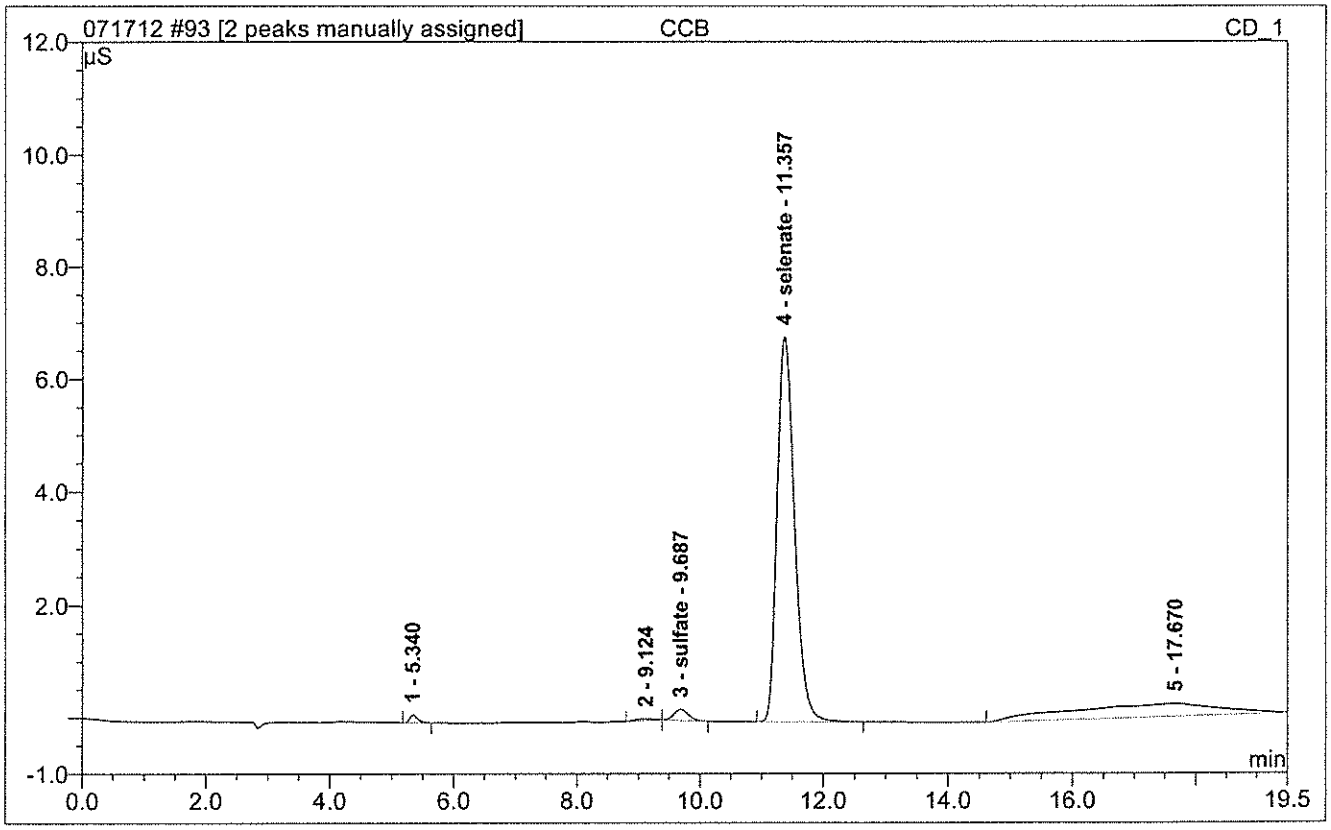


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	17.745	2.409	8.82	4.003	1.
2	5.35	chloride	53.391	7.354	26.94	19.492	1.
3	6.25	nitrite,N	19.659	3.460	12.68	3.999	1.
4	7.26	bromide	3.823	0.664	2.43	4.214	1.
5	8.03	nitrate	19.365	3.903	14.30	3.971	1.
6	9.49	sulfate	19.564	5.779	21.17	19.277	1.
7	11.35	selenate	6.752	2.229	8.17	5.135	1.
9	16.50	phosphate	4.052	1.493	5.47	4.053	1.
Total:			144.351	27.292	99.97	64.143	

93 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 5:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

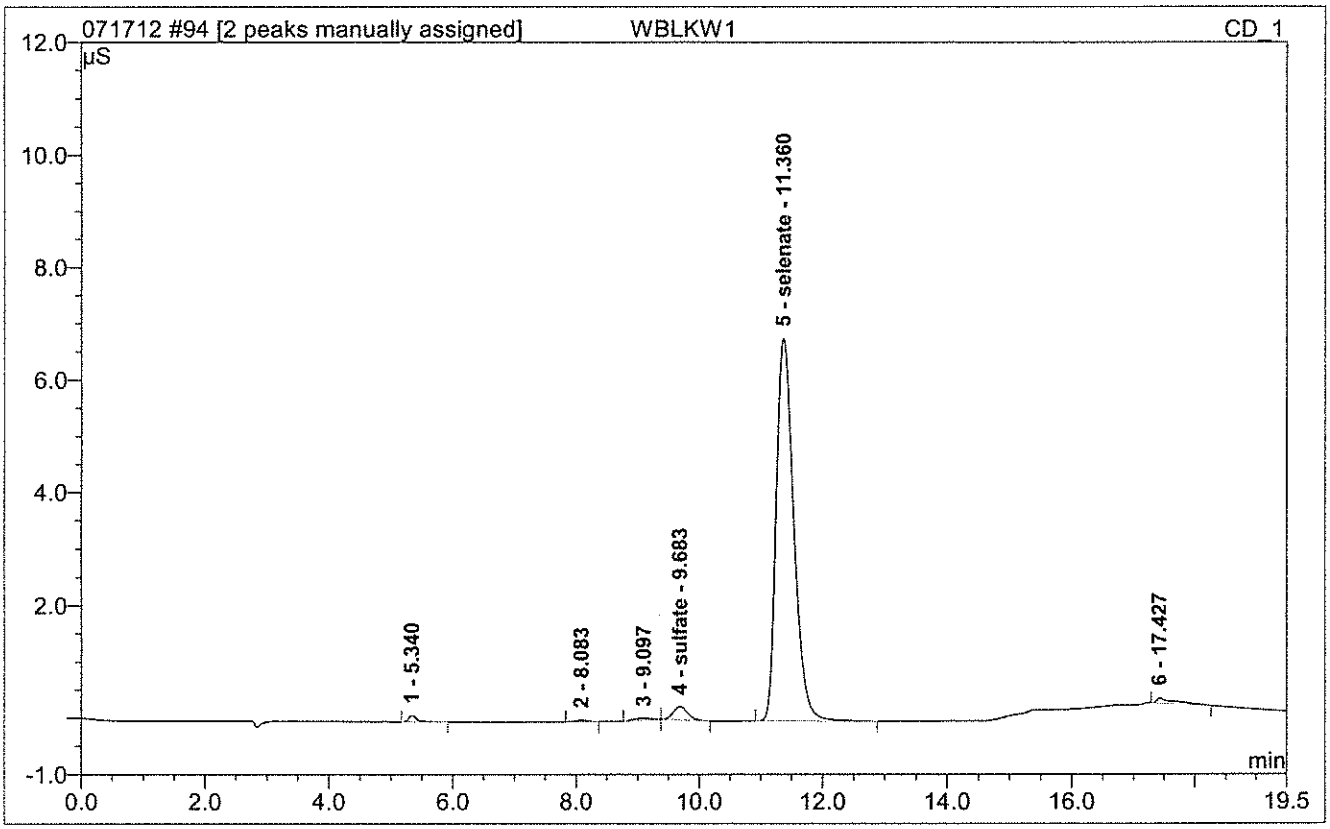


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
3	9.69	sulfate	0.198	0.053	1.78	0.178	1.
4	11.36	selenate	6.832	2.248	75.09	5.176	1.
Total:			7.030	2.301	76.88	5.354	

94 WBLKW1

NO3

Sample Name:	**WBLKW1**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 5:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

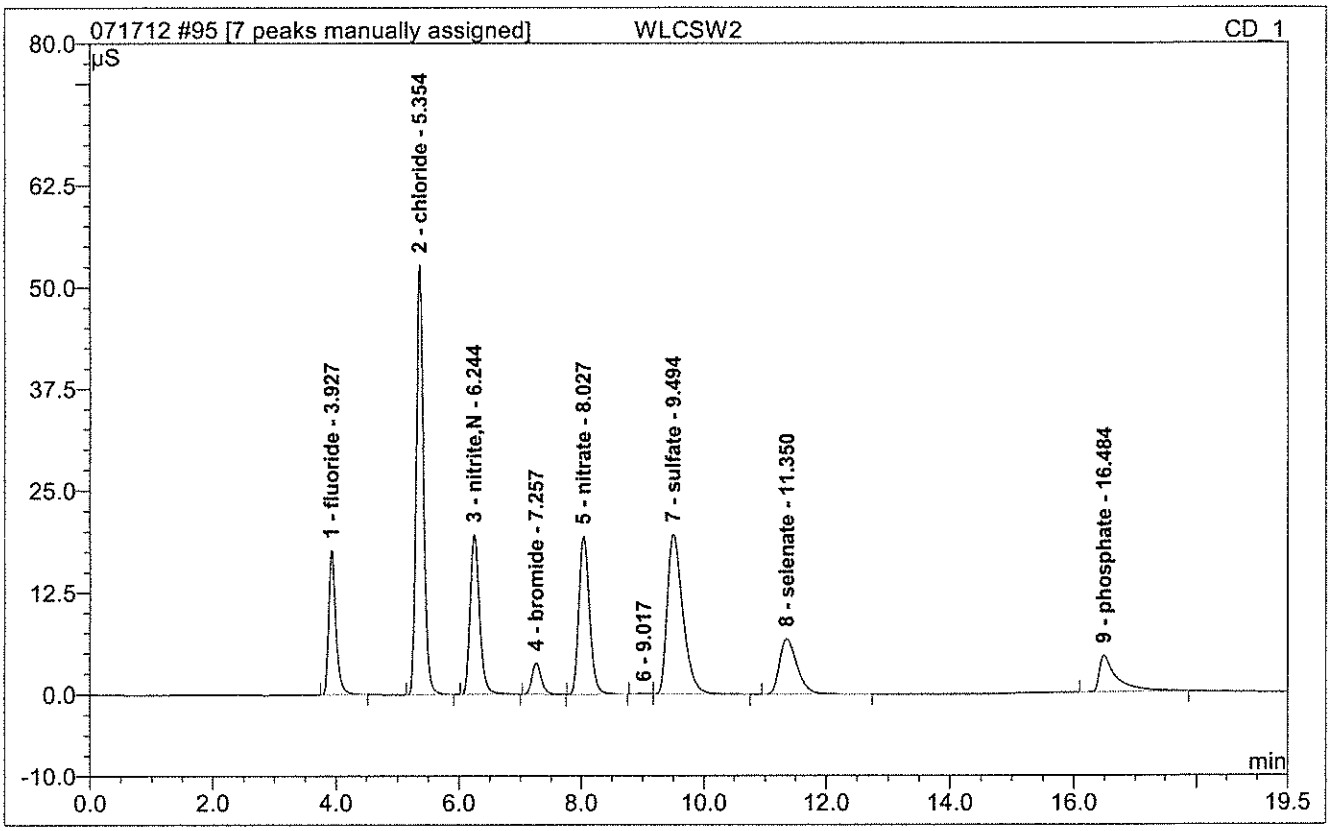


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
4	9.68	sulfate	0.236	0.064	2.72	0.215	1.
5	11.36	selenate	6.783	2.235	94.35	5.148	1.
Total:			7.018	2.300	97.07	5.363	

95 WLCSW2

NO3

Sample Name:	**WLCSW2**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 6:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

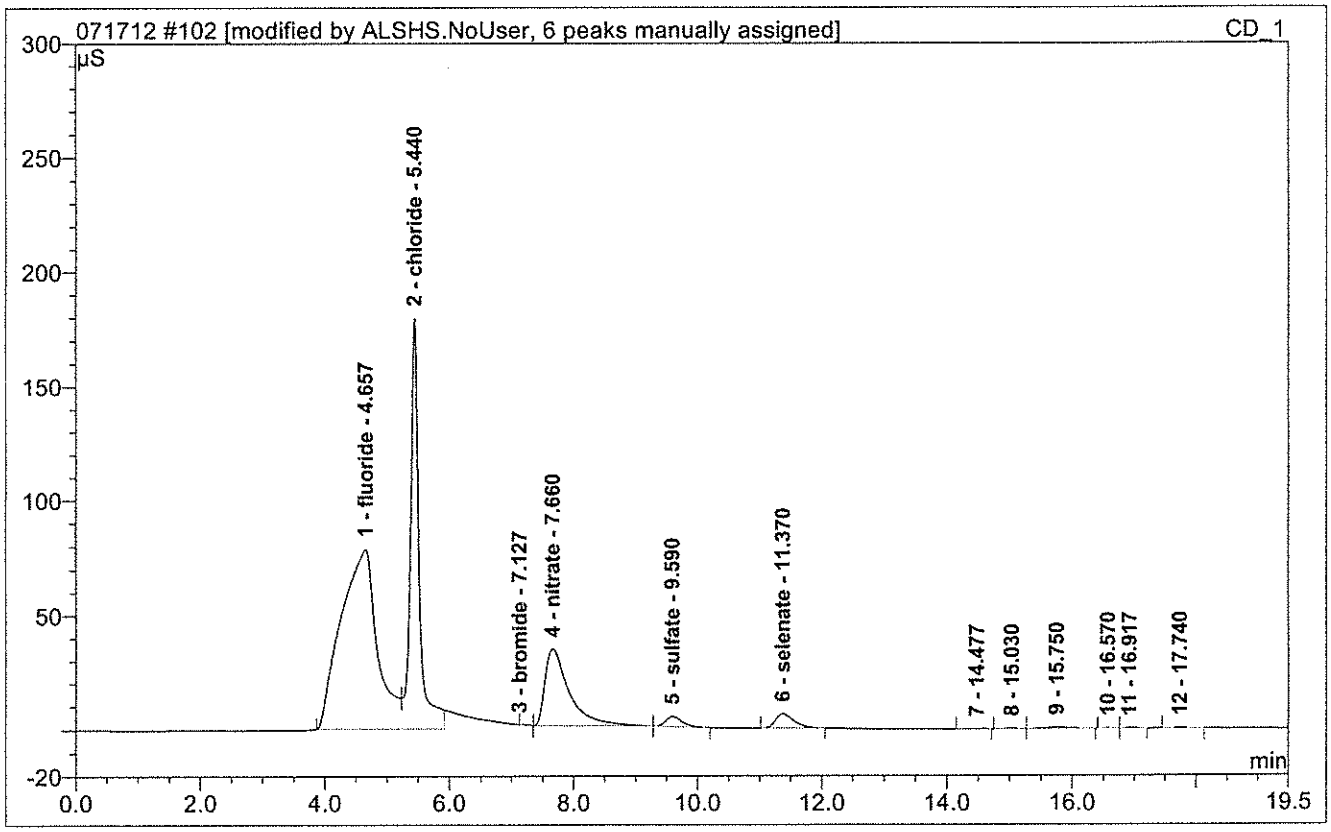


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	17.754	2.404	8.85	3.996	1.
2	5.35	chloride	52.783	7.269	26.75	19.268	1.
3	6.24	nitrite,N	19.637	3.455	12.71	3.993	1.
4	7.26	bromide	3.823	0.664	2.44	4.215	1.
5	8.03	nitrate	19.374	3.903	14.36	3.970	1.
7	9.49	sulfate	19.577	5.773	21.24	19.256	1.
8	11.35	selenate	6.748	2.230	8.21	5.137	1.
9	16.48	phosphate	4.488	1.474	5.42	4.001	1.
Total:			144.183	27.173	99.98	63.836	

102 1207804-04B

NO3

Sample Name:	**1207804-04B**	*Injection Volume:*	**20.0**
Vial Number:	**39**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 8:35**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

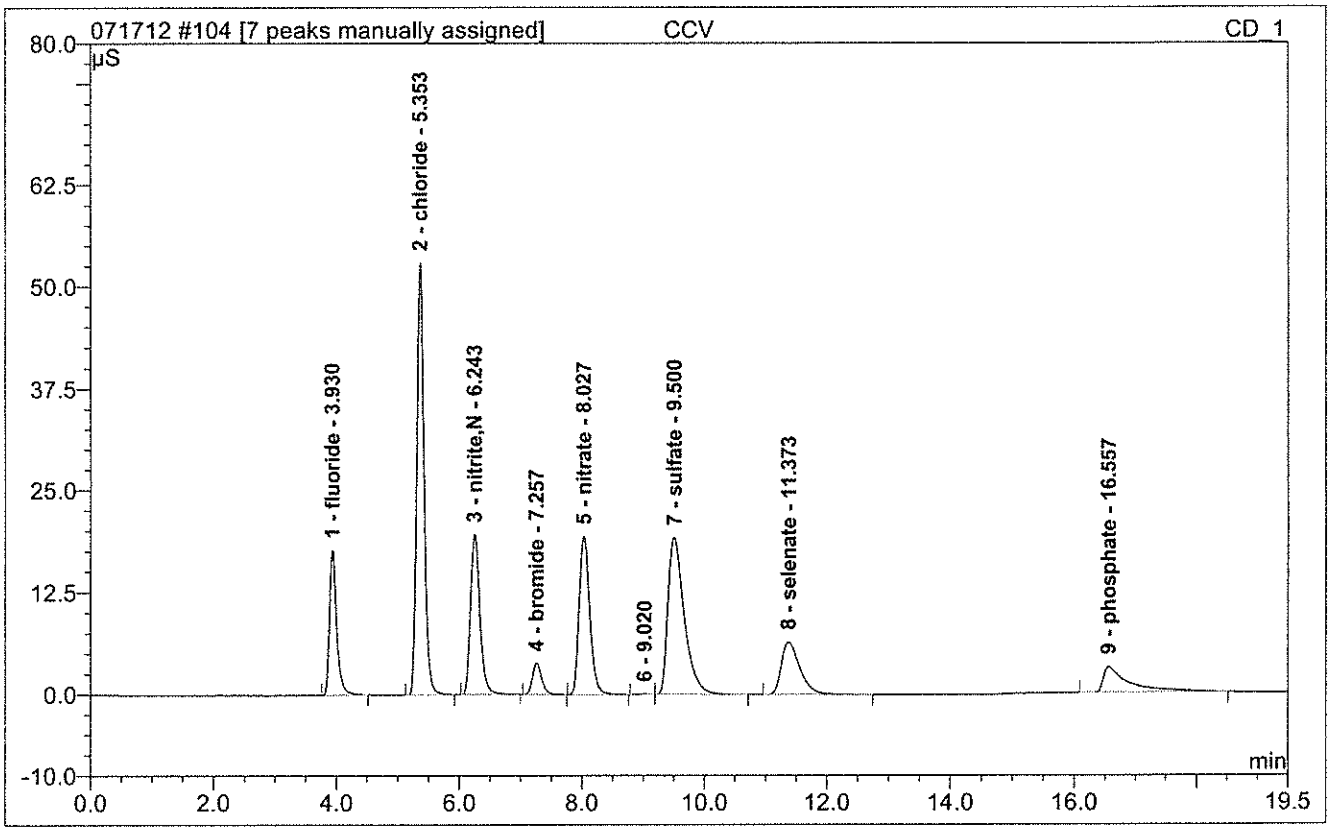


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.66	fluoride	78.352	53.155	52.52	88.342	1.
2	5.44	chloride	179.263	29.224	28.88	77.465	1.
3	7.13	bromide	0.000	0.015	0.02	0.098	1.
4	7.66	nitrate	33.432	15.021	14.84	15.244	1.
5	9.59	sulfate	4.369	1.332	1.32	4.444	1.
6	11.37	selenate	6.128	2.117	2.09	4.881	1.
Total:			301.545	100.866	99.67	190.475	

104 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 9:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

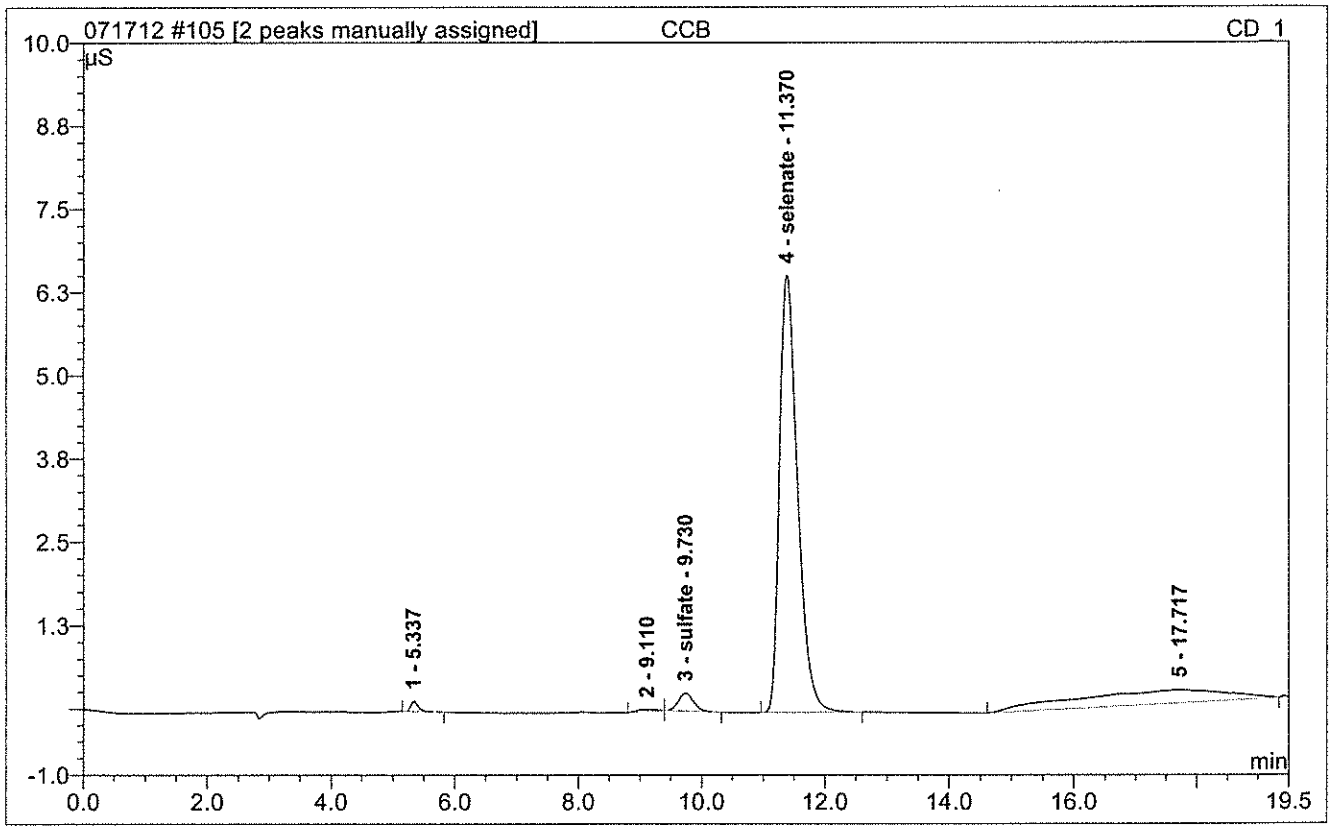


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	17.692	2.404	8.80	3.995	1.
2	5.35	chloride	52.945	7.271	26.63	19.274	1.
3	6.24	nitrite,N	19.601	3.445	12.62	3.981	1.
4	7.26	bromide	3.814	0.662	2.42	4.197	1.
5	8.03	nitrate	19.344	3.893	14.26	3.960	1.
7	9.50	sulfate	19.150	5.882	21.54	19.622	1.
8	11.37	selenate	6.409	2.219	8.13	5.111	1.
9	16.56	phosphate	3.138	1.523	5.58	4.134	1.
Total:			142.093	27.299	99.98	64.275	

105 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 9:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

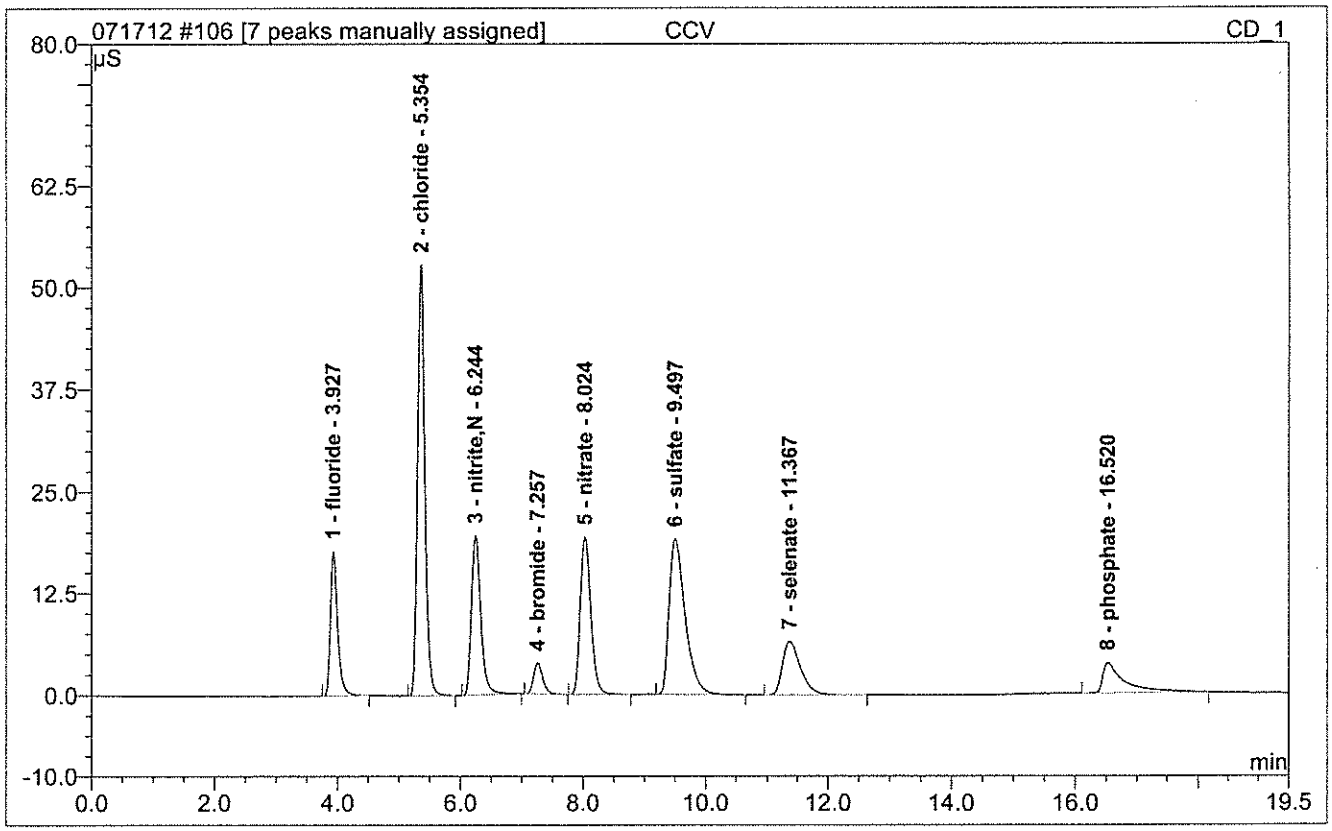


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
3	9.73	sulfate	0.266	0.077	2.63	0.258	1.
4	11.37	selenate	6.561	2.238	76.13	5.156	1.
Total:			6.828	2.316	78.75	5.413	

106 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 9:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

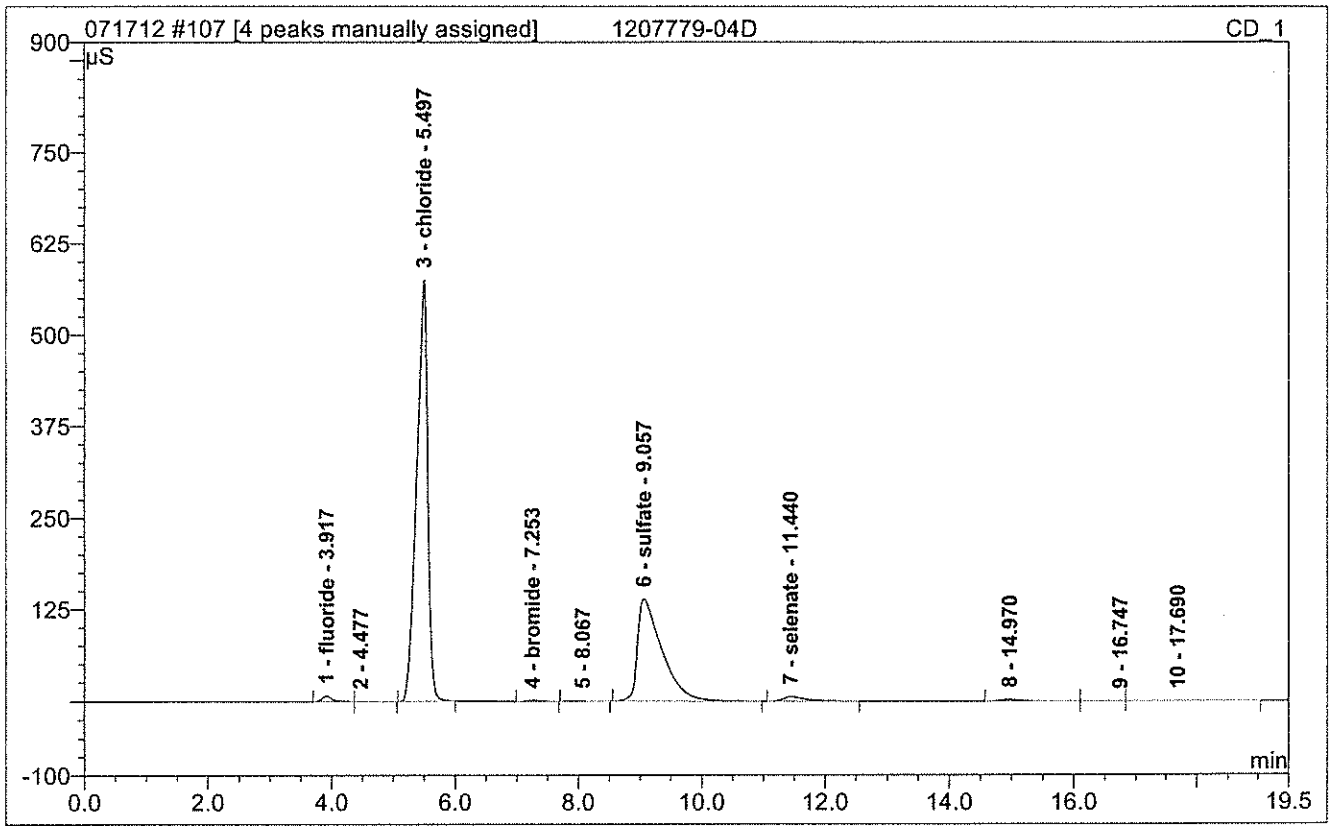


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	17.736	2.402	8.83	3.991	1.
2	5.35	chloride	52.882	7.259	26.70	19.242	1.
3	6.24	nitrite,N	19.626	3.486	12.82	4.028	1.
4	7.26	bromide	3.787	0.658	2.42	4.174	1.
5	8.02	nitrate	19.327	3.891	14.31	3.958	1.
6	9.50	sulfate	19.081	5.779	21.26	19.278	1.
7	11.37	selenate	6.530	2.227	8.19	5.129	1.
8	16.52	phosphate	3.673	1.487	5.47	4.036	1.
Total:			142.642	27.188	100.00	63.836	

107 1207779-04D

NO3

Sample Name:	**1207779-04D**	*Injection Volume:*	**20.0**
Vial Number:	**41**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 10:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

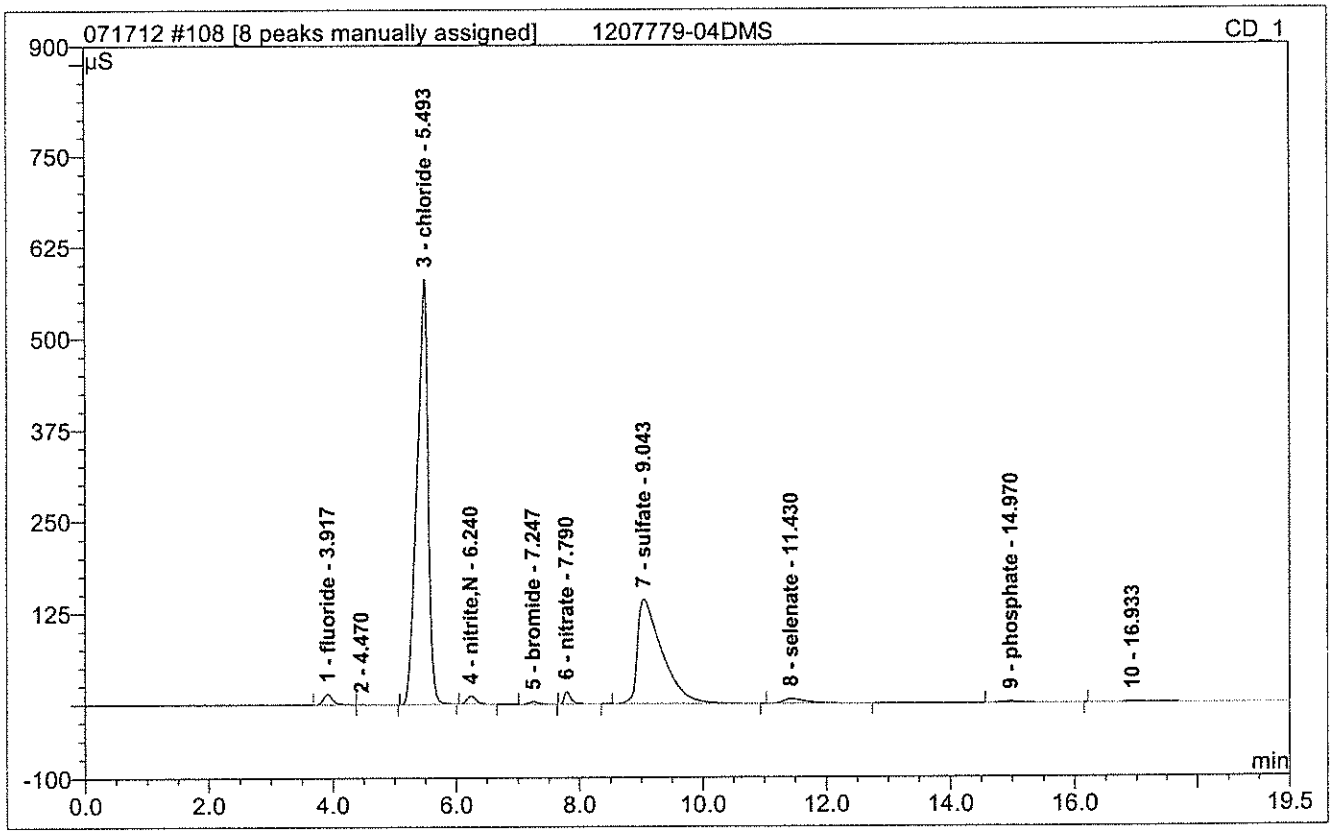


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.92	fluoride	7.523	1.283	0.69	2.133	1.
3	5.50	chloride	575.011	118.640	63.51	314.481	1.
4	7.25	bromide	1.218	0.218	0.12	1.381	1.
6	9.06	sulfate	139.212	63.523	34.01	211.902	1.
7	11.44	selenate	5.846	2.308	1.24	5.313	1.
Total:			728.810	185.972	99.55	535.209	

108 1207779-04DMS

NO3

Sample Name:	**1207779-04DMS**	*Injection Volume:*	**20.0**
Vial Number:	**42**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 10:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

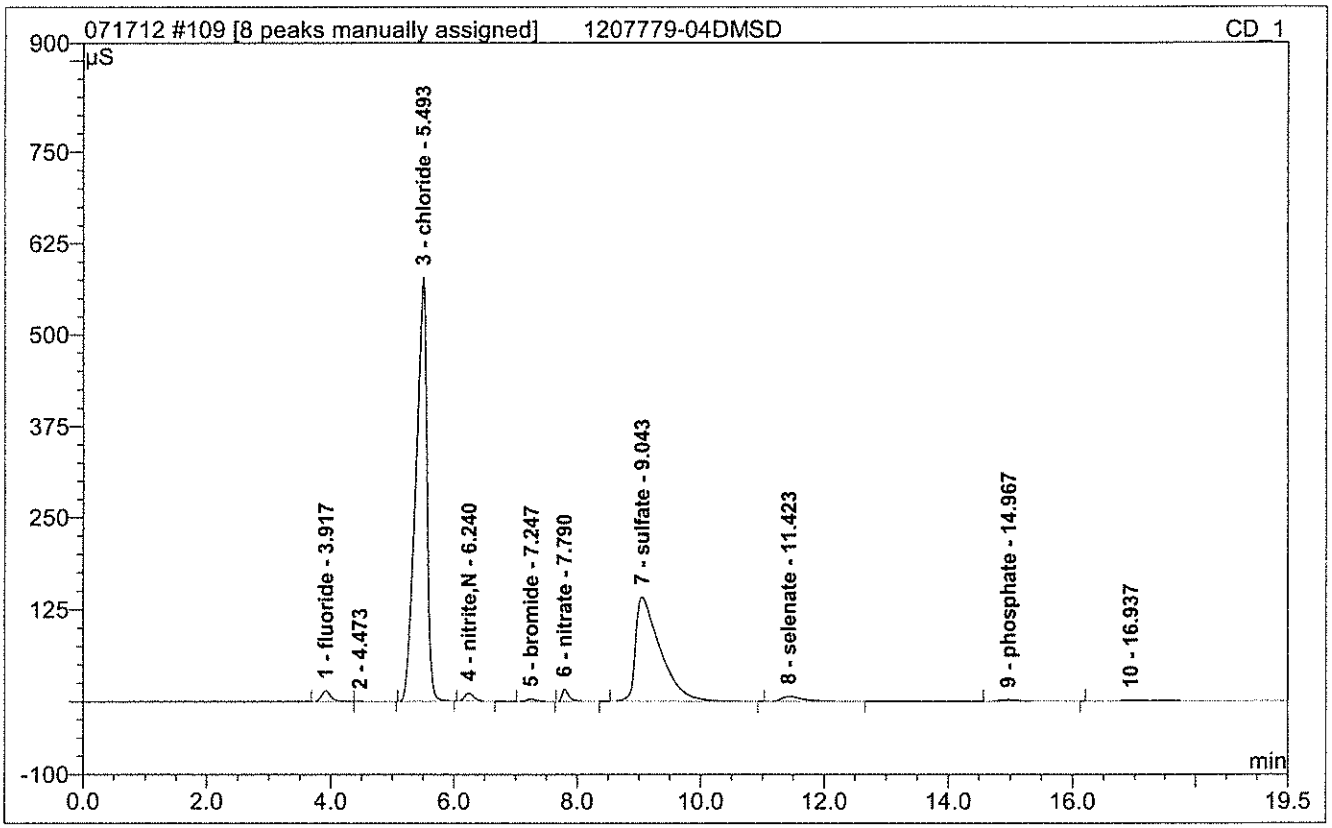


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.92	fluoride	14.621	2.528	1.28	4.201	1.
3	5.49	chloride	580.374	120.460	61.18	319.305	1.
4	6.24	nitrite,N	10.935	1.872	0.95	2.164	1.
5	7.25	bromide	3.285	0.566	0.29	3.591	1.
6	7.79	nitrate	16.880	2.091	1.06	2.133	1.
7	9.04	sulfate	142.216	65.460	33.25	218.364	1.
8	11.43	selenate	6.146	2.439	1.24	5.609	1.
9	14.97	phosphate	1.887	0.606	0.31	1.644	1.
Total:			776.345	196.021	99.55	557.010	

109 1207779-04DMSD

NO3

Sample Name:	**1207779-04DMSD**	*Injection Volume:*	**20.0**
Vial Number:	**43**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 11:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

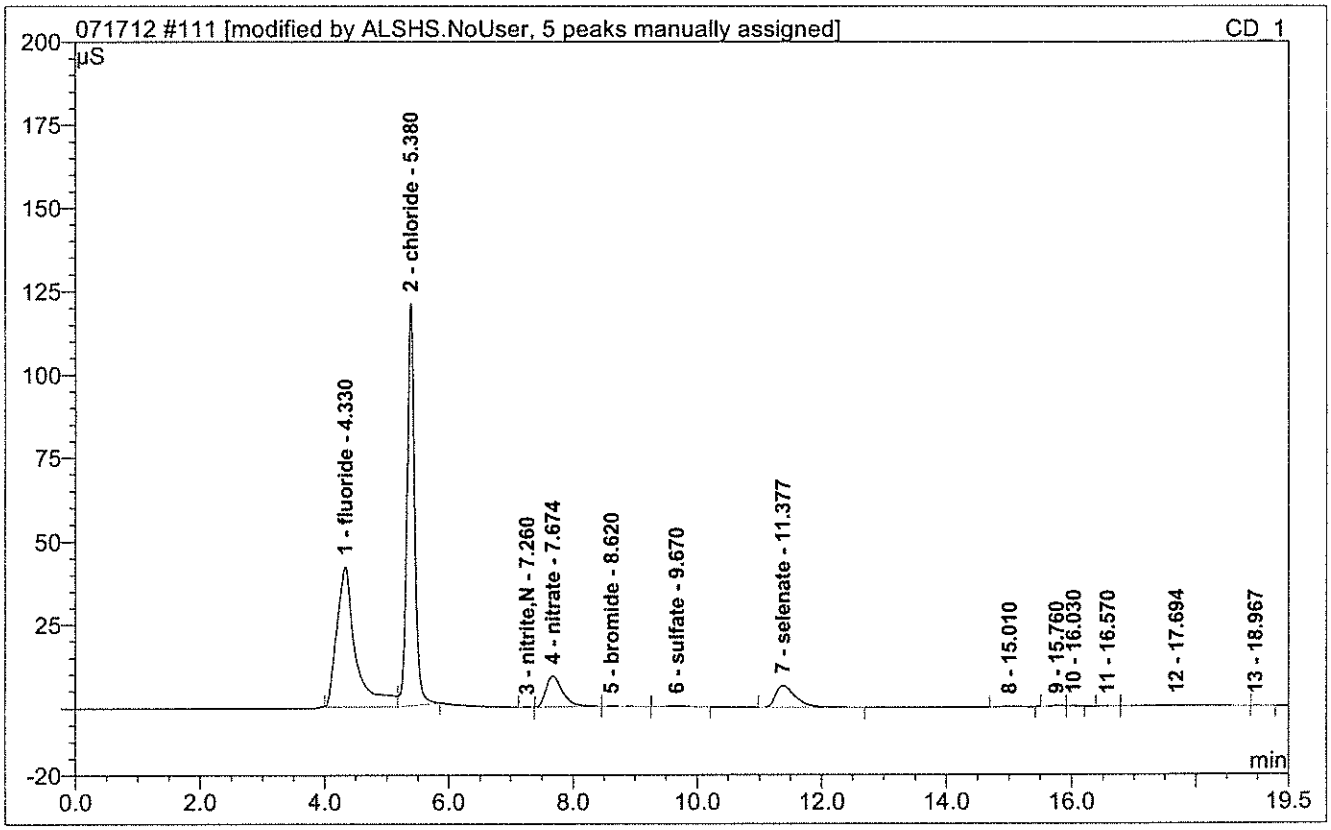


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.92	fluoride	14.558	2.517	1.29	4.183	1.
3	5.49	chloride	578.597	119.611	61.15	317.054	1.
4	6.24	nitrite,N	10.887	1.861	0.95	2.150	1.
5	7.25	bromide	3.266	0.563	0.29	3.569	1.
6	7.79	nitrate	16.741	2.077	1.06	2.119	1.
7	9.04	sulfate	141.759	65.038	33.25	216.957	1.
8	11.42	selenate	6.141	2.423	1.24	5.572	1.
9	14.97	phosphate	1.862	0.593	0.30	1.609	1.
Total:			773.810	194.682	99.53	553.213	

111 1207804-06B

NO3

Sample Name:	**1207804-06B**	*Injection Volume:*	**20.0**
Vial Number:	**45**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 11:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

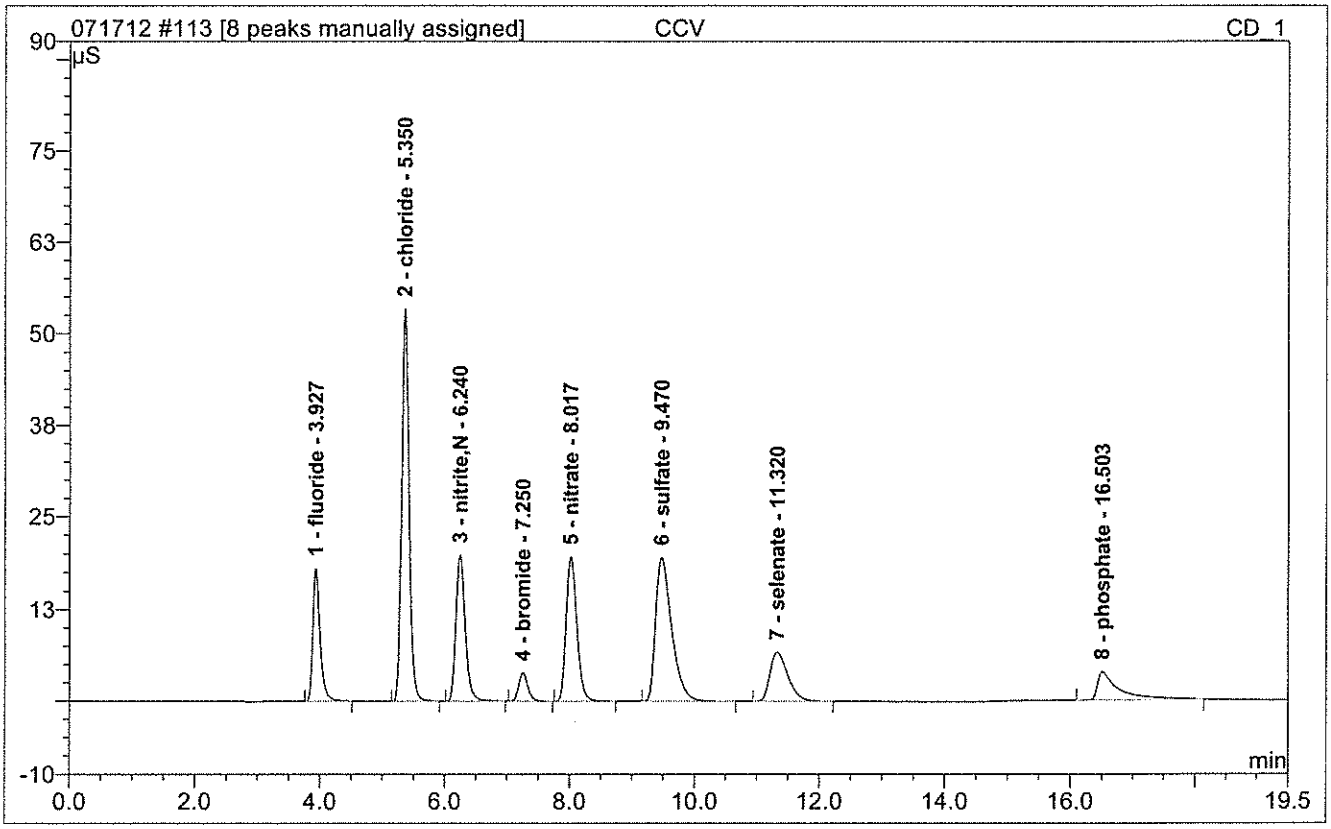


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.33	fluoride	42.062	14.769	39.40	24.545	1.
2	5.38	chloride	120.514	17.015	45.40	45.103	1.
3	7.26	nitrite,N	0.122	0.015	0.04	0.018	1.
4	7.67	nitrate	9.237	2.856	7.62	2.909	1.
5	8.62	bromide	0.084	0.034	0.09	0.215	1.
6	9.67	sulfate	0.213	0.081	0.22	0.270	1.
7	11.38	selenate	6.436	2.344	6.25	5.394	1.
Total:			178.668	37.114	99.02	78.454	

113 CCV

NO3

Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 12:27**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

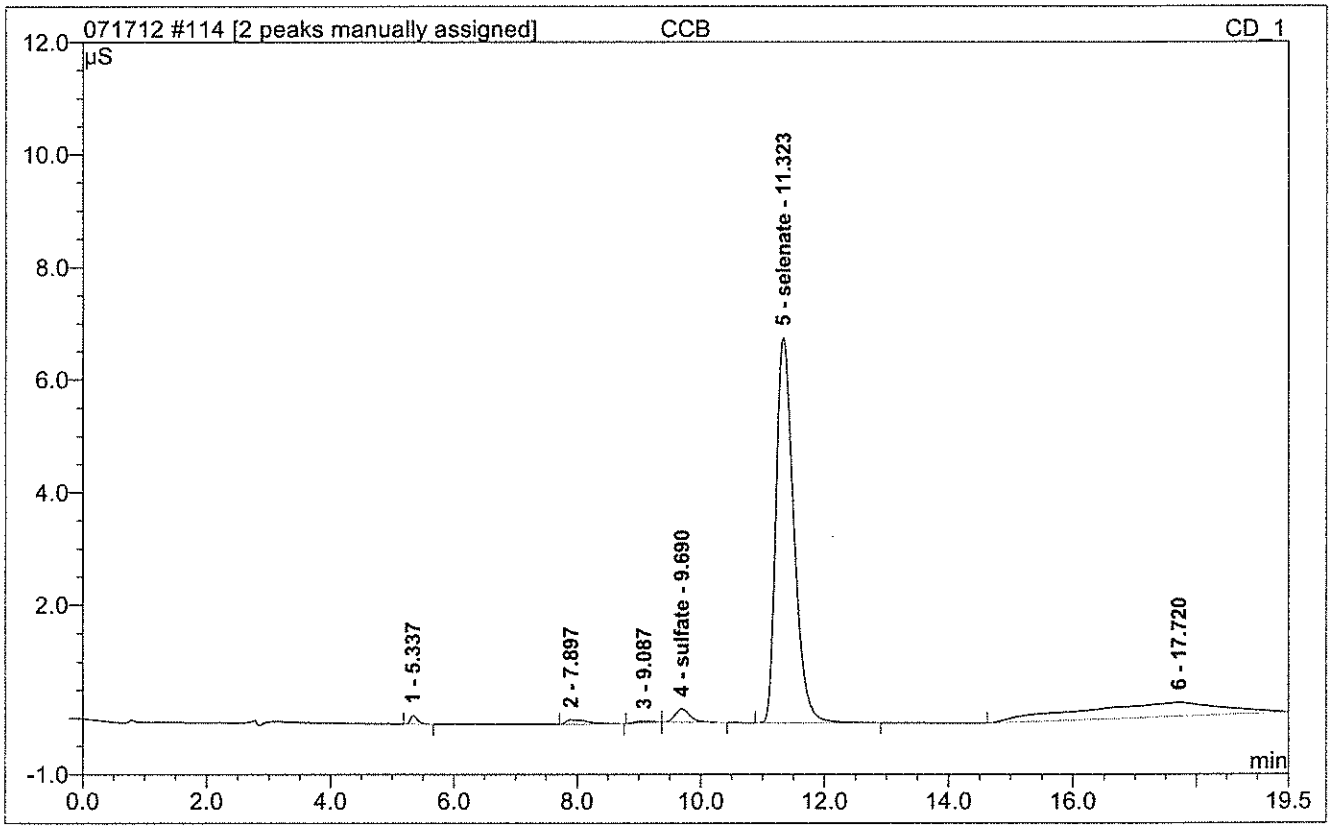


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	3.93	fluoride	18.053	2.421	8.83	4.023	1.
2	5.35	chloride	53.491	7.323	26.71	19.411	1.
3	6.24	nitrite,N	19.889	3.477	12.68	4.018	1.
4	7.25	bromide	3.863	0.669	2.44	4.243	1.
5	8.02	nitrate	19.640	3.933	14.34	4.000	1.
6	9.47	sulfate	19.508	5.826	21.25	19.435	1.
7	11.32	selenate	6.724	2.237	8.16	5.153	1.
8	16.50	phosphate	3.869	1.532	5.59	4.160	1.
Total:			145.038	27.418	100.00	64.443	

114 CCB

NO3

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**061912**	*Dilution Factor:*	**1.**
Recording Time:	**7/19/2012 12:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
4	9.69	sulfate	0.238	0.066	2.14	0.220	1.
5	11.32	selenate	6.826	2.279	73.82	5.246	1.
Total:			7.064	2.345	75.96	5.466	

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

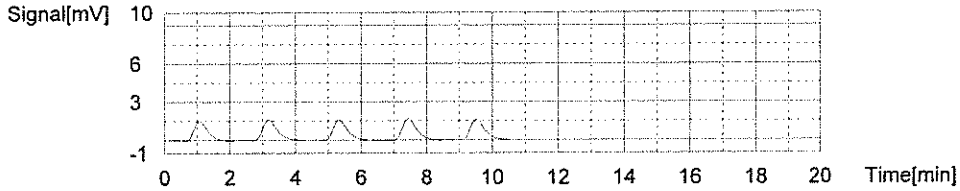
Sample Name:	CALIBRATION
Sample ID:	Untitled
Cal. Curve:	ASI-V 032312CAL.2012_03_23_19_24_40.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.05000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.614	50uL	1	*******	E	3/23/2012 7:32:38 PM
2	5.001	50uL	1	*******		3/23/2012 7:35:04 PM
3	4.879	50uL	1	*******		3/23/2012 7:37:22 PM
4	5.196	50uL	1	*******		3/23/2012 7:39:37 PM
5	4.862	50uL	1	*******		3/23/2012 7:41:54 PM

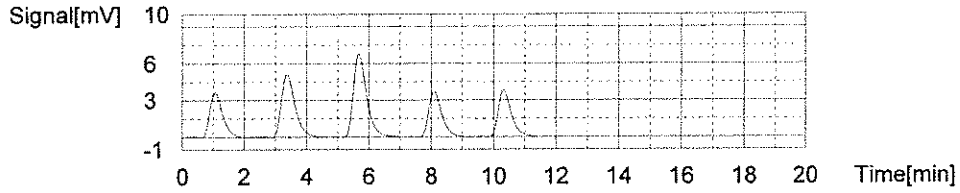
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	4.985



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.86	50uL	1	*******		3/23/2012 7:50:03 PM
2	15.66	50uL	1	*******		3/23/2012 7:52:32 PM
3	20.26	50uL	1	*******	E	3/23/2012 7:55:09 PM
4	11.08	50uL	1	*******		3/23/2012 7:57:34 PM
5	11.33	50uL	1	*******		3/23/2012 7:59:57 PM

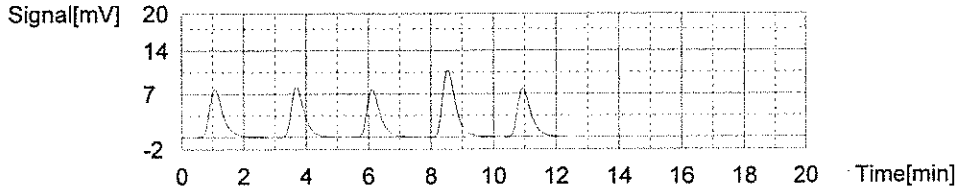
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	12.23



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	23.75	50uL	1	*******		3/23/2012 8:08:28 PM
2	24.05	50uL	1	*******		3/23/2012 8:11:04 PM
3	23.01	50uL	1	*******		3/23/2012 8:13:40 PM
4	31.86	50uL	1	*******	E	3/23/2012 8:16:15 PM
5	23.74	50uL	1	*******		3/23/2012 8:18:48 PM

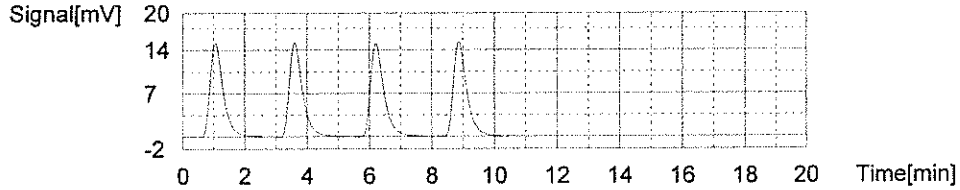
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 23.64



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	44.96	50uL	1	*******		3/23/2012 8:27:13 PM
2	45.40	50uL	1	*******		3/23/2012 8:30:00 PM
3	45.52	50uL	1	*******		3/23/2012 8:32:50 PM
4	46.15	50uL	1	*******		3/23/2012 8:35:43 PM

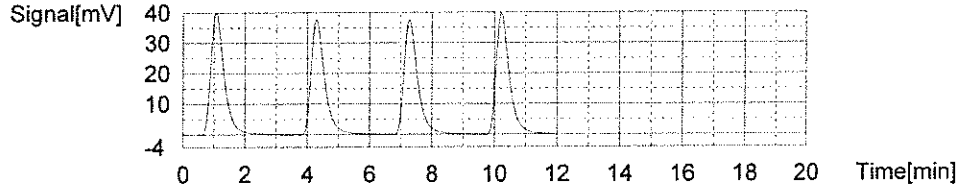
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 45.51



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	120.5	50uL	1	*******		3/23/2012 8:44:54 PM
2	115.7	50uL	1	*******		3/23/2012 8:48:04 PM
3	116.3	50uL	1	*******		3/23/2012 8:51:12 PM
4	118.8	50uL	1	*******		3/23/2012 8:54:17 PM

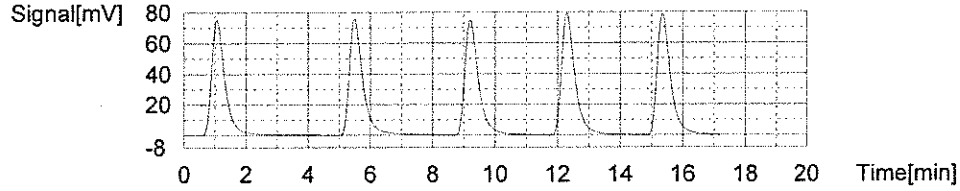
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 117.8



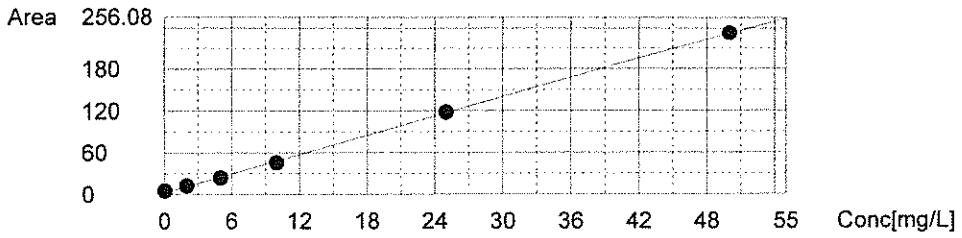
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	228.9	50uL	1	*******		3/23/2012 9:04:40 PM
2	233.2	50uL	1	*******		3/23/2012 9:08:34 PM
3	230.8	50uL	1	*******		3/23/2012 9:11:50 PM
4	240.8	50uL	1	*******	E	3/23/2012 9:15:04 PM
5	238.3	50uL	1	*******		3/23/2012 9:18:16 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 232.8



Slope:	4.604
Intercept	2.199
r^2	0.9995
r	0.9998
Zero Shift	No



	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1*	Unknown	NPOC	CALIBRATION	Untitled	ASI-V 032312		
2	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.600mg/L	
3	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.4103mg/L	
4	Unknown	NPOC	WBLKW1	Untitled	032312.met	NPOC:-0.4310mg/L	
5	Unknown	NPOC	WLCSW1	Untitled	032312.met	NPOC:9.090mg/L	
6	Unknown	NPOC	1207804-01D	Untitled	032312.met	NPOC:0.7078mg/L	
7	Unknown	NPOC	1207804-01DMS	Untitled	032312.met	NPOC:10.77mg/L	
8	Unknown	NPOC	1207804-01DMSD	Untitled	032312.met	NPOC:10.74mg/L	
9	Unknown	NPOC	1207804-02D	Untitled	032312.met	NPOC:1.109mg/L	
10	Unknown	NPOC	1207804-03D	Untitled	032312.met	NPOC:0.7596mg/L	
11	Unknown	NPOC	1207804-04D	Untitled	032312.met	NPOC:1102mg/L	
12	Unknown	NPOC	1207804-05D	Untitled	032312.met	NPOC:37.48mg/L	
13	Unknown	NPOC	1207804-06D	Untitled	032312.met	NPOC:239.8mg/L	
14	Unknown	NPOC	1207794-07A	Untitled	032312.met	NPOC:4.235mg/L	
15	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.894mg/L	
16	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.3051mg/L	
17	Unknown	NPOC	1207794-13B	Untitled	032312.met	NPOC:1.852mg/L	
18	Unknown	NPOC	1207800-01C	Untitled	032312.met	NPOC:5.157mg/L	
19	Unknown	NPOC	1207828-01B	Untitled	032312.met	NPOC:9.627mg/L	
20	Unknown	NPOC	12071074-01DDF2	Untitled	032312.met	NPOC:1.935mg/L	
21	Unknown	NPOC	1207668-01N	Untitled	032312.met	NPOC:10.32mg/L	
22	Unknown	NPOC	1207670-02D	Untitled	032312.met	NPOC:0.8936mg/L	
23	Unknown	NPOC	1207670-03D	Untitled	032312.met	NPOC:3.260mg/L	
24	Unknown	NPOC	1207670-04D	Untitled	032312.met	NPOC:6.805mg/L	
25	Unknown	NPOC	1207670-05D	Untitled	032312.met	NPOC:1.196mg/L	
26	Unknown	NPOC	1207670-10D	Untitled	032312.met	NPOC:1.486mg/L	
27	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.78mg/L	
28	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.2569mg/L	
29	Unknown	NPOC	WBLKW2	Untitled	032312.met	NPOC:-0.3720mg/L	
30	Unknown	NPOC	WLCSW2	Untitled	032312.met	NPOC:9.855mg/L	
31	Unknown	NPOC	1207760-01A	Untitled	032312.met	NPOC:3.835mg/L	
32	Unknown	NPOC	1207804-01C	Untitled	032312.met	NPOC:1.632mg/L	
33	Unknown	NPOC	1207804-01CMS	Untitled	032312.met	NPOC:11.45mg/L	
34	Unknown	NPOC	1207804-01CMSD	Untitled	032312.met	NPOC:11.40mg/L	
35	Unknown	NPOC	1207804-02C	Untitled	032312.met	NPOC:0.4607mg/L	
36	Unknown	NPOC	1207804-03C	Untitled	032312.met	NPOC:0.5192mg/L	
37	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.17mg/L	
38	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.07946mg/L	
39	Unknown	NPOC	1207804-04C	Untitled	032312.met	NPOC:1175mg/L	
40	Unknown	NPOC	1207804-05C	Untitled	032312.met	NPOC:40.45mg/L	
41	Unknown	NPOC	1207804-06C	Untitled	032312.met	NPOC:258.0mg/L	
42	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.59mg/L	
43	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.2351mg/L	
44	Unknown	NPOC	1207804-04DDF100	Untitled	032312.met	NPOC:16.58mg/L	
45	Unknown	NPOC	1207804-06DDF10	Untitled	032312.met	NPOC:23.01mg/L	
46	Unknown	NPOC	1207804-04CDF100	Untitled	032312.met	NPOC:16.68mg/L	
47	Unknown	NPOC	1207804-06CDF10	Untitled	032312.met	NPOC:23.26mg/L	
48	Unknown	NPOC	1207804-02D	Untitled	032312.met	NPOC:0.8515mg/L	
49	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.916mg/L	
50	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:-0.3873mg/L	

	Status	Date / Time	Vial
1*	Defined		12
2	Completed	7/25/2012 2:09:51 AM	1
3	Completed	7/25/2012 2:23:55 AM	2
4	Completed	7/25/2012 2:38:14 AM	3
5	Completed	7/25/2012 2:55:34 AM	4
6	Completed	7/25/2012 3:09:45 AM	5
7	Completed	7/25/2012 3:25:57 AM	6
8	Completed	7/25/2012 3:42:20 AM	7
9	Completed	7/25/2012 3:56:35 AM	8
10	Completed	7/25/2012 4:10:47 AM	9
11	Completed	7/25/2012 4:31:54 AM	10
12	Completed	7/25/2012 4:50:08 AM	11
13	Completed	7/25/2012 5:05:19 AM	12
14	Completed	7/25/2012 5:20:47 AM	13
15	Completed	7/25/2012 5:37:28 AM	14
16	Completed	7/25/2012 5:51:32 AM	15
17	Completed	7/25/2012 6:06:44 AM	16
18	Completed	7/25/2012 6:22:05 AM	17
19	Completed	7/25/2012 6:35:55 AM	18
20	Completed	7/25/2012 6:50:55 AM	19
21	Completed	7/25/2012 7:04:35 AM	20
22	Completed	7/25/2012 7:19:03 AM	21
23	Completed	7/25/2012 7:34:03 AM	22
24	Completed	7/25/2012 7:49:55 AM	23
25	Completed	7/25/2012 8:04:20 AM	24
26	Completed	7/25/2012 8:18:55 AM	25
27	Completed	7/25/2012 8:35:13 AM	26
28	Completed	7/25/2012 8:49:55 AM	27
29	Completed	7/25/2012 9:04:15 AM	28
30	Completed	7/25/2012 9:17:38 AM	29
31	Completed	7/25/2012 9:30:23 AM	30
32	Completed	7/25/2012 9:44:53 AM	31
33	Completed	7/25/2012 10:00:57 AM	32
34	Completed	7/25/2012 10:16:56 AM	33
35	Completed	7/25/2012 10:31:04 AM	34
36	Completed	7/25/2012 10:45:07 AM	35
37	Completed	7/25/2012 11:00:58 AM	36
38	Completed	7/25/2012 11:15:00 AM	37
39	Completed	7/25/2012 11:36:00 AM	38
40	Completed	7/25/2012 11:53:37 AM	39
41	Completed	7/25/2012 12:09:00 PM	40
42	Completed	7/25/2012 12:25:34 PM	41
43	Completed	7/25/2012 12:39:36 PM	42
44	Completed	7/25/2012 2:37:42 PM	43
45	Completed	7/25/2012 2:51:15 PM	44
46	Completed	7/25/2012 3:04:55 PM	45
47	Completed	7/25/2012 3:18:31 PM	46
48	Completed	7/25/2012 3:45:51 PM	8
49	Completed	7/25/2012 4:01:52 PM	47
50	Completed	7/25/2012 4:15:55 PM	48

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	CALIBRATION
Sample ID:	Untitled
Origin:	ASI-V 032312CAL.cal
Status	Defined
Chk. Result	

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.000mg/L

1. Det

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

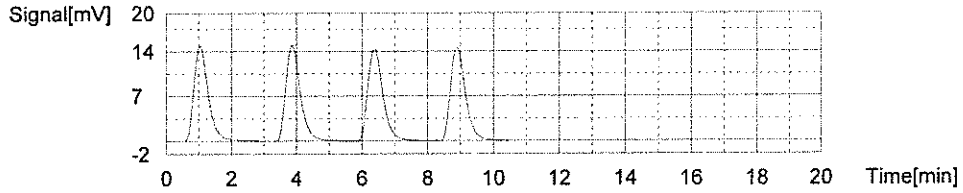
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.600mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45.28	9.357mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:01:42 AM
2	46.63	9.651mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:04:23 AM
3	46.69	9.664mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:07:06 AM
4	46.98	9.727mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:09:51 AM

Mean Area	46.39
Mean Conc.	9.600mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

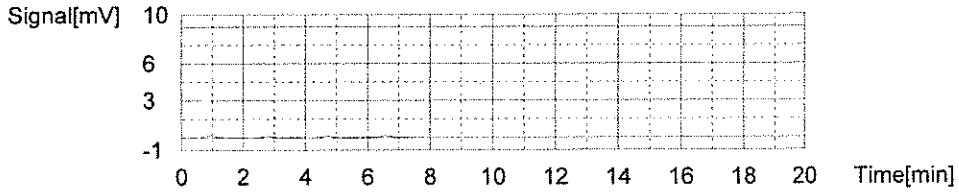
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4103mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4479	-0.3805mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:17:40 AM
2	0.2995	-0.4127mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:19:45 AM
3	0.2541	-0.4226mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:21:50 AM
4	0.2402	-0.4256mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:23:55 AM

Mean Area 0.3104
Mean Conc. -0.4103mg/L



Sample

Sample Name: WBLKW1
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

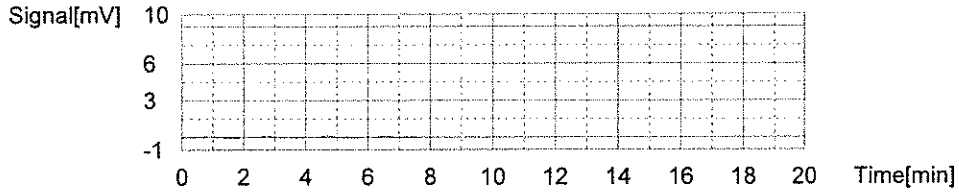
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4310mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.2275	-0.4283mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:31:59 AM
2	0.1946	-0.4355mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:34:04 AM
3	0.2208	-0.4298mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:36:09 AM
4	0.2171	-0.4306mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:38:14 AM

Mean Area 0.2150
Mean Conc. -0.4310mg/L



Sample

Sample Name: WLCSW1
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

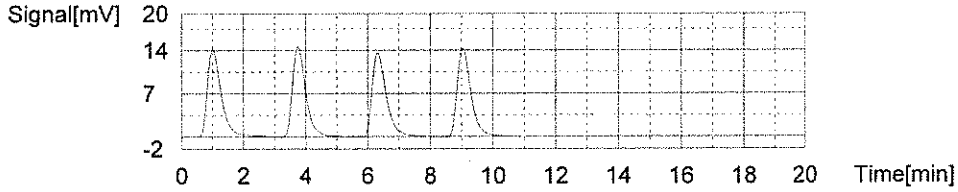
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.090mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	44.11	9.103mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:47:08 AM
2	44.07	9.095mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:49:53 AM
3	43.62	8.997mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:52:47 AM
4	44.39	9.164mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:55:34 AM

Mean Area 44.05
Mean Conc. 9.090mg/L



Sample

Sample Name: 1207804-01D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

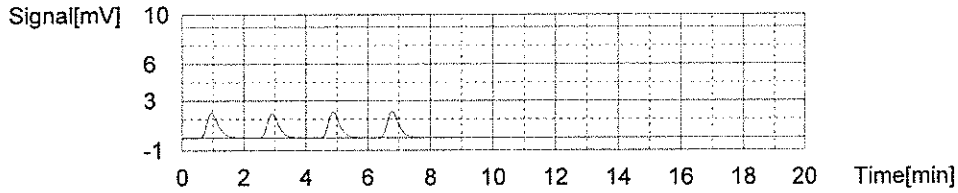
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7078mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.426	0.7008mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:03:26 AM
2	5.238	0.6600mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:05:35 AM
3	5.433	0.7023mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:07:40 AM
4	5.515	0.7201mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:09:45 AM

Mean Area 5.458
Mean Conc. 0.7078mg/L



Sample

Sample Name: 1207804-01DMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

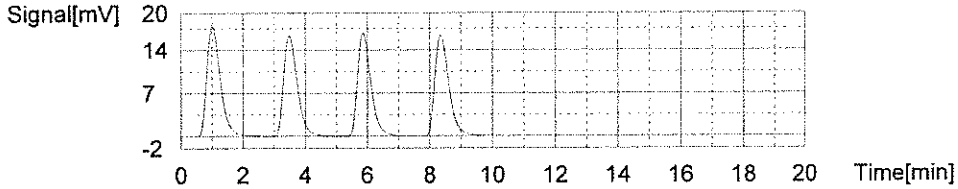
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.77mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.44	11.35mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:18:05 AM
2	50.44	10.48mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:20:39 AM
3	50.76	10.55mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:23:19 AM
4	51.52	10.71mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:25:57 AM

Mean Area 51.79
Mean Conc. 10.77mg/L



Sample

Sample Name: 1207804-01DMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

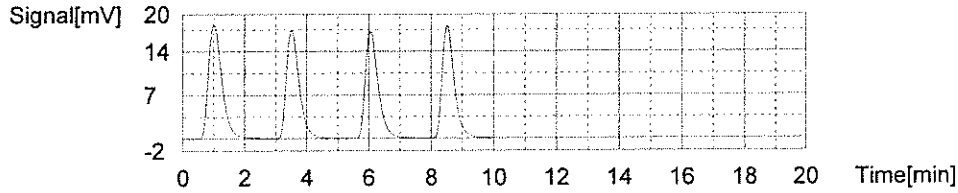
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.74mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.01	11.69mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:34:17 AM
2	50.97	10.59mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:37:01 AM
3	49.90	10.36mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:39:40 AM
4	49.70	10.32mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:42:20 AM

Mean Area 51.65
Mean Conc. 10.74mg/L



Sample

Sample Name: 1207804-02D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

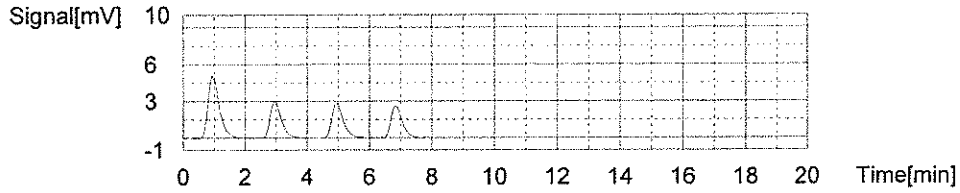
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.109mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.15	2.379mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:50:15 AM
2	7.783	1.213mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:52:25 AM
3	7.325	1.113mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:54:30 AM
4	6.802	0.9997mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:56:35 AM

Mean Area 7.303
Mean Conc. 1.109mg/L



Sample

Sample Name: 1207804-03D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

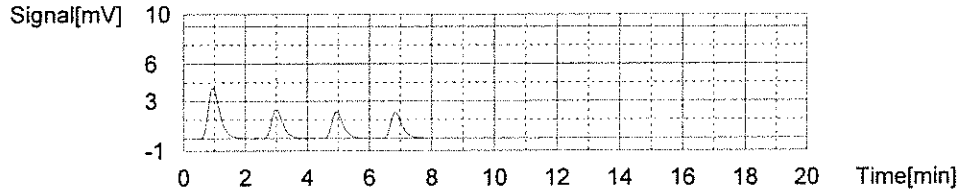
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7596mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.80	1.868mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:04:29 AM
2	6.106	0.8485mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:06:37 AM
3	5.571	0.7323mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:08:42 AM
4	5.413	0.6980mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:10:47 AM

Mean Area 5.697
Mean Conc. 0.7596mg/L



Sample

Sample Name: 1207804-04D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

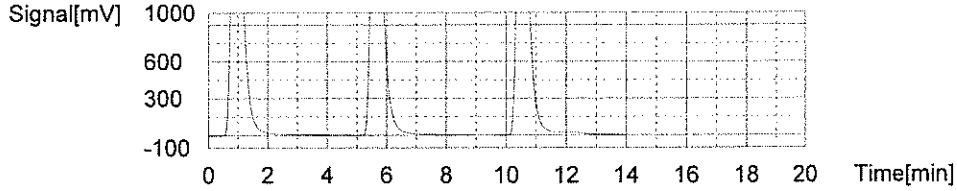
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1102mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4999	1085mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:21:20 AM
2	5114	1110mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:26:29 AM
3	5113	1110mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:31:54 AM

Mean Area 5075
Mean Conc. 1102mg/L



Sample

Sample Name: 1207804-05D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

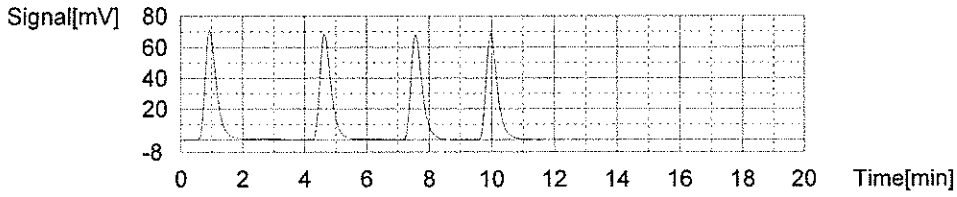
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:37.48mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	187.7	40.29mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:41:33 AM
2	175.5	37.64mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:44:40 AM
3	174.1	37.34mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:47:15 AM
4	174.6	37.45mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:50:08 AM

Mean Area 174.7
Mean Conc. 37.48mg/L



Sample

Sample Name: 1207804-06D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

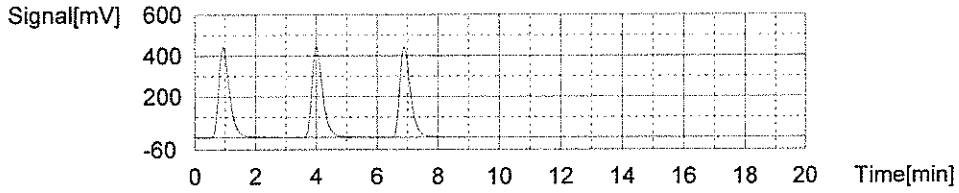
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:239.8mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1116	241.9mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:59:04 AM
2	1099	238.2mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:02:10 AM
3	1104	239.3mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:05:19 AM

Mean Area 1106
Mean Conc. 239.8mg/L



Sample

Sample Name: 1207794-07A
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

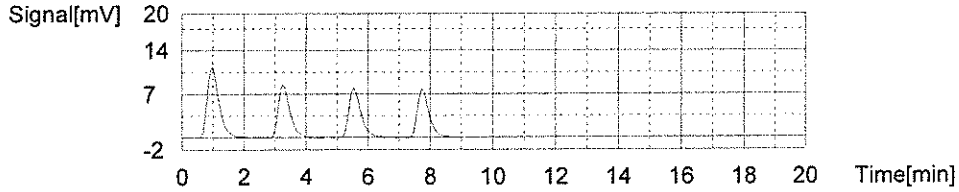
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.235mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.49	6.145mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:13:33 AM
2	22.70	4.453mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:16:01 AM
3	21.57	4.207mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:18:24 AM
4	20.82	4.044mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:20:47 AM

Mean Area 21.70
Mean Conc. 4.235mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

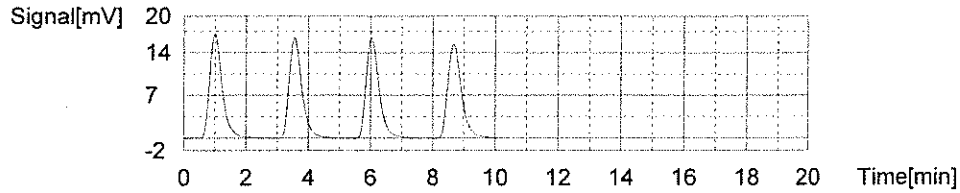
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.894mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.05	9.959mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:29:12 AM
2	47.04	9.740mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:31:51 AM
3	48.30	10.01mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:34:39 AM
4	47.61	9.863mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:37:28 AM

Mean Area 47.75
Mean Conc. 9.894mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

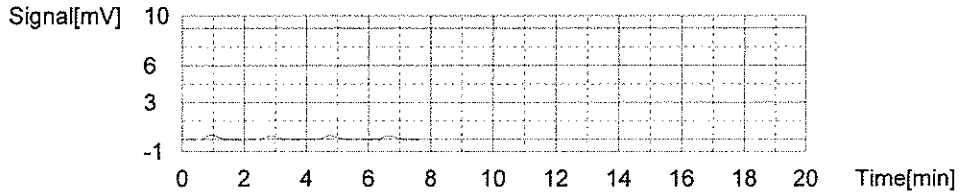
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3051mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.9202	-0.2779mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:45:17 AM
2	0.6987	-0.3260mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:47:22 AM
3	0.8212	-0.2994mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:49:27 AM
4	0.7399	-0.3170mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:51:32 AM

Mean Area 0.7950
Mean Conc. -0.3051mg/L



Sample

Sample Name: 1207794-13B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

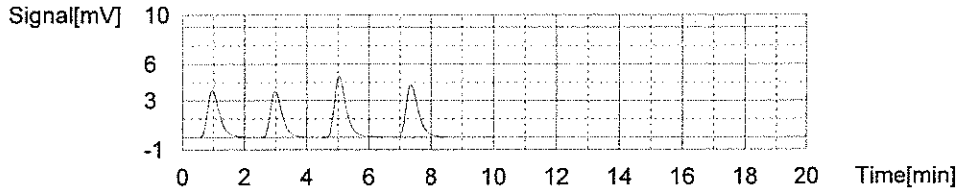
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.852mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.34	1.768mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 5:59:43 AM
2	10.03	1.701mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:01:58 AM
3	13.29	2.409mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:04:27 AM
4	11.81	2.087mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:06:44 AM

Mean Area 10.73
Mean Conc. 1.852mg/L



Sample

Sample Name: 1207800-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

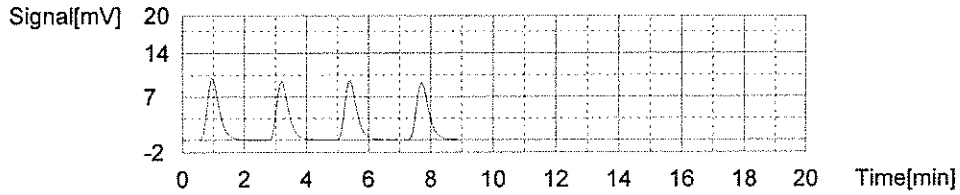
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.157mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	26.76	5.335mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:14:49 AM
2	25.71	5.107mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:17:12 AM
3	26.08	5.187mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:19:41 AM
4	26.03	5.176mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:22:05 AM

Mean Area 25.94
Mean Conc. 5.157mg/L



Sample

Sample Name: 1207828-01B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

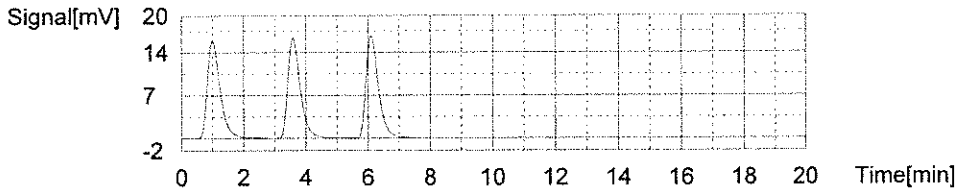
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.627mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.46	9.614mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:30:32 AM
2	46.00	9.514mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:33:14 AM
3	47.11	9.755mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:35:55 AM

Mean Area 46.52
Mean Conc. 9.627mg/L



Sample

Sample Name: 12071074-01DDF2
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

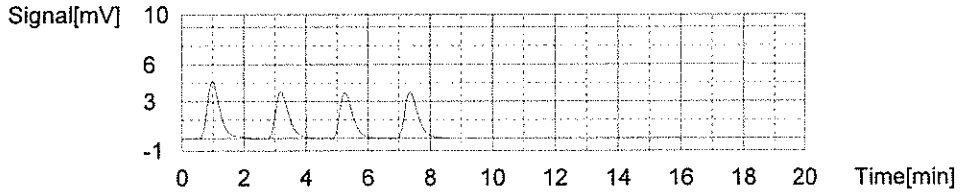
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.935mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.11	2.370mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:44:04 AM
2	11.17	1.948mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:46:19 AM
3	11.00	1.912mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:48:36 AM
4	11.15	1.944mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:50:55 AM

Mean Area 11.11
Mean Conc. 1.935mg/L



Sample

Sample Name: 1207668-01N
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

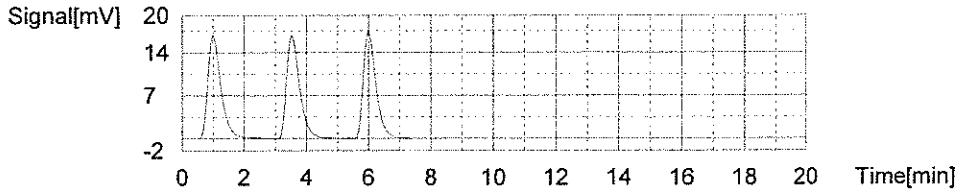
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.64	10.30mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 6:59:19 AM
2	49.67	10.31mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:01:58 AM
3	49.79	10.34mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:04:35 AM

Mean Area 49.70
Mean Conc. 10.32mg/L



Sample

Sample Name: 1207670-02D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

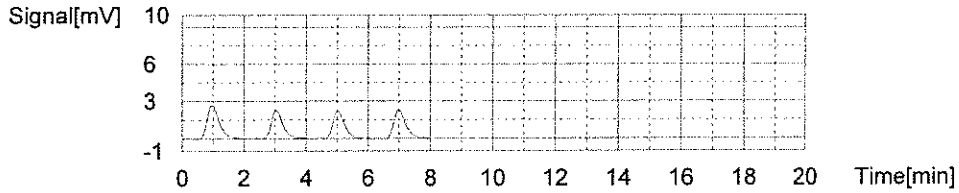
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8936mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.432	1.137mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:12:36 AM
2	5.874	0.7981mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:14:46 AM
3	5.880	0.7994mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:16:55 AM
4	6.068	0.8403mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:19:03 AM

Mean Area 6.314
Mean Conc. 0.8936mg/L



Sample

Sample Name: 1207670-03D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

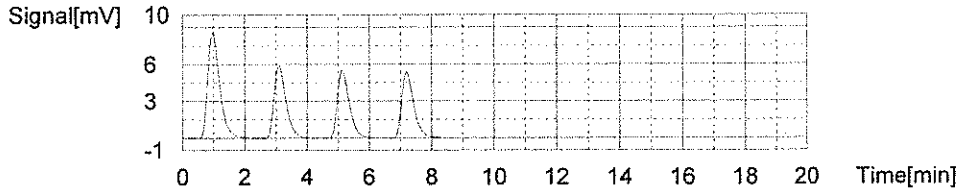
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.260mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	23.16	4.553mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:27:20 AM
2	15.98	2.993mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:29:33 AM
3	14.98	2.776mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:31:48 AM
4	14.71	2.717mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:34:03 AM

Mean Area 17.21
Mean Conc. 3.260mg/L



Sample

Sample Name: 1207670-04D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

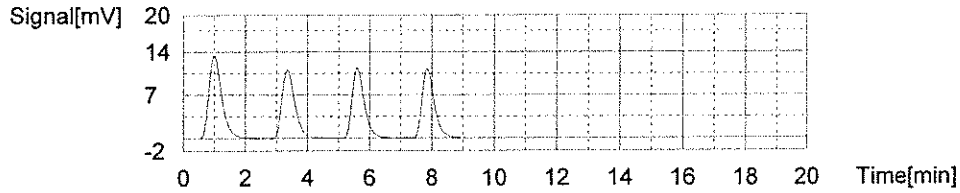
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.805mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.66	7.919mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:42:33 AM
2	32.56	6.595mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:45:00 AM
3	31.38	6.338mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:47:26 AM
4	31.51	6.366mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:49:55 AM

Mean Area 33.53
Mean Conc. 6.805mg/L



Sample

Sample Name: 1207670-05D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

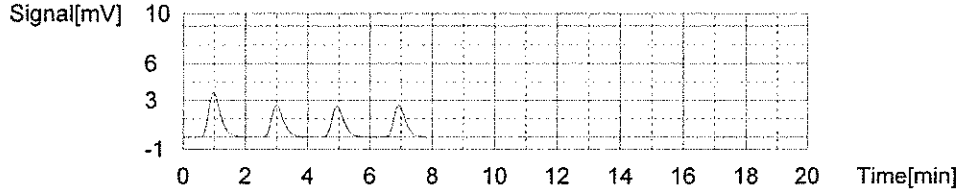
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.196mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.877	1.668mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 7:57:54 AM
2	7.084	1.061mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:00:01 AM
3	6.905	1.022mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:02:12 AM
4	6.956	1.033mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:04:20 AM

Mean Area 7.706
Mean Conc. 1.196mg/L



Sample

Sample Name: 1207670-10D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

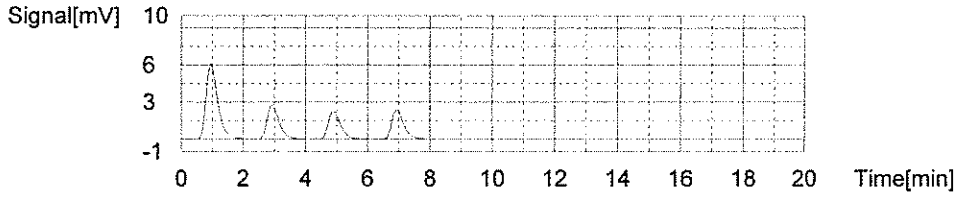
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.486mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.93	2.982mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:12:27 AM
2	7.528	1.157mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:14:36 AM
3	6.308	0.8924mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:16:50 AM
4	6.404	0.9132mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:18:55 AM

Mean Area 9.043
Mean Conc. 1.486mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

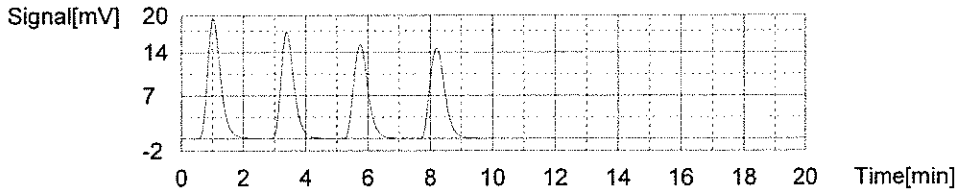
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.78mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	57.20	11.95mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:27:26 AM
2	50.45	10.48mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:29:56 AM
3	49.80	10.34mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:32:34 AM
4	49.87	10.35mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:35:13 AM

Mean Area 51.83
Mean Conc. 10.78mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

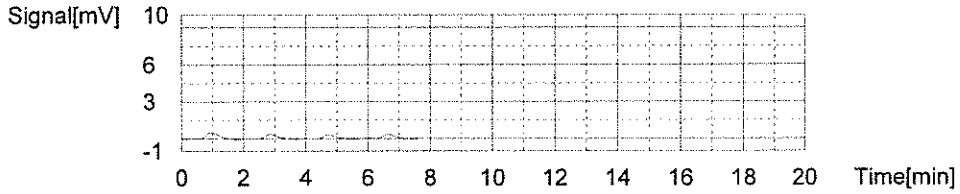
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.2569mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.480	-0.1563mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:43:40 AM
2	0.9334	-0.2750mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:45:45 AM
3	0.8062	-0.3026mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:47:50 AM
4	0.8465	-0.2939mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:49:55 AM

Mean Area 1.017
Mean Conc. -0.2569mg/L



Sample

Sample Name: WBLKW2
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

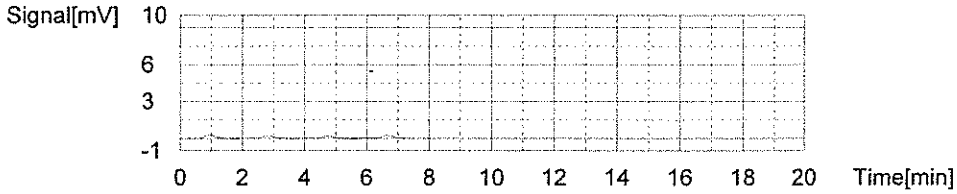
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3720mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.6796	-0.3301mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 8:58:00 AM
2	0.4718	-0.3753mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:00:05 AM
3	0.4606	-0.3777mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:02:10 AM
4	0.5276	-0.3631mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:04:15 AM

Mean Area 0.4867
Mean Conc. -0.3720mg/L



Sample

Sample Name: WLCSW2
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

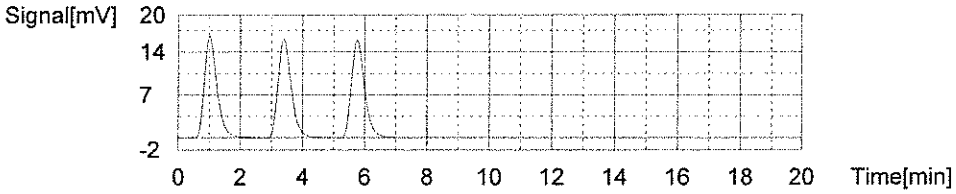
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.855mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.24	9.783mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:12:29 AM
2	47.70	9.883mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:15:01 AM
3	47.77	9.898mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:17:38 AM

Mean Area 47.57
Mean Conc. 9.855mg/L



Sample

Sample Name: 1207760-01A
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

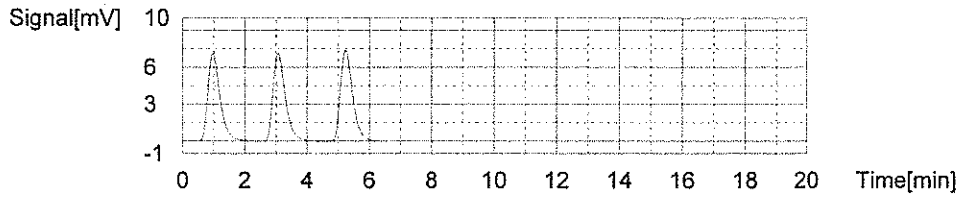
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.835mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.47	3.751mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:25:41 AM
2	19.89	3.842mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:28:02 AM
3	20.21	3.912mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:30:23 AM

Mean Area 19.86
Mean Conc. 3.835mg/L



Sample

Sample Name: 1207804-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

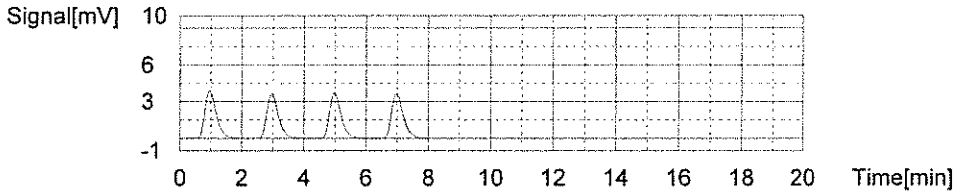
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.632mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.19	1.736mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:38:20 AM
2	9.565	1.600mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:40:32 AM
3	9.855	1.663mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:42:43 AM
4	9.726	1.635mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:44:53 AM

Mean Area 9.715
Mean Conc. 1.632mg/L



Sample

Sample Name: 1207804-01CMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

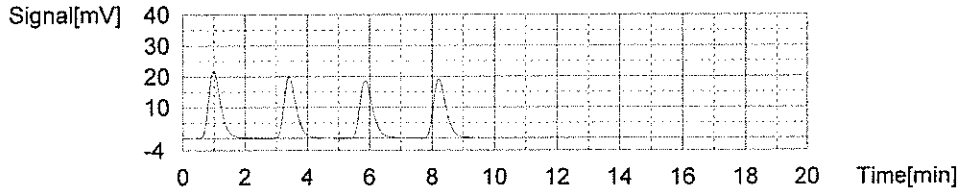
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.92	12.54mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:53:11 AM
2	55.30	11.53mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:55:48 AM
3	54.57	11.38mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 9:58:20 AM
4	54.90	11.45mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:00:57 AM

Mean Area 54.92
Mean Conc. 11.45mg/L



Sample

Sample Name: 1207804-01CMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

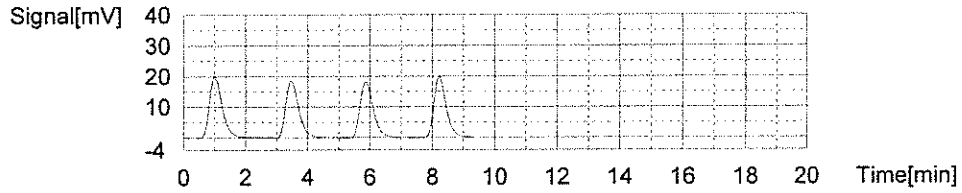
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.40mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.49	12.23mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:09:17 AM
2	54.61	11.38mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:11:51 AM
3	54.62	11.39mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:14:25 AM
4	54.85	11.44mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:16:56 AM

Mean Area 54.69
Mean Conc. 11.40mg/L



Sample

Sample Name: 1207804-02C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

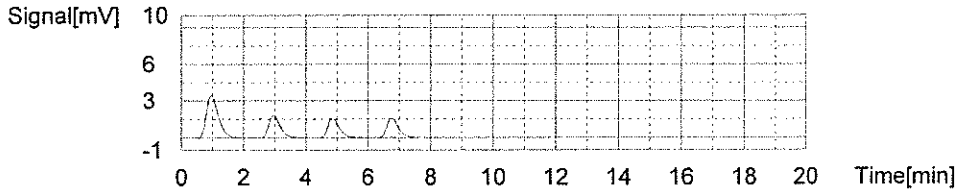
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4607mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.331	1.549mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:24:49 AM
2	4.668	0.5362mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:26:54 AM
3	4.177	0.4295mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:28:59 AM
4	4.116	0.4163mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:31:04 AM

Mean Area 4.320
Mean Conc. 0.4607mg/L



Sample

Sample Name: 1207804-03C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

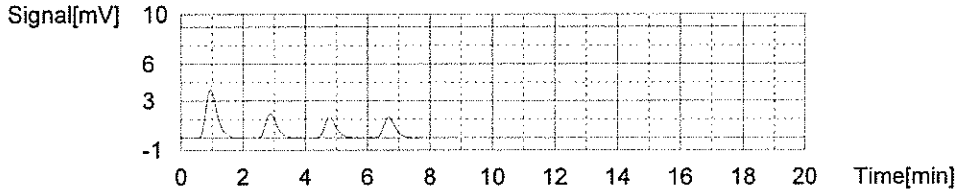
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5192mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.933	1.680mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:38:52 AM
2	5.115	0.6333mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:40:57 AM
3	4.328	0.4623mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:43:02 AM
4	4.327	0.4621mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:45:07 AM

Mean Area 4.590
Mean Conc. 0.5192mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

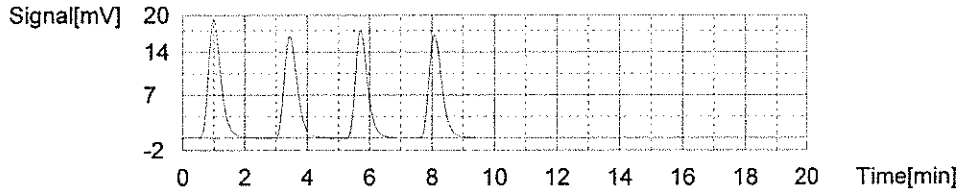
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.33	11.32mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:53:25 AM
2	49.26	10.22mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:55:54 AM
3	48.70	10.10mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 10:58:26 AM
4	49.16	10.20mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 11:00:58 AM

Mean Area 49.04
Mean Conc. 10.17mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

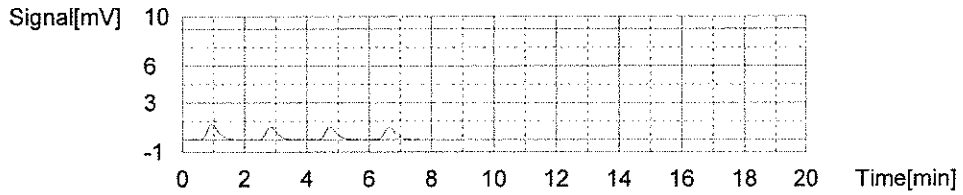
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.07946mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.227	0.2232mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 11:08:45 AM
2	2.604	0.08786mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 11:10:50 AM
3	2.593	0.08547mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 11:12:55 AM
4	2.499	0.06505mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 11:15:00 AM

Mean Area 2.565
Mean Conc. 0.07946mg/L



Sample

Sample Name: 1207804-04C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

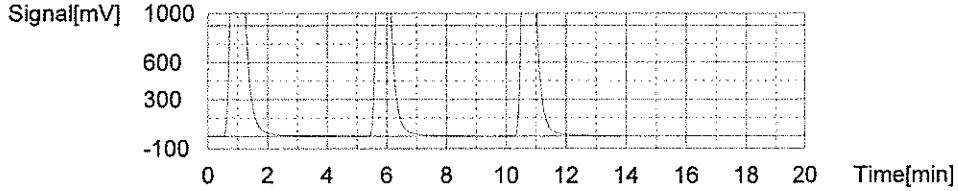
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1175mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5537	1202mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:25:47 AM
2	5366	1165mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:30:52 AM
3	5338	1159mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:36:00 AM

Mean Area 5414
Mean Conc. 1175mg/L



Sample

Sample Name: 1207804-05C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

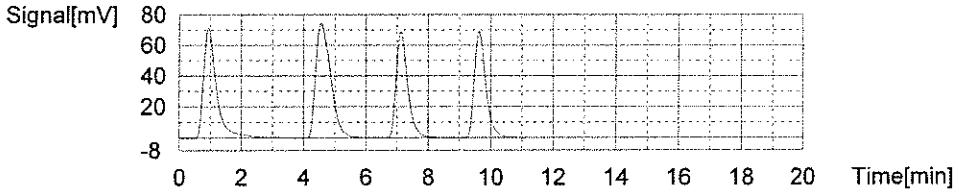
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:40.45mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	209.0	44.92mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:45:33 AM
2	249.6	53.74mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:48:20 AM
3	178.7	38.34mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:51:01 AM
4	177.6	38.10mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.cc	7/25/2012 11:53:37 AM

Mean Area 188.4
Mean Conc. 40.45mg/L



Sample

Sample Name: 1207804-06C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

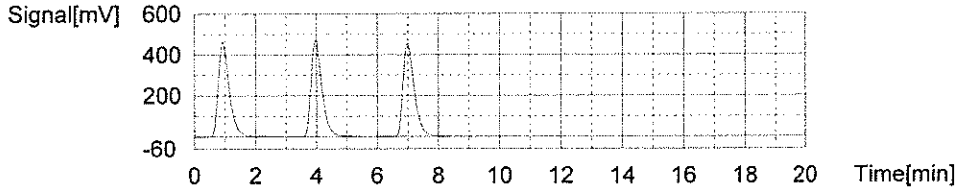
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:258.0mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1179	255.6mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:02:32 PM
2	1196	259.3mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:05:45 PM
3	1195	259.1mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:09:00 PM

Mean Area 1190
Mean Conc. 258.0mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

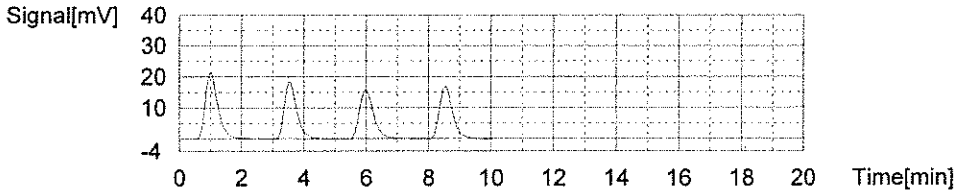
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.59mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.11	12.80mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:17:30 PM
2	51.75	10.76mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:20:04 PM
3	50.80	10.56mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:22:50 PM
4	50.34	10.46mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:25:34 PM

Mean Area 50.96
Mean Conc. 10.59mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

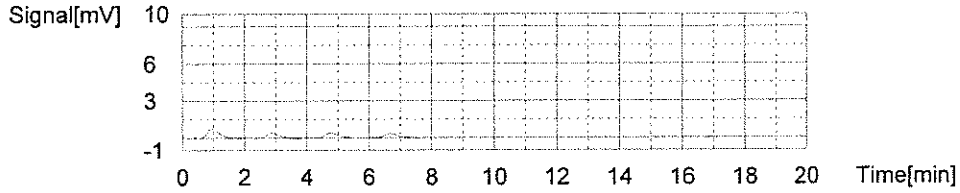
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.2351mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.098	-0.02205mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:33:21 PM
2	1.211	-0.2147mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:35:26 PM
3	1.166	-0.2245mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:37:31 PM
4	0.9749	-0.2660mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 12:39:36 PM

Mean Area 1.117
Mean Conc. -0.2351mg/L



Sample

Sample Name: 1207804-04DDF100
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

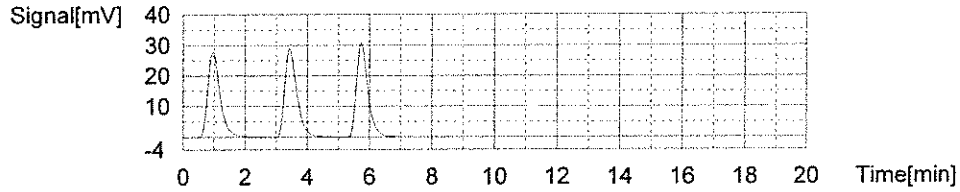
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.58mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	76.96	16.24mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:32:47 PM
2	78.83	16.64mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:35:16 PM
3	79.85	16.87mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:37:42 PM

Mean Area 78.55
Mean Conc. 16.58mg/L



Sample

Sample Name: 1207804-06DDF10
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

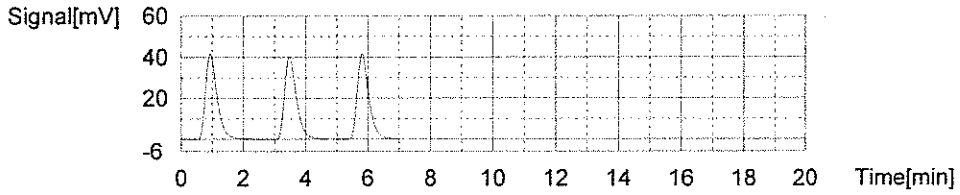
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	108.2	23.02mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:46:12 PM
2	107.1	22.79mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:48:43 PM
3	109.1	23.22mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:51:15 PM

Mean Area 108.1
Mean Conc. 23.01mg/L



Sample

Sample Name: 1207804-04CDF100
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

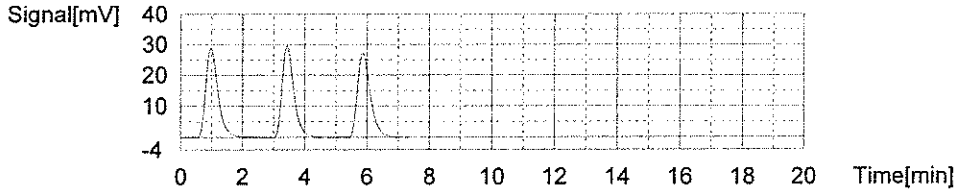
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:16.68mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	78.79	16.64mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 2:59:40 PM
2	78.50	16.57mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:02:16 PM
3	79.63	16.82mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:04:55 PM

Mean Area 78.97
Mean Conc. 16.68mg/L



Sample

Sample Name: 1207804-06CDF10
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

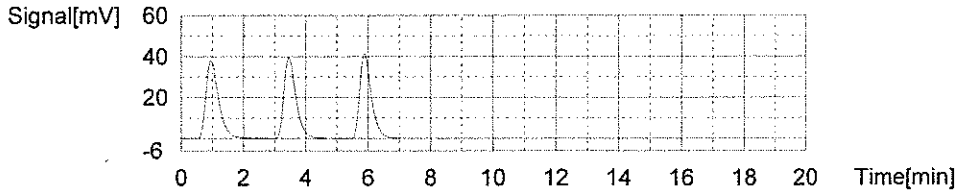
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:23.26mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	108.8	23.15mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:13:23 PM
2	109.0	23.20mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:16:00 PM
3	110.1	23.44mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:18:31 PM

Mean Area 109.3
Mean Conc. 23.26mg/L



Sample

Sample Name: 1207804-02D
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

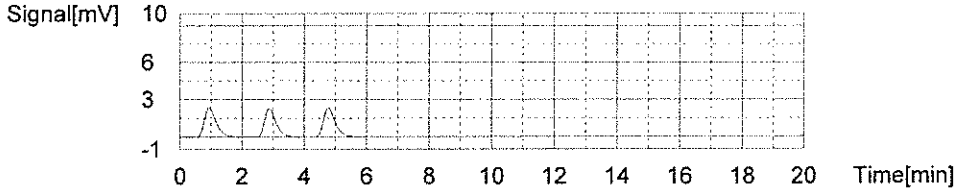
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8515mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.214	0.8720mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:41:40 PM
2	6.020	0.8298mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:43:45 PM
3	6.125	0.8526mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:45:51 PM

Mean Area 6.120
Mean Conc. 0.8515mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

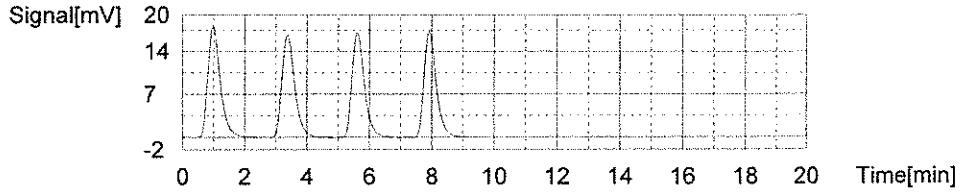
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.916mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.50	10.49mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:54:20 PM
2	47.96	9.939mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:56:47 PM
3	47.61	9.863mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 3:59:16 PM
4	47.98	9.944mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:01:52 PM

Mean Area 47.85
Mean Conc. 9.916mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

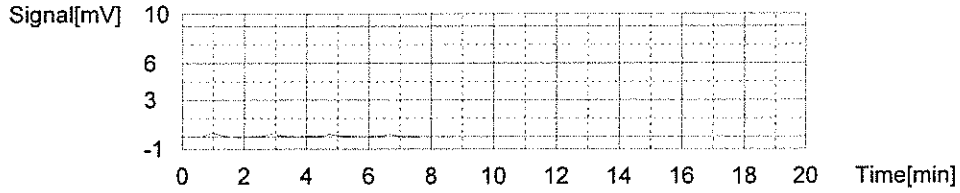
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3873mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.8202	-0.2996mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:09:40 PM
2	0.4477	-0.3805mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:11:45 PM
3	0.4249	-0.3855mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:13:50 PM
4	0.3763	-0.3960mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	7/25/2012 4:15:55 PM

Mean Area 0.4163
Mean Conc. -0.3873mg/L



ALS Environmental

Work Order: 1209887

Project Name:

Jones Road

EA Engineering, Science and Technology

Teri McMillan
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102
(505) 224-9013

16-Feb-2013

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

TABLE OF CONTENTS
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- Cover Letter
- TRRP Cover Page
- TRRP Laboratory Review Checklist
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- Chain of Custody, Sample Receipt Checklist, and Related Documents
- Qualifiers, Acronyms, and Units Table
- Analytical Report
- Dates Report
- Method Detection/Reporting Limits
- QC Batch Summary Report
- Gases RSK 175 Raw Data
- Wet Chemistry Raw Data

16-Feb-2013

Teri McMillan
EA Engineering, Science and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102

Tel: (505) 224-9013
Fax: (505) 224-9016

Re: Jones Road Work Order: **1209887**

Dear Teri,

ALS Environmental received 8 samples on 26-Sep-2012 11:19 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 309.

Regards,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

Client:	EA Engineering, Science and Technology	**TRRP Laboratory Data Package Cover Page**
Project:	Jones Road	
Work Order:	1209887	

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	EA Engineering, Science and Technology	**TRRP Laboratory Data Package Cover Page**
Project:	Jones Road	
Work Order:	1209887	

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Patricia L. Lynch

Patricia L. Lynch
Project Manager

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1209887
Reviewer Name: Pat Lynch	Prep Batch Number(s): R135731, R135936, R135987, R136003, R136015

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?		X			1
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1209887
Reviewer Name: Pat Lynch	Prep Batch Number(s): R135731, R135936, R135987, R136003, R136015

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/16/2013
Project Name: Jones Road	Laboratory Job Number: 1209887
Reviewer Name: Pat Lynch	Prep Batch Number(s): R135731, R135936, R135987, R136003, R136015

ER#[5]	Description
1	Batch R135987, Gases RSK 175, Sample 1209878-02: Duplicate RPD is for an unrelated sample.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: **1209887**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1209887-01	IW-03	Groundwater		9/25/2012 10:45	9/26/2012 11:19	☐
1209887-02	SVE-02	Groundwater		9/25/2012 13:01	9/26/2012 11:19	☐
1209887-03	SVE-02D	Groundwater		9/25/2012 13:01	9/26/2012 11:19	☐
1209887-04	OB-01	Groundwater		9/25/2012 14:47	9/26/2012 11:19	☐
1209887-05	OB-02	Groundwater		9/25/2012 16:57	9/26/2012 11:19	☐
1209887-06	MW-01	Groundwater		9/25/2012 16:00	9/26/2012 11:19	☐
1209887-07	Trip Blank 091412-27	Water		9/25/2012	9/26/2012 11:19	☐
1209887-08	Trip Blank 091412-26	Water		9/25/2012	9/26/2012 11:19	☐

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: 1209887

Case Narrative

At the request of the client, this report was revised to TRRP Level IV from standard report.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 61460

1209887

EA - NM: EA Engineering, Science and Technology

Project: Jones Road

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Jones Road	A	Gases (RSK-175) Methane,Ethane, Ethene
Work Order		Project Number	143427087	B	Anions (300) SO4, Nitrate, Nitrite
Company Name	EA Engineering, Science and Technology	Bill To Company	EA Engineering, Science and Technolo	C	Total TOC (415.1)
Send Report To	Teri McMillan	Invoice Attn	Teri McMillan	D	Dissolved TOC (415.1)
Address	320 Gold Avenue SW, Suite 1210	Address	320 Gold Avenue SW, Suite 1210	E	
				F	
City/State/Zip	Albuquerque, New Mexico 87102	City/State/Zip	Albuquerque, New Mexico 87102	G	
Phone	(505) 224-9013	Phone	(505) 224-9013	H	
Fax	(505) 224-9016	Fax	(505) 224-9016	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IW-03	9/25/12	1045	GW	1,8,3	11	X	X	X	X	* Please run MS/MSD on						
2	SVE-02		1301			5					IW-03 for all analyses						
3	SVE-02 D		1301														
4	OB-01		1447														
5	OB-02		1657														
6	MW-01		1600														
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Justin Sucheckl

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by: Justin Sucheckl | Date: 9/26/12 | Time: 11:19 | Received by: [illegible] ALS

Notes: 5 Day TAT.Client will filter.

Relinquished by: | Date: | Time: | Received by (Laboratory):

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Cooler ID | Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD _____
☐ TRRP CheckList
☑ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Sample Receipt Checklist

Client Name: **EA - NM**

Date/Time Received: **26-Sep-12 11:19**

Work Order: **1209887**

Received by: **RDN**

Checklist completed by Robert D. Harris (eSignature) 26-Sep-12 (Date)

Reviewed by: Patricia L. Lynch (eSignature) 27-Sep-12 (Date)

Matrices: waters

Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 1.1c, 1.3c c/u | 004

Cooler(s)/Kit(s): 3353,3990

Date/Time sample(s) sent to storage: 9/26/12 15:40

	Yes	No		
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted	☐
Water - pH acceptable upon receipt?	☑	☐	N/A	☐
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes: Trip blanks not on COC; logged in without analysis.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

CorrectiveAction:

SRC Page 1 of 1

1249801

CUSTODY SEAL

405 S. Highway 121, Suite 100
Lewisville, TX 75067
Telephone: 972-316-3300

EA Engineering, Science, and Technology, Inc. Signature

RW 9/26/12

Date 9/25/12

Sample No. Cooler 98

Seal Broken By

Date

CUSTODY SEAL

405 S. Highway 121, Suite 100
Lewisville, TX 75067
Telephone: 972-316-3300

EA Engineering, Science, and Technology, Inc. Signature

RW 9/26/12

Date 9/25/12

Sample No. Cooler 98

Seal Broken By

Date

Client: EA Engineering, Science and Technology
Project: Jones Road
WorkOrder: **1209887**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
ug/L	Micrograms per Liter

Analytical Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: IW-03
Collection Date: 9/25/2012 10:45 AM

Work Order: 1209887
Lab ID: 1209887-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		0.400	1.60	ug/L	1	9/29/2012 18:15
Ethene	U		0.300	1.40	ug/L	1	9/29/2012 18:15
Methane	**195**		**0.400**	**4.00**	**ug/L**	1	9/29/2012 18:15
Surr: Acetylene	*85.2*			*70-130*	*%REC*	1	9/29/2012 18:15
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**2.41**		**0.030**	**0.100**	**mg/L**	1	9/27/2012 03:01
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 03:01
Sulfate	**13.9**		**0.20**	**0.500**	**mg/L**	1	9/27/2012 03:01
Surr: Selenate (surr)	*99.9*			*85-115*	*%REC*	1	9/27/2012 03:01
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**1.12**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 19:06
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**1.15**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 19:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE-02
Collection Date: 9/25/2012 01:01 PM

Work Order: 1209887
Lab ID: 1209887-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		0.400	1.60	ug/L	1	9/29/2012 18:24
Ethene	U		0.300	1.40	ug/L	1	9/29/2012 18:24
Methane	**1.99**	J	**0.400**	**4.00**	**ug/L**	1	9/29/2012 18:24
Surr: Acetylene	*84.6*			*70-130*	*%REC*	1	9/29/2012 18:24
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**1.65**		**0.030**	**0.100**	**mg/L**	1	9/27/2012 03:22
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 03:22
Sulfate	**12.2**		**0.20**	**0.500**	**mg/L**	1	9/27/2012 03:22
Surr: Selenate (surr)	*97.9*			*85-115*	*%REC*	1	9/27/2012 03:22
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**1.06**		**0.10**	**0.500**	**mg/L**	1	10/1/2012 21:25
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**1.10**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 00:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE-02D
Collection Date: 9/25/2012 01:01 PM

Work Order: 1209887
Lab ID: 1209887-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		0.400	1.60	ug/L	1	9/29/2012 18:33
Ethene	U		0.300	1.40	ug/L	1	9/29/2012 18:33
Methane	U		0.400	4.00	ug/L	1	9/29/2012 18:33
Surr: Acetylene	*89.2*			*70-130*	*%REC*	1	9/29/2012 18:33
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**1.58**		**0.030**	**0.100**	**mg/L**	1	9/27/2012 03:44
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 03:44
Sulfate	**11.8**		**0.20**	**0.500**	**mg/L**	1	9/27/2012 03:44
Surr: Selenate (surr)	*99.1*			*85-115*	*%REC*	1	9/27/2012 03:44
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**1.10**		**0.10**	**0.500**	**mg/L**	1	10/1/2012 21:40
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**0.977**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 00:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB-01
Collection Date: 9/25/2012 02:47 PM

Work Order: 1209887
Lab ID: 1209887-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: NPI
Ethane	U		8.00	32.0	ug/L	20	10/2/2012 01:29
Ethene	U		6.00	28.0	ug/L	20	10/2/2012 01:29
Methane	**19,200**		**8.00**	**80.0**	**ug/L**	20	10/2/2012 01:29
Surr: Acetylene	*90.0*			*70-130*	*%REC*	20	10/2/2012 01:29
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	**6.85**		**0.030**	**0.100**	**mg/L**	1	9/27/2012 04:05
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 04:05
Sulfate	U		0.20	0.500	mg/L	1	9/27/2012 04:05
Surr: Selenate (surr)	*98.2*			*85-115*	*%REC*	1	9/27/2012 04:05
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Dissolved	**484**		**2.0**	**10.0**	**mg/L**	20	10/2/2012 20:34
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Total	**503**		**2.0**	**10.0**	**mg/L**	20	10/2/2012 20:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB-02
Collection Date: 9/25/2012 04:57 PM

Work Order: 1209887
Lab ID: 1209887-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: RSK-175					Analyst: NPI
Ethane	U		8.00	32.0	ug/L	20	10/2/2012 01:38
Ethene	U		6.00	28.0	ug/L	20	10/2/2012 01:38
Methane	**17,300**		**8.00**	**80.0**	**ug/L**	20	10/2/2012 01:38
Surr: Acetylene	*90.1*			*70-130*	*%REC*	20	10/2/2012 01:38
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	U		0.030	0.100	mg/L	1	9/27/2012 05:09
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 05:09
Sulfate	**0.670**		**0.20**	**0.500**	**mg/L**	1	9/27/2012 05:09
Surr: Selenate (surr)	*96.7*			*85-115*	*%REC*	1	9/27/2012 05:09
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Dissolved	**18.3**		**0.10**	**0.500**	**mg/L**	1	10/1/2012 22:13
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Total	**28.4**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 00:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: MW-01
Collection Date: 9/25/2012 04:00 PM

Work Order: 1209887
Lab ID: 1209887-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		8.00	32.0	ug/L	20	10/2/2012 01:47
Ethene	U		6.00	28.0	ug/L	20	10/2/2012 01:47
Methane	**18,700**		**8.00**	**80.0**	**ug/L**	20	10/2/2012 01:47
Surr: Acetylene	*93.5*			*70-130*	*%REC*	20	10/2/2012 01:47
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**0.0680**	*J*	**0.030**	**0.100**	**mg/L**	1	9/27/2012 05:30
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	9/27/2012 05:30
Sulfate	**0.769**		**0.20**	**0.500**	**mg/L**	1	9/27/2012 05:30
Surr: Selenate (surr)	*99.7*			*85-115*	*%REC*	1	9/27/2012 05:30
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**27.1**		**0.10**	**0.500**	**mg/L**	1	10/1/2012 22:59
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**31.5**		**0.10**	**0.500**	**mg/L**	1	10/2/2012 01:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Dates Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

Work Order: 1209887
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R135731	**Test Name:** Anions - EPA 300.0 (1993)					
1209887-01D	IW-03	Groundwater	9/25/2012 10:45:00 AM			9/27/2012 03:01 AM
1209887-02D	SVE-02		9/25/2012 1:01:00 PM			9/27/2012 03:22 AM
1209887-03D	SVE-02D					9/27/2012 03:44 AM
1209887-04D	OB-01		9/25/2012 2:47:00 PM			9/27/2012 04:05 AM
1209887-05D	OB-02		9/25/2012 4:57:00 PM			9/27/2012 05:09 AM
1209887-06D	MW-01		9/25/2012 4:00:00 PM			9/27/2012 05:30 AM
Batch ID R135936	**Test Name:** Dissolved Gases					
1209887-01A	IW-03	Groundwater	9/25/2012 10:45:00 AM			9/29/2012 06:15 PM
1209887-02A	SVE-02		9/25/2012 1:01:00 PM			9/29/2012 06:24 PM
1209887-03A	SVE-02D					9/29/2012 06:33 PM
Batch ID R135987	**Test Name:** Dissolved Gases					
1209887-04A	OB-01	Groundwater	9/25/2012 2:47:00 PM			10/2/2012 01:29 AM
1209887-05A	OB-02		9/25/2012 4:57:00 PM			10/2/2012 01:38 AM
1209887-06A	MW-01		9/25/2012 4:00:00 PM			10/2/2012 01:47 AM
Batch ID R136003	**Test Name:** TOC, Dissolved - SM5310C					
1209887-01B	IW-03	Groundwater	9/25/2012 10:45:00 AM			10/2/2012 07:06 PM
1209887-02B	SVE-02		9/25/2012 1:01:00 PM			10/1/2012 09:25 PM
1209887-03B	SVE-02D					10/1/2012 09:40 PM
1209887-04B	OB-01		9/25/2012 2:47:00 PM			10/2/2012 08:34 PM
1209887-05B	OB-02		9/25/2012 4:57:00 PM			10/1/2012 10:13 PM
1209887-06B	MW-01		9/25/2012 4:00:00 PM			10/1/2012 10:59 PM

Work Order: 1209887
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R136015	**Test Name:** Total Organic Carbon - SM5310C					
1209887-01C	IW-03	Groundwater	9/25/2012 10:45:00 AM			10/2/2012 07:48 PM
1209887-02C	SVE-02		9/25/2012 1:01:00 PM			10/2/2012 12:00 AM
1209887-03C	SVE-02D					10/2/2012 12:15 AM
1209887-04C	OB-01		9/25/2012 2:47:00 PM			10/2/2012 08:48 PM
1209887-05C	OB-02		9/25/2012 4:57:00 PM			10/2/2012 12:49 AM
1209887-06C	MW-01		9/25/2012 4:00:00 PM			10/2/2012 01:03 AM

Method Detection/Reporting Limits

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1209887
InstrumentID: FID-17
Test Code: RSK-175
Test Number: RSK-175
Test Name: Dissolved Gases

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Ethane	74-84-0	0.526	0.400	1.60
A	Ethene	74-85-1	0.665	0.300	1.40
A	Methane	74-82-8	3.23	0.400	4.00
S	Surr: Acetylene	74-86-2	0	0.300	2.00

WorkOrder: 1209887
InstrumentID: ICS3000
Test Code: 300_W
Test Number: E300
Test Name: Anions - EPA 300.0 (1993)

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Nitrogen, Nitrate (As N)	14797-55-8	0.058	0.030	0.10
A	Nitrogen, Nitrite (As N)	14797-65-0	0.040	0.030	0.10
A	Sulfate	14808-79-8	0.019	0.20	0.50
S	Surr: Selenate (surr)	10102-23-5	0	0.10	0.10

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1209887
InstrumentID: TOC_02
Test Code: TOC_Diss_5310C
Test Number: SM5310C
Test Name: TOC, Dissolved - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Dissolved	DOC	0.21	0.10	0.50

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1209887
InstrumentID: TOC_02
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon - SM5310C **Matrix:** Aqueous **Units:** mg/L

METHOD DETECTION / REPORTING LIMITS

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Total	7440-44-0	0.21	0.10	0.50

QC Batch Summary Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Work Order: 1209887
Project: Jones Road

QC BATCH REPORT

Batch ID: **R135936** Instrument ID **FID-17** Method: **RSK-175**

MBLK Sample ID: **GBLK-120929-R135936** Units: **ug/L** Analysis Date: **9/29/2012 05:39 PM**
Client ID: Run ID: **FID-17_120929A** SeqNo: **2963573** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.6								
Ethene	U	1.4								
Methane	U	4.0								
Surr: Acetylene	207.2	2.0	*200*	0	*104*	*70-130*		0		

LCS Sample ID: **GLCS-120929-R135936** Units: **ug/L** Analysis Date: **9/29/2012 12:19 PM**
Client ID: Run ID: **FID-17_120929A** SeqNo: **2963569** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methane	263.8	4.0	239	0	110	75-125		0		

LCS Sample ID: **GLCS-120929-R135936** Units: **ug/L** Analysis Date: **9/29/2012 01:39 PM**
Client ID: Run ID: **FID-17_120929A** SeqNo: **2963570** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	323.8	1.6	310	0	104	75-125		0		

LCS Sample ID: **GLCS-120929-R135936** Units: **ug/L** Analysis Date: **9/29/2012 02:59 PM**
Client ID: Run ID: **FID-17_120929A** SeqNo: **2963571** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethene	251.5	1.4	283	0	88.9	75-125		0		

DUP Sample ID: **1209887-01ADUP** Units: **ug/L** Analysis Date: **9/29/2012 07:08 PM**
Client ID: **IW-03** Run ID: **FID-17_120929A** SeqNo: **2963578** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.6	0	0	0		0	0	30	
Ethene	U	1.4	0	0	0		0	0	30	
Methane	186.2	4.0	0	0	0		195.2	4.73	30	
Surr: Acetylene	169.4	2.0	*200*	0	*84.7*	*70-130*	170.4	*0.593*	*30*	

The following samples were analyzed in this batch: 1209887-01A 1209887-02A 1209887-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1209887
Project: Jones Road

QC BATCH REPORT

Batch ID: **R135987** Instrument ID **FID-17** Method: **RSK-175**

MBLK Sample ID: **GBLK-121001-R135987** Units: **ug/L** Analysis Date: **10/2/2012 12:53 AM**
Client ID: Run ID: **FID-17_121001A** SeqNo: **2964746** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.6								
Ethene	U	1.4								
Methane	U	4.0								
Surr: Acetylene	178.8	2.0	*200*	0	*89.4*	*70-130*		0		

LCS Sample ID: **GLCS-121001-R135987** Units: **ug/L** Analysis Date: **10/1/2012 07:32 PM**
Client ID: Run ID: **FID-17_121001A** SeqNo: **2964742** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Methane	208.5	4.0	239	0	87.3	75-125		0		

LCS Sample ID: **GLCS-121001-R135987** Units: **ug/L** Analysis Date: **10/1/2012 08:53 PM**
Client ID: Run ID: **FID-17_121001A** SeqNo: **2964743** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	292	1.6	310	0	94.2	75-125		0		

LCS Sample ID: **GLCS-121001-R135987** Units: **ug/L** Analysis Date: **10/1/2012 10:13 PM**
Client ID: Run ID: **FID-17_121001A** SeqNo: **2964744** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethene	276.9	1.4	283	0	97.8	75-125		0		

DUP Sample ID: **1209878-02BDUP** Units: **ug/L** Analysis Date: **10/2/2012 01:20 AM**
Client ID: Run ID: **FID-17_121001A** SeqNo: **2964749** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.6	0	0	0		0	0	30	
Ethene	U	1.4	0	0	0		0	0	30	
Methane	755.7	4.0	0	0	0		550.6	31.4	30	R
Surr: Acetylene	160.5	2.0	*200*	0	*80.3*	*70-130*	176.7	*9.62*	*30*	

The following samples were analyzed in this batch: 1209887-04A 1209887-05A 1209887-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1209887
Project: Jones Road

QC BATCH REPORT

Batch ID: **R135731** Instrument ID **ICS3000** Method: **E300** **(Dissolve)**

MBLK Sample ID: **WBLKW1-R135731** Units: **mg/L** Analysis Date: **9/27/2012 01:15 AM**
Client ID: Run ID: **ICS3000_120926B** SeqNo: **2959203** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	U	0.50								
Surr: Selenate (surr)	4.733	0.10	*5*	0	*94.7*	*85-115*	0			

LCS Sample ID: **WLCSW1-R135731** Units: **mg/L** Analysis Date: **9/27/2012 01:36 AM**
Client ID: Run ID: **ICS3000_120926B** SeqNo: **2959204** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.907	0.10	4	0	97.7	90-110	0			
Nitrogen, Nitrite (As N)	3.882	0.10	4	0	97	90-110	0			
Sulfate	18.19	0.50	20	0	91	90-110	0			
Surr: Selenate (surr)	4.509	0.10	*5*	0	*90.2*	*85-115*	0			

MS Sample ID: **1209698-04DMSZ** Units: **mg/L** Analysis Date: **9/27/2012 08:20 AM**
Client ID: Run ID: **ICS3000_120926B** SeqNo: **2959227** Prep Date: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	10.58	0.50	10	0	106	80-120	0			H
Nitrogen, Nitrite (As N)	11.18	0.50	10	0	112	80-120	0			H
Sulfate	203.7	2.5	50	155.4	96.7	80-120	0			
Surr: Selenate (surr)	24.51	0.50	*25*	0	*98*	*85-115*	0			

MSD Sample ID: **1209698-04DMSDZ** Units: **mg/L** Analysis Date: **9/27/2012 08:42 AM**
Client ID: Run ID: **ICS3000_120926B** SeqNo: **2959230** Prep Date: DF: **5**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	10.63	0.50	10	0	106	80-120	10.58	0.434	20	H
Nitrogen, Nitrite (As N)	11.19	0.50	10	0	112	80-120	11.18	0.134	20	H
Sulfate	204	2.5	50	155.4	97.2	80-120	203.7	0.126	20	
Surr: Selenate (surr)	24.52	0.50	*25*	0	*98.1*	*85-115*	24.51	*0.0612*	*20*	

The following samples were analyzed in this batch:

1209887-01D	1209887-02D	1209887-03D
1209887-04D	1209887-05D	1209887-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1209887
Project: Jones Road

QC BATCH REPORT

Batch ID: **R136003** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW-100112-R136003** Units: **mg/L** Analysis Date: **10/1/2012 08:00 PM**
Client ID: Run ID: **TOC_02_121001B** SeqNo: **2965083** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	0.2158	0.50								J

LCS Sample ID: **WLCSW-R136003** Units: **mg/L** Analysis Date: **10/1/2012 08:15 PM**
Client ID: Run ID: **TOC_02_121001B** SeqNo: **2965086** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.861	0.50	10	0	98.6	80-120	0			

LCSD Sample ID: **WLCSDW-R136003** Units: **mg/L** Analysis Date: **10/1/2012 08:29 PM**
Client ID: Run ID: **TOC_02_121001B** SeqNo: **2965089** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.727	0.50	10	0	97.3	80-120	9.861	1.37	20	

MS Sample ID: **1209887-01BMS** Units: **mg/L** Analysis Date: **10/2/2012 07:21 PM**
Client ID: **IW-03** Run ID: **TOC_02_121001B** SeqNo: **2966473** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	12.46	0.50	10	1.12	113	80-120	0			

MSD Sample ID: **1209887-01BMSD** Units: **mg/L** Analysis Date: **10/2/2012 07:35 PM**
Client ID: **IW-03** Run ID: **TOC_02_121001B** SeqNo: **2966475** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	12.5	0.50	10	1.12	114	80-120	12.46	0.321	20	

The following samples were analyzed in this batch:

1209887-01B	1209887-02B	1209887-03B
1209887-04B	1209887-05B	1209887-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1209887
Project: Jones Road

QC BATCH REPORT

Batch ID: **R136015** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW-100112-R136015** Units: **mg/L** Analysis Date: **10/1/2012 08:00 PM**
Client ID: Run ID: **TOC_02_121001C** SeqNo: **2965176** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	0.2158	0.50								J

LCS Sample ID: **WLCSW-R136015** Units: **mg/L** Analysis Date: **10/1/2012 08:15 PM**
Client ID: Run ID: **TOC_02_121001C** SeqNo: **2965178** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.861	0.50	10	0	98.6	80-120	0			

LCSD Sample ID: **WLCSDW-R136015** Units: **mg/L** Analysis Date: **10/1/2012 08:29 PM**
Client ID: Run ID: **TOC_02_121001C** SeqNo: **2965179** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	9.727	0.50	10	0	97.3	80-120	9.861	1.37	20	

MS Sample ID: **1209887-01CMS** Units: **mg/L** Analysis Date: **10/2/2012 08:04 PM**
Client ID: **IW-03** Run ID: **TOC_02_121001C** SeqNo: **2966458** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	20.1	0.50	20	1.147	94.8	80-120	0			

MSD Sample ID: **1209887-01CMSD** Units: **mg/L** Analysis Date: **10/2/2012 08:20 PM**
Client ID: **IW-03** Run ID: **TOC_02_121001C** SeqNo: **2966461** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	20.2	0.50	20	1.147	95.3	80-120	20.1	0.496	20	

The following samples were analyzed in this batch:

1209887-01C	1209887-02C	1209887-03C
1209887-04C	1209887-05C	1209887-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Dissolved Gases (RSK 175) Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

FORM 2
WATER GASES SURROGATE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

	ENG SC SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	1209887-01A	85								0
02	1209887-02A	84								0
03	1209887-03A	89								0
04	1209887-01AD	85								0
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

S1 = Acetylene QC LIMITS (60-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FID17-Logbook

Batch: 7128
Date: 29-Sep-12
Method: RSK
Comments:

Analyst: Kristin Brown
Reviewer: Sabryna Espinal
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BLK	SAMP	09-29-2012 10:57	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	METHANE1	CALIB_1	09-29-2012 11:07	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	METHANE2	CALIB_2	09-29-2012 11:16	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	METHANE3	CALIB_3	09-29-2012 11:25	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	METHANE4	CALIB_4	09-29-2012 11:34	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	METHANE5	CALIB_5	09-29-2012 11:43	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	METHANE6	CALIB_6	09-29-2012 11:52	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	METHANE7	CALIB_7	09-29-2012 12:01	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	METHANE8	CALIB_8	09-29-2012 12:10	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	METHANEICV	CCV	09-29-2012 12:19	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	ETHANE1	CALIB_1	09-29-2012 12:28	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	ETHANE2	CALIB_2	09-29-2012 12:36	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	ETHANE3	CALIB_3	09-29-2012 12:45	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	ETHANE4	CALIB_4	09-29-2012 12:54	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	ETHANE5	CALIB_5	09-29-2012 13:03	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	ETHANE6	CALIB_6	09-29-2012 13:12	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	ETHANE7	CALIB_7	09-29-2012 13:21	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	ETHANE8	CALIB_8	09-29-2012 13:30	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	ETHANEICV	CCV	09-29-2012 13:39	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA
20	ETHENE1	CALIB_1	09-29-2012 13:48	1.00	0.00 mL	0.00 mL	020.D	Liquid	☒	NA
21	ETHENE2	CALIB_2	09-29-2012 13:57	1.00	0.00 mL	0.00 mL	021.D	Liquid	☒	NA
22	ETHENE3	CALIB_3	09-29-2012 14:06	1.00	0.00 mL	0.00 mL	022.D	Liquid	☒	NA
23	ETHENE4	CALIB_4	09-29-2012 14:14	1.00	0.00 mL	0.00 mL	023.D	Liquid	☒	NA
24	ETHENE5	CALIB_5	09-29-2012 14:23	1.00	0.00 mL	0.00 mL	024.D	Liquid	☒	NA
25	ETHENE6	CALIB_6	09-29-2012 14:32	1.00	0.00 mL	0.00 mL	025.D	Liquid	☒	NA
26	ETHENE7	CALIB_7	09-29-2012 14:41	1.00	0.00 mL	0.00 mL	026.D	Liquid	☒	NA
27	ETHENE8	CALIB_8	09-29-2012 14:50	1.00	0.00 mL	0.00 mL	027.D	Liquid	☒	NA
28	ETHENEICV	CCV	09-29-2012 14:59	1.00	0.00 mL	0.00 mL	028.D	Liquid	☒	NA
29	PROPANE1	CALIB_1	09-29-2012 15:08	1.00	0.00 mL	0.00 mL	029.D	Liquid	☒	NA
30	PROPANE2	CALIB_2	09-29-2012 15:17	1.00	0.00 mL	0.00 mL	030.D	Liquid	☒	NA
31	PROPANE3	CALIB_3	09-29-2012 15:26	1.00	0.00 mL	0.00 mL	031.D	Liquid	☒	NA
32	PROPANE4	CALIB_4	09-29-2012 15:35	1.00	0.00 mL	0.00 mL	032.D	Liquid	☒	NA
33	PROPANE5	CALIB_5	09-29-2012 15:44	1.00	0.00 mL	0.00 mL	033.D	Liquid	☒	NA
34	PROPANE6	CALIB_6	09-29-2012 15:52	1.00	0.00 mL	0.00 mL	034.D	Liquid	☒	NA
35	PROPANE7	CALIB_7	09-29-2012 16:01	1.00	0.00 mL	0.00 mL	035.D	Liquid	☒	NA
36	PROPANE8	CALIB_8	09-29-2012 16:10	1.00	0.00 mL	0.00 mL	036.D	Liquid	☒	NA
37	PROPANEICV	CCV	09-29-2012 16:19	1.00	0.00 mL	0.00 mL	037.D	Liquid	☒	NA
38	ACETYLENE1	CALIB_1	09-29-2012 16:28	1.00	0.00 mL	0.00 mL	038.D	Liquid	☒	NA
39	ACETYLENE2	CALIB_2	09-29-2012 16:37	1.00	0.00 mL	0.00 mL	039.D	Liquid	☒	NA
40	ACETYLENE3	CALIB_3	09-29-2012 16:46	1.00	0.00 mL	0.00 mL	040.D	Liquid	☒	NA
41	ACETYLENE4	CALIB_4	09-29-2012 16:55	1.00	0.00 mL	0.00 mL	041.D	Liquid	☒	NA

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FID17-Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	ACETYLENE5	CALIB_5	09-29-2012 17:04	1.00	0.00 mL	0.00 mL	042.D	Liquid	☒	NA
43	ACETYLENE6	CALIB_6	09-29-2012 17:13	1.00	0.00 mL	0.00 mL	043.D	Liquid	☒	NA
44	ACETYLENE7	CALIB_7	09-29-2012 17:22	1.00	0.00 mL	0.00 mL	044.D	Liquid	☒	NA
45	ACETYLENE8	CALIB_8	09-29-2012 17:30	1.00	0.00 mL	0.00 mL	045.D	Liquid	☒	NA
46	ACETYLENEICV	CCV	09-29-2012 17:39	1.00	0.00 mL	0.00 mL	046.D	Liquid	☒	NA
47	1209982-01A	SAMP	09-29-2012 17:48	50.00	0.00 mL	0.00 mL	047.D	Liquid	☒	NA
48	1209878-01B	SAMP	09-29-2012 17:57	1.00	0.00 mL	0.00 mL	048.D	Liquid	☒	NA
49	1209878-02B	SAMP	09-29-2012 18:06	1.00	0.00 mL	0.00 mL	049.D	Liquid	☒	NA
50	1209887-01A	SAMP	09-29-2012 18:15	1.00	0.00 mL	0.00 mL	050.D	Liquid	☒	NA
51	1209887-02A	SAMP	09-29-2012 18:24	1.00	0.00 mL	0.00 mL	051.D	Liquid	☒	NA
52	1209887-03A	SAMP	09-29-2012 18:33	1.00	0.00 mL	0.00 mL	052.D	Liquid	☒	NA
53	1209887-04A	SAMP	09-29-2012 18:42	1.00	0.00 mL	0.00 mL	053.D	Liquid	☒	NA
54	1209887-05A	SAMP	09-29-2012 18:51	1.00	0.00 mL	0.00 mL	054.D	Liquid	☒	NA
55	1209887-06A	SAMP	09-29-2012 18:59	1.00	0.00 mL	0.00 mL	055.D	Liquid	☒	NA
56	1209887-01ADUP	SAMP	09-29-2012 19:08	1.00	0.00 mL	0.00 mL	056.D	Liquid	☒	NA
57	METHANECCV	CCV	09-29-2012 19:17	1.00	0.00 mL	0.00 mL	057.D	Liquid	☒	NA
58	ETHANECCV	CCV	09-29-2012 19:26	1.00	0.00 mL	0.00 mL	058.D	Liquid	☒	NA
59	ETHENECCV	CCV	09-29-2012 19:35	1.00	0.00 mL	0.00 mL	059.D	Liquid	☒	NA
60	PROPANECCV	CCV	09-29-2012 19:44	1.00	0.00 mL	0.00 mL	060.D	Liquid	☒	NA
61	ACETYLENECCV	CCV	09-29-2012 19:53	1.00	0.00 mL	0.00 mL	061.D	Liquid	☒	NA
62	BLK	SAMP	09-29-2012 20:02	1.00	0.00 mL	0.00 mL	062.D	Liquid	☒	NA

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FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ACETYLENE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Acetylene	200.000	207.206	104	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ETHANEICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Ethane	310.000	323.756	104	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ETHENEICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Ethene	283.000	251.487	89	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: METHANEIC

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Methane	239.000	263.768	110	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1107 1210

LAB FILE ID: RF5: 002 RF10: 003 RF20: 004
RF40: 005 RF60: 006 RF80: 007

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Methane	64.167	63.333	66.833	73.054	60.833	56.197

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1107 1210

LAB FILE ID: RF100: 008 RF0: 009

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Methane	50.823	76.117	AVRG	63.9196489	12.979	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1228 1330

LAB FILE ID: RF5: 011 RF10: 012 RF20: 013
RF40: 014 RF60: 015 RF80: 016

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Ethane	56.129	75.613	79.032	64.935	75.148	67.006

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1228 1330

LAB FILE ID: RF100: 017 RF0: 018

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Ethane	59.137	74.993	AVRG	68.9993145	12.268	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1348 1450

LAB FILE ID: RF5: 020 RF10: 021 RF20: 022
RF40: 023 RF60: 024 RF80: 025

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Ethene	101.408	85.634	87.465	91.767	83.230	81.961

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1348 1450

LAB FILE ID: RF100: 026 RF0: 027

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Ethene	78.170	119.053	AVRG	91.0859707	14.635	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1628 1730

LAB FILE ID: RF5: 038 RF10: 039 RF20: 040
RF40: 041 RF60: 042 RF80: 043

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Acetylene	64.000	68.000	66.050	68.380	68.060	68.945

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 09/29/12 09/29/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1628 1730

LAB FILE ID: RF100: 044 RF0: 045

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Acetylene	57.598	62.890	AVRG	65.4903750	5.907	20.000

FORM VI GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 09/29/12 Time: 1917

Lab File ID: 057 Init. Calib. Date(s): 09/29/12 09/29/12

Init. Calib. Times: 1107 1210

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Methane	63.920000	74.778243	0.01	-16.99	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 09/29/12 Time: 1926

Lab File ID: 058 Init. Calib. Date(s): 09/29/12 09/29/12

Init. Calib. Times: 1228 1330

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Ethane	68.999000	80.748387	0.01	-17.03	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 09/29/12 Time: 1935

Lab File ID: 059 Init. Calib. Date(s): 09/29/12 09/29/12

Init. Calib. Times: 1348 1450

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Ethene	91.086000	97.459364	0.01	-7.00	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 09/29/12 Time: 1953

Lab File ID: 061 Init. Calib. Date(s): 09/29/12 09/29/12

Init. Calib. Times: 1628 1730

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Acetylene	65.490000	65.270000	0.01	0.34	20.00	AVRG

FORM VII GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\002.D
Lab Smp Id: METHANE1 Client Smp ID: METHANE1
Inj Date : 29-SEP-2012 11:07
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE1;METHANE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:00 Cal File: 038.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
1 Methane	0.686	0.686	0.000	308	4.80000		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\002.D

Page 2

Date : 29-SEP-2012 11:07

Client ID: METHANE1

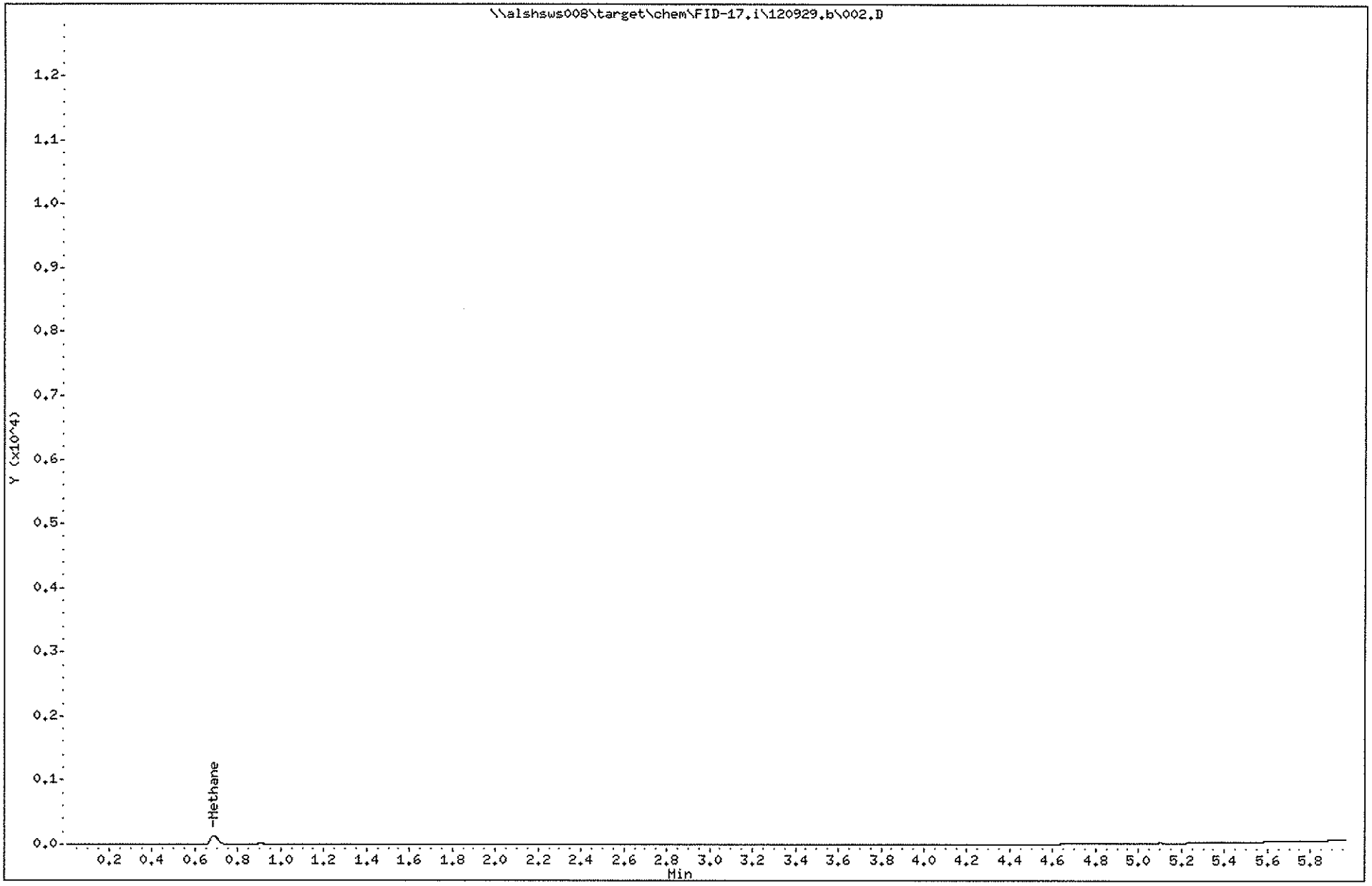
Instrument: FID-17.i

Sample Info: METHANE1;METHANE1;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

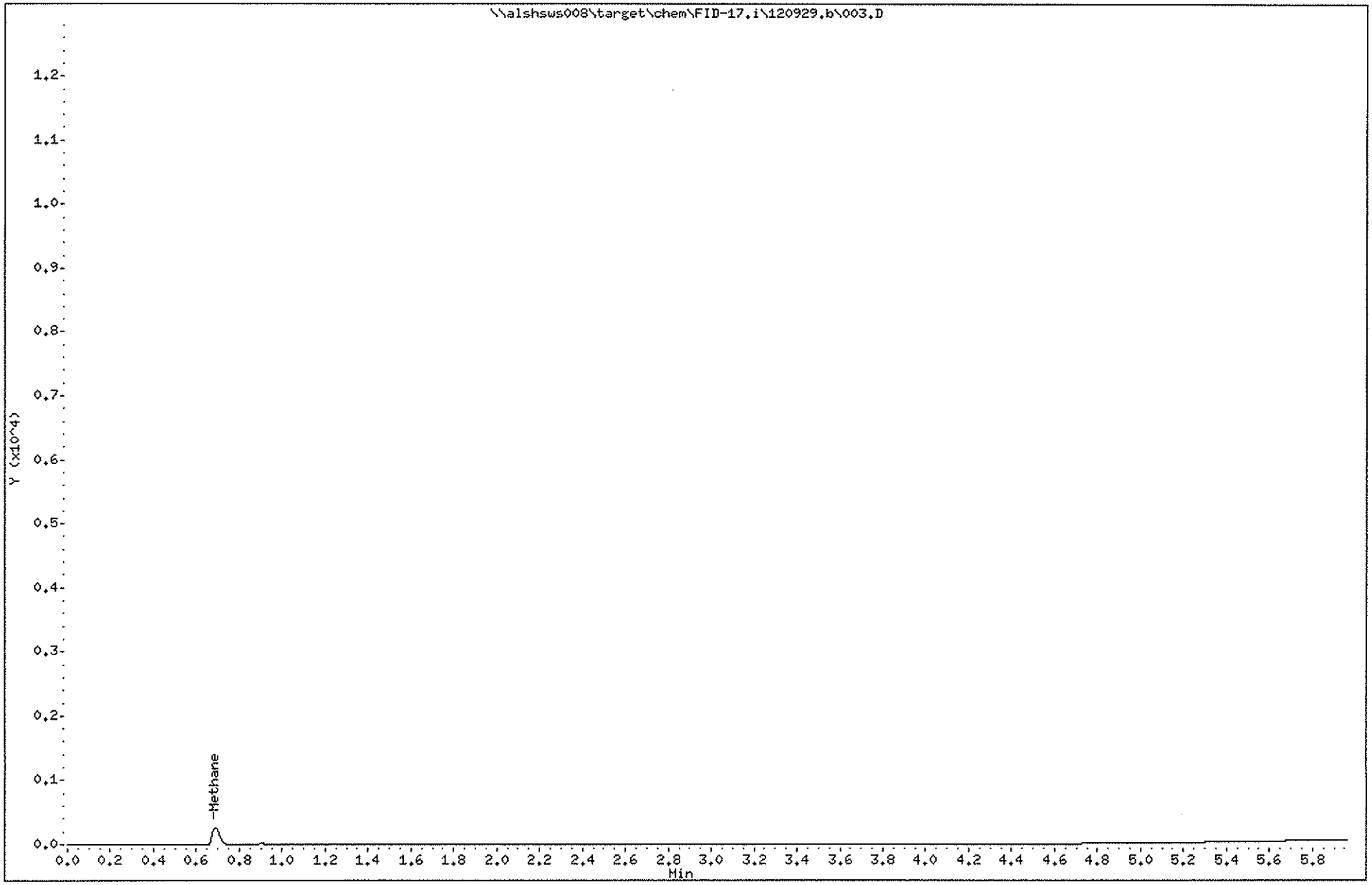
Data file : \\alshsws008\target\chem\FID-17.i\120929.b\003.D
Lab Smp Id: METHANE2 Client Smp ID: METHANE2
Inj Date : 29-SEP-2012 11:16
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE2;METHANE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:09 Cal File: 039.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	608	9.60000	9.475

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\003.D
Date : 29-SEP-2012 11:16
Client ID: METHANE2
Sample Info: METHANE2;METHANE2;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\004.D
Lab Smp Id: METHANE3 Client Smp ID: METHANE3
Inj Date : 29-SEP-2012 11:25
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE3;METHANE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:18 Cal File: 040.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	802	12.0000	12.580

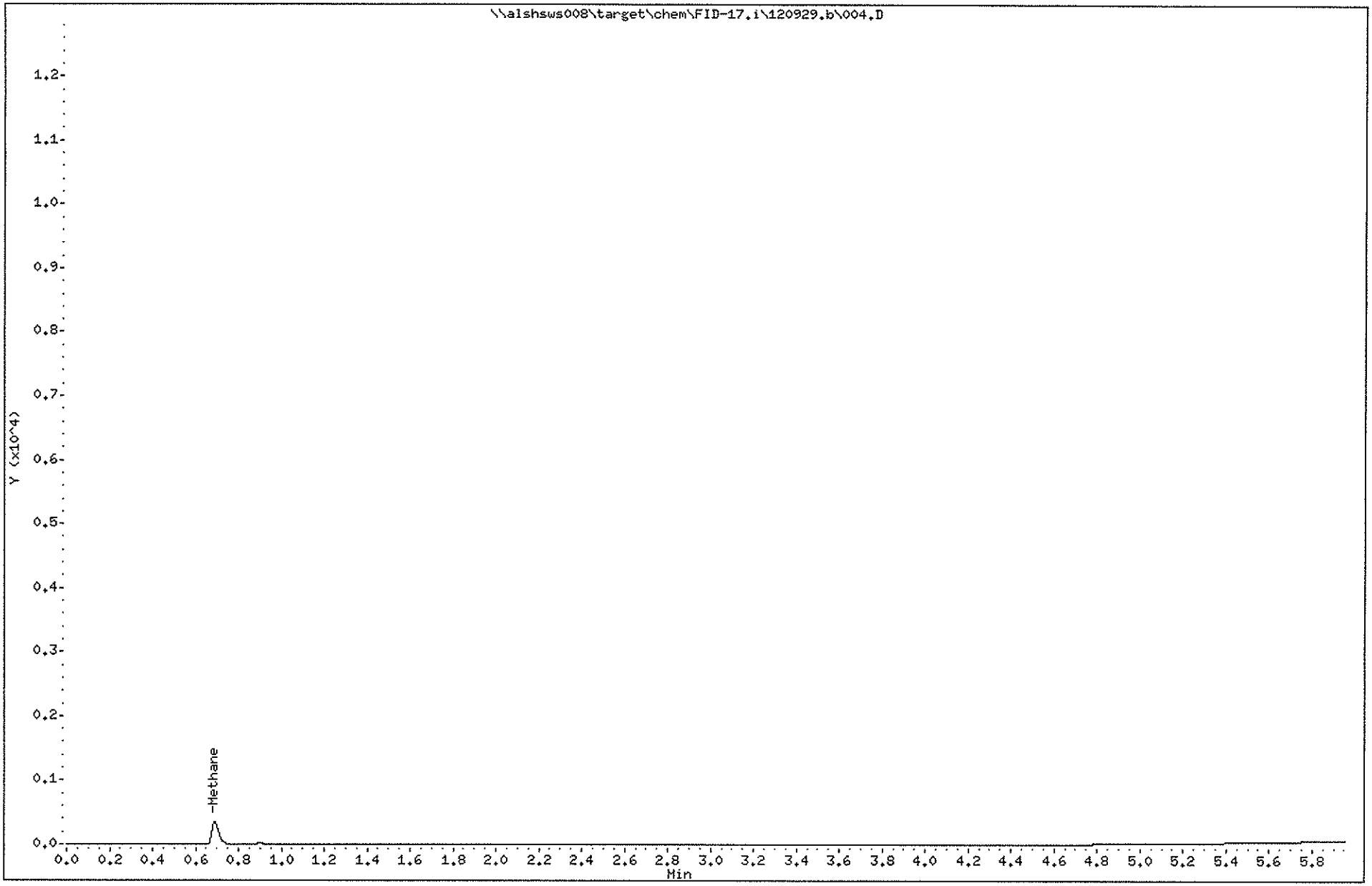
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\004.D
Date : 29-SEP-2012 11:25
Client ID: METHANE3
Sample Info: METHANE3;METHANE3;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\005.D
Lab Smp Id: METHANE4 Client Smp ID: METHANE4
Inj Date : 29-SEP-2012 11:34
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE4;METHANE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:27 Cal File: 041.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	1746	23.9000	26.953

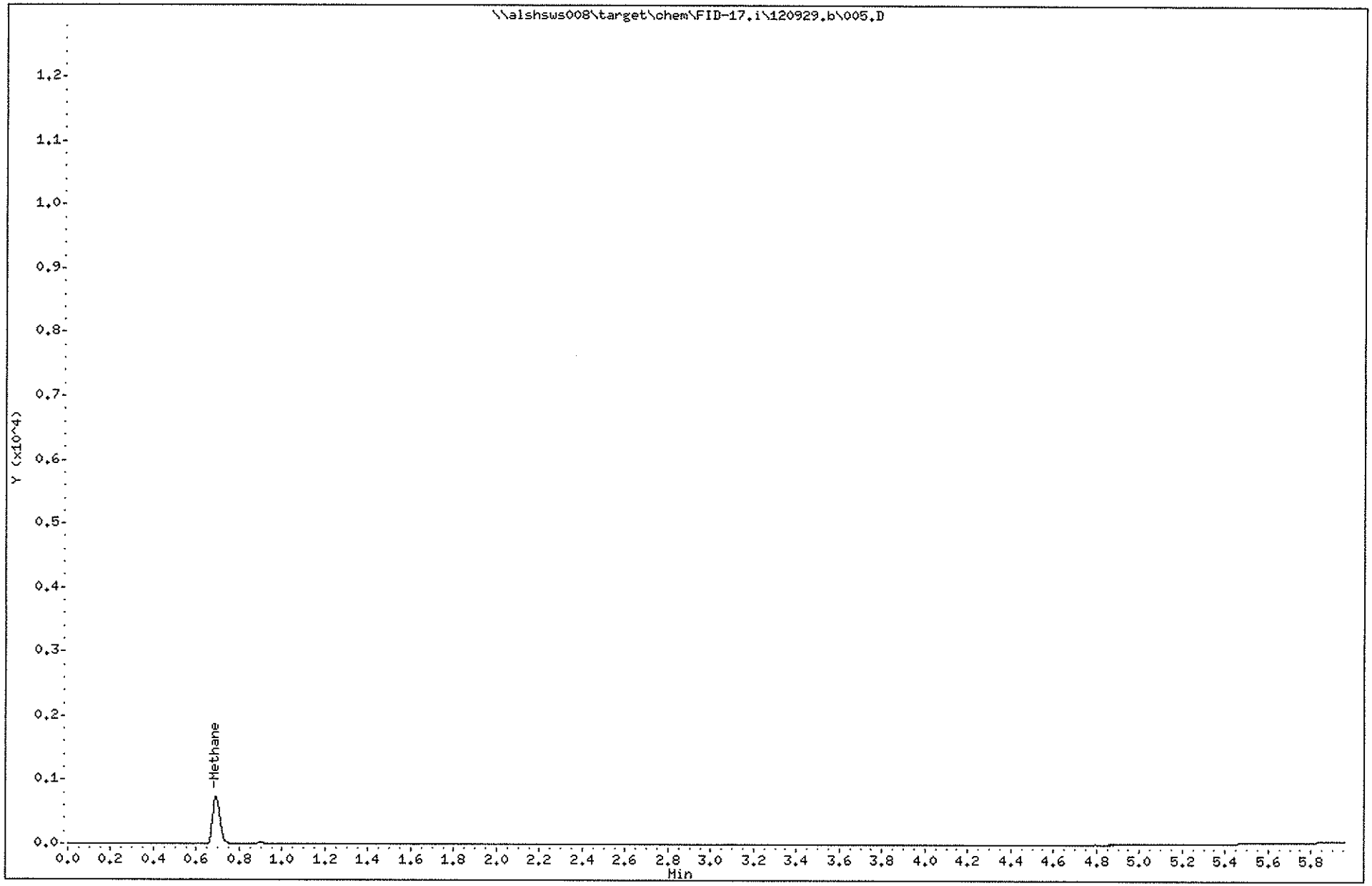
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\005.D
Date : 29-SEP-2012 11:34
Client ID: METHANE4
Sample Info: METHANE4;METHANE4;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\006.D
Lab Smp Id: METHANE5 Client Smp ID: METHANE5
Inj Date : 29-SEP-2012 11:43
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE5;METHANE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:36 Cal File: 042.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	7300	120.000	109.204(A)

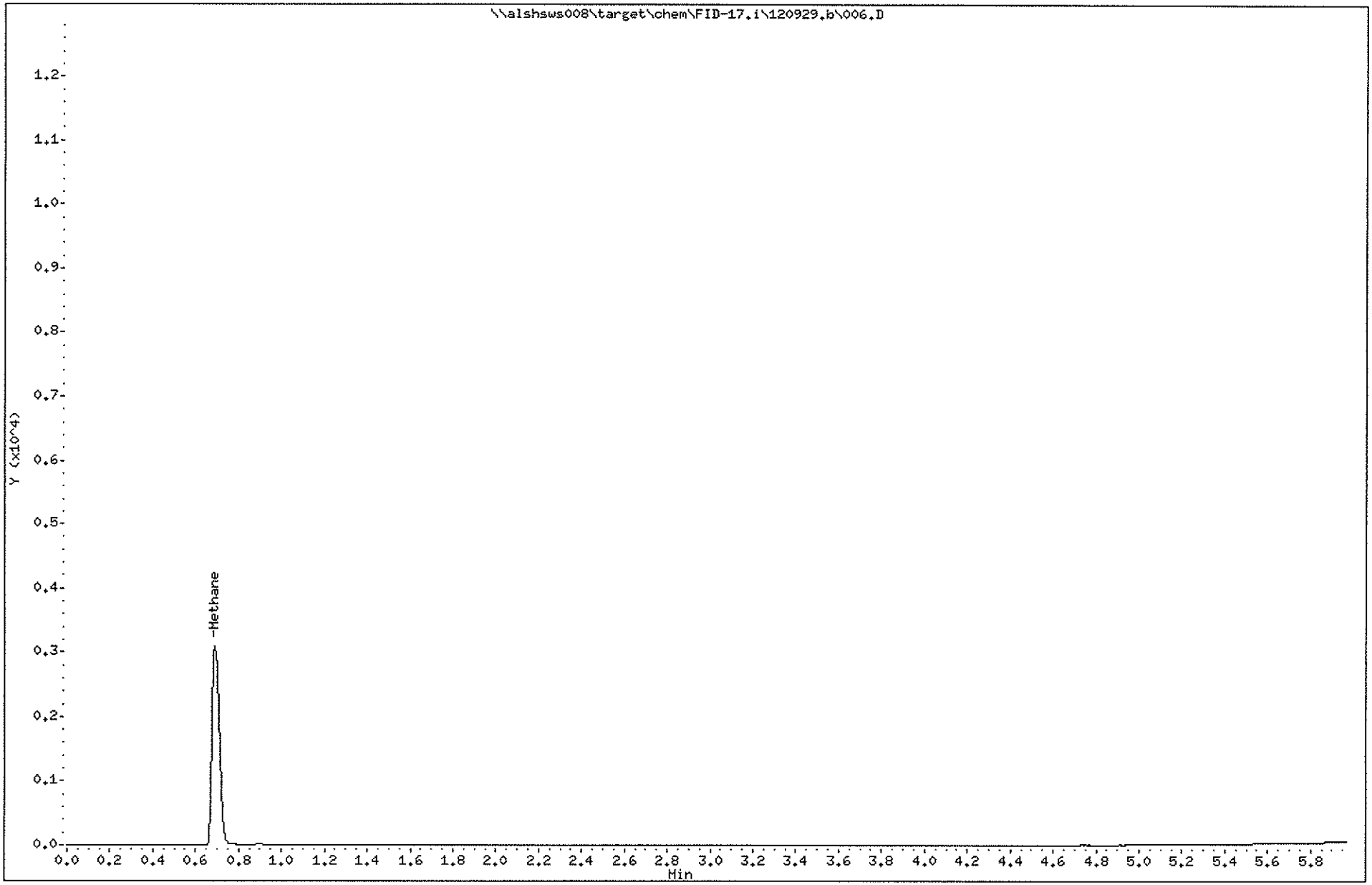
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\006.D
Date : 29-SEP-2012 11:43
Client ID: METHANE5
Sample Info: METHANE5;METHANE5;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\007.D
Lab Smp Id: METHANE6 Client Smp ID: METHANE6
Inj Date : 29-SEP-2012 11:52
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE6;METHANE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:45 Cal File: 043.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	13431	239.000	204.602(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\007.D

Page 2

Date : 29-SEP-2012 11:52

Client ID: METHANE6

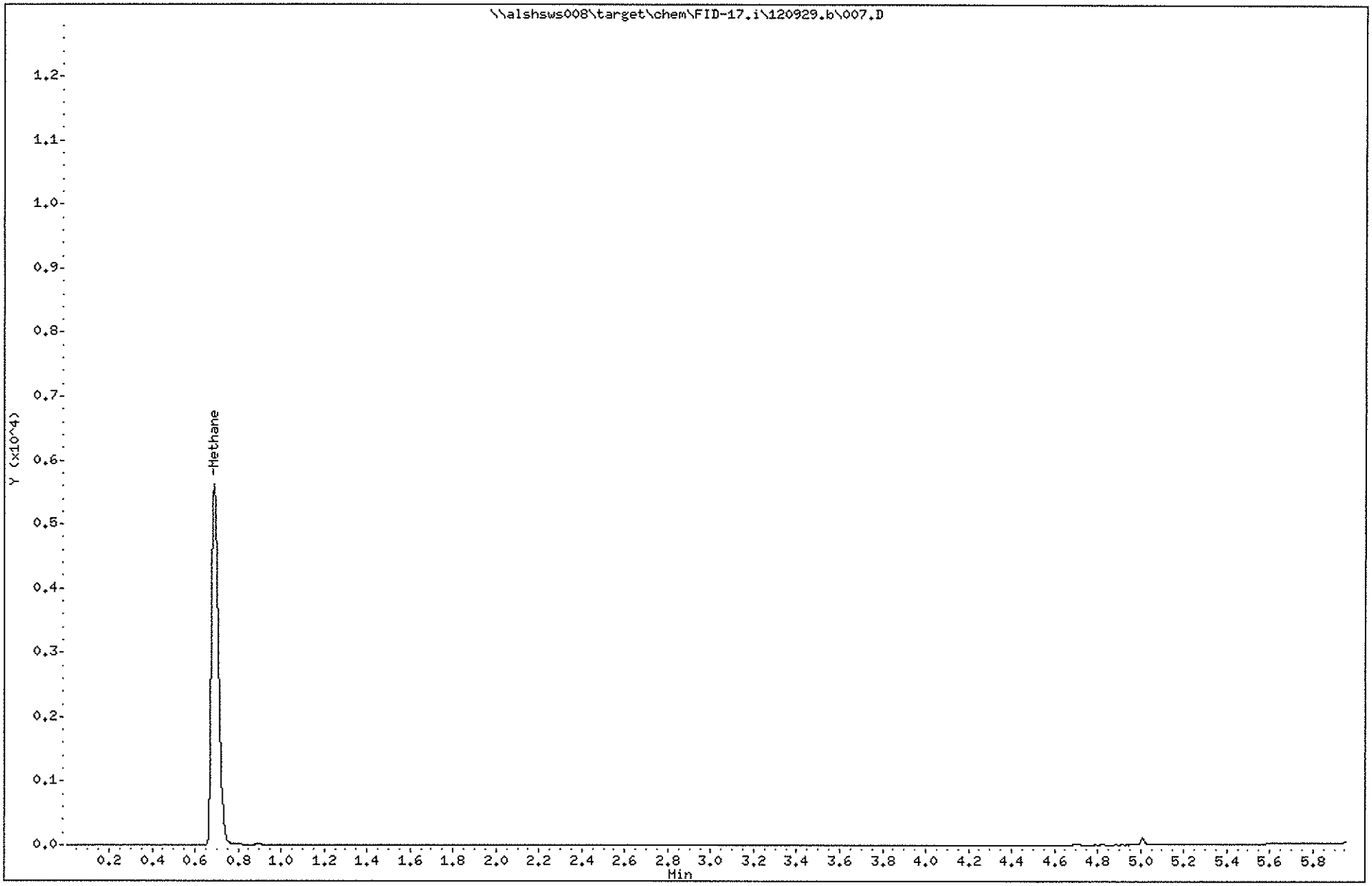
Instrument: FID-17.i

Sample Info: METHANE6;METHANE6;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\008.D
Lab Smp Id: METHANE7 Client Smp ID: METHANE7
Inj Date : 29-SEP-2012 12:01
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE7;METHANE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:54 Cal File: 044.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	30392	598.000	474.358(A)

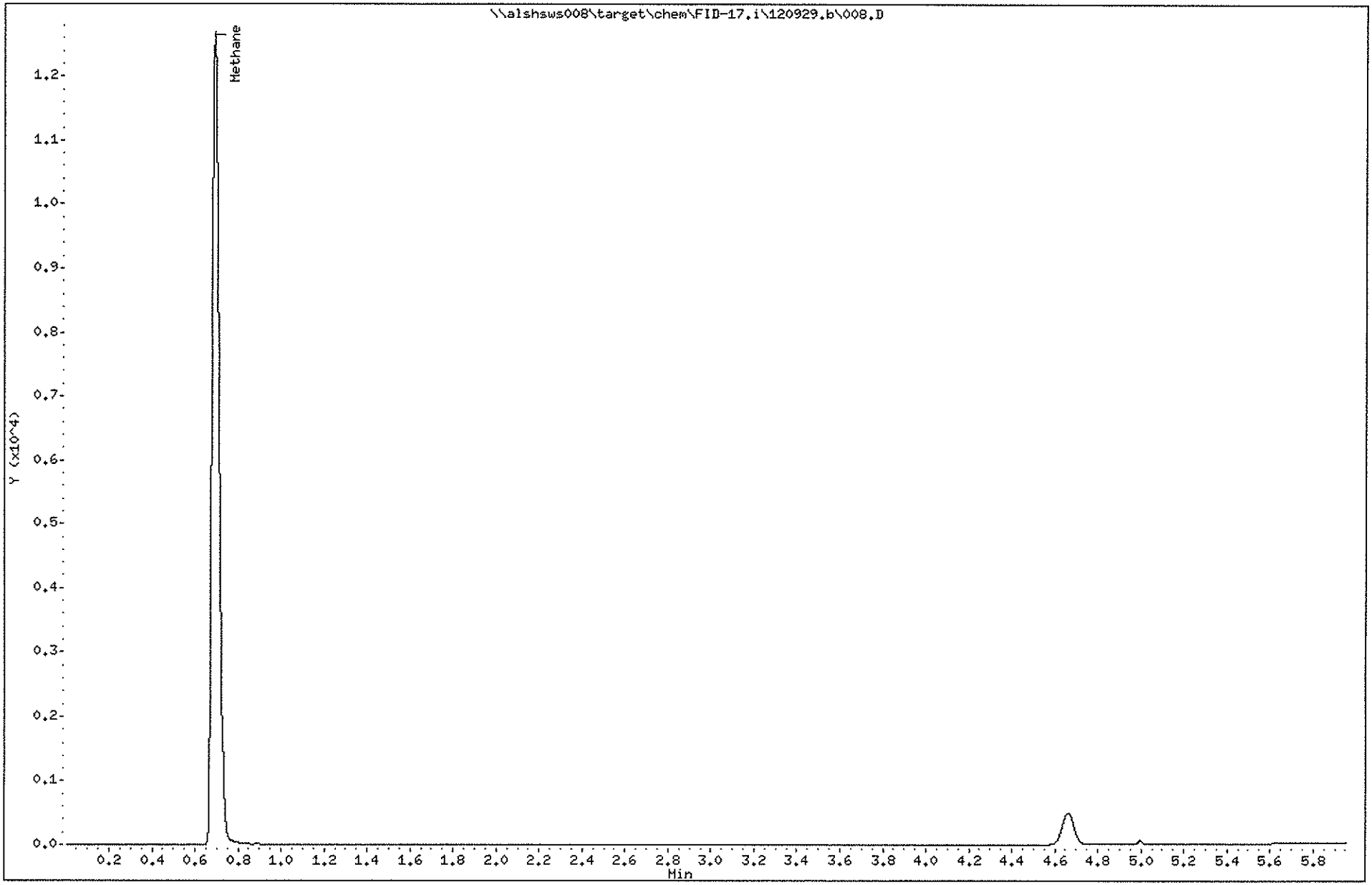
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\008.D
Date : 29-SEP-2012 12:01
Client ID: METHANE7
Sample Info: METHANE7;METHANE7;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\009.D
Lab Smp Id: METHANE8 Client Smp ID: METHANE8
Inj Date : 29-SEP-2012 12:10
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE8;METHANE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 22-SEP-2012 00:03 Cal File: 045.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	181919	2390.00	2925.814(A)

QC Flag Legend

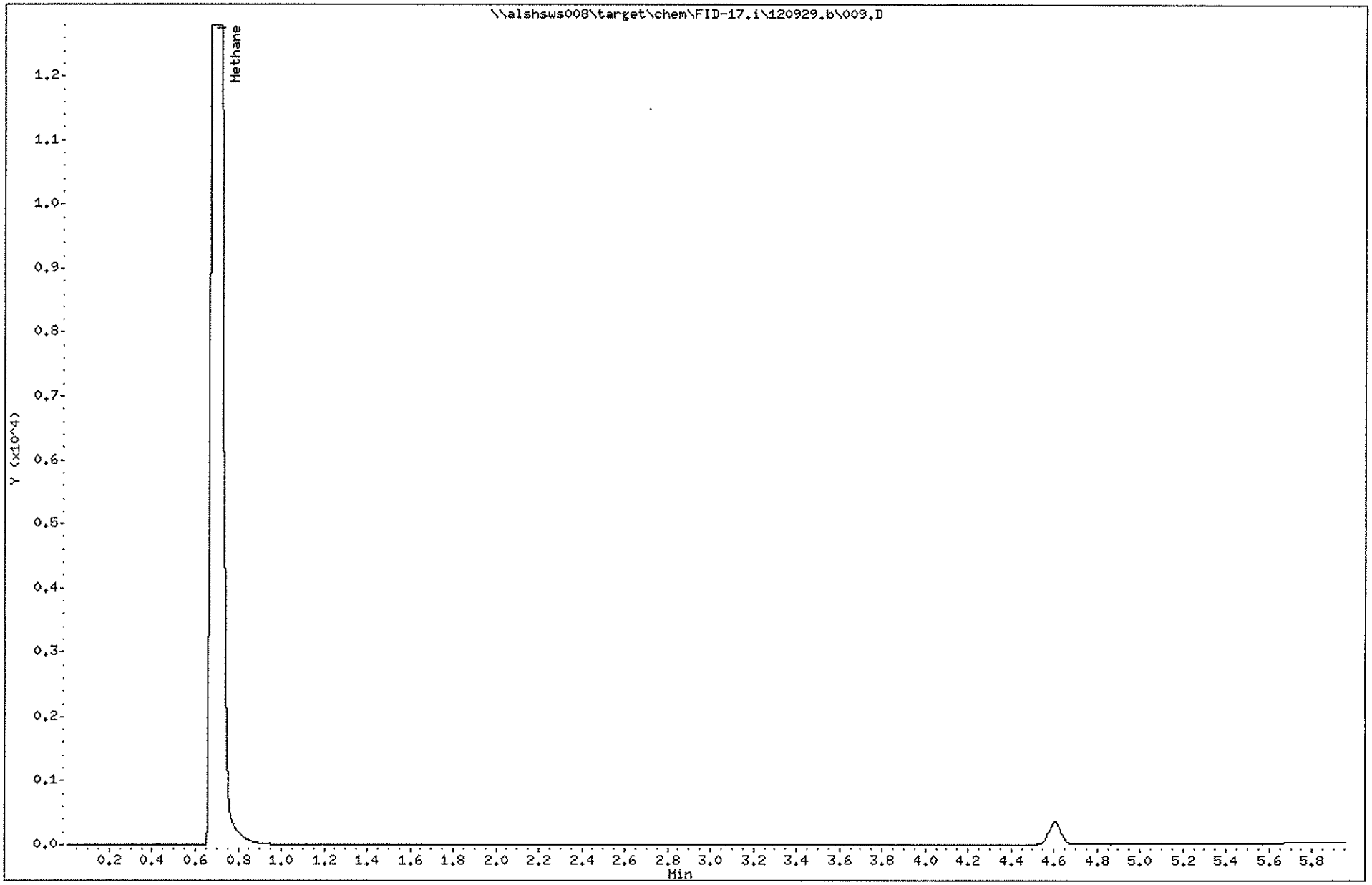
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\009.D
Date : 29-SEP-2012 12:10
Client ID: METHANE8
Sample Info: METHANE8;METHANE8;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\010.D
Lab Smp Id: METHANEICV Client Smp ID: METHANEICV
Inj Date : 29-SEP-2012 12:19
Operator : JA Inst ID: FID-17.i
Smp Info : METHANEICV;METHANEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 10 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	16860	239.000	263.768(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

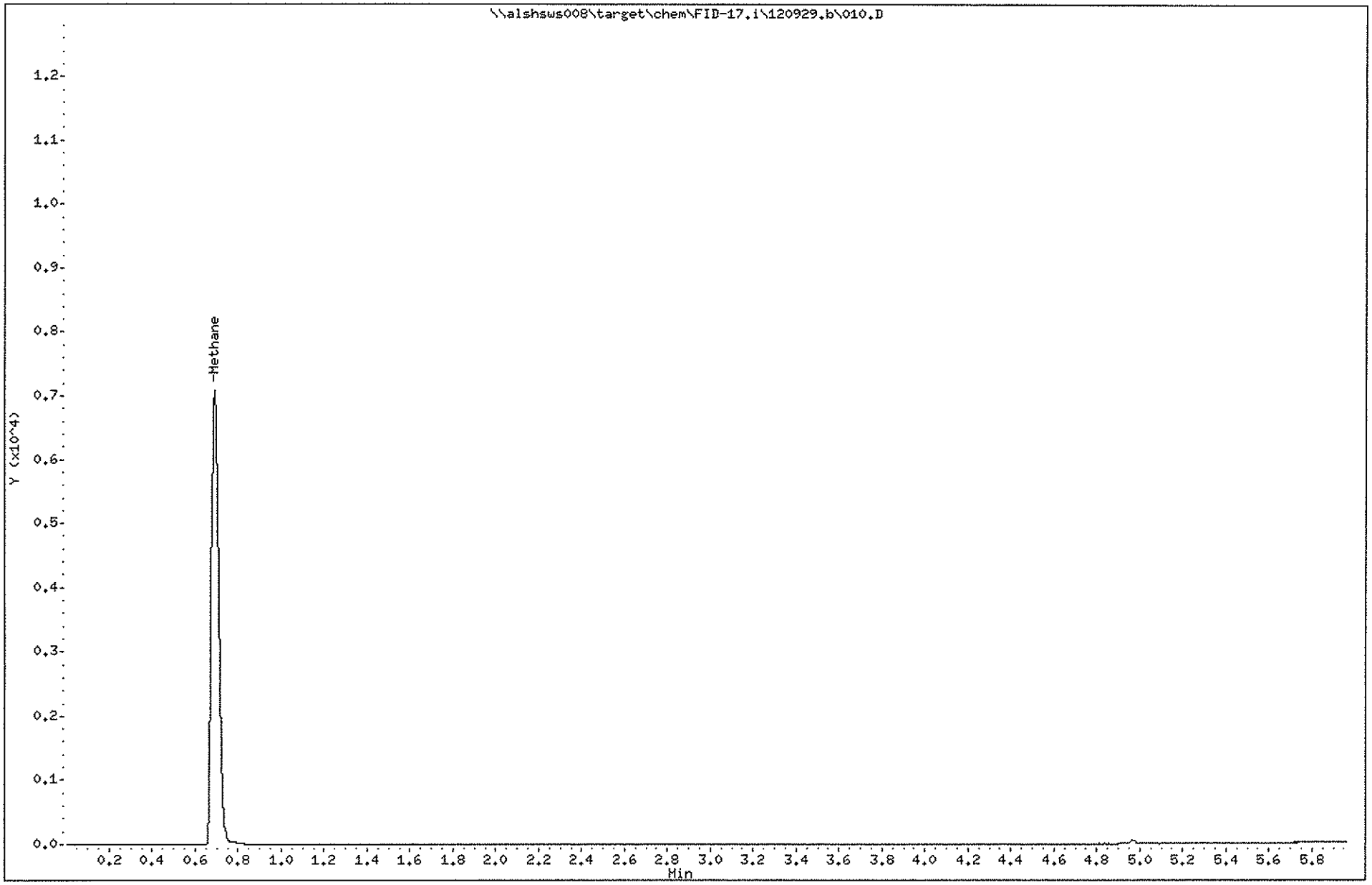
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\010.D
Date : 29-SEP-2012 12:19
Client ID: METHANEICV
Sample Info: METHANEICV;METHANEICV;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\011.D
Lab Smp Id: ETHANE1 Client Smp ID: ETHANE1
Inj Date : 29-SEP-2012 12:28
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE1;ETHANE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 16:28 Cal File: 038.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

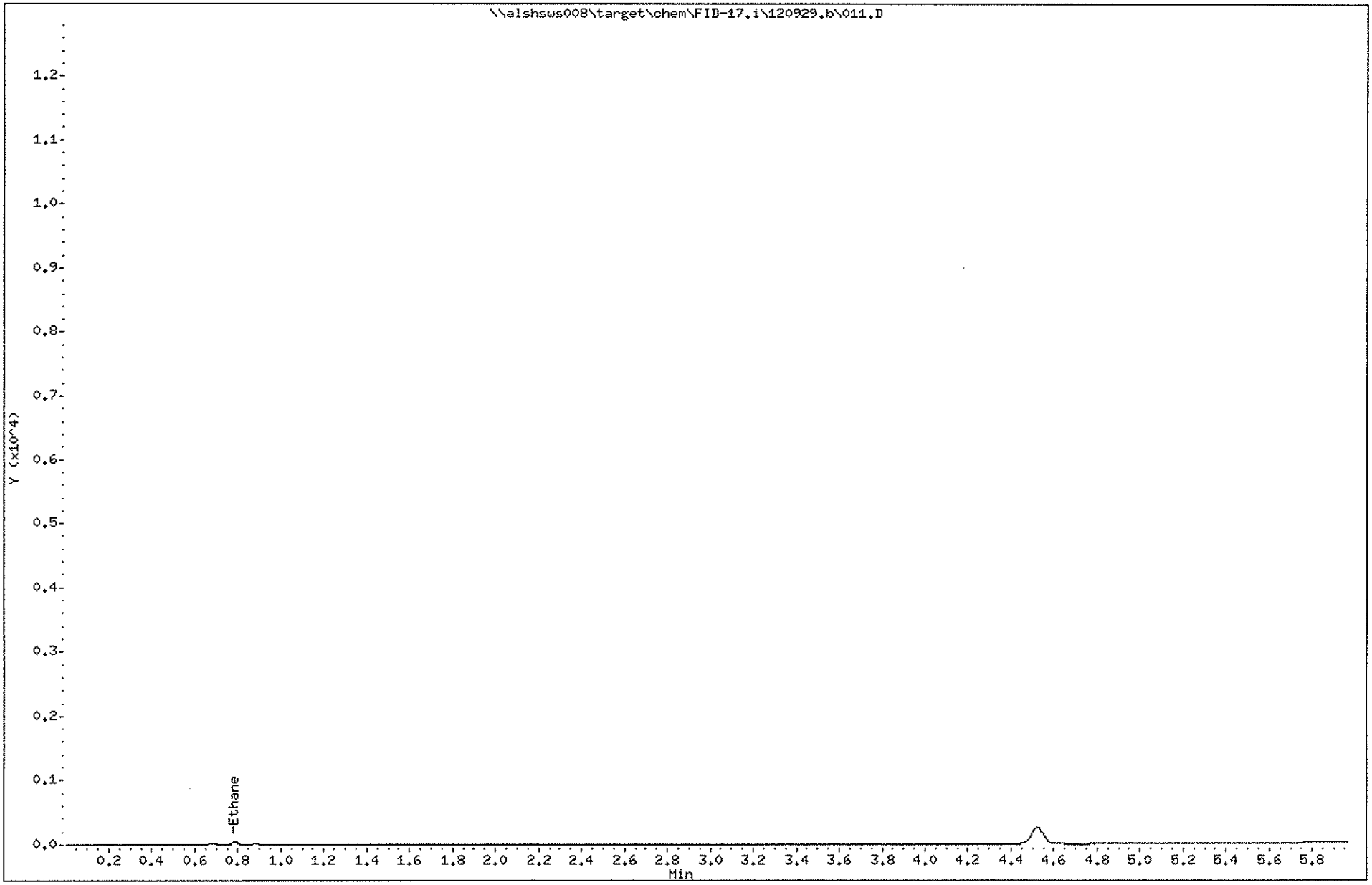
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.786	0.783	0.003	87	1.55000	1.228(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\011.D
Date : 29-SEP-2012 12:28
Client ID: ETHANE1
Sample Info: ETHANE1;ETHANE1;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\012.D
Lab Smp Id: ETHANE2 Client Smp ID: ETHANE2
Inj Date : 29-SEP-2012 12:36
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE2;ETHANE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:09 Cal File: 039.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.786	0.783	0.003	586	7.75000	8.492

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\012.D

Page 2

Date : 29-SEP-2012 12:36

Client ID: ETHANE2

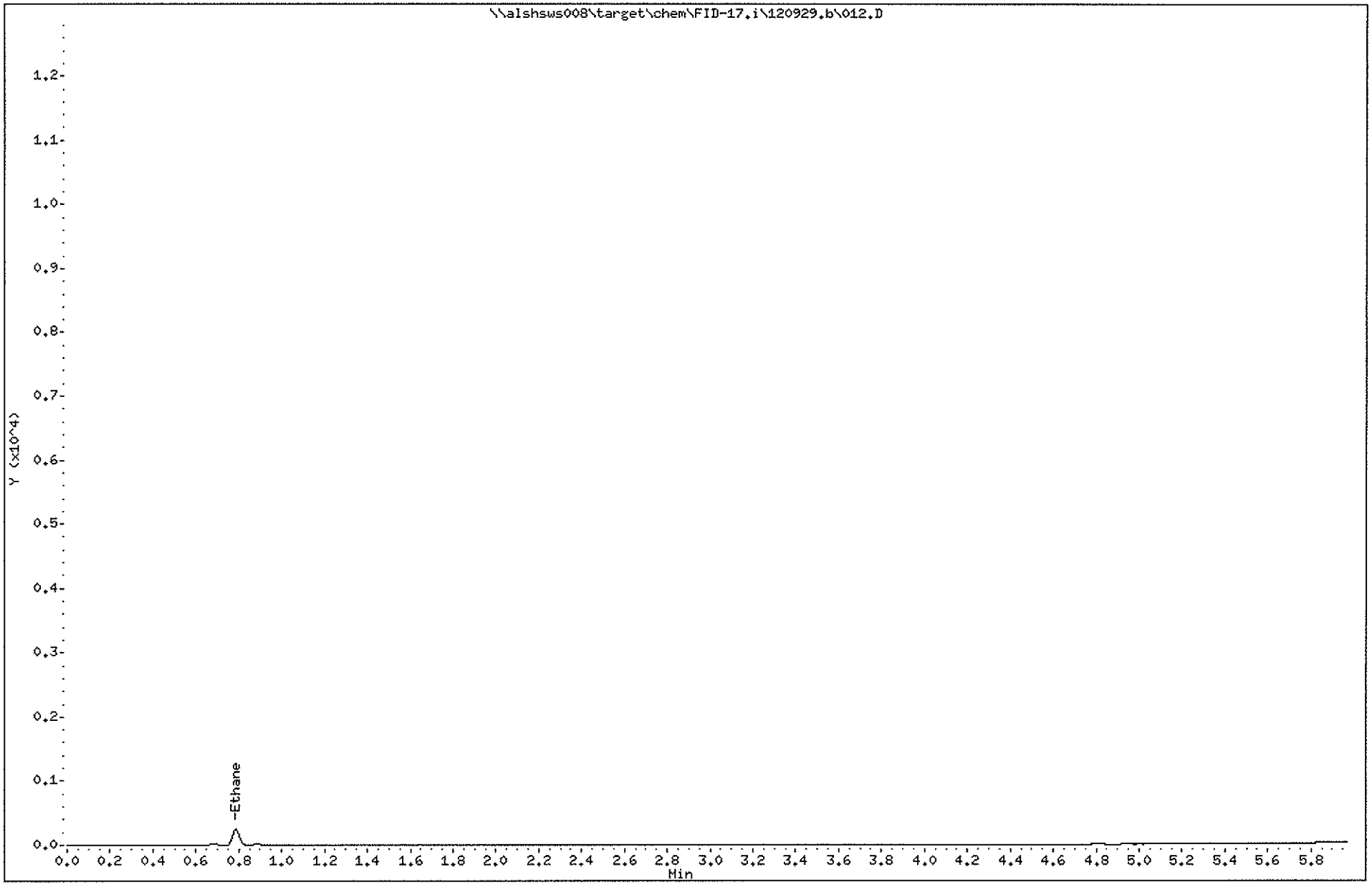
Instrument: FID-17.i

Sample Info: ETHANE2;ETHANE2;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\013.D
Lab Smp Id: ETHANE3 Client Smp ID: ETHANE3
Inj Date : 29-SEP-2012 12:45
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE3;ETHANE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:18 Cal File: 040.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

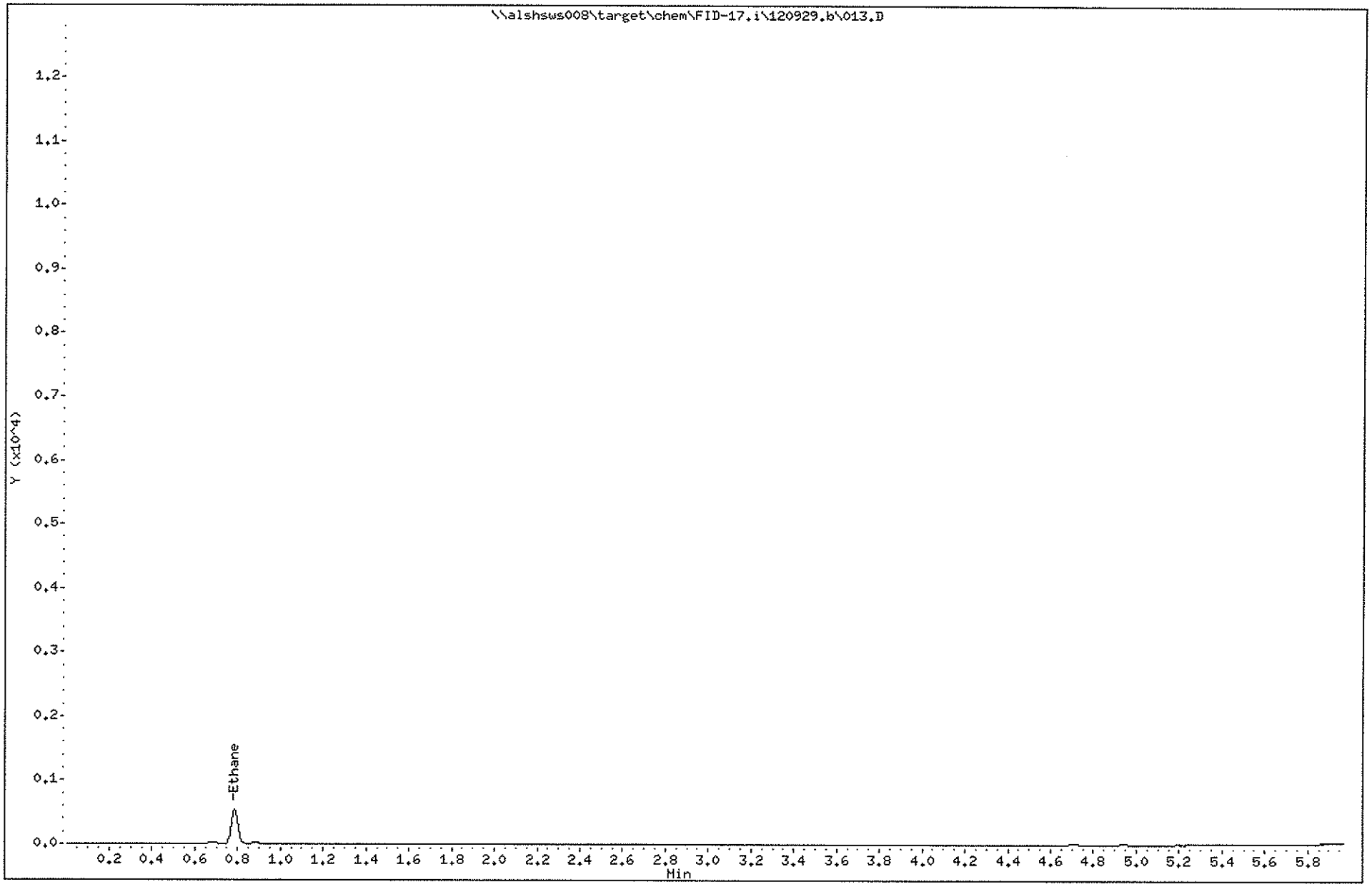
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.786	0.783	0.003	1225	15.5000	17.753

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\013.D
Date : 29-SEP-2012 12:45
Client ID: ETHANE3
Sample Info: ETHANE3;ETHANE3;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\014.D
Lab Smp Id: ETHANE4 Client Smp ID: ETHANE4
Inj Date : 29-SEP-2012 12:54
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE4;ETHANE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:27 Cal File: 041.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	2013	31.0000	29.174

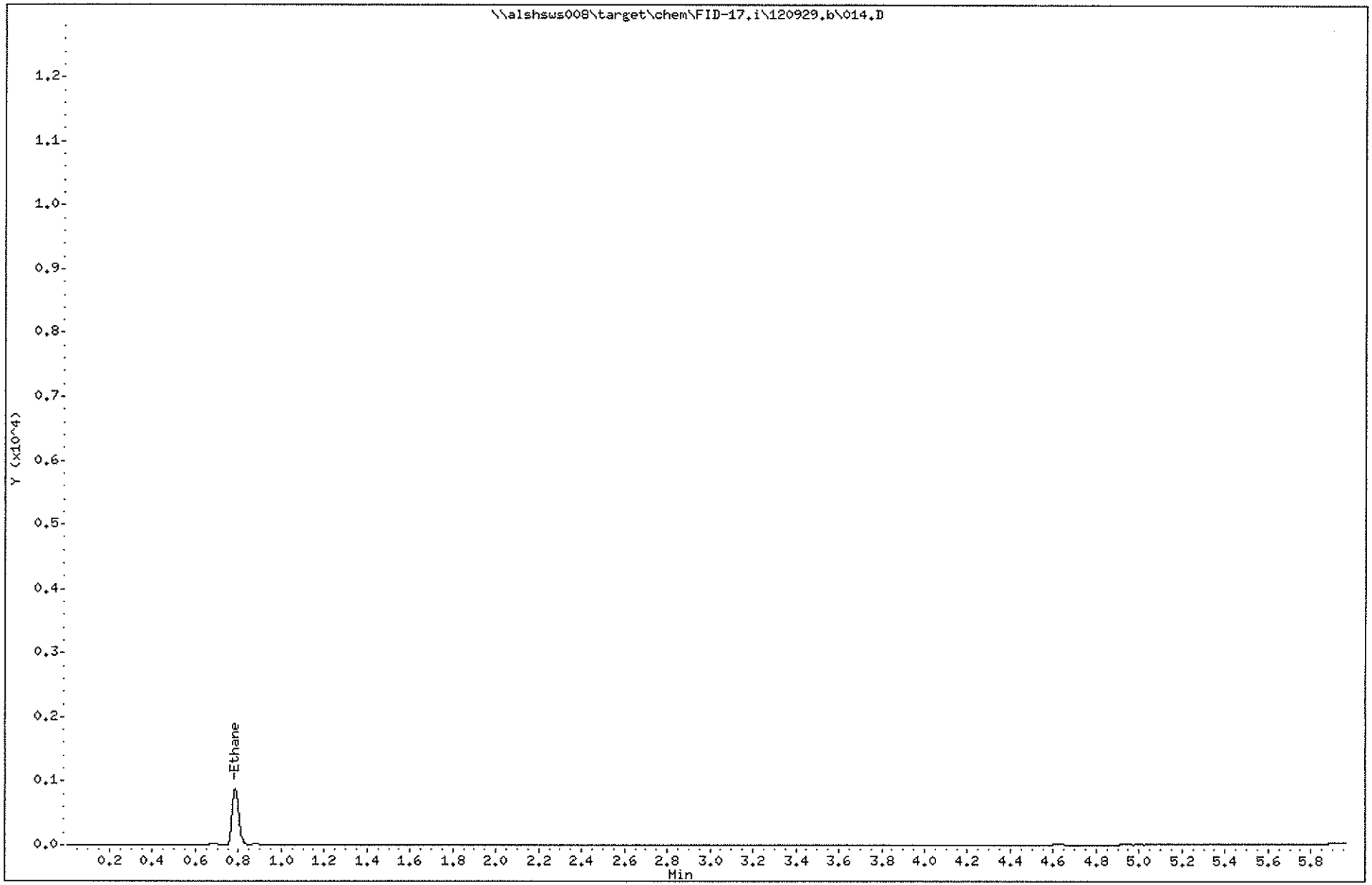
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\014.D
Date : 29-SEP-2012 12:54
Client ID: ETHANE4
Sample Info: ETHANE4;ETHANE4;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\015.D
Lab Smp Id: ETHANE5 Client Smp ID: ETHANE5
Inj Date : 29-SEP-2012 13:03
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE5;ETHANE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:36 Cal File: 042.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

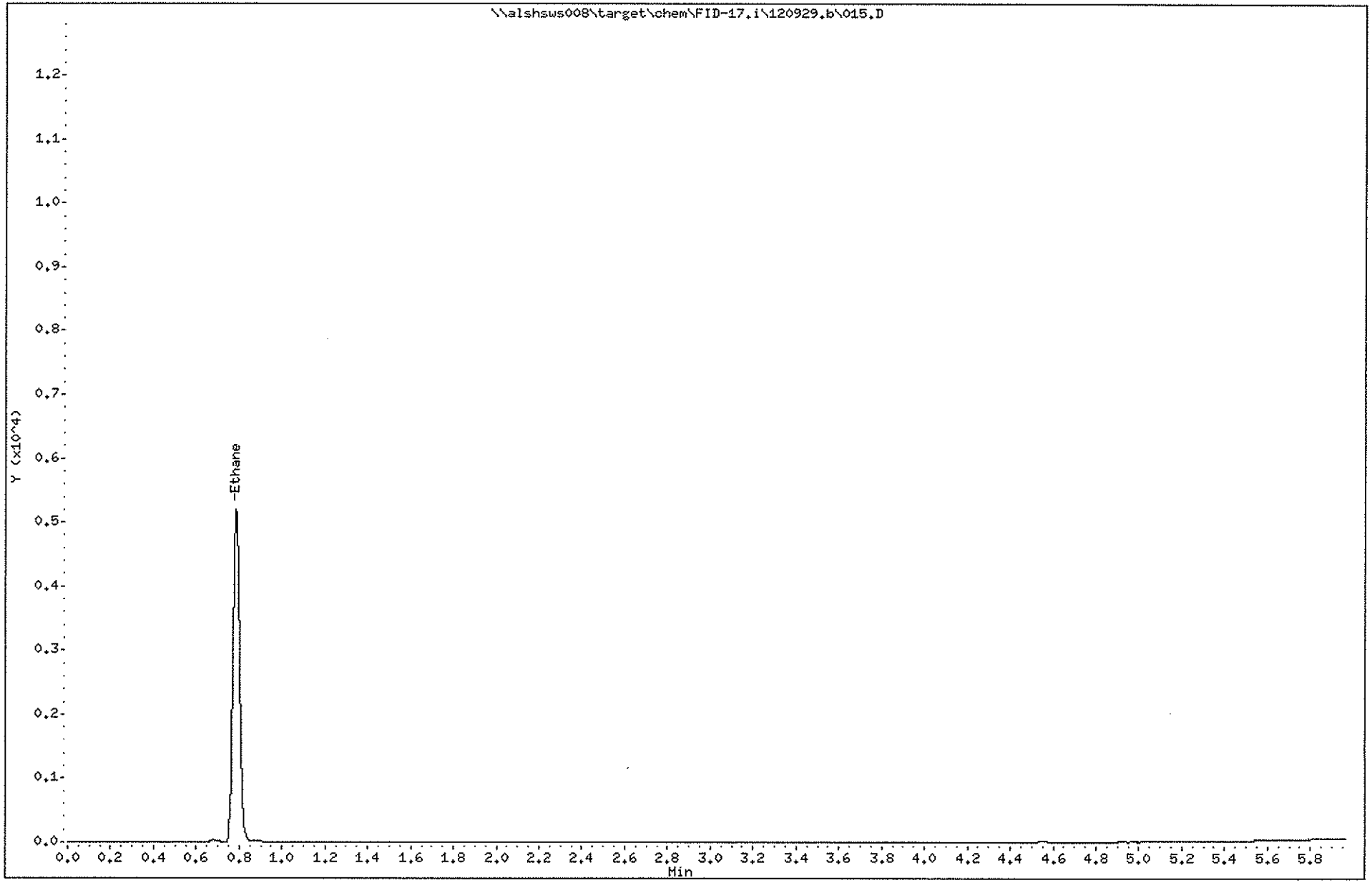
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	11648	155.000	168.813(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\015.D
Date : 29-SEP-2012 13:03
Client ID: ETHANE5
Sample Info: ETHANE5;ETHANE5;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\016.D
Lab Smp Id: ETHANE6 Client Smp ID: ETHANE6
Inj Date : 29-SEP-2012 13:12
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE6;ETHANE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:45 Cal File: 043.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	20772	310.000	301.046(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\016.D

Page 2

Date : 29-SEP-2012 13:12

Client ID: ETHANE6

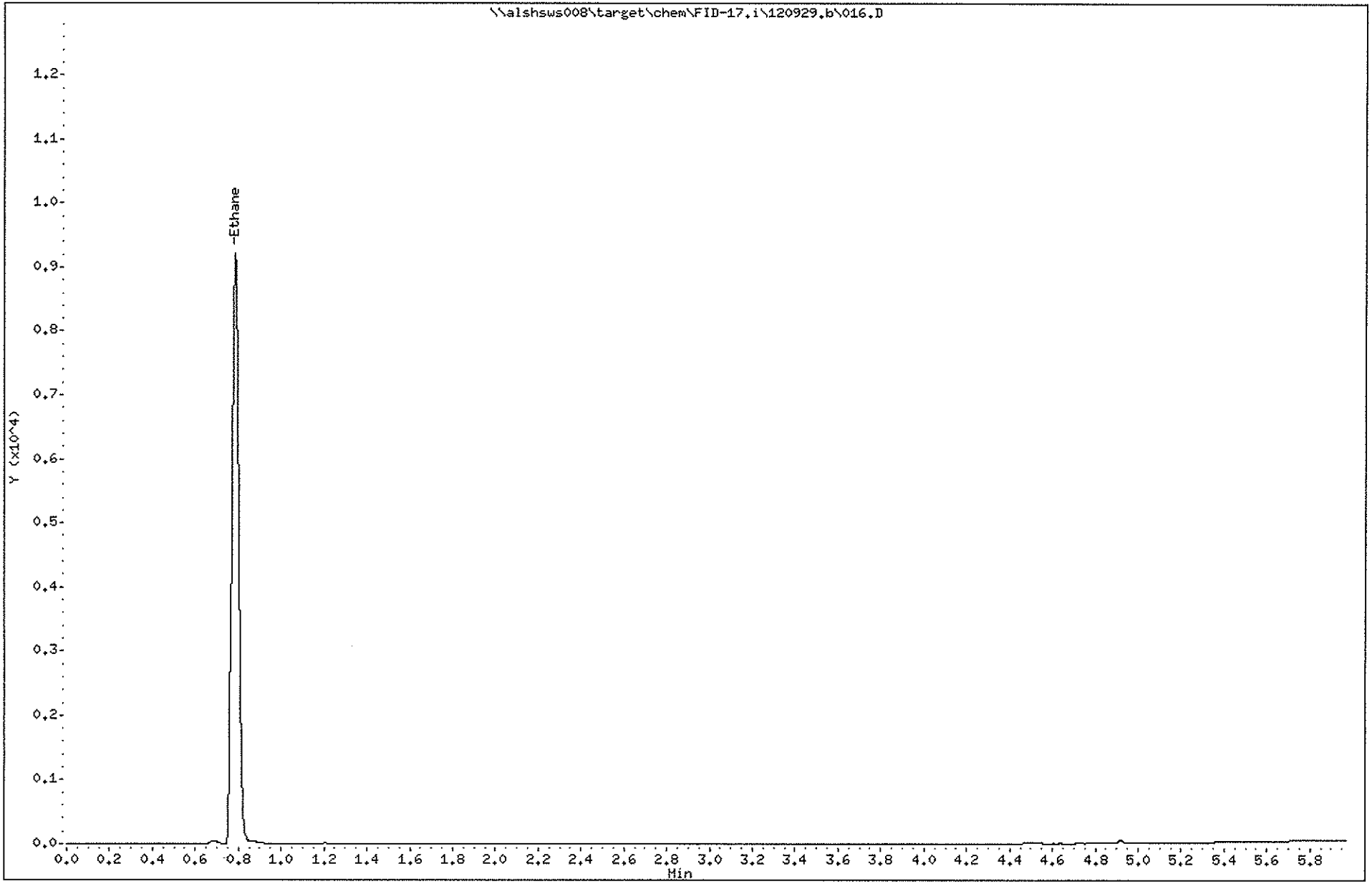
Instrument: FID-17.i

Sample Info: ETHANE6;ETHANE6;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\017.D
Lab Smp Id: ETHANE7 Client Smp ID: ETHANE7
Inj Date : 29-SEP-2012 13:21
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE7;ETHANE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:54 Cal File: 044.D
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	45831	775.000	664.223(A)

QC Flag Legend

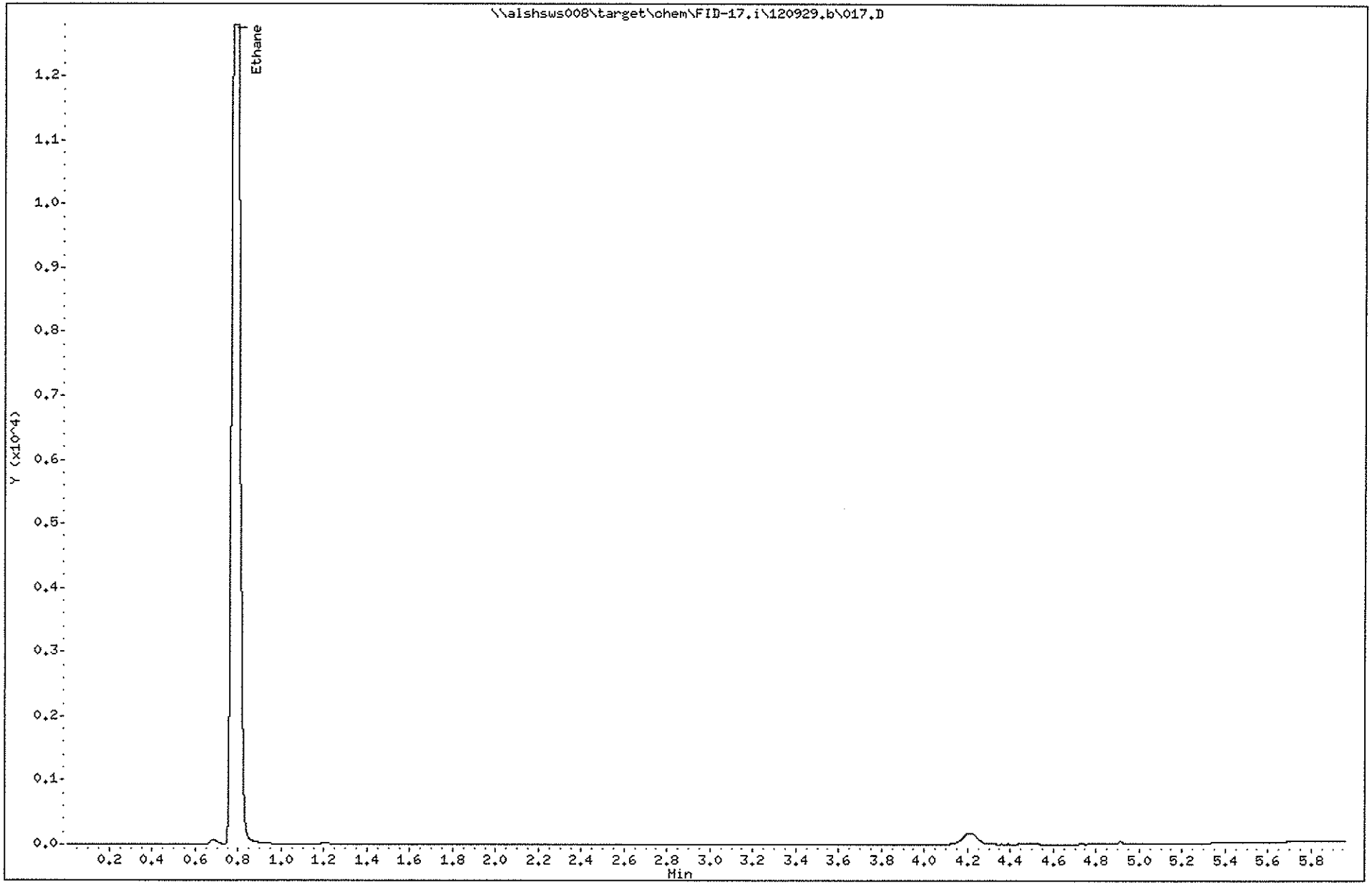
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\017.D
Date : 29-SEP-2012 13:21
Client ID: ETHANE7
Sample Info: ETHANE7;ETHANE7;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\018.D
Lab Smp Id: ETHANE8 Client Smp ID: ETHANE8
Inj Date : 29-SEP-2012 13:30
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE8;ETHANE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 22-SEP-2012 00:03 Cal File: 045.D
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	232479	3100.00	3369.294(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

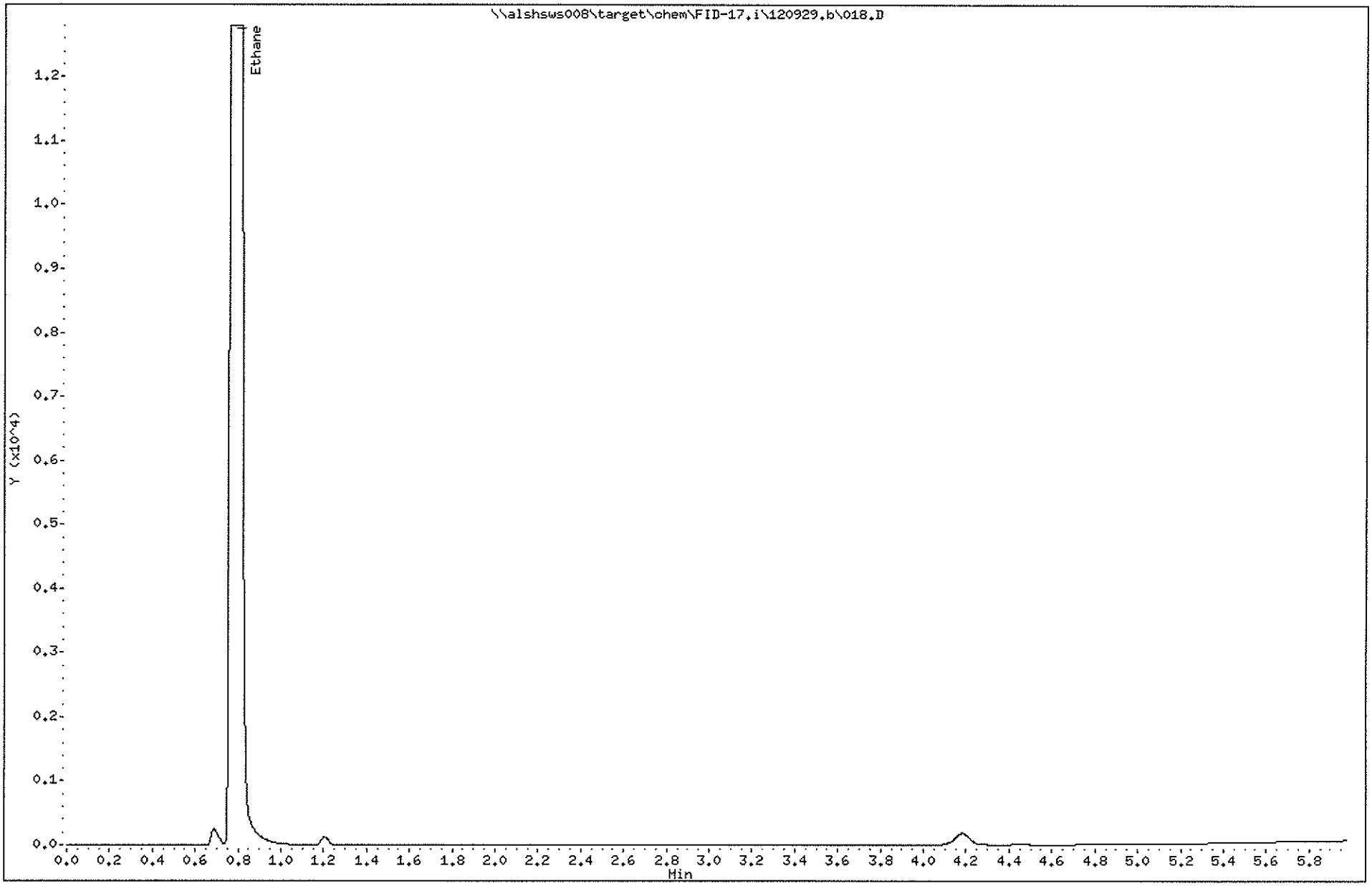
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\018.D
Date : 29-SEP-2012 13:30
Client ID: ETHANE8
Sample Info: ETHANE8;ETHANE8;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\019.D
Lab Smp Id: ETHANEICV Client Smp ID: ETHANEICV
Inj Date : 29-SEP-2012 13:39
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANEICV;ETHANEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 19 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	22339	310.000	323.756(A)

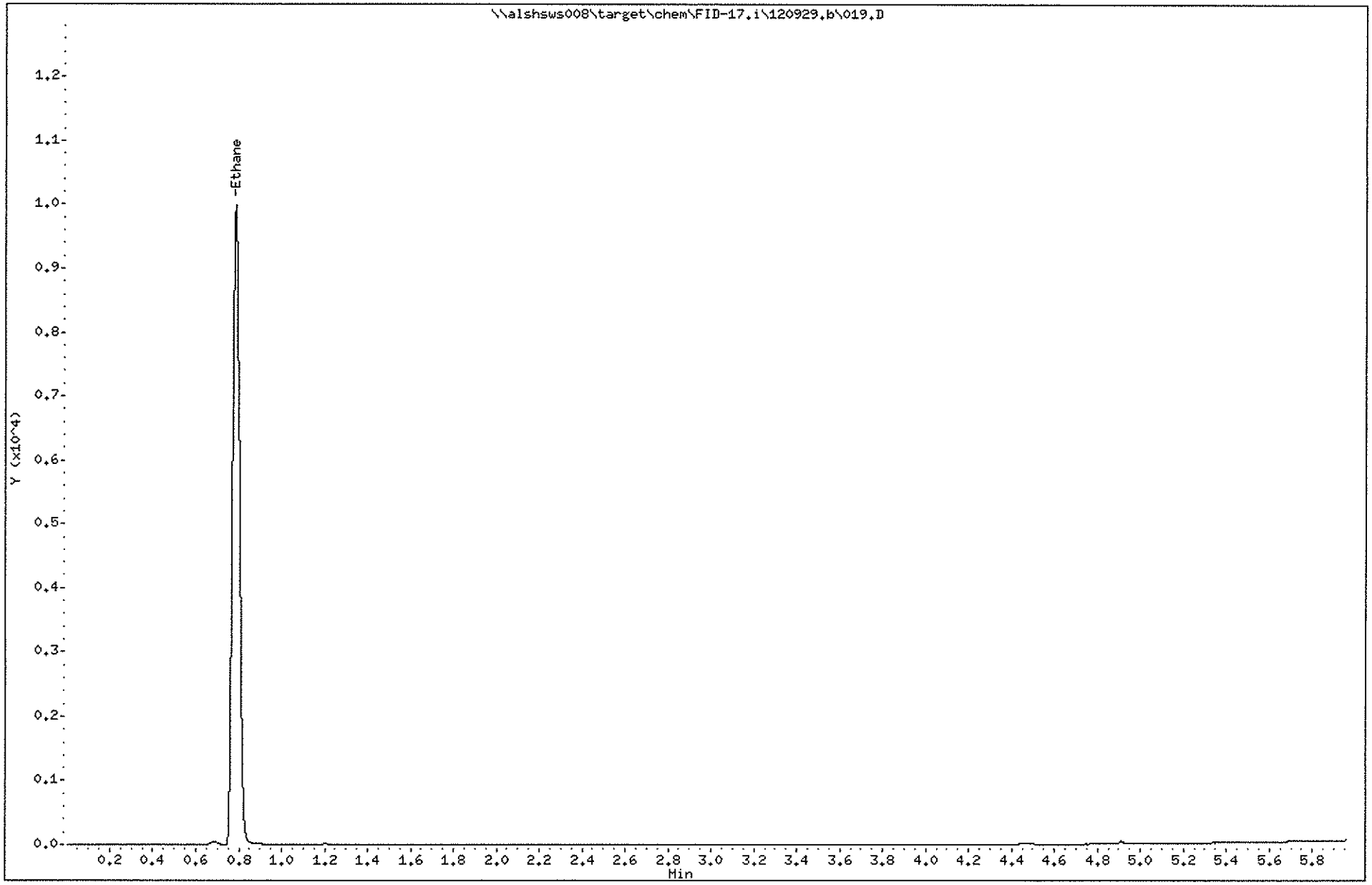
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\019.D
Date : 29-SEP-2012 13:39
Client ID: ETHANEICV
Sample Info: ETHANEICV;ETHANEICV;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\020.D
Lab Smp Id: ETHENE1 Client Smp ID: ETHENE1
Inj Date : 29-SEP-2012 13:48
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE1;ETHENE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:00 Cal File: 038.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

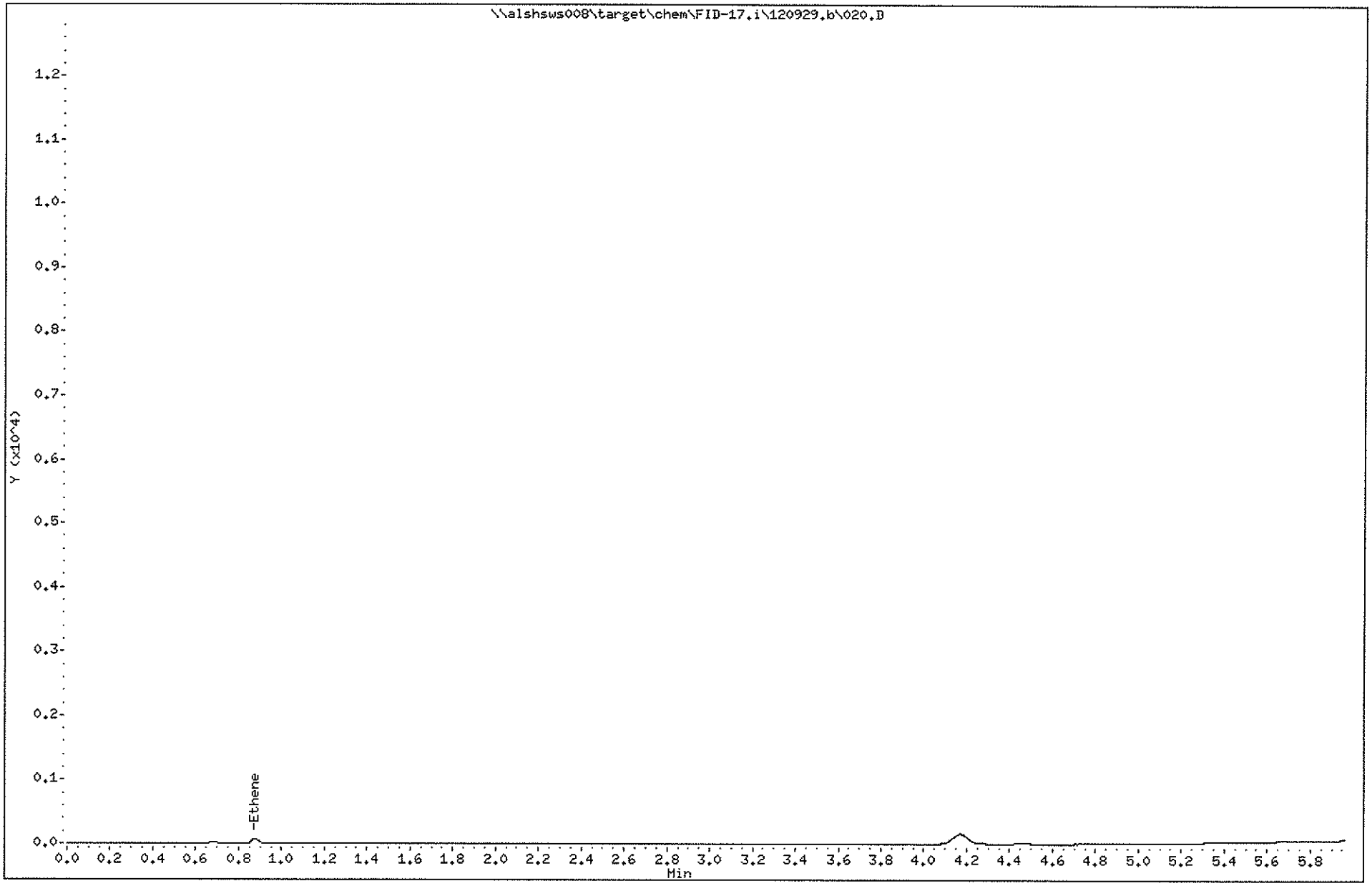
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.876	0.873	0.003	144	1.42000	1.585(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\020.D
Date : 29-SEP-2012 13:48
Client ID: ETHENE1
Sample Info: ETHENE1;ETHENE1;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\021.D
Lab Smp Id: ETHENE2 Client Smp ID: ETHENE2
Inj Date : 29-SEP-2012 13:57
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE2;ETHENE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:09 Cal File: 039.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.876	0.873	0.003	608	7.10000	5.995(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\021.D

Date : 29-SEP-2012 13:57

Client ID: ETHENE2

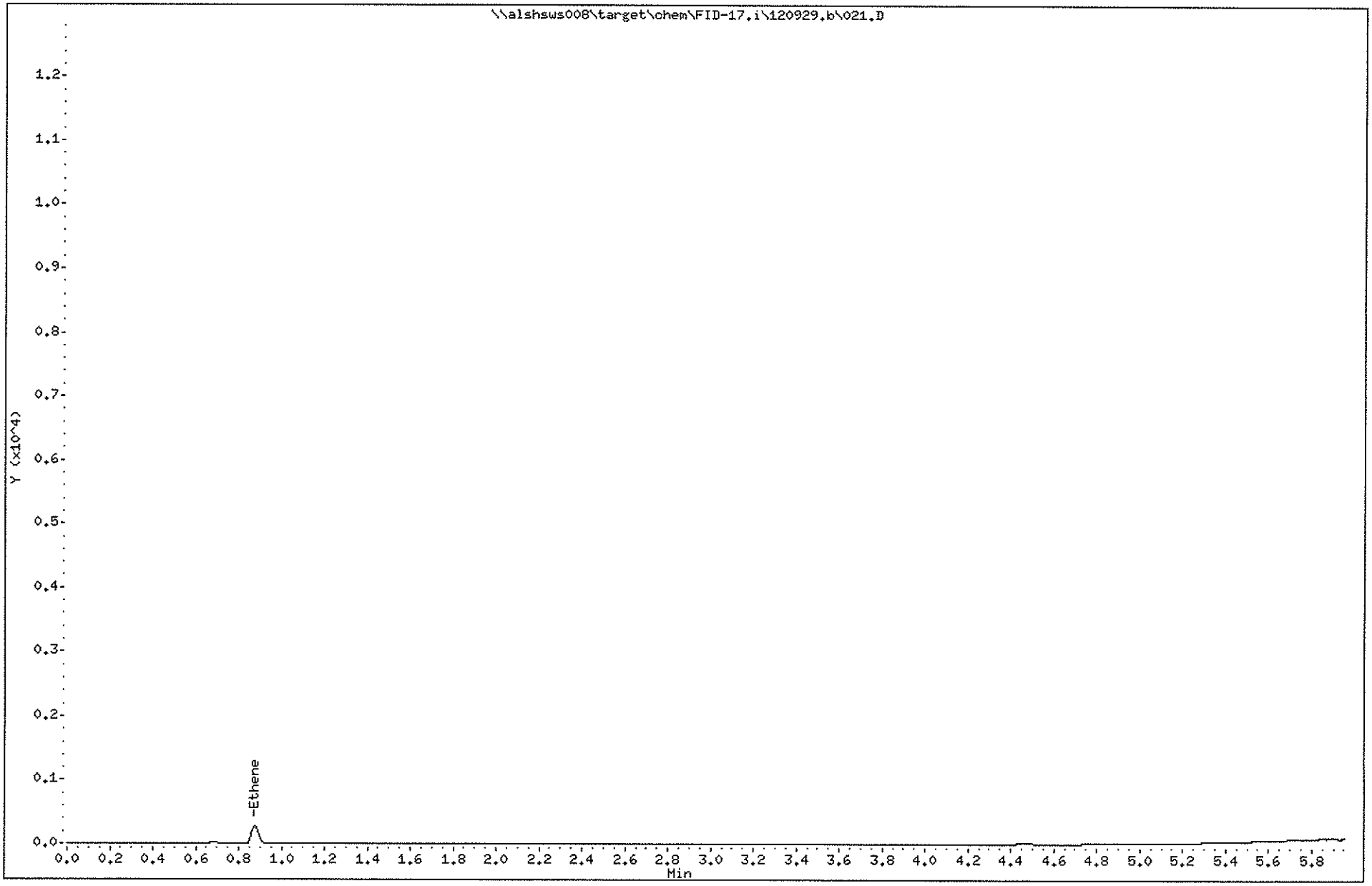
Sample Info: ETHENE2;ETHENE2;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\022.D
Lab Smp Id: ETHENE3 Client Smp ID: ETHENE3
Inj Date : 29-SEP-2012 14:06
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE3;ETHENE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:18 Cal File: 040.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.876	0.873	0.003	1242	14.2000	13.280(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

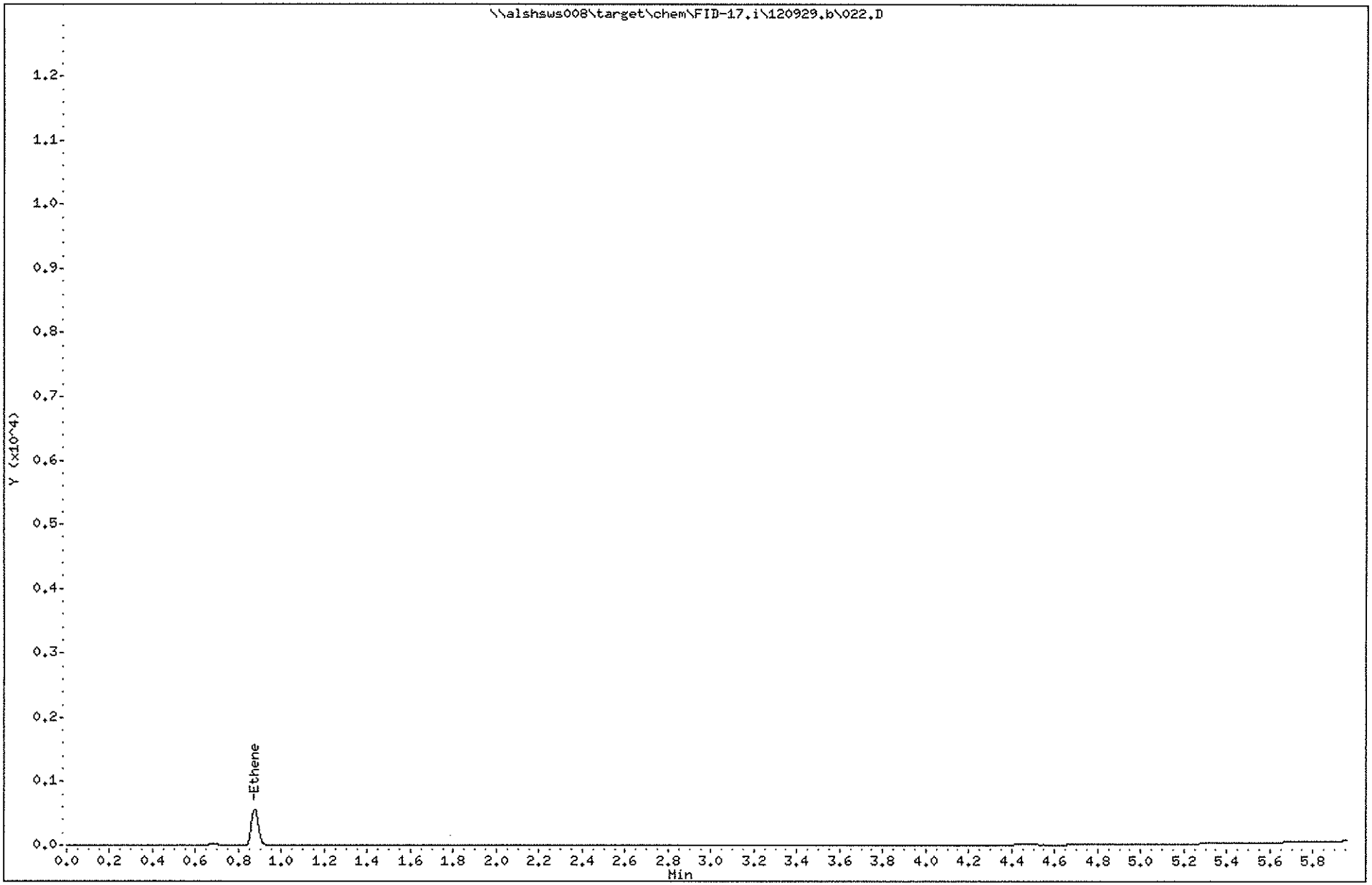
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\022.D
Date : 29-SEP-2012 14:06
Client ID: ETHENE3
Sample Info: ETHENE3;ETHENE3;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\023.D
Lab Smp Id: ETHENE4 Client Smp ID: ETHENE4
Inj Date : 29-SEP-2012 14:14
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE4;ETHENE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:27 Cal File: 041.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	2597	28.3000	28.381(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\023.D

Date : 29-SEP-2012 14:14

Client ID: ETHENE4

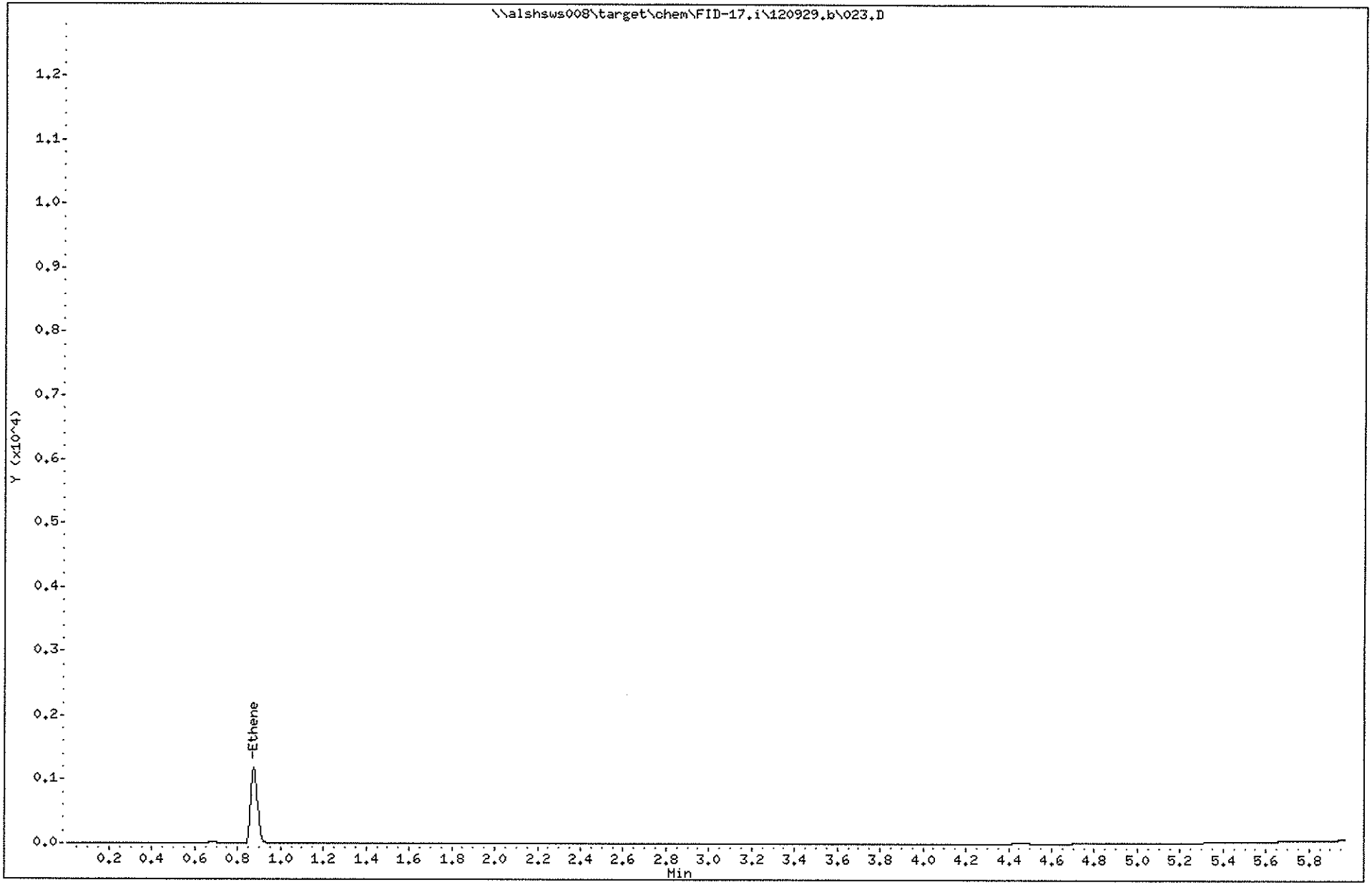
Sample Info: ETHENE4;ETHENE4;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\024.D
Lab Smp Id: ETHENE5 Client Smp ID: ETHENE5
Inj Date : 29-SEP-2012 14:23
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE5;ETHENE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:36 Cal File: 042.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	11777	141.500	128.614(A)

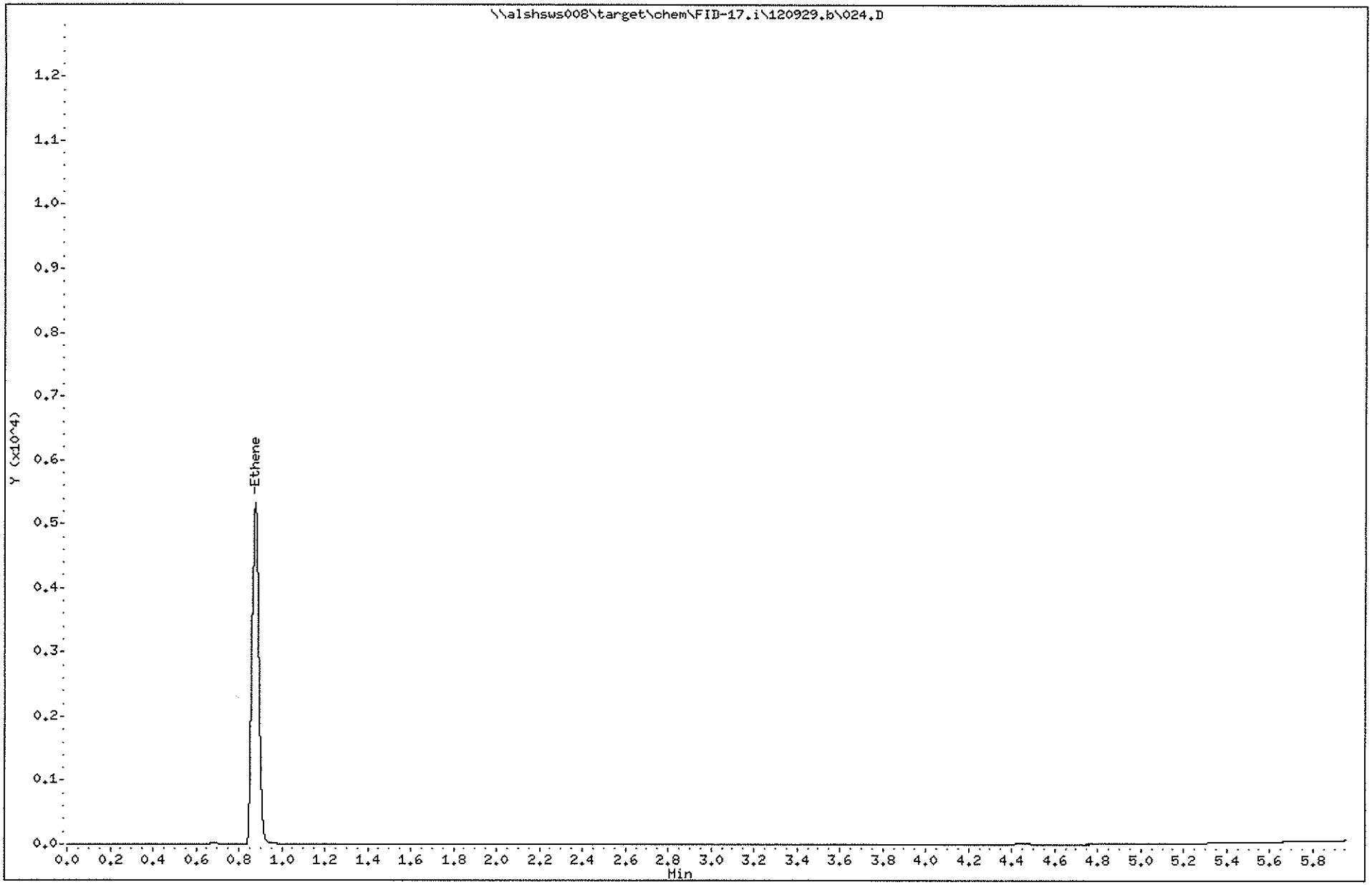
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\024.D
Date : 29-SEP-2012 14:23
Client ID: ETHENE5
Sample Info: ETHENE5;ETHENE5;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\025.D
Lab Smp Id: ETHENE6 Client Smp ID: ETHENE6
Inj Date : 29-SEP-2012 14:32
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE6;ETHENE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:45 Cal File: 043.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	23195	283.000	258.006(A)

QC Flag Legend

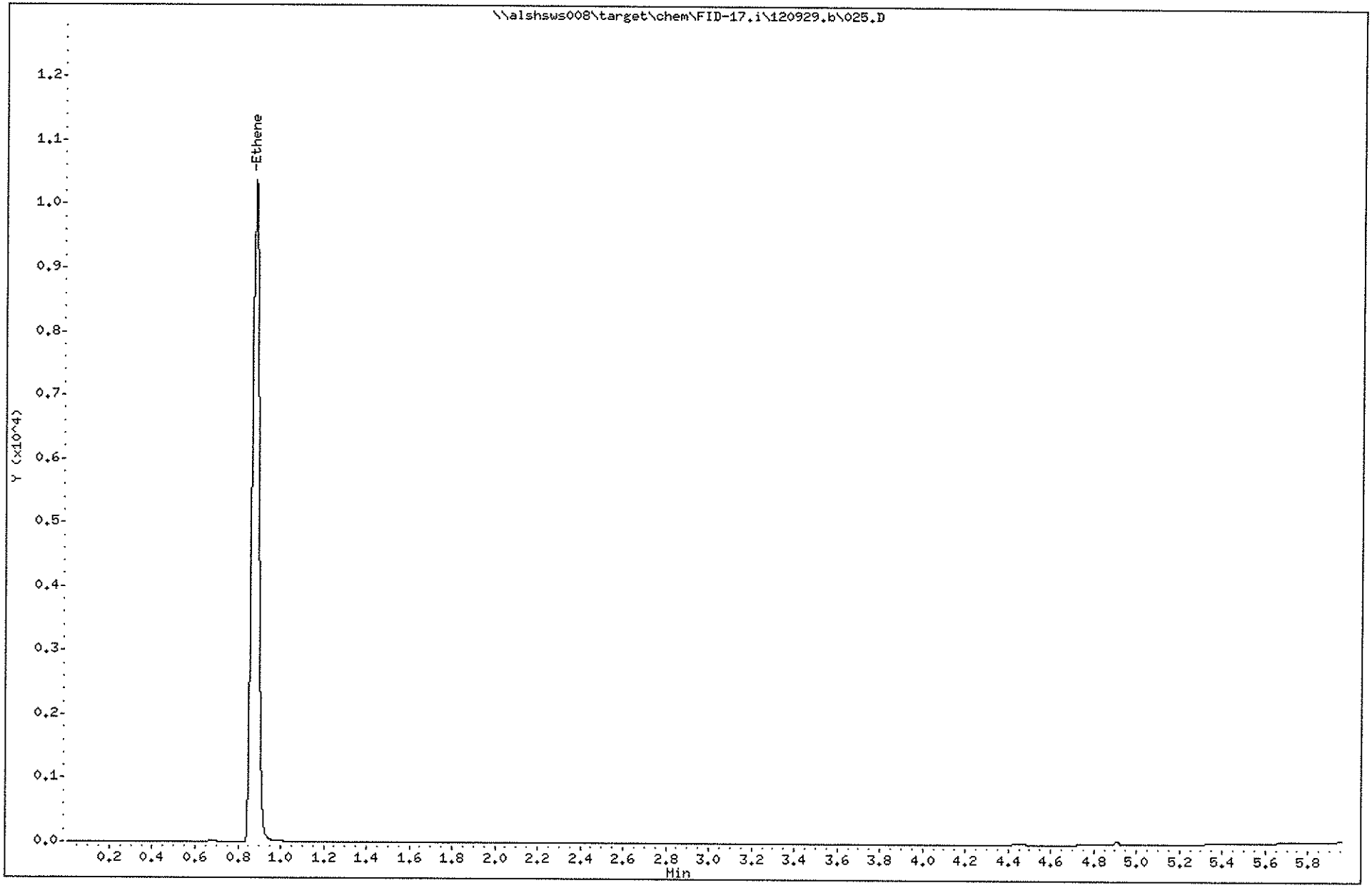
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\025.D
Date : 29-SEP-2012 14:32
Client ID: ETHENE6
Sample Info: ETHENE6;ETHENE6;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\026.D
Lab Smp Id: ETHENE7 Client Smp ID: ETHENE7
Inj Date : 29-SEP-2012 14:41
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE7;ETHENE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 21-SEP-2012 23:54 Cal File: 044.D
Als bottle: 26 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	55266	707.000	623.928(A)

QC Flag Legend

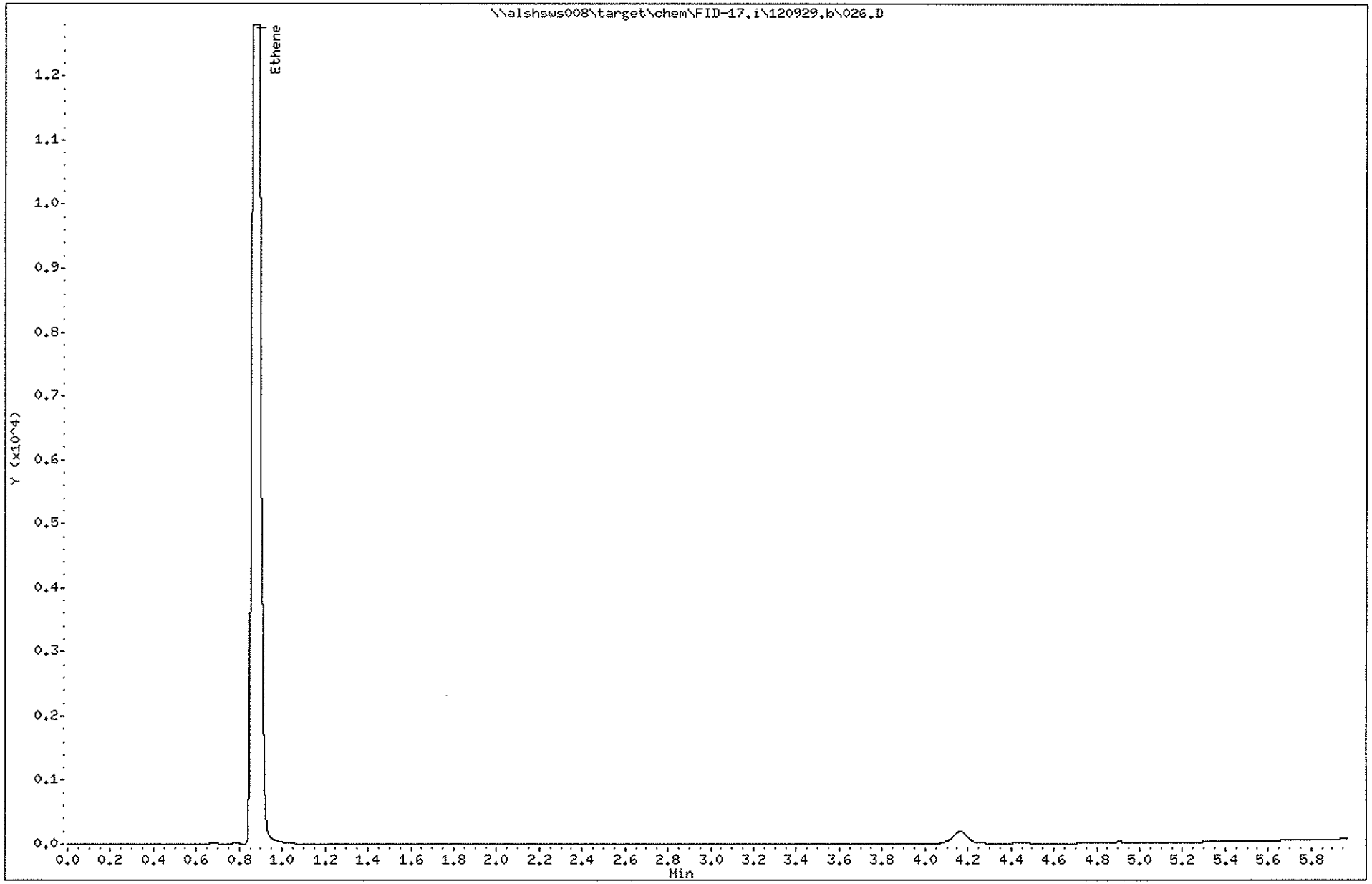
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\026.D
Date : 29-SEP-2012 14:41
Client ID: ETHENE7
Sample Info: ETHENE7;ETHENE7;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\027.D
Lab Smp Id: ETHENE8 Client Smp ID: ETHENE8
Inj Date : 29-SEP-2012 14:50
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE8;ETHENE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 22-SEP-2012 00:03 Cal File: 045.D
Als bottle: 27 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	331295	2828.00	3646.702(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

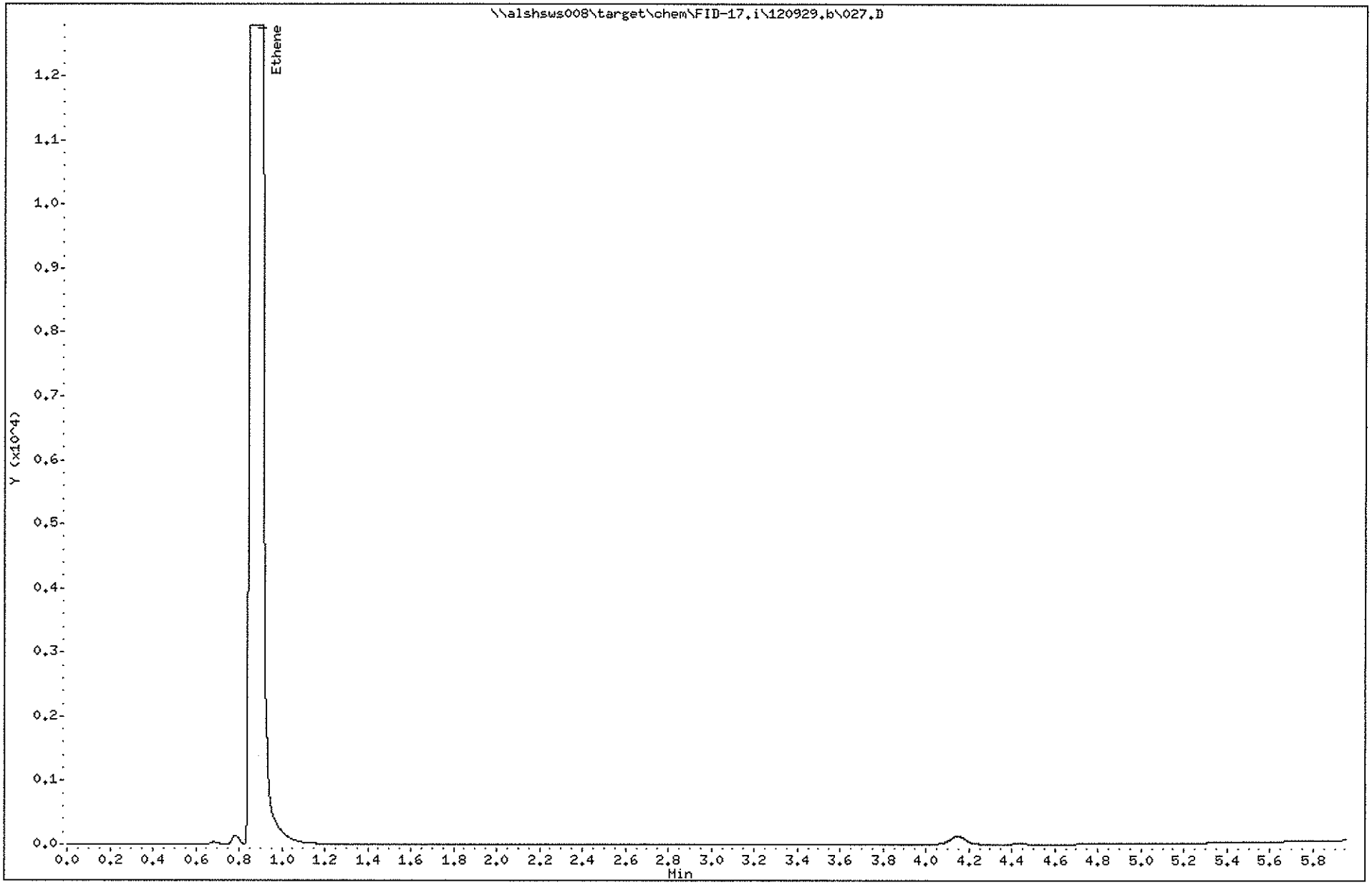
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\027.D
Date : 29-SEP-2012 14:50
Client ID: ETHENE8
Sample Info: ETHENE8;ETHENE8;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\028.D
Lab Smp Id: ETHENEICV Client Smp ID: ETHENEICV
Inj Date : 29-SEP-2012 14:59
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENEICV;ETHENEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 28 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	22907	283.000	251.487(A)

QC Flag Legend

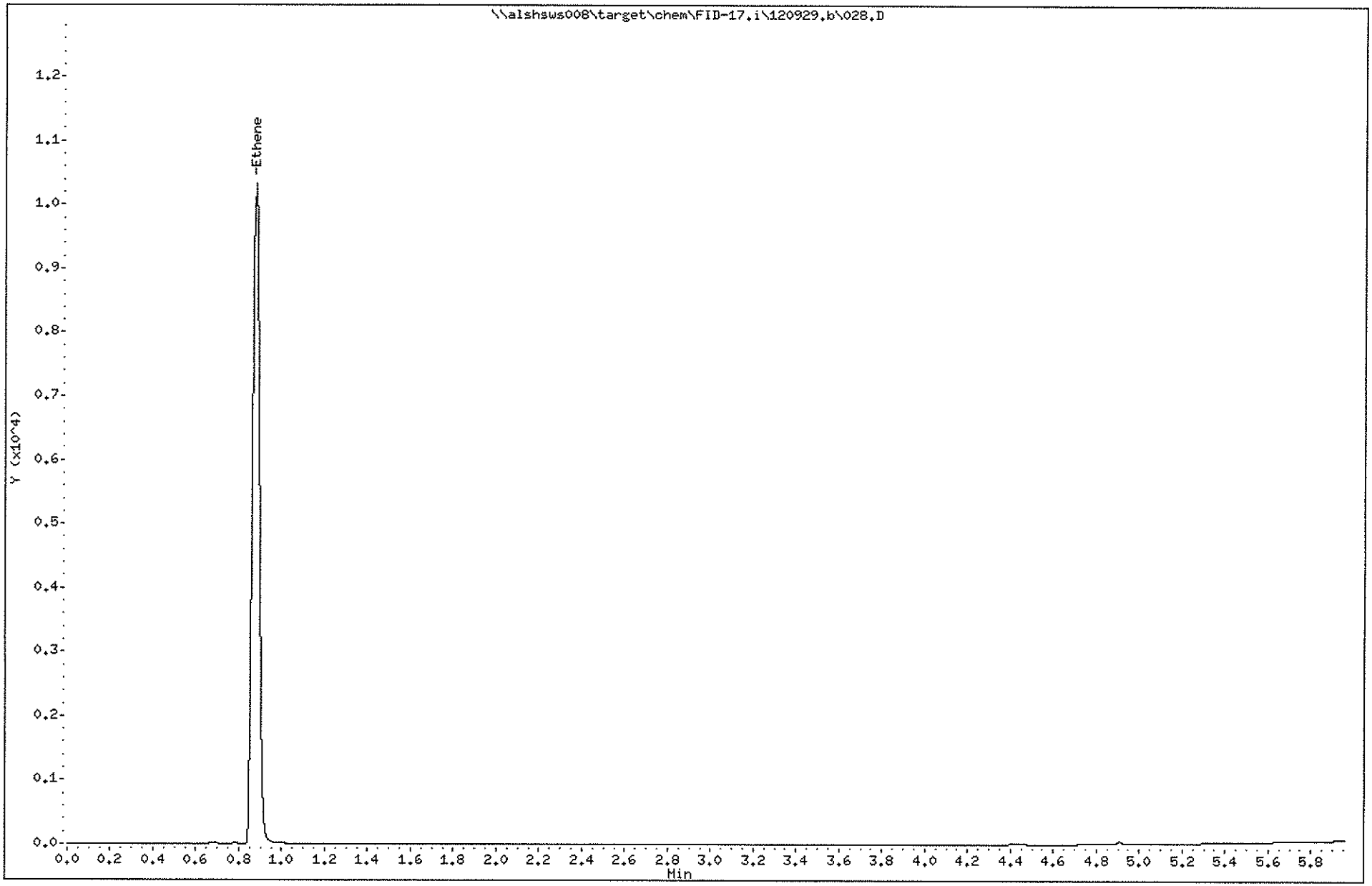
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\028.D
Date : 29-SEP-2012 14:59
Client ID: ETHENEICV
Sample Info: ETHENEICV;ETHENEICV;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\038.D
Lab Smp Id: ACETYLENE1 Client Smp ID: ACETYLENE1
Inj Date : 29-SEP-2012 16:28
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE1;ACETYLENE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 16:28 Cal File: 038.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

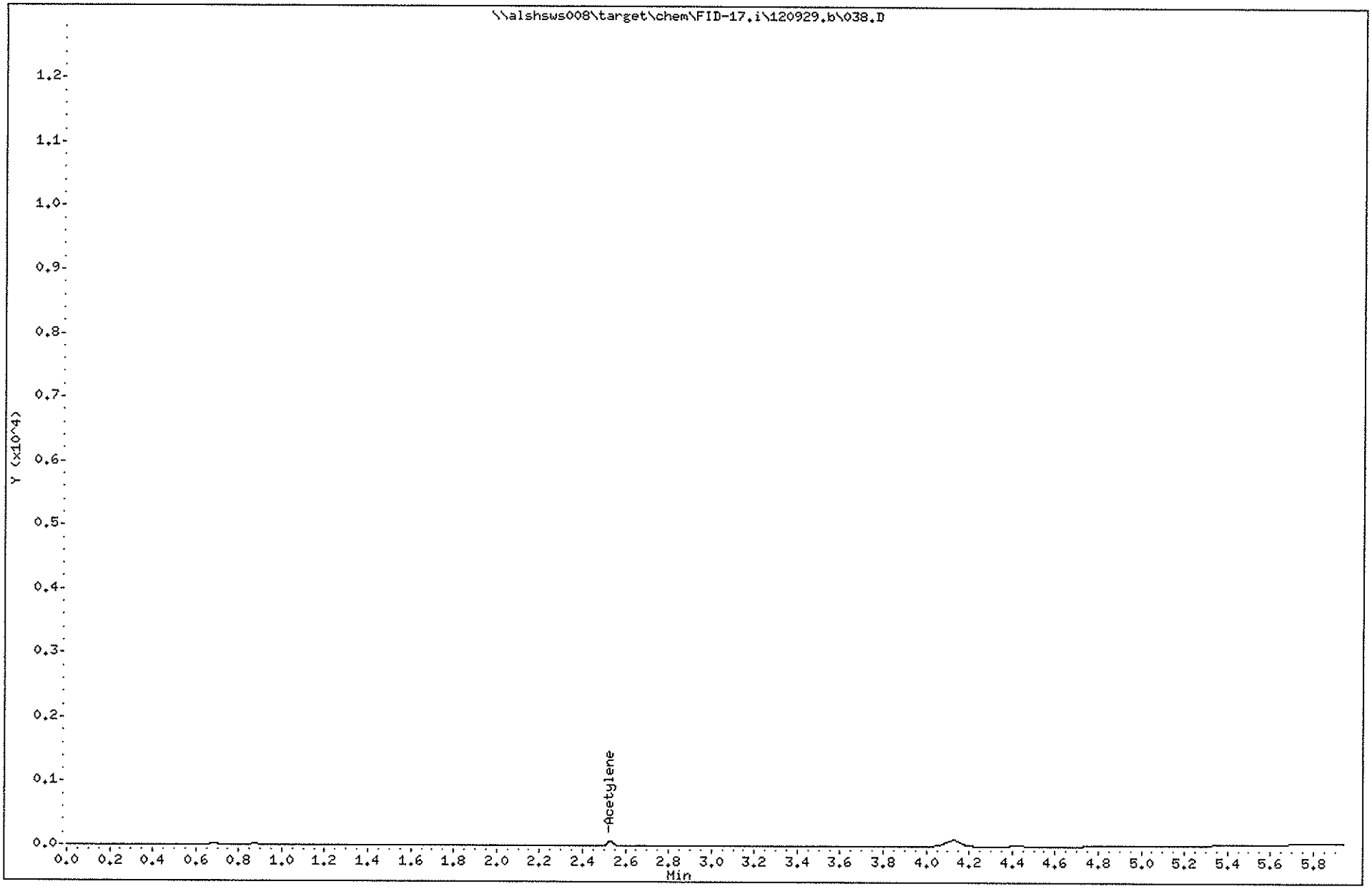
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.530	2.513	0.017	128	2.00000	

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\038.D
Date : 29-SEP-2012 16:28
Client ID: ACETYLENE1
Sample Info: ACETYLENE1;ACETYLENE1;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\039.D
Lab Smp Id: ACETYLENE2 Client Smp ID: ACETYLENE2
Inj Date : 29-SEP-2012 16:37
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE2;ACETYLENE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 16:37 Cal File: 039.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.526	2.513	0.013	680	10.0000	10.625(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\039.D

Date : 29-SEP-2012 16:37

Client ID: ACETYLENE2

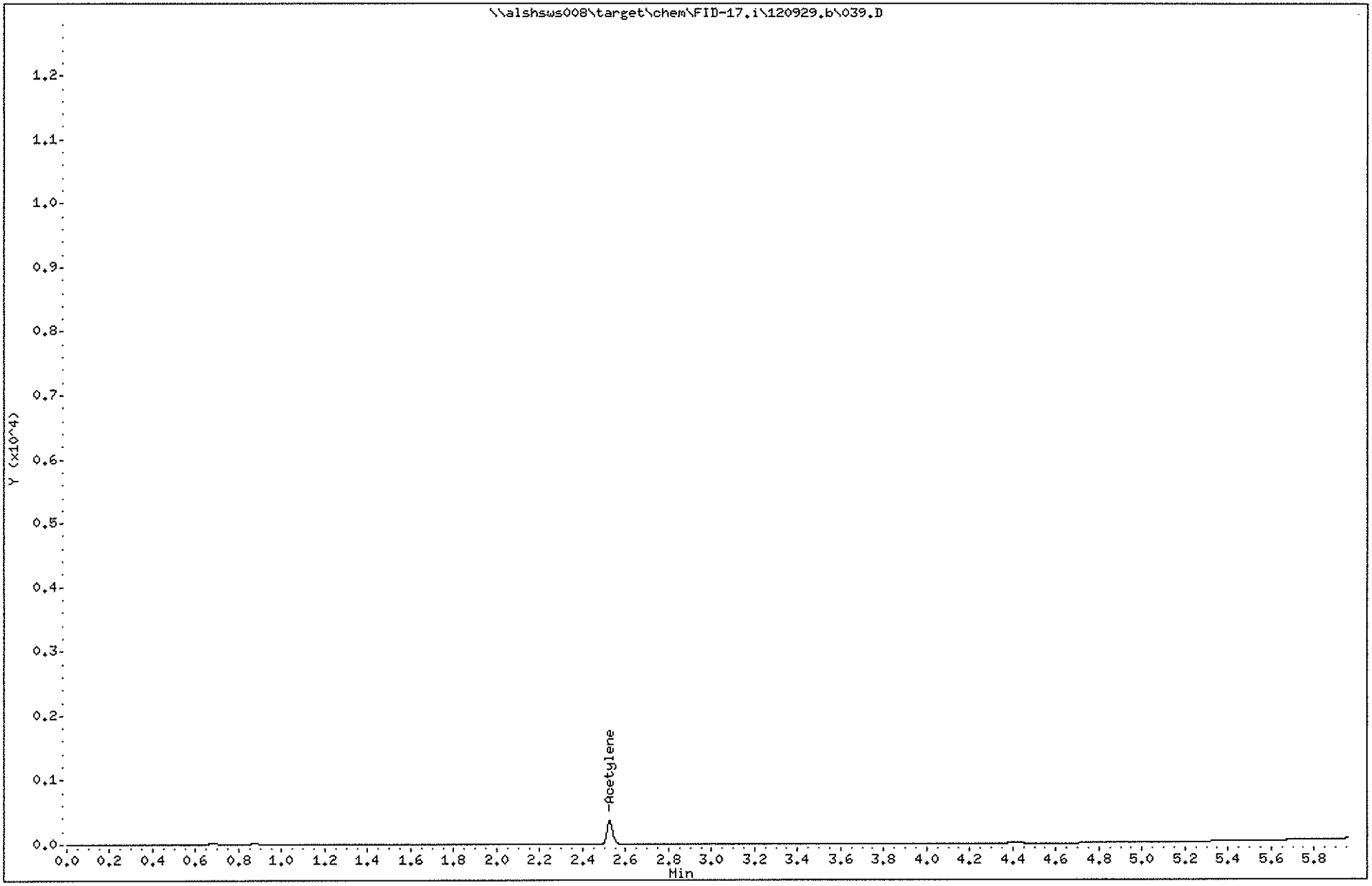
Instrument: FID-17.i

Sample Info: ACETYLENE2;ACETYLENE2;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\040.D
Lab Smp Id: ACETYLENE3 Client Smp ID: ACETYLENE3
Inj Date : 29-SEP-2012 16:46
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE3;ACETYLENE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 16:46 Cal File: 040.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.523	2.513	0.010	1321	20.0000	20.015(A)

QC Flag Legend

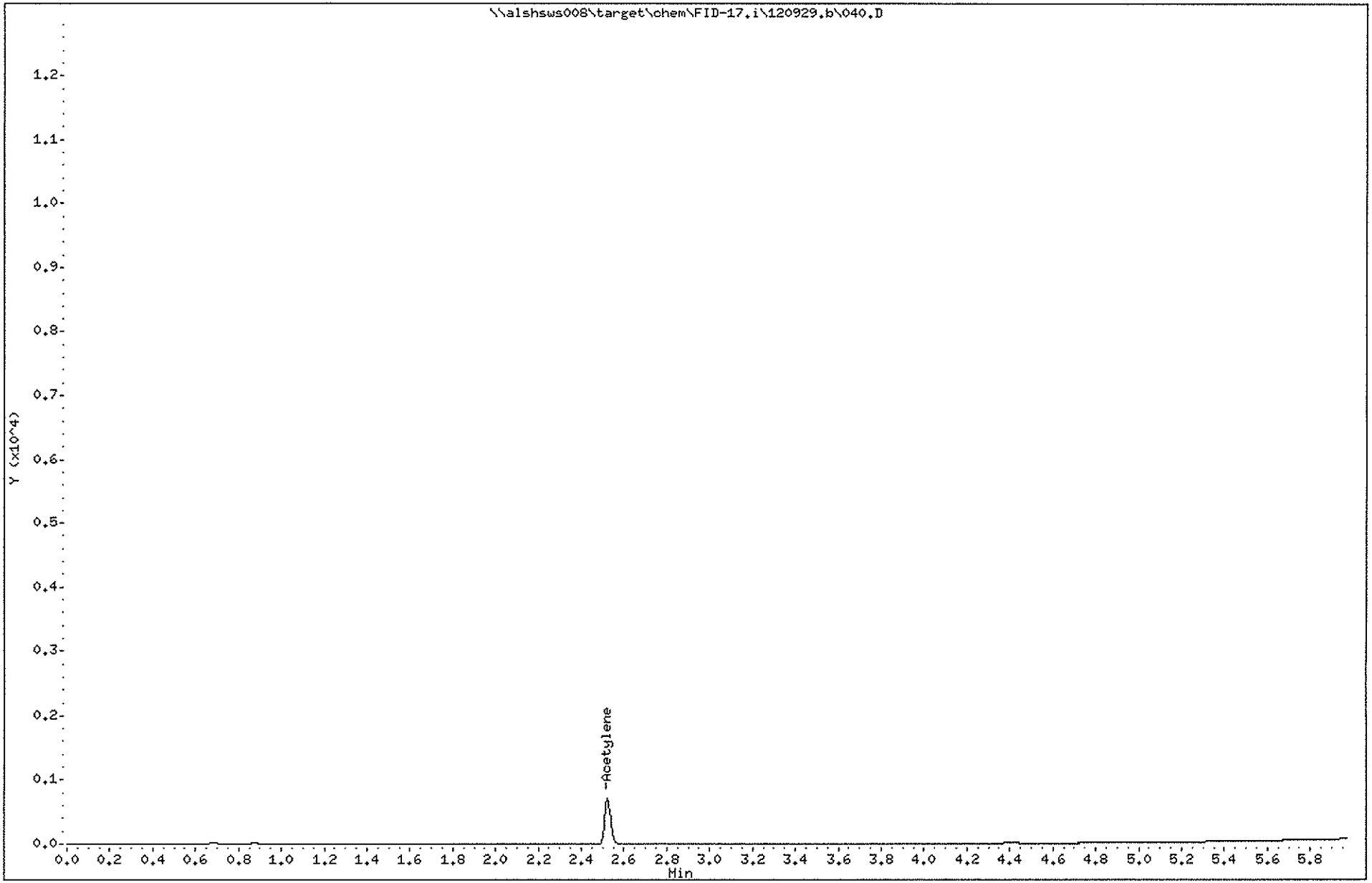
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\040.D
Date : 29-SEP-2012 16:46
Client ID: ACETYLENE3
Sample Info: ACETYLENE3;ACETYLENE3;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\041.D
Lab Smp Id: ACETYLENE4 Client Smp ID: ACETYLENE4
Inj Date : 29-SEP-2012 16:55
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE4;ACETYLENE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 16:55 Cal File: 041.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.516	2.513	0.003	3419	50.0000	51.789(A)

QC Flag Legend

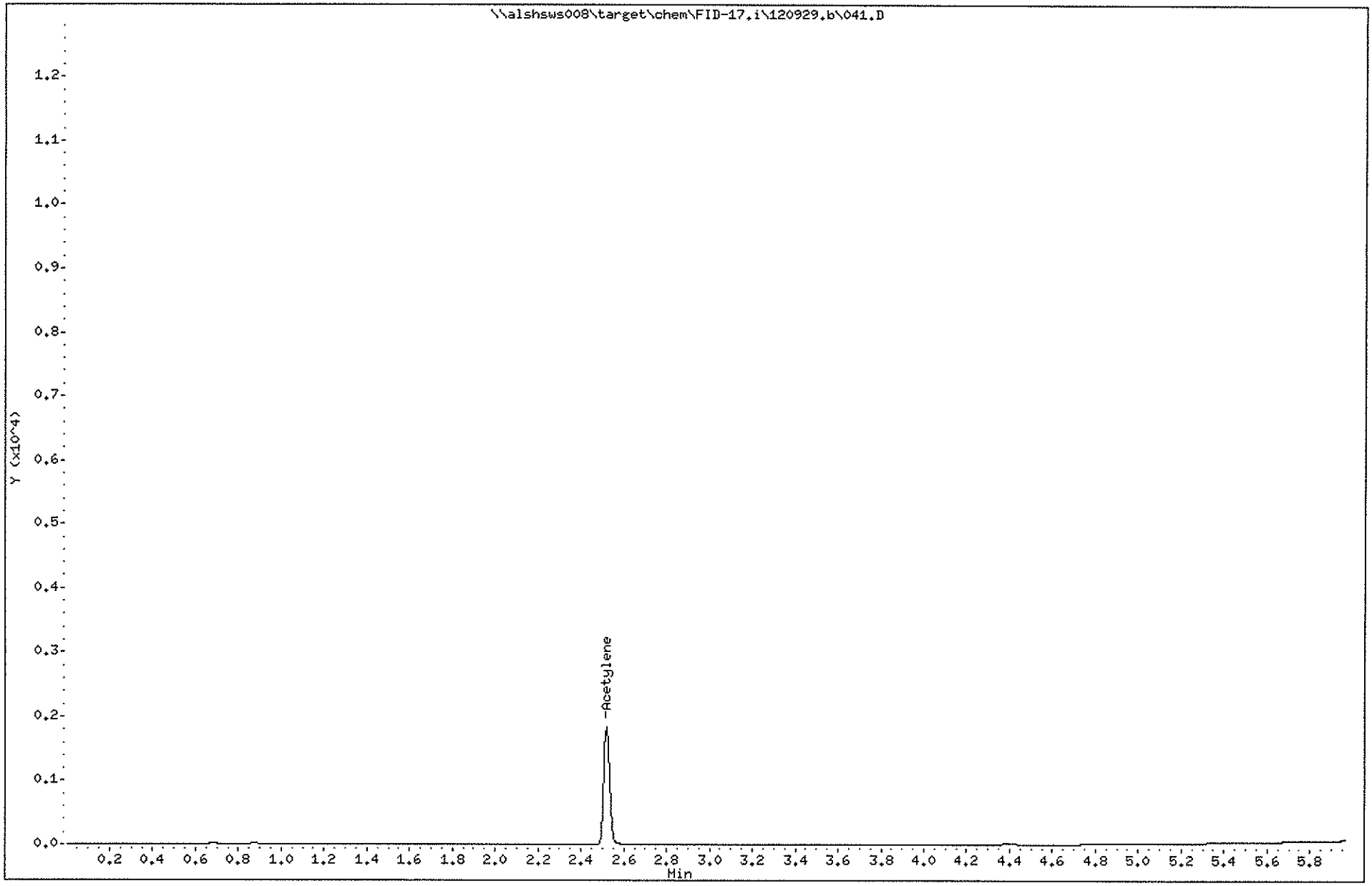
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\041.D
Date : 29-SEP-2012 16:55
Client ID: ACETYLENE4
Sample Info: ACETYLENE4;ACETYLENE4;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\042.D
Lab Smp Id: ACETYLENE5 Client Smp ID: ACETYLENE5
Inj Date : 29-SEP-2012 17:04
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE5;ACETYLENE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:04 Cal File: 042.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

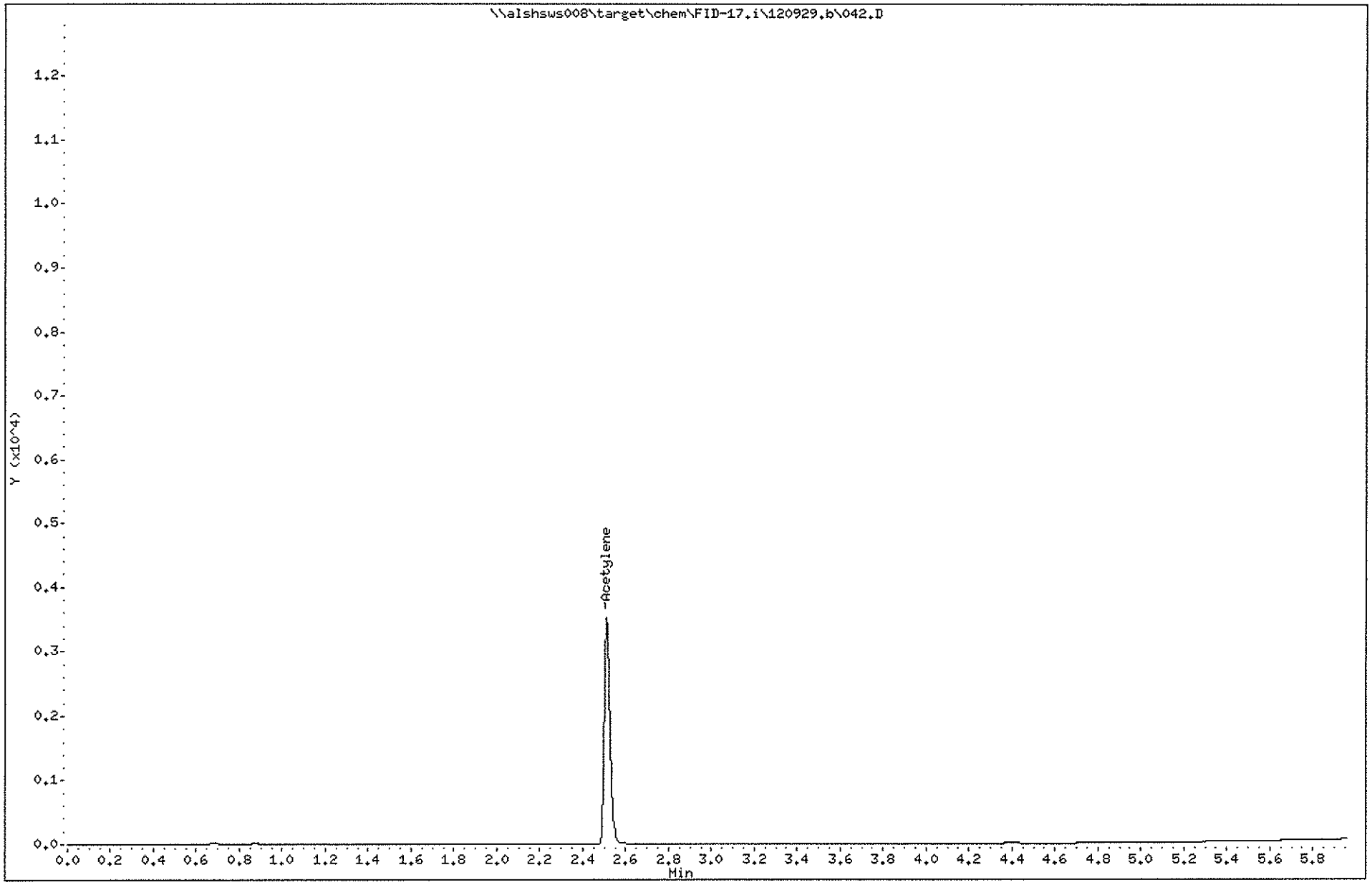
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.510	2.513	-0.003	6806	100.000	102.180(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\042.D
Date : 29-SEP-2012 17:04
Client ID: ACETYLENE5
Sample Info: ACETYLENE5;ACETYLENE5;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\043.D
Lab Smp Id: ACETYLENE6 Client Smp ID: ACETYLENE6
Inj Date : 29-SEP-2012 17:13
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE6;ACETYLENE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:13 Cal File: 043.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

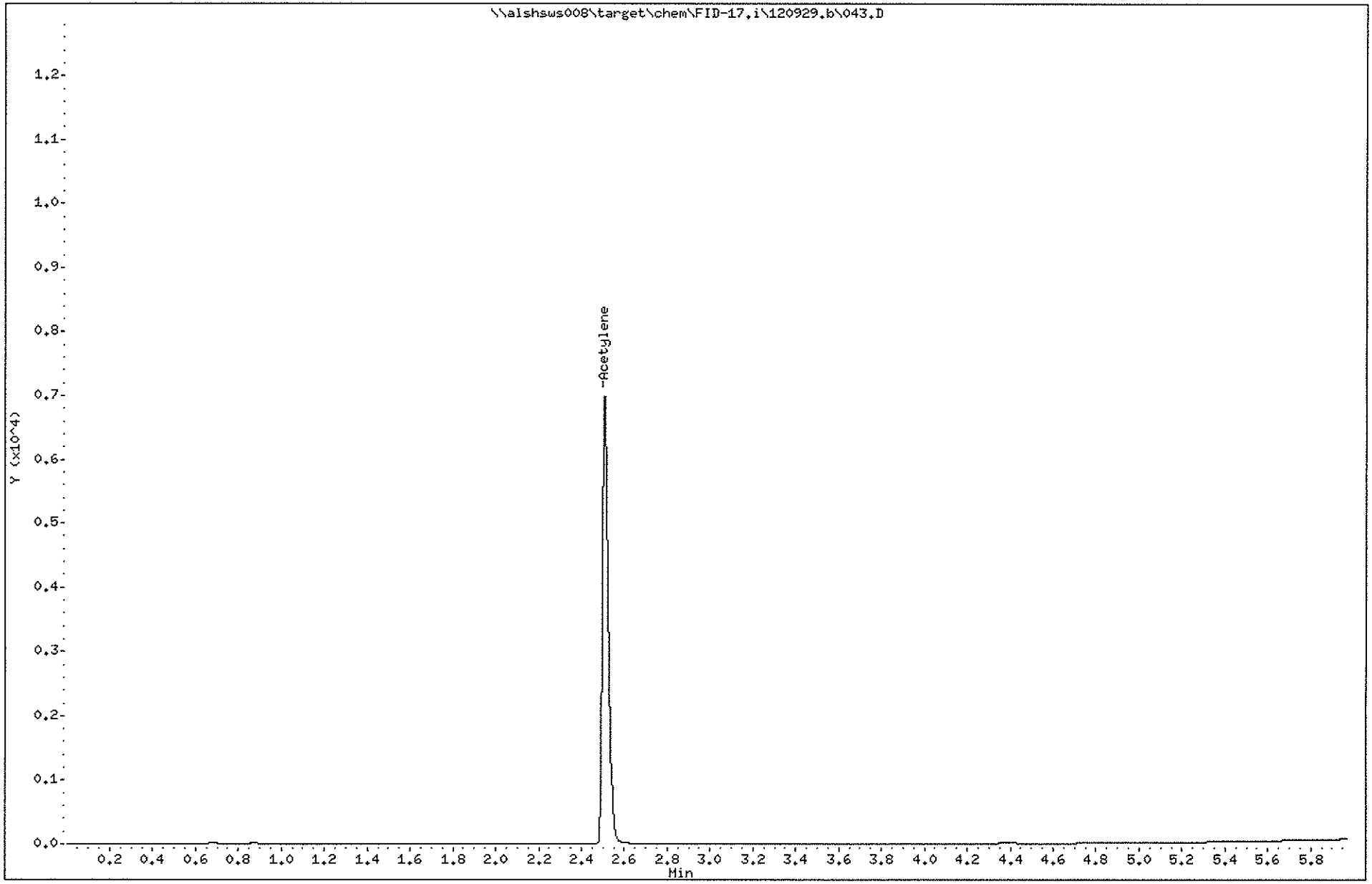
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.503	2.513	-0.010	13789	200.000	206.119(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\043.D
Date : 29-SEP-2012 17:13
Client ID: ACETYLENE6
Sample Info: ACETYLENE6;ACETYLENE6;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\044.D
Lab Smp Id: ACETYLENE7 Client Smp ID: ACETYLENE7
Inj Date : 29-SEP-2012 17:22
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE7;ACETYLENE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:22 Cal File: 044.D
Als bottle: 44 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.493	2.513	-0.020	28799	500.000	428.306(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

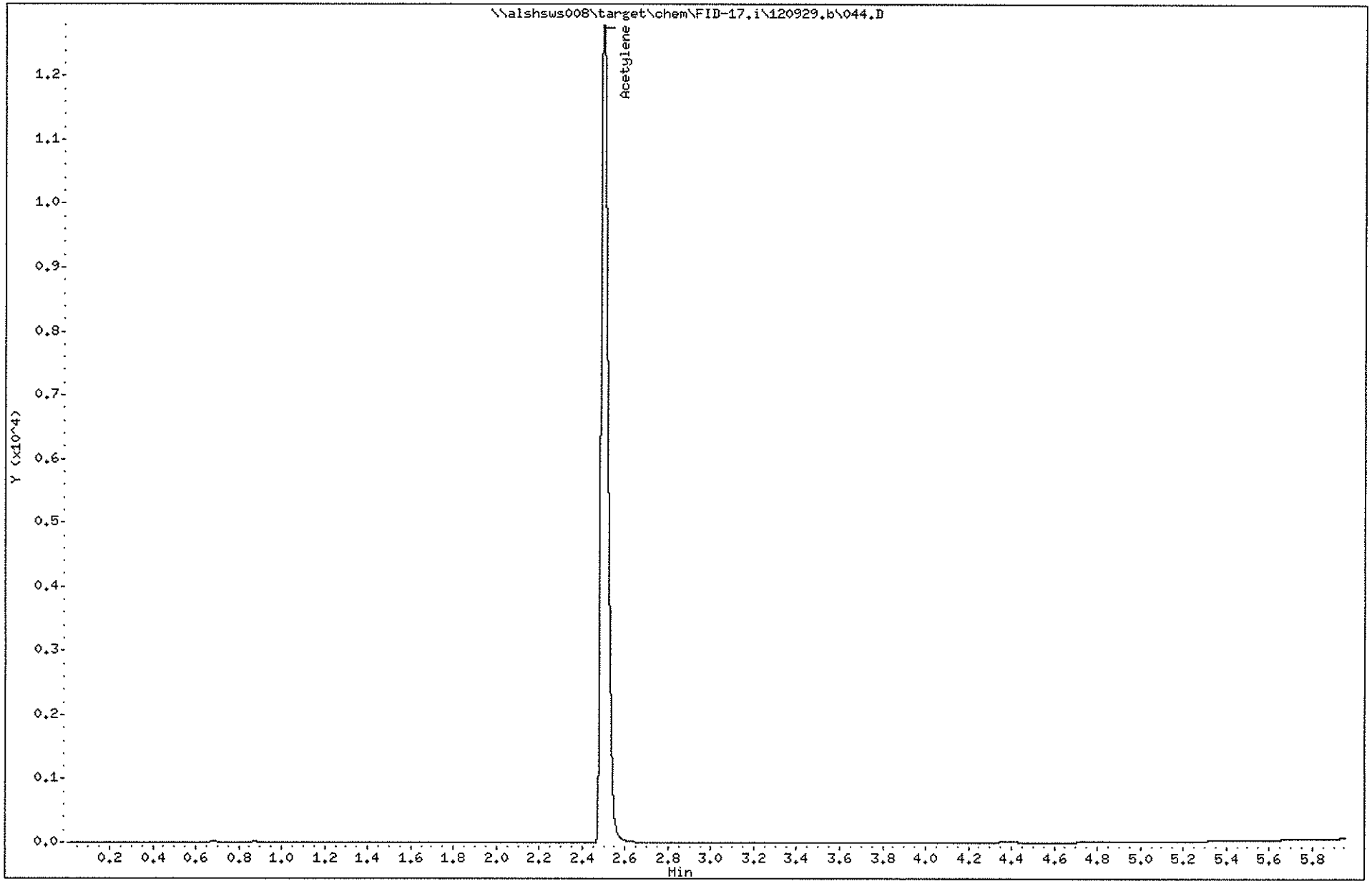
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\044.D
Date : 29-SEP-2012 17:22
Client ID: ACETYLENE7
Sample Info: ACETYLENE7;ACETYLENE7;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\045.D
Lab Smp Id: ACETYLENE8 Client Smp ID: ACETYLENE8
Inj Date : 29-SEP-2012 17:30
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE8;ACETYLENE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 45 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.473	2.513	-0.040	62890	1000.00	954.877(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

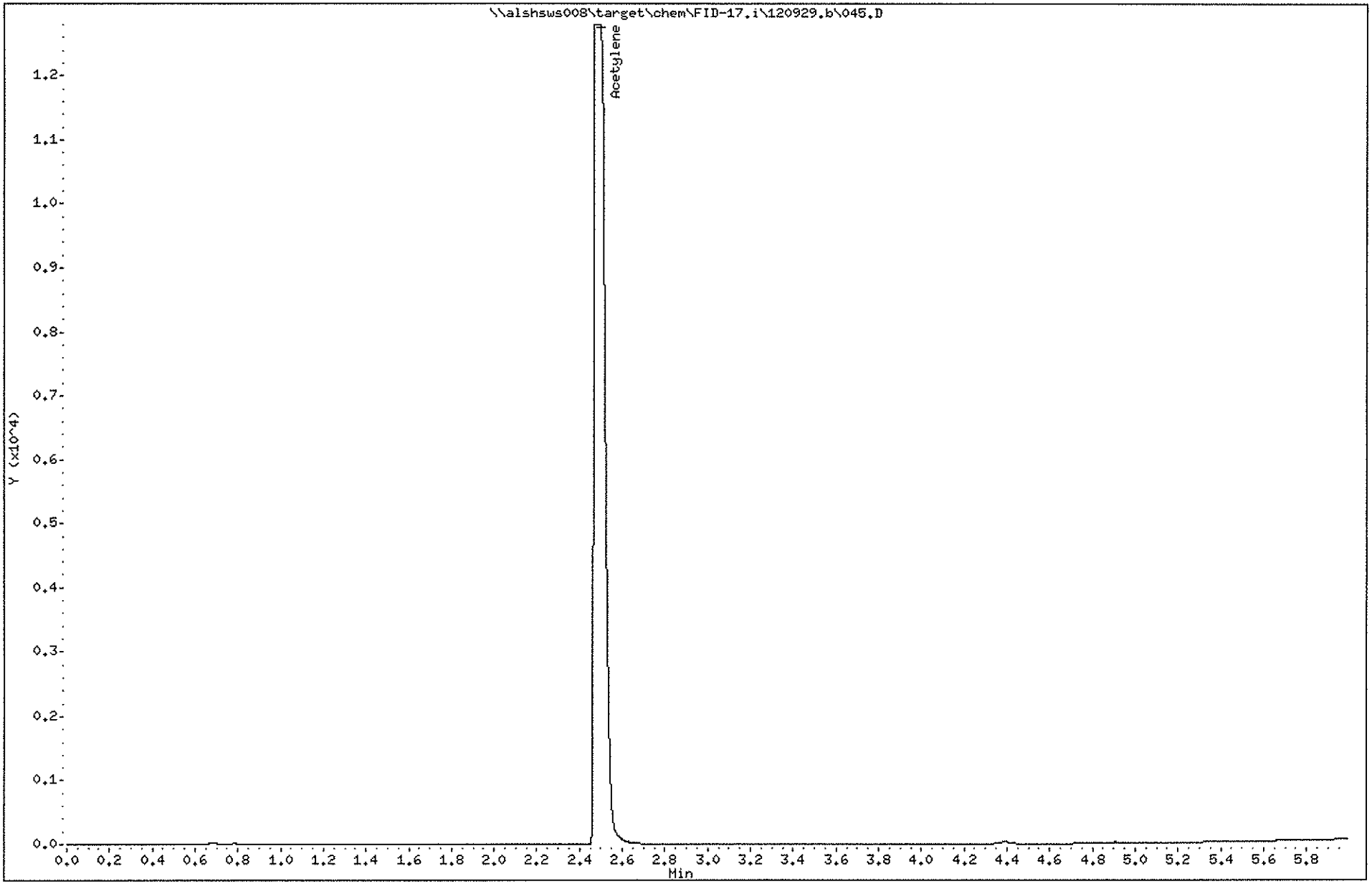
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\045.D
Date : 29-SEP-2012 17:30
Client ID: ACETYLENE8
Sample Info: ACETYLENE8;ACETYLENE8;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\046.D
Lab Smp Id: ACETYLENEICV Client Smp ID: ACETYLENEICV
Inj Date : 29-SEP-2012 17:39
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENEICV;ACETYLENEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 46 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.500	2.513	-0.013	13570	200.000	207.206(A)

QC Flag Legend

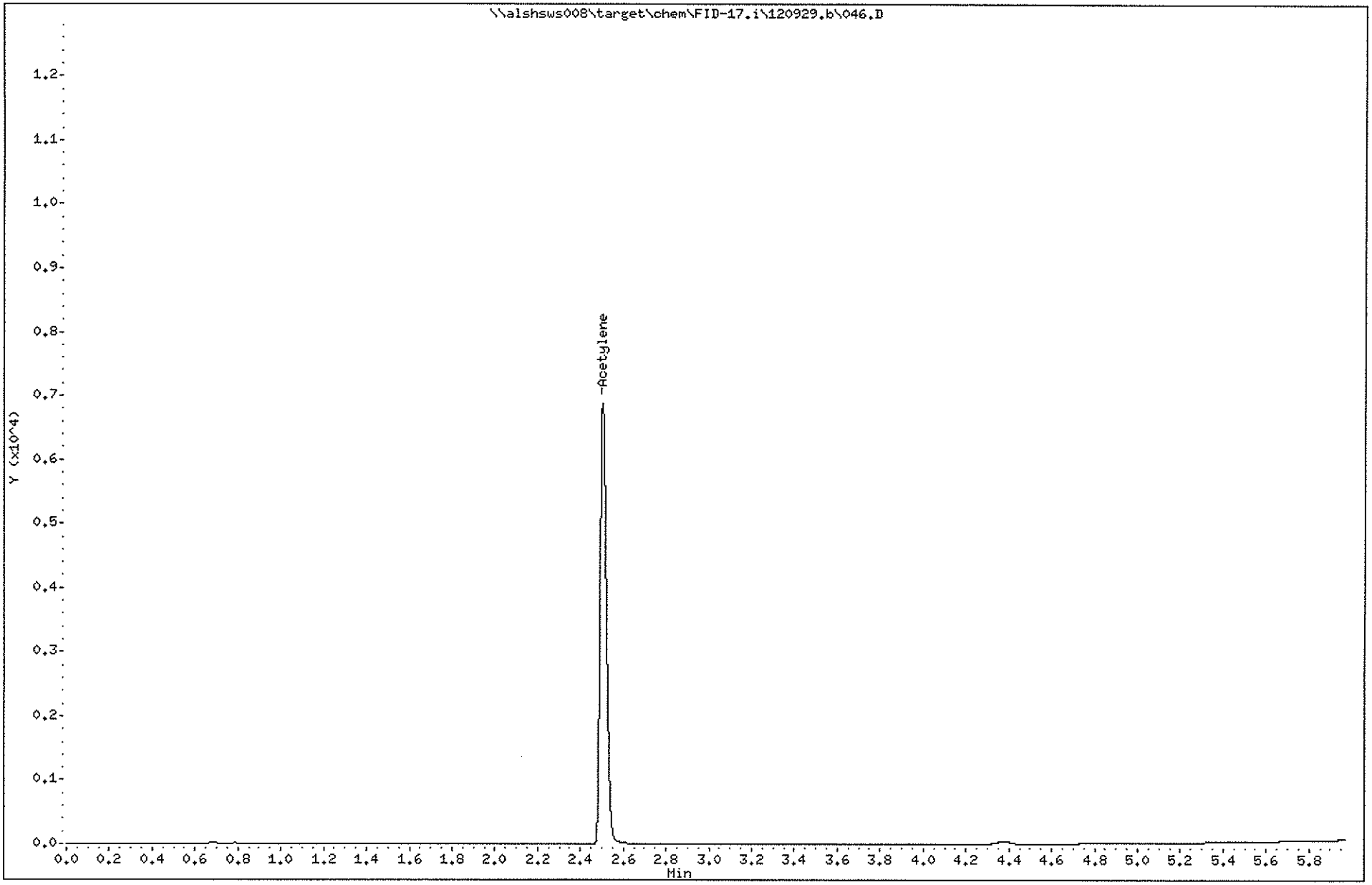
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\046.D
Date : 29-SEP-2012 17:39
Client ID: ACETYLENEICV
Sample Info: ACETYLENEICV;ACETYLENEICV;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\050.D
Lab Smp Id: 1209887-01A Client Smp ID: 1209887-01A
Inj Date : 29-SEP-2012 18:15
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-01A;1209887-01A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 50
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: smp.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

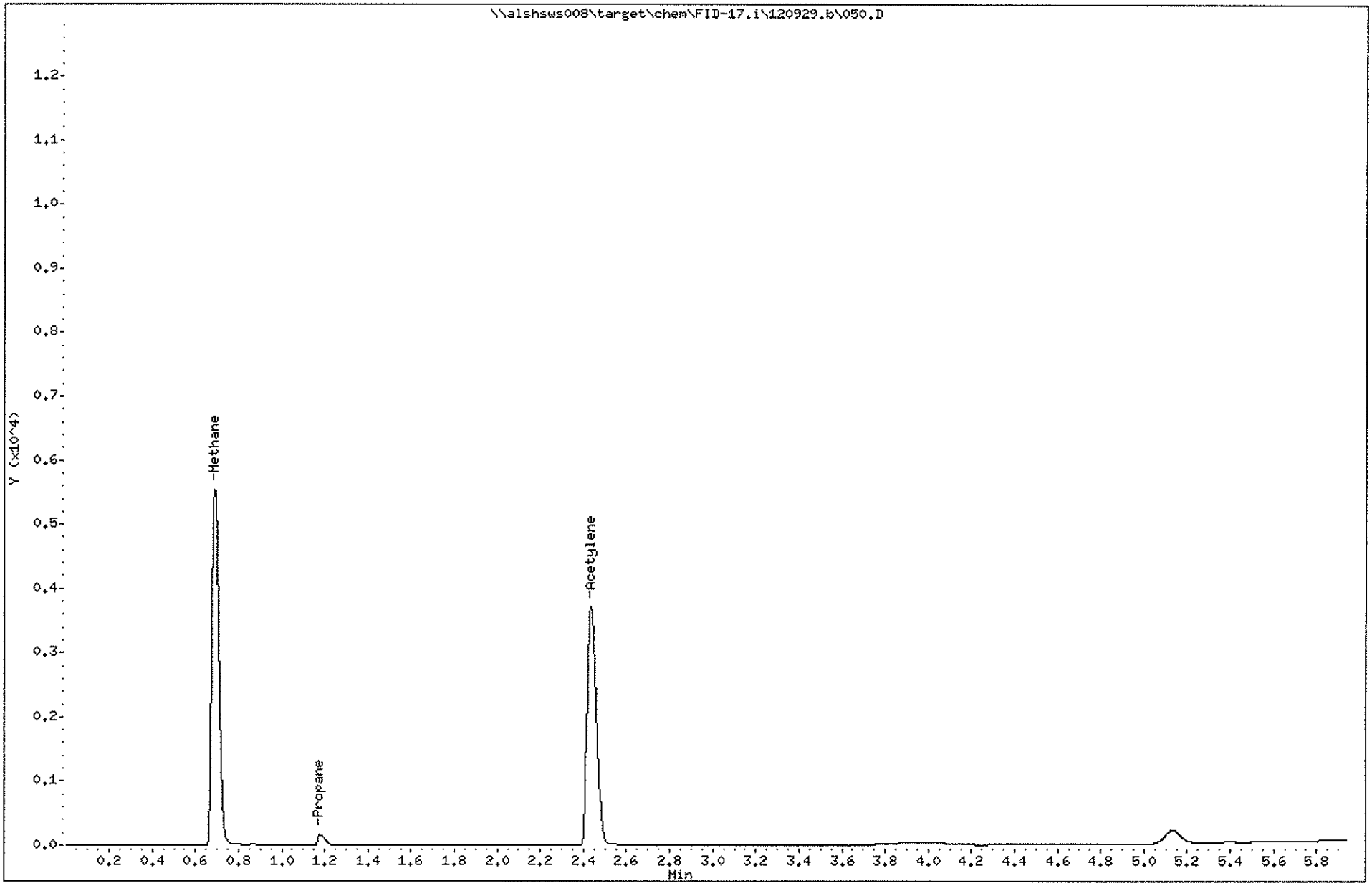
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.686	0.686	0.000	12476	195.183	195.182(A)
4 Propane	1.176	1.199	-0.023	361	4.48042	4.480(a)
$ 5 Acetylene	2.433	2.513	-0.080	11158	170.376	170.376(A)

QC Flag Legend

a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\050.D
Date : 29-SEP-2012 18:15
Client ID: 1209887-01A
Sample Info: 1209887-01A;1209887-01A;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\051.D
Lab Smp Id: 1209887-02A Client Smp ID: 1209887-02A
Inj Date : 29-SEP-2012 18:24
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-02A;1209887-02A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 51
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: smp.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.686	0.686	0.000	127	1.98687	1.986
$ 5 Acetylene	2.426	2.513	-0.087	11076	169.124	169.124(A)

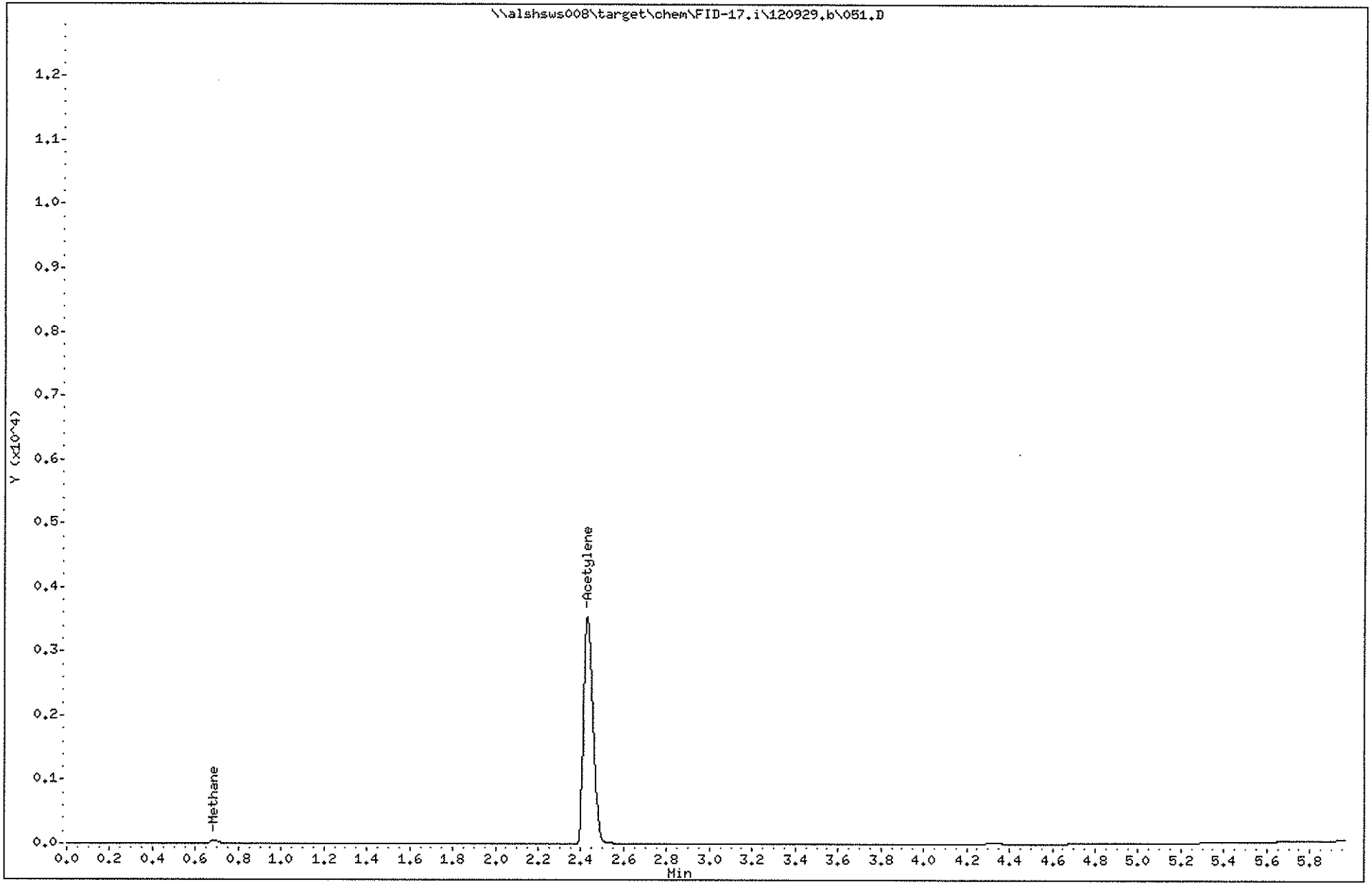
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\051.D
Date : 29-SEP-2012 18:24
Client ID: 1209887-02A
Sample Info: 1209887-02A;1209887-02A;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\052.D
Lab Smp Id: 1209887-03A Client Smp ID: 1209887-03A
Inj Date : 29-SEP-2012 18:33
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-03A;1209887-03A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 52
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: smp.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 5 Acetylene	2.426	2.513	-0.087	11677	178.301	178.301(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

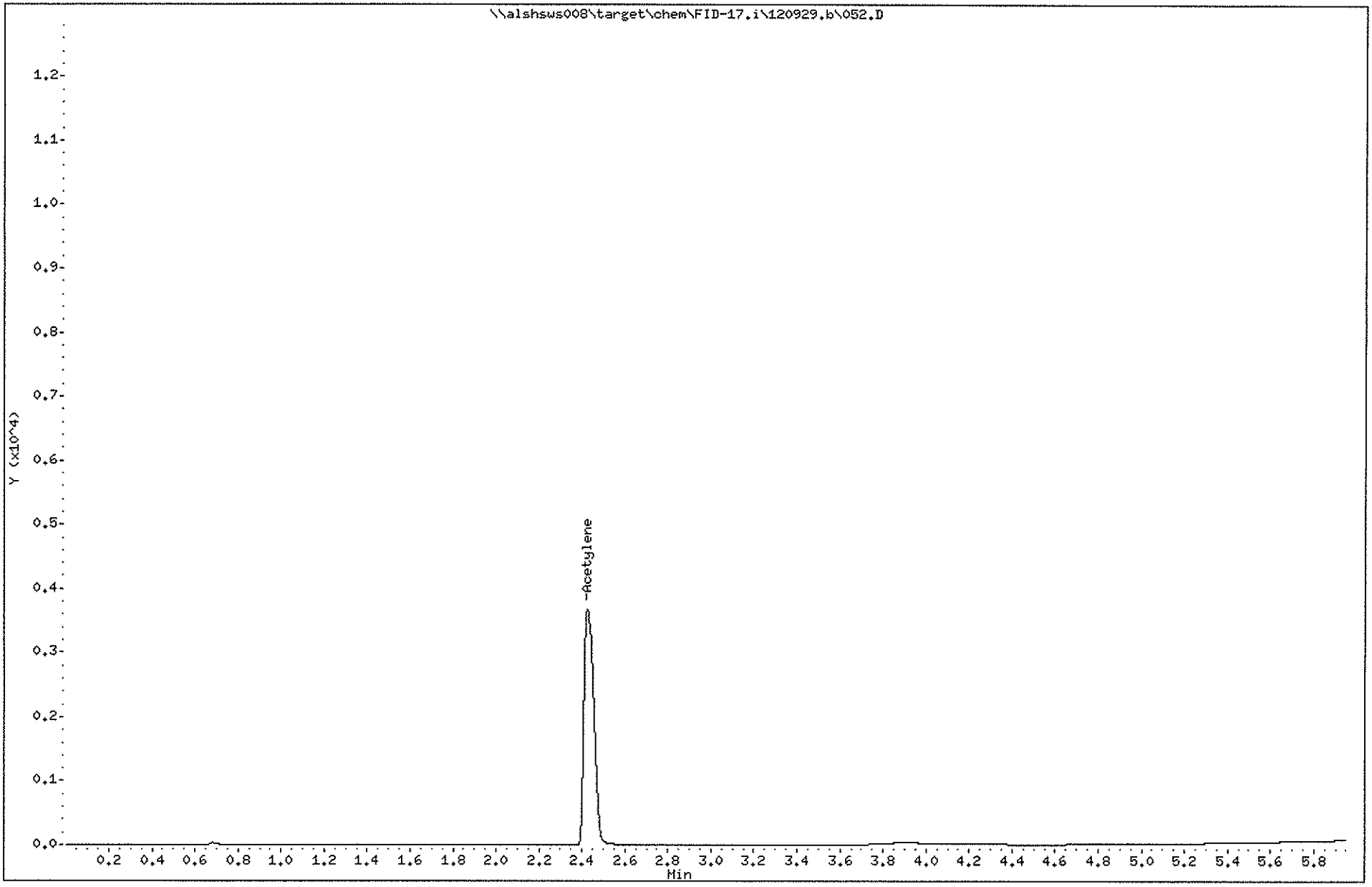
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\052.D
Date : 29-SEP-2012 18:33
Client ID: 1209887-03A
Sample Info: 1209887-03A;1209887-03A;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\056.D
Lab Smp Id: 1209887-01ADUP Client Smp ID: 1209887-01ADUP
Inj Date : 29-SEP-2012 19:08
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-01ADUP;1209887-01ADUP;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 56
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: smp.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

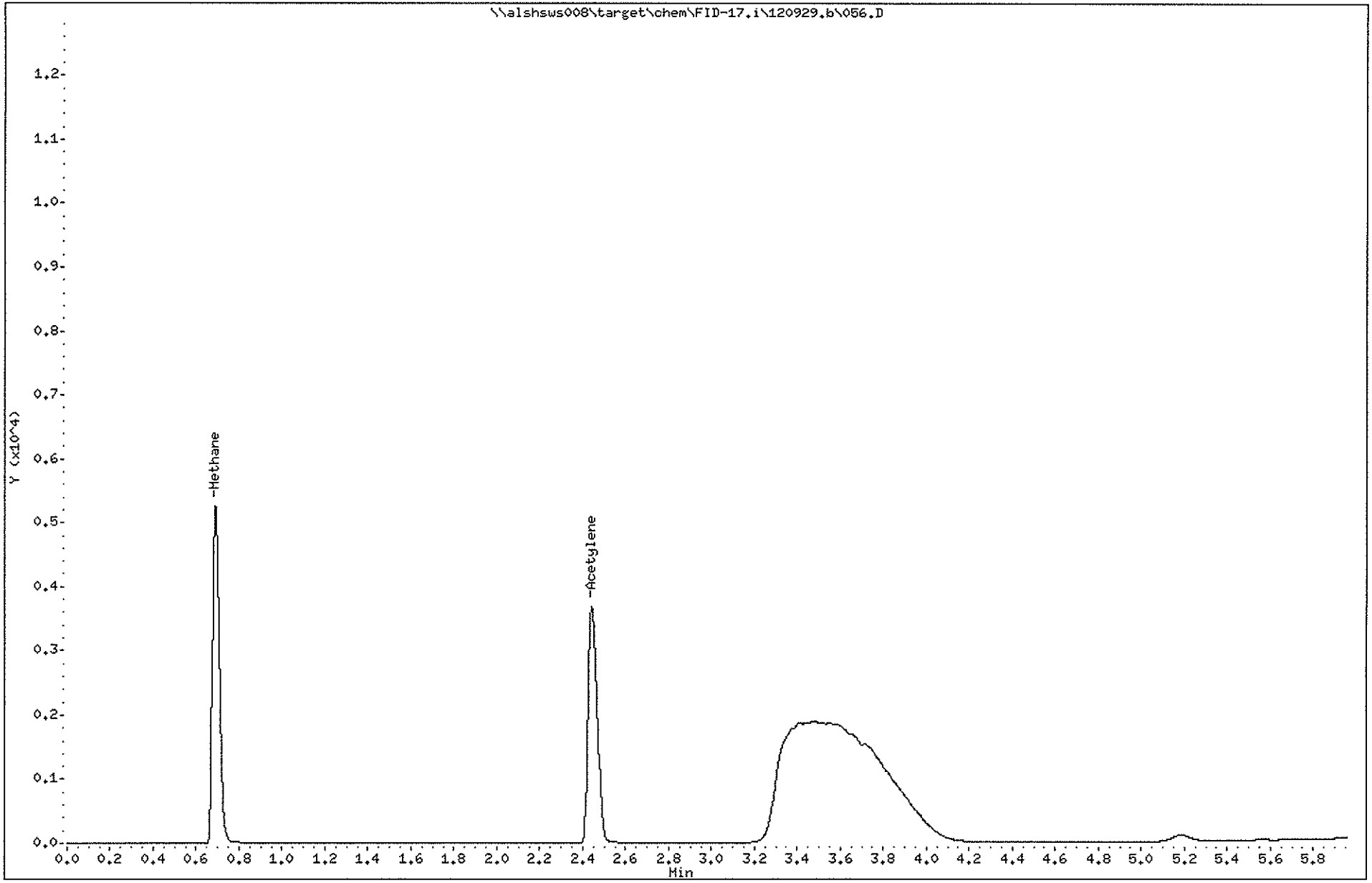
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	0.686	0.686	0.000	11899	186.156	186.155(A)
$ 5 Acetylene	2.440	2.513	-0.073	11092	169.368	169.368(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\056.D
Date : 29-SEP-2012 19:08
Client ID: 1209887-01ADUP
Sample Info: 1209887-01ADUP;1209887-01ADUP;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\057.D
Lab Smp Id: METHANECCV Client Smp ID: METHANECCV
Inj Date : 29-SEP-2012 19:17
Operator : JA Inst ID: FID-17.i
Smp Info : METHANECCV;METHANECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 57 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.686	0.686	0.000	17872	239.000	279.601(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

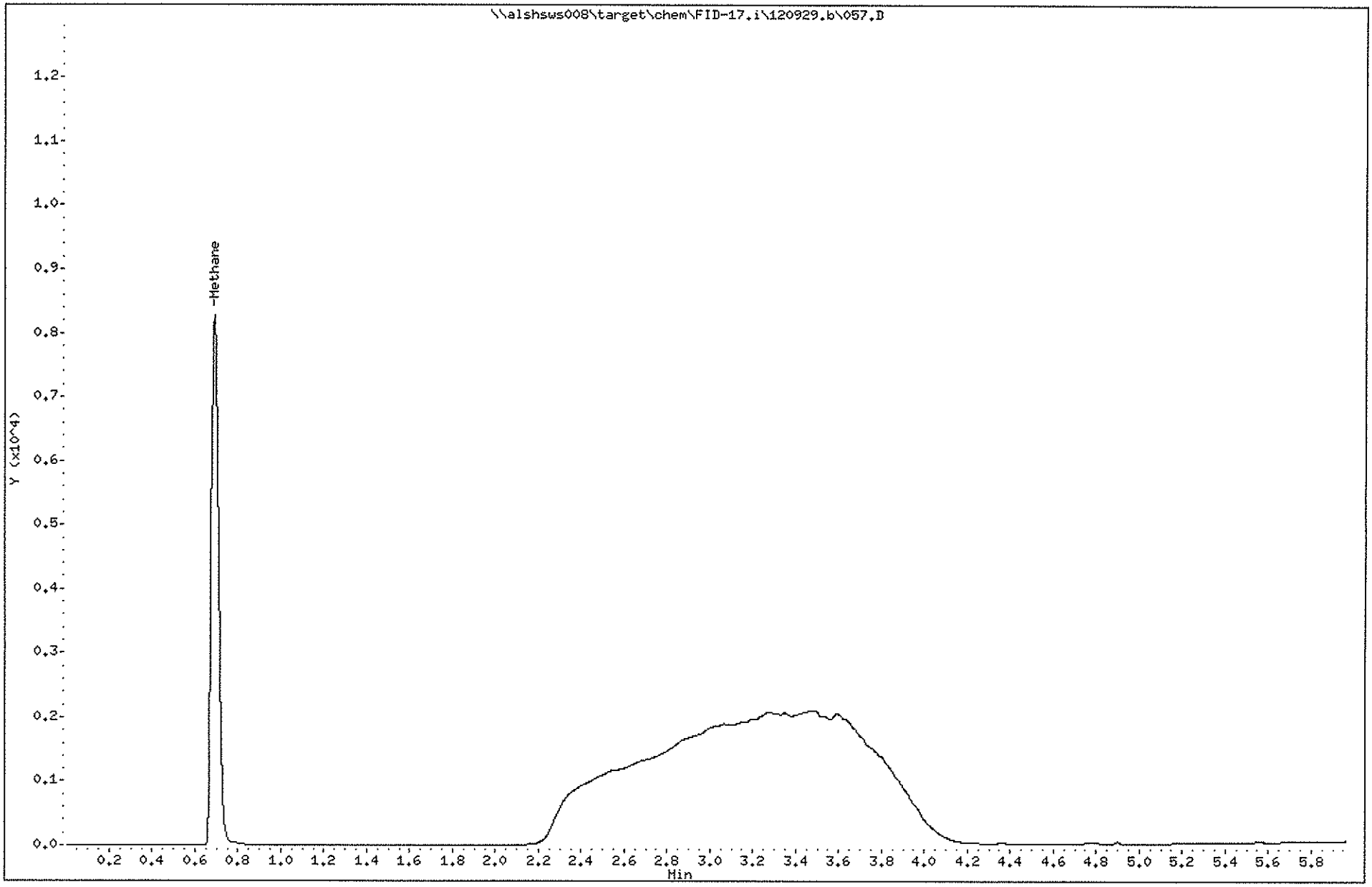
Data File: \\alshsws008\target\chem\FID-17.i\120929.b\057.D
Date : 29-SEP-2012 19:17
Client ID: METHANECCV
Sample Info: METHANECCV;METHANECCV;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\058.D
Lab Smp Id: ETHANECCV Client Smp ID: ETHANECCV
Inj Date : 29-SEP-2012 19:26
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANECCV;ETHANECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 58 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.783	0.783	0.000	25032	310.000	362.786(AM)

QC Flag Legend

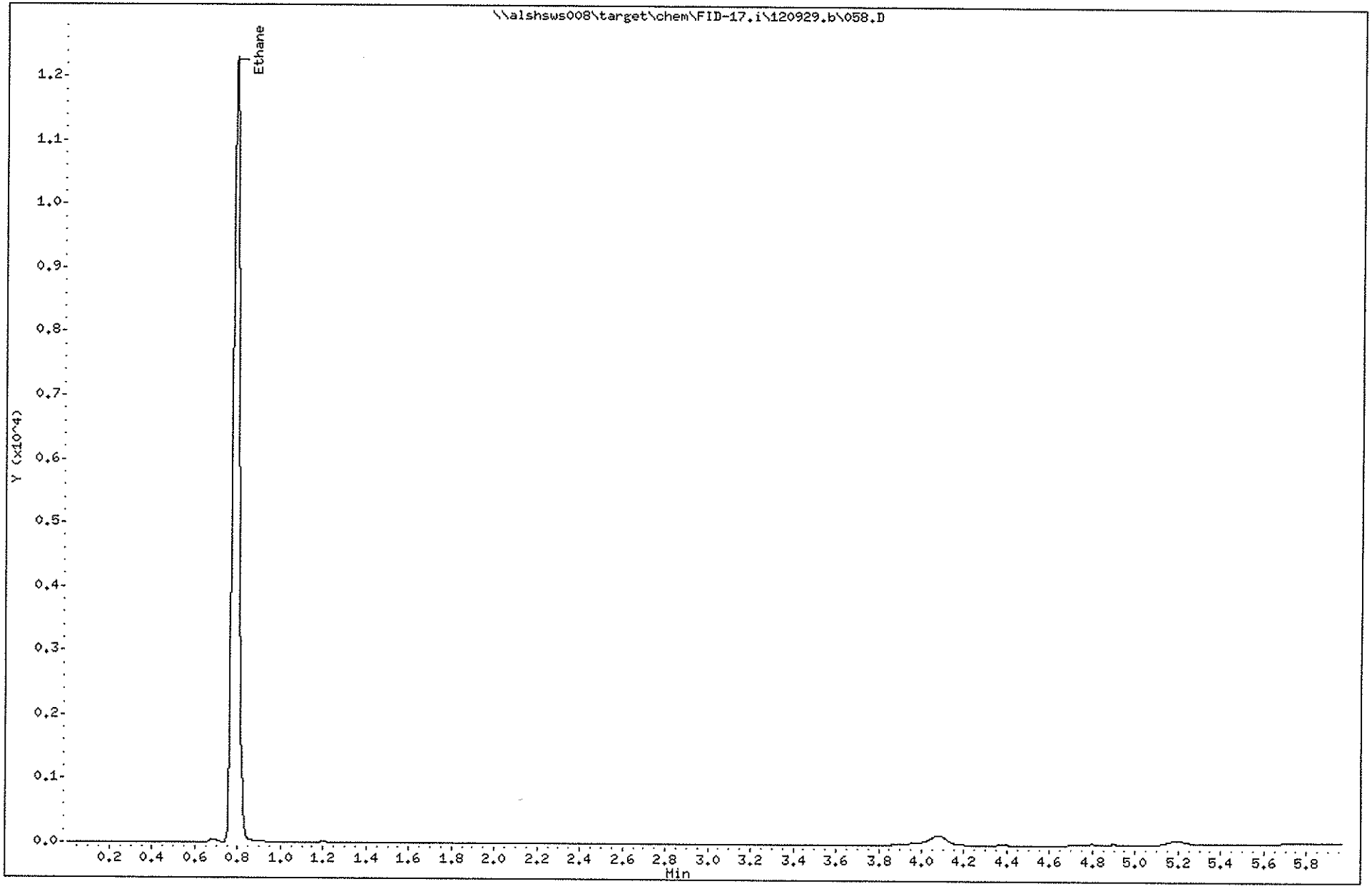
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\058.D
Date : 29-SEP-2012 19:26
Client ID: ETHANECCV
Sample Info: ETHANECCV;ETHANECCV;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\059.D
Lab Smp Id: ETHENECCV Client Smp ID: ETHENECCV
Inj Date : 29-SEP-2012 19:35
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENECCV;ETHENECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 59 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

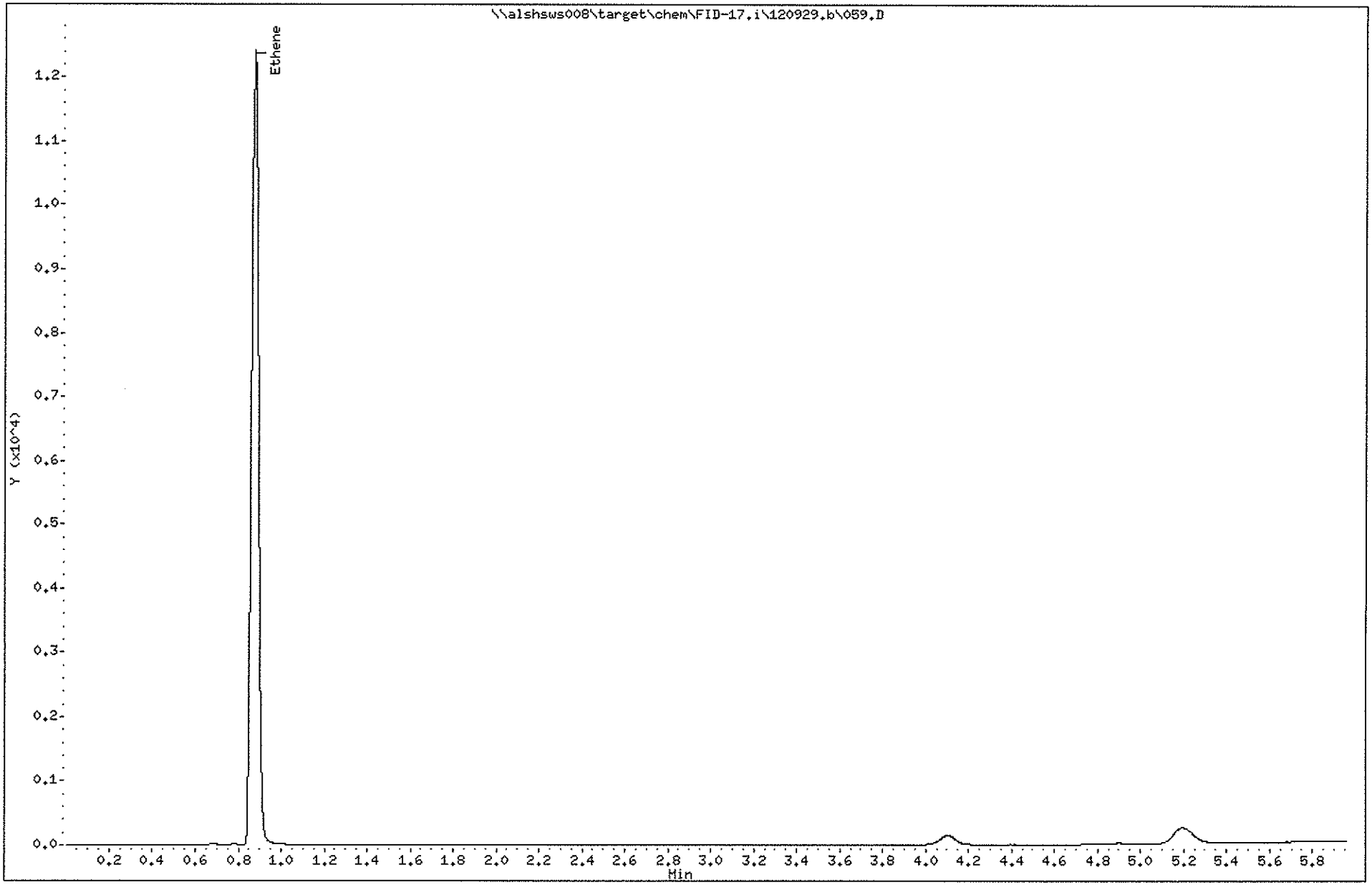
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.873	0.873	0.000	27581	283.000	302.801(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\059.D
Date : 29-SEP-2012 19:35
Client ID: ETHENECCV
Sample Info: ETHENECCV;ETHENECCV;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\120929.b\061.D
Lab Smp Id: ACETYLENECCV Client Smp ID: ACETYLENECCV
Inj Date : 29-SEP-2012 19:53
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENECCV;ACETYLENECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\120929.b\rsk.m
Meth Date : 15-Feb-2013 09:36 kbrown Quant Type: ESTD
Cal Date : 29-SEP-2012 17:30 Cal File: 045.D
Als bottle: 61 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.513	2.513	0.000	13054	200.000	199.327(A)

QC Flag Legend

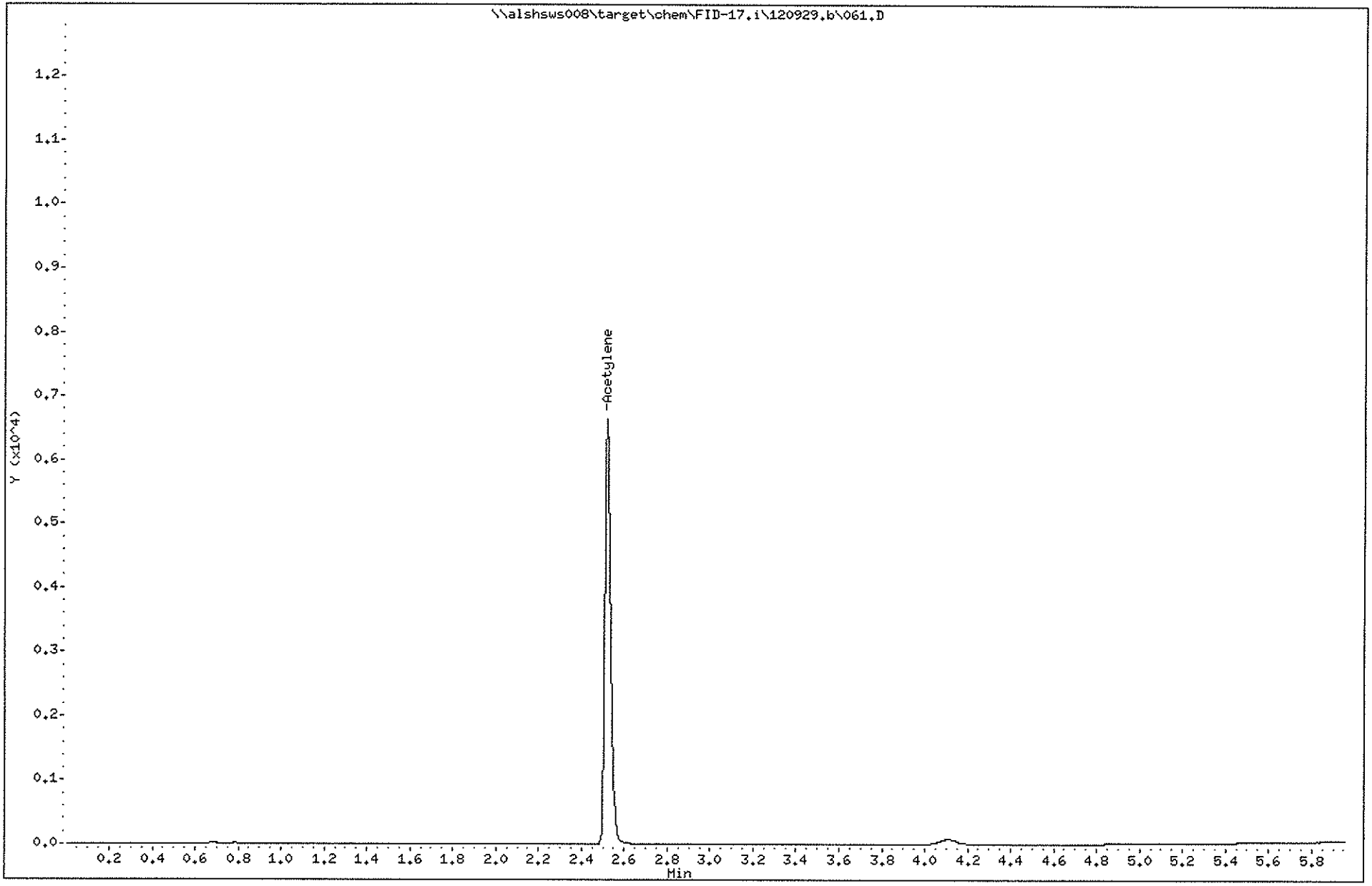
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\120929.b\061.D
Date : 29-SEP-2012 19:53
Client ID: ACETYLENECCV
Sample Info: ACETYLENECCV;ACETYLENECCV;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



FORM 2
WATER GASES SURROGATE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

	ENG SC SAMPLE NO.	S1 #	S2 #	S3 #	S4 #	S5 #	S6 #	S7 #	S8 #	TOT OUT
01	1209887-04A	90								0
02	1209887-05A	90								0
03	1209887-06A	93								0
04										
05										
06										
07										
08										
09										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										

S1 = Acetylene QC LIMITS (60-140)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogate diluted out

FID17-Logbook

Batch: 5469 **Analyst:** Kristin Brown
Date: 01-Oct-12 **Reviewer:** Nosa Izekor
Method: RSK **Laboratory:** Houston
Comments:

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	BLK	SAMP	10-01-2012 18:11	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	METHANE1	CALIB_1	10-01-2012 18:21	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	METHANE2	CALIB_2	10-01-2012 18:30	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	METHANE3	CALIB_3	10-01-2012 18:39	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	METHANE4	CALIB_4	10-01-2012 18:48	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	METHANE5	CALIB_5	10-01-2012 18:57	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	METHANE6	CALIB_6	10-01-2012 19:06	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	METHANE7	CALIB_7	10-01-2012 19:15	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	METHANE8	CALIB_8	10-01-2012 19:24	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	METHANEICV	CCV	10-01-2012 19:32	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	ETHANE1	CALIB_1	10-01-2012 19:41	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	ETHANE2	CALIB_2	10-01-2012 19:50	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	ETHANE3	CALIB_3	10-01-2012 19:59	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	ETHANE4	CALIB_4	10-01-2012 20:08	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	ETHANE5	CALIB_5	10-01-2012 20:17	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	ETHANE6	CALIB_6	10-01-2012 20:26	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	ETHANE7	CALIB_7	10-01-2012 20:35	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	ETHANE8	CALIB_8	10-01-2012 20:44	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	ETHANEICV	CCV	10-01-2012 20:53	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA
20	ETHENE1	CALIB_1	10-01-2012 21:02	1.00	0.00 mL	0.00 mL	020.D	Liquid	☒	NA
21	ETHENE2	CALIB_2	10-01-2012 21:10	1.00	0.00 mL	0.00 mL	021.D	Liquid	☒	NA
22	ETHENE3	CALIB_3	10-01-2012 21:19	1.00	0.00 mL	0.00 mL	022.D	Liquid	☒	NA
23	ETHENE4	CALIB_4	10-01-2012 21:28	1.00	0.00 mL	0.00 mL	023.D	Liquid	☒	NA
24	ETHENE5	CALIB_5	10-01-2012 21:37	1.00	0.00 mL	0.00 mL	024.D	Liquid	☒	NA
25	ETHENE6	CALIB_6	10-01-2012 21:46	1.00	0.00 mL	0.00 mL	025.D	Liquid	☒	NA
26	ETHENE7	CALIB_7	10-01-2012 21:55	1.00	0.00 mL	0.00 mL	026.D	Liquid	☒	NA
27	ETHENE8	CALIB_8	10-01-2012 22:04	1.00	0.00 mL	0.00 mL	027.D	Liquid	☒	NA
28	ETHENEICV	CCV	10-01-2012 22:13	1.00	0.00 mL	0.00 mL	028.D	Liquid	☒	NA
29	PROPANE1	CALIB_1	10-01-2012 22:22	1.00	0.00 mL	0.00 mL	029.D	Liquid	☒	NA
30	PROPANE2	CALIB_2	10-01-2012 22:31	1.00	0.00 mL	0.00 mL	030.D	Liquid	☒	NA
31	PROPANE3	CALIB_3	10-01-2012 22:40	1.00	0.00 mL	0.00 mL	031.D	Liquid	☒	NA
32	PROPANE4	CALIB_4	10-01-2012 22:48	1.00	0.00 mL	0.00 mL	032.D	Liquid	☒	NA
33	PROPANE5	CALIB_5	10-01-2012 22:57	1.00	0.00 mL	0.00 mL	033.D	Liquid	☒	NA
34	PROPANE6	CALIB_6	10-01-2012 23:06	1.00	0.00 mL	0.00 mL	034.D	Liquid	☒	NA
35	PROPANE7	CALIB_7	10-01-2012 23:15	1.00	0.00 mL	0.00 mL	035.D	Liquid	☒	NA
36	PROPANE8	CALIB_8	10-01-2012 23:24	1.00	0.00 mL	0.00 mL	036.D	Liquid	☒	NA
37	PROPANEICV	CCV	10-01-2012 23:33	1.00	0.00 mL	0.00 mL	037.D	Liquid	☒	NA
38	ACETYLENE1	CALIB_1	10-01-2012 23:42	1.00	0.00 mL	0.00 mL	038.D	Liquid	☒	NA
39	ACETYLENE2	CALIB_2	10-01-2012 23:51	1.00	0.00 mL	0.00 mL	039.D	Liquid	☒	NA
40	ACETYLENE3	CALIB_3	10-02-2012 00:00	1.00	0.00 mL	0.00 mL	040.D	Liquid	☒	NA
41	ACETYLENE4	CALIB_4	10-02-2012 00:09	1.00	0.00 mL	0.00 mL	041.D	Liquid	☒	NA

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FID17-Logbook

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
42	ACETYLENE5	CALIB_5	10-02-2012 00:18	1.00	0.00 mL	0.00 mL	042.D	Liquid	☒	NA
43	ACETYLENE6	CALIB_6	10-02-2012 00:26	1.00	0.00 mL	0.00 mL	043.D	Liquid	☒	NA
44	ACETYLENE7	CALIB_7	10-02-2012 00:35	1.00	0.00 mL	0.00 mL	044.D	Liquid	☒	NA
45	ACETYLENE8	CALIB_8	10-02-2012 00:44	1.00	0.00 mL	0.00 mL	045.D	Liquid	☒	NA
46	ACETYLENEICV	CCV	10-02-2012 00:53	1.00	0.00 mL	0.00 mL	046.D	Liquid	☒	NA
47	1209878-01B	SAMP	10-02-2012 01:02	10.00	0.00 mL	0.00 mL	047.D	Liquid	☒	NA
48	1209878-02B	SAMP	10-02-2012 01:11	1.00	0.00 mL	0.00 mL	048.D	Liquid	☒	NA
49	1209878-02BDUP	SAMP	10-02-2012 01:20	1.00	0.00 mL	0.00 mL	049.D	Liquid	☒	NA
50	1209887-04A	SAMP	10-02-2012 01:29	20.00	0.00 mL	0.00 mL	050.D	Liquid	☒	NA
51	1209887-05A	SAMP	10-02-2012 01:38	20.00	0.00 mL	0.00 mL	051.D	Liquid	☒	NA
52	1209887-06A	SAMP	10-02-2012 01:47	20.00	0.00 mL	0.00 mL	052.D	Liquid	☒	NA
53	METHANECCV	CCV	10-02-2012 01:56	1.00	0.00 mL	0.00 mL	053.D	Liquid	☒	NA
54	ETHANECCV	CCV	10-02-2012 02:04	1.00	0.00 mL	0.00 mL	054.D	Liquid	☒	NA
55	ETHENECCV	CCV	10-02-2012 02:13	1.00	0.00 mL	0.00 mL	055.D	Liquid	☒	NA
56	PROPANECCV	CCV	10-02-2012 02:22	1.00	0.00 mL	0.00 mL	056.D	Liquid	☒	NA
57	ACETYLENECCV	CCV	10-02-2012 02:31	1.00	0.00 mL	0.00 mL	057.D	Liquid	☒	NA
58	BLK	SAMP	10-02-2012 02:40	1.00	0.00 mL	0.00 mL	058.D	Liquid	☒	NA

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FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ACETYLENE

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Acetylene	200.000	178.835	89	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ETHANEICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Ethane	310.000	292.025	94	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: ETHENEICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Ethene	283.000	276.881	98	80-120

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Matrix Spike - ENG SC Sample No.: METHANEIC

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT ()	% REC #	QC. LIMITS REC.
Methane	239.000	208.530	87	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS:

FORM III GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1821 1924

LAB FILE ID: RF5: 002 RF10: 003 RF20: 004
RF40: 005 RF60: 006 RF80: 007

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Methane	56.250	66.875	60.917	62.259	57.208	51.799

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1821 1924

LAB FILE ID: RF100: 008 RF0: 009

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Methane	50.873	62.355	AVRG	58.5670374	9.457	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1941 2044

LAB FILE ID: RF5: 011 RF10: 012 RF20: 013
RF40: 014 RF60: 015 RF80: 016

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Ethane	59.355	73.419	61.677	60.839	80.516	63.987

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1941 2044

LAB FILE ID: RF100: 017 RF0: 018

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Ethane	56.461		AVRG	65.1791705	13.221	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 2102 2204

LAB FILE ID: RF5: 020 RF10: 021 RF20: 022
RF40: 023 RF60: 024 RF80: 025

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Ethene	112.676	102.958	78.451	88.622	92.085	81.208

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/01/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 2102 2204

LAB FILE ID: RF100: 026 RF0: 027

COMPOUND	RF100	RF0	CURVE	COEFFICENT A1	%RSD OR R^2	MAX %RSD OR R^2
Ethene	71.116	89.696	AVRG	89.6014920	14.940	20.000

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/02/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 2342 0044

LAB FILE ID: RF5: 038 RF10: 039 RF20: 040
RF40: 041 RF60: 042 RF80: 043

COMPOUND	RF5	RF10	RF20	RF40	RF60	RF80
Acetylene	219	663	1377	3281	7114	13645

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/02/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 2342 0044

LAB FILE ID: RF100: 044 RF0: 045

COMPOUND	RF100	RF0
Acetylene	33311	70028

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date(s): 10/01/12 10/02/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 2342 0044

COMPOUND	CURVE	COEFFICENTS A0	A1	A2	%RSD OR R^2	MAX %RSD OR R^2
Acetylene	2ORDR	-2.2338661	1.544e-002	-1.6e-008	0.9998658	0.9900000

FORM VI GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 10/02/12 Time: 0156

Lab File ID: 053 Init. Calib. Date(s): 10/01/12 10/01/12

Init. Calib. Times: 1821 1924

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Methane	58.567000	61.552301	0.01	-5.10	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 10/02/12 Time: 0204

Lab File ID: 054 Init. Calib. Date(s): 10/01/12 10/01/12

Init. Calib. Times: 1941 2044

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Ethane	65.179000	77.096774	0.01	-18.28	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 10/02/12 Time: 0213

Lab File ID: 055 Init. Calib. Date(s): 10/01/12 10/01/12

Init. Calib. Times: 2102 2204

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF OR AMOUNT	RRF80.000 OR AMOUNT	MIN RRF	%D OR %DRIFT	MAX %D OR %DRIFT	CURV TYPE
Ethene	89.602000	91.561837	0.01	-2.19	20.00	AVRG

FORM VII GASES

FORM 7B
GASES CALIBRATION VERIFICATION SUMMARY

Lab Name: ALS GROUP Contract:

Lab Code: Case No.: SAS No.: SDG No.: 1209887

Instrument ID: FID-17 Calibration Date: 10/02/12 Time: 0231

Lab File ID: 057 Init. Calib. Date(s): 10/01/12 10/02/12

Init. Calib. Times: 2342 0044

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	RRF or AMOUNT	RRF80.000 or AMOUNT	CCAL RRF80.000	MIN RRF	%D or %DRIFT	MAX %D or %DRIFT	CURV TYPE
Acetylene	181.09488	200.00000	60.100000	0.01	9.45	20.00	2RDR

FORM VII GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\002.D
Lab Smp Id: METHANE1 Client Smp ID: METHANE1
Inj Date : 01-OCT-2012 18:21
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE1;METHANE1;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:11 Cal File: 020.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

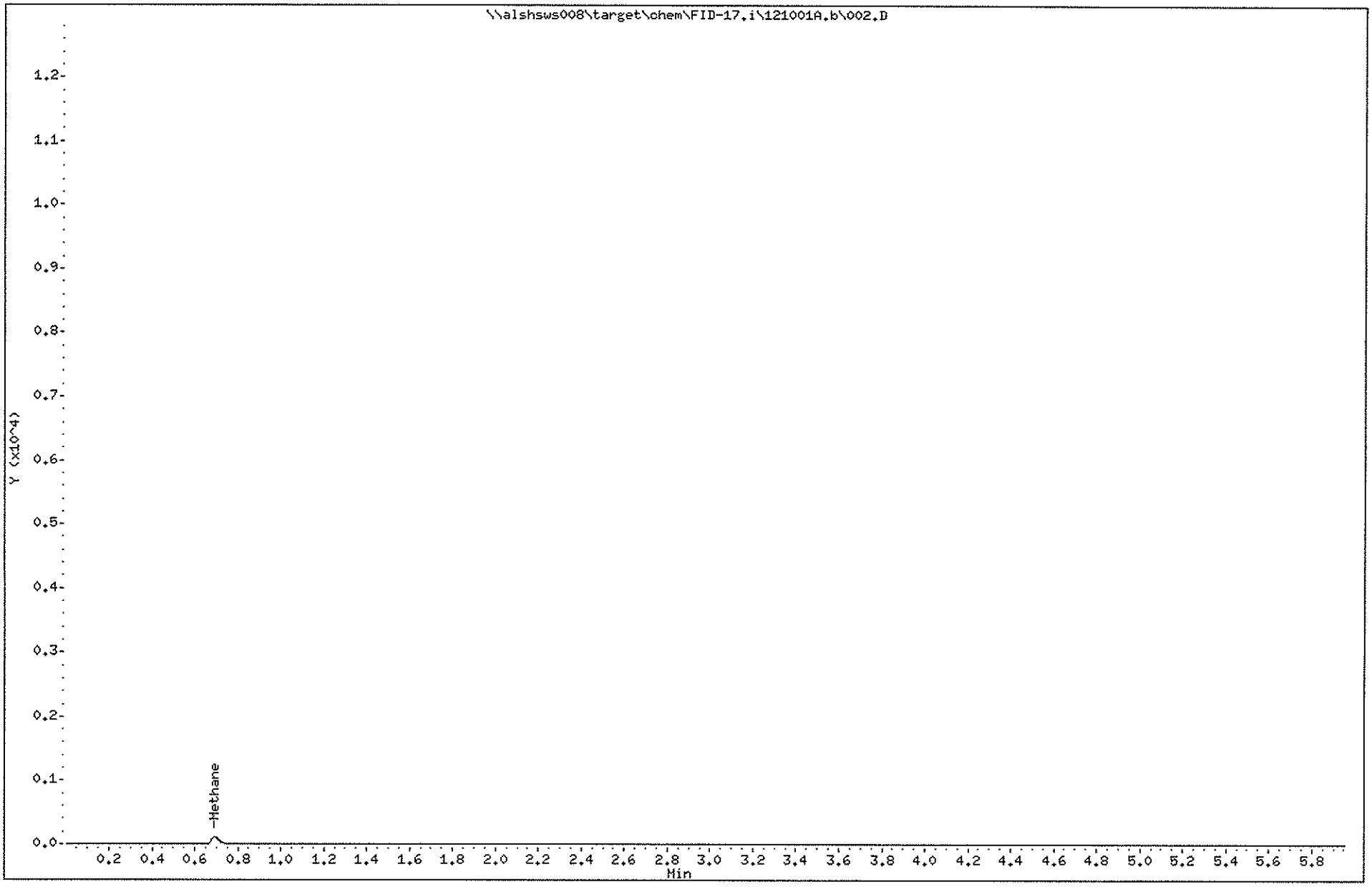
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.693	0.690	0.003	270	4.80000	

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\002.D
Date : 01-OCT-2012 18:21
Client ID: METHANE1
Sample Info: METHANE1;METHANE1;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\003.D
Lab Smp Id: METHANE2 Client Smp ID: METHANE2
Inj Date : 01-OCT-2012 18:30
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE2;METHANE2;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:20 Cal File: 021.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

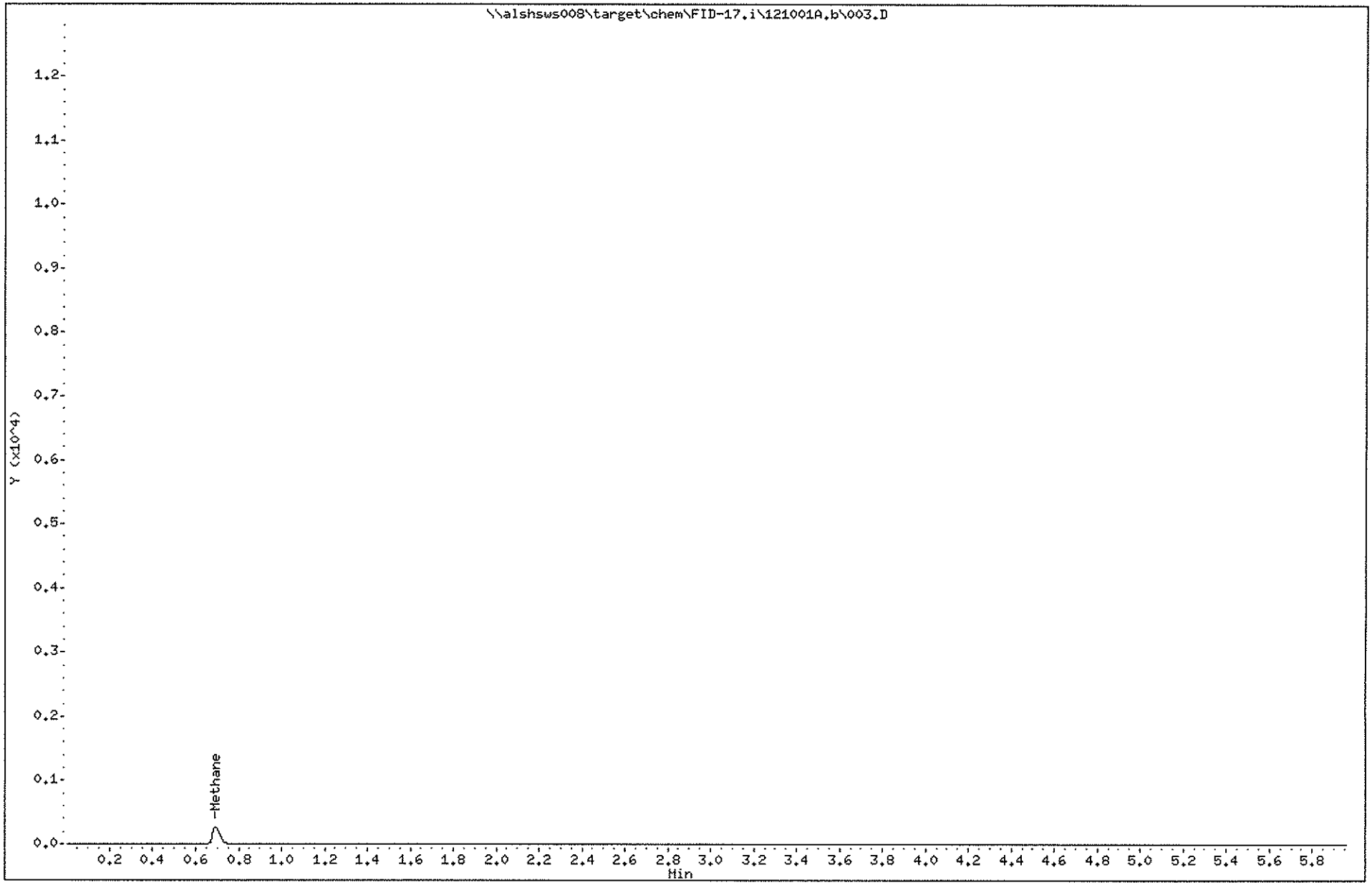
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.693	0.690	0.003	642	9.60000	11.413

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\003.D
Date : 01-OCT-2012 18:30
Client ID: METHANE2
Sample Info: METHANE2;METHANE2;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\004.D
Lab Smp Id: METHANE3 Client Smp ID: METHANE3
Inj Date : 01-OCT-2012 18:39
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE3;METHANE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:29 Cal File: 022.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

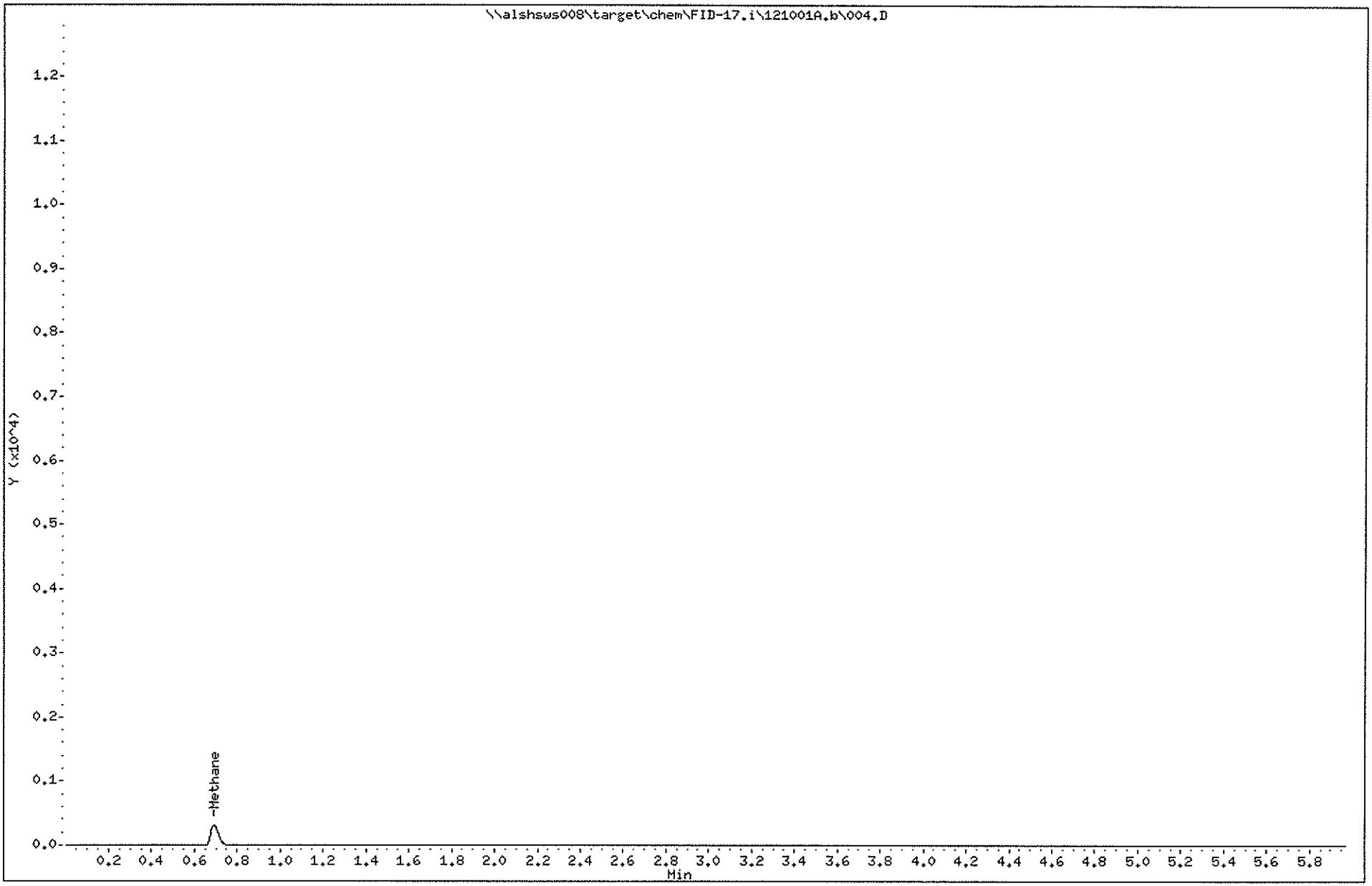
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.693	0.690	0.003	731	12.0000	11.874

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\004.D
Date : 01-OCT-2012 18:39
Client ID: METHANE3
Sample Info: METHANE3;METHANE3;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

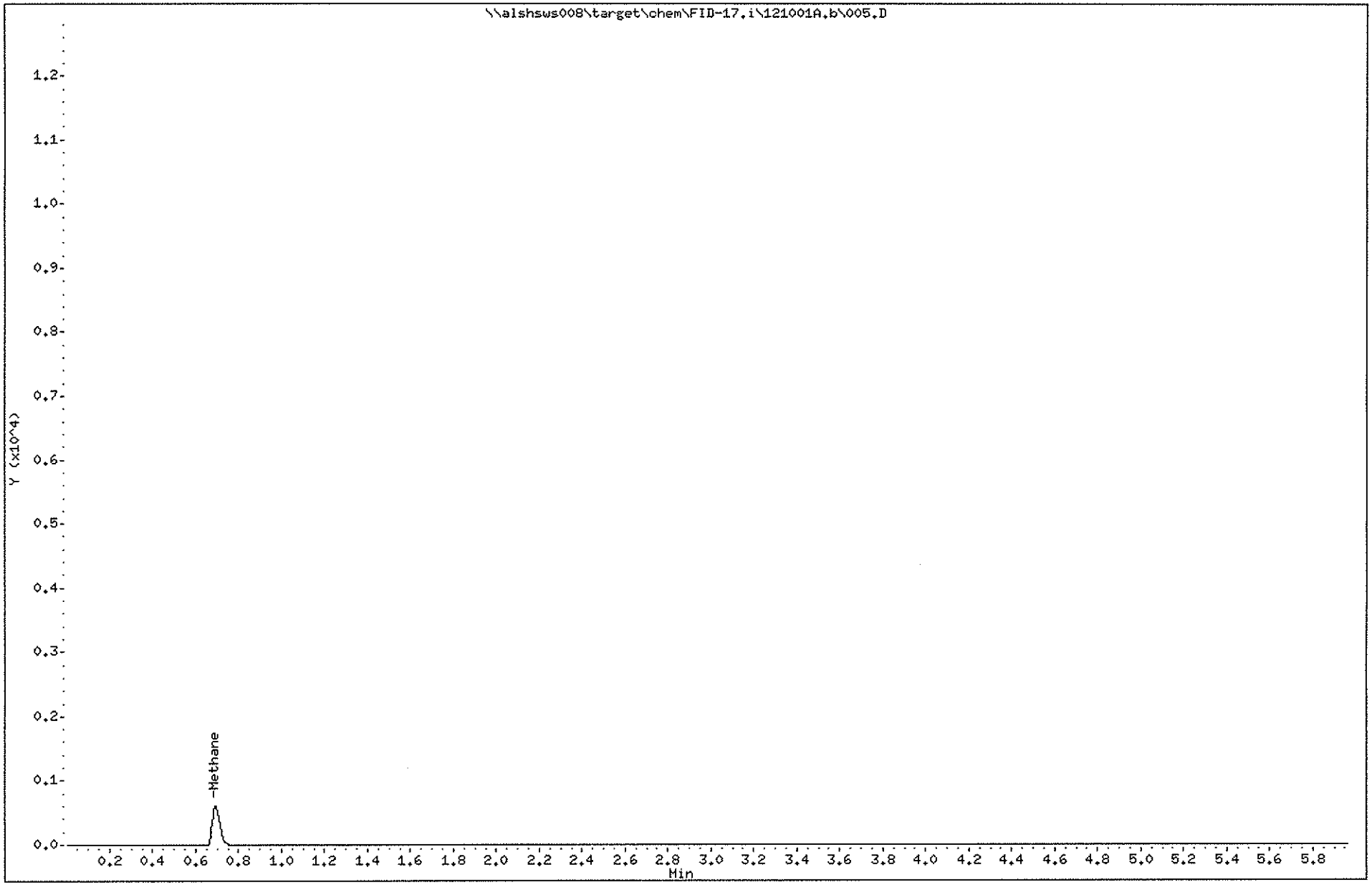
Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\005.D
Lab Smp Id: METHANE4 Client Smp ID: METHANE4
Inj Date : 01-OCT-2012 18:48
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE4;METHANE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:38 Cal File: 023.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.689	0.690	-0.001	1488	23.9000	24.255

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\005.D
Date : 01-OCT-2012 18:48
Client ID: METHANE4
Sample Info: METHANE4;METHANE4;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\006.D
Lab Smp Id: METHANE5 Client Smp ID: METHANE5
Inj Date : 01-OCT-2012 18:57
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE5;METHANE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:47 Cal File: 024.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.693	0.690	0.003	6865	120.000	111.489(A)

QC Flag Legend

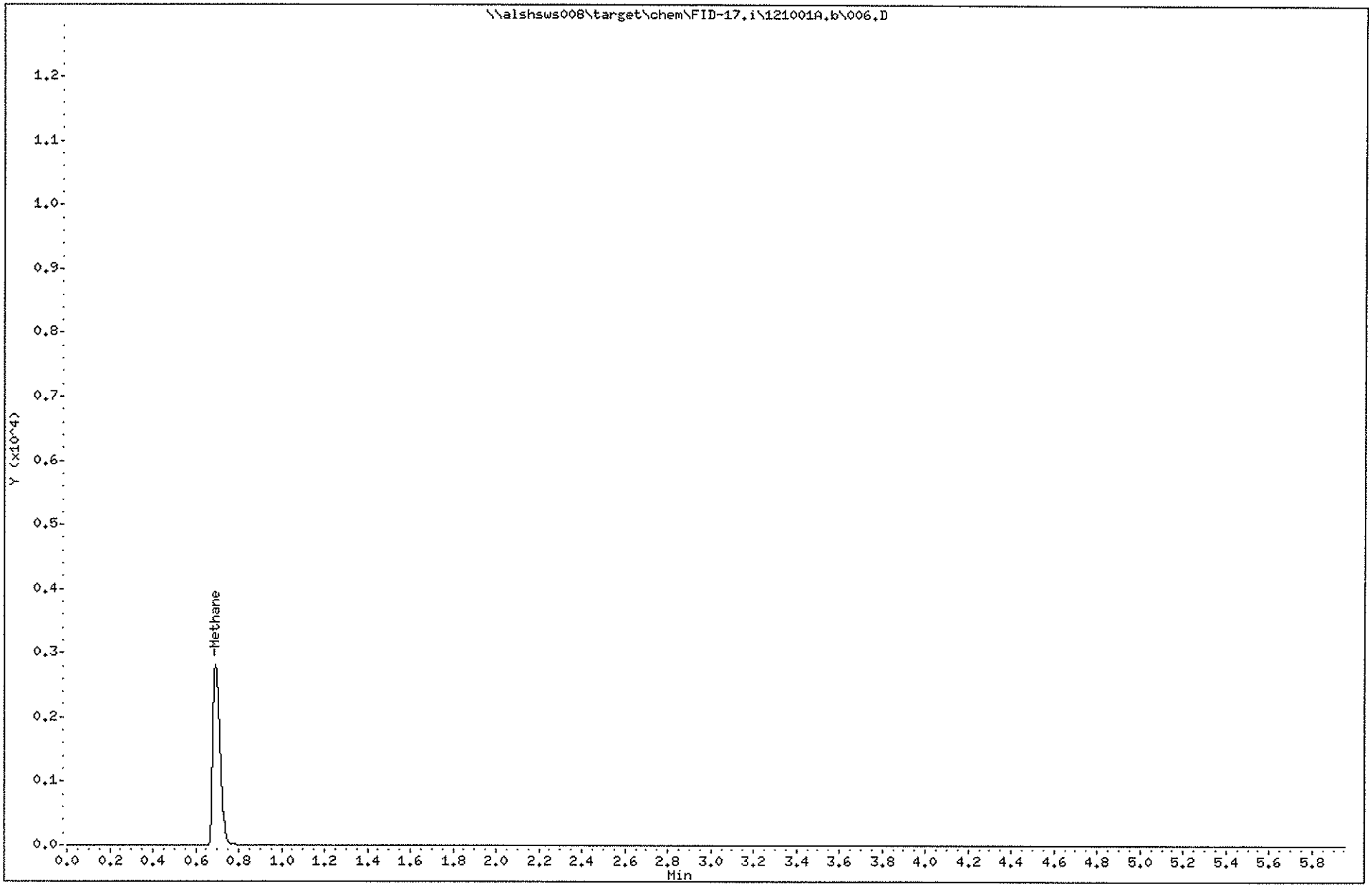
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\006.D
Date : 01-OCT-2012 18:57
Client ID: METHANE5
Sample Info: METHANE5;METHANE5;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\007.D
Lab Smp Id: METHANE6 Client Smp ID: METHANE6
Inj Date : 01-OCT-2012 19:06
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE6;METHANE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:56 Cal File: 025.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.690	0.690	0.000	12380	239.000	203.947(A)

QC Flag Legend

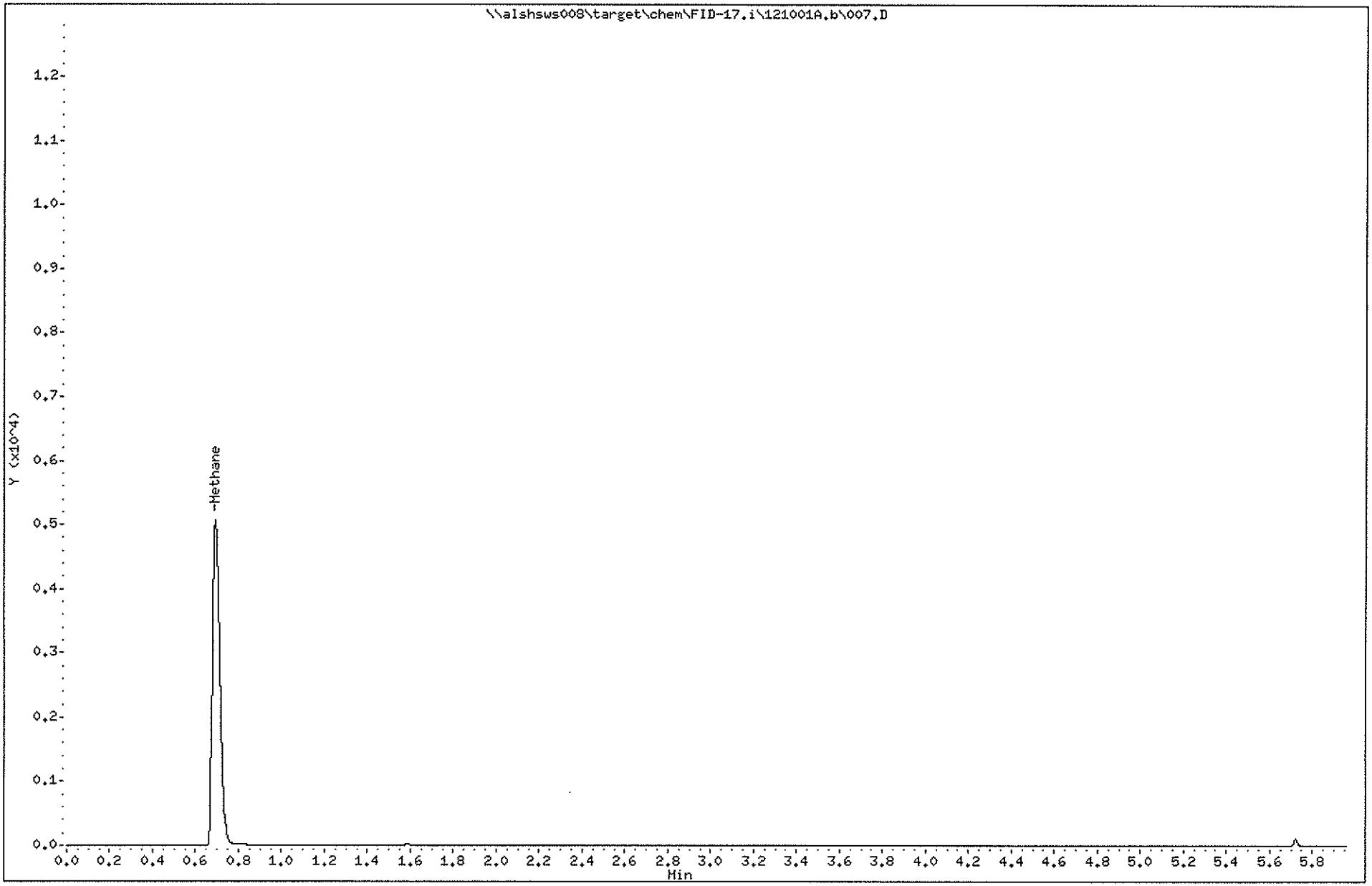
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\007.D
Date : 01-OCT-2012 19:06
Client ID: METHANE6
Sample Info: METHANE6;METHANE6;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\008.D
Lab Smp Id: METHANE7 Client Smp ID: METHANE7
Inj Date : 01-OCT-2012 19:15
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE7;METHANE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:04 Cal File: 026.D
Als bottle: 8 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.689	0.690	-0.001	30422	598.000	513.728(A)

QC Flag Legend

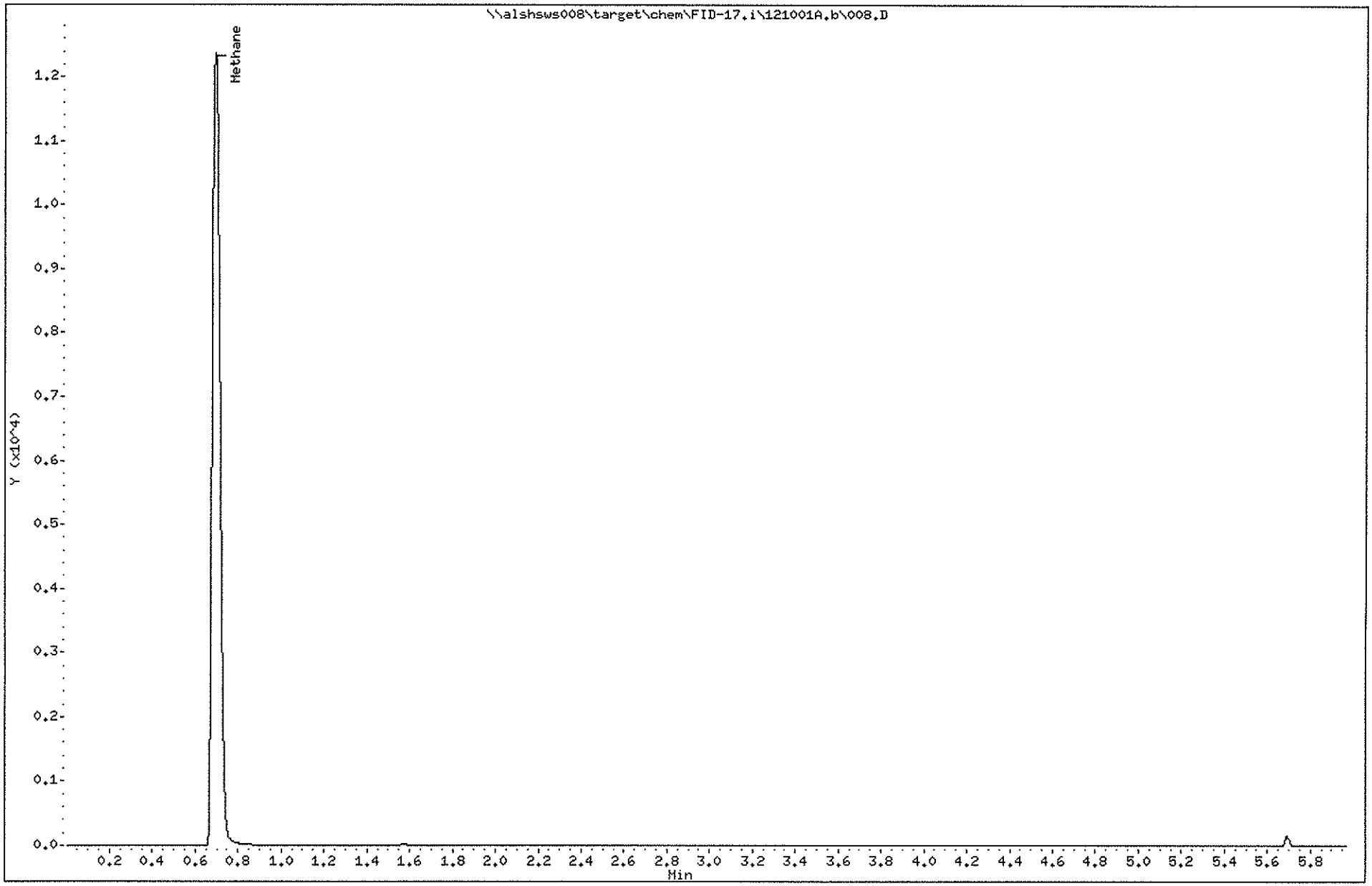
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\008.D
Date : 01-OCT-2012 19:15
Client ID: METHANE7
Sample Info: METHANE7;METHANE7;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\009.D
Lab Smp Id: METHANE8 Client Smp ID: METHANE8
Inj Date : 01-OCT-2012 19:24
Operator : JA Inst ID: FID-17.i
Smp Info : METHANE8;METHANE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:13 Cal File: 027.D
Als bottle: 9 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.693	0.690	0.003	149028	2390.00	2568.300(A)

QC Flag Legend

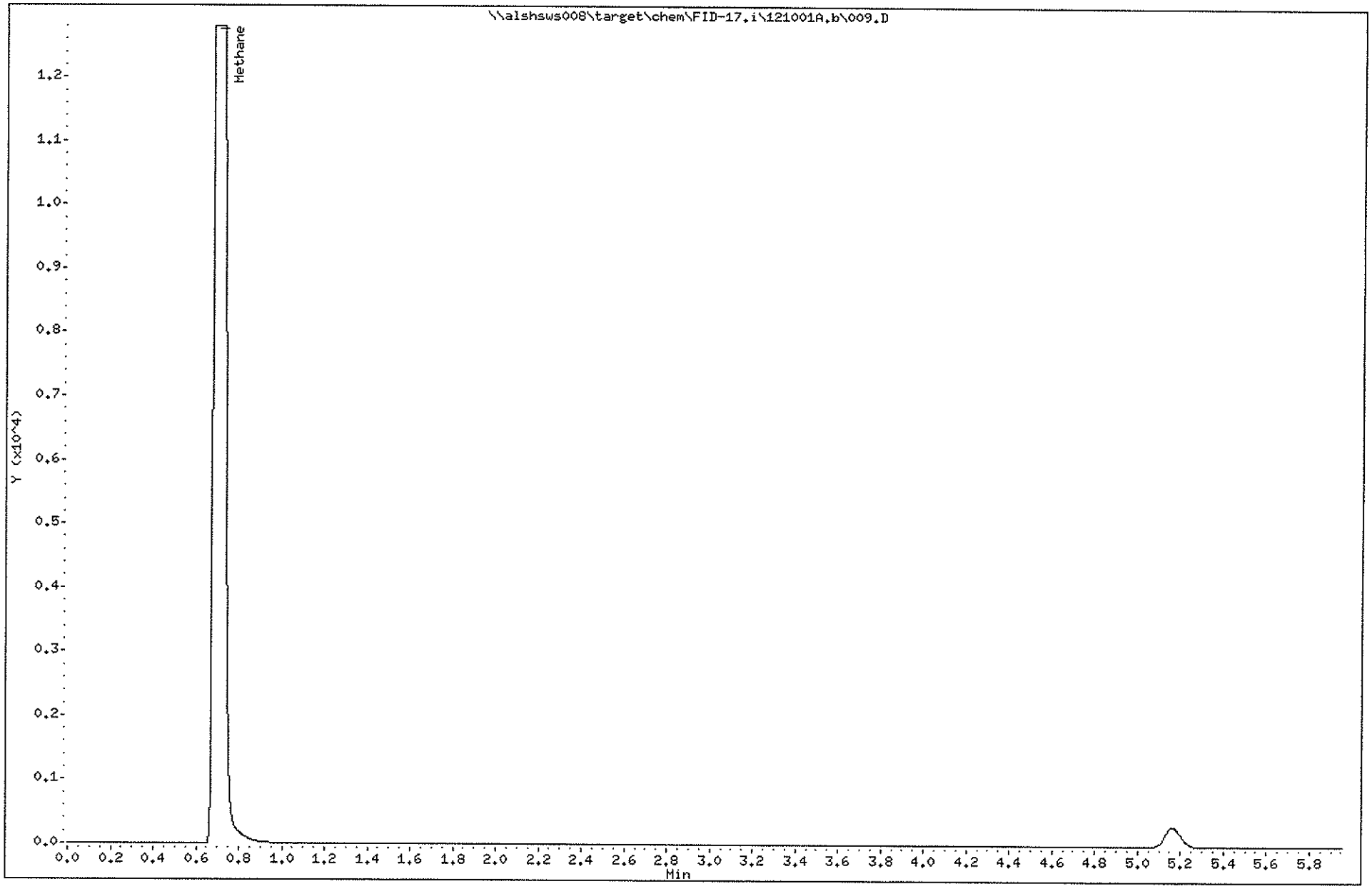
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\009.D
Date : 01-OCT-2012 19:24
Client ID: METHANE8
Sample Info: METHANE8;METHANE8;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\010.D
Lab Smp Id: METHANEICV Client Smp ID: METHANEICV
Inj Date : 01-OCT-2012 19:32
Operator : JA Inst ID: FID-17.i
Smp Info : METHANEICV;METHANEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 10 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	0.689	0.690	-0.001	12213	208.530	208.530(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

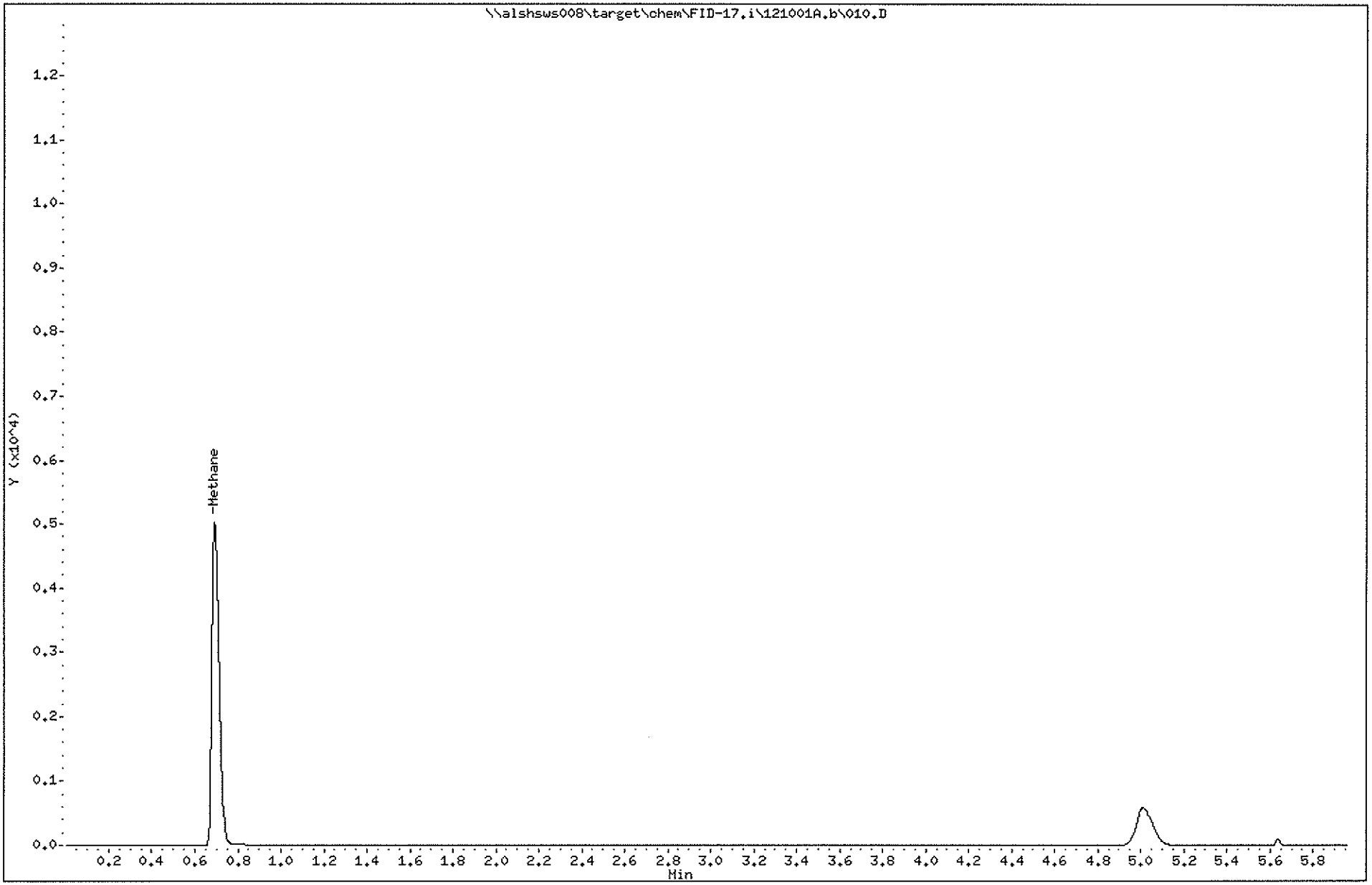
Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\010.D
Date : 01-OCT-2012 19:32
Client ID: METHANEICV
Sample Info: METHANEICV;METHANEICV;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\011.D
Lab Smp Id: ETHANE1 Client Smp ID: ETHANE1
Inj Date : 01-OCT-2012 19:41
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE1;ETHANE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:13 Cal File: 027.D
Als bottle: 11 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.826	0.826	0.000	92	1.55000	1.411(M)

QC Flag Legend

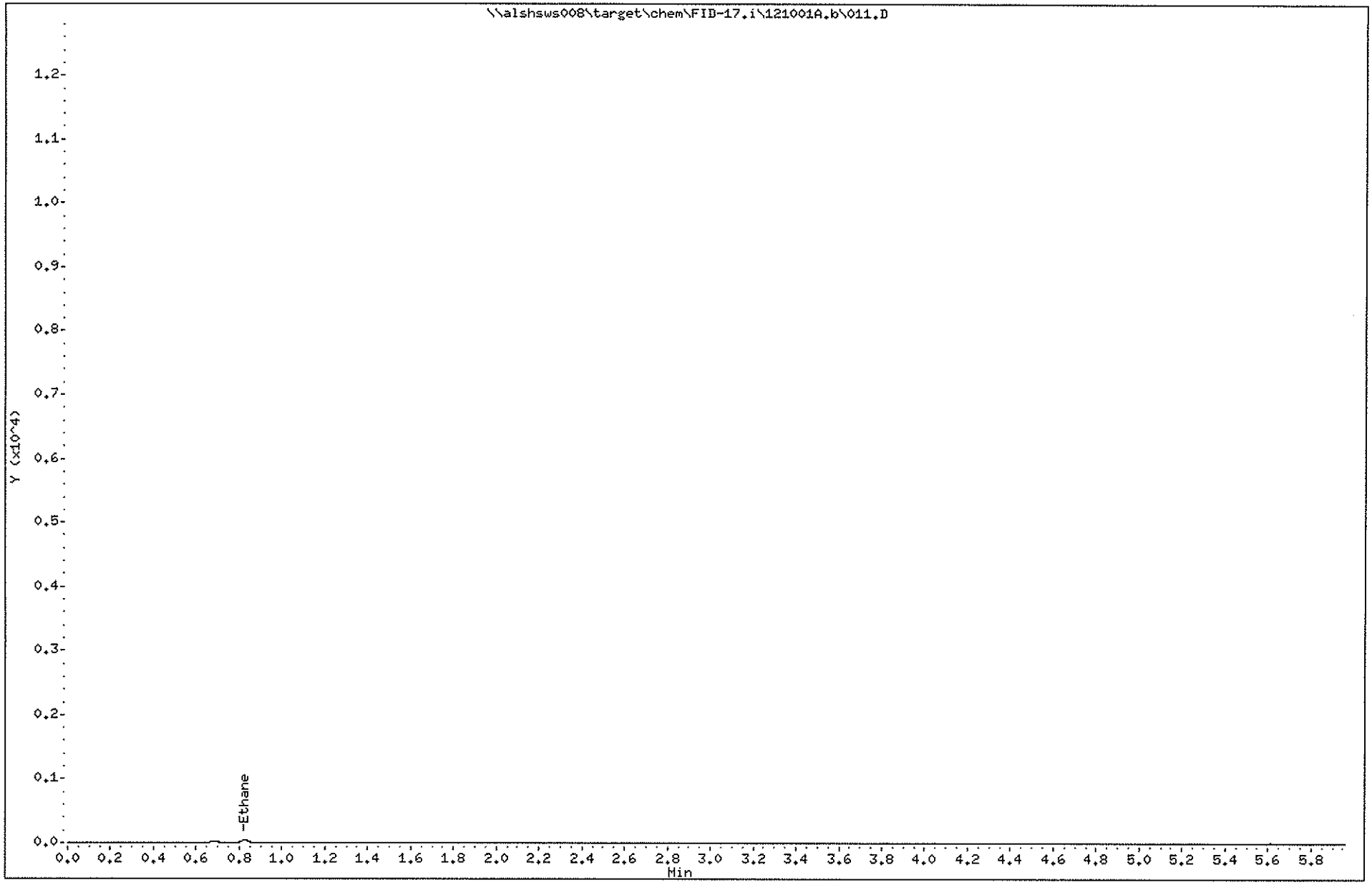
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\011.D
Date : 01-OCT-2012 19:41
Client ID: ETHANE1
Sample Info: ETHANE1;ETHANE1;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\012.D
Lab Smp Id: ETHANE2 Client Smp ID: ETHANE2
Inj Date : 01-OCT-2012 19:50
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE2;ETHANE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:20 Cal File: 021.D
Als bottle: 12 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.823	0.826	-0.003	569	7.75000	9.586

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\012.D
Date : 01-OCT-2012 19:50
Client ID: ETHANE2
Sample Info: ETHANE2;ETHANE2;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\013.D
Lab Smp Id: ETHANE3 Client Smp ID: ETHANE3
Inj Date : 01-OCT-2012 19:59
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE3;ETHANE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:29 Cal File: 022.D
Als bottle: 13 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

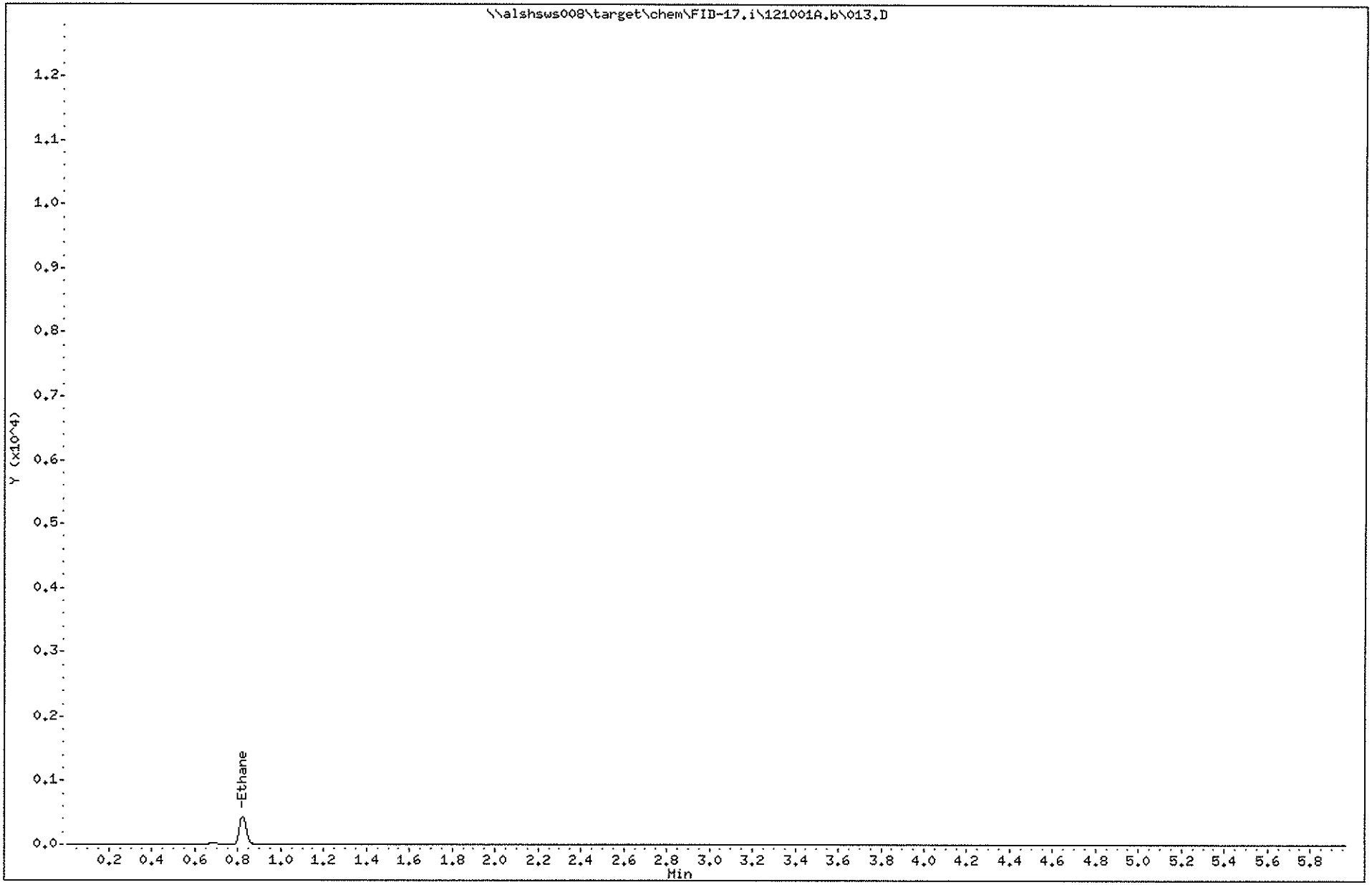
Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.823	0.826	-0.003	956	15.5000	14.400

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\013.D
Date : 01-OCT-2012 19:59
Client ID: ETHANE3
Sample Info: ETHANE3;ETHANE3;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\014.D
Lab Smp Id: ETHANE4 Client Smp ID: ETHANE4
Inj Date : 01-OCT-2012 20:08
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE4;ETHANE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:38 Cal File: 023.D
Als bottle: 14 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

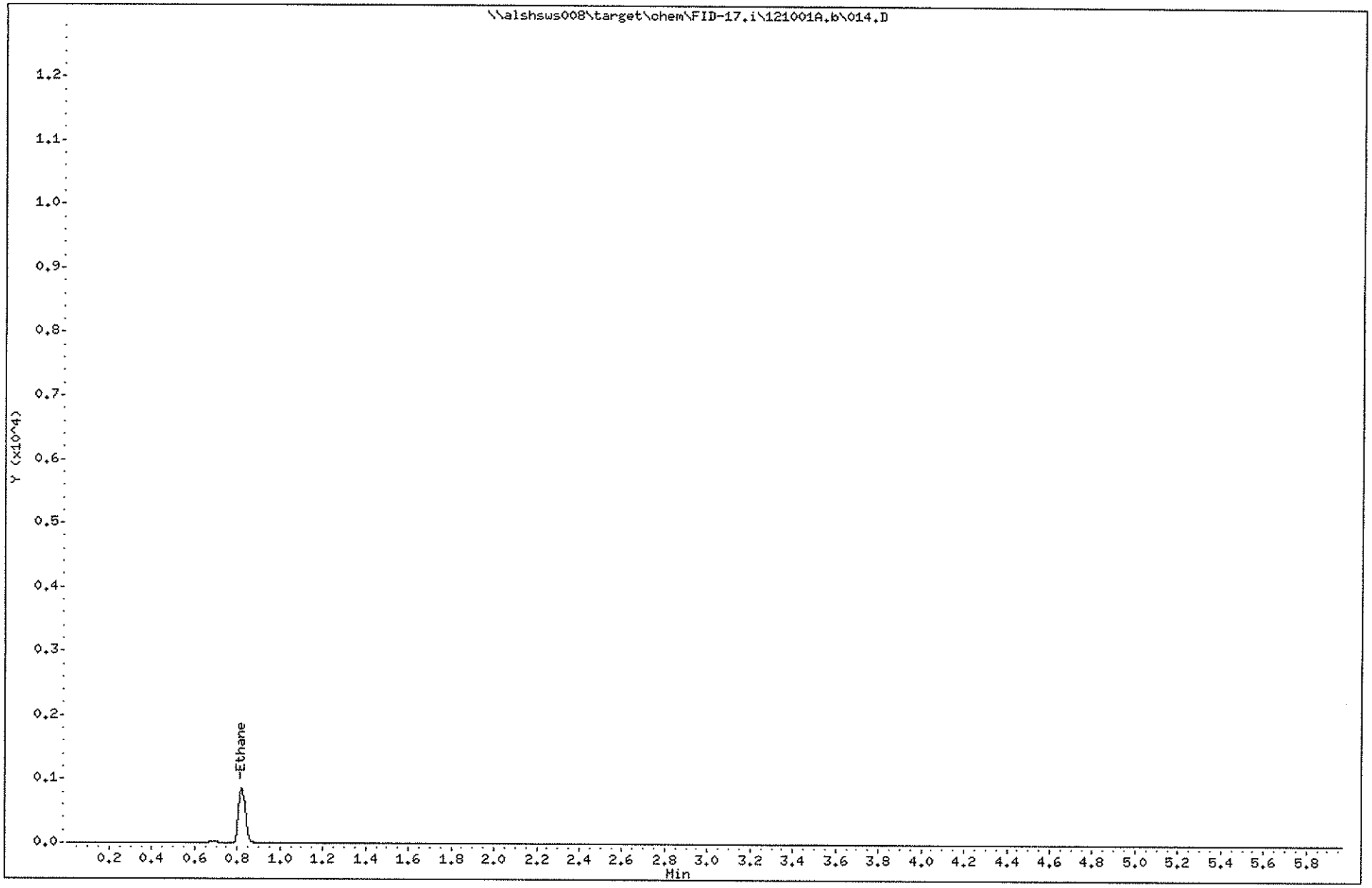
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.819	0.826	-0.007	1886	31.0000	29.097

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\014.D
Date : 01-OCT-2012 20:08
Client ID: ETHANE4
Sample Info: ETHANE4;ETHANE4;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\015.D
Lab Smp Id: ETHANE5 Client Smp ID: ETHANE5
Inj Date : 01-OCT-2012 20:17
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE5;ETHANE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:47 Cal File: 024.D
Als bottle: 15 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.819	0.826	-0.007	12480	155.000	195.542(A)

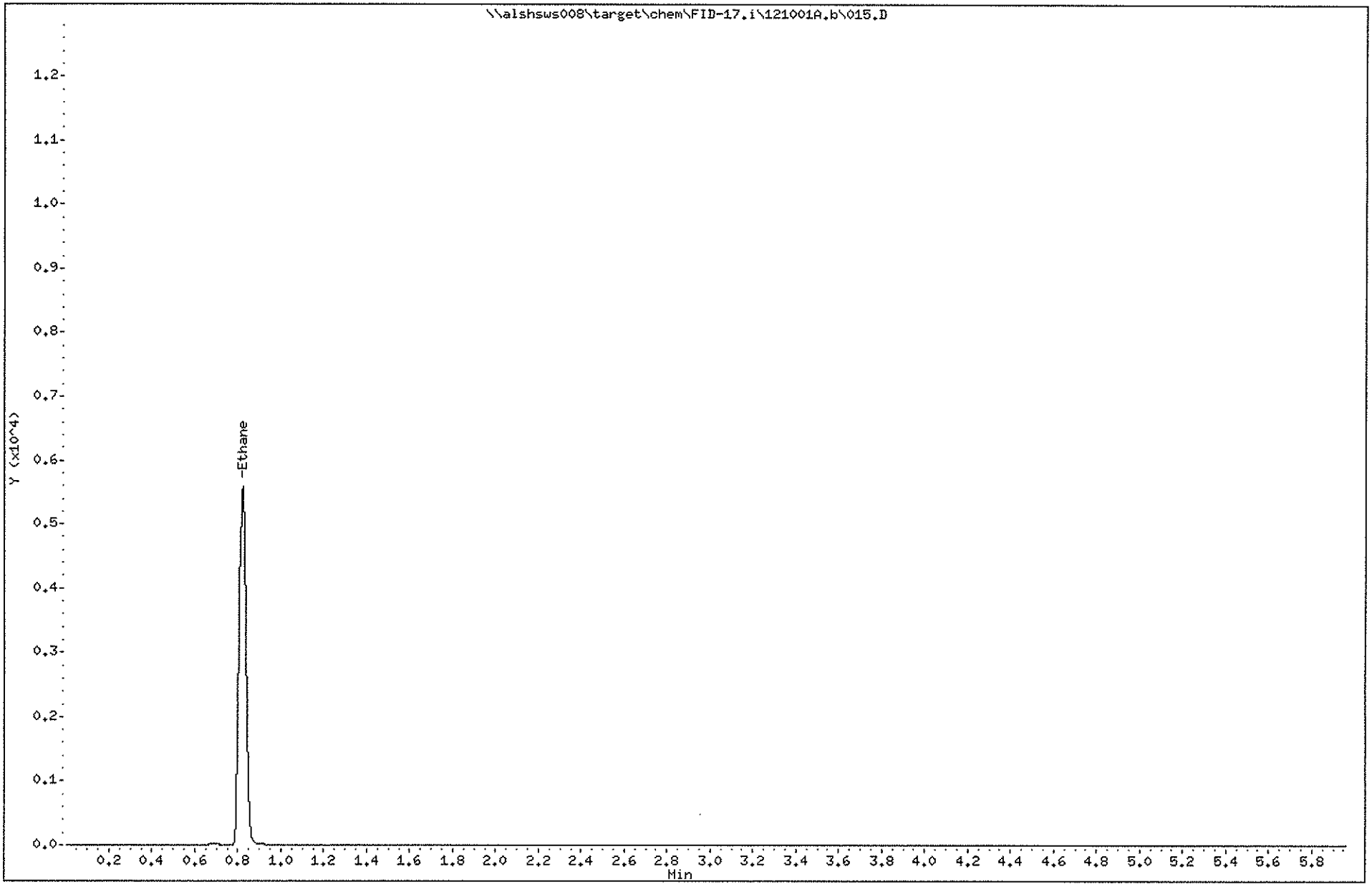
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\015.D
Date : 01-OCT-2012 20:17
Client ID: ETHANE5
Sample Info: ETHANE5;ETHANE5;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\016.D
Lab Smp Id: ETHANE6 Client Smp ID: ETHANE6
Inj Date : 01-OCT-2012 20:26
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE6;ETHANE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 15:56 Cal File: 025.D
Als bottle: 16 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.816	0.826	-0.010	19836	310.000	295.348(A)

QC Flag Legend

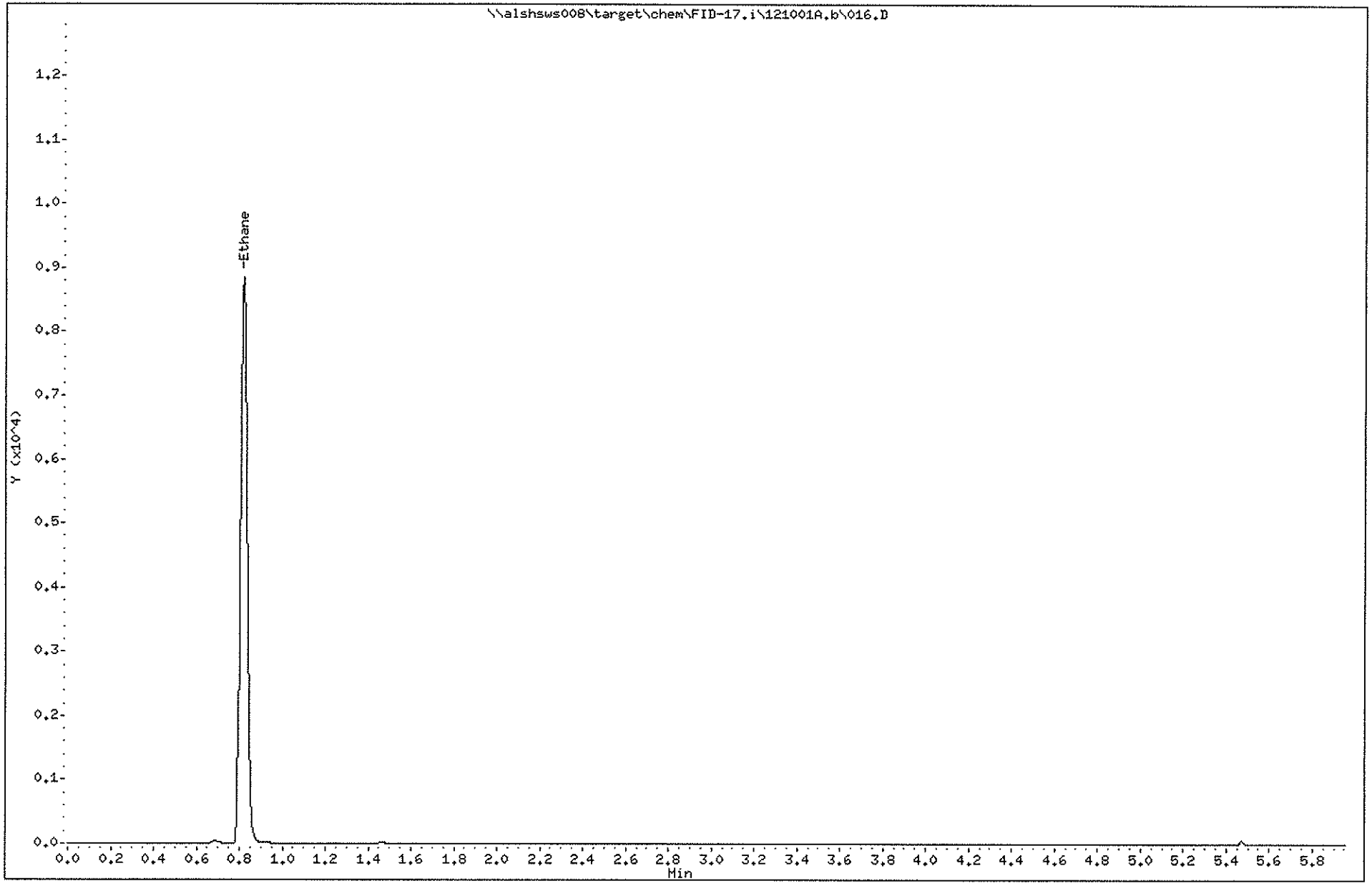
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\016.D
Date : 01-OCT-2012 20:26
Client ID: ETHANE6
Sample Info: ETHANE6;ETHANE6;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\017.D
Lab Smp Id: ETHANE7 Client Smp ID: ETHANE7
Inj Date : 01-OCT-2012 20:35
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE7;ETHANE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:04 Cal File: 026.D
Als bottle: 17 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.813	0.826	-0.013	43757	775.000	656.693(A)

QC Flag Legend

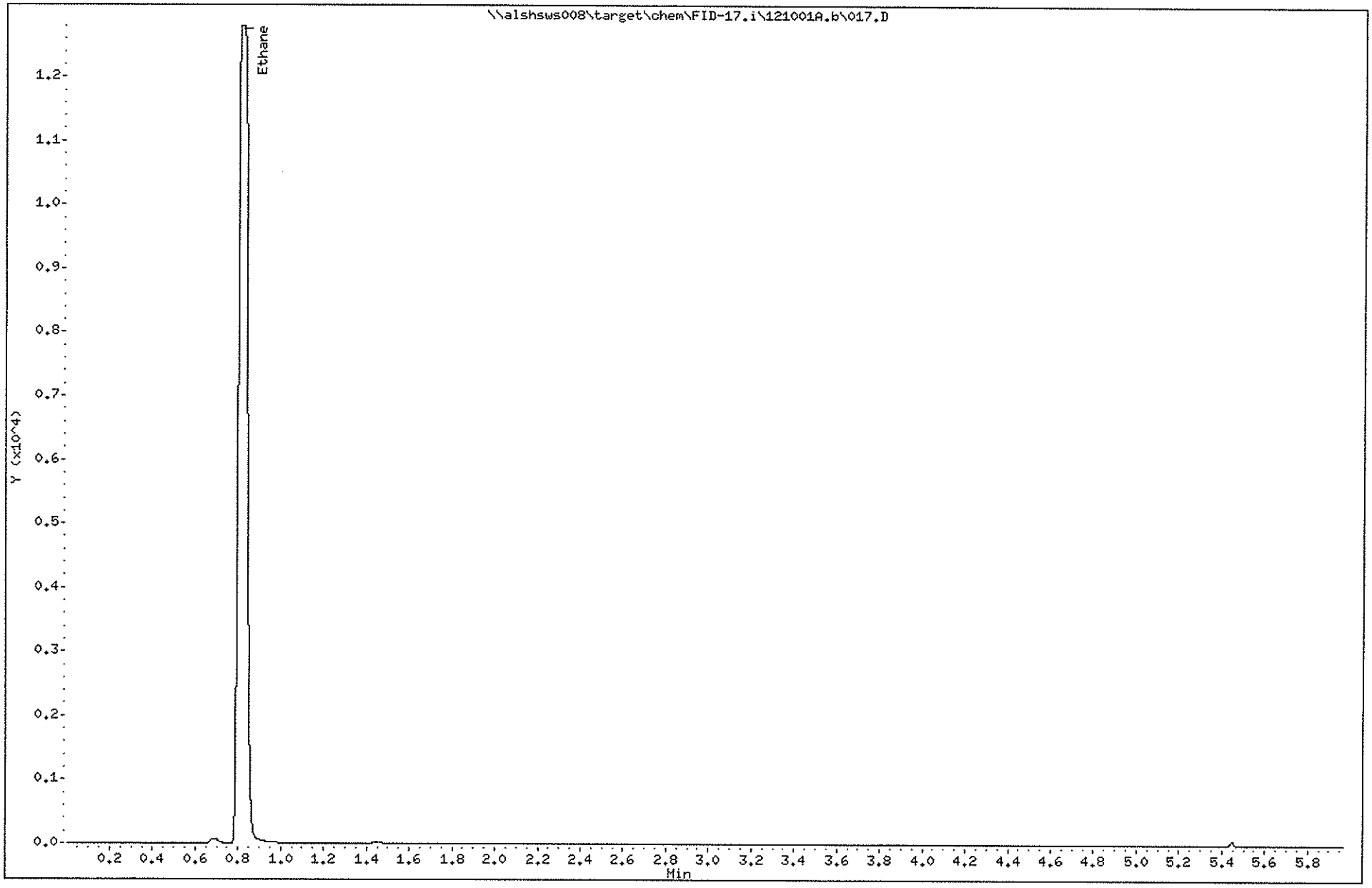
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\017.D
Date : 01-OCT-2012 20:35
Client ID: ETHANE7
Sample Info: ETHANE7;ETHANE7;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\018.D
Lab Smp Id: ETHANE8 Client Smp ID: ETHANE8
Inj Date : 01-OCT-2012 20:44
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANE8;ETHANE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:13 Cal File: 027.D
Als bottle: 18 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.893	0.826	0.067	1332	3100.00	20.435

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\018.D

Date : 01-OCT-2012 20:44

Client ID: ETHANE8

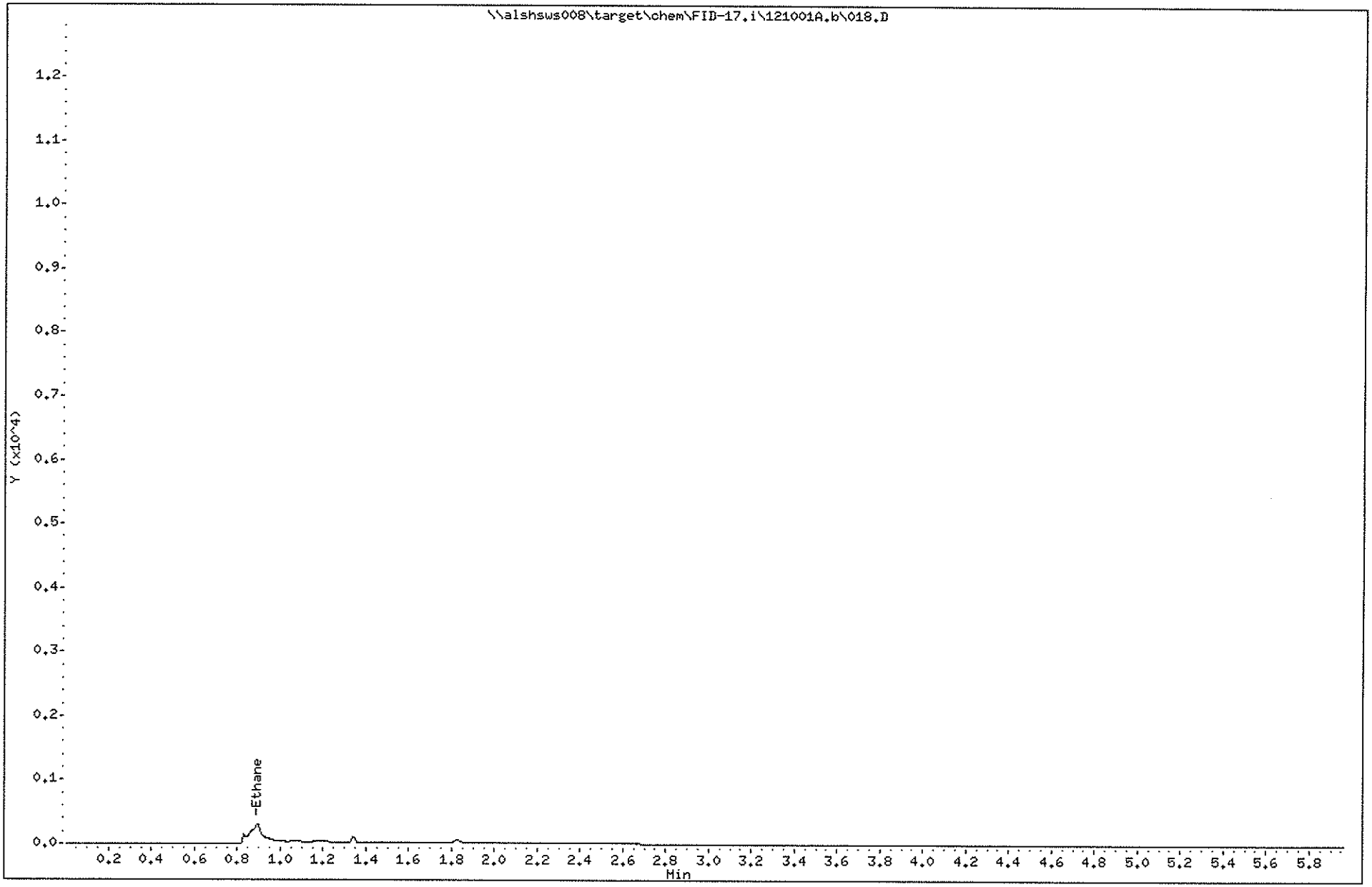
Sample Info: ETHANE8;ETHANE8;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\019.D
Lab Smp Id: ETHANEICV Client Smp ID: ETHANEICV
Inj Date : 01-OCT-2012 20:53
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANEICV;ETHANEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 19 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
3 Ethane	0.736	0.826	-0.090	19034	292.026	292.025(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\019.D

Date : 01-OCT-2012 20:53

Client ID: ETHANEICV

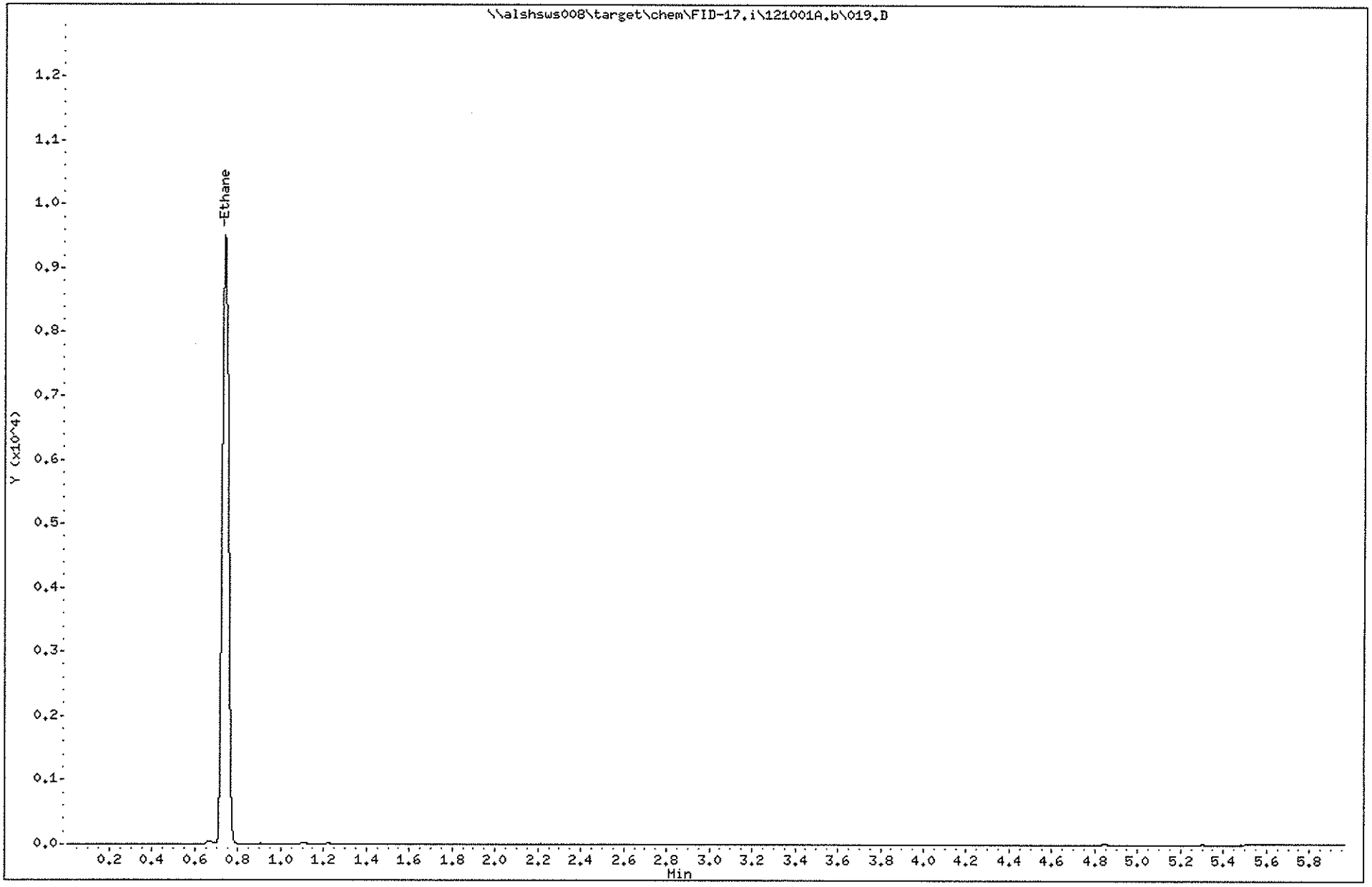
Sample Info: ETHANEICV;ETHANEICV;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\020.D
Lab Smp Id: ETHENE1 Client Smp ID: ETHENE1
Inj Date : 01-OCT-2012 21:02
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE1;ETHENE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:13 Cal File: 027.D
Als bottle: 20 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
2 Ethene	0.699	0.886	-0.187	160	1.42000		(M)

QC Flag Legend

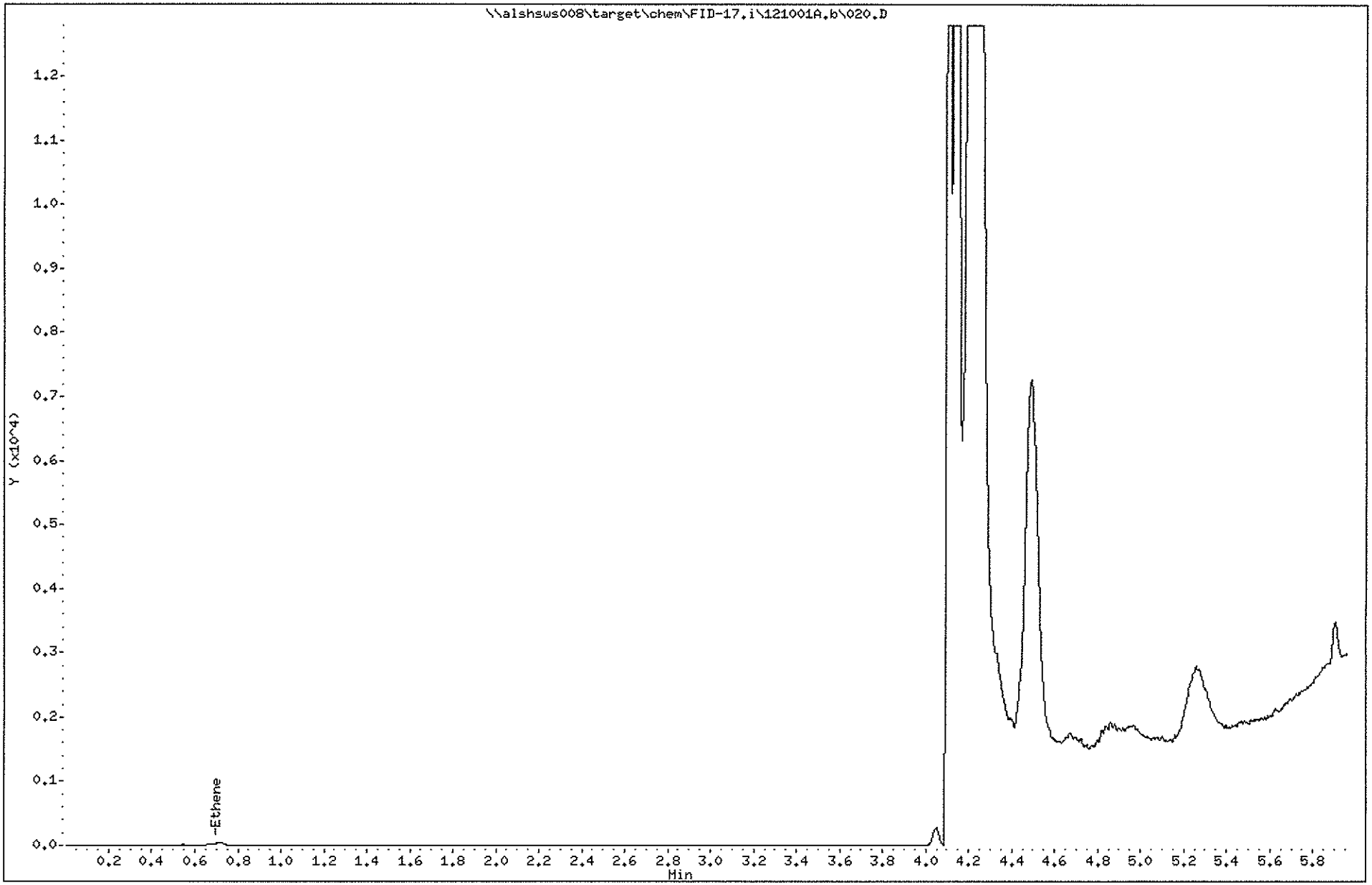
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\020.D
Date : 01-OCT-2012 21:02
Client ID: ETHENE1
Sample Info: ETHENE1;ETHENE1;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\021.D
Lab Smp Id: ETHENE2 Client Smp ID: ETHENE2
Inj Date : 01-OCT-2012 21:10
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE2;ETHENE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 11-AUG-2012 16:13 Cal File: 027.D
Als bottle: 21 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.716	0.886	-0.170	731	7.10000	6.487(AM)

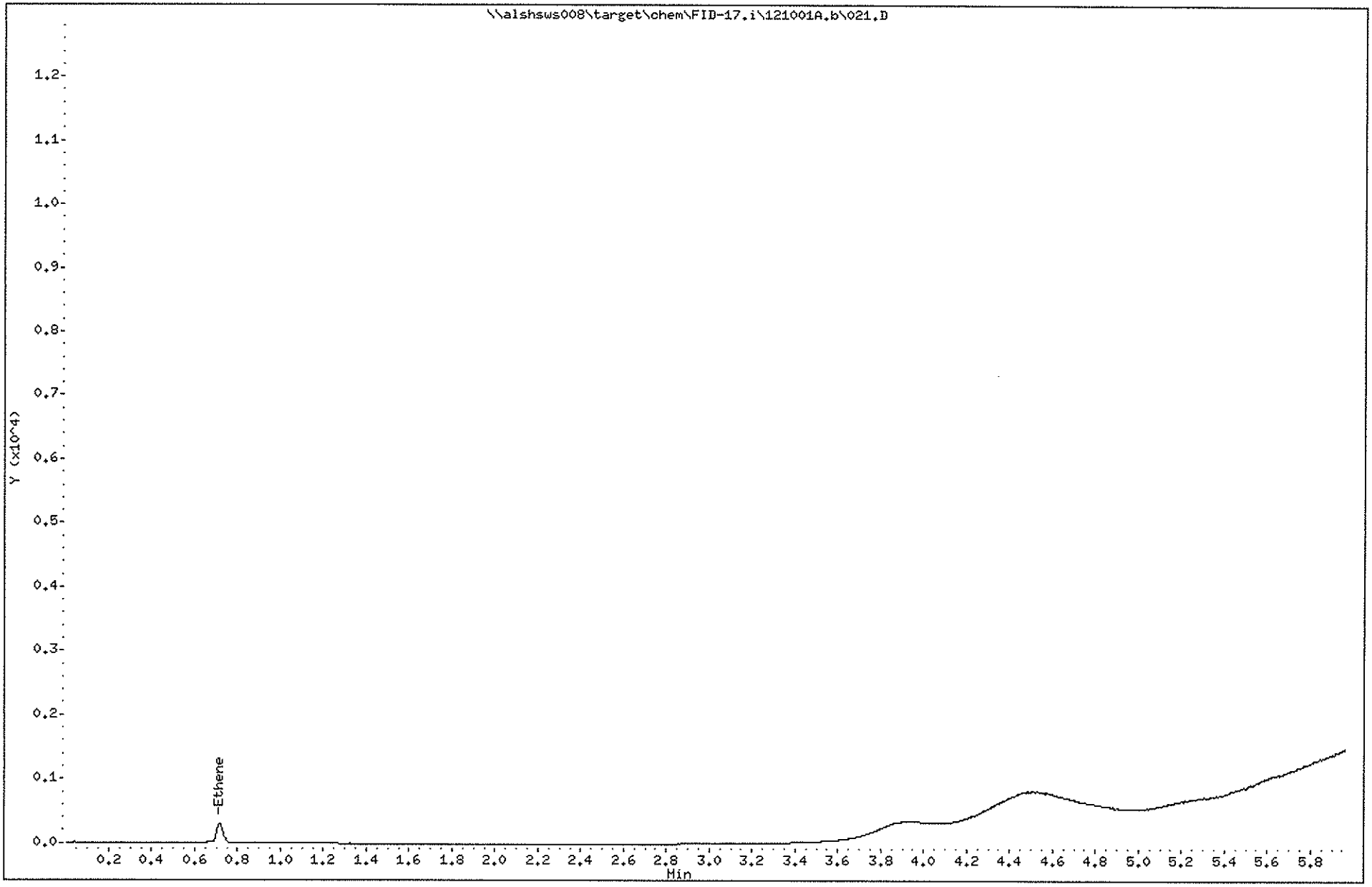
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\021.D
Date : 01-OCT-2012 21:10
Client ID: ETHENE2
Sample Info: ETHENE2;ETHENE2;;;;

Instrument: FID-17.i

Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\022.D
Lab Smp Id: ETHENE3 Client Smp ID: ETHENE3
Inj Date : 01-OCT-2012 21:19
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE3;ETHENE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:19 Cal File: 022.D
Als bottle: 22 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

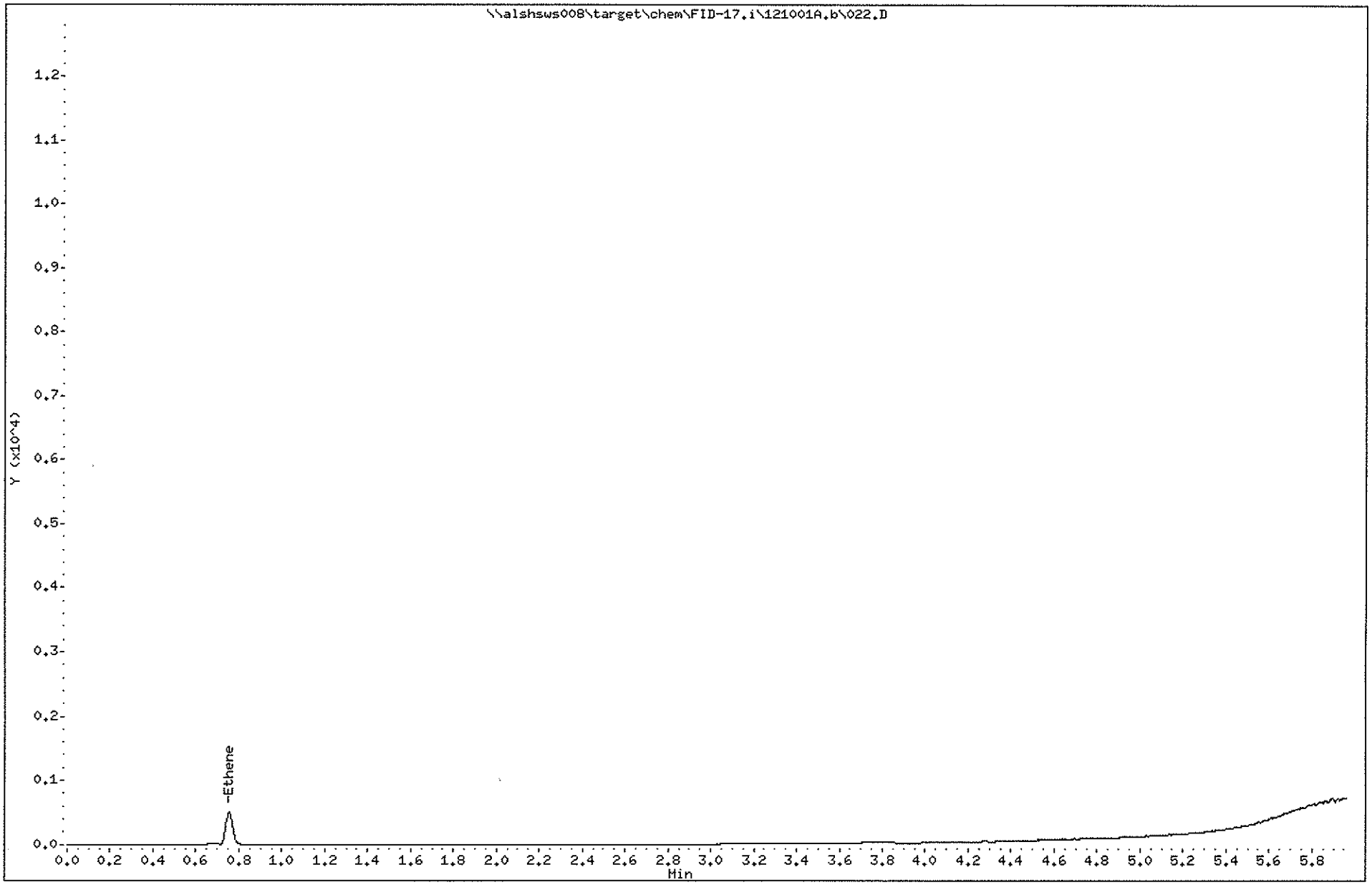
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.753	0.886	-0.133	1114	14.2000	10.332(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\022.D
Date : 01-OCT-2012 21:19
Client ID: ETHENE3
Sample Info: ETHENE3;ETHENE3;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\023.D
Lab Smp Id: ETHENE4 Client Smp ID: ETHENE4
Inj Date : 01-OCT-2012 21:28
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE4;ETHENE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:28 Cal File: 023.D
Als bottle: 23 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.793	0.886	-0.093	2508	28.3000	25.584(A)

QC Flag Legend

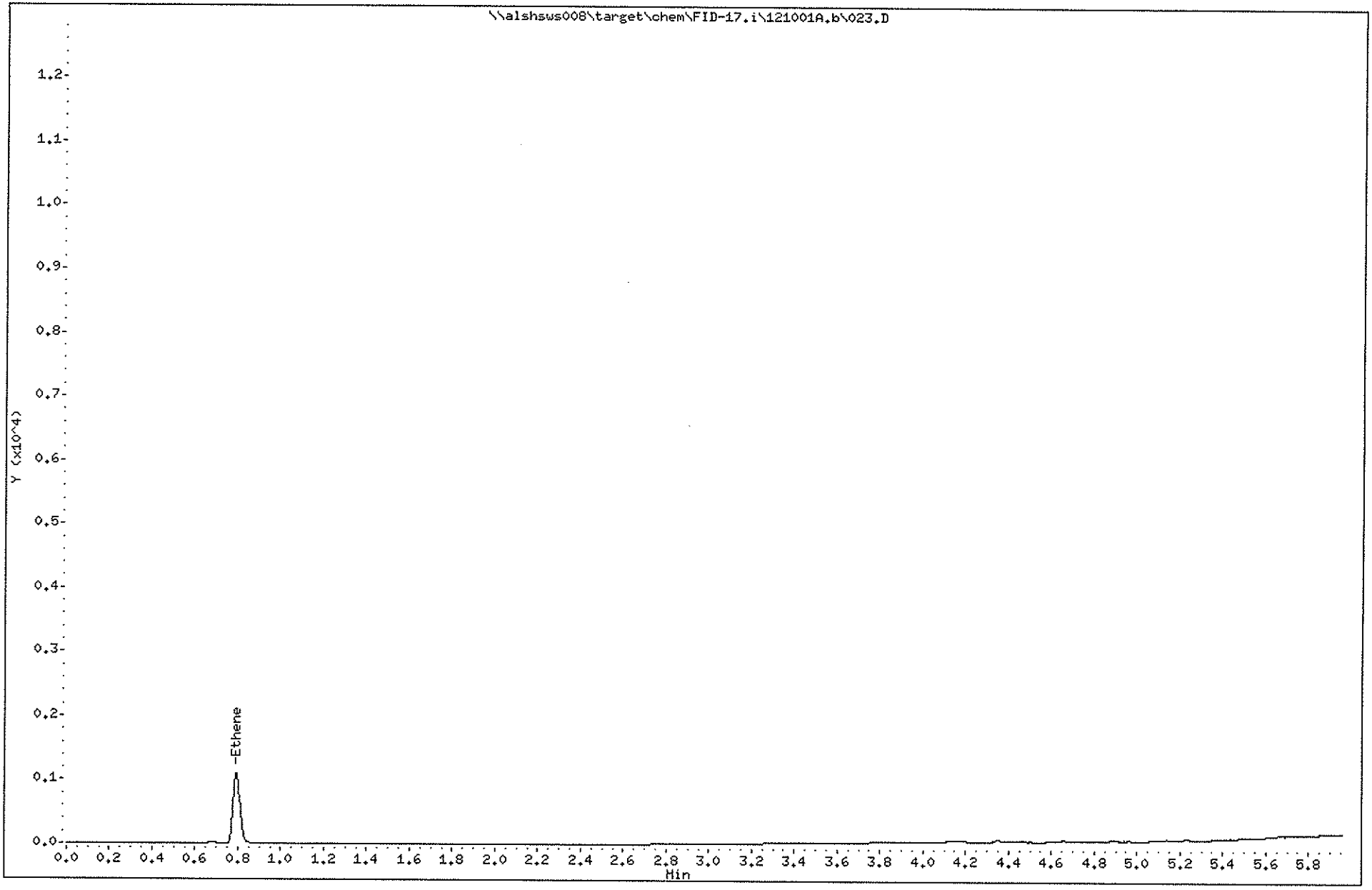
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\023.D
Date : 01-OCT-2012 21:28
Client ID: ETHENE4
Sample Info: ETHENE4;ETHENE4;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\024.D
Lab Smp Id: ETHENE5 Client Smp ID: ETHENE5
Inj Date : 01-OCT-2012 21:37
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE5;ETHENE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:37 Cal File: 024.D
Als bottle: 24 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.823	0.886	-0.063	13030	141.500	136.187(A)

QC Flag Legend

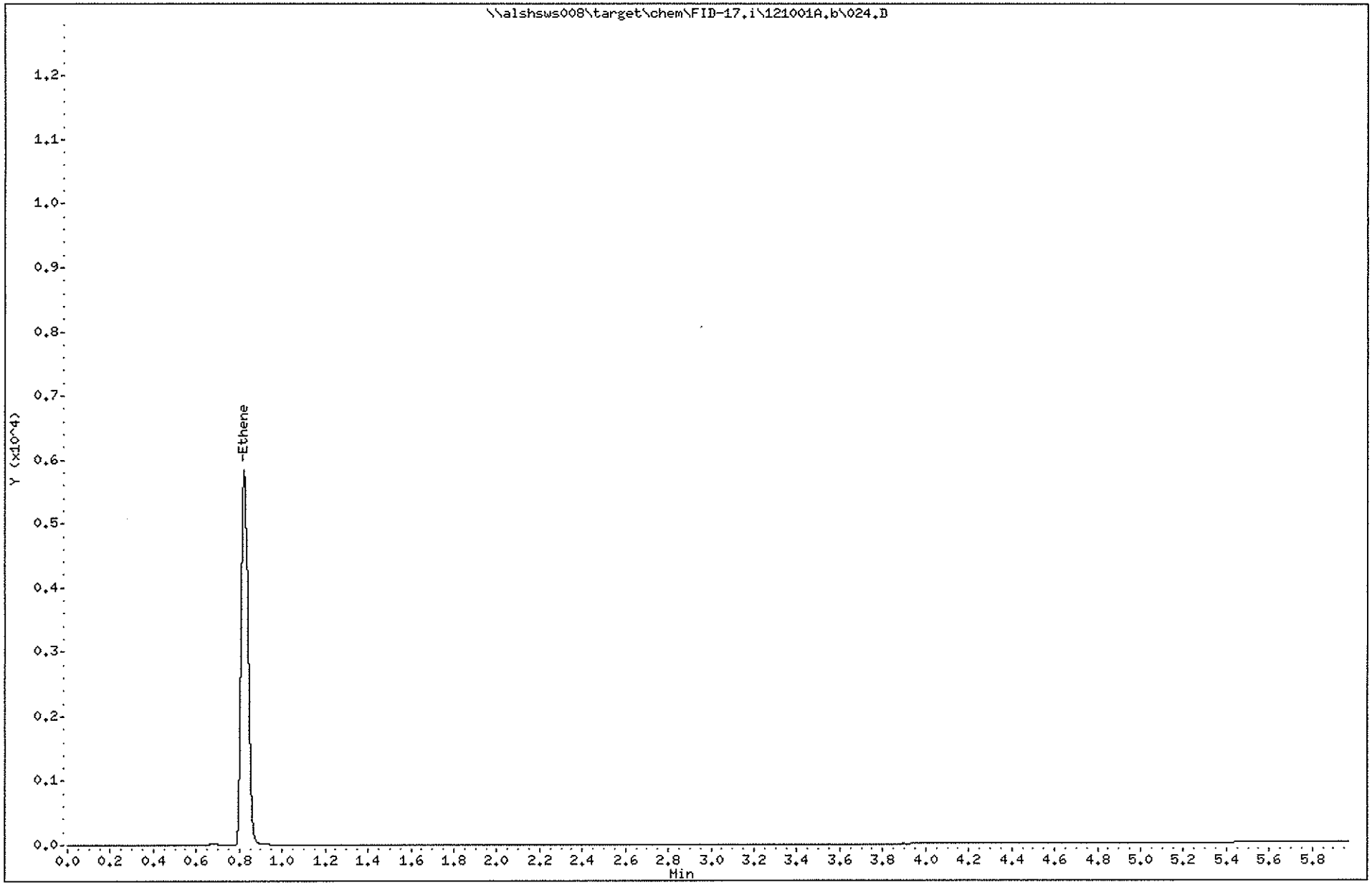
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\024.D
Date : 01-OCT-2012 21:37
Client ID: ETHENE5
Sample Info: ETHENE5;ETHENE5;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\025.D
Lab Smp Id: ETHENE6 Client Smp ID: ETHENE6
Inj Date : 01-OCT-2012 21:46
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE6;ETHENE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:46 Cal File: 025.D
Als bottle: 25 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.839	0.886	-0.047	22982	283.000	242.022(A)

QC Flag Legend

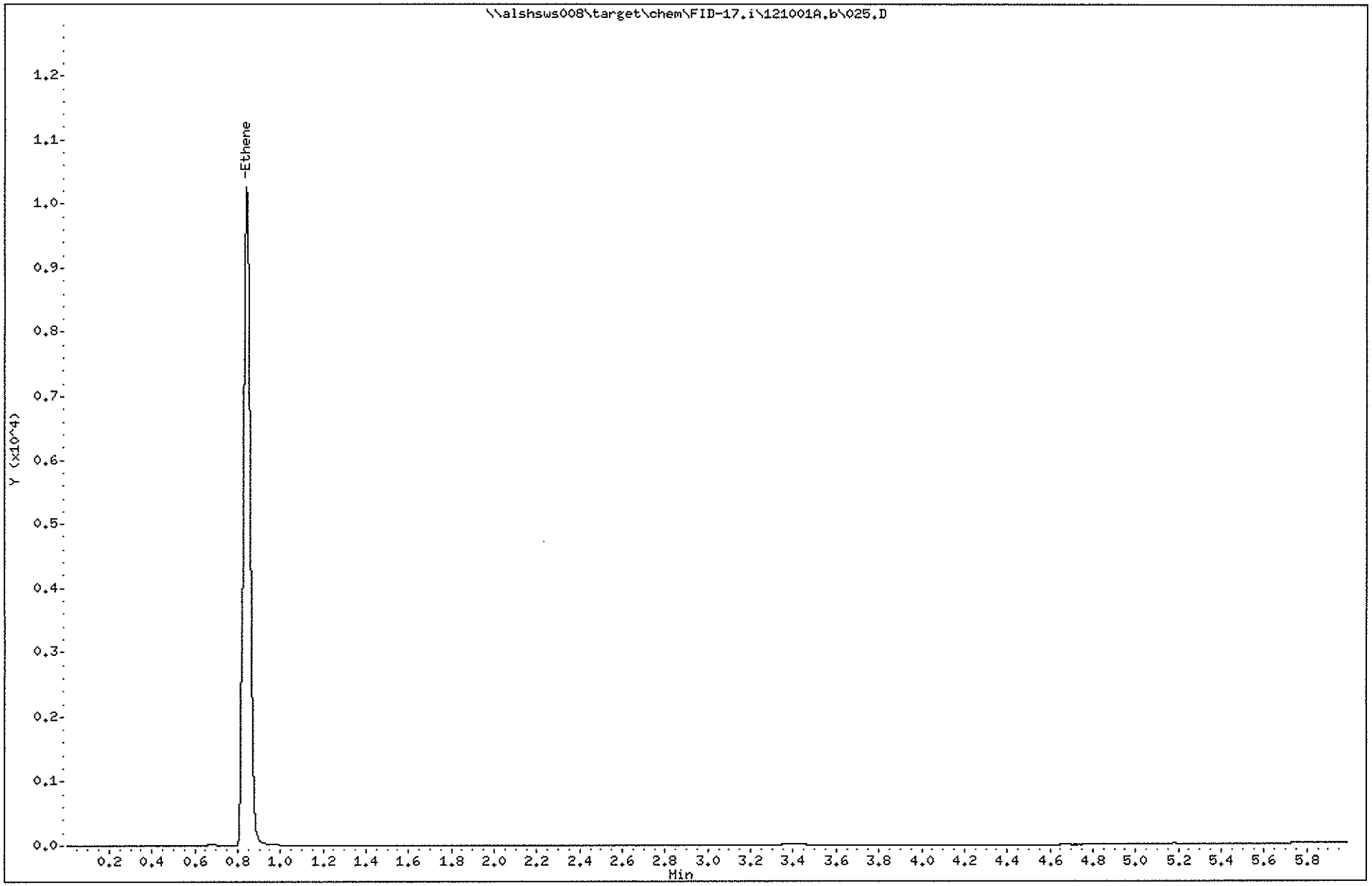
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\025.D
Date : 01-OCT-2012 21:46
Client ID: ETHENE6
Sample Info: ETHENE6;ETHENE6;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\026.D
Lab Smp Id: ETHENE7 Client Smp ID: ETHENE7
Inj Date : 01-OCT-2012 21:55
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE7;ETHENE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:55 Cal File: 026.D
Als bottle: 26 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.850	0.886	-0.036	50279	707.000	542.579(A)

QC Flag Legend

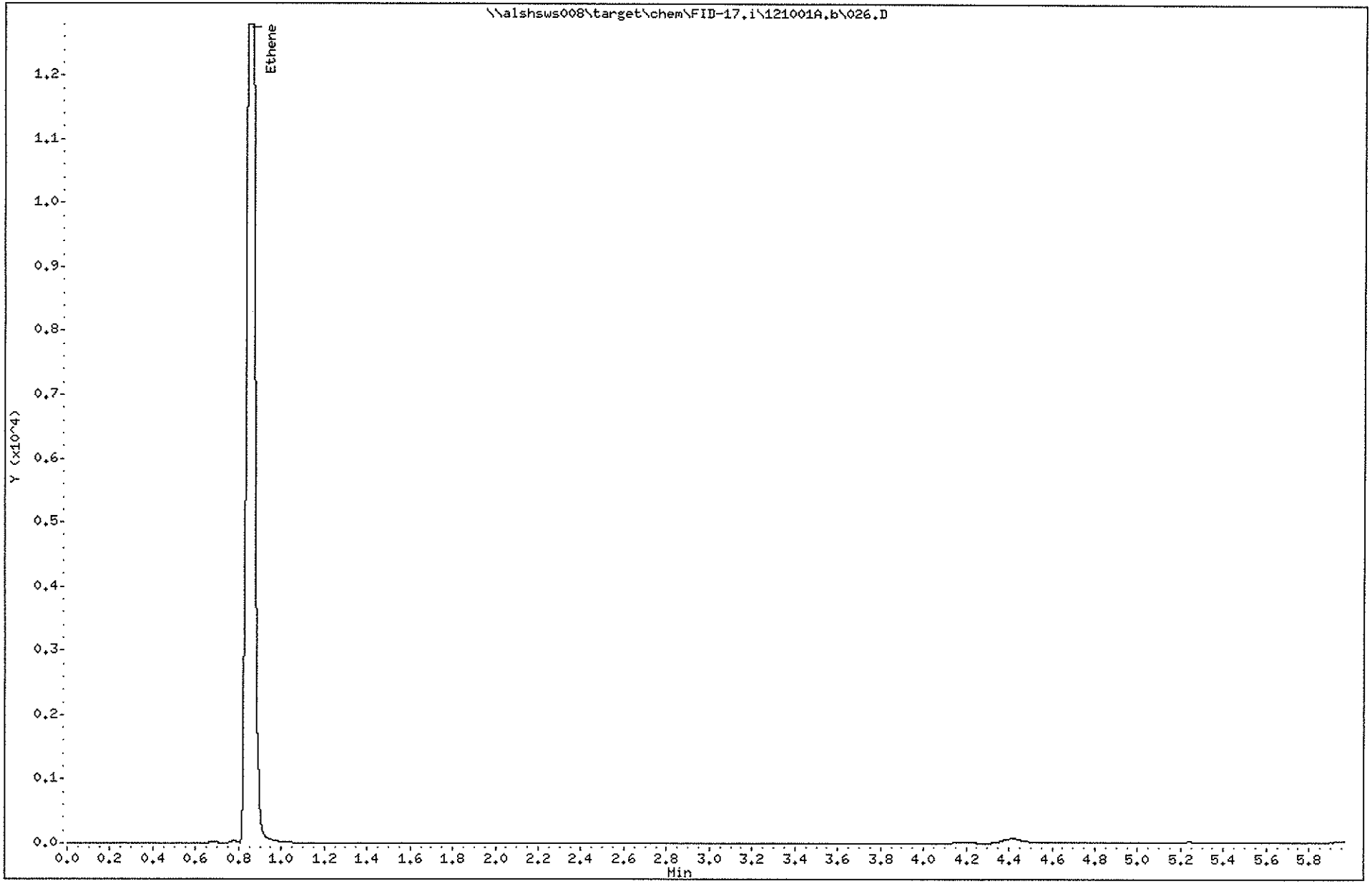
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\026.D
Date : 01-OCT-2012 21:55
Client ID: ETHENE7
Sample Info: ETHENE7;ETHENE7;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\027.D
Lab Smp Id: ETHENE8 Client Smp ID: ETHENE8
Inj Date : 01-OCT-2012 22:04
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENE8;ETHENE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 27 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.856	0.886	-0.030	253661	2828.00	2831.418(A)

QC Flag Legend

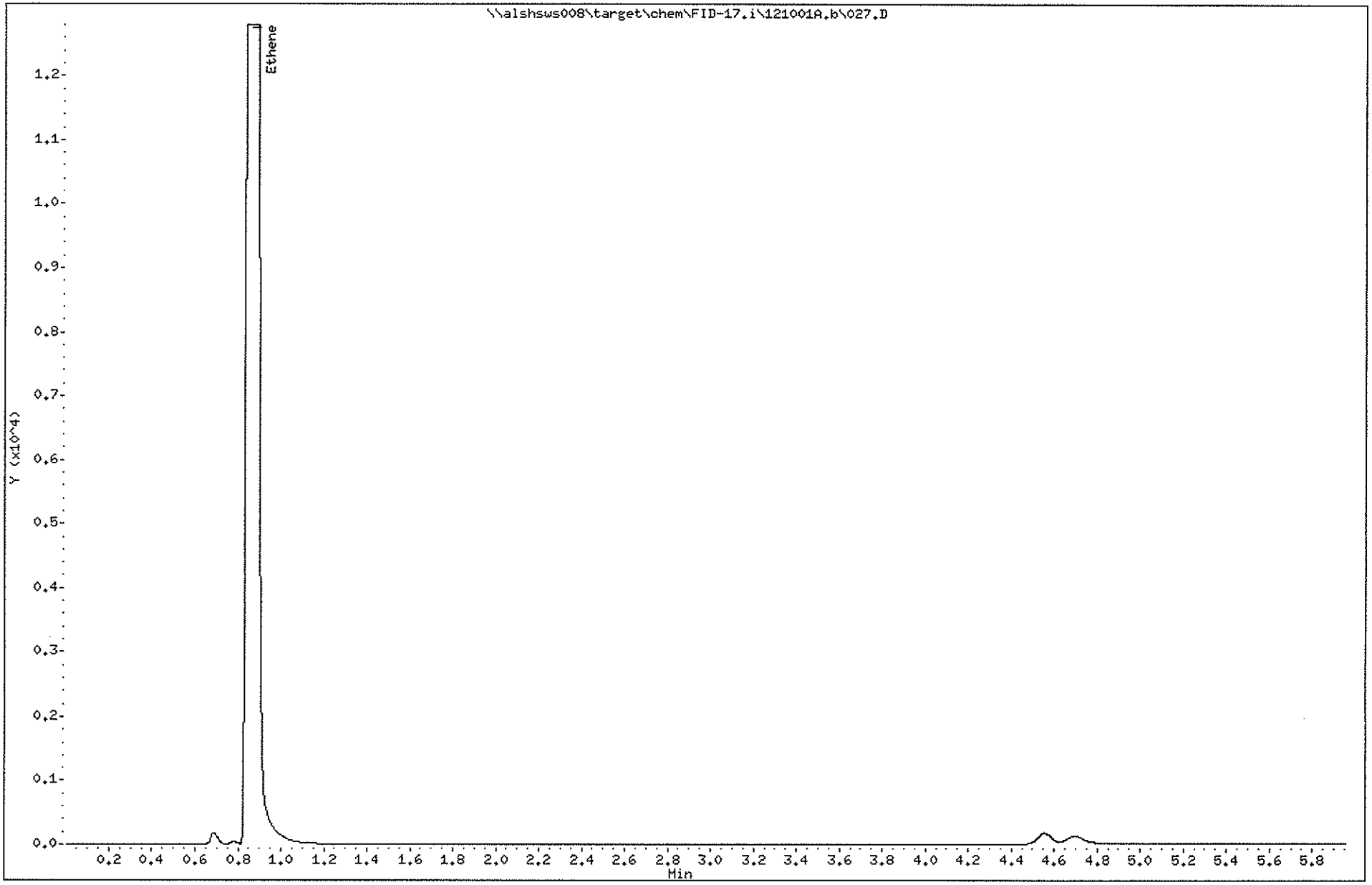
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\027.D
Date : 01-OCT-2012 22:04
Client ID: ETHENE8
Sample Info: ETHENE8;ETHENE8;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\028.D
Lab Smp Id: ETHENEICV Client Smp ID: ETHENEICV
Inj Date : 01-OCT-2012 22:13
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENEICV;ETHENEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 28 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
2 Ethene	0.863	0.886	-0.023	24809	276.882	276.881(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

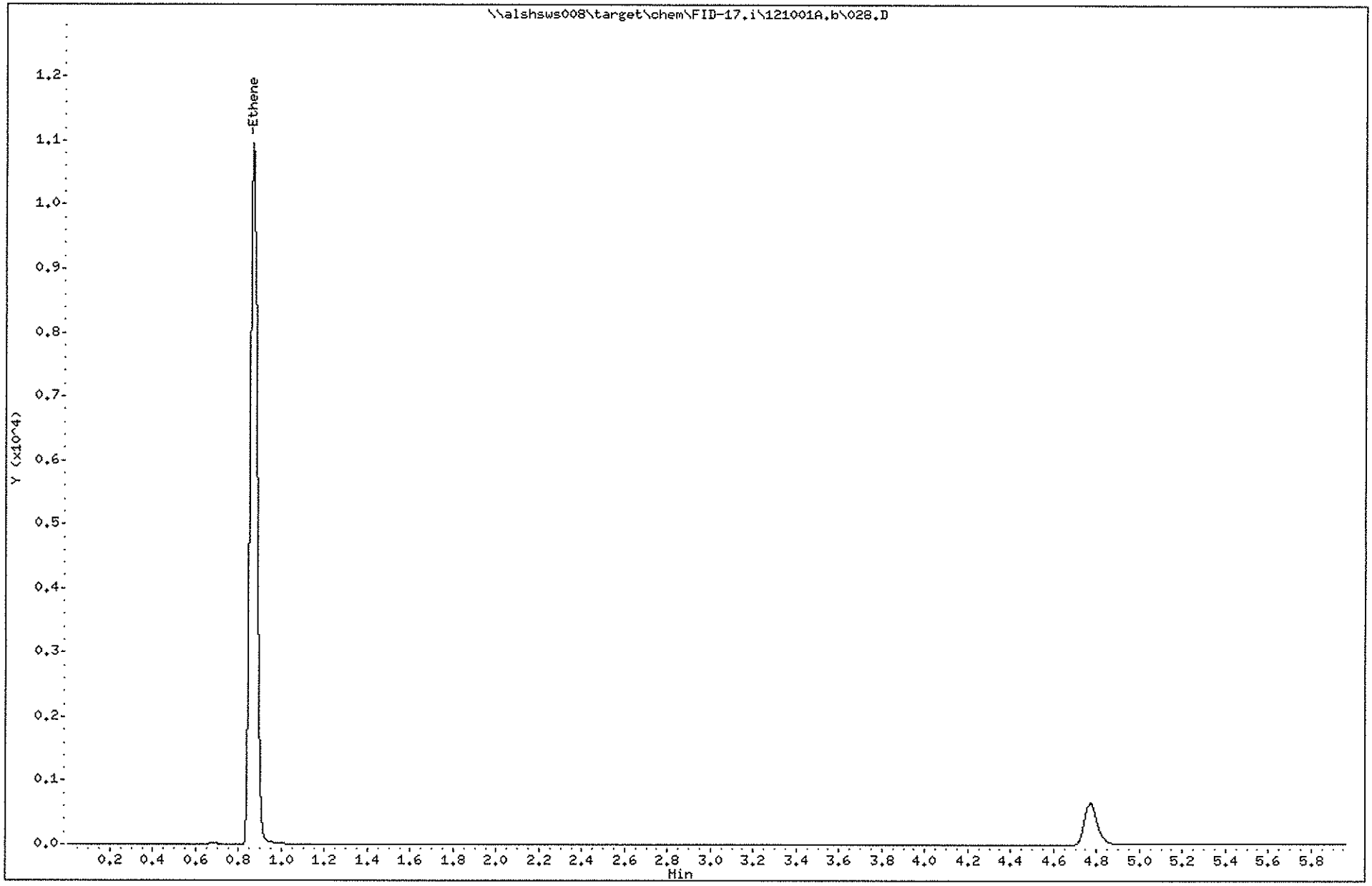
Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\028.D
Date : 01-OCT-2012 22:13
Client ID: ETHENEICV
Sample Info: ETHENEICV;ETHENEICV;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\038.D
Lab Smp Id: ACETYLENE1 Client Smp ID: ACETYLENE1
Inj Date : 01-OCT-2012 23:42
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE1;ACETYLENE1;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 38 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

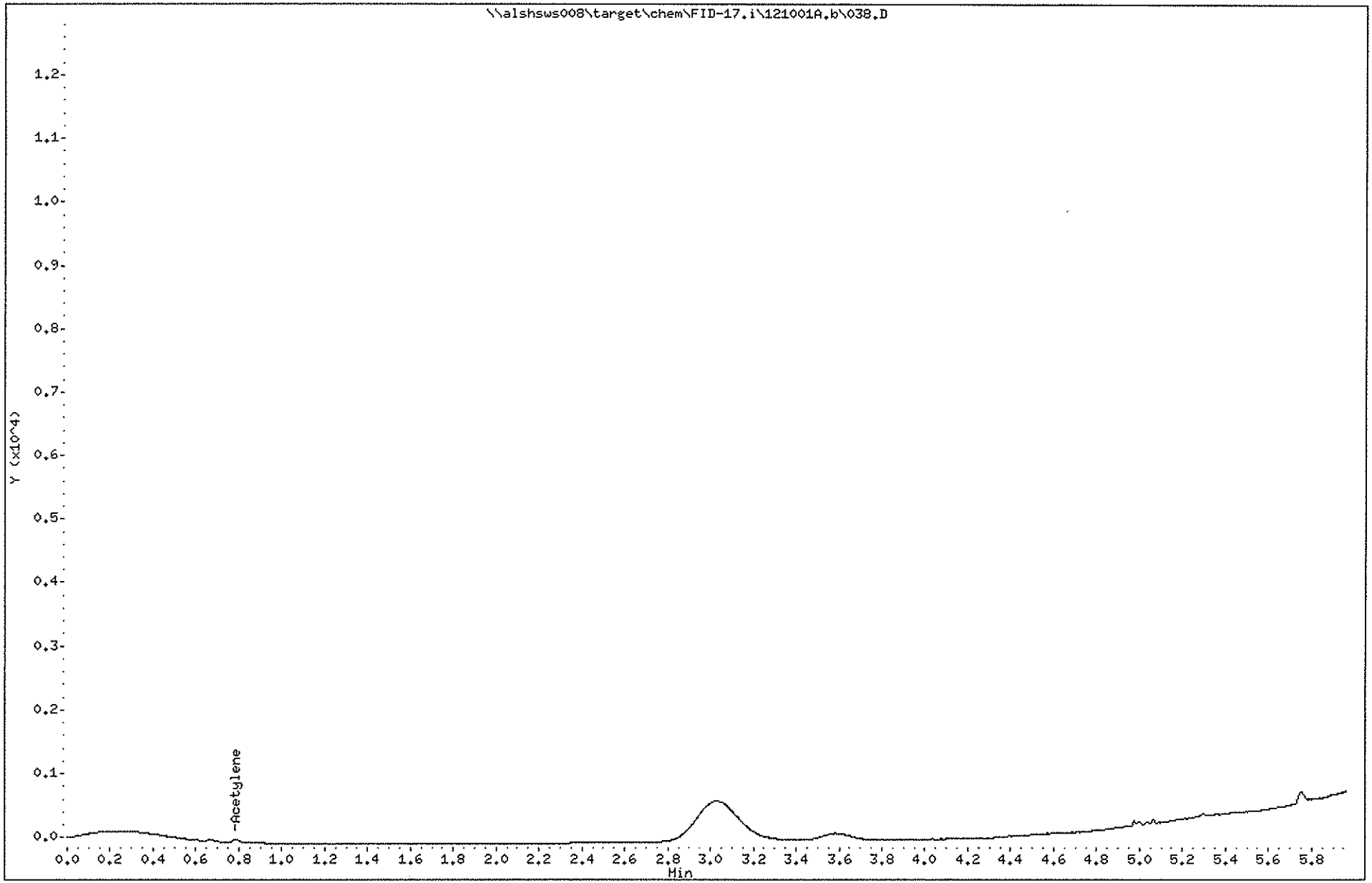
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)	
$ 5 Acetylene	0.786	2.813	-2.027	219	2.00000		(M)

QC Flag Legend

M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\038.D
Date : 01-OCT-2012 23:42
Client ID: ACETYLENE1
Sample Info: ACETYLENE1;ACETYLENE1;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\039.D
Lab Smp Id: ACETYLENE2 Client Smp ID: ACETYLENE2
Inj Date : 01-OCT-2012 23:51
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE2;ACETYLENE2;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 39 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

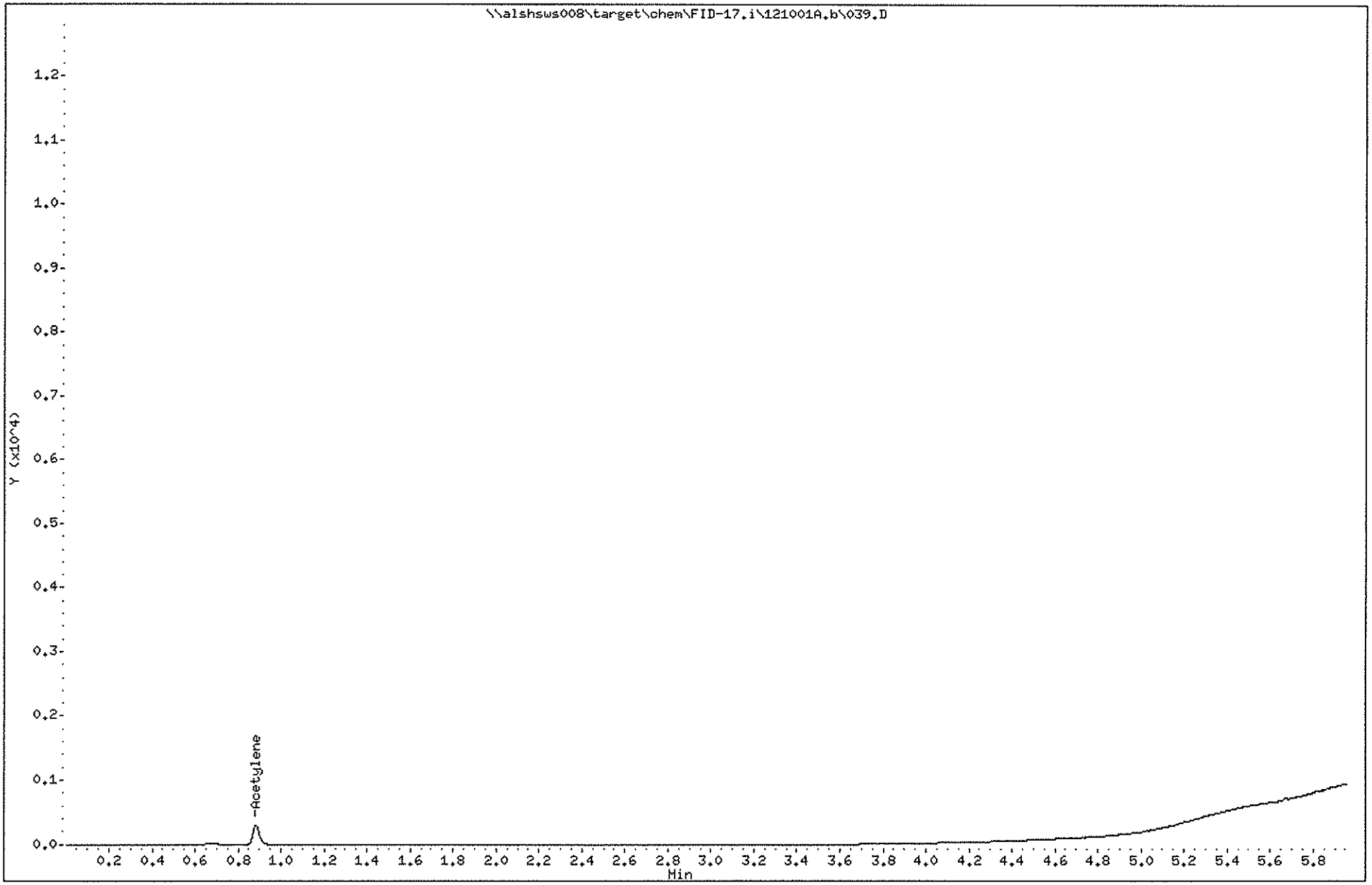
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	0.883	2.813	-1.930	663	10.0000	6.054(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\039.D
Date : 01-OCT-2012 23:51
Client ID: ACETYLENE2
Sample Info: ACETYLENE2;ACETYLENE2;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\040.D
Lab Smp Id: ACETYLENE3 Client Smp ID: ACETYLENE3
Inj Date : 02-OCT-2012 00:00
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE3;ACETYLENE3;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 40 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	1.273	2.813	-1.540	1377	20.0000	33.945(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\040.D

Page 2

Date : 02-OCT-2012 00:00

Client ID: ACETYLENE3

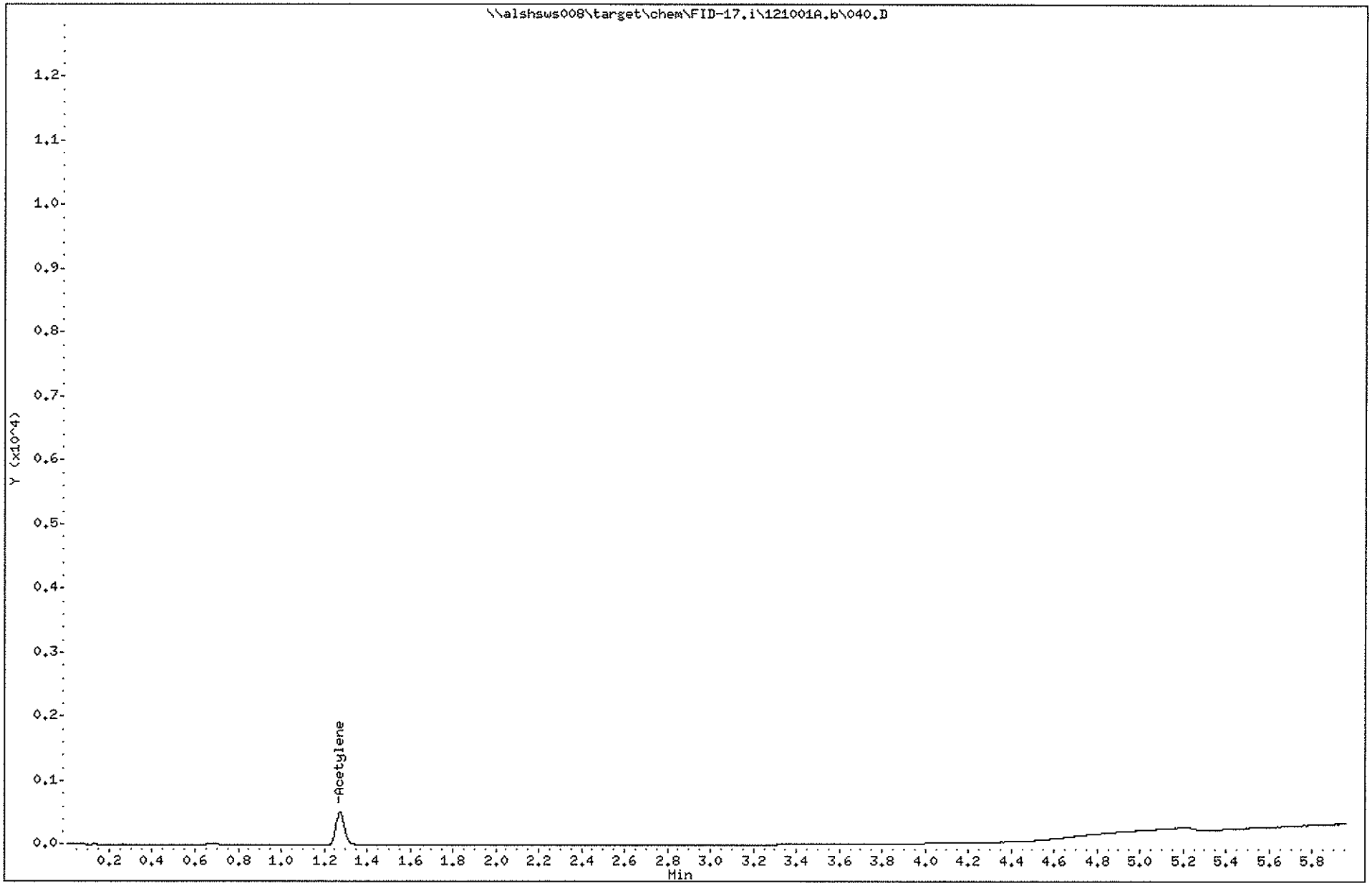
Instrument: FID-17.i

Sample Info: ACETYLENE3;ACETYLENE3;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\041.D
Lab Smp Id: ACETYLENE4 Client Smp ID: ACETYLENE4
Inj Date : 02-OCT-2012 00:09
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE4;ACETYLENE4;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 41 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

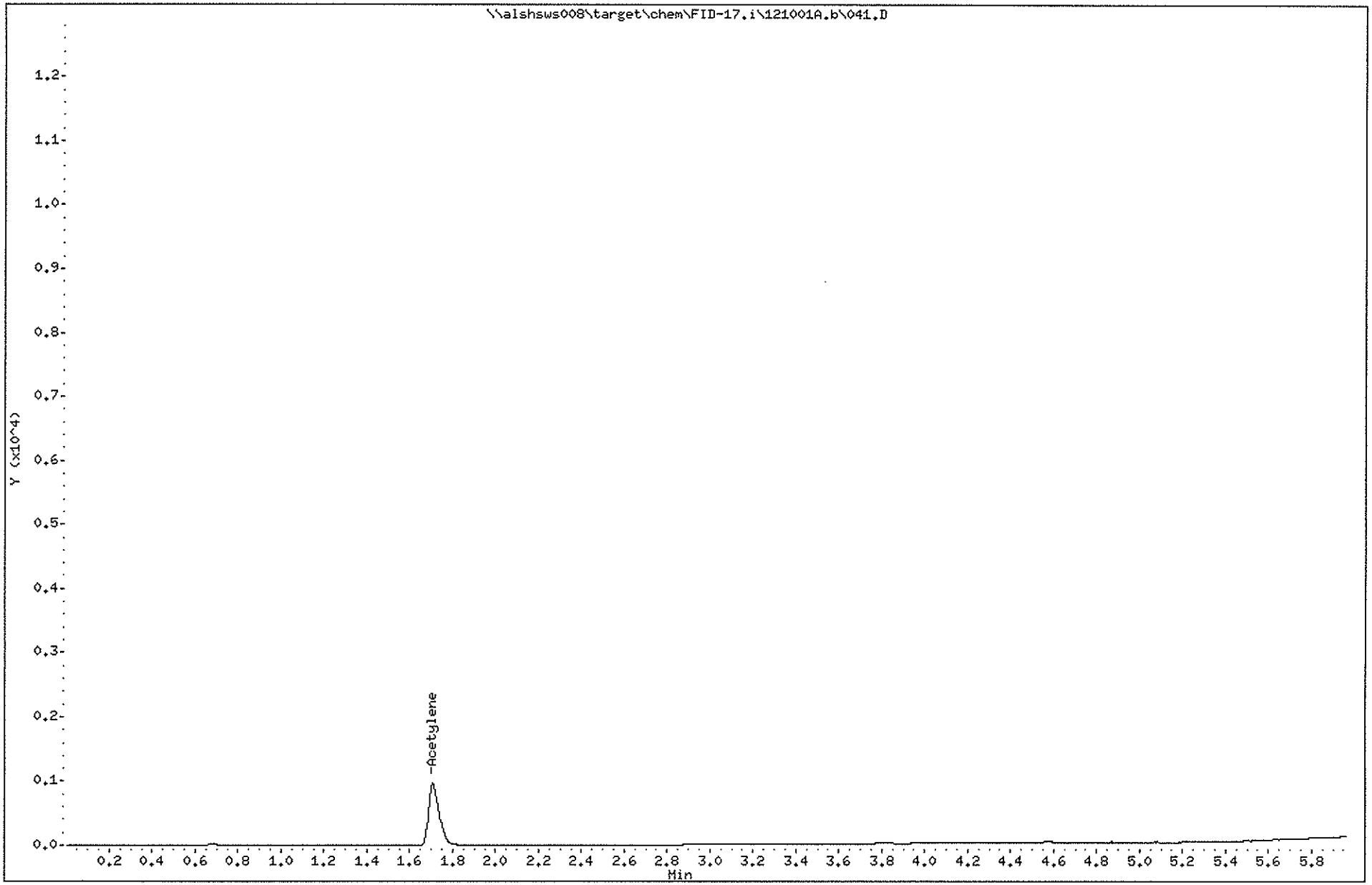
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	1.706	2.813	-1.107	3281	50.0000	46.918(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\041.D
Date : 02-OCT-2012 00:09
Client ID: ACETYLENE4
Sample Info: ACETYLENE4;ACETYLENE4;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\042.D
Lab Smp Id: ACETYLENE5 Client Smp ID: ACETYLENE5
Inj Date : 02-OCT-2012 00:18
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE5;ACETYLENE5;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 42 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.009	2.813	-0.804	7114	100.000	114.742(AM)

QC Flag Legend

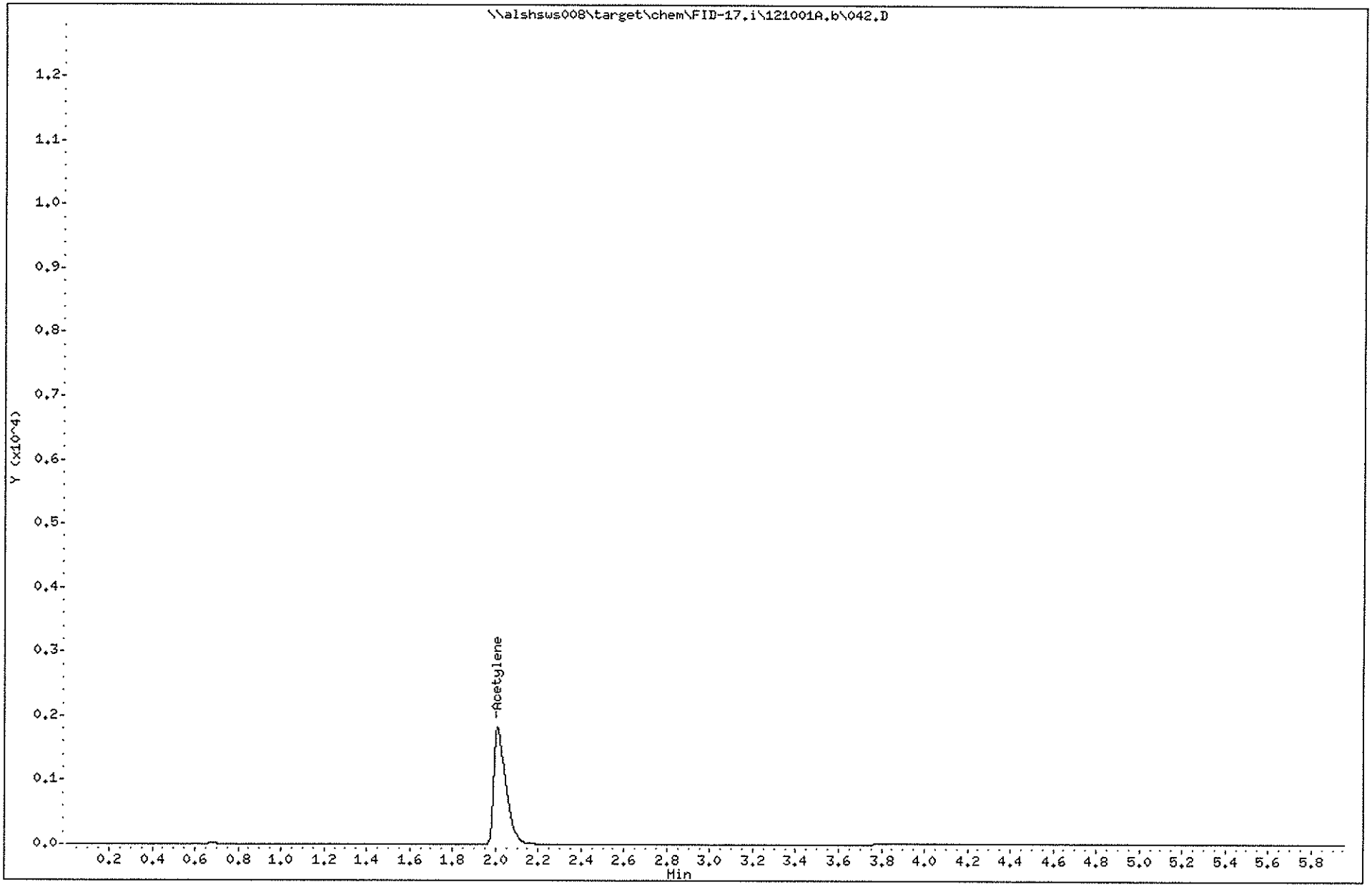
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\042.D
Date : 02-OCT-2012 00:18
Client ID: ACETYLENE5
Sample Info: ACETYLENE5;ACETYLENE5;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\043.D
Lab Smp Id: ACETYLENE6 Client Smp ID: ACETYLENE6
Inj Date : 02-OCT-2012 00:26
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE6;ACETYLENE6;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:55 Cal File: 026.D
Als bottle: 43 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.266	2.813	-0.547	13645	200.000	166.598(AM)

QC Flag Legend

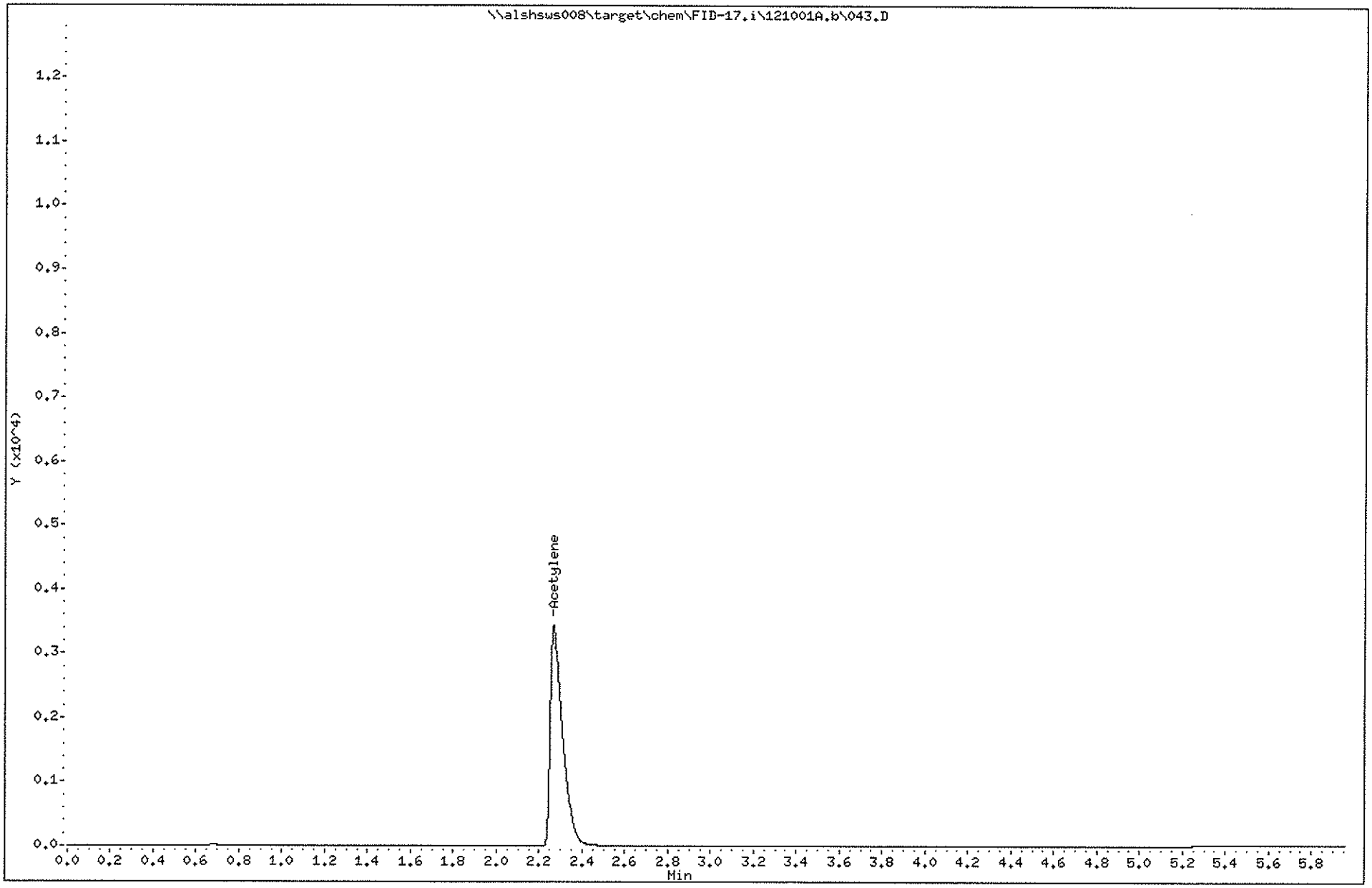
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\043.D
Date : 02-OCT-2012 00:26
Client ID: ACETYLENE6
Sample Info: ACETYLENE6;ACETYLENE6;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\044.D
Lab Smp Id: ACETYLENE7 Client Smp ID: ACETYLENE7
Inj Date : 02-OCT-2012 00:35
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE7;ACETYLENE7;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 21:55 Cal File: 026.D
Als bottle: 44 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

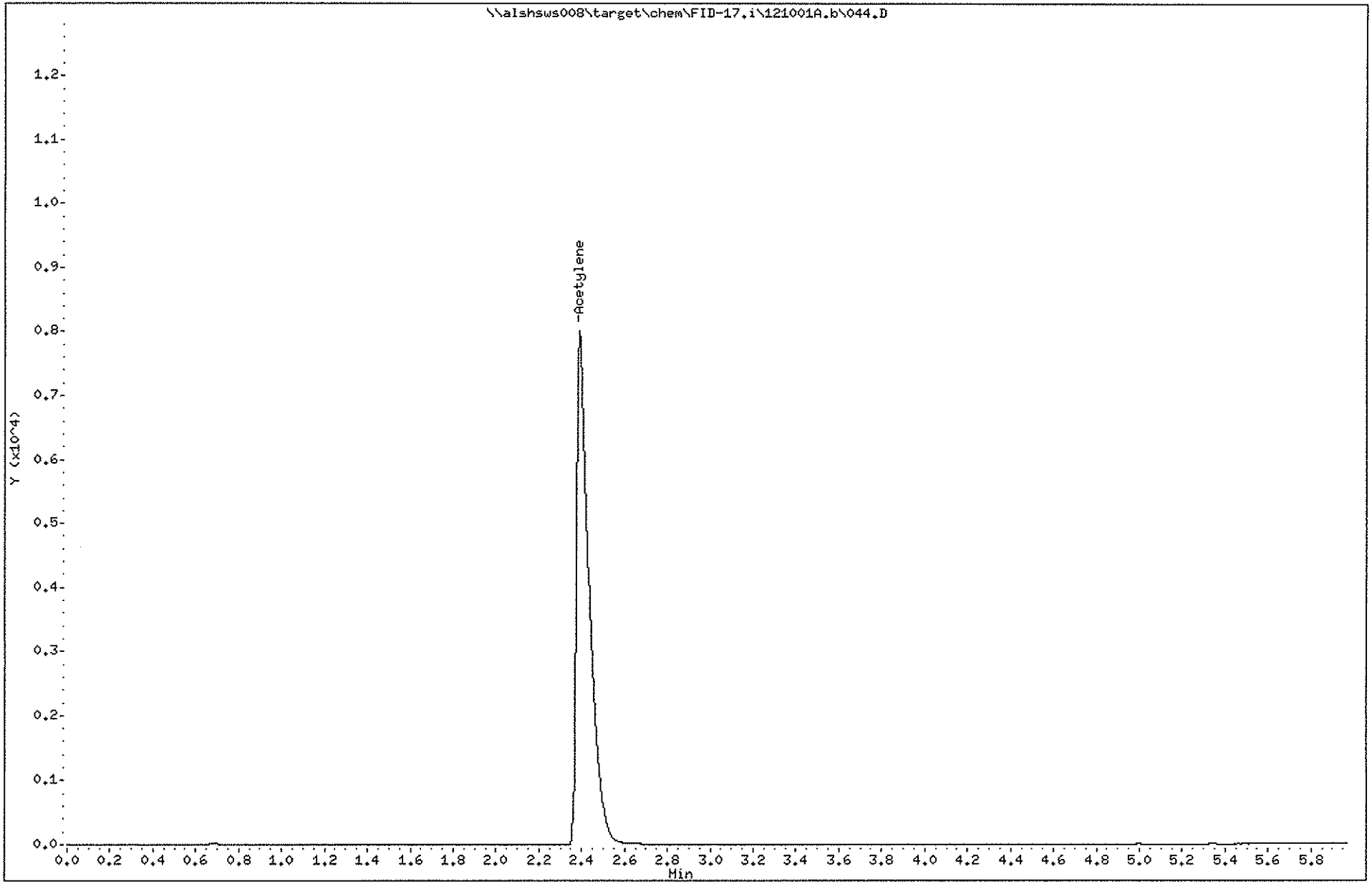
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.386	2.813	-0.427	33311	500.000	513.024(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\044.D
Date : 02-OCT-2012 00:35
Client ID: ACETYLENE7
Sample Info: ACETYLENE7;ACETYLENE7;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\045.D
Lab Smp Id: ACETYLENE8 Client Smp ID: ACETYLENE8
Inj Date : 02-OCT-2012 00:44
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENE8;ACETYLENE8;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 01-OCT-2012 22:04 Cal File: 027.D
Als bottle: 45 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.453	2.813	-0.360	70028	1000.00	1106.990(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\045.D

Page 2

Date : 02-OCT-2012 00:44

Client ID: ACETYLENE8

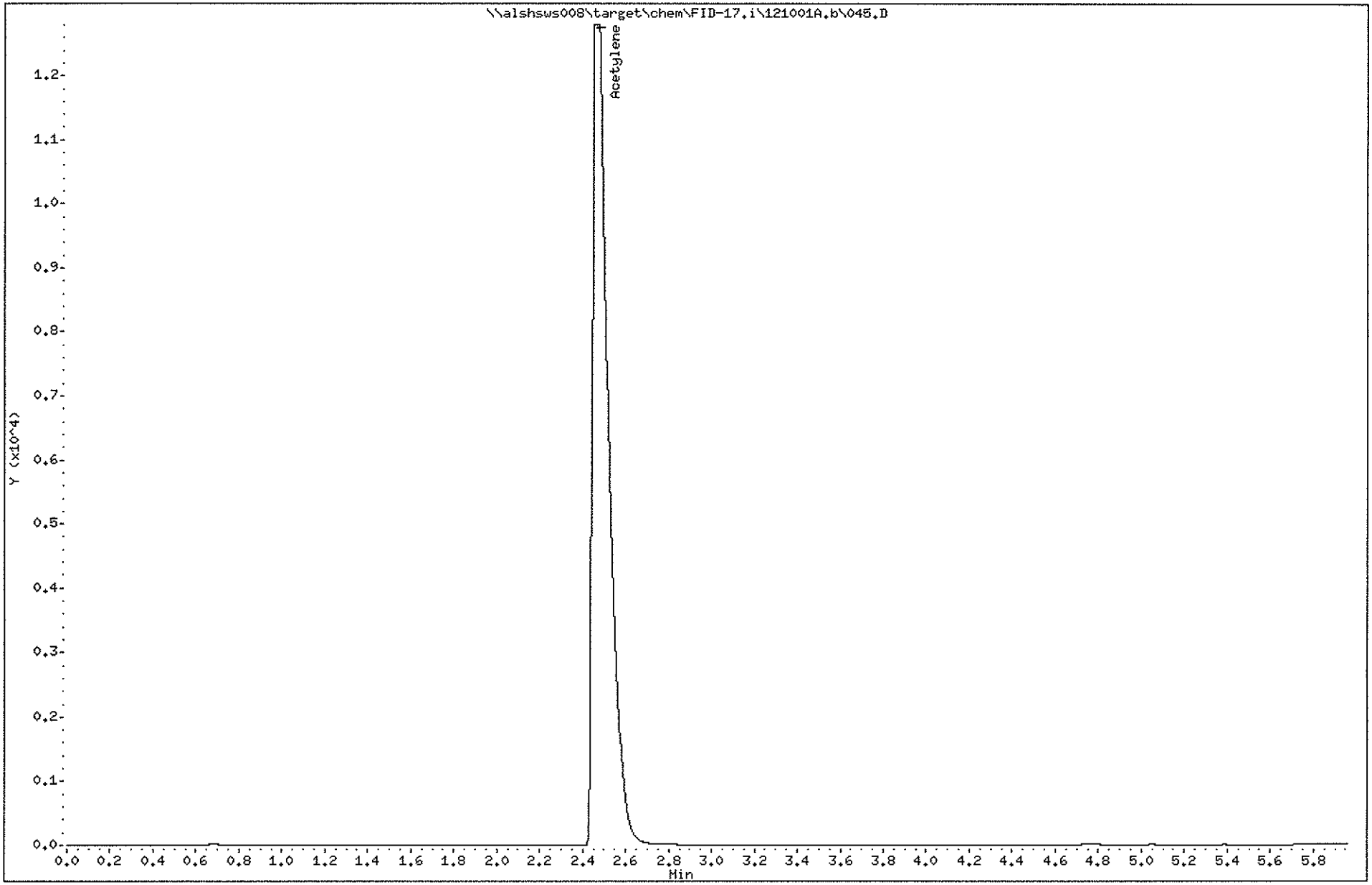
Instrument: FID-17.i

Sample Info: ACETYLENE8;ACETYLENE8;;;;

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\046.D
Lab Smp Id: ACETYLENEICV Client Smp ID: ACETYLENEICV
Inj Date : 02-OCT-2012 00:53
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENEICV;ACETYLENEICV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 46 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 5 Acetylene	2.596	2.813	-0.217	11870	178.836	178.835(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

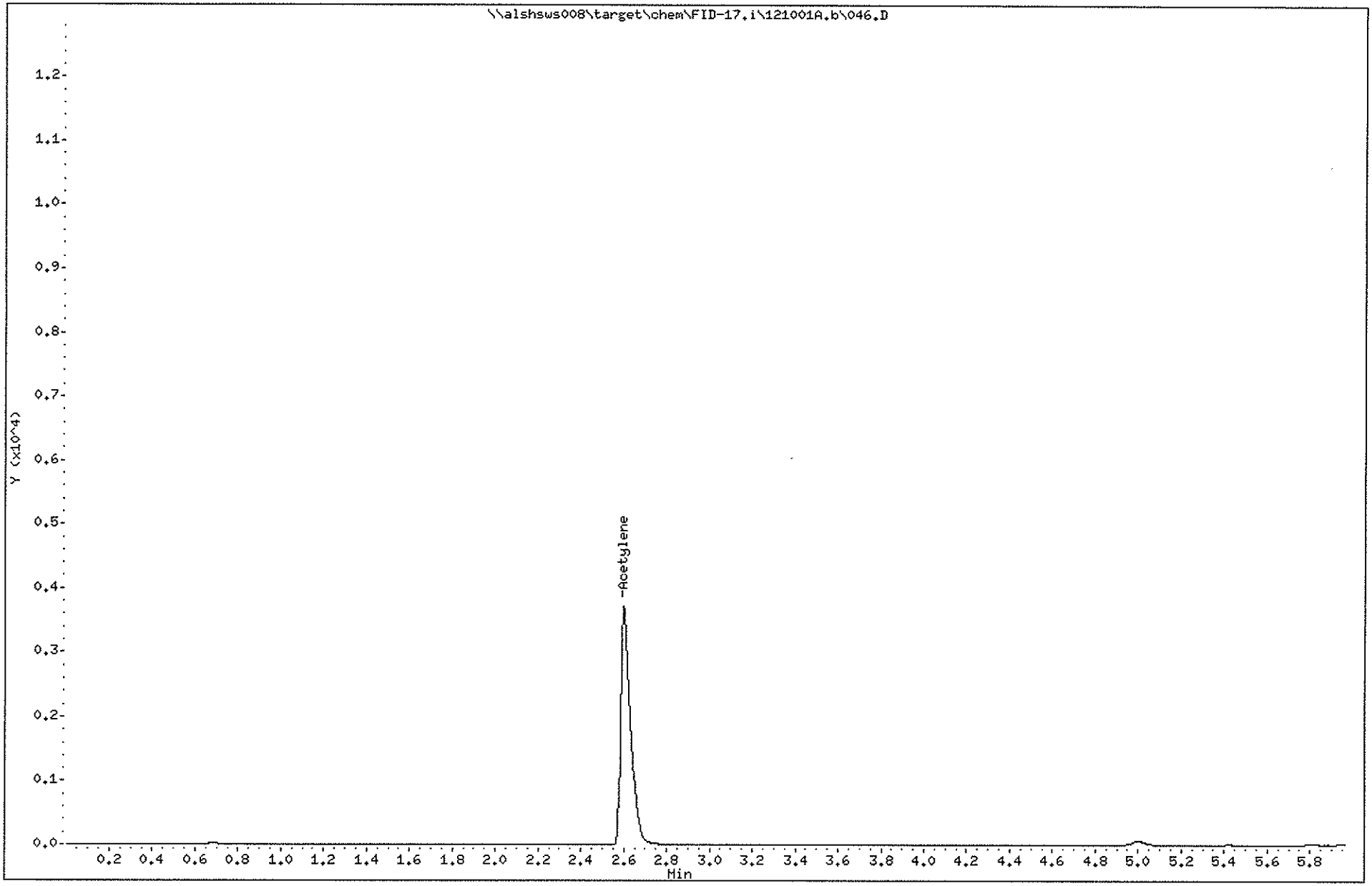
Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\046.D
Date : 02-OCT-2012 00:53
Client ID: ACETYLENEICV
Sample Info: ACETYLENEICV;ACETYLENEICV;;;;

Instrument: FID-17.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\050.D
Lab Smp Id: 1209887-04A Client Smp ID: 1209887-04A
Inj Date : 02-OCT-2012 01:29
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-04A;1209887-04A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 50
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 5 Acetylene	2.663	2.813	-0.150	11950	180.041	180.040(A)

QC Flag Legend

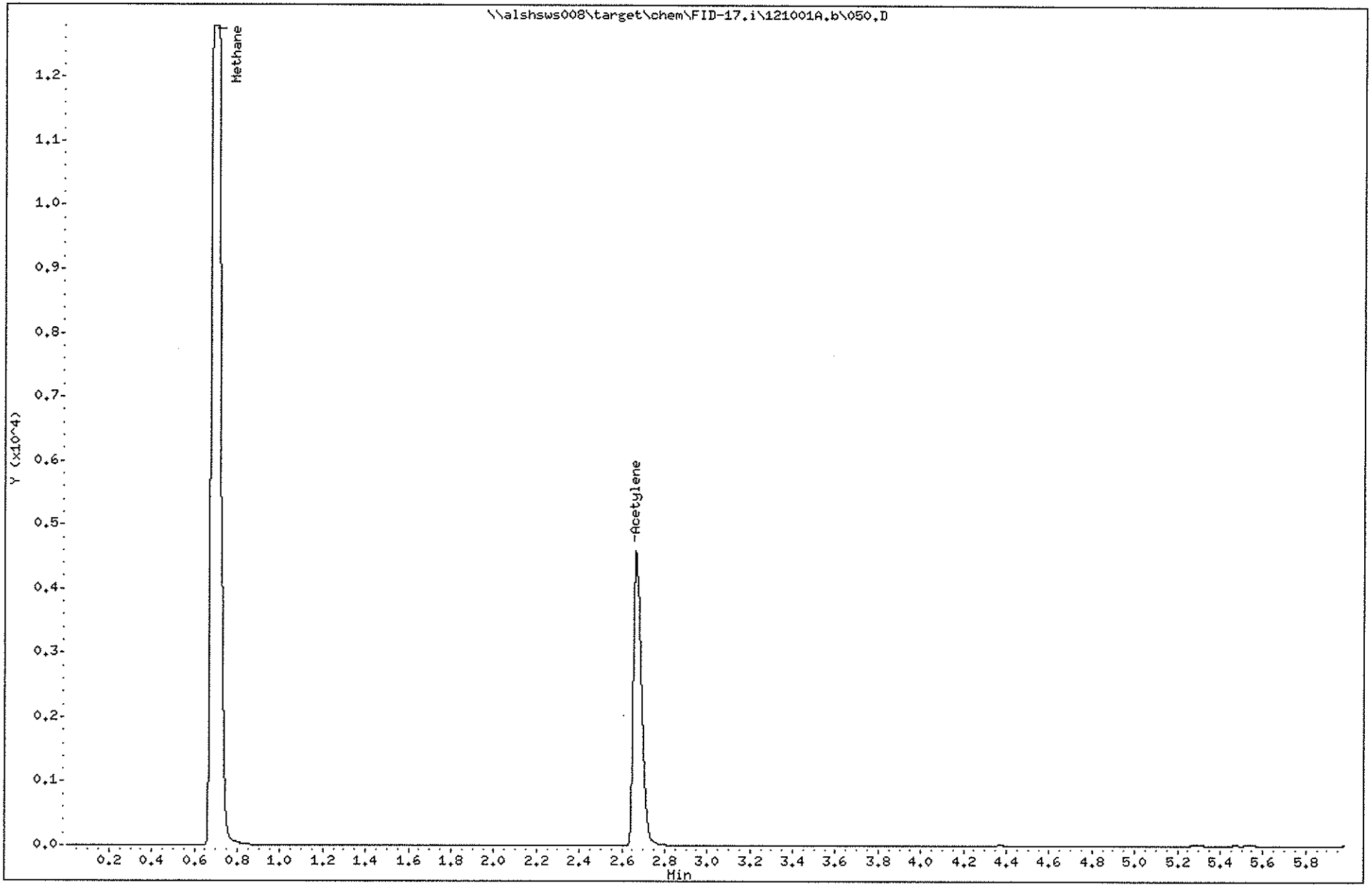
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\050.D
Date : 02-OCT-2012 01:29
Client ID: 1209887-04A
Sample Info: 1209887-04A;1209887-04A;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\051.D
Lab Smp Id: 1209887-05A Client Smp ID: 1209887-05A
Inj Date : 02-OCT-2012 01:38
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-05A;1209887-05A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 51
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
$ 5 Acetylene	2.710	2.813	-0.103	11959	180.176	180.176(AM)

QC Flag Legend

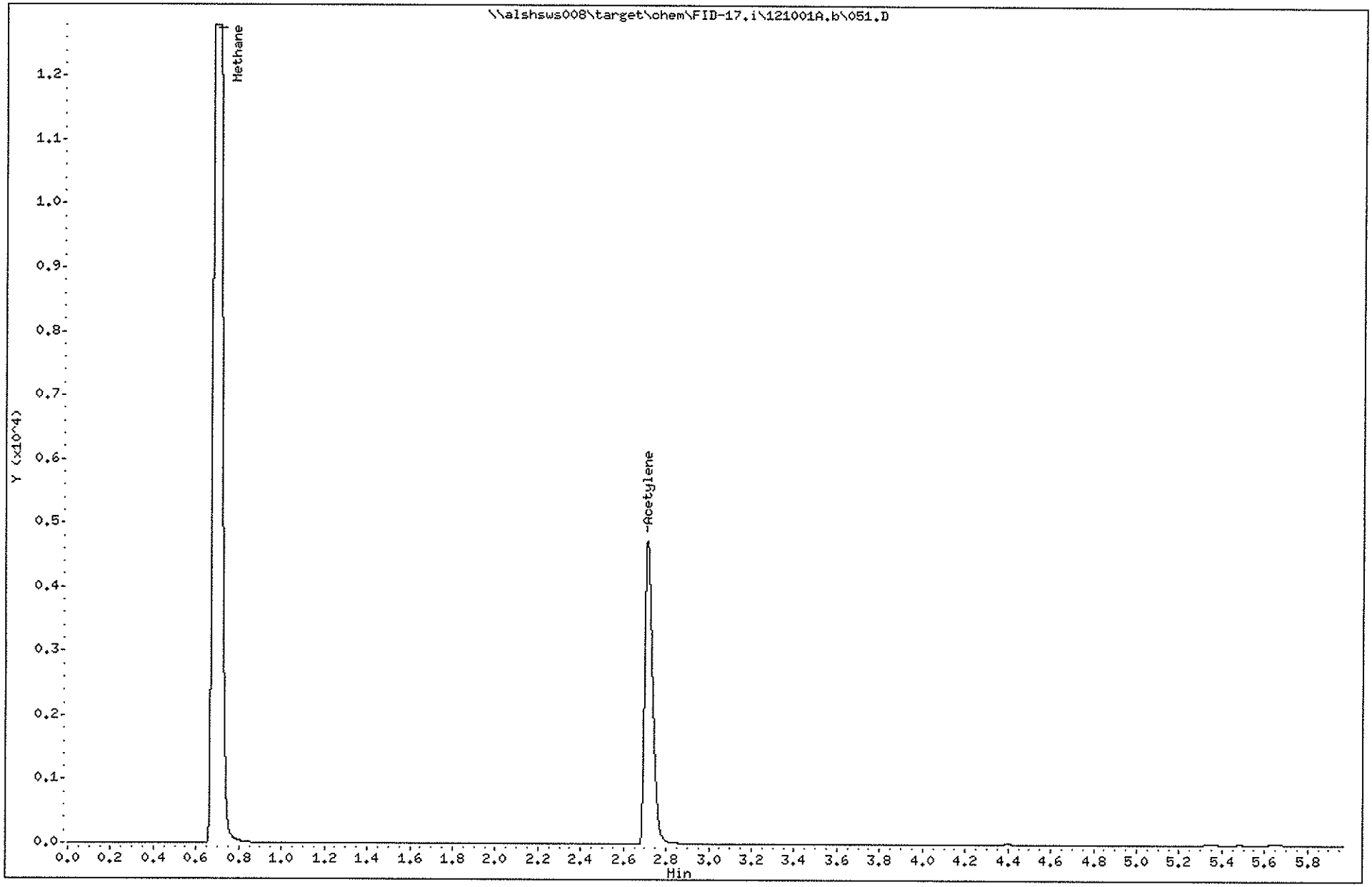
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\051.D
Date : 02-OCT-2012 01:38
Client ID: 1209887-05A
Sample Info: 1209887-05A;1209887-05A;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\052.D
Lab Smp Id: 1209887-06A Client Smp ID: 1209887-06A
Inj Date : 02-OCT-2012 01:47
Operator : JA Inst ID: FID-17.i
Smp Info : 1209887-06A;1209887-06A;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 52
Dil Factor: 20.00000
Integrator: Falcon Compound Sublist: all.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
$ 5 Acetylene	2.726	2.813	-0.087	12406	186.906	186.905(AM)

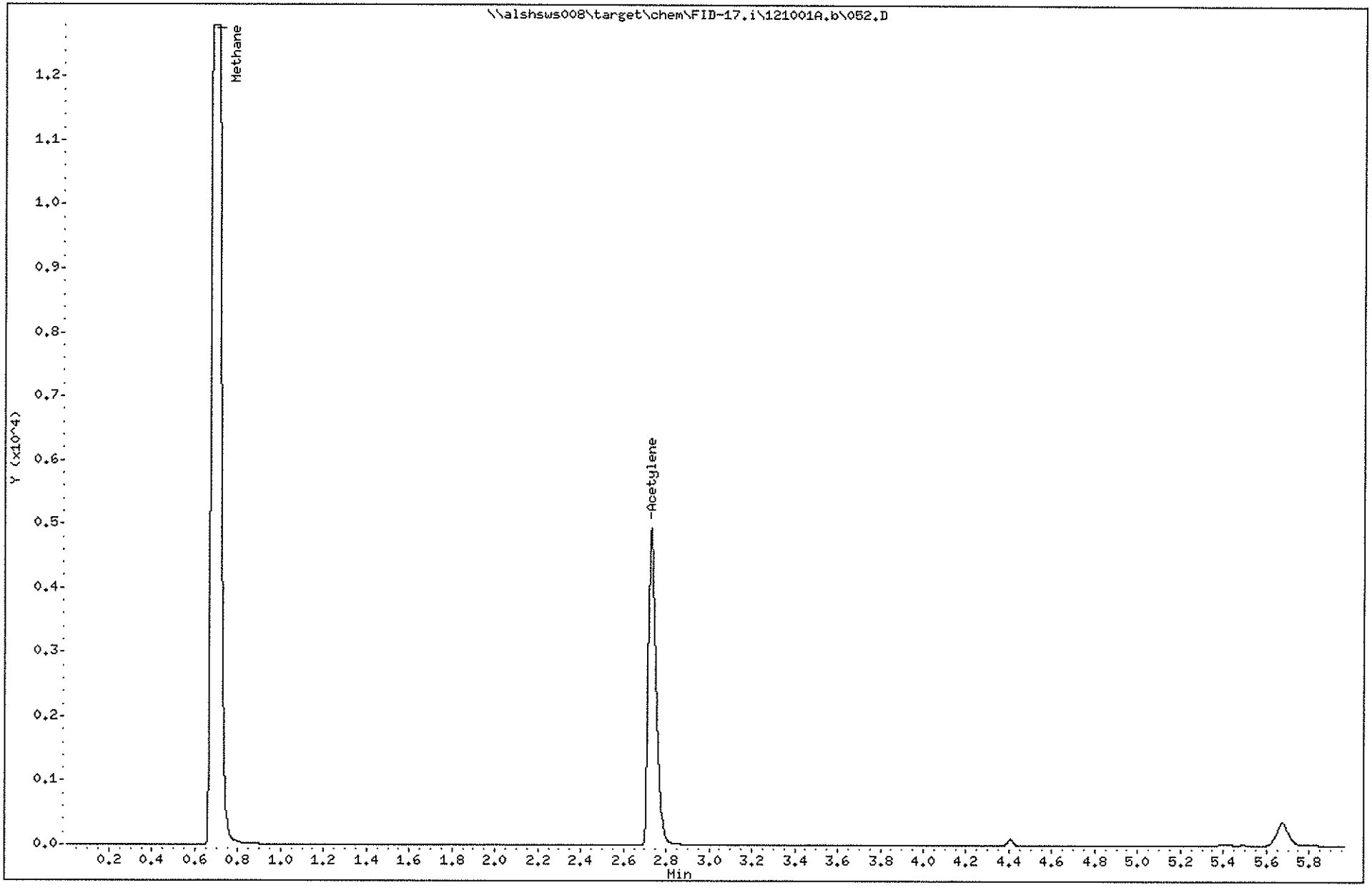
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\052.D
Date : 02-OCT-2012 01:47
Client ID: 1209887-06A
Sample Info: 1209887-06A;1209887-06A;;;;

Instrument: FID-17.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\053.D
Lab Smp Id: METHANECCV Client Smp ID: METHANECCV
Inj Date : 02-OCT-2012 01:56
Operator : JA Inst ID: FID-17.i
Smp Info : METHANECCV;METHANECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 53 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: methane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	0.690	0.690	0.000	14711	239.000	251.182(A)

QC Flag Legend

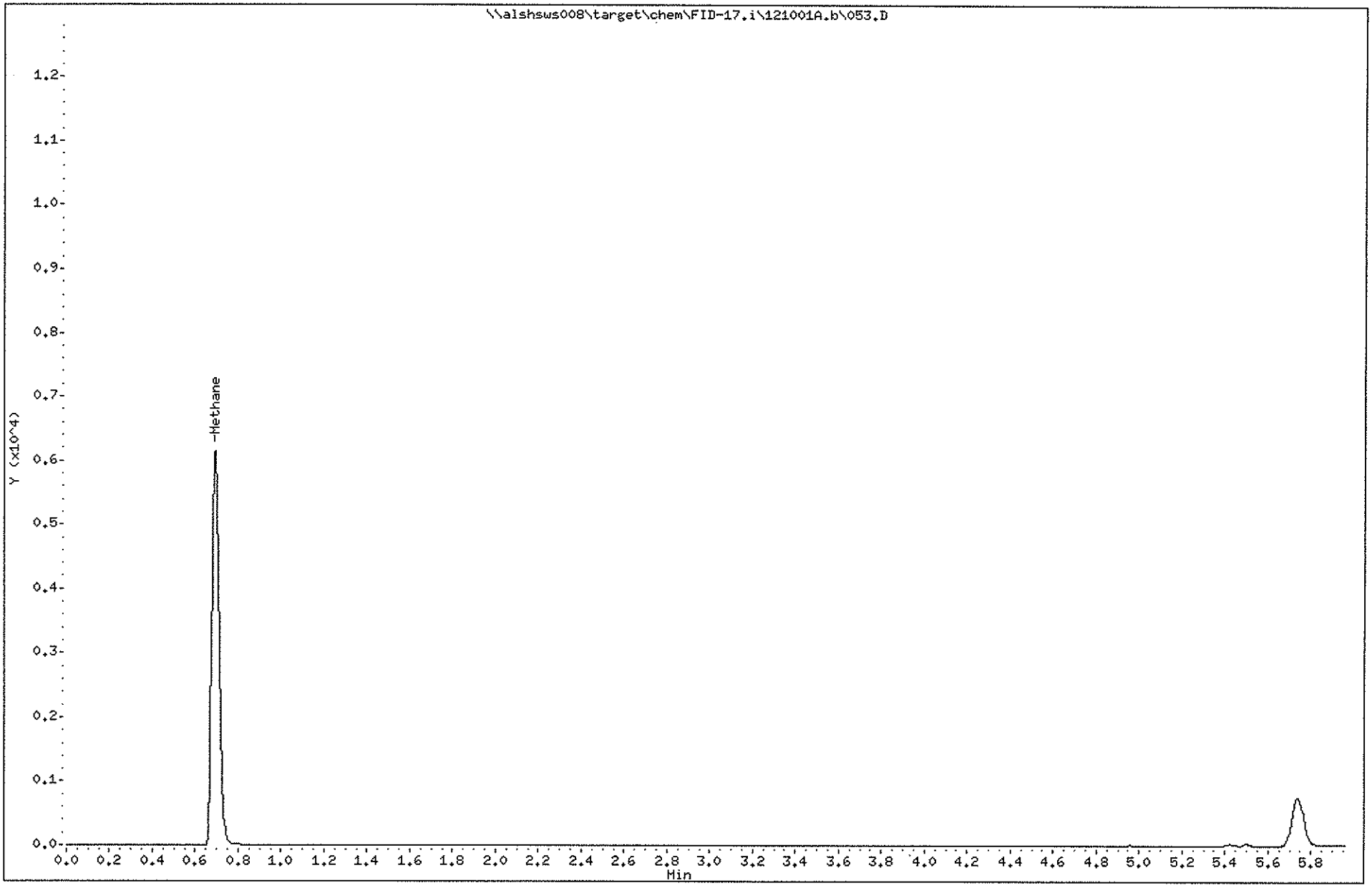
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\053.D
Date : 02-OCT-2012 01:56
Client ID: METHANECCV
Sample Info: METHANECCV;METHANECCV;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\054.D
Lab Smp Id: ETHANECCV Client Smp ID: ETHANECCV
Inj Date : 02-OCT-2012 02:04
Operator : JA Inst ID: FID-17.i
Smp Info : ETHANECCV;ETHANECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 54 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethane.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
3 Ethane	0.793	0.826	-0.033	23900	310.000	366.681(AM)

QC Flag Legend

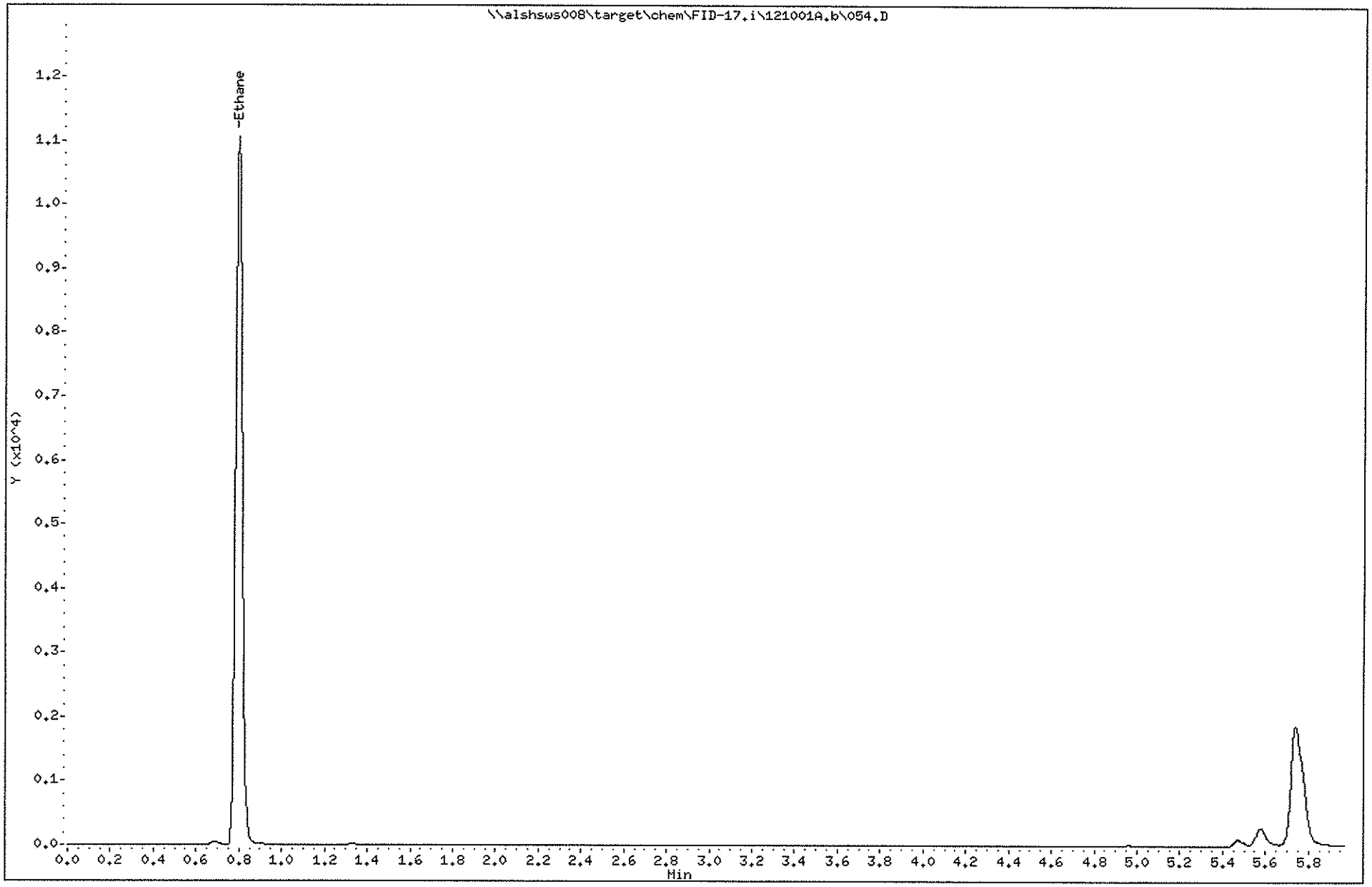
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\054.D
Date : 02-OCT-2012 02:04
Client ID: ETHANECCV
Sample Info: ETHANECCV;ETHANECCV;;;;

Column phase: Rtx-PLOT

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\055.D
Lab Smp Id: ETHENECCV Client Smp ID: ETHENECCV
Inj Date : 02-OCT-2012 02:13
Operator : JA Inst ID: FID-17.i
Smp Info : ETHENECCV;ETHENECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 55 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: ethene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
2 Ethene	0.886	0.886	0.000	25912	283.000	289.191(A)

QC Flag Legend

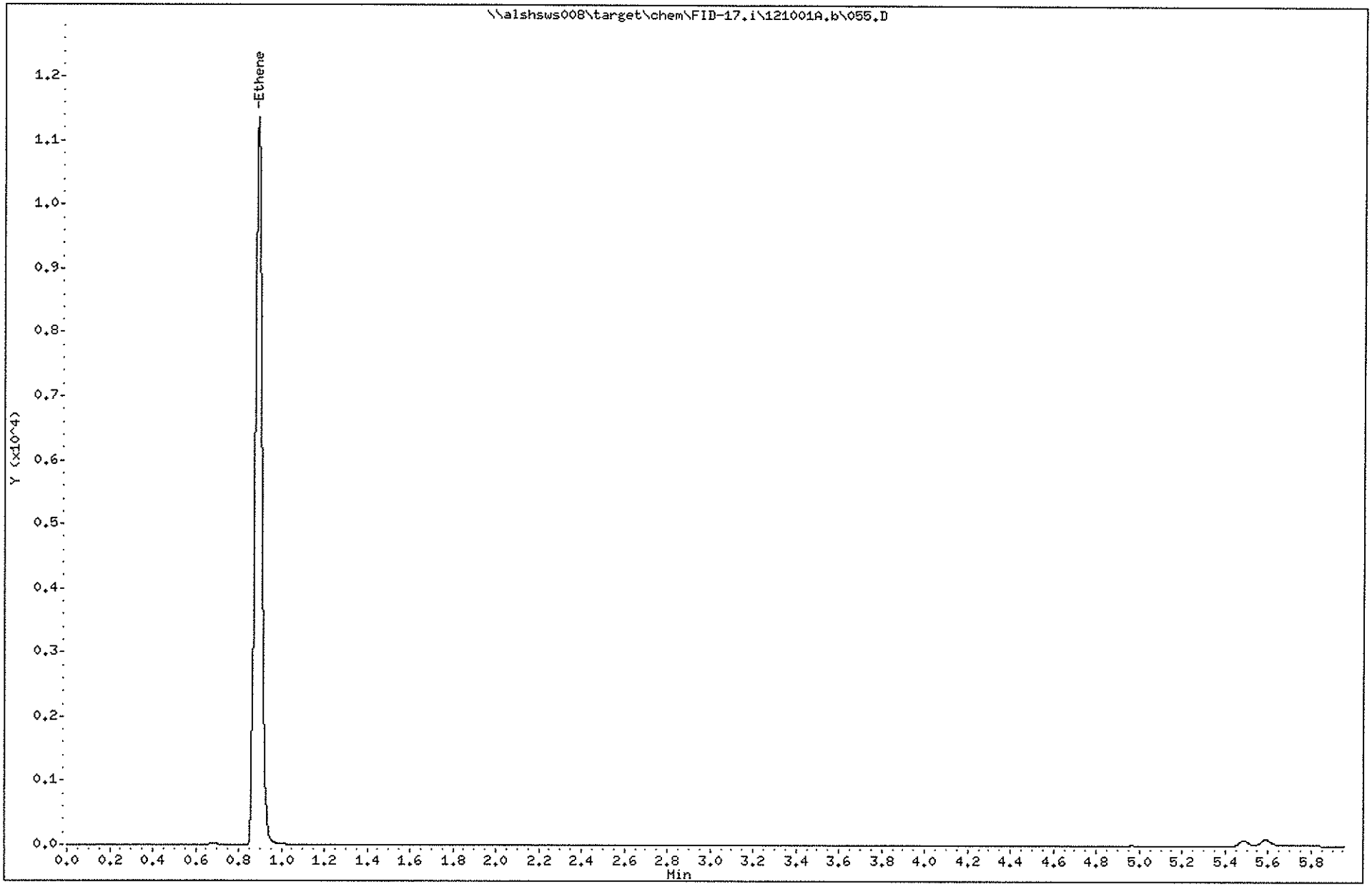
A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\055.D
Date : 02-OCT-2012 02:13
Client ID: ETHENECCV
Sample Info: ETHENECCV;ETHENECCV;;;;

Instrument: FID-17.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-17.i\121001A.b\057.D
Lab Smp Id: ACETYLENECCV Client Smp ID: ACETYLENECCV
Inj Date : 02-OCT-2012 02:31
Operator : JA Inst ID: FID-17.i
Smp Info : ACETYLENECCV;ACETYLENECCV;;;;
Misc Info :
Comment :
Method : \\alshsws008\target\chem\FID-17.i\121001A.b\rsk.m
Meth Date : 15-Feb-2013 09:50 kbrown Quant Type: ESTD
Cal Date : 02-OCT-2012 00:44 Cal File: 045.D
Als bottle: 57 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: Acetylene.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

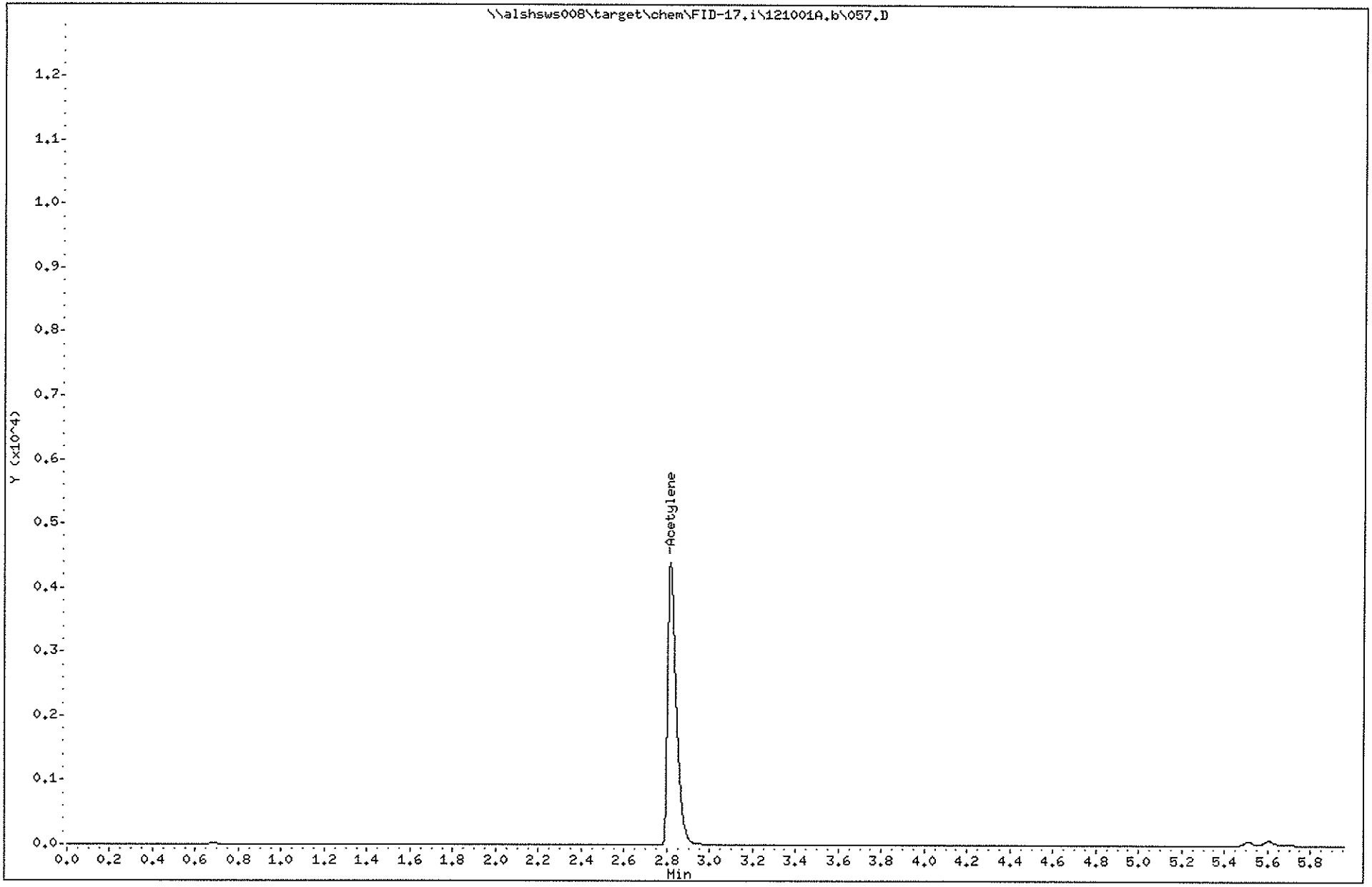
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
$ 5 Acetylene	2.813	2.813	0.000	12020	200.000	181.094(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-17.i\121001A.b\057.D
Date : 02-OCT-2012 02:31
Client ID: ACETYLENECCV
Sample Info: ACETYLENECCV;ACETYLENECCV;;;;

Instrument: FID-17.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



Wet Chemistry Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1209887

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Cal. Curve

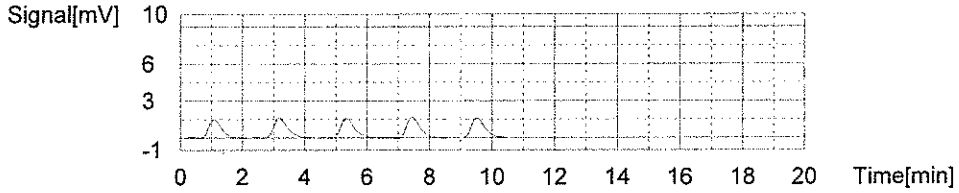
Sample Name:	CALIBRATION
Sample ID:	Untitled
Cal. Curve:	ASI-V 032312CAL.2012_03_23_19_24_40.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.05000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	4.614	50uL	1	*******	E	3/23/2012 7:32:38 PM
2	5.001	50uL	1	*******		3/23/2012 7:35:04 PM
3	4.879	50uL	1	*******		3/23/2012 7:37:22 PM
4	5.196	50uL	1	*******		3/23/2012 7:39:37 PM
5	4.862	50uL	1	*******		3/23/2012 7:41:54 PM

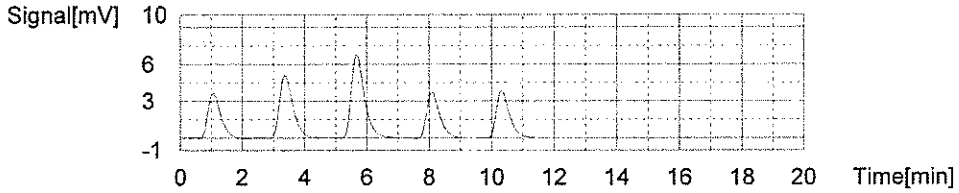
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	4.985



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	10.86	50uL	1	*******		3/23/2012 7:50:03 PM
2	15.66	50uL	1	*******		3/23/2012 7:52:32 PM
3	20.26	50uL	1	*******	E	3/23/2012 7:55:09 PM
4	11.08	50uL	1	*******		3/23/2012 7:57:34 PM
5	11.33	50uL	1	*******		3/23/2012 7:59:57 PM

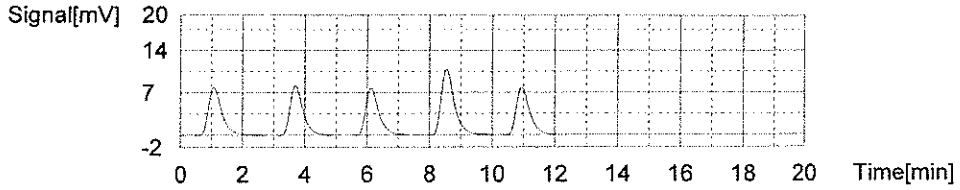
Acid Add.	1.500%
Sp. Time	90.00sec
Mean Area	12.23



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	23.75	50uL	1	*******		3/23/2012 8:08:28 PM
2	24.05	50uL	1	*******		3/23/2012 8:11:04 PM
3	23.01	50uL	1	*******		3/23/2012 8:13:40 PM
4	31.86	50uL	1	*******	E	3/23/2012 8:16:15 PM
5	23.74	50uL	1	*******		3/23/2012 8:18:48 PM

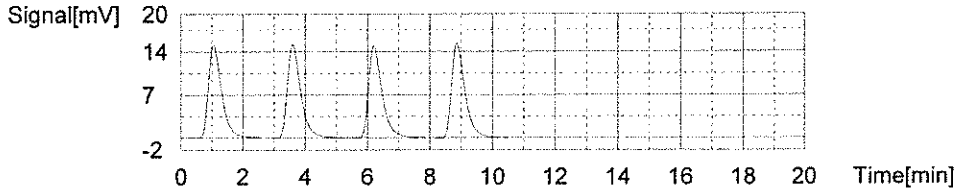
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 23.64



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	44.96	50uL	1	*******		3/23/2012 8:27:13 PM
2	45.40	50uL	1	*******		3/23/2012 8:30:00 PM
3	45.52	50uL	1	*******		3/23/2012 8:32:50 PM
4	46.15	50uL	1	*******		3/23/2012 8:35:43 PM

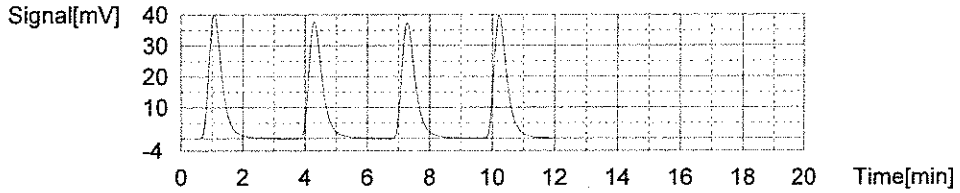
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 45.51



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	120.5	50uL	1	*******		3/23/2012 8:44:54 PM
2	115.7	50uL	1	*******		3/23/2012 8:48:04 PM
3	116.3	50uL	1	*******		3/23/2012 8:51:12 PM
4	118.8	50uL	1	*******		3/23/2012 8:54:17 PM

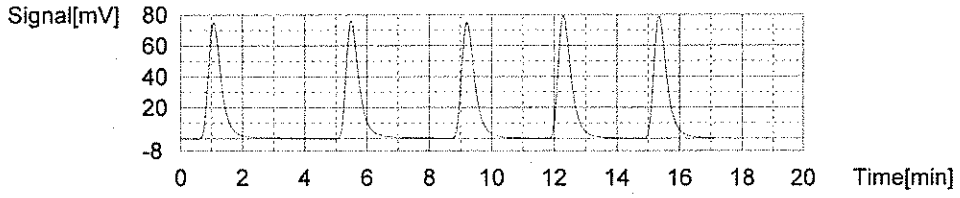
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 117.8



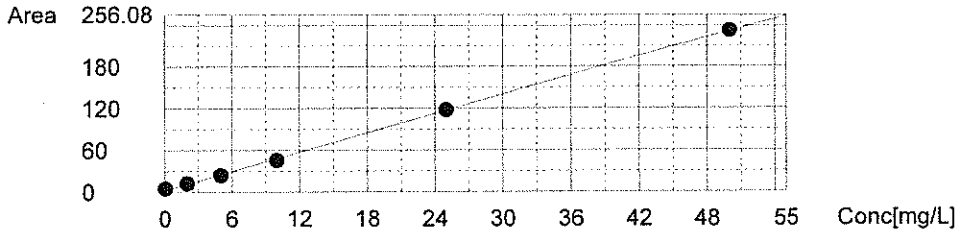
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	228.9	50uL	1	*******		3/23/2012 9:04:40 PM
2	233.2	50uL	1	*******		3/23/2012 9:08:34 PM
3	230.8	50uL	1	*******		3/23/2012 9:11:50 PM
4	240.8	50uL	1	*******	E	3/23/2012 9:15:04 PM
5	238.3	50uL	1	*******		3/23/2012 9:18:16 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 232.8



Slope:	4.604
Intercept	2.199
r^2	0.9995
r	0.9998
Zero Shift	No



	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:9.512mg/L	
2	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.1102mg/L	
3	Unknown	NPOC	WBLKW-100112	Untitled	032312.met	NPOC:0.2158mg/L	
4	Unknown	NPOC	WLCSW	Untitled	032312.met	NPOC:9.861mg/L	
5	Unknown	NPOC	WLCSDW	Untitled	032312.met	NPOC:9.727mg/L	
6	Unknown	NPOC	1209887-01B	Untitled	032312.met	NPOC:1.021mg/L	
7	Unknown	NPOC	1209887-01BMS	Untitled	032312.met	NPOC:1.586mg/L	
8	Unknown	NPOC	1209887-01BMSD	Untitled	032312.met	NPOC:1.465mg/L	
9	Unknown	NPOC	1209887-02B	Untitled	032312.met	NPOC:1.063mg/L	
10	Unknown	NPOC	1209887-03B	Untitled	032312.met	NPOC:1.096mg/L	
11	Unknown	NPOC	1209887-04B	Untitled	032312.met	NPOC:402.7mg/L	
12	Unknown	NPOC	1209887-05B	Untitled	032312.met	NPOC:18.26mg/L	
13	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.21mg/L	
14	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.5286mg/L	
15	Unknown	NPOC	1209887-06B	Untitled	032312.met	NPOC:27.11mg/L	
16	Unknown	NPOC	1209887-01C	Untitled	032312.met	NPOC:1.339mg/L	
17	Unknown	NPOC	1209887-01CMS	Untitled	032312.met	NPOC:1.714mg/L	
18	Unknown	NPOC	1209887-01CMSD	Untitled	032312.met	NPOC:1.486mg/L	
19	Unknown	NPOC	1209887-02C	Untitled	032312.met	NPOC:1.102mg/L	
20	Unknown	NPOC	1209887-03C	Untitled	032312.met	NPOC:0.9772mg/L	
21	Unknown	NPOC	1209887-04C	Untitled	032312.met	NPOC:522.8mg/L	
22	Unknown	NPOC	1209887-05C	Untitled	032312.met	NPOC:28.41mg/L	
23	Unknown	NPOC	1209887-06C	Untitled	032312.met	NPOC:31.52mg/L	
24	Unknown	NPOC	1209884-01B	Untitled	032312.met	NPOC:7.410mg/L	
25	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.04mg/L	
26	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.6186mg/L	
27	Unknown	NPOC	1209927-01C	Untitled	032312.met	NPOC:11.39mg/L	
28	Unknown	NPOC	1209878-01C	Untitled	032312.met	NPOC:14.73mg/L	
29	Unknown	NPOC	1209878-02C	Untitled	032312.met	NPOC:4.397mg/L	
30	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.57mg/L	
31	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.8600mg/L	
32	Unknown	NPOC	1209887-01B	Untitled	032312.met	NPOC:1.120mg/L	
33	Unknown	NPOC	1209887-01BMS	Untitled	032312.met	NPOC:12.46mg/L	
34	Unknown	NPOC	1209887-01BMSD	Untitled	032312.met	NPOC:12.50mg/L	
35	Unknown	NPOC	1209887-01C	Untitled	032312.met	NPOC:1.147mg/L	
36	Unknown	NPOC	1209887-01CMS	Untitled	032312.met	NPOC:20.10mg/L	
37	Unknown	NPOC	1209887-01CMSD	Untitled	032312.met	NPOC:20.20mg/L	
38	Unknown	NPOC	1209887-04BDF20	Untitled	032312.met	NPOC:24.20mg/L	
39	Unknown	NPOC	1209887-04CDF20	Untitled	032312.met	NPOC:25.13mg/L	
40	Unknown	NPOC	CCV	Untitled	032312.met	NPOC:10.33mg/L	
41	Unknown	NPOC	CCB	Untitled	032312.met	NPOC:0.3723mg/L	

	Status	Date / Time	Vial
1	Completed	10/1/2012 7:37:49 PM	1
2	Completed	10/1/2012 7:52:24 PM	2
3	Completed	10/1/2012 8:06:51 PM	3
4	Completed	10/1/2012 8:20:44 PM	4
5	Completed	10/1/2012 8:34:47 PM	5
6	Completed	10/1/2012 8:47:28 PM	6
7	Completed	10/1/2012 9:02:41 PM	7
8	Completed	10/1/2012 9:17:44 PM	8
9	Completed	10/1/2012 9:32:36 PM	9
10	Completed	10/1/2012 9:47:35 PM	10
11	Completed	10/1/2012 10:05:11 PM	11
12	Completed	10/1/2012 10:19:23 PM	12
13	Completed	10/1/2012 10:36:00 PM	13
14	Completed	10/1/2012 10:50:37 PM	14
15	Completed	10/1/2012 11:07:20 PM	15
16	Completed	10/1/2012 11:22:20 PM	16
17	Completed	10/1/2012 11:37:27 PM	17
18	Completed	10/1/2012 11:52:27 PM	18
19	Completed	10/2/2012 12:07:23 AM	19
20	Completed	10/2/2012 12:22:11 AM	20
21	Completed	10/2/2012 12:40:46 AM	21
22	Completed	10/2/2012 12:54:54 AM	22
23	Completed	10/2/2012 1:11:53 AM	23
24	Completed	10/2/2012 1:25:22 AM	24
25	Completed	10/2/2012 1:41:47 AM	25
26	Completed	10/2/2012 1:56:16 AM	26
27	Completed	10/2/2012 2:12:32 AM	27
28	Completed	10/2/2012 2:26:31 AM	28
29	Completed	10/2/2012 2:39:47 AM	29
30	Completed	10/2/2012 2:53:21 AM	30
31	Completed	10/2/2012 3:08:06 AM	31
32	Completed	10/2/2012 7:13:16 PM	32
33	Completed	10/2/2012 7:26:57 PM	33
34	Completed	10/2/2012 7:40:47 PM	34
35	Completed	10/2/2012 7:55:45 PM	35
36	Completed	10/2/2012 8:12:12 PM	36
37	Completed	10/2/2012 8:25:56 PM	37
38	Completed	10/2/2012 8:39:46 PM	38
39	Completed	10/2/2012 8:53:37 PM	39
40	Completed	10/2/2012 9:07:26 PM	40
41	Completed	10/2/2012 9:22:03 PM	41

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

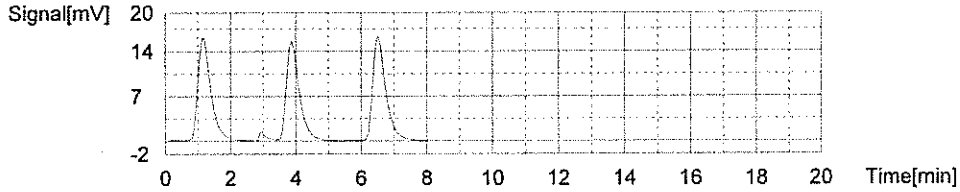
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.512mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	45.91	9.494mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:32:06 PM
2	45.99	9.512mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:34:57 PM
3	46.08	9.531mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:37:49 PM

Mean Area 45.99
Mean Conc. 9.512mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	032312.met
Status	Completed
Chk. Result	

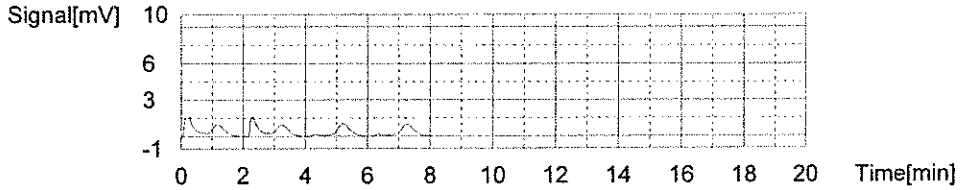
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.1102mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.512	-0.1493mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:45:50 PM
2	5.775	0.7766mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:48:01 PM
3	3.383	0.2571mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:50:15 PM
4	3.226	0.2230mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 7:52:24 PM

Mean Area 2.707
Mean Conc. 0.1102mg/L



Sample

Sample Name: WBLKW-100112
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

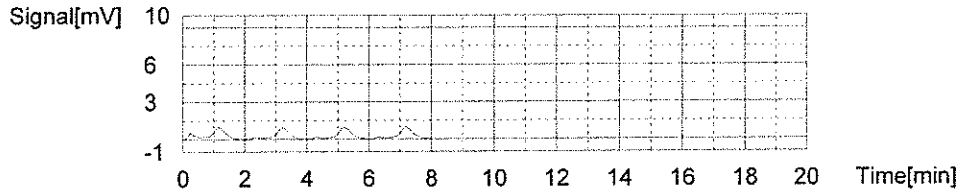
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.2158mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.850	0.3585mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:00:20 PM
2	3.144	0.2052mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:02:31 PM
3	3.201	0.2175mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:04:41 PM
4	3.234	0.2247mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:06:51 PM

Mean Area 3.193
Mean Conc. 0.2158mg/L



Sample

Sample Name: WLCSW
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

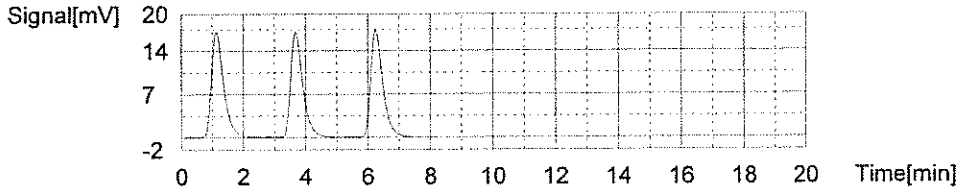
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.861mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	47.37	9.811mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:15:16 PM
2	47.18	9.770mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:18:01 PM
3	48.24	10.00mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:20:44 PM

Mean Area 47.60
Mean Conc. 9.861mg/L



Sample

Sample Name: WLCSDW
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

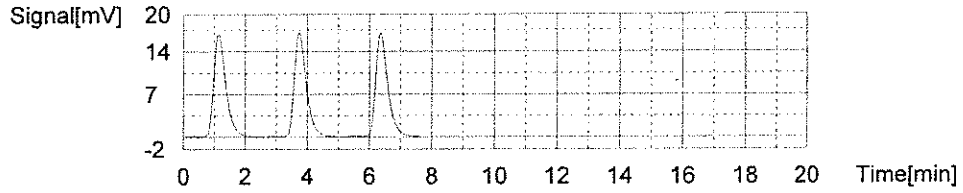
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.727mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.75	9.677mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:29:17 PM
2	47.01	9.733mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:32:05 PM
3	47.18	9.770mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:34:47 PM

Mean Area 46.98
Mean Conc. 9.727mg/L



Sample

Sample Name: 1209887-01B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

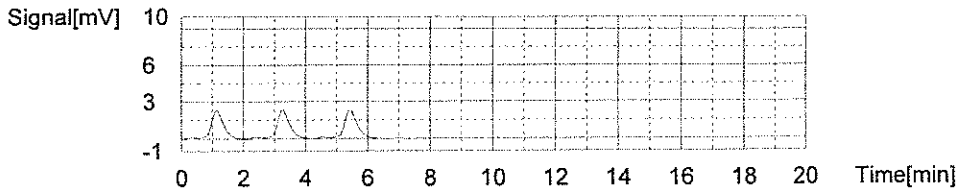
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.021mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.983	1.039mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:42:52 PM
2	6.882	1.017mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:45:13 PM
3	6.833	1.006mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:47:28 PM

Mean Area 6.899
Mean Conc. 1.021mg/L



Sample

Sample Name: 1209887-01BMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

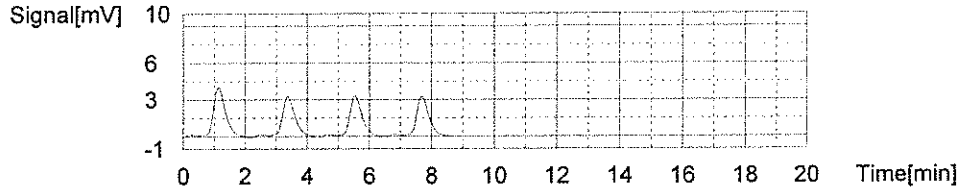
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.586mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.45	2.009mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:55:39 PM
2	9.614	1.610mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 8:58:00 PM
3	9.504	1.587mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:00:20 PM
4	9.381	1.560mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:02:41 PM

Mean Area 9.500
Mean Conc. 1.586mg/L



Sample

Sample Name: 1209887-01BMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

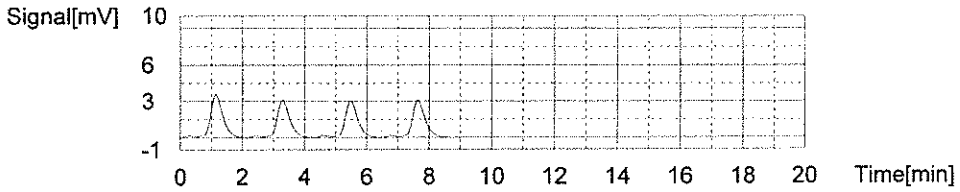
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.465mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.32	1.764mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:10:42 PM
2	9.087	1.496mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:13:04 PM
3	8.819	1.438mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:15:25 PM
4	8.925	1.461mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:17:44 PM

Mean Area 8.944
Mean Conc. 1.465mg/L



Sample

Sample Name: 1209887-02B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

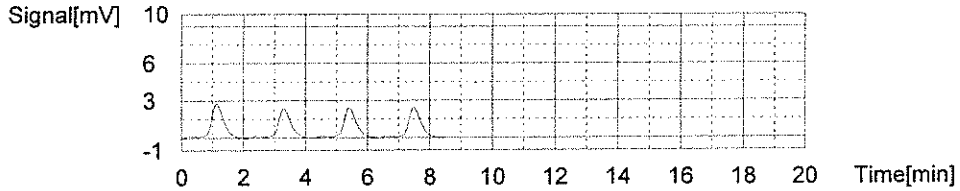
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.063mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.143	1.291mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:25:46 PM
2	7.114	1.067mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:28:04 PM
3	7.069	1.058mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:30:20 PM
4	7.099	1.064mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:32:36 PM

Mean Area 7.094
Mean Conc. 1.063mg/L



Sample

Sample Name: 1209887-03B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

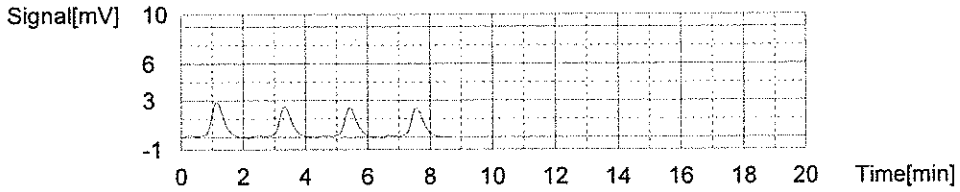
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.096mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.716	1.415mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:40:40 PM
2	7.366	1.122mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:42:57 PM
3	7.133	1.072mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:45:16 PM
4	7.239	1.095mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:47:35 PM

Mean Area 7.246
Mean Conc. 1.096mg/L



Sample

Sample Name: 1209887-04B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

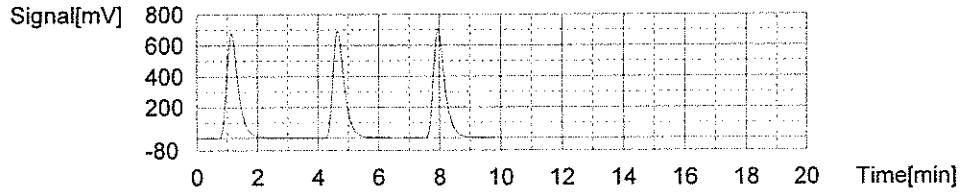
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:402.7mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1828	396.6mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 9:56:57 PM
2	1852	401.8mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:00:57 PM
3	1888	409.6mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:05:11 PM

Mean Area 1856
Mean Conc. 402.7mg/L



Sample

Sample Name: 1209887-05B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

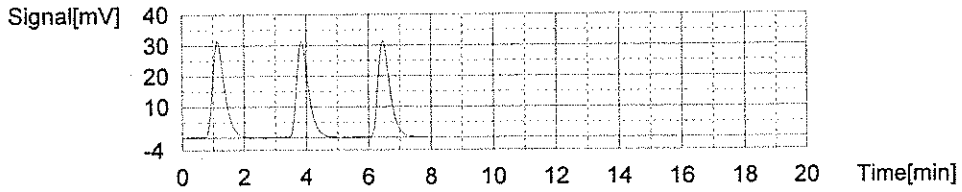
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:18.26mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	87.53	18.53mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:13:51 PM
2	85.67	18.13mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:16:39 PM
3	85.54	18.10mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:19:23 PM

Mean Area 86.25
Mean Conc. 18.26mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

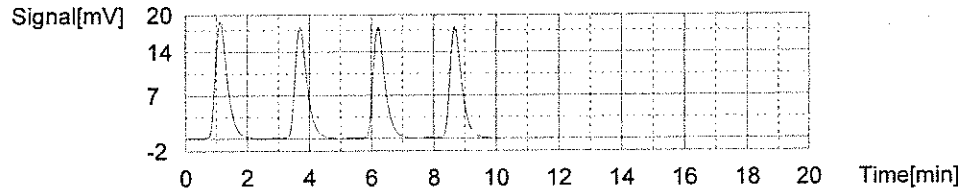
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	52.11	10.84mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:27:54 PM
2	49.45	10.26mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:30:36 PM
3	49.19	10.21mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:33:15 PM
4	48.97	10.16mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:36:00 PM

Mean Area 49.20
Mean Conc. 10.21mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

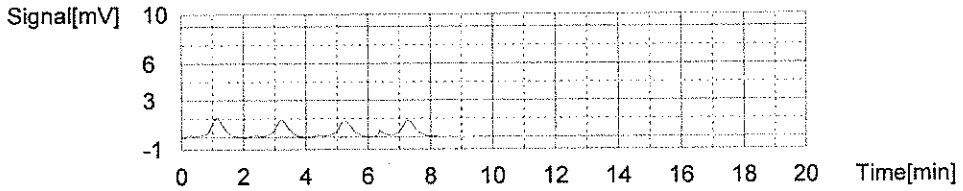
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5286mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.045	0.6181mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:43:57 PM
2	4.560	0.5127mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:46:10 PM
3	4.489	0.4973mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:48:22 PM
4	4.850	0.5757mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:50:37 PM

Mean Area 4.633
Mean Conc. 0.5286mg/L



Sample

Sample Name: 1209887-06B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

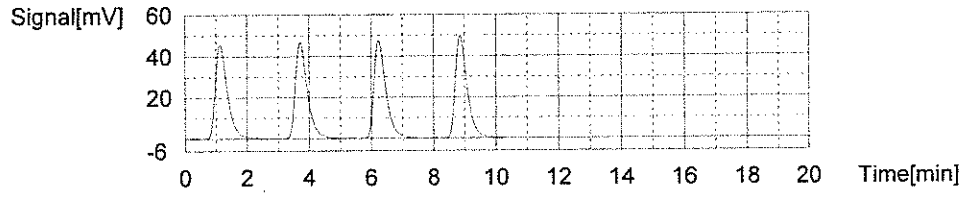
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:27.11mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.2	26.50mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 10:59:04 PM
2	127.6	27.24mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:01:47 PM
3	129.2	27.59mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:04:35 PM
4	133.9	28.61mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:07:20 PM

Mean Area 127.0
Mean Conc. 27.11mg/L



Sample

Sample Name: 1209887-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

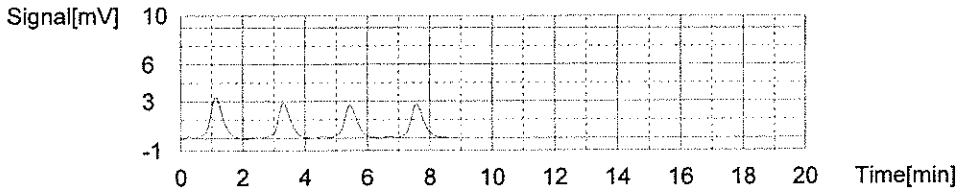
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.339mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	10.15	1.727mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:15:23 PM
2	8.583	1.387mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:17:42 PM
3	8.203	1.304mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:20:01 PM
4	8.301	1.325mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:22:20 PM

Mean Area 8.362
Mean Conc. 1.339mg/L



Sample

Sample Name: 1209887-01CMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

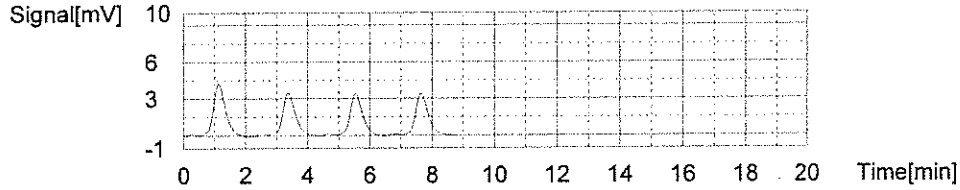
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.714mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	12.40	2.216mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:30:27 PM
2	10.27	1.753mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:32:48 PM
3	10.05	1.705mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:35:05 PM
4	9.947	1.683mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:37:27 PM

Mean Area 10.09
Mean Conc. 1.714mg/L



Sample

Sample Name: 1209887-01CMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

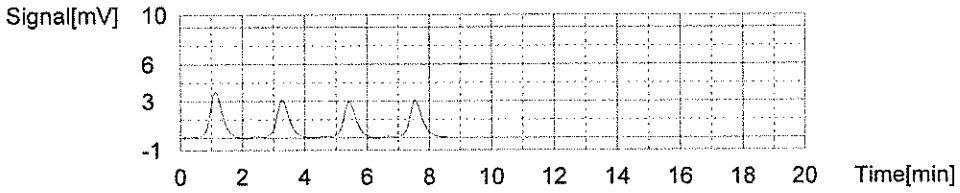
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.486mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.20	1.955mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:45:28 PM
2	9.239	1.529mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:47:48 PM
3	8.883	1.452mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:50:06 PM
4	8.995	1.476mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/1/2012 11:52:27 PM

Mean Area 9.039
Mean Conc. 1.486mg/L



Sample

Sample Name: 1209887-02C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

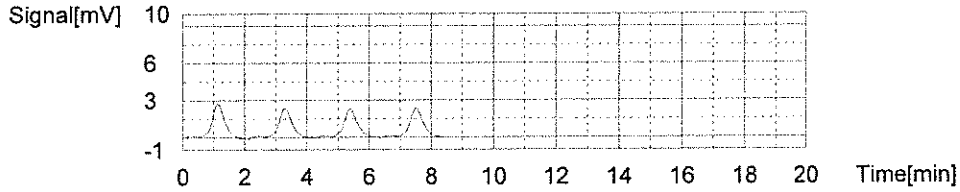
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.102mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.505	1.370mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:00:29 AM
2	7.345	1.118mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:02:46 AM
3	7.160	1.077mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:05:04 AM
4	7.310	1.110mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:07:23 AM

Mean Area 7.272
Mean Conc. 1.102mg/L



Sample

Sample Name: 1209887-03C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

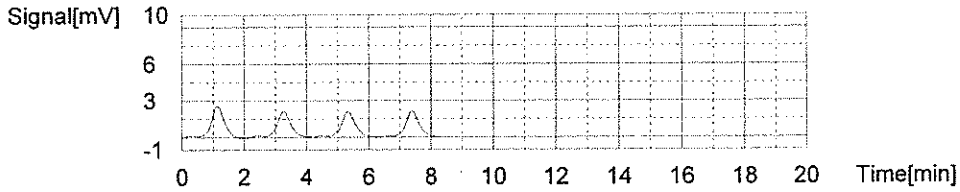
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.9772mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.120	1.286mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:15:23 AM
2	6.757	0.9899mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:17:38 AM
3	6.600	0.9558mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:19:53 AM
4	6.738	0.9858mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:22:11 AM

Mean Area 6.698
Mean Conc. 0.9772mg/L



Sample

Sample Name: 1209887-04C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

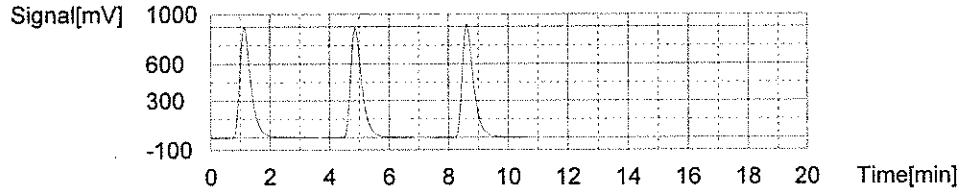
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:522.8mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2401	521.0mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:31:47 AM
2	2384	517.3mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:36:12 AM
3	2443	530.2mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:40:46 AM

Mean Area 2409
Mean Conc. 522.8mg/L



Sample

Sample Name: 1209887-05C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

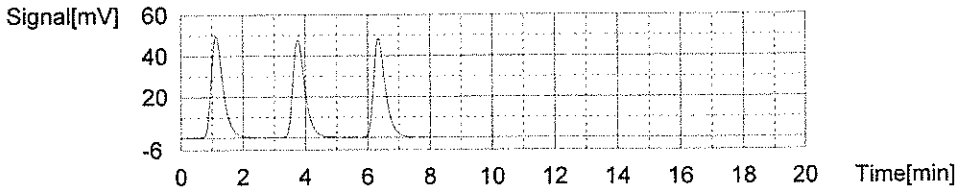
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:28.41mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	135.5	28.95mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:49:21 AM
2	131.5	28.08mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:52:07 AM
3	132.0	28.19mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 12:54:54 AM

Mean Area 133.0
Mean Conc. 28.41mg/L



Sample

Sample Name: 1209887-06C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

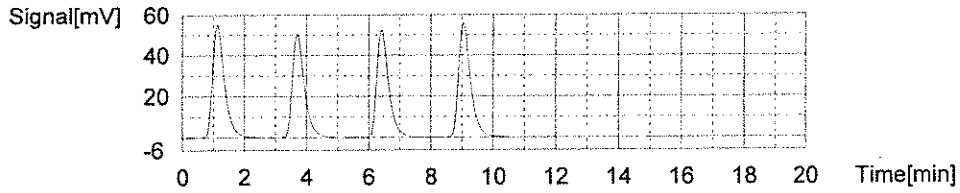
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:31.52mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	148.2	31.71mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:03:25 AM
2	138.0	29.50mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:06:19 AM
3	142.5	30.47mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:09:08 AM
4	151.3	32.39mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:11:53 AM

Mean Area 147.3
Mean Conc. 31.52mg/L



Sample

Sample Name: 1209884-01B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

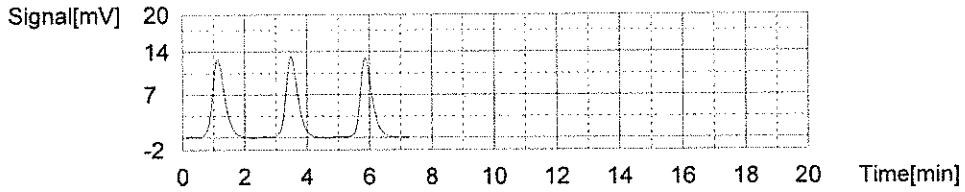
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.410mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	36.44	7.437mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:20:06 AM
2	36.93	7.544mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:22:39 AM
3	35.57	7.248mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:25:22 AM

Mean Area 36.31
Mean Conc. 7.410mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

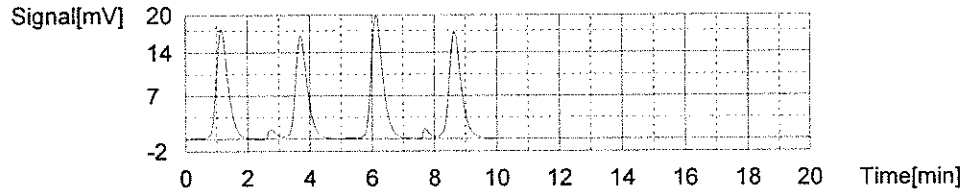
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.12	9.974mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:33:51 AM
2	47.11	9.755mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:36:29 AM
3	53.72	11.19mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:39:09 AM
4	49.98	10.38mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:41:47 AM

Mean Area 48.40
Mean Conc. 10.04mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

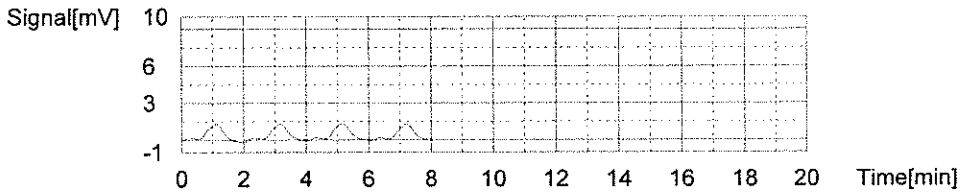
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.6186mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.473	0.7110mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:49:43 AM
2	5.034	0.6157mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:51:54 AM
3	5.241	0.6606mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:54:07 AM
4	4.867	0.5794mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 1:56:16 AM

Mean Area 5.047
Mean Conc. 0.6186mg/L



Sample

Sample Name: 1209927-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

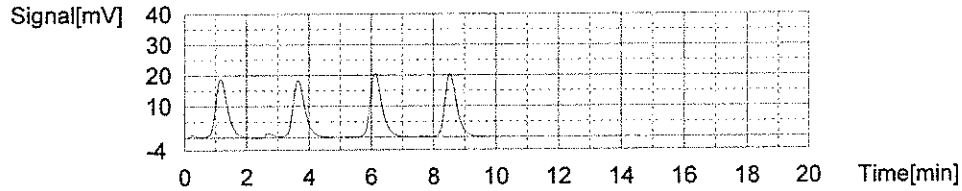
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.39mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	52.26	10.87mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:04:38 AM
2	51.62	10.73mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:07:19 AM
3	56.10	11.71mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:09:54 AM
4	55.55	11.59mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:12:32 AM

Mean Area 54.64
Mean Conc. 11.39mg/L



Sample

Sample Name: 1209878-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

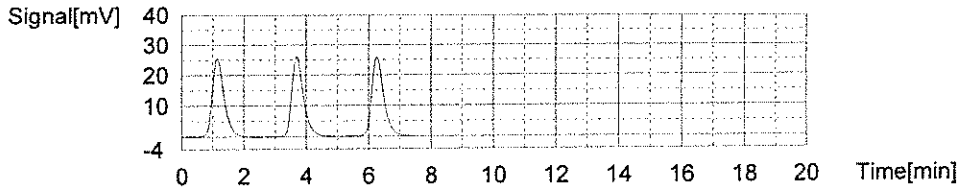
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.73mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	69.32	14.58mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:20:58 AM
2	70.18	14.77mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:23:43 AM
3	70.49	14.83mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:26:31 AM

Mean Area 70.00
Mean Conc. 14.73mg/L



Sample

Sample Name: 1209878-02C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

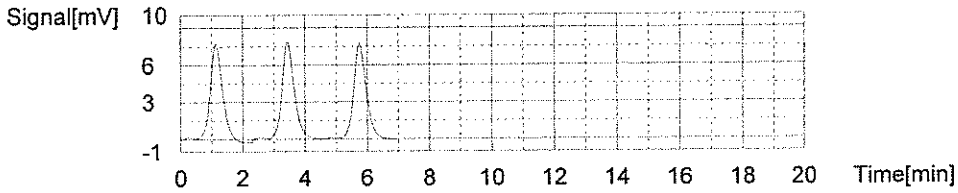
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.397mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	22.54	4.418mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:34:47 AM
2	22.32	4.370mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:37:17 AM
3	22.47	4.403mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:39:47 AM

Mean Area 22.44
Mean Conc. 4.397mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

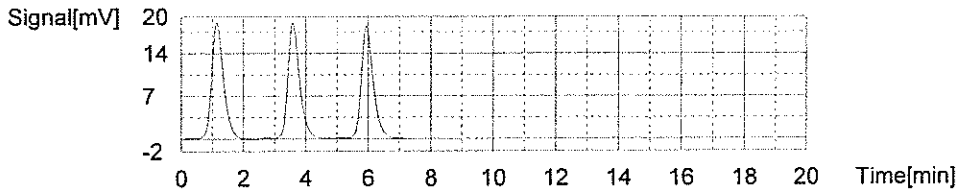
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.57mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	51.85	10.78mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:48:12 AM
2	50.80	10.56mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:50:44 AM
3	50.00	10.38mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 2:53:21 AM

Mean Area 50.88
Mean Conc. 10.57mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

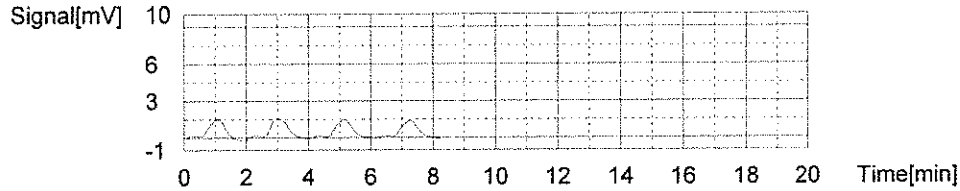
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8600mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.406	0.9137mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 3:01:21 AM
2	6.336	0.8985mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 3:03:34 AM
3	5.735	0.7679mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 3:05:51 AM
4	5.439	0.7036mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 3:08:06 AM

Mean Area 6.159
Mean Conc. 0.8600mg/L



Sample

Sample Name: 1209887-01B
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

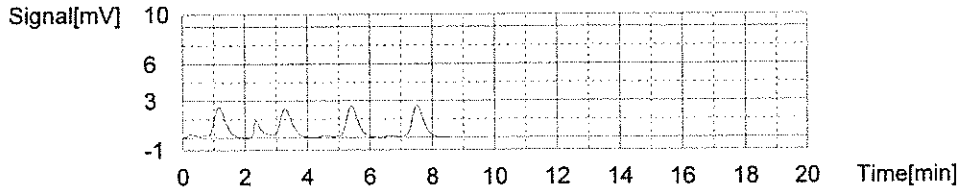
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.120mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.617	1.177mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:06:23 PM
2	9.036	1.485mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:08:43 PM
3	7.181	1.082mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:11:00 PM
4	7.265	1.100mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:13:16 PM

Mean Area 7.354
Mean Conc. 1.120mg/L



Sample

Sample Name: 1209887-01BMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

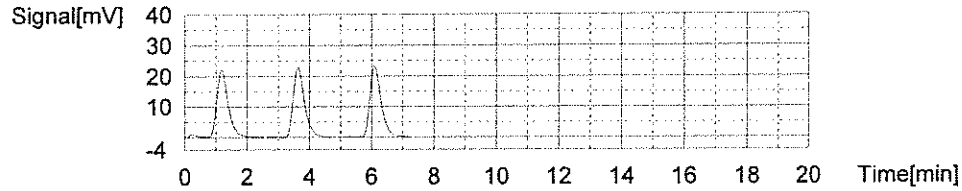
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.46mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.34	12.41mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:21:38 PM
2	59.34	12.41mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:24:17 PM
3	60.07	12.57mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:26:57 PM

Mean Area 59.58
Mean Conc. 12.46mg/L



Sample

Sample Name: 1209887-01BMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

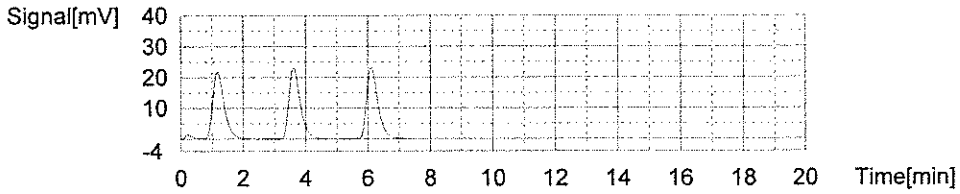
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.50mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.31	12.40mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:35:23 PM
2	59.71	12.49mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:38:04 PM
3	60.18	12.59mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:40:47 PM

Mean Area 59.73
Mean Conc. 12.50mg/L



Sample

Sample Name: 1209887-01C
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

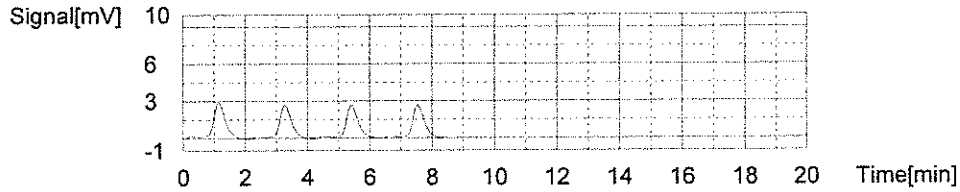
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.147mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.211	1.306mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:48:53 PM
2	7.605	1.174mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:51:12 PM
3	7.436	1.137mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:53:31 PM
4	7.396	1.129mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 7:55:45 PM

Mean Area 7.479
Mean Conc. 1.147mg/L



Sample

Sample Name: 1209887-01CMS
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

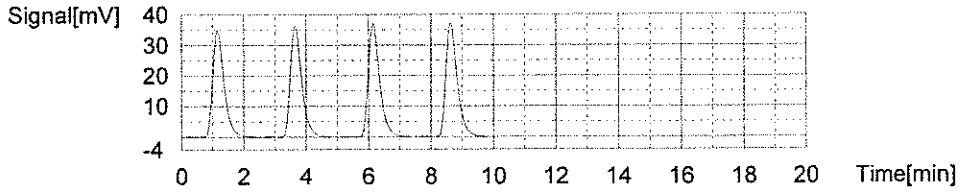
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.10mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	89.97	19.06mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:04:08 PM
2	93.59	19.85mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:06:49 PM
3	95.01	20.16mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:09:29 PM
4	95.65	20.30mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:12:12 PM

Mean Area 94.75
Mean Conc. 20.10mg/L



Sample

Sample Name: 1209887-01CMSD
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

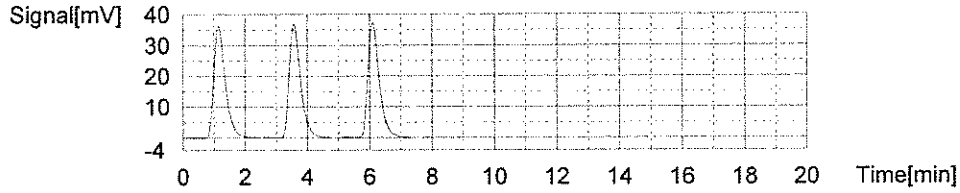
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	94.50	20.05mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:20:31 PM
2	95.09	20.18mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:23:13 PM
3	96.03	20.38mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:25:56 PM

Mean Area 95.21
Mean Conc. 20.20mg/L



Sample

Sample Name: 1209887-04BDF20
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

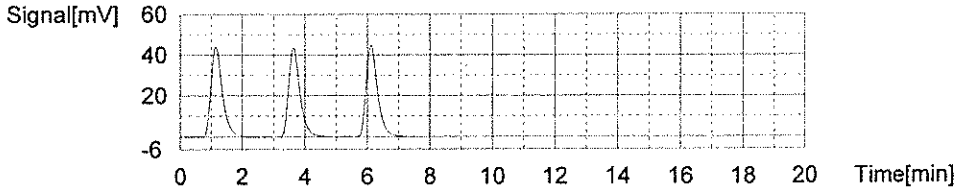
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:24.20mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	113.6	24.20mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:34:23 PM
2	111.8	23.81mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:37:03 PM
3	115.4	24.59mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:39:46 PM

Mean Area 113.6
Mean Conc. 24.20mg/L



Sample

Sample Name: 1209887-04CDF20
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

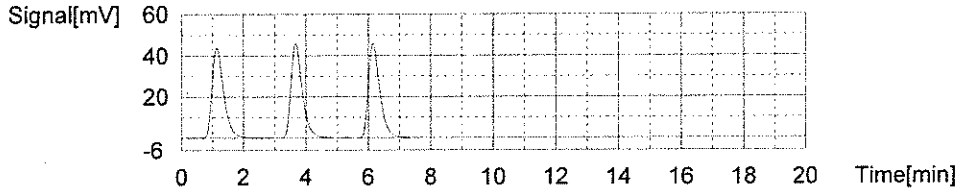
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.13mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	117.1	24.96mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:48:16 PM
2	117.9	25.13mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:50:56 PM
3	118.7	25.30mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 8:53:37 PM

Mean Area 117.9
Mean Conc. 25.13mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

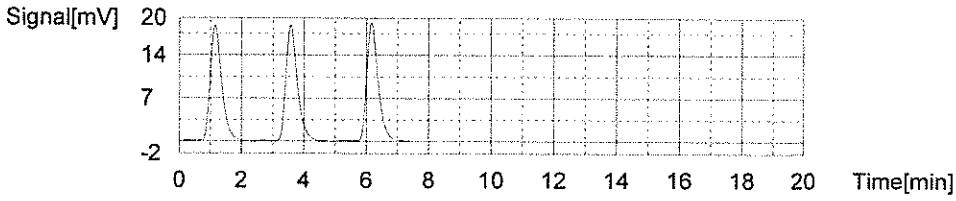
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.33mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.52	10.28mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:02:01 PM
2	49.79	10.34mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:04:47 PM
3	50.03	10.39mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:07:26 PM

Mean Area 49.78
Mean Conc. 10.33mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 032312.met
Status Completed
Chk. Result

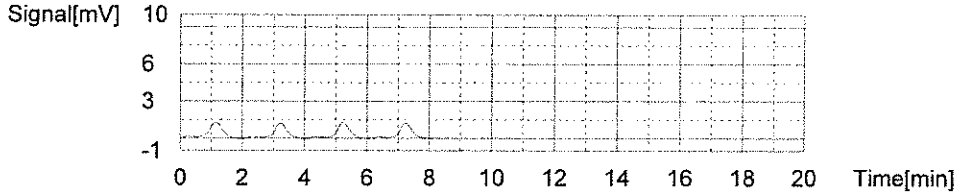
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3723mg/L

1. Det

Anal.: NPOC

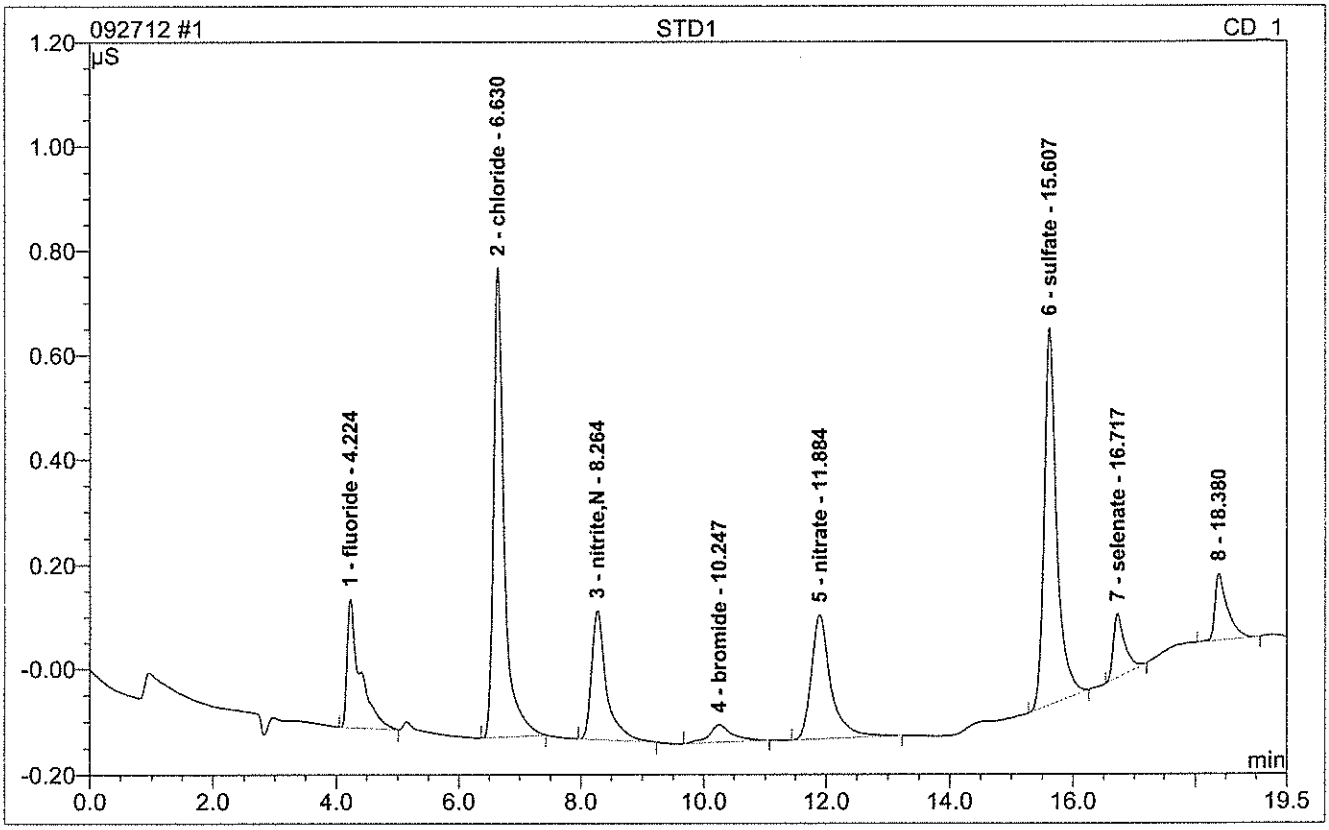
No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.358	0.4688mg/L	50uL	1	E	ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:15:29 PM
2	3.874	0.3637mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:17:40 PM
3	3.995	0.3900mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:19:51 PM
4	3.871	0.3631mg/L	50uL	1		ASI-V 032312CAL.2012_03_23_19_24_40.ca	10/2/2012 9:22:03 PM

Mean Area 3.913
Mean Conc. 0.3723mg/L



1 STD1

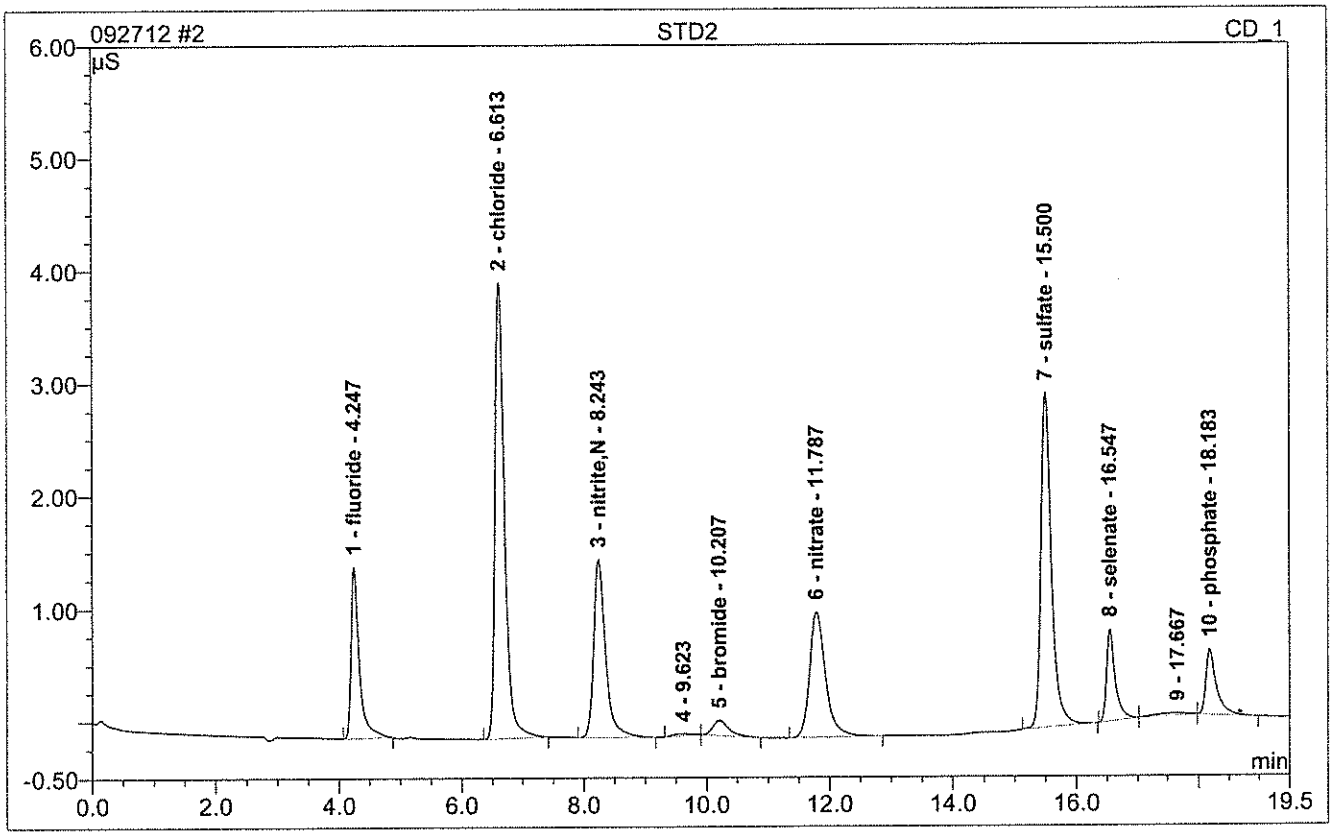
Sample Name:	**STD1**	*Injection Volume:*	**20.0**
Vial Number:	**51**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 18:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.22	fluoride	0.246	0.060	9.39	0.099	1.
2	6.63	chloride	0.897	0.181	28.32	0.483	1.
3	8.26	nitrite,N	0.247	0.069	10.77	0.081	1.
4	10.25	bromide	0.033	0.015	2.28	0.322	1.
5	11.88	nitrate	0.238	0.087	13.69	0.091	1.
6	15.61	sulfate	0.721	0.171	26.72	0.556	1.
7	16.72	selenate	0.123	0.026	4.11	0.218	1.
Total:			2.505	0.608	95.29	1.849	

2 STD2

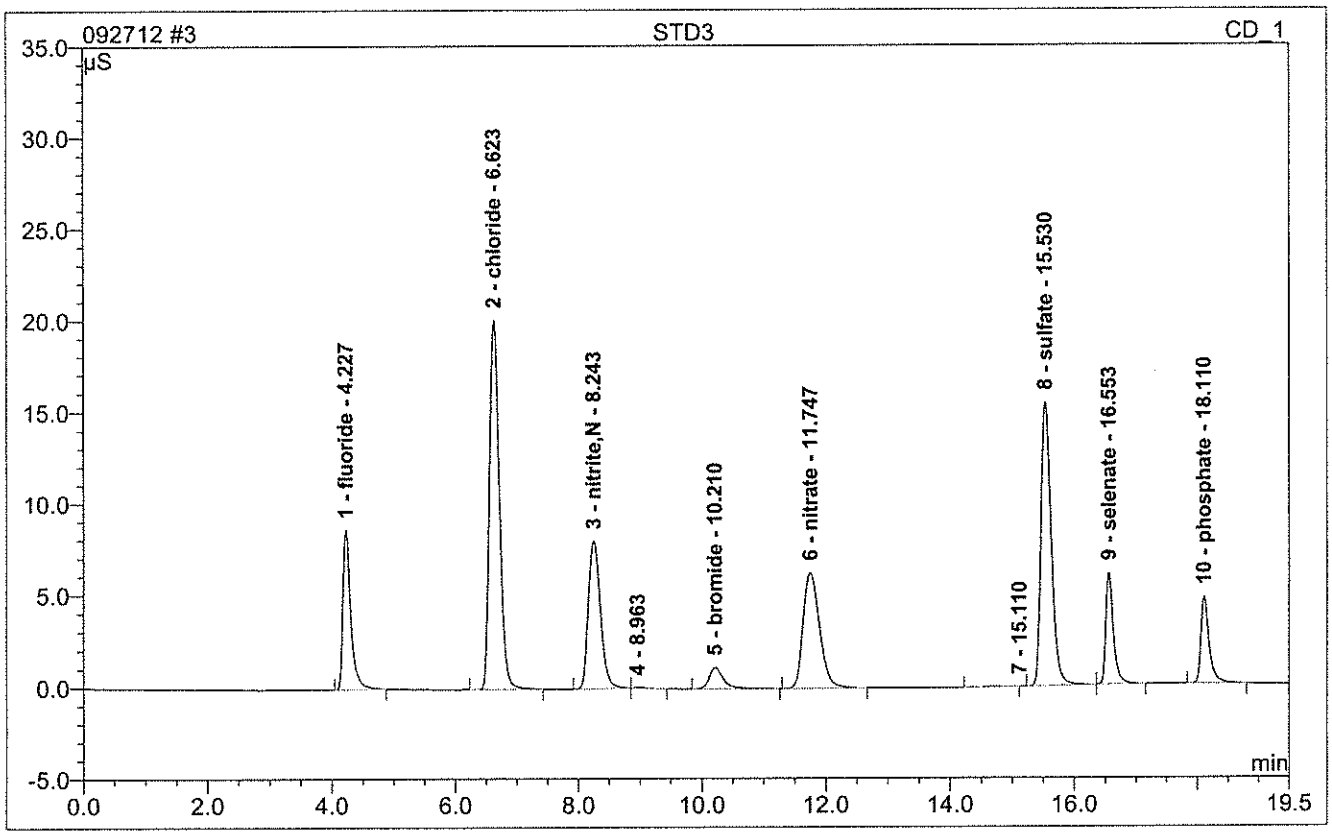
Sample Name:	**STD2**	*Injection Volume:*	**20.0**
Vial Number:	**52**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 18:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.25	fluoride	1.518	0.236	9.29	0.388	1.
2	6.61	chloride	4.043	0.725	28.57	1.936	1.
3	8.24	nitrite,N	1.574	0.352	13.88	0.414	1.
5	10.21	bromide	0.134	0.040	1.58	0.465	1.
6	11.79	nitrate	1.111	0.333	13.12	0.347	1.
7	15.50	sulfate	2.965	0.587	23.14	1.912	1.
8	16.55	selenate	0.813	0.132	5.20	0.436	1.
10	18.18	phosphate	0.578	0.114	4.48	0.305	1.
Total:			12.736	2.517	99.26	6.203	

3 STD3

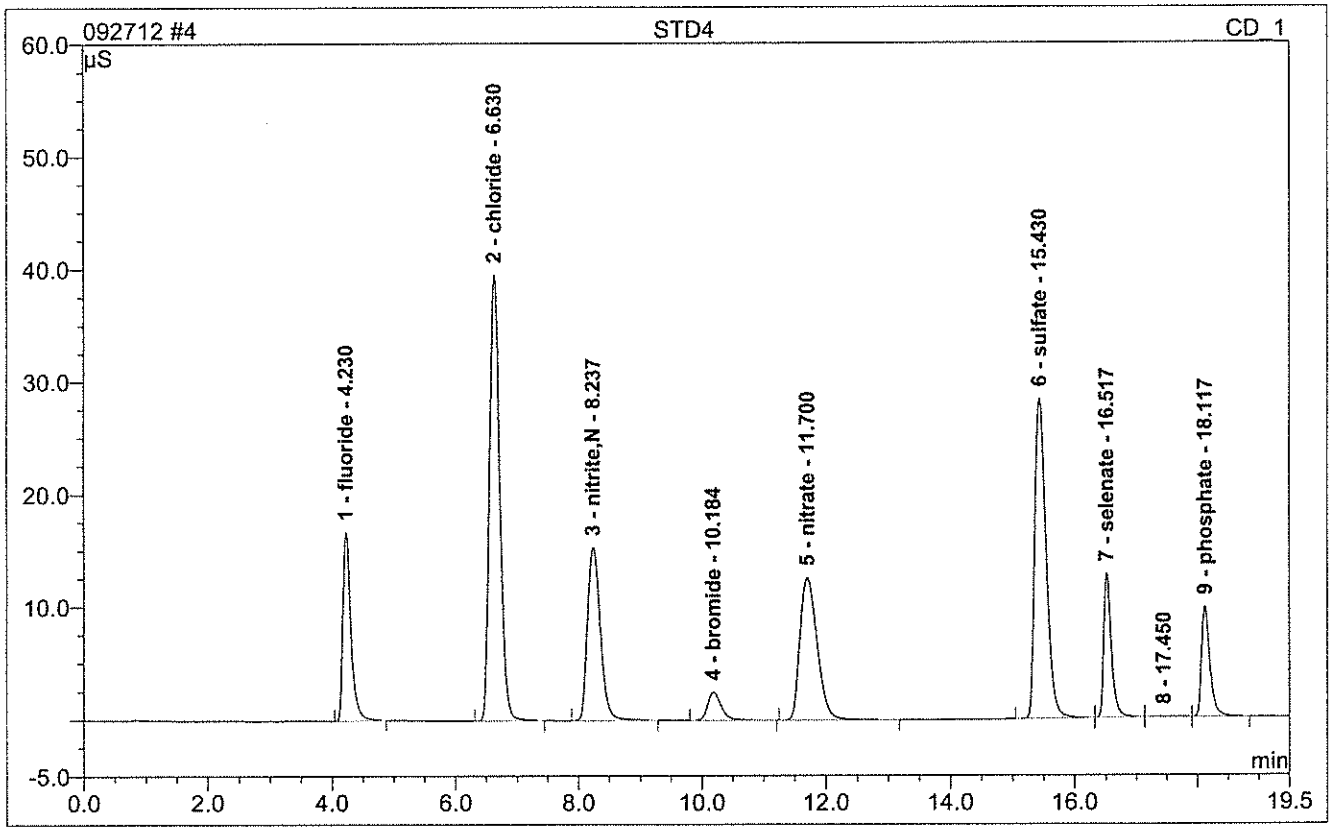
Sample Name:	**STD3**	*Injection Volume:*	**20.0**
Vial Number:	**53**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 18:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.23	fluoride	8.660	1.281	9.36	2.109	1.
2	6.62	chloride	20.121	3.736	27.28	9.982	1.
3	8.24	nitrite,N	8.034	1.838	13.42	2.164	1.
5	10.21	bromide	1.154	0.309	2.25	1.977	1.
6	11.75	nitrate	6.282	1.942	14.17	2.024	1.
8	15.53	sulfate	15.478	2.978	21.74	9.704	1.
9	16.55	selenate	6.093	0.859	6.27	1.940	1.
10	18.11	phosphate	4.732	0.740	5.41	1.988	1.
Total:			70.554	13.684	99.89	31.888	

4 STD4

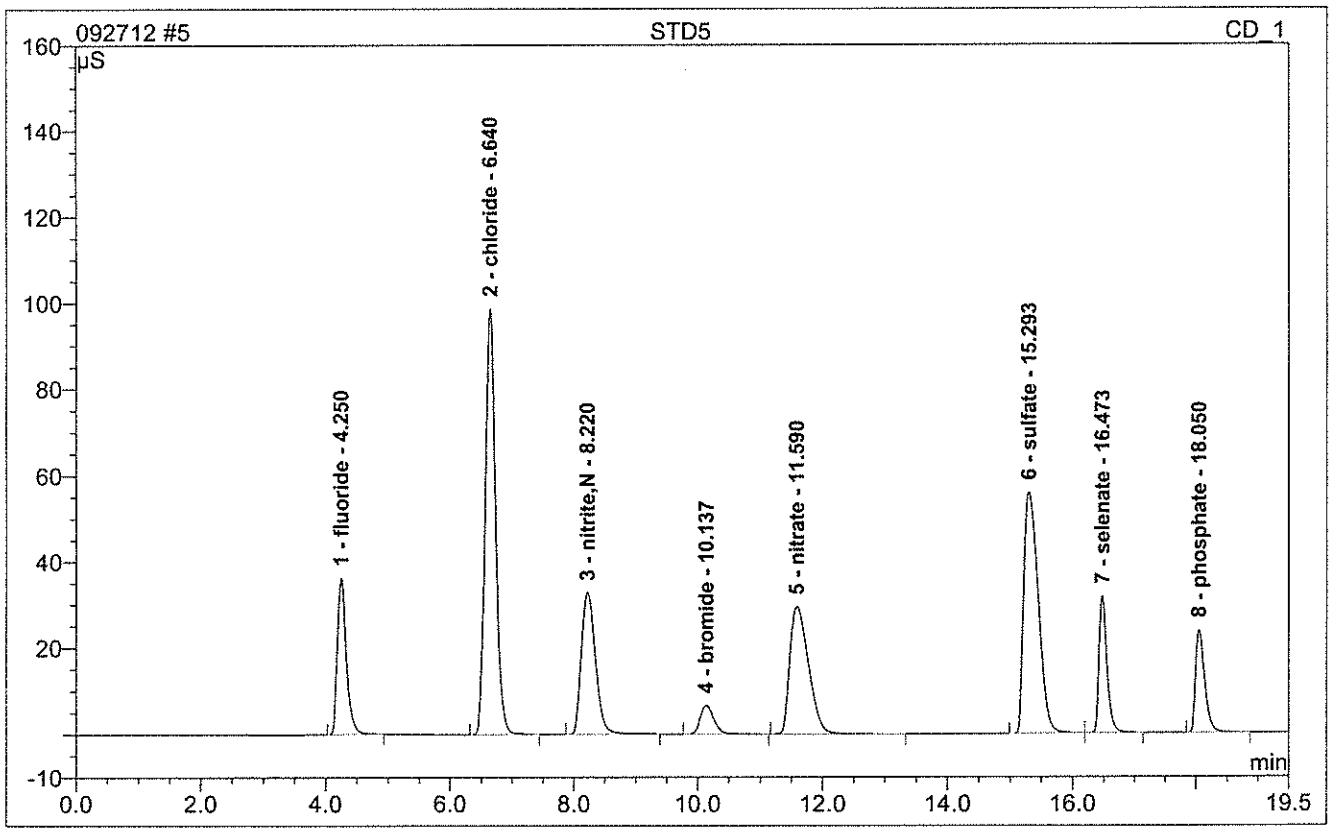
Sample Name:	**STD4**	*Injection Volume:*	**20.0**
Vial Number:	**54**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 19:13**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.23	fluoride	16.699	2.542	9.09	4.183	1.
2	6.63	chloride	39.519	7.591	27.15	20.280	1.
3	8.24	nitrite,N	15.296	3.731	13.34	4.393	1.
4	10.18	bromide	2.478	0.630	2.25	3.786	1.
5	11.70	nitrate	12.595	4.053	14.49	4.224	1.
6	15.43	sulfate	28.366	6.033	21.57	19.656	1.
7	16.52	selenate	12.746	1.816	6.49	3.921	1.
9	18.12	phosphate	9.730	1.561	5.58	4.190	1.
Total:			137.428	27.956	99.98	64.633	

5 STD5

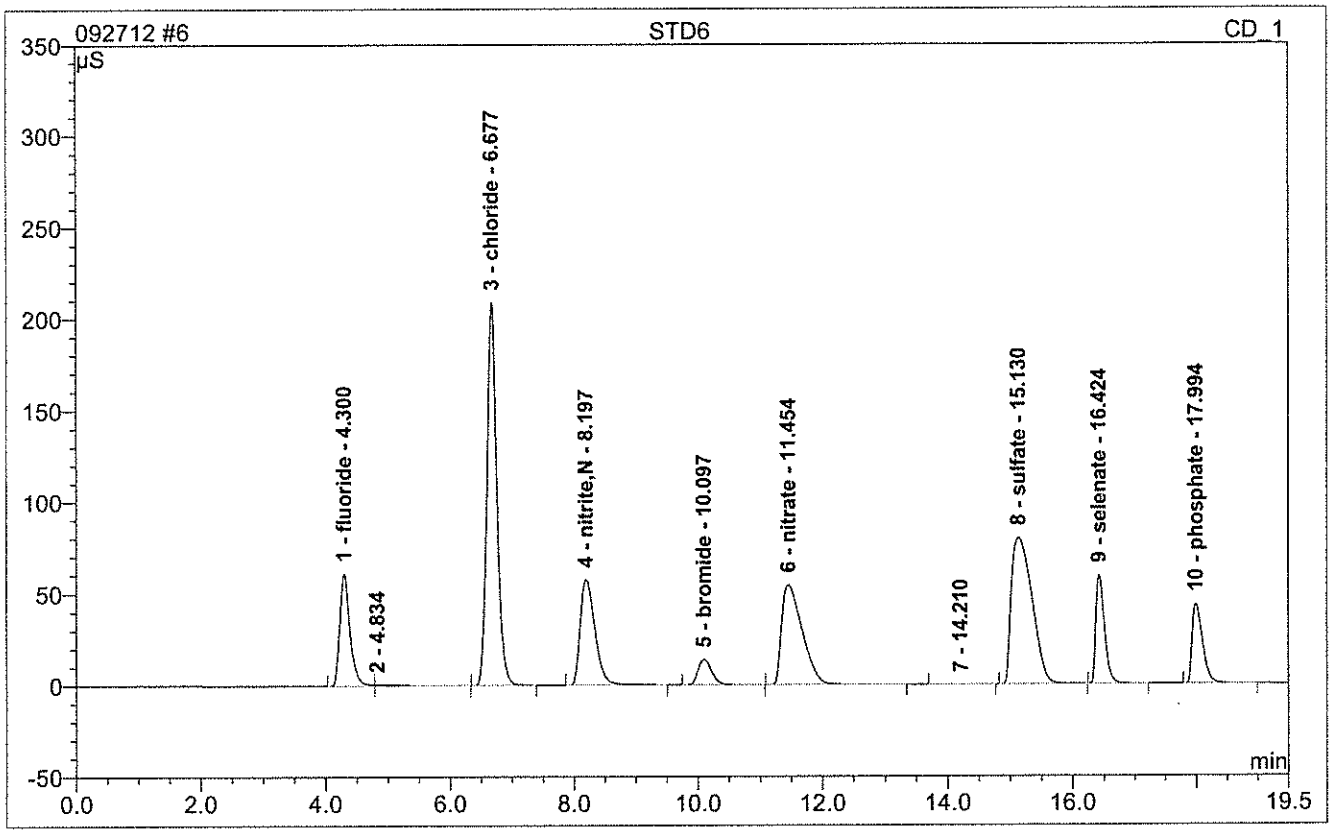
Sample Name:	**STD5**	*Injection Volume:*	**20.0**
Vial Number:	**55**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 19:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.25	fluoride	36.312	6.039	8.65	9.936	1.
2	6.64	chloride	98.797	19.116	27.40	51.068	1.
3	8.22	nitrite,N	32.865	8.747	12.54	10.300	1.
4	10.14	bromide	6.633	1.702	2.44	9.814	1.
5	11.59	nitrate	29.468	10.259	14.70	10.692	1.
6	15.29	sulfate	55.913	15.136	21.69	49.316	1.
7	16.47	selenate	31.774	4.719	6.76	9.928	1.
8	18.05	phosphate	23.749	4.055	5.81	10.888	1.
Total:			315.513	69.772	100.00	161.942	

6 STD6

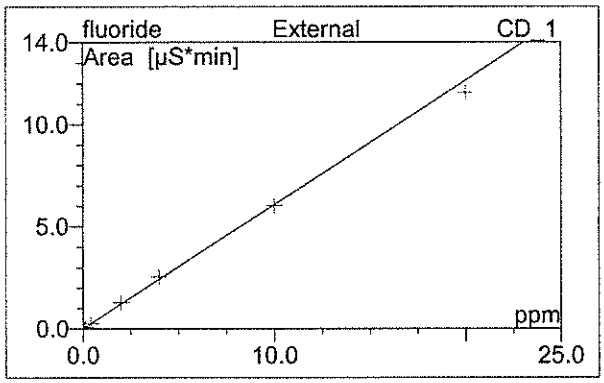
Sample Name:	**STD6**	*Injection Volume:*	**20.0**
Vial Number:	**56**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 19:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

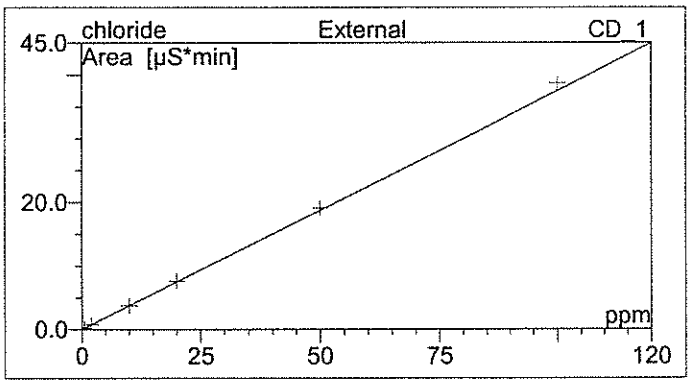


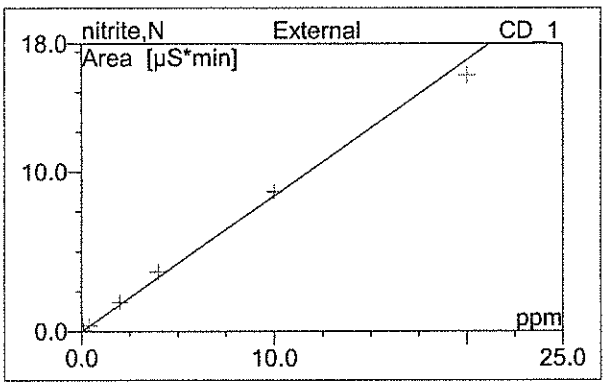
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.30	fluoride	61.154	11.559	8.30	19.020	1.
3	6.68	chloride	209.130	38.660	27.76	103.282	1.
4	8.20	nitrite,N	57.465	16.032	11.51	18.878	1.
5	10.10	bromide	13.832	3.536	2.54	20.136	1.
6	11.45	nitrate	54.419	20.827	14.95	21.707	1.
8	15.13	sulfate	79.763	30.479	21.88	99.306	1.
9	16.42	selenate	59.248	9.614	6.90	20.056	1.
10	17.99	phosphate	43.283	8.248	5.92	22.146	1.
Total:			578.294	138.956	99.77	324.532	

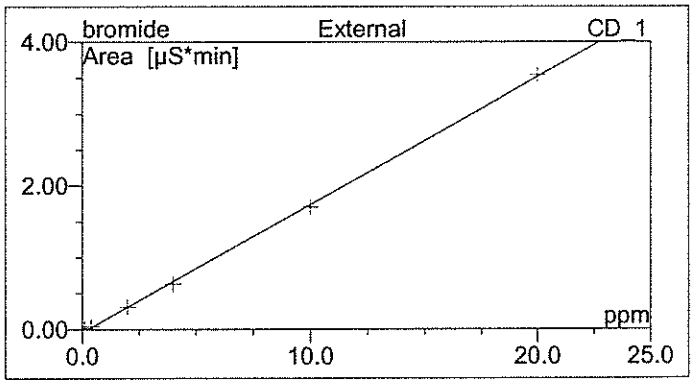
6 STD6

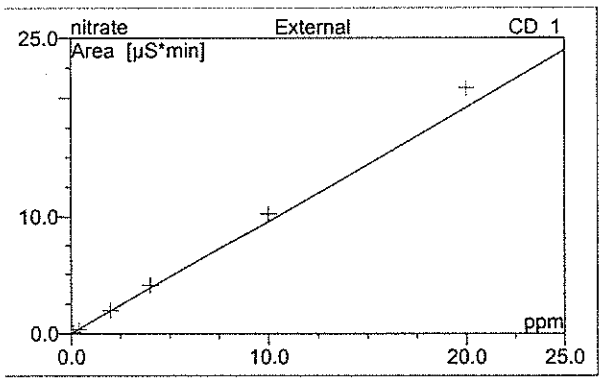
Sample Name:	**STD6**	*Injection Volume:*	**20.0**
Vial Number:	**56**	*Channel:*	**CD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 19:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**

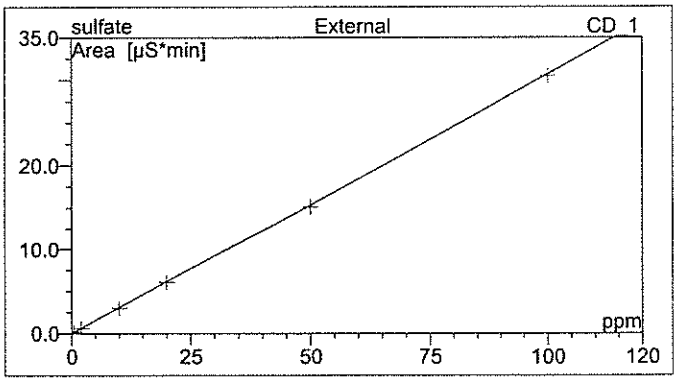


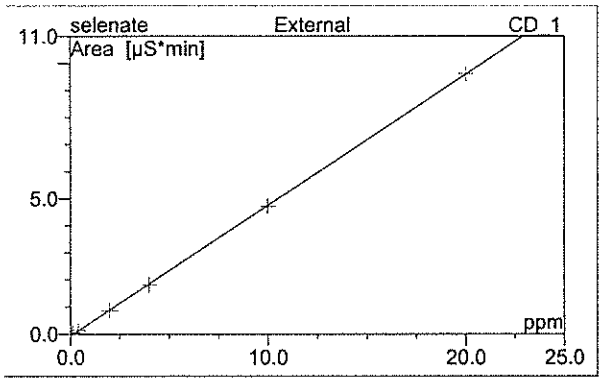


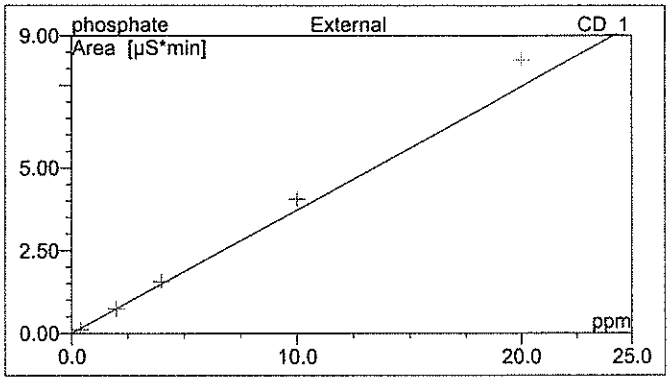










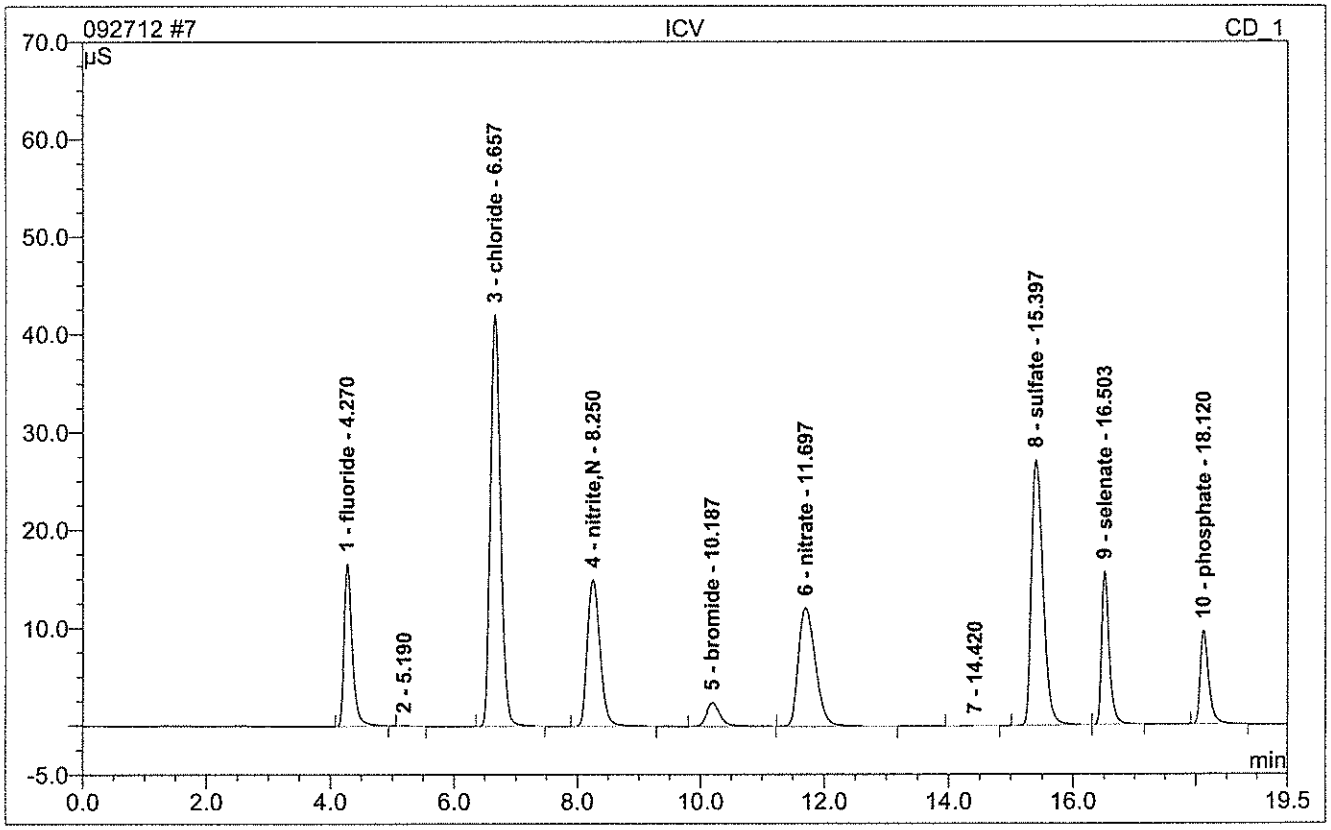


No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	4.30	fluoride	AvCF	6	99.626	0.0000	0.6078	0.000
3	6.68	chloride	AvCF	6	99.849	0.0000	0.3743	0.000
4	8.20	nitrite,N	AvCF	6	99.429	0.0000	0.8492	0.000
5	10.10	bromide	LOff	6	99.949	-0.0426	0.1777	0.000
6	11.45	nitrate	AvCF	6	99.024	0.0000	0.9595	0.000
8	15.13	sulfate	AvCF	6	99.984	0.0000	0.3069	0.000
9	16.42	selenate	LOff	6	99.989	-0.0790	0.4833	0.000
10	17.99	phosphate	AvCF	5	98.290	0.0000	0.3724	0.000
Average:					99.5174	-0.0152	0.5164	0.0000

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	RF-Value	Std.Dev.	RSD %
1	4.30	fluoride	AvCF	6	99.964	1.645	0.025	4.152
3	6.68	chloride	AvCF	6	99.998	2.672	0.011	2.806
4	8.20	nitrite,N	AvCF	6	99.875	1.178	0.091	10.772
5	10.10	bromide	LOff	6	99.974	5.627	0.035	3.345
6	11.45	nitrate	AvCF	6	99.997	1.042	0.087	9.056
8	15.13	sulfate	AvCF	6	99.999	3.258	0.017	5.615
9	16.42	selenate	LOff	6	99.994	2.069	0.044	1.541
10	17.99	phosphate	AvCF	5	99.998	2.685	0.052	13.992
Average:					99.9750	2.5220	0.0453	6.4100

7 ICV

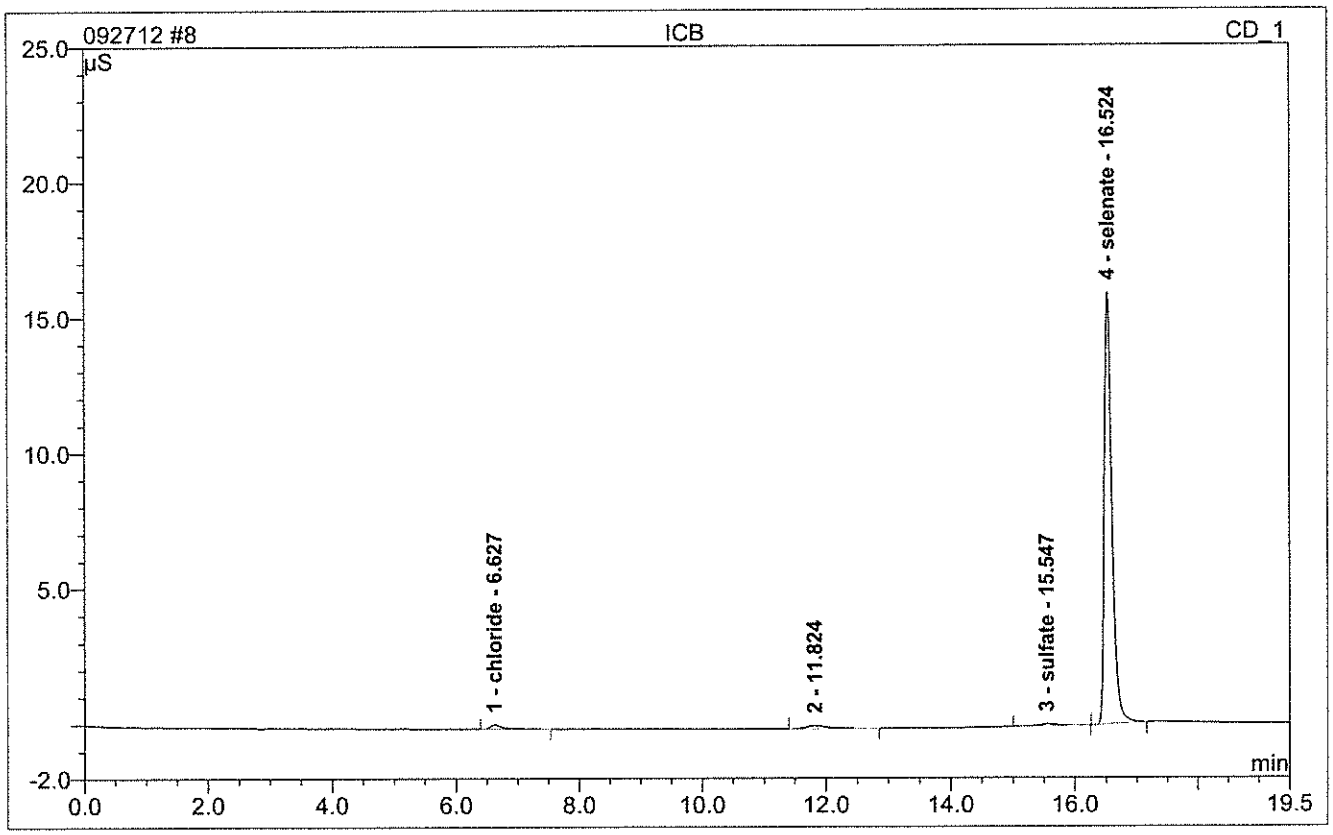
Sample Name:	**ICV**	*Injection Volume:*	**20.0**
Vial Number:	**57**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 20:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.27	fluoride	16.614	2.563	9.01	4.217	1.
3	6.66	chloride	42.107	8.051	28.31	21.509	1.
4	8.25	nitrite,N	14.980	3.596	12.64	4.234	1.
5	10.19	bromide	2.439	0.623	2.19	3.746	1.
6	11.70	nitrate	12.104	3.867	13.60	4.030	1.
8	15.40	sulfate	27.116	5.930	20.85	19.322	1.
9	16.50	selenate	15.644	2.258	7.94	4.836	1.
10	18.12	phosphate	9.494	1.528	5.37	4.103	1.
Total:			140.499	28.417	99.92	65.998	

8 ICB

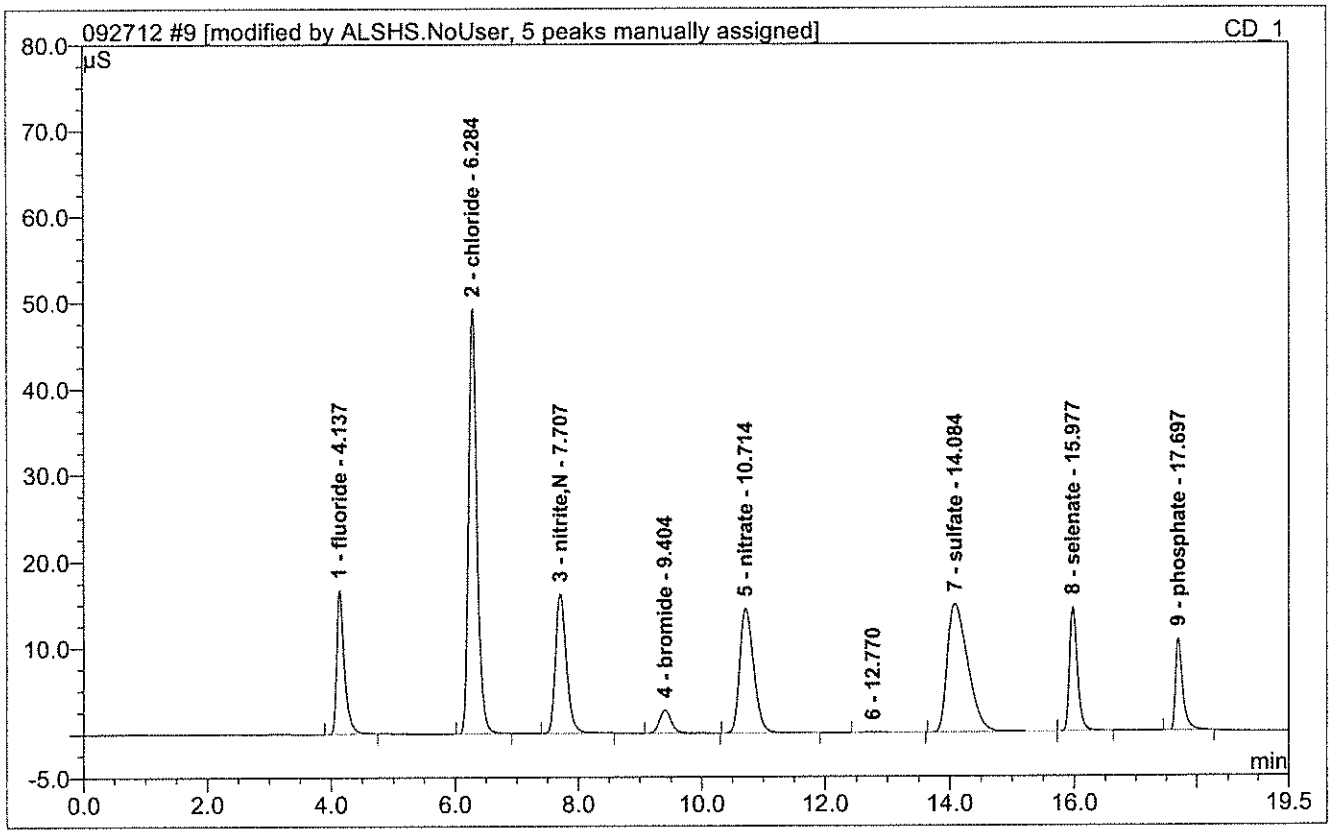
Sample Name:	**ICB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**8/16/2012 20:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	6.63	chloride	0.159	0.038	1.61	0.102	1.
3	15.55	sulfate	0.075	0.024	1.00	0.077	1.
4	16.52	selenate	15.910	2.268	95.60	4.856	1.
Total:			16.144	2.330	98.21	5.035	

9 CCV

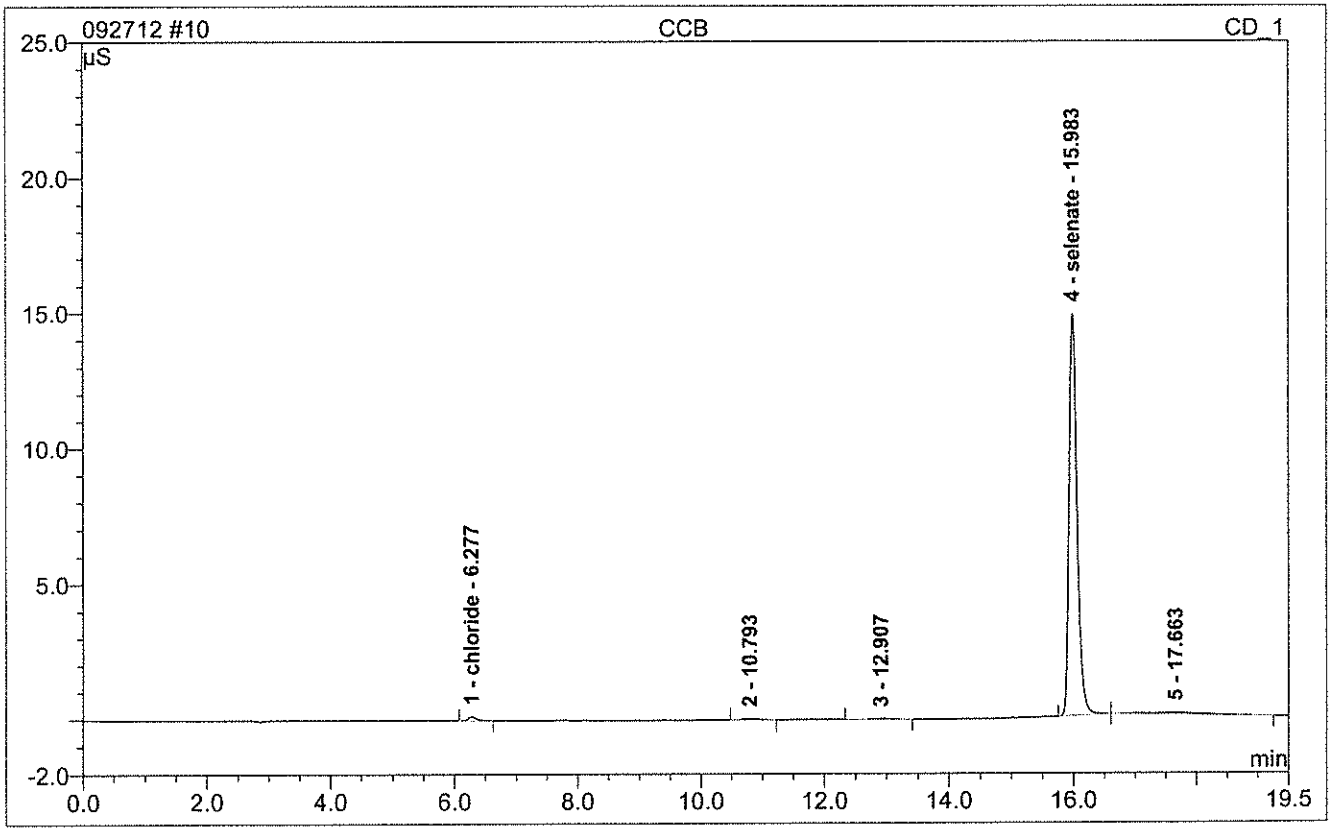
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 0:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.14	fluoride	16.677	2.348	8.66	3.863	1.
2	6.28	chloride	49.235	7.714	28.44	20.607	1.
3	7.71	nitrite,N	16.184	3.343	12.33	3.936	1.
4	9.40	bromide	2.713	0.624	2.30	3.751	1.
5	10.71	nitrate	14.433	3.789	13.97	3.950	1.
7	14.08	sulfate	14.868	5.695	21.00	18.556	1.
8	15.98	selenate	14.366	2.141	7.90	4.594	1.
9	17.70	phosphate	10.631	1.435	5.29	3.854	1.
Total:			139.107	27.089	99.89	63.111	

10 CCB

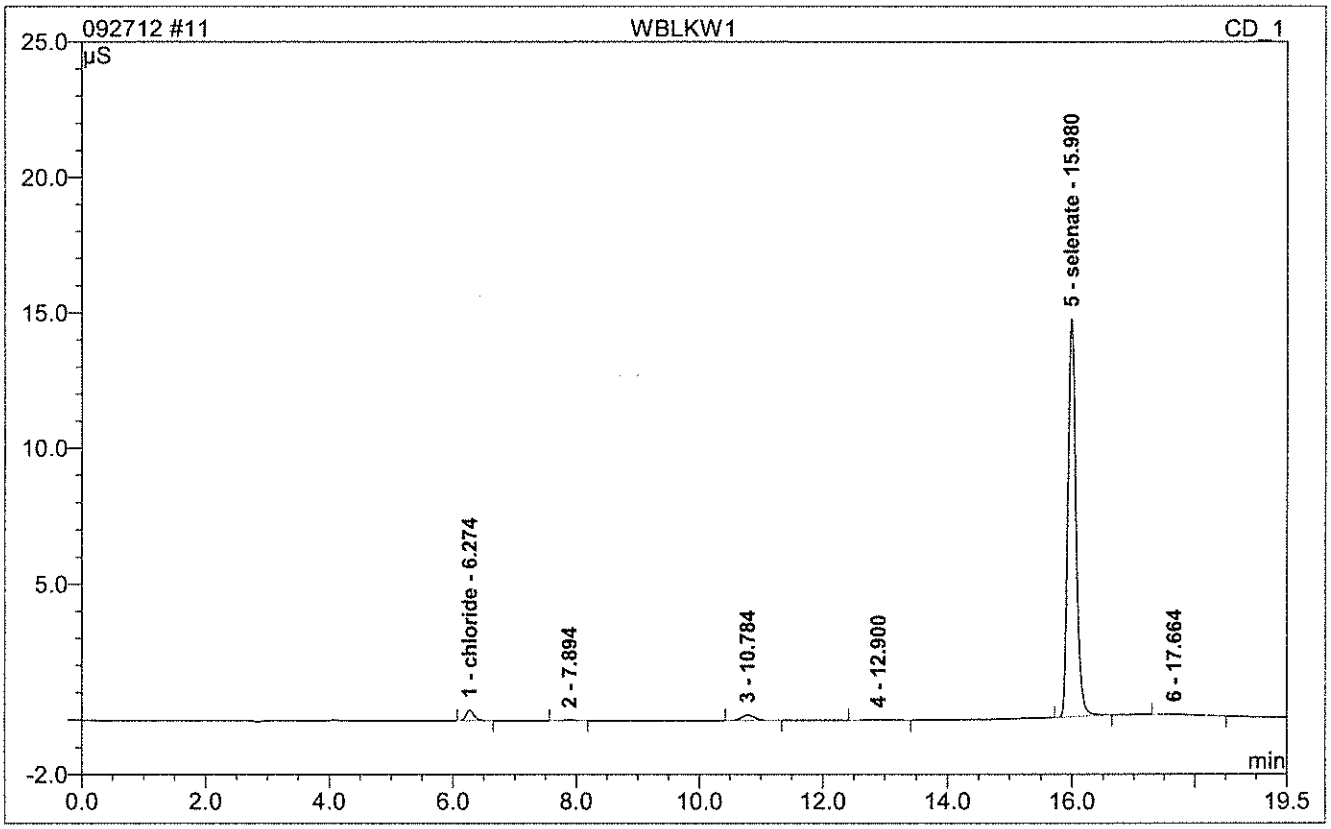
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 0:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	6.28	chloride	0.143	0.022	0.94	0.059	1.
4	15.98	selenate	14.804	2.226	95.04	4.770	1.
Total:			14.947	2.248	95.98	4.829	

11 WBLKW1

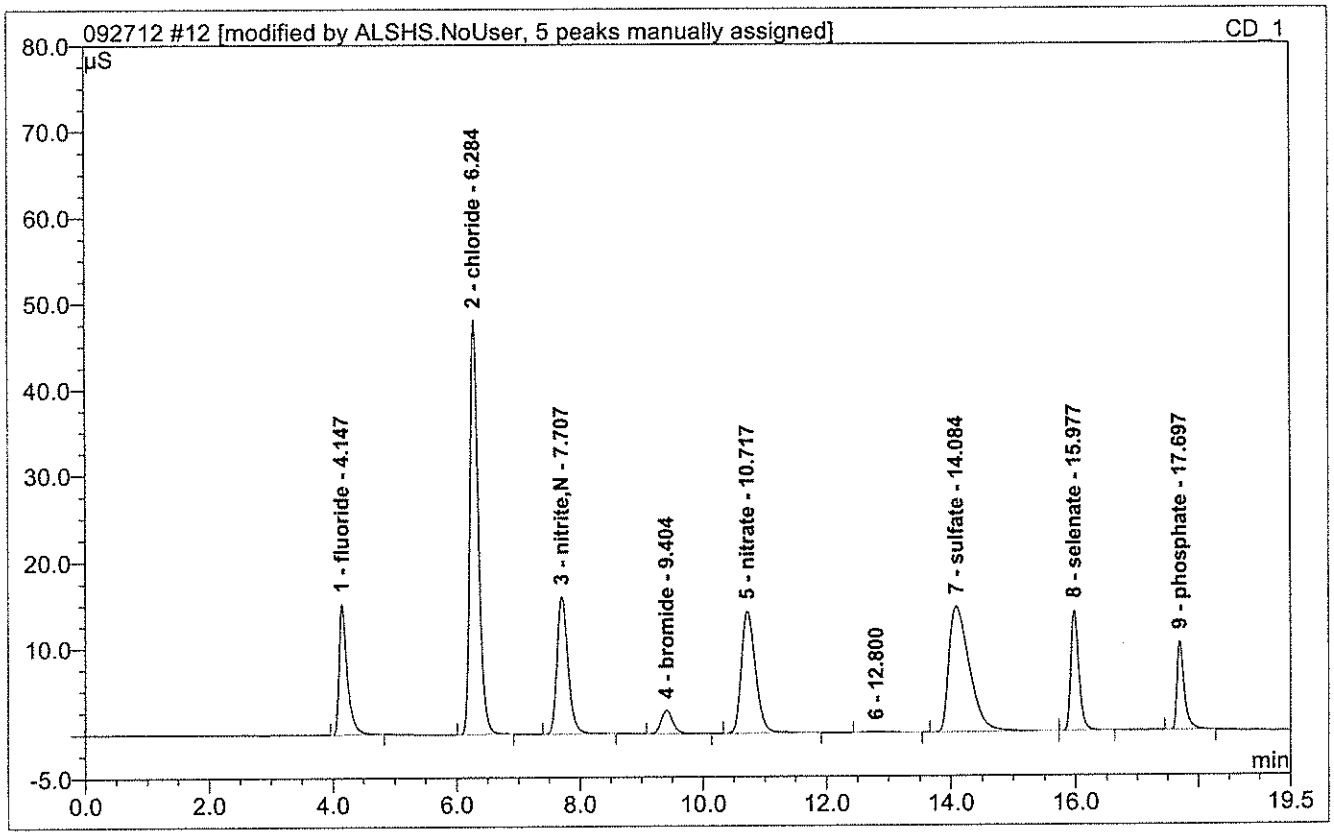
Sample Name:	**WBLKW1**	*Injection Volume:*	**20.0**
Vial Number:	**3**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 1:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	6.27	chloride	0.389	0.058	2.48	0.155	1.
5	15.98	selenate	14.667	2.208	94.19	4.733	1.
Total:			15.056	2.267	96.67	4.888	

12 WLCSW1

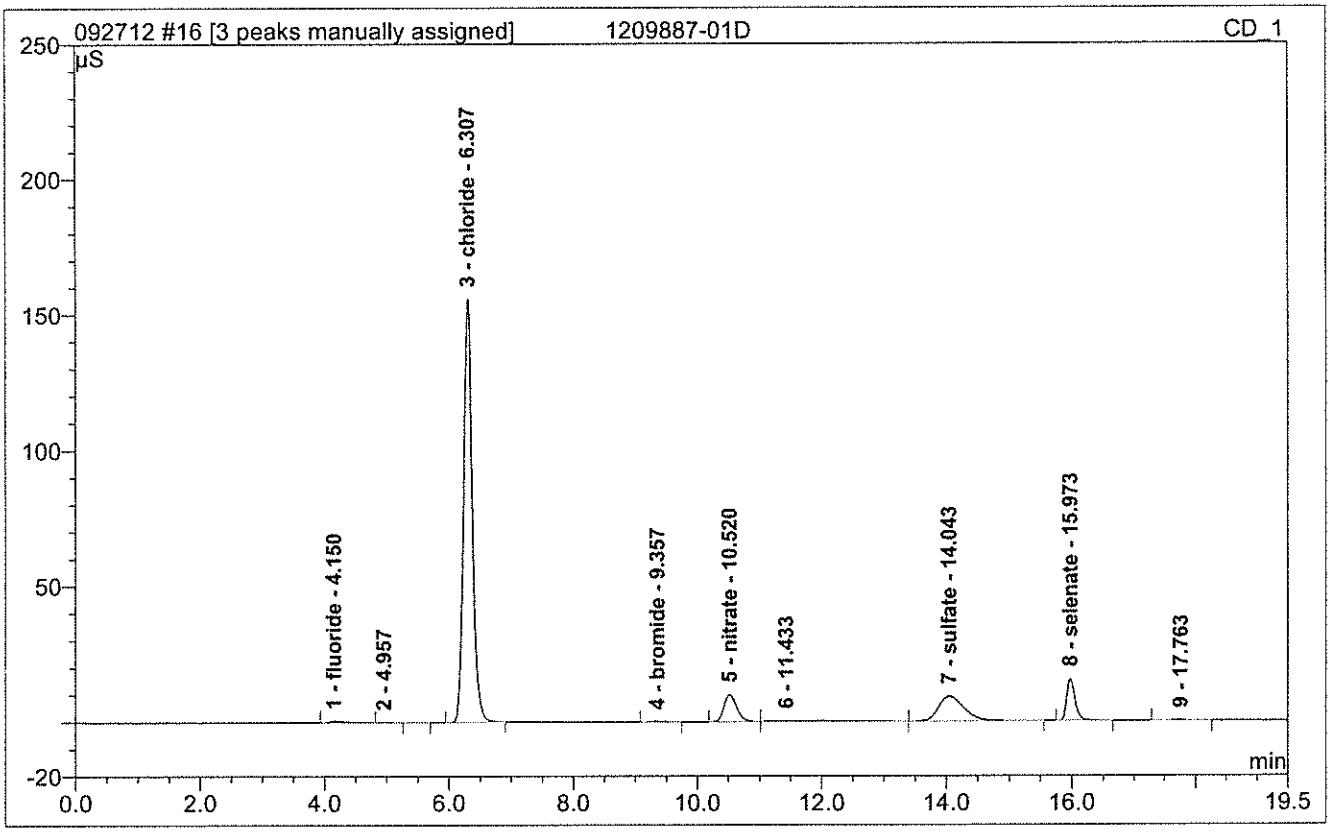
Sample Name:	**WLCSW1**	*Injection Volume:*	**20.0**
Vial Number:	**4**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 1:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	15.208	2.318	8.70	3.814	1.
2	6.28	chloride	48.035	7.555	28.37	20.184	1.
3	7.71	nitrite,N	15.933	3.296	12.38	3.882	1.
4	9.40	bromide	2.687	0.614	2.31	3.695	1.
5	10.72	nitrate	14.123	3.748	14.07	3.907	1.
7	14.08	sulfate	14.604	5.583	20.96	18.190	1.
8	15.98	selenate	13.966	2.100	7.89	4.509	1.
9	17.70	phosphate	10.275	1.387	5.21	3.724	1.
Total:			134.830	26.602	99.88	61.905	

16 1209887-01D

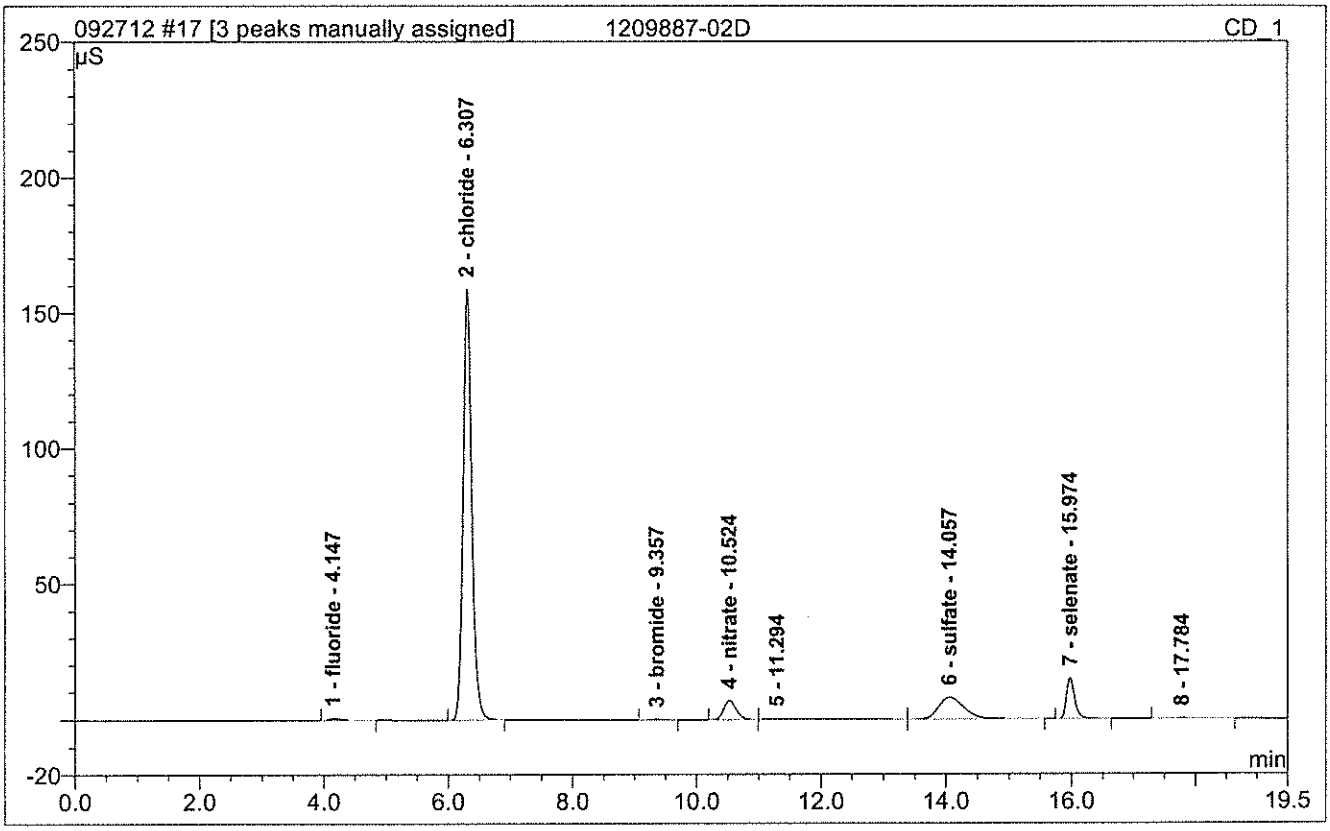
Sample Name:	**1209887-01D**	*Injection Volume:*	**20.0**
Vial Number:	**14**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 3:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	0.503	0.141	0.41	0.233	1.
3	6.31	chloride	155.919	25.055	72.64	66.934	1.
4	9.36	bromide	0.155	0.031	0.09	0.415	1.
5	10.52	nitrate	9.922	2.310	6.70	2.408	1.
7	14.04	sulfate	9.052	4.279	12.41	13.942	1.
8	15.97	selenate	15.173	2.335	6.77	4.995	1.
Total:			190.723	34.152	99.02	88.926	

17 1209887-02D

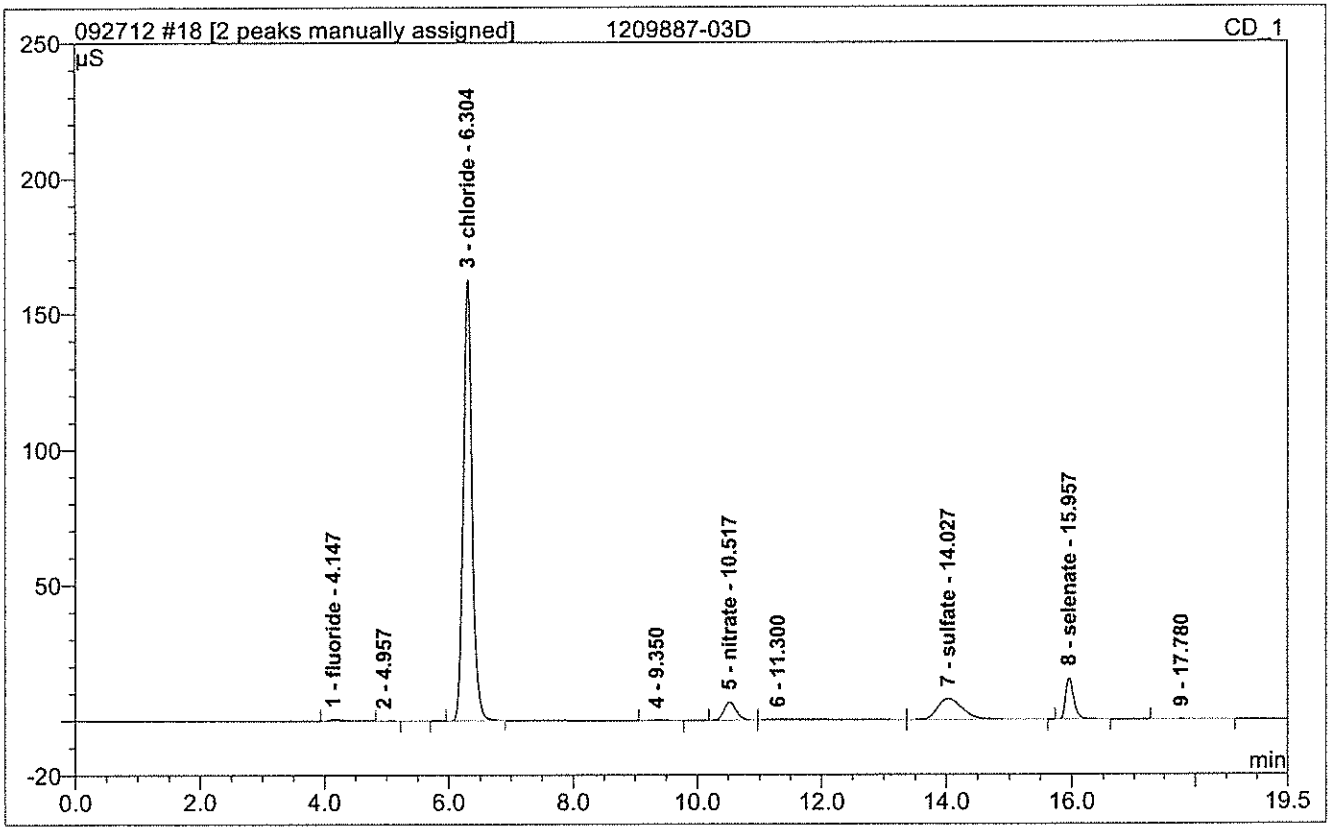
Sample Name:	**1209887-02D**	*Injection Volume:*	**20.0**
Vial Number:	**15**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 3:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	0.569	0.139	0.41	0.228	1.
2	6.31	chloride	158.753	25.523	75.86	68.186	1.
3	9.36	bromide	0.143	0.029	0.08	0.401	1.
4	10.52	nitrate	6.917	1.580	4.70	1.647	1.
6	14.06	sulfate	7.923	3.741	11.12	12.189	1.
7	15.97	selenate	15.028	2.287	6.80	4.895	1.
Total:			189.333	33.299	98.97	87.546	

18 1209887-03D

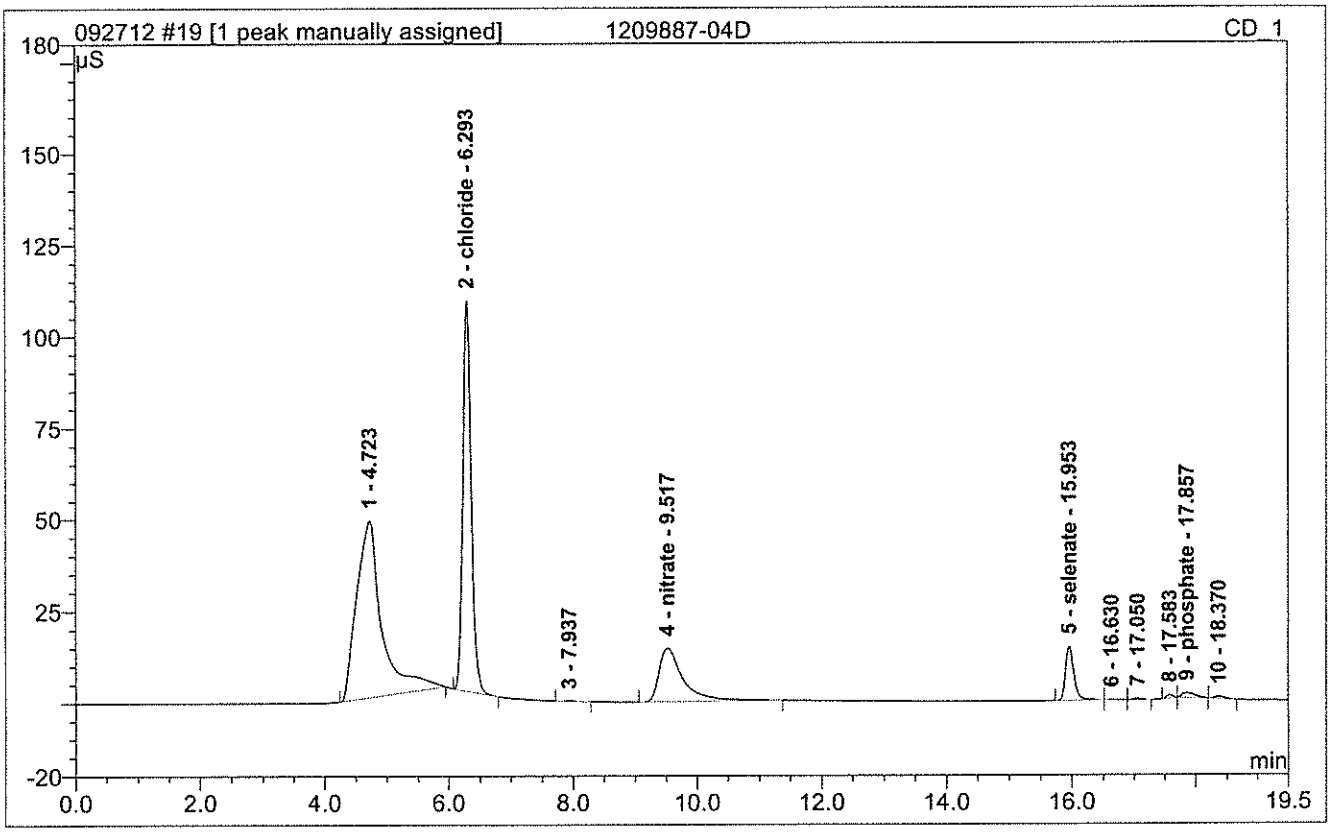
Sample Name:	**1209887-03D**	*Injection Volume:*	**20.0**
Vial Number:	**16**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 3:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	0.553	0.153	0.45	0.253	1.
3	6.30	chloride	162.471	26.105	76.59	69.740	1.
5	10.52	nitrate	6.643	1.513	4.44	1.577	1.
7	14.03	sulfate	7.738	3.615	10.61	11.777	1.
8	15.96	selenate	15.183	2.316	6.79	4.955	1.
Total:			192.589	33.702	98.88	88.302	

19 1209887-04D

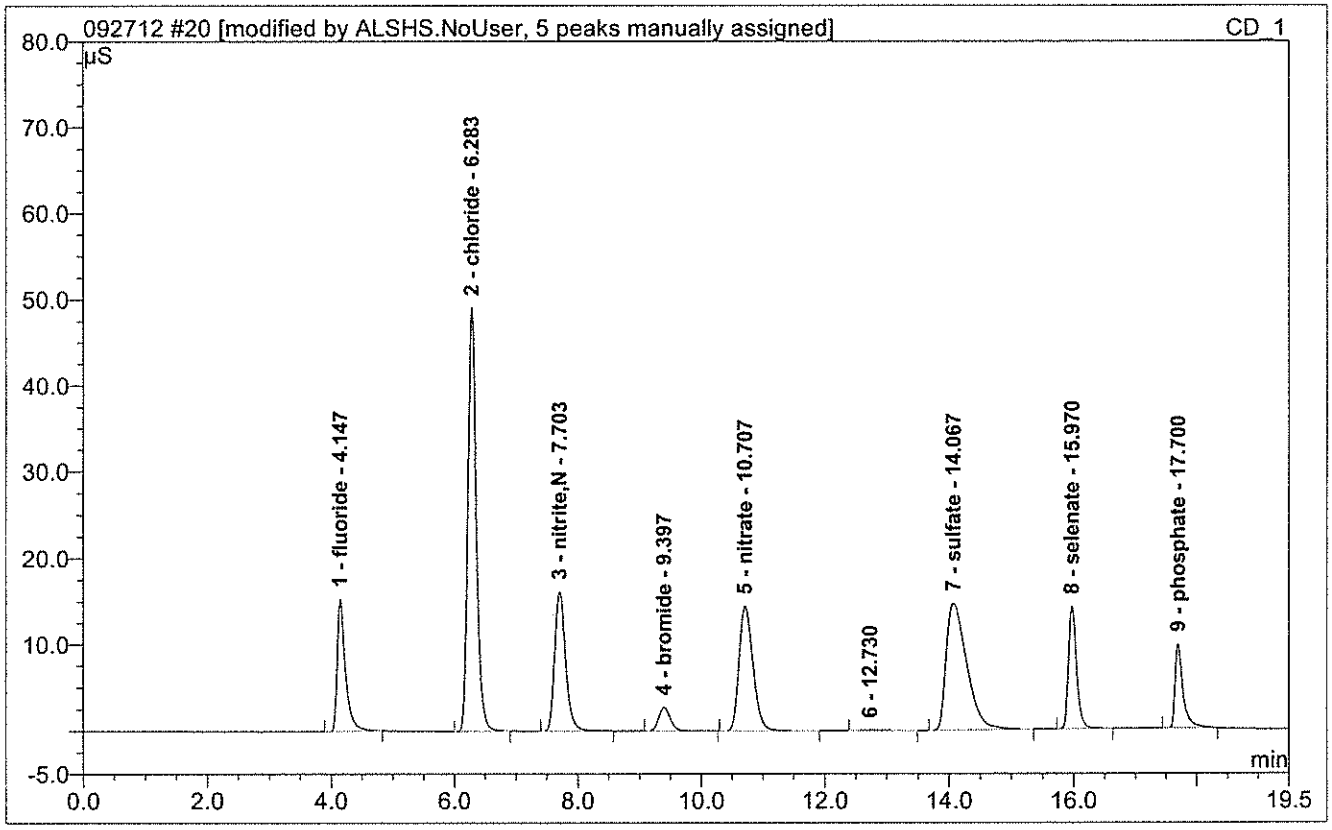
Sample Name:	**1209887-04D**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 4:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
2	6.29	chloride	106.659	16.471	33.85	44.002	1.
4	9.52	nitrate	14.655	6.569	13.50	6.847	1.
5	15.95	selenate	14.680	2.293	4.71	4.908	1.
9	17.86	phosphate	1.343	0.323	0.66	0.867	1.
Total:			137.337	25.656	52.72	56.623	

20 CCV

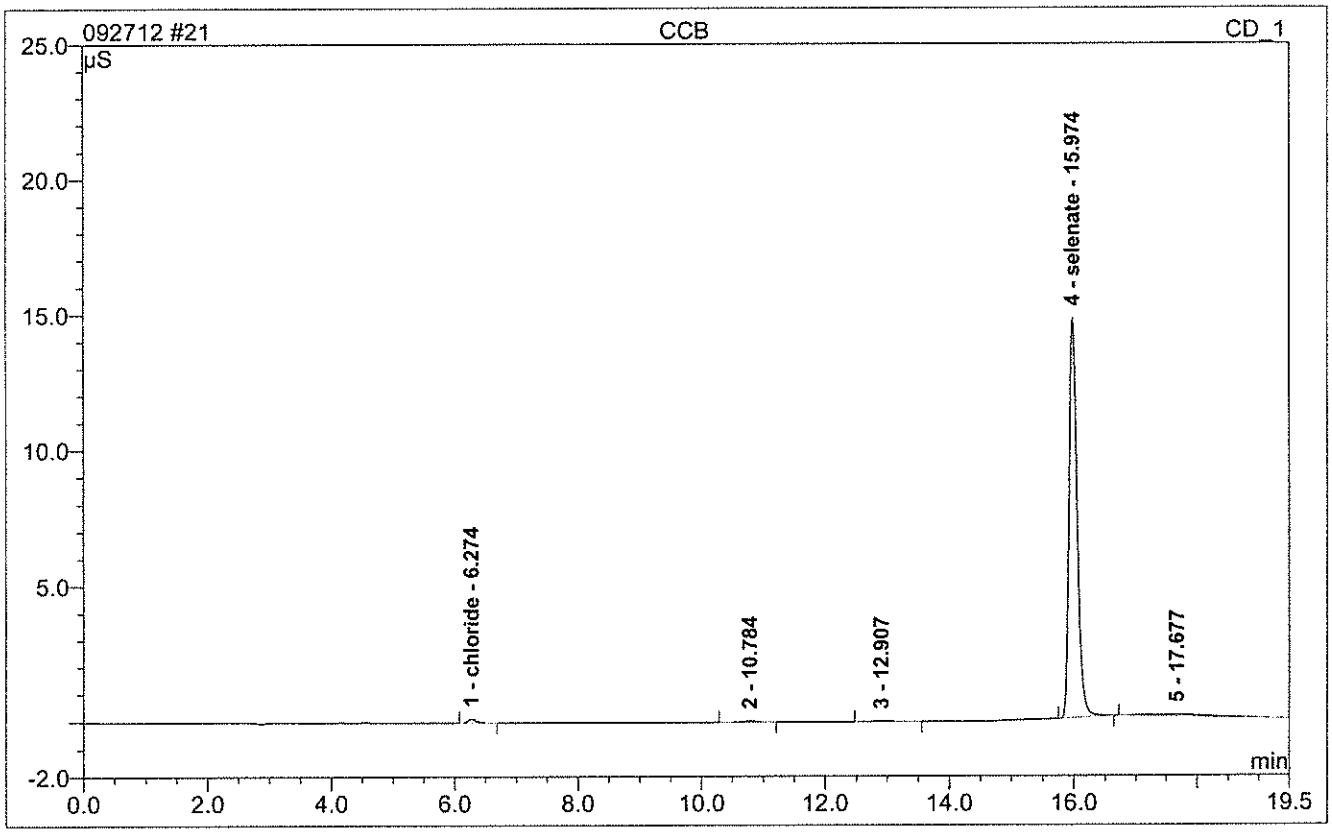
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 4:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	15.333	2.368	8.74	3.896	1.
2	6.28	chloride	49.093	7.723	28.50	20.631	1.
3	7.70	nitrite,N	16.164	3.347	12.35	3.941	1.
4	9.40	bromide	2.720	0.602	2.22	3.628	1.
5	10.71	nitrate	14.439	3.793	14.00	3.954	1.
7	14.07	sulfate	14.716	5.628	20.77	18.338	1.
8	15.97	selenate	14.178	2.136	7.88	4.583	1.
9	17.70	phosphate	9.742	1.462	5.40	3.927	1.
Total:			136.385	27.060	99.88	62.899	

21 CCB

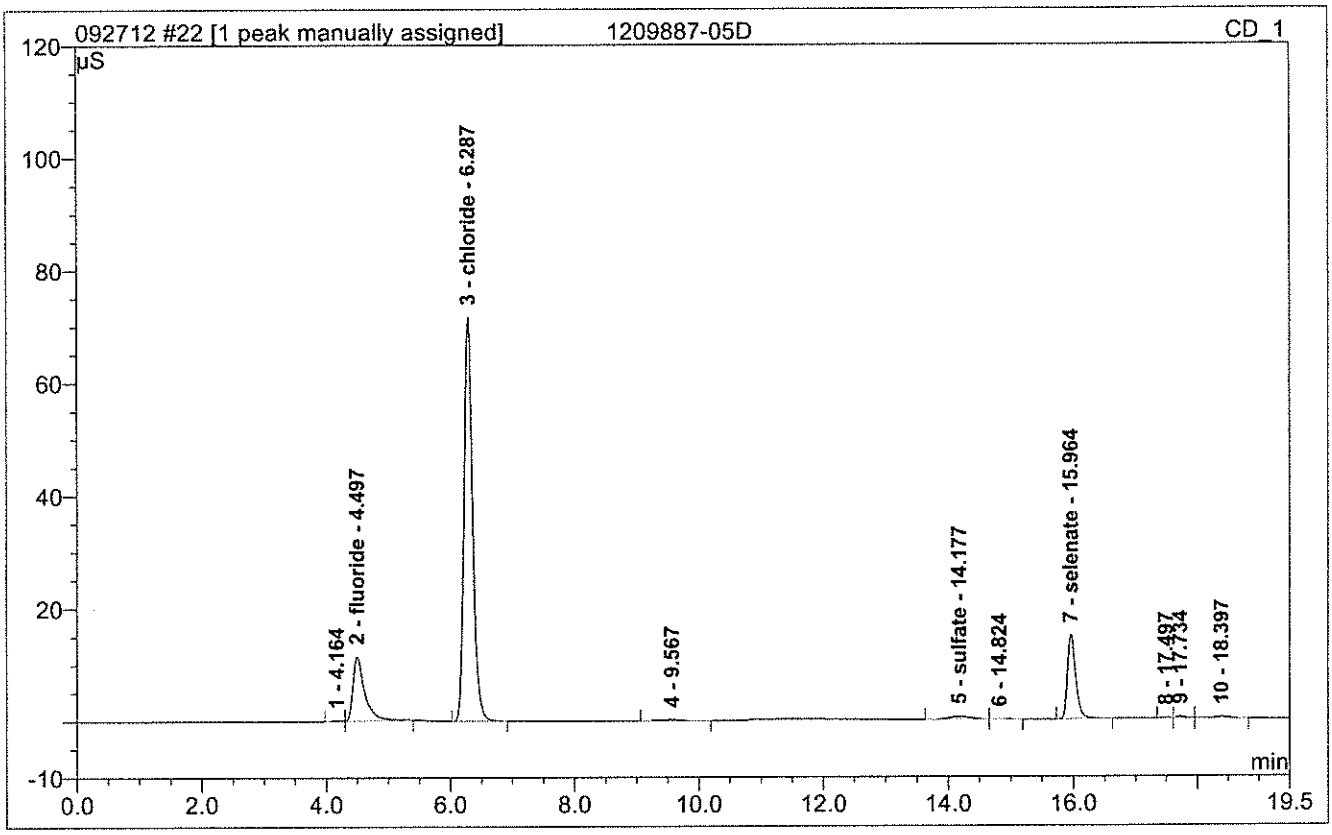
Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 4:48**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	6.27	chloride	0.143	0.022	0.95	0.059	1.
4	15.97	selenate	14.748	2.219	94.80	4.755	1.
Total:			14.891	2.241	95.75	4.814	

22 1209887-05D

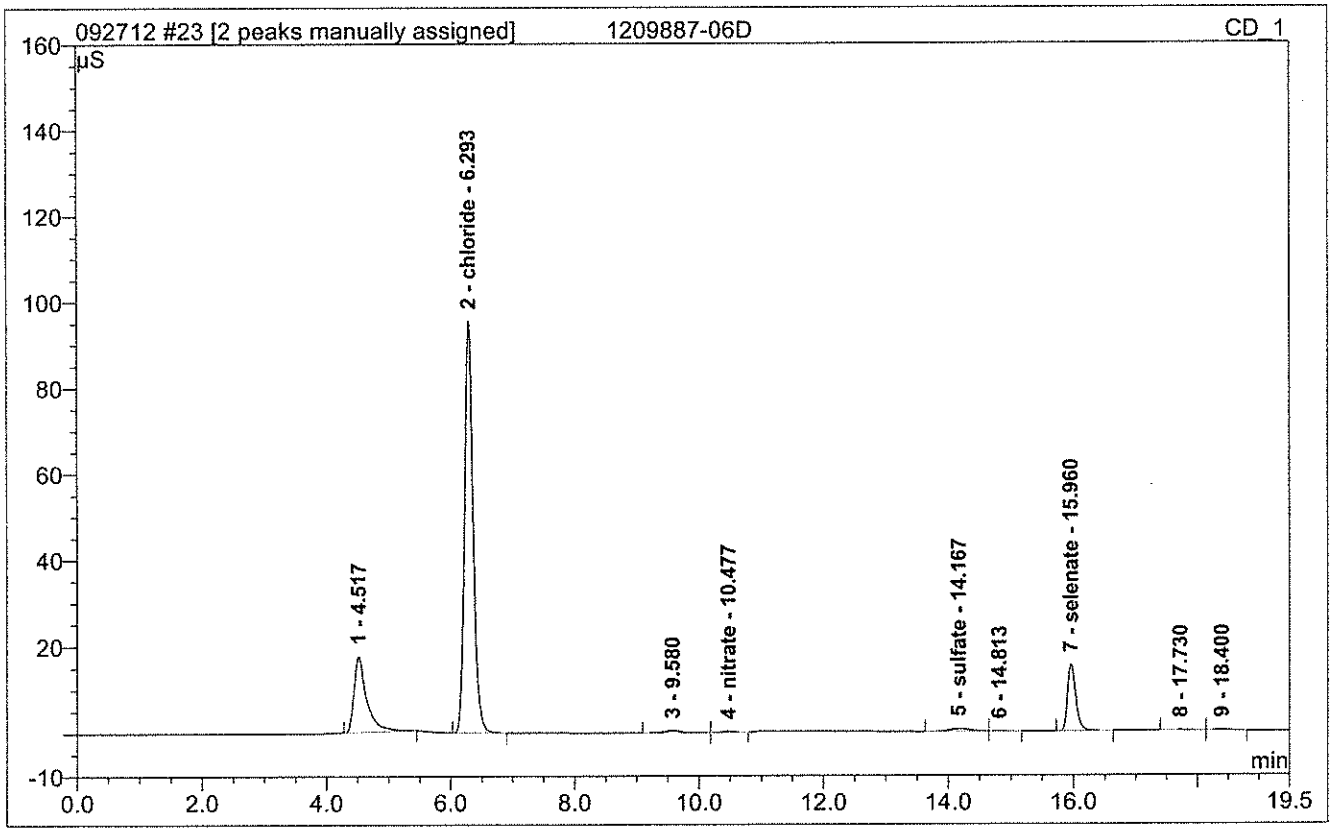
Sample Name:	**1209887-05D**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 5:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
2	4.50	fluoride	11.484	2.510	15.03	4.130	1.
3	6.29	chloride	71.646	11.480	68.73	30.669	1.
5	14.18	sulfate	0.517	0.206	1.23	0.670	1.
7	15.96	selenate	14.826	2.259	13.52	4.836	1.
Total:			98.473	16.454	98.52	40.305	

23 1209887-06D

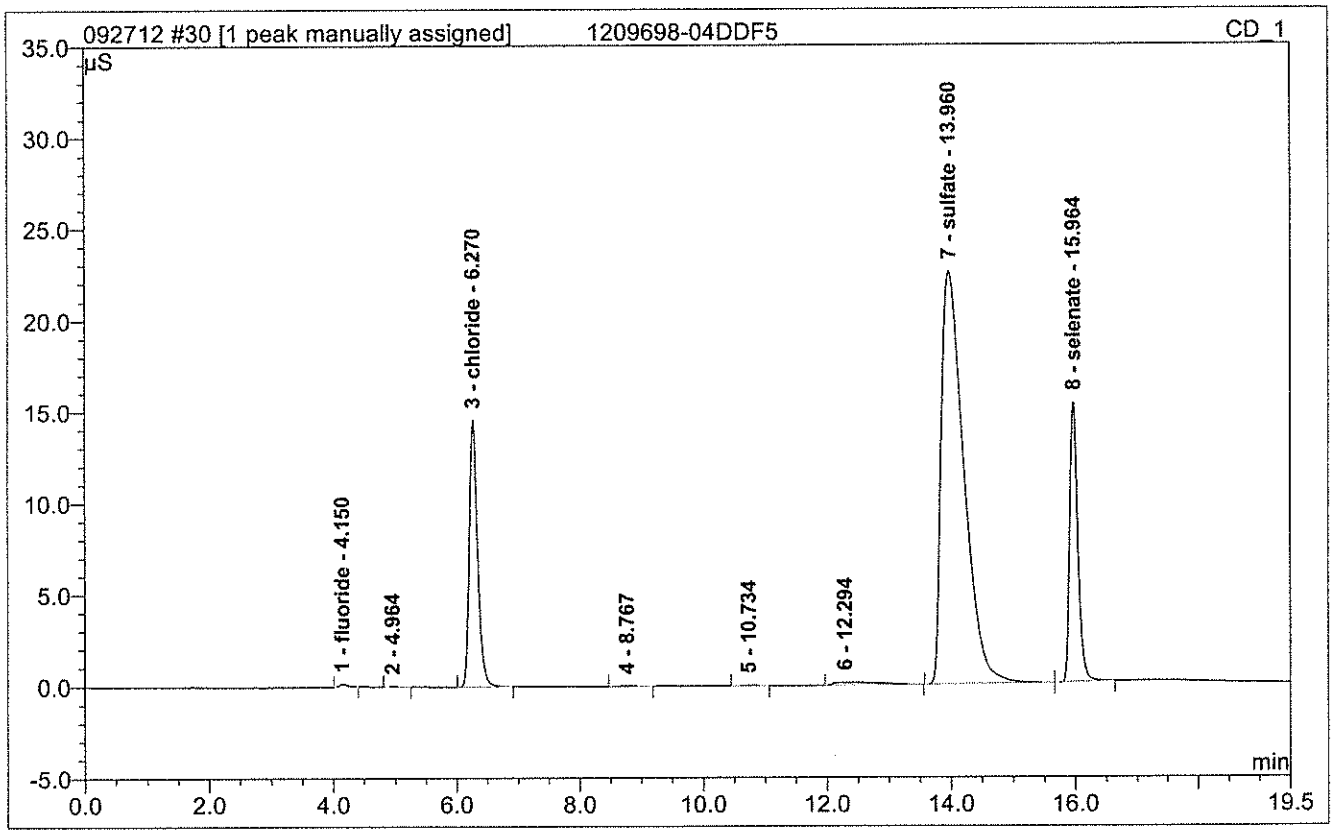
Sample Name:	**1209887-06D**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 5:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
2	6.29	chloride	95.452	15.179	68.33	40.550	1.
4	10.48	nitrate	0.312	0.065	0.29	0.068	1.
5	14.17	sulfate	0.615	0.236	1.06	0.769	1.
7	15.96	selenate	15.303	2.331	10.49	4.987	1.
Total:			111.682	17.811	80.17	46.373	

30 1209698-04DDF5

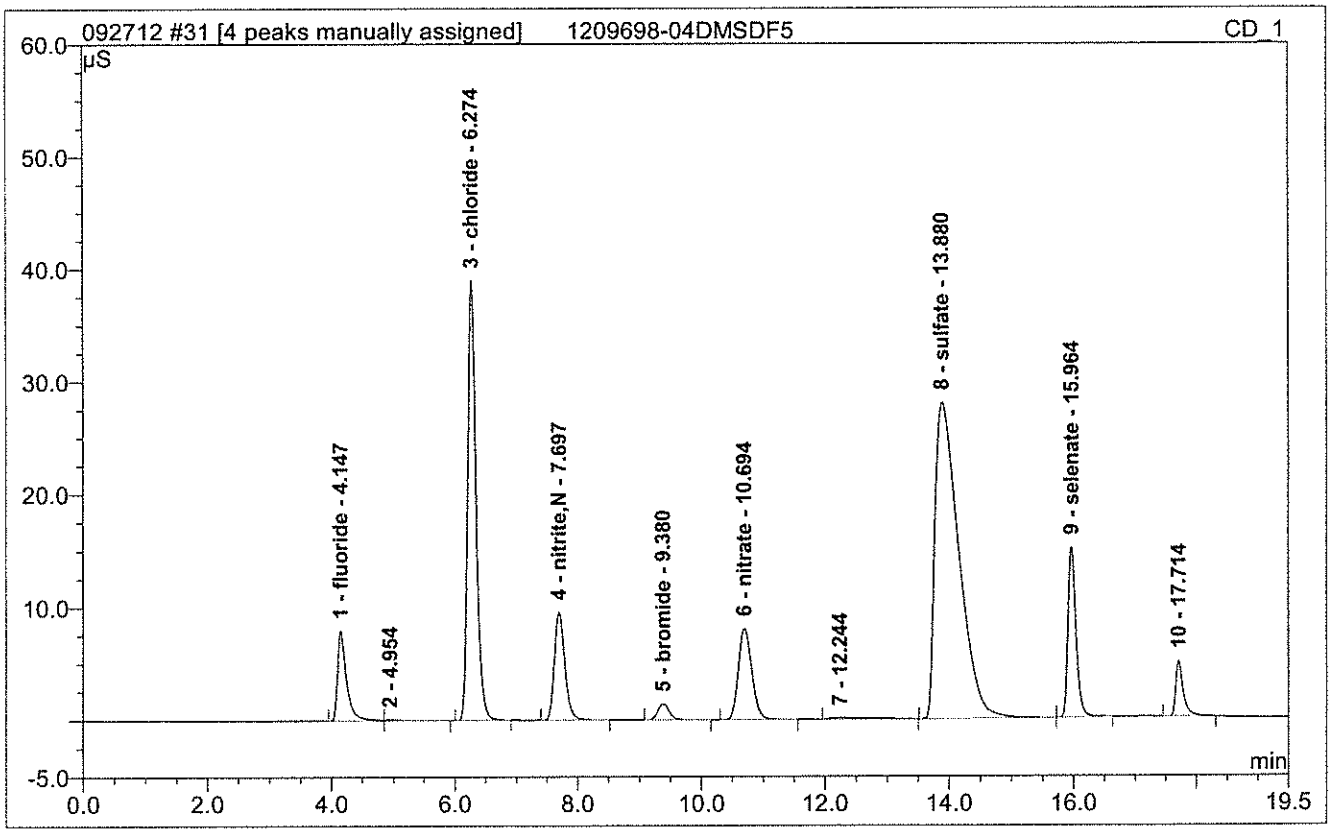
Sample Name:	**1209698-04DDF5**	*Injection Volume:*	**20.0**
Vial Number:	**26**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**5.**
Recording Time:	**9/27/2012 7:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	0.140	0.023	0.16	0.191	5.
3	6.27	chloride	14.551	2.258	15.82	30.164	5.
7	13.96	sulfate	22.528	9.538	66.80	155.384	5.
8	15.96	selenate	15.248	2.309	16.17	24.702	5.
Total:			52.466	14.128	98.96	210.441	

31 1209698-04DMSDF5

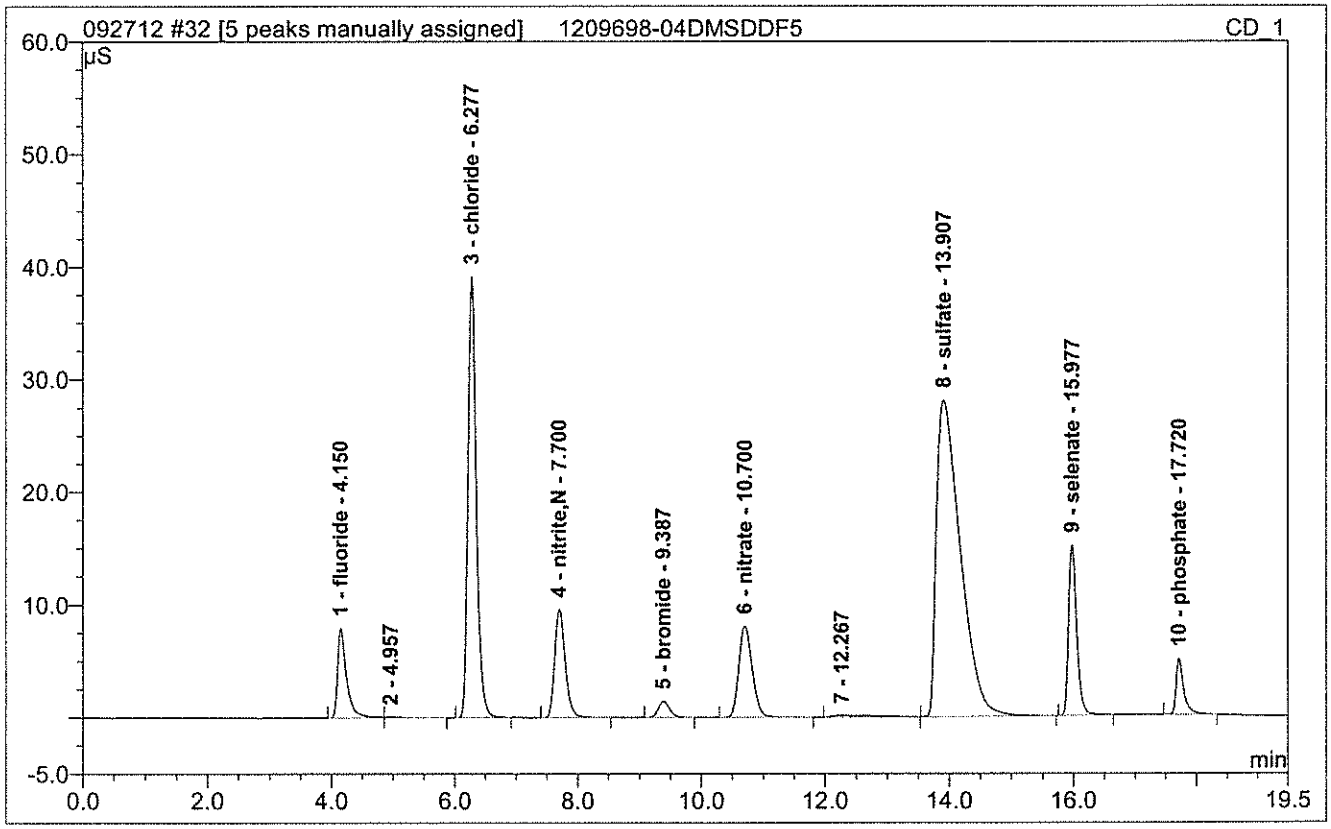
Sample Name:	**1209698-04DMSDF5**	*Injection Volume:*	**20.0**
Vial Number:	**27**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**5.**
Recording Time:	**9/27/2012 8:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	7.993	1.335	4.88	10.979	5.
3	6.27	chloride	39.018	6.120	22.40	81.753	5.
4	7.70	nitrite,N	9.585	1.899	6.95	11.179	5.
5	9.38	bromide	1.431	0.305	1.12	9.774	5.
6	10.69	nitrate	8.092	2.031	7.43	10.582	5.
8	13.88	sulfate	28.066	12.505	45.76	203.721	5.
9	15.96	selenate	15.090	2.290	8.38	24.506	5.
Total:			109.275	26.484	96.91	352.495	

32 1209698-04DMSDDF5

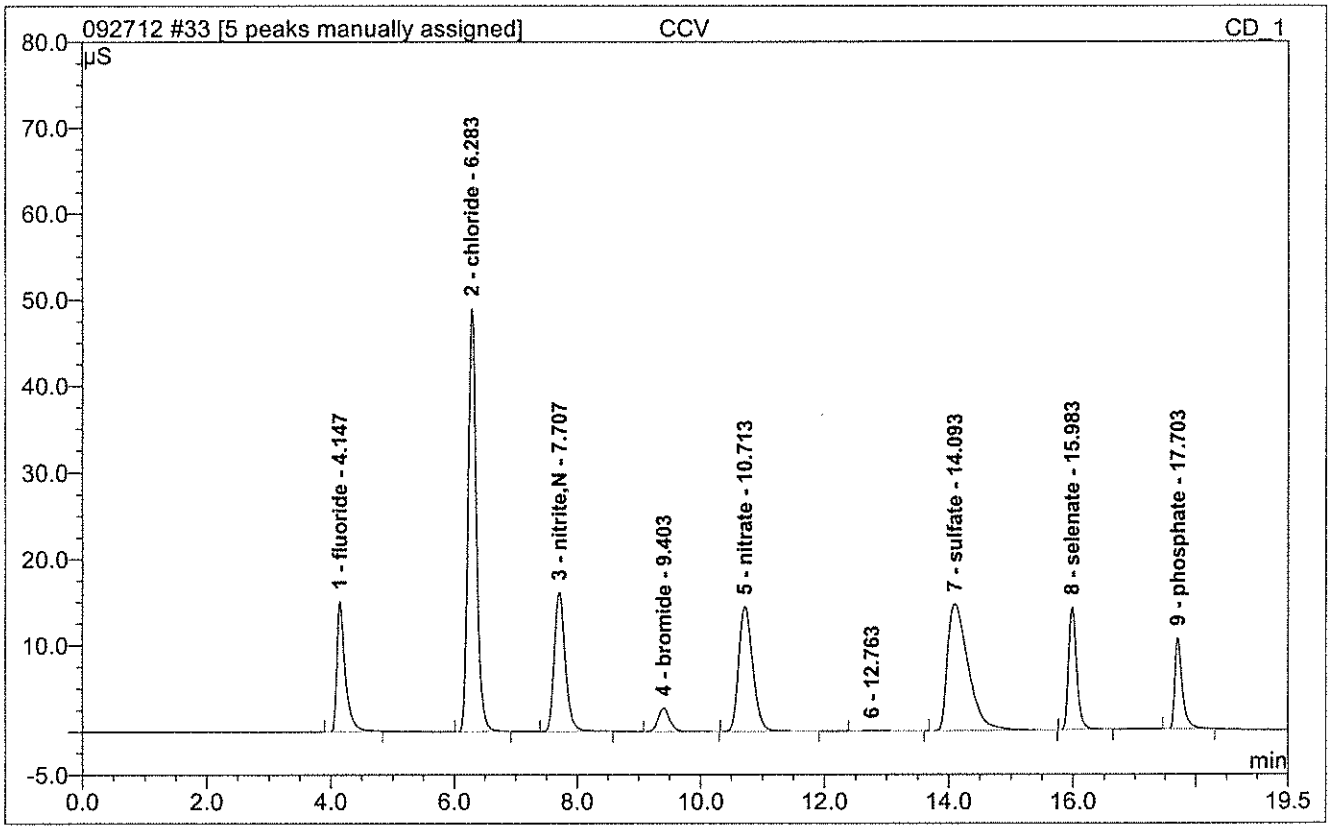
Sample Name:	**1209698-04DMSDDF5**	*Injection Volume:*	**20.0**
Vial Number:	**28**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**5.**
Recording Time:	**9/27/2012 8:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	7.972	1.337	4.88	10.999	5.
3	6.28	chloride	39.154	6.137	22.41	81.972	5.
4	7.70	nitrite,N	9.592	1.901	6.94	11.194	5.
5	9.39	bromide	1.433	0.303	1.11	9.731	5.
6	10.70	nitrate	8.104	2.039	7.45	10.628	5.
8	13.91	sulfate	28.034	12.521	45.72	203.978	5.
9	15.98	selenate	15.112	2.291	8.37	24.521	5.
10	17.72	phosphate	4.959	0.712	2.60	9.561	5.
Total:			114.360	27.242	99.47	362.585	

33 CCV

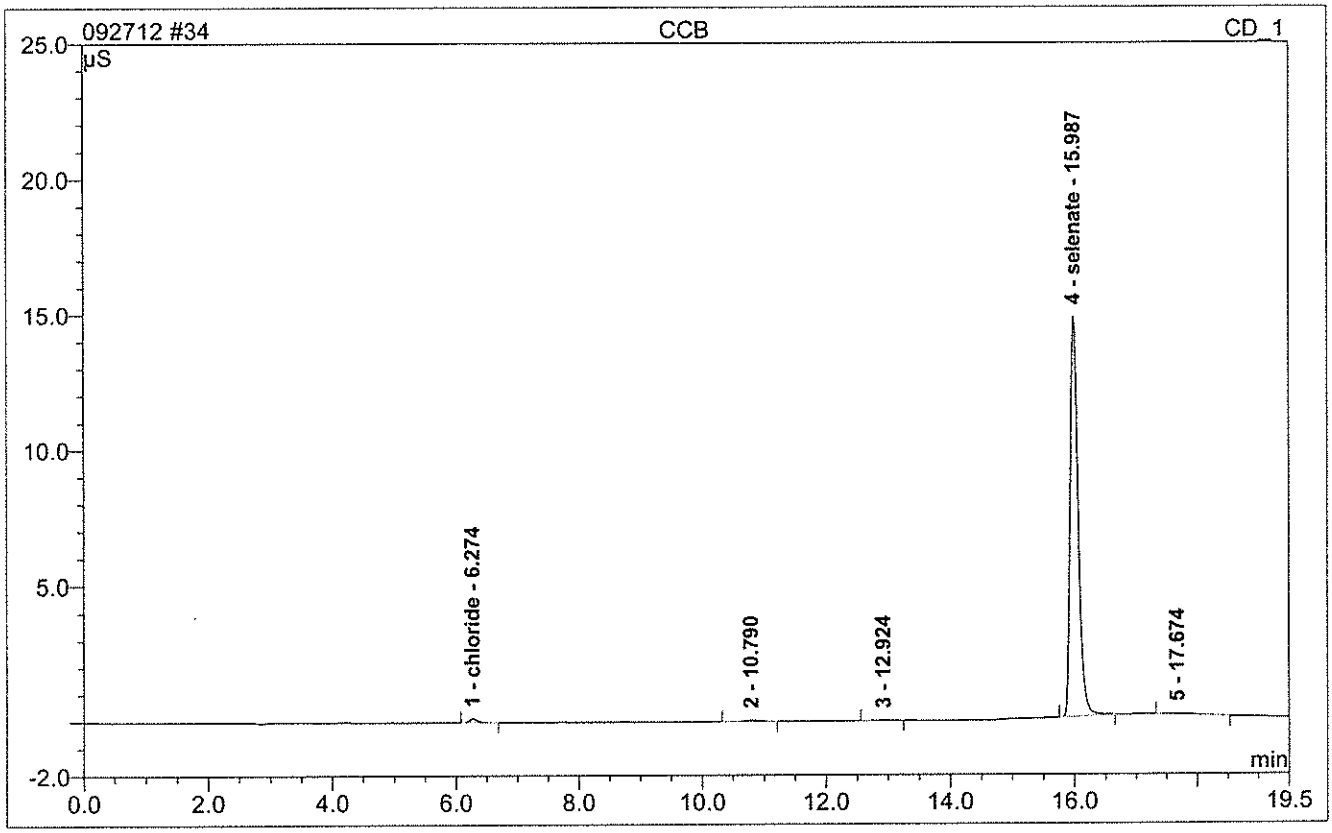
Sample Name:	**CCV**	*Injection Volume:*	**20.0**
Vial Number:	**1**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 9:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	4.15	fluoride	15.129	2.358	8.70	3.879	1.
2	6.28	chloride	49.053	7.723	28.49	20.632	1.
3	7.71	nitrite,N	16.148	3.347	12.35	3.942	1.
4	9.40	bromide	2.699	0.590	2.18	3.559	1.
5	10.71	nitrate	14.419	3.794	13.99	3.954	1.
7	14.09	sulfate	14.709	5.670	20.91	18.473	1.
8	15.98	selenate	14.209	2.140	7.89	4.592	1.
9	17.70	phosphate	10.521	1.457	5.38	3.913	1.
Total:			136.887	27.078	99.88	62.943	

34 CCB

Sample Name:	**CCB**	*Injection Volume:*	**20.0**
Vial Number:	**2**	*Channel:*	**CD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**anions1**	*Bandwidth:*	**n.a.**
Quantif. Method:	**081612**	*Dilution Factor:*	**1.**
Recording Time:	**9/27/2012 9:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**19.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Dil.Fac.
1	6.27	chloride	0.138	0.021	0.94	0.057	1.
4	15.99	selenate	14.737	2.215	97.66	4.746	1.
Total:			14.875	2.236	98.61	4.803	

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Weight	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
1	STD1	1.0000	Standard	51	20.0	1.00	1.00	1.0000	081612
2	STD2	1.0000	Standard	52	20.0	1.00	1.00	1.0000	081612
3	STD3	1.0000	Standard	53	20.0	1.00	1.00	1.0000	081612
4	STD4	1.0000	Standard	54	20.0	1.00	1.00	1.0000	081612
5	STD5	1.0000	Standard	55	20.0	1.00	1.00	1.0000	081612
6	STD6	1.0000	Standard	56	20.0	1.00	1.00	1.0000	081612
7	ICV	1.0000	Unknown	57	20.0	1.00	1.00	1.0000	081612
8	ICB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
9	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
10	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
11	WBLKW1	1.0000	Unknown	3	20.0	1.00	1.00	1.0000	081612
12	WLCSW1	1.0000	Unknown	4	20.0	1.00	1.00	1.0000	081612
13	1209836-01IDF5	1.0000	Unknown	11	20.0	1.00	1.00	5.0000	081612
14	1209878-01F	1.0000	Unknown	12	20.0	1.00	1.00	1.0000	081612
15	1209878-02F	1.0000	Unknown	13	20.0	1.00	1.00	1.0000	081612
16	1209887-01D	1.0000	Unknown	14	20.0	1.00	1.00	1.0000	081612
17	1209887-02D	1.0000	Unknown	15	20.0	1.00	1.00	1.0000	081612
18	1209887-03D	1.0000	Unknown	16	20.0	1.00	1.00	1.0000	081612
19	1209887-04D	1.0000	Unknown	17	20.0	1.00	1.00	1.0000	081612
20	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
21	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
22	1209887-05D	1.0000	Unknown	18	20.0	1.00	1.00	1.0000	081612
23	1209887-06D	1.0000	Unknown	19	20.0	1.00	1.00	1.0000	081612
24	1209664-01DDF5	1.0000	Unknown	20	20.0	1.00	1.00	5.0000	081612
25	1209664-02DDF5	1.0000	Unknown	21	20.0	1.00	1.00	5.0000	081612
26	1209664-03DDF5	1.0000	Unknown	22	20.0	1.00	1.00	5.0000	081612
27	1209664-04DDF5	1.0000	Unknown	23	20.0	1.00	1.00	5.0000	081612
28	1209664-05DDF5	1.0000	Unknown	24	20.0	1.00	1.00	5.0000	081612
29	1209698-03DDF5	1.0000	Unknown	25	20.0	1.00	1.00	5.0000	081612
30	1209698-04DDF5	1.0000	Unknown	26	20.0	1.00	1.00	5.0000	081612
31	1209698-04DMSDF5	1.0000	Unknown	27	20.0	1.00	1.00	5.0000	081612
32	1209698-04DMSDDF5	1.0000	Unknown	28	20.0	1.00	1.00	5.0000	081612
33	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
34	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
35	1209698-06DDF5	1.0000	Unknown	29	20.0	1.00	1.00	5.0000	081612
36	1209698-07DDF5	1.0000	Unknown	30	20.0	1.00	1.00	5.0000	081612
37	1209698-09DDF5	1.0000	Unknown	31	20.0	1.00	1.00	5.0000	081612
38	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
39	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
40	WBLKW2	1.0000	Unknown	3	20.0	1.00	1.00	1.0000	081612
41	WLCSW2	1.0000	Unknown	4	20.0	1.00	1.00	1.0000	081612
42	1209927-01BDF50	1.0000	Unknown	41	20.0	1.00	1.00	50.0000	081612

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Status	Inj. Date/Time	Program	Comment
1	STD1	Finished	8/16/2012 6:09:41 PM	anions1	
2	STD2	Finished	8/16/2012 6:30:58 PM	anions1	
3	STD3	Finished	8/16/2012 6:52:14 PM	anions1	
4	STD4	Finished	8/16/2012 7:13:31 PM	anions1	
5	STD5	Finished	8/16/2012 7:34:47 PM	anions1	
6	STD6	Finished	8/16/2012 7:56:04 PM	anions1	
7	ICV	Finished	8/16/2012 8:17:21 PM	anions1	
8	ICB	Finished	8/16/2012 8:59:54 PM	anions1	
9	CCV	Finished	9/27/2012 12:32:47 AM	anions1	
10	CCB	Finished	9/27/2012 12:54:03 AM	anions1	
11	WBLKW1	Finished	9/27/2012 1:15:19 AM	anions1	
12	WLCSW1	Finished	9/27/2012 1:36:36 AM	anions1	
13	1209836-01IDF5	Finished	9/27/2012 1:57:53 AM	anions1	
14	1209878-01F	Finished	9/27/2012 2:19:09 AM	anions1	
15	1209878-02F	Finished	9/27/2012 2:40:26 AM	anions1	
16	1209887-01D	Finished	9/27/2012 3:01:42 AM	anions1	
17	1209887-02D	Finished	9/27/2012 3:22:59 AM	anions1	
18	1209887-03D	Finished	9/27/2012 3:44:16 AM	anions1	
19	1209887-04D	Finished	9/27/2012 4:05:32 AM	anions1	
20	CCV	Finished	9/27/2012 4:26:49 AM	anions1	
21	CCB	Finished	9/27/2012 4:48:05 AM	anions1	
22	1209887-05D	Finished	9/27/2012 5:09:21 AM	anions1	
23	1209887-06D	Finished	9/27/2012 5:30:38 AM	anions1	
24	1209664-01DDF5	Finished	9/27/2012 5:51:55 AM	anions1	
25	1209664-02DDF5	Finished	9/27/2012 6:13:12 AM	anions1	
26	1209664-03DDF5	Finished	9/27/2012 6:34:28 AM	anions1	
27	1209664-04DDF5	Finished	9/27/2012 6:55:45 AM	anions1	
28	1209664-05DDF5	Finished	9/27/2012 7:17:02 AM	anions1	
29	1209698-03DDF5	Finished	9/27/2012 7:38:19 AM	anions1	
30	1209698-04DDF5	Finished	9/27/2012 7:59:35 AM	anions1	
31	1209698-04DMSDF5	Finished	9/27/2012 8:20:51 AM	anions1	
32	1209698-04DMSDDF5	Finished	9/27/2012 8:42:08 AM	anions1	
33	CCV	Finished	9/27/2012 9:03:25 AM	anions1	
34	CCB	Finished	9/27/2012 9:24:42 AM	anions1	
35	1209698-06DDF5	Finished	9/27/2012 9:45:58 AM	anions1	
36	1209698-07DDF5	Finished	9/27/2012 10:07:15 AM	anions1	
37	1209698-09DDF5	Finished	9/27/2012 10:28:31 AM	anions1	
38	CCV	Finished	9/27/2012 10:49:48 AM	anions1	
39	CCB	Finished	9/27/2012 11:11:05 AM	anions1	
40	WBLKW2	Finished	9/27/2012 6:00:49 PM	anions1	
41	WLCSW2	Finished	9/27/2012 6:22:06 PM	anions1	
42	1209927-01BDF50	Finished	9/27/2012 6:43:23 PM	anions1	

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Weight	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
43	1209924-01C	1.0000	Unknown	42	20.0	1.00	1.00	1.0000	081612
44	1209926-01C	1.0000	Unknown	43	20.0	1.00	1.00	1.0000	081612
45	1209693-01DDF100	1.0000	Unknown	44	20.0	1.00	1.00	100.0000	081612
46	1209693-02DDF100	1.0000	Unknown	45	20.0	1.00	1.00	100.0000	081612
47	1209675-01LDF100	1.0000	Unknown	46	20.0	1.00	1.00	100.0000	081612
48	1209711-01E	1.0000	Unknown	47	20.0	1.00	1.00	1.0000	081612
49	1209747-14DDF10	1.0000	Unknown	48	20.0	1.00	1.00	10.0000	081612
50	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
51	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
52	1209735-01BDF1000	1.0000	Unknown	49	20.0	1.00	1.00	1000.0000	081612
53	1209735-02B	1.0000	Unknown	50	20.0	1.00	1.00	1.0000	081612
54	1209735-03BDF10	1.0000	Unknown	51	20.0	1.00	1.00	10.0000	081612
55	1209735-04BDF10	1.0000	Unknown	52	20.0	1.00	1.00	10.0000	081612
56	1209759-01CDF10	1.0000	Unknown	53	20.0	1.00	1.00	10.0000	081612
57	1209759-02CDF10	1.0000	Unknown	54	20.0	1.00	1.00	10.0000	081612
58	1209759-03CDF10	1.0000	Unknown	55	20.0	1.00	1.00	10.0000	081612
59	1209759-04CDF10	1.0000	Unknown	56	20.0	1.00	1.00	10.0000	081612
60	1209759-05CDF10	1.0000	Unknown	57	20.0	1.00	1.00	10.0000	081612
61	1209759-05CMSDF10	1.0000	Unknown	58	20.0	1.00	1.00	10.0000	081612
62	1209759-05CMSDDF10	1.0000	Unknown	59	20.0	1.00	1.00	10.0000	081612
63	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
64	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
65	WBLKW3	1.0000	Unknown	3	20.0	1.00	1.00	1.0000	081612
66	WLCSW3	1.0000	Unknown	4	20.0	1.00	1.00	1.0000	081612
67	1209764-01BDF5000	1.0000	Unknown	32	20.0	1.00	1.00	5000.0000	081612
68	1209764-06BDF5	1.0000	Unknown	33	20.0	1.00	1.00	5.0000	081612
69	1209764-07BDF5	1.0000	Unknown	34	20.0	1.00	1.00	5.0000	081612
70	1209782-02DDF5	1.0000	Unknown	61	20.0	1.00	1.00	5.0000	081612
71	1209782-02DMSDF5	1.0000	Unknown	62	20.0	1.00	1.00	5.0000	081612
72	1209782-02DMSDDF5	1.0000	Unknown	63	20.0	1.00	1.00	5.0000	081612
73	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
74	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
75	1209782-03DDF5	1.0000	Unknown	64	20.0	1.00	1.00	5.0000	081612
76	1209782-06DDF5	1.0000	Unknown	65	20.0	1.00	1.00	5.0000	081612
77	1209782-07DDF5	1.0000	Unknown	66	20.0	1.00	1.00	5.0000	081612
78	1209782-08DDF5	1.0000	Unknown	67	20.0	1.00	1.00	5.0000	081612
79	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
80	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612
81	1209968-01E	1.0000	Unknown	71	20.0	1.00	1.00	1.0000	081612
82	1209995-06F	1.0000	Unknown	72	20.0	1.00	1.00	1.0000	081612
83	1209995-07F	1.0000	Unknown	73	20.0	1.00	1.00	1.0000	081612
84	1209995-02F	1.0000	Unknown	74	20.0	1.00	1.00	1.0000	081612

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Status	Inj. Date/Time	Program	Comment
43	1209924-01C	Finished	9/27/2012 7:04:39 PM	anions1	
44	1209926-01C	Finished	9/27/2012 7:25:56 PM	anions1	
45	1209693-01DDF100	Finished	9/27/2012 7:47:13 PM	anions1	
46	1209693-02DDF100	Finished	9/27/2012 8:08:29 PM	anions1	
47	1209675-01LDF100	Finished	9/27/2012 8:29:46 PM	anions1	
48	1209711-01E	Finished	9/27/2012 8:51:02 PM	anions1	
49	1209747-14DDF10	Finished	9/27/2012 9:12:19 PM	anions1	
50	CCV	Finished	9/27/2012 9:33:36 PM	anions1	
51	CCB	Finished	9/27/2012 9:54:52 PM	anions1	
52	1209735-01BDF1000	Finished	9/27/2012 10:16:09 PM	anions1	
53	1209735-02B	Finished	9/27/2012 10:37:25 PM	anions1	
54	1209735-03BDF10	Finished	9/27/2012 10:58:42 PM	anions1	
55	1209735-04BDF10	Finished	9/27/2012 11:19:59 PM	anions1	
56	1209759-01CDF10	Finished	9/27/2012 11:41:15 PM	anions1	
57	1209759-02CDF10	Finished	9/28/2012 12:02:32 AM	anions1	
58	1209759-03CDF10	Finished	9/28/2012 12:23:49 AM	anions1	
59	1209759-04CDF10	Finished	9/28/2012 12:45:06 AM	anions1	
60	1209759-05CDF10	Finished	9/28/2012 1:06:22 AM	anions1	
61	1209759-05CMSDF10	Finished	9/28/2012 1:27:39 AM	anions1	
62	1209759-05CMSDDF10	Finished	9/28/2012 1:48:55 AM	anions1	
63	CCV	Finished	9/28/2012 2:10:12 AM	anions1	
64	CCB	Finished	9/28/2012 2:31:28 AM	anions1	
65	WBLKW3	Finished	9/28/2012 10:30:51 AM	anions1	
66	WLCSW3	Finished	9/28/2012 10:52:08 AM	anions1	
67	1209764-01BDF5000	Finished	9/28/2012 11:40:22 AM	anions1	
68	1209764-06BDF5	Finished	9/28/2012 12:01:39 PM	anions1	
69	1209764-07BDF5	Finished	9/28/2012 12:22:55 PM	anions1	
70	1209782-02DDF5	Finished	9/28/2012 1:42:57 PM	anions1	
71	1209782-02DMSDF5	Finished	9/28/2012 2:04:13 PM	anions1	
72	1209782-02DMSDDF5	Finished	9/28/2012 2:25:30 PM	anions1	
73	CCV	Finished	9/28/2012 2:46:47 PM	anions1	
74	CCB	Finished	9/28/2012 3:08:04 PM	anions1	
75	1209782-03DDF5	Finished	9/28/2012 3:29:20 PM	anions1	
76	1209782-06DDF5	Finished	9/28/2012 3:50:37 PM	anions1	
77	1209782-07DDF5	Finished	9/28/2012 4:11:53 PM	anions1	
78	1209782-08DDF5	Finished	9/28/2012 4:33:10 PM	anions1	
79	CCV	Finished	9/28/2012 4:54:27 PM	anions1	
80	CCB	Finished	9/28/2012 5:15:44 PM	anions1	
81	1209968-01E	Finished	9/28/2012 5:37:00 PM	anions1	
82	1209995-06F	Finished	9/28/2012 5:58:17 PM	anions1	
83	1209995-07F	Finished	9/28/2012 6:19:34 PM	anions1	
84	1209995-02F	Finished	9/28/2012 6:40:51 PM	anions1	

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Weight	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
85	1209995-04F	1.0000	Unknown	75	20.0	1.00	1.00	1.0000	081612
86	1209995-05F	1.0000	Unknown	76	20.0	1.00	1.00	1.0000	081612
87	1209995-09F	1.0000	Unknown	77	20.0	1.00	1.00	1.0000	081612
88	CCV	1.0000	Unknown	1	20.0	1.00	1.00	1.0000	081612
89	CCB	1.0000	Unknown	2	20.0	1.00	1.00	1.0000	081612

Title: Temporary sequence for manual data acquisition
Datasource: HP0307B_local
Location: ICS3000_System_1\Sequences & Data\2012\05-2012
Timebase: ICS3000_System_1
#Samples: 89
Created: 9/27/2012 12:20:08 AM by ALSHS.NoUser
Last Update: 9/28/2012 5:15:24 PM by ALSHS.NoUser

No.	Name	Status	Inj. Date/Time	Program	Comment
85	1209995-04F	Finished	9/28/2012 7:02:07 PM	anions1	
86	1209995-05F	Finished	9/28/2012 7:23:24 PM	anions1	
87	1209995-09F	Finished	9/28/2012 7:44:41 PM	anions1	
88	CCV	Finished	9/28/2012 8:05:57 PM	anions1	
89	CCB	Finished	9/28/2012 8:27:14 PM	anions1	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

November 13, 2012

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Camille Hueni, Superfund Project Manager (6SF-RA)

Site: **JONES ROAD GROUND WATER PLUME**

Case#: **42930**

SDG#: **F6EQ0**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: November 8, 2012

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-11
ESAT Doc. No.:	B030-211-0143
TDF No.:	6-12-578B
ESAT File No.:	O-0971

Attached is the data review summary for Case # 42930
SDG # F6EQ0
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

S4VEM Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The EDM contractual compliance screen detected and hardcopy review confirmed the contractually non-compliant issue associated with a closing CCV for acetone. The laboratory requested and received a waiver for this issue.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Some results were qualified because of technical problems. The significant problem is addressed below.

LMVOA sample F6EQ5 had poor DMC performance.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 42930	SITE Jones Road Ground Water Plume
LABORATORY CHEM	NO. OF SAMPLES 7
CONTRACT# EP-W-11-030	MATRIX Water
SDG# F6EQ0	REVIEWER (IF NOT ESB) ESAT
SOW# SOM01.2/MA 2266.0, 2267.0	REVIEWER'S NAME Linda Hoffman
SF# 303DD2NK	COMPLETION DATE November 8, 2012

SAMPLE NO.					
	F6EQ0	F6EQ4			
	F6EQ1	F6EQ5			
	F6EQ2	F6EQ6			
	F6EQ3				

DATA ASSESSMENT SUMMARY

	TVOA	LMVOA
1. HOLDING TIMES	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O
3. CALIBRATIONS	O	M
4. BLANKS	O	O
5. DMC/SURROGATES	O	M
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A
7. OTHER QC	N/A	N/A
8. INTERNAL STANDARDS	O	O
9. COMPOUND ID/QUANTITATION	O	O
10. PERFORMANCE/COMPLETENESS	O	O
11. OVERALL ASSESSMENT	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: LMVOA Acetone failed the technical %D calibration criteria. The 1,4-dioxane failed the technical minimum RRF calibration criteria. One sample had poor DMC performance.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 42930 **SDG** F6EQ0 **SITE** Jones Road Ground Water Plume **LAB** CHEM

COMMENTS: This SDG consisted of seven water samples for LMVOA analysis following CLP SOW SOM01.2. The samples were subject to Modified Analysis Request 2266.0 (MA 2266.0), which requested mandatory screening and a holding time of 5 days because the samples are not acid preserved. Modified Analysis Request 2267.0 (MA 2267.0) applied if vinyl chloride was not detected in the LMVOA samples then those samples must be analyzed by TVOA analysis to achieve a 0.5 ug/L CRQL. Per Region 6, the laboratory was instructed to report only vinyl chloride from the TVOA analyses of samples F6EQ0, F6EQ1, F6EQ2, and F6EQ6. MS/MSD analyses were not requested. The sampler designated sample F6EQ6 as a trip blank.

S4VEM Review was performed for this data package as requested by the TDF. The target compounds of concern with the action levels in parentheses are vinyl chloride (2 ug/L), trans-1,2-dichloroethene (100 ug/L), cis-1,2-dichloroethene (70 ug/L), trichloroethene (5 ug/L), and tetrachloroethene (5 ug/L). Up to four compounds of concern were detected at a concentration above the action level in the field samples. The laboratory diluted up to 100X and reanalyzed samples F6EQ0, F6EQ3, F6EQ4, and F6EQ5 because concentrations of cis-1,2-dichloroethene, 2-butanone, and tetrachloroethene were above the calibrated range. The vinyl chloride results from the TVOA analyses of samples F6EQ0, F6EQ1, F6EQ2, and F6EQ6 were designated for use.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

LMVOA

- The 1,4-dioxane did not meet the technical minimum RRF criterion for all calibrations. Since the IC raw data demonstrated the instrument sensitivity at the CRQL, the reviewer did not reject the associated non-detect results. Instead, the reviewer qualified the reported 1,4-dioxane QL as estimated and biased low for all samples because the associated closing CCV data indicated a significant loss of instrument response for 1,4-dioxane. In the reviewer's opinion, the actual QL for this analyte could be up to 10X the reported value.

- The reviewer qualified the acetone result for all samples as estimated because acetone failed the technical %D criteria for the associated closing CCV.

- Sample F6EQ5 had a recovery above the QC limit for VDMC3. Therefore, the reviewer qualified the detected trans-1,2-dichloroethene result, which is associated with this DMC, as estimated and biased high.

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 42930 **SDG** F6EQ0 **SITE** Jones Road Ground Water Plume **LAB** CHEM

OVERALL ASSESSMENT: Some results were qualified for all LMVOA samples because of problems with calibration and/or DMC performance. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number

SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix

ANDATE: Sample Analysis Date

ANTIME: Sample Analysis Time

CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-01-4	Vinyl Chloride	5.0	U*	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	156-59-2	cis-1,2-Dichloroethene	32		ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	79-01-6	Trichloroethene	12		ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	127-18-4	Tetrachloroethene	240	*	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0	D4340-01	W	09/27/2012	17:01:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-71-8	Dichlorodifluoromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	74-87-3	Chloromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-01-4	Vinyl Chloride	25	U*	ug/L	25	09/25/2012	IW-03

42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	74-83-9	Bromomethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-00-3	Chloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-69-4	Trichlorofluoromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-35-4	1,1-Dichloroethene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	67-64-1	Acetone	50	U*	ug/L	50	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-15-0	Carbon disulfide	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	79-20-9	Methyl acetate	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-09-2	Methylene chloride	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	156-60-5	trans-1,2-Dichloroethene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	1634-04-4	Methyl tert-Butyl ether	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-34-3	1,1-Dichloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	156-59-2	cis-1,2-Dichloroethene	32	*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	78-93-3	2-Butanone	50	U*	ug/L	50	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	74-97-5	Bromochloromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	67-66-3	Chloroform	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	71-55-6	1,1,1-Trichloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	110-82-7	Cyclohexane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	56-23-5	Carbon Tetrachloride	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	71-43-2	Benzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	107-06-2	1,2-Dichloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	123-91-1	1,4-Dioxane	500	U*	ug/L	500	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	79-01-6	Trichloroethene	10	*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	108-87-2	Methylcyclohexane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	78-87-5	1,2-Dichloropropane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-27-4	Bromodichloromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	10061-01-5	cis-1,3-Dichloropropene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	108-10-1	4-Methyl-2-pentanone	50	U*	ug/L	50	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	108-88-3	Toluene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	10061-02-6	trans-1,3-Dichloropropene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	79-00-5	1,1,2-Trichloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	127-18-4	Tetrachloroethene	210		ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	591-78-6	2-Hexanone	50	U*	ug/L	50	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	124-48-1	Dibromochloromethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	106-93-4	1,2-Dibromoethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	108-90-7	Chlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	100-41-4	Ethylbenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	95-47-6	o-Xylene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	179601-23-1	m,p-Xylene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	100-42-5	Styrene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	75-25-2	Bromoform	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	98-82-8	Isopropylbenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	79-34-5	1,1,2,2-Tetrachloroethane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	541-73-1	1,3-Dichlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	106-46-7	1,4-Dichlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	95-50-1	1,2-Dichlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	96-12-8	1,2-Dibromo-3-chloropropane	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	120-82-1	1,2,4-Trichlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ0DL	D4340-01DL	W	09/27/2012	19:10:00	87-61-6	1,2,3-Trichlorobenzene	25	U*	ug/L	25	09/25/2012	IW-03
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-01-4	Vinyl Chloride	5.0	U*	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	SVE-02

42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	156-59-2	cis-1,2-Dichloroethene	17		ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	79-01-6	Trichloroethene	5.8		ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	127-18-4	Tetrachloroethene	86		ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ1	D4340-02	W	09/27/2012	18:03:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-01-4	Vinyl Chloride	5.0	U*	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D

42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	156-59-2	cis-1,2-Dichloroethene	21		ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	79-01-6	Trichloroethene	9.1		ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	127-18-4	Tetrachloroethene	150		ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ2	D4340-03	W	09/27/2012	18:31:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-01-4	Vinyl Chloride	30		ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	67-64-1	Acetone	83	J	ug/L	10	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	156-60-5	trans-1,2-Dichloroethene	2.3	LJ	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	1634-04-4	Methyl tert-Butyl ether	2.4	LJ	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01

42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	156-59-2	cis-1,2-Dichloroethene	2500	*	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	78-93-3	2-Butanone	430	*	ug/L	10	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	79-01-6	Trichloroethene	4.7	LJ	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	127-18-4	Tetrachloroethene	45		ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3	D4340-04	W	09/27/2012	20:50:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-71-8	Dichlorodifluoromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	74-87-3	Chloromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-01-4	Vinyl Chloride	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	74-83-9	Bromomethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-00-3	Chloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-69-4	Trichlorofluoromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-35-4	1,1-Dichloroethene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	67-64-1	Acetone	500	U*	ug/L	500	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-15-0	Carbon disulfide	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	79-20-9	Methyl acetate	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-09-2	Methylene chloride	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	156-60-5	trans-1,2-Dichloroethene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	1634-04-4	Methyl tert-Butyl ether	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-34-3	1,1-Dichloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	156-59-2	cis-1,2-Dichloroethene	2500		ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	78-93-3	2-Butanone	510		ug/L	500	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	74-97-5	Bromochloromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	67-66-3	Chloroform	250	U*	ug/L	250	09/25/2012	OB-01

42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	71-55-6	1,1,1-Trichloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	110-82-7	Cyclohexane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	56-23-5	Carbon Tetrachloride	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	71-43-2	Benzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	107-06-2	1,2-Dichloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	123-91-1	1,4-Dioxane	5000	U*	ug/L	5000	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	79-01-6	Trichloroethene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	108-87-2	Methylcyclohexane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	78-87-5	1,2-Dichloropropane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-27-4	Bromodichloromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	10061-01-5	cis-1,3-Dichloropropene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	108-10-1	4-Methyl-2-pentanone	500	U*	ug/L	500	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	108-88-3	Toluene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	10061-02-6	trans-1,3-Dichloropropene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	79-00-5	1,1,2-Trichloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	127-18-4	Tetrachloroethene	52	*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	591-78-6	2-Hexanone	500	U*	ug/L	500	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	124-48-1	Dibromochloromethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	106-93-4	1,2-Dibromoethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	108-90-7	Chlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	100-41-4	Ethylbenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	95-47-6	o-Xylene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	179601-23-1	m,p-Xylene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	100-42-5	Styrene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	75-25-2	Bromoform	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	98-82-8	Isopropylbenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	79-34-5	1,1,2,2-Tetrachloroethane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	541-73-1	1,3-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	106-46-7	1,4-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	95-50-1	1,2-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	96-12-8	1,2-Dibromo-3-chloropropane	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	120-82-1	1,2,4-Trichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ3DL	D4340-04DL	W	09/27/2012	19:35:00	87-61-6	1,2,3-Trichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-01
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-01-4	Vinyl Chloride	43		ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	156-60-5	trans-1,2-Dichloroethene	5.5		ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	156-59-2	cis-1,2-Dichloroethene	4300	*	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	OB-02

42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	127-18-4	Tetrachloroethene	3.2	LJ	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4	D4340-05	W	09/27/2012	22:06:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-71-8	Dichlorodifluoromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	74-87-3	Chloromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-01-4	Vinyl Chloride	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	74-83-9	Bromomethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-00-3	Chloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-69-4	Trichlorofluoromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-35-4	1,1-Dichloroethene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	67-64-1	Acetone	500	U*	ug/L	500	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-15-0	Carbon disulfide	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	79-20-9	Methyl acetate	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-09-2	Methylene chloride	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	156-60-5	trans-1,2-Dichloroethene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	1634-04-4	Methyl tert-Butyl ether	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-34-3	1,1-Dichloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	156-59-2	cis-1,2-Dichloroethene	6400		ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	78-93-3	2-Butanone	500	U*	ug/L	500	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	74-97-5	Bromochloromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	67-66-3	Chloroform	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	71-55-6	1,1,1-Trichloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	110-82-7	Cyclohexane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	56-23-5	Carbon Tetrachloride	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	71-43-2	Benzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	107-06-2	1,2-Dichloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	123-91-1	1,4-Dioxane	5000	U*	ug/L	5000	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	79-01-6	Trichloroethene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	108-87-2	Methylcyclohexane	250	U*	ug/L	250	09/25/2012	OB-02

42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	78-87-5	1,2-Dichloropropane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-27-4	Bromodichloromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	10061-01-5	cis-1,3-Dichloropropene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	108-10-1	4-Methyl-2-pentanone	500	U*	ug/L	500	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	108-88-3	Toluene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	10061-02-6	trans-1,3-Dichloropropene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	79-00-5	1,1,2-Trichloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	127-18-4	Tetrachloroethene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	591-78-6	2-Hexanone	500	U*	ug/L	500	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	124-48-1	Dibromochloromethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	106-93-4	1,2-Dibromoethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	108-90-7	Chlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	100-41-4	Ethylbenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	95-47-6	o-Xylene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	179601-23-1	m,p-Xylene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	100-42-5	Styrene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	75-25-2	Bromoform	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	98-82-8	Isopropylbenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	79-34-5	1,1,2,2-Tetrachloroethane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	541-73-1	1,3-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	106-46-7	1,4-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	95-50-1	1,2-Dichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	96-12-8	1,2-Dibromo-3-chloropropane	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	120-82-1	1,2,4-Trichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ4DL	D4340-05DL	W	09/27/2012	20:00:00	87-61-6	1,2,3-Trichlorobenzene	250	U*	ug/L	250	09/25/2012	OB-02
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-01-4	Vinyl Chloride	190		ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	156-60-5	trans-1,2-Dichloroethene	16	J^	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	156-59-2	cis-1,2-Dichloroethene	7900	*	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	79-01-6	Trichloroethene	13		ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	MW-01

42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	127-18-4	Tetrachloroethene	53		ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5	D4340-06	W	09/27/2012	23:21:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-71-8	Dichlorodifluoromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	74-87-3	Chloromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-01-4	Vinyl Chloride	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	74-83-9	Bromomethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-00-3	Chloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-69-4	Trichlorofluoromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-35-4	1,1-Dichloroethene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	67-64-1	Acetone	1000	U*	ug/L	1000	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-15-0	Carbon disulfide	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	79-20-9	Methyl acetate	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-09-2	Methylene chloride	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	156-60-5	trans-1,2-Dichloroethene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	1634-04-4	Methyl tert-Butyl ether	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-34-3	1,1-Dichloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	156-59-2	cis-1,2-Dichloroethene	16000		ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	78-93-3	2-Butanone	1000	U*	ug/L	1000	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	74-97-5	Bromochloromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	67-66-3	Chloroform	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	71-55-6	1,1,1-Trichloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	110-82-7	Cyclohexane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	56-23-5	Carbon Tetrachloride	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	71-43-2	Benzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	107-06-2	1,2-Dichloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	123-91-1	1,4-Dioxane	10000	U*	ug/L	10000	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	79-01-6	Trichloroethene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	108-87-2	Methylcyclohexane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	78-87-5	1,2-Dichloropropane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-27-4	Bromodichloromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	10061-01-5	cis-1,3-Dichloropropene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	108-10-1	4-Methyl-2-pentanone	1000	U*	ug/L	1000	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	108-88-3	Toluene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	10061-02-6	trans-1,3-Dichloropropene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	79-00-5	1,1,2-Trichloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	127-18-4	Tetrachloroethene	500	U*	ug/L	500	09/25/2012	MW-01

42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	591-78-6	2-Hexanone	1000	U*	ug/L	1000	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	124-48-1	Dibromochloromethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	106-93-4	1,2-Dibromoethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	108-90-7	Chlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	100-41-4	Ethylbenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	95-47-6	o-Xylene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	179601-23-1	m,p-Xylene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	100-42-5	Styrene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	75-25-2	Bromoform	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	98-82-8	Isopropylbenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	79-34-5	1,1,2,2-Tetrachloroethane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	541-73-1	1,3-Dichlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	106-46-7	1,4-Dichlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	95-50-1	1,2-Dichlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	96-12-8	1,2-Dibromo-3-chloropropane	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	120-82-1	1,2,4-Trichlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ5DL	D4340-06DL	W	09/27/2012	20:25:00	87-61-6	1,2,3-Trichlorobenzene	500	U*	ug/L	500	09/25/2012	MW-01
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-01-4	Vinyl Chloride	5.0	U*	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	67-64-1	Acetone	10	UJ	ug/L	10	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-15-0	Carbon disulfide	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	1634-04-4	Methyl tert-Butyl ether	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	78-93-3	2-Butanone	10	U	ug/L	10	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	56-23-5	Carbon Tetrachloride	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	71-43-2	Benzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	108-88-3	Toluene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	127-18-4	Tetrachloroethene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	591-78-6	2-Hexanone	10	U	ug/L	10	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1

42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	100-42-5	Styrene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ6	D4340-07	W	09/27/2012	16:36:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	09/25/2012	Trip Blank 1
42930	F6EQ0	F6EQ0	D4340-01	W	09/28/2012	15:49:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	09/25/2012	IW-03
42930	F6EQ0	F6EQ1	D4340-02	W	09/28/2012	13:37:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	09/25/2012	SVE-02
42930	F6EQ0	F6EQ2	D4340-03	W	09/28/2012	17:49:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	09/25/2012	SVE-02 D
42930	F6EQ0	F6EQ6	D4340-07	W	09/28/2012	17:02:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	09/25/2012	Trip Blank 1

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 42930 SDG No. F6EQ0 SDG Nos. To Follow Mod. Ref No. 2266.0/2267.0 Date Rec 10/17/12

EPA Lab ID: CHEM

Lab Location: Mountainside, NJ

Region: 6 Audit No.: 42930/F6EQ0

Re_Submitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited by: Linda Hoffman / ESAT Data Reviewer Date 10/31/12

Audited by: Date

Signature Printed Name/Title

DC-2__

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/25/2012
CarrierName: FedEx
AirbillNo: 7990 5093 1334

CHAIN OF CUSTODY RECORD
Jones Road Ground Water Plume/TX
Case #: 42930

No: 6-092512-185350-0006
Lab: CHEM
Lab Contact: Snehal Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
F6EQ0	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461734 (Ice to 4°C), 6-461735 (Ice to 4°C), 6-461736 (Ice to 4°C), 6-461737 (Ice to 4°C), 6-461738 (Ice to 4°C) (5)	IW-03	09/25/2012 10:45	MF6EQ0	Field Sample
F6EQ1	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461741 (Ice to 4°C), 6-461742 (Ice to 4°C), 6-461743 (Ice to 4°C), 6-461744 (Ice to 4°C), 6-461745 (Ice to 4°C) (5)	SVE-02	09/25/2012 13:01	MF6EQ1	Field Sample
F6EQ2	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461747 (Ice to 4°C), 6-461748 (Ice to 4°C), 6-461749 (Ice to 4°C), 6-461750 (Ice to 4°C), 6-461751 (Ice to 4°C) (5)	SVE-02 D	09/25/2012 13:01	MF6EQ2	Field Duplicate
F6EQ3	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461753 (Ice to 4°C), 6-461754 (Ice to 4°C), 6-461755 (Ice to 4°C), 6-461756 (Ice to 4°C), 6-461757 (Ice to 4°C) (5)	OB-01	09/25/2012 14:47	MF6EQ3	Field Sample

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Special Instructions: Samples for TVOA analysis will not be preserved. The laboratory MUST analyze all samples within five days from sample receipt.	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: TVOA=TVOA/VOA SOM01.2 by MA 2266.0 & 2267.0	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9/25/12									

USEPA CLP Organics COC (REGION COPY)
DateShipped: 9/25/2012
CarrierName: FedEx
AirbillNo: 7990 5093 1334

CHAIN OF CUSTODY RECORD
Jones Road Ground Water Plume/TX
Case #: 42930

No: 6-092512-185350-0006
Lab: CHEM
Lab Contact: Snehal Mehta
Lab Phone: 908-789-8900

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
F6EQ4	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461759 (Ice to 4°C), 6-461760 (Ice to 4°C), 6-461761 (Ice to 4°C), 6-461762 (Ice to 4°C), 6-461763 (Ice to 4°C) (5)	OB-02	09/25/2012 16:57	MF6EQ4	Field Sample
F6EQ5	Ground Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461765 (Ice to 4°C), 6-461766 (Ice to 4°C), 6-461767 (Ice to 4°C), 6-461768 (Ice to 4°C), 6-461769 (Ice to 4°C) (5)	MW-01	09/25/2012 16:00	MF6EQ5	Field Sample
F6EQ6	Water/ Justin Suchecki	Grab	TVOA(21), TVOA(21), TVOA(21), TVOA(21), TVOA(21)	6-461771 (Ice to 4°C), 6-461772 (Ice to 4°C), 6-461773 (Ice to 4°C), 6-461774 (Ice to 4°C), 6-461775 (Ice to 4°C) (5)	Trip Blank 1	09/25/2012 06:30		Trip Blank

Page 21 of 21

Special Instructions: Samples for TVOA analysis will not be preserved. The laboratory MUST analyze all samples within five days from sample receipt.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: TVOA=TVOA/VOA SOM01.2 by MA 2266.0 & 2267.0

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9/25/12									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

November 8, 2012

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Camille Hueni, Superfund Project Manager (6SF-RA)

Site: **JONES ROAD GROUND WATER PLUME**

Case#: **42930**

SDG#: **MF6EQ0**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: November 7, 2012

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0120
TDF No.:	6-12-577B
ESAT File No.:	I-0590

Attached is the data review summary for Case # 42930
SDG # MF6EQ0
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

S3VEM Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The EDM contractual compliance screen found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Some results were qualified for the significant technical problems addressed below.

A. The arsenic and selenium matrix spike recoveries were above the QC limit.

B. The serial dilution differences were above the QC limit for calcium, chromium, magnesium, and sodium.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	42930	SITE	Jones Road Ground Water Plume
LABORATORY	CHEM	NO. OF SAMPLES	6
CONTRACT#	EP-W-09-038	MATRIX	Water
SDG#	MF6EQ0	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Linda Hoffman
SF#	303DD2NK	COMPLETION DATE	November 7, 2012

SAMPLE NO.					
	MF6EQ0	MF6EQ4			
	MF6EQ1	MF6EQ5			
	MF6EQ2				
	MF6EQ3				

DATA ASSESSMENT SUMMARY

		ICP
1.	HOLDING TIMES	O
2.	CALIBRATIONS	O
3.	BLANKS	O
4.	MATRIX SPIKES	M
5.	DUPLICATE ANALYSIS	O
6.	ICP QC	M
7.	LCS	O
8.	SAMPLE VERIFICATION	O
9.	OTHER QC	N/A
10.	OVERALL ASSESSMENT	M

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN: Matrix spike recoveries were above the QC limit for arsenic and selenium. Serial dilution differences were above the QC limit for calcium, chromium, magnesium, and sodium.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 42930 **SDG** MF6EQ0 **SITE** Jones Road Ground Water Plume **LAB** CHEM

COMMENTS: This SDG consisted of six water samples for dissolved metals (by ICP-AES and ICP-MS) analysis following CLP SOW ISM01.3. The sampler designated sample MF6EQ0 for laboratory QC analyses.

The target analytes of concern and action levels can be found in the table on page 11 of this report. Please note that the CRQLs were above the action levels for aluminum and potassium. Up to eleven analytes of concern were detected at concentrations above the action levels in all samples. The laboratory diluted and reanalyzed sample MF6EQ3 because IS 45Sc had a high %RI in the undiluted analysis of this sample. Since the diluted reanalysis resolved the problem, the results associated with IS 45Sc were reported from this analysis.

S3VEM Review was performed for this data package as requested by the Region. For this review option, laboratory contractual compliance and technical usability of the sample results are primarily determined by the EDM CCS Defect Report and NFG Data Review Results Report, respectively. The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the EDM reports. The NFG Data Review Results Report for the SDG is attached to this report as an addendum for additional information.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

- Because of laboratory blank readings, most results <CRQLs for the following analytes should be considered undetected and were flagged "U" at the CRQLs on the DST: antimony, copper, lead, silver, thallium, and vanadium.

- The reviewer qualified the detected results for arsenic and selenium as estimated because the pre-digestion matrix spike recoveries for these analytes were above the QC limit. The associated post-digestion matrix spike recoveries did not indicate a bias effect.

- The reviewer qualified as estimated the results for the following analytes because the serial dilution differences for these analytes were above the QC limit: calcium, chromium, magnesium, and sodium.

OVERALL ASSESSMENT: Some results were qualified for all samples because of problems with matrix spike recoveries and serial dilution differences. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included is the final version.

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSOLD	SMPWTVL	FINVOL	METHOD	STATLOC
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7429905	Aluminum	200	U	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440382	Arsenic	0.92	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440393	Barium	639		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440417	Beryllium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440439	Cadmium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7440702	Calcium	134000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440473	Chromium	6.9	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440484	Cobalt	0.43	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440508	Copper	0.46	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7439896	Iron	25.1	LJ	ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7439921	Lead	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7439954	Magnesium	12300	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7439965	Manganese	8.7	LJ	ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440020	Nickel	11.5		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7782492	Selenium	1.6	LJ	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/27/2012	14:25:52	7440235	Sodium	62500	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440622	Vanadium	3.5	LJ	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ0	D4341-01	W	Field_Sample	09/26/2012	17:55:51	7440666	Zinc	2.8		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	IW-03
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7429905	Aluminum	114	LJ	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440382	Arsenic	1.2	J	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440393	Barium	607		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440417	Beryllium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440439	Cadmium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7440702	Calcium	137000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440473	Chromium	6.1	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440484	Cobalt	0.42	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440508	Copper	0.48	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7439896	Iron	77.9	LJ	ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7439921	Lead	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7439954	Magnesium	12500	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7439965	Manganese	14.9	LJ	ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440020	Nickel	5.1		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7782492	Selenium	5.0	U	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/27/2012	14:52:14	7440235	Sodium	63300	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440622	Vanadium	3.8	LJ	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ1	D4341-04	W	Field_Sample	09/26/2012	18:35:54	7440666	Zinc	1.4	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7429905	Aluminum	74.2	LJ	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440382	Arsenic	1.4	J	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440393	Barium	620		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440417	Beryllium	0.11	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440439	Cadmium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7440702	Calcium	135000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440473	Chromium	5.2	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440484	Cobalt	0.41	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440508	Copper	0.60	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7439896	Iron	49.4	LJ	ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7439921	Lead	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7439954	Magnesium	12400	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7439965	Manganese	12.8	LJ	ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440020	Nickel	4.6		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7782492	Selenium	1.6	LJ	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/27/2012	15:01:01	7440235	Sodium	62800	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440622	Vanadium	5.0	U	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D
42930	MF6EQ0	MF6EQ2	D4341-05	W	Field_Sample	09/26/2012	19:15:59	7440666	Zinc	1.2	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	SVE-02 D

42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7429905	Aluminum	124	LJ	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440382	Arsenic	224	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7440393	Barium	2060		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440417	Beryllium	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7440439	Cadmium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7440702	Calcium	410000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440473	Chromium	1.3	LJ	ug/L	4.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440484	Cobalt	43.3		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440508	Copper	4.0	U	ug/L	4.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7439896	Iron	11700		ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7439921	Lead	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7439954	Magnesium	52000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7439965	Manganese	2390		ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440020	Nickel	39.0		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7782492	Selenium	10.0	U	ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/27/2012	15:18:35	7440235	Sodium	116000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/26/2012	19:29:20	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440622	Vanadium	3.0	LJ	ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ3	D4341-06	W	Field_Sample	09/29/2012	21:59:58	7440666	Zinc	5.7		ug/L	4.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-01
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7429905	Aluminum	105	LJ	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440382	Arsenic	88.0	J	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440393	Barium	899		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440417	Beryllium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440439	Cadmium	0.11	LJ	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7440702	Calcium	152000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440473	Chromium	8.1	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440484	Cobalt	1.9		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440508	Copper	2.8		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7439896	Iron	9670		ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7439921	Lead	2.0		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7439954	Magnesium	15400	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7439965	Manganese	932		ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440020	Nickel	5.5		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7782492	Selenium	10.6	J	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/27/2012	15:27:24	7440235	Sodium	53800	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440622	Vanadium	5.0	U	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ4	D4341-07	W	Field_Sample	09/26/2012	19:42:42	7440666	Zinc	64.5		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	OB-02
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7429905	Aluminum	200	U	ug/L	200	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440360	Antimony	2.0	U	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440382	Arsenic	148	J	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440393	Barium	1280		ug/L	10.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440417	Beryllium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440439	Cadmium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7440702	Calcium	150000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440473	Chromium	7.5	J	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440484	Cobalt	1.6		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440508	Copper	0.19	LJ	ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7439896	Iron	12600		ug/L	100	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7439921	Lead	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7439954	Magnesium	16000	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7439965	Manganese	860		ug/L	15.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440020	Nickel	4.3		ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7440097	Potassium	5000	U	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7782492	Selenium	8.3	J	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440224	Silver	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/27/2012	15:36:04	7440235	Sodium	50500	J	ug/L	5000	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	P	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440280	Thallium	1.0	U	ug/L	1.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440622	Vanadium	5.0	U	ug/L	5.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01
42930	MF6EQ0	MF6EQ5	D4341-08	W	Field_Sample	09/26/2012	19:56:06	7440666	Zinc	2.1		ug/L	2.0	09/25/2012	09/26/2012	09/26/2012	Low	0.0	50	50	MS	MW-01

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 42930 SDG No. MF6EQ0 SDG Nos. To Follow Mod. Ref. No. Date Rec 10/16/12

EPA Lab ID: CHEM

Lab location: Mountainside, NJ

Region: 6 Audit No.: 42930/MF6EQ0

Resubmitted CSF? Yes No X

Box No(s): 1

COMMENTS:

Item Description

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited Linda Hoffman/ESAT Data Reviewer Date 11/03/12

Audited Date

Signature Printed Name/Title

DC-2

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 9/25/2012
CarrierName: FedEx
AirbillNo: 7990 5097 0489

CHAIN OF CUSTODY RECORD
Jones Road Ground Water Plume/TX
Case #: 42930

No: 6-092512-190153-0007
Lab: CHEM
Lab Contact: Snehal Mehta
Lab Phone: 908-789-8900

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF6EQ0	Ground Water/ Justin Suchecki	Grab	DM(21), DM(21)	6-461739 (HNO3 (field filtered) pH<2 Ice), 6-461740 (HNO3 (field filtered) pH<2 Ice) (2)	IW-03	09/25/2012 10:45	F6EQ0	Field Sample
MF6EQ1	Ground Water/ Justin Suchecki	Grab	DM(21)	6-461746 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02	09/25/2012 13:01	F6EQ1	Field Sample
MF6EQ2	Ground Water/ Justin Suchecki	Grab	DM(21)	6-461752 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02 D	09/25/2012 13:01	F6EQ2	Field Duplicate
MF6EQ3	Ground Water/ Justin Suchecki	Grab	DM(21)	6-461758 (HNO3 (field filtered) pH<2 Ice) (1)	OB-01	09/25/2012 14:47	F6EQ3	Field Sample
MF6EQ4	Ground Water/ Justin Suchecki	Grab	DM(21)	6-461764 (HNO3 (field filtered) pH<2 Ice) (1)	OB-02	09/25/2012 16:57	F6EQ4	Field Sample
MF6EQ5	Ground Water/ Justin Suchecki	Grab	DM(21)	6-461770 (HNO3 (field filtered) pH<2 Ice) (1)	MW-01	09/25/2012 16:00	F6EQ5	Field Sample

Sample(s) to be used for Lab QC: MF6EQ0

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: DM=Dissolved Metals ISM01.3/ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	9/25/12									

Case 42930 – Jones Road

	ug/L
Aluminum	20
Antimony	6
Arsenic	10
Barium	200
Beryllium	4
Cadmium	5
Calcium	500
Chromium	100
Cobalt	1
Copper	1,300
Iron	200
Lead	15
Magnesium	500
Manganese	1
Nickel	1
Potassium	500
Selenium	50
Silver	1
Sodium	500
Thallium	2
Vanadium	5
Zinc	2

ADDENDUM

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW01, MF6EQ0, MF6EQ5, MF6EQ0L
	Calcium PBW01
	Aluminum PBW01 , MF6EQ0 , MF6EQ5 , MF6EQ0L
	Iron MF6EQ0L
Blanks	**ICP_AES**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF6EQ0D, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, PBW01, MF6EQ0, MF6EQ0L
	Aluminum MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ4
	Potassium PBW01
	Manganese MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ0L
	Iron MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2
Blanks	**ICP_AES**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	PBW01
	Potassium PBW01
Blanks	**ICP_AES**
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF6EQ0S, MF6EQ3, MF6EQ4, MF6EQ5
	Aluminum LCS , MF6EQ0S
	Potassium LCS
	Manganese LCS , MF6EQ0S , MF6EQ3 , MF6EQ4 , MF6EQ5
	Iron LCS , MF6EQ0S , MF6EQ3 , MF6EQ4 , MF6EQ5
Blanks	**ICP_AES**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_AES
	Potassium LCS
Blanks	**ICP_AES**
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF6EQ0, MF6EQ0D, MF6EQ0S, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, MF6EQ5
	Iron LCS , MF6EQ0 , MF6EQ0D , MF6EQ0S , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
Blanks	**ICP_AES**
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS
	Potassium LCS

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW04, MF6EQ0, MF6EQ0D, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ3, MF6EQ5
	Cadmium PBW04 , MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ3 , MF6EQ5
Blanks	**ICP_MS**
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF6EQ3, MF6EQ2, MF6EQ0, MF6EQ4, MF6EQ5, MF6EQ0D, MF6EQ1, MF6EQ0L
	Chromium MF6EQ3
	Beryllium MF6EQ2
	Antimony MF6EQ0 , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Thallium MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Copper MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ5
	Silver MF6EQ0 , MF6EQ2
	Lead MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ5
Blanks	**ICP_MS**
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF6EQ0, MF6EQ0D, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ4, MF6EQ5, MF6EQ3
	Vanadium MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ4 , MF6EQ5
	Arsenic MF6EQ0 , MF6EQ0D , MF6EQ0L
	Chromium MF6EQ0L
	Beryllium MF6EQ2
	Antimony MF6EQ0 , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Thallium MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Copper MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ5
	Silver MF6EQ0 , MF6EQ2
	Lead MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ5
Blanks	**ICP_MS**

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	MF6EQ3, MF6EQ0A, LCS, MF6EQ0S, MF6EQ4
	Arsenic MF6EQ3 , MF6EQ0A
	Cobalt MF6EQ3
	Nickel MF6EQ3
	Beryllium LCS , MF6EQ0S
	Antimony LCS , MF6EQ0S
	Thallium LCS , MF6EQ0S
	Copper LCS , MF6EQ0S , MF6EQ4
	Silver LCS , MF6EQ0S
	Lead LCS , MF6EQ0S , MF6EQ4
Blanks	**ICP_MS**
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualified detected and nondetected analytes.
	LCS, MF6EQ0, MF6EQ0D, MF6EQ0S, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ4, MF6EQ5
	Chromium LCS , MF6EQ0 , MF6EQ0D , MF6EQ0S , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ4 , MF6EQ5
	Beryllium LCS , MF6EQ0S
	Antimony LCS , MF6EQ0S
	Thallium LCS , MF6EQ0S
	Copper LCS , MF6EQ0S , MF6EQ4
	Silver LCS , MF6EQ0S
	Lead LCS , MF6EQ0S , MF6EQ4
Blanks	**ICP_MS**
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF6EQ0, MF6EQ0D, MF6EQ0S, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ4, MF6EQ5
	Zinc LCS , MF6EQ0 , MF6EQ0D , MF6EQ0S , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ4 , MF6EQ5
Blanks	**ICP_MS**

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Blanks

Blanks	ICP_MS
ND16	The following samples have analyte results greater than or equal to MDLs. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	LCS, MF6EQ0, MF6EQ0D, MF6EQ0S, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ4, MF6EQ5
	Zinc LCS , MF6EQ0 , MF6EQ0D , MF6EQ0S , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ4 , MF6EQ5
	Cadmium LCS , MF6EQ0S , MF6EQ4

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	ICP_AES
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6EQ0D, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, PBW01, MF6EQ0L, MF6EQ0
	Aluminum MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ4
	Potassium PBW01
	Magnesium MF6EQ0L
	Manganese MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ0L
	Iron MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Detection Limit

Detection Limit	ICP_MS
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J.
	MF6EQ0, MF6EQ0D, MF6EQ1, MF6EQ0L, MF6EQ2, MF6EQ3, MF6EQ4, MF6EQ5
	Vanadium MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Arsenic MF6EQ0 , MF6EQ0D , MF6EQ0L
	Chromium MF6EQ0L , MF6EQ3
	Copper MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ5
	Lead MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ2 , MF6EQ3 , MF6EQ5
	Selenium MF6EQ0 , MF6EQ2
	Cobalt MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2
	Zinc MF6EQ1 , MF6EQ0L , MF6EQ2
	Beryllium MF6EQ2
	Antimony MF6EQ0 , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Thallium MF6EQ0 , MF6EQ0D , MF6EQ1 , MF6EQ0L , MF6EQ2 , MF6EQ3 , MF6EQ4 , MF6EQ5
	Cadmium MF6EQ4
	Silver MF6EQ0 , MF6EQ2

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Matrix Spikes

Matrix Spikes	ICP_MS
NG14	The following Matrix Spike samples have percent recoveries greater than 125% and post-digestion spike samples have percent recoveries less than or equal to 125%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are not qualified.
	MF6EQ0, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, MF6EQ5
	Selenium MF6EQ0S
	Arsenic MF6EQ0S

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected anlaytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF6EQ0, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, MF6EQ5
	Sodium MF6EQ0L
	Calcium MF6EQ0L
	Magnesium MF6EQ0L

National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) **SDG** MF6EQ0 **Case** 42930 **Contract** EPW09038 **Region** 6 **DDTID** 161934 **SOW** ISM01.3

Data Review Reports

Serial Dilution

Serial Dilution	ICP_MS
NL032	The following ICP-MS Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UJ.
	MF6EQ0, MF6EQ1, MF6EQ2, MF6EQ3, MF6EQ4, MF6EQ5
	Chromium MF6EQ0L

ALS Environmental

Work Order: 1212646

Project Name:

Jones Road

EA Engineering, Science and Technology

Teri McMillan
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102
(505) 224-9013

16-Feb-2013

NELAP ACCREDITED TNI LABORATORY

Certificate No: TX: T104704231-12-10

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- TRRP Cover Page
- TRRP Laboratory Review Checklist
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- Qualifiers, Acronyms, and Units Table
- Analytical Report
- Dates Report
- Method Detection/Reporting Limits
- QC Batch Summary Report
- Gases RSK 175 Raw Data
- Wet Chemistry Raw Data

26-Feb-2013

Teri McMillan
EA Engineering, Science and Technology
320 Gold Avenue SW, Suite 1210
Albuquerque, New Mexico 87102

Tel: (505) 224-9013
Fax: (505) 224-9016

Re: Jones Road Work Order: **1212646**

Dear Teri,

ALS Environmental received 6 samples on 19-Dec-2012 10:30 AM for the analyses presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

The total number of pages in this revised report is 202.

Regards,

Patricia L. Lynch

Electronically approved by: Jumoke M. Lawal

Patricia L. Lynch
Project Manager

Certificate No: TX: T104704231-12-10

TRRP Laboratory Data Package Cover Page

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

R1 Field chain-of-custody documentation;

R2 Sample identification cross-reference;

R3 Test reports (analytical data sheets) for each environmental sample that includes:
a) Items consistent with NELAC Chapter 5,
b) dilution factors,
c) preparation methods,
d) cleanup methods, and
e) if required for the project, tentatively identified compounds (TICs).

R4 Surrogate recovery data including:
a) Calculated recovery (%R), and
b) The laboratory's surrogate QC limits.

R5 Test reports/summary forms for blank samples;

R6 Test reports/summary forms for laboratory control samples (LCSs) including:
a) LCS spiking amounts,
b) Calculated %R for each analyte, and
c)The laboratory's LCS QC limits.

R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
a) Samples associated with the MS/MSD clearly identified,
b) MS/MSD spiking amounts,
c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
d) Calculated %Rs and relative percent differences (RPDs), and
e) The laboratory's MS/MSD QC limits.

R8 Laboratory analytical duplicate (if applicable) recovery and precision:
a) the amount of analyte measured in the duplicate,
b) the calculated RPD, and
c) the laboratory's QC limits for analytical duplicates.

R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client:	EA Engineering, Science and Technology	**TRRP Laboratory Data Package Cover Page**
Project:	Jones Road	
Work Order:	1212646	

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by [ ] TCEQ or [ ] _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.

Patricia L. Lynch

Patricia L. Lynch
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 02/26/2013					
Project Name: Jones Road			Laboratory Job Number: 1212646					
Reviewer Name: Pat Lynch			Prep Batch Number(s): R140207, R140446, R140615, R140617					
#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?		X			1
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 02/26/2013					
Project Name: Jones Road			Laboratory Job Number: 1212646					
Reviewer Name: Pat Lynch			Prep Batch Number(s): R140207, R140446, R140615, R140617					
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?			X		
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data	
Laboratory Name: ALS Laboratory Group	LRC Date: 02/26/2013
Project Name: Jones Road	Laboratory Job Number: 1212646
Reviewer Name: Pat Lynch	Prep Batch Number(s): R140207, R140446, R140615, R140617

ER#[5]	Description
1	Total and Dissolved TOC: Samples SVE-02 D and MW-1 were initially analyzed within the 28 day holding time. However, during the preparation of the Level 4 data package, we noticed discrepancies between the total and dissolved TOC results that were provided in the original summary report. The samples were reanalyzed outside the holding time, and those results were reported. The results should be considered as estimates.
2	Batch R140446, Gases RSK 175, Sample IW-03: MS/MSD recoveries were above the control limits for methane due to high concentration to the background sample. Results are flagged with E and O. The associated LCS recoveries and MS/MSD RPD were within the control limits.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

ALS Environmental

Date: 16-Feb-13

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: **1212646**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1212646-01	IW-03	Groundwater		12/18/2012 10:42	12/19/2012 10:30	☐
1212646-02	SVE-02	Groundwater		12/18/2012 12:20	12/19/2012 10:30	☐
1212646-03	SVE-02 D	Groundwater		12/18/2012 12:20	12/19/2012 10:30	☐
1212646-04	OB-1	Groundwater		12/18/2012 14:59	12/19/2012 10:30	☐
1212646-05	OB-2	Groundwater		12/18/2012 17:20	12/19/2012 10:30	☐
1212646-06	MW-1	Groundwater		12/18/2012 16:08	12/19/2012 10:30	☐

Client: EA Engineering, Science and Technology
Project: Jones Road
Work Order: 1212646

Case Narrative

At the request of the client, this report was revised to TRRP Level IV from standard report.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 66273

1212646

EA - NM: EA Engineering, Science and Technology

Project: Jones Road

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Jones Road	A	Gases (RSK-175) Methane,Ethane, Ethene
Work Order		Project Number	1434270 B7	B	Anions (300) Cl, Nitrate
Company Name	EA Engineering, Science and Technology	Bill To Company	EA Engineering, Science and Technolo	C	Total TOC (415.1)
Send Report To	Teri McMillan	Invoice Attn	Teri McMillan	D	Dissolved TOC (415.1) - Client Filtered
Address	320 Gold Avenue SW, Suite 1210	Address	320 Gold Avenue SW, Suite 1210	E	
				F	
City/State/Zip	Albuquerque, New Mexico 87102	City/State/Zip	Albuquerque, New Mexico 87102	G	
Phone	(505) 224-9013	Phone	(505) 224-9013	H	
Fax	(505) 224-9016	Fax	(505) 224-9016	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	IW-03	12/18/12	10:42	GW	1,5,8	12	X	X	X	X	* Please run MS MSD on						
2	SVE-02		12:20			5					IW-03 for all analyses						
3	SVE-02 D		12:20														
4	OB-1		14:59														
5	OB-2		17:20														
6	mw-1		16:08														
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Justin Swhek

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: John T. Bonner | Date: 12/19/12 | Time: 1030. | Received by:

Notes: 5 Day TAT.

Relinquished by: | Date: | Time: | Received by (Laboratory): 12.19.12. 1030

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Cooler ID	Cooler Temp.
3762	
3855	

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other / EDD
☐ TRRP CheckList
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

ALS Environmental

Sample Receipt Checklist

Client Name: **EA - NM** Date/Time Received: **19-Dec-12 10:30**

Work Order: **1212646** Received by: **PMG**

Checklist completed by Robert D. Harris (eSignature) 19-Dec-12 (Date) Reviewed by: Bethany McDaniel (eSignature) 21-Dec-12 (Date)

Matrices: groundwaters
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.1c, 1.4c c/u	005	
Cooler(s)/Kit(s):	3702,3855		
Date/Time sample(s) sent to storage:	12/19/12 11:10		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Client: EA Engineering, Science and Technology
Project: Jones Road
WorkOrder: 1212646

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter
ug/L	Micrograms per Liter

Analytical Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: IW-03
Collection Date: 12/18/2012 10:42 AM

Work Order: 1212646
Lab ID: 1212646-01
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: RSK-175					Analyst: NPI
Ethane	U		0.200	1.00	ug/L	1	12/27/2012 10:04
Ethene	U		0.200	1.00	ug/L	1	12/27/2012 10:04
Methane	**124**		**2.00**	**5.00**	**ug/L**	10	12/27/2012 12:00
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	**2.24**		**0.030**	**0.100**	**mg/L**	1	12/19/2012 17:40
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	12/19/2012 17:40
Sulfate	**12.8**		**0.20**	**0.500**	**mg/L**	1	12/19/2012 17:40
Surr: Selenate (surr)	*107*			*85-115*	*%REC*	1	12/19/2012 17:40
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Dissolved	**0.736**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 14:42
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Total	**0.406**	J	**0.10**	**0.500**	**mg/L**	1	12/29/2012 20:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE-02
Collection Date: 12/18/2012 12:20 PM

Work Order: 1212646
Lab ID: 1212646-02
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: RSK-175					Analyst: NPI
Ethane	U		0.200	1.00	ug/L	1	12/27/2012 10:53
Ethene	U		0.200	1.00	ug/L	1	12/27/2012 10:53
Methane	U		0.200	0.500	ug/L	1	12/27/2012 10:53
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	**1.79**		**0.030**	**0.100**	**mg/L**	1	12/19/2012 18:23
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	12/19/2012 18:23
Sulfate	**13.9**		**0.20**	**0.500**	**mg/L**	1	12/19/2012 18:23
Surr: Selenate (surr)	*103*			*85-115*	*%REC*	1	12/19/2012 18:23
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Dissolved	**1.20**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 15:33
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Total	**1.14**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 21:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *27-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: SVE-02 D
Collection Date: 12/18/2012 12:20 PM

Work Order: 1212646
Lab ID: 1212646-03
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		0.200	1.00	ug/L	1	12/27/2012 11:05
Ethene	U		0.200	1.00	ug/L	1	12/27/2012 11:05
Methane	U		0.200	0.500	ug/L	1	12/27/2012 11:05
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**1.85**		**0.030**	**0.100**	**mg/L**	1	12/19/2012 18:38
Nitrogen, Nitrite (As N)	**0.0860**	J	**0.030**	**0.100**	**mg/L**	1	12/19/2012 18:38
Sulfate	**14.8**		**0.20**	**0.500**	**mg/L**	1	12/19/2012 18:38
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	1	12/19/2012 18:38
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**0.955**	JH	**0.20**	**1.00**	**mg/L**	2	2/20/2013 13:08
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**0.959**	JH	**0.20**	**1.00**	**mg/L**	2	2/20/2013 13:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB-1
Collection Date: 12/18/2012 02:59 PM

Work Order: 1212646
Lab ID: 1212646-04
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: RSK-175					Analyst: NPI
Ethane	**0.517**	J	**0.200**	**1.00**	**ug/L**	1	12/27/2012 11:16
Ethene	**0.889**	J	**0.200**	**1.00**	**ug/L**	1	12/27/2012 11:16
Methane	**2,140**		**20.0**	**50.0**	**ug/L**	100	12/27/2012 12:11
ANIONS - EPA 300.0 (1993)		Method: E300					Analyst: JKP
Nitrogen, Nitrate (As N)	U		0.030	0.100	mg/L	1	12/19/2012 18:53
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	12/19/2012 18:53
Sulfate	U		0.20	0.500	mg/L	1	12/19/2012 18:53
Surr: Selenate (surr)	*104*			*85-115*	*%REC*	1	12/19/2012 18:53
TOC, DISSOLVED - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Dissolved	**30.2**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 16:44
TOTAL ORGANIC CARBON - SM5310C		Method: SM5310C					Analyst: IAB
Organic Carbon, Total	**27.2**		**2.0**	**10.0**	**mg/L**	20	12/29/2012 22:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *16-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: OB-2
Collection Date: 12/18/2012 05:20 PM

Work Order: 1212646
Lab ID: 1212646-05
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: **RSK-175**					Analyst: **NPI**
Ethane	U		0.200	1.00	ug/L	1	12/27/2012 11:26
Ethene	U		0.200	1.00	ug/L	1	12/27/2012 11:26
Methane	**4,850**		**40.0**	**100**	**ug/L**	200	12/27/2012 12:22
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	U		0.030	0.100	mg/L	1	12/19/2012 19:07
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	12/19/2012 19:07
Sulfate	**0.988**		**0.20**	**0.500**	**mg/L**	1	12/19/2012 19:07
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	1	12/19/2012 19:07
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**8.94**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 17:04
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**7.51**		**0.10**	**0.500**	**mg/L**	1	12/29/2012 22:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *27-Feb-13*

Client: EA Engineering, Science and Technology
Project: Jones Road
Sample ID: MW-1
Collection Date: 12/18/2012 04:08 PM

Work Order: 1212646
Lab ID: 1212646-06
Matrix: GROUNDWATER

Analyses	Result	Qual	SDL	MQL	Units	Dilution Factor	Date Analyzed
DISSOLVED GASES - RSK-175		Method: **RSK-175**					Analyst: **NPI**
Ethane	**1.08**		**0.200**	**1.00**	**ug/L**	1	12/27/2012 11:37
Ethene	**12.5**		**0.200**	**1.00**	**ug/L**	1	12/27/2012 11:37
Methane	**3,350**		**40.0**	**100**	**ug/L**	200	12/27/2012 12:33
ANIONS - EPA 300.0 (1993)		Method: **E300**					Analyst: **JKP**
Nitrogen, Nitrate (As N)	**0.190**		**0.030**	**0.100**	**mg/L**	1	12/19/2012 19:22
Nitrogen, Nitrite (As N)	U		0.030	0.100	mg/L	1	12/19/2012 19:22
Sulfate	**3.10**		**0.20**	**0.500**	**mg/L**	1	12/19/2012 19:22
Surr: Selenate (surr)	*110*			*85-115*	*%REC*	1	12/19/2012 19:22
TOC, DISSOLVED - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Dissolved	**8.48**	H	**0.20**	**1.00**	**mg/L**	2	2/20/2013 14:05
TOTAL ORGANIC CARBON - SM5310C		Method: **SM5310C**					Analyst: **IAB**
Organic Carbon, Total	**8.18**	H	**0.20**	**1.00**	**mg/L**	2	2/20/2013 14:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Dates Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

ALS Environmental

16-Feb-13

Work Order: 1212646
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R140207	**Test Name:** Anions - EPA 300.0 (1993)					
1212646-01D	IW-03	Groundwater	12/18/2012 10:42:00 AM			12/19/2012 05:40 PM
1212646-02D	SVE-02		12/18/2012 12:20:00 PM			12/19/2012 06:23 PM
1212646-03D	SVE-02 D					12/19/2012 06:38 PM
1212646-04D	OB-1		12/18/2012 2:59:00 PM			12/19/2012 06:53 PM
1212646-05D	OB-2		12/18/2012 5:20:00 PM			12/19/2012 07:07 PM
1212646-06D	MW-1		12/18/2012 4:08:00 PM			12/19/2012 07:22 PM
Batch ID R140446	**Test Name:** Dissolved Gases - RSK-175					
1212646-01A	IW-03	Groundwater	12/18/2012 10:42:00 AM			12/27/2012 10:04 AM
						12/27/2012 12:00 PM
1212646-02A	SVE-02		12/18/2012 12:20:00 PM			12/27/2012 10:53 AM
1212646-03A	SVE-02 D					12/27/2012 11:05 AM
1212646-04A	OB-1		12/18/2012 2:59:00 PM			12/27/2012 11:16 AM
						12/27/2012 12:11 PM
1212646-05A	OB-2		12/18/2012 5:20:00 PM			12/27/2012 11:26 AM
						12/27/2012 12:22 PM
1212646-06A	MW-1		12/18/2012 4:08:00 PM			12/27/2012 11:37 AM
						12/27/2012 12:33 PM
Batch ID R140615	**Test Name:** Total Organic Carbon - SM5310C					
1212646-01C	IW-03	Groundwater	12/18/2012 10:42:00 AM			12/29/2012 08:42 PM
1212646-02C	SVE-02		12/18/2012 12:20:00 PM			12/29/2012 09:27 PM
1212646-03C	SVE-02 D					12/29/2012 09:44 PM
1212646-04C	OB-1		12/18/2012 2:59:00 PM			12/29/2012 10:00 PM
1212646-05C	OB-2		12/18/2012 5:20:00 PM			12/29/2012 10:17 PM
1212646-06C	MW-1		12/18/2012 4:08:00 PM			12/29/2012 10:32 PM

Work Order: 1212646
Client: EA Engineering, Science and Technology
Project: Jones Road

DATES REPORT

Sample ID	Client Sample ID	Matrix	Collection Date	TCLP Date	Prep Date	Analysis Date
Batch ID R140617	**Test Name:** TOC, Dissolved - SM5310C					
1212646-01B	IW-03	Groundwater	12/18/2012 10:42:00 AM			12/29/2012 02:42 PM
1212646-02B	SVE-02		12/18/2012 12:20:00 PM			12/29/2012 03:33 PM
1212646-03B	SVE-02 D					12/29/2012 03:51 PM
1212646-04B	OB-1		12/18/2012 2:59:00 PM			12/29/2012 04:44 PM
1212646-05B	OB-2		12/18/2012 5:20:00 PM			12/29/2012 05:04 PM
1212646-06B	MW-1		12/18/2012 4:08:00 PM			12/29/2012 05:23 PM

Method Detection/Reporting Limits

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1212646
InstrumentID: FID-4
Test Code: RSK175
Test Number: RSK-175
Test Name: Dissolved Gases - RSK-175

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** ug/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Ethane	74-84-0	0.223	0.200	1.00
A	Ethene	74-85-1	0.207	0.200	1.00
A	Methane	74-82-8	0.127	0.200	0.500

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1212646
InstrumentID: ICS2100
Test Code: 300_W
Test Number: E300
Test Name: Anions - EPA 300.0 (1993)

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Nitrogen, Nitrate (As N)	14797-55-8	0.058	0.030	0.10
A	Nitrogen, Nitrite (As N)	14797-65-0	0.022	0.030	0.10
A	Sulfate	14808-79-8	0.56	0.20	0.50
S	Surr: Selenate (surr)	10102-23-5	0	0.10	0.10

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1212646
InstrumentID: TOC_02
Test Code: TOC_Diss_5310C
Test Number: SM5310C
Test Name: TOC, Dissolved - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Dissolved	DOC	0.30	0.10	0.50

ALS Environmental **Date:** 16-Feb-13

WorkOrder: 1212646
InstrumentID: TOC_02
Test Code: TOC_W 5310C
Test Number: SM5310C
Test Name: Total Organic Carbon - SM5310C

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS	MDL	Unadjusted MQL
A	Organic Carbon, Total	7440-44-0	0.30	0.10	0.50

QC Batch Summary Report

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

ALS Environmental

Date: 27-Feb-13

Client: EA Engineering, Science and Technology

Work Order: 1212646

Project: Jones Road

QC BATCH REPORT

Batch ID: **R140446** Instrument ID **FID-4** Method: **RSK-175**

MBLK Sample ID: **GBLKW1-121227-R140446** Units: **ug/L** Analysis Date: **12/27/2012 09:51 AM**

Client ID: Run ID: **FID-4_121227A** SeqNo: **3067718** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.0								
Ethene	U	1.0								
Methane	U	0.50								

LCS Sample ID: **GLCSW1-121227-R140446** Units: **ug/L** Analysis Date: **12/27/2012 09:21 AM**

Client ID: Run ID: **FID-4_121227A** SeqNo: **3067716** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	16.51	1.0	18	0	91.7	75-125	0			
Ethene	16.46	1.0	16.8	0	98	75-125	0			
Methane	10.24	0.50	9.62	0	106	75-125	0			

LCSD Sample ID: **GLCSDW1-121227-R140446** Units: **ug/L** Analysis Date: **12/27/2012 09:39 AM**

Client ID: Run ID: **FID-4_121227A** SeqNo: **3067717** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	16.56	1.0	18	0	92	75-125	16.51	0.285	30	
Ethene	16.39	1.0	16.8	0	97.6	75-125	16.46	0.383	30	
Methane	9.575	0.50	9.62	0	99.5	75-125	10.24	6.67	30	

MS Sample ID: **1212646-01AMS** Units: **ug/L** Analysis Date: **12/27/2012 10:28 AM**

Client ID: **IW-03** Run ID: **FID-4_121227A** SeqNo: **3067721** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	13.53	1.0	18	0	75.1	70-130	0			
Ethene	12.74	1.0	16.8	0	75.8	70-130	0			
Methane	339.2	0.50	9.62	238.7	1040	70-130	0			SEO

MSD Sample ID: **1212646-01AMSD** Units: **ug/L** Analysis Date: **12/27/2012 10:39 AM**

Client ID: **IW-03** Run ID: **FID-4_121227A** SeqNo: **3067722** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	13.63	1.0	18	0	75.7	70-130	13.53	0.758	30	
Ethene	13.09	1.0	16.8	0	77.9	70-130	12.74	2.73	30	
Methane	315	0.50	9.62	238.7	793	70-130	339.2	7.4	30	SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R140446** Instrument ID **FID-4** Method: **RSK-175**

The following samples were analyzed in this batch:

1212646-01A	1212646-02A	1212646-03A
1212646-04A	1212646-05A	1212646-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R140207** Instrument ID **ICS2100** Method: **E300** **(Dissolve)**

MBLK Sample ID: **WBLKW2-R140207** Units: **mg/L** Analysis Date: **12/19/2012 05:11 PM**

Client ID: Run ID: **ICS2100_121219A** SeqNo: **3061663** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	U	0.10								
Nitrogen, Nitrite (As N)	U	0.10								
Sulfate	U	0.50								
Surr: Selenate (surr)	5.28	0.10	*5*	0	*106*	*85-115*	0			

LCS Sample ID: **WLCSW2-R140207** Units: **mg/L** Analysis Date: **12/19/2012 05:25 PM**

Client ID: Run ID: **ICS2100_121219A** SeqNo: **3061665** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	3.836	0.10	4	0	95.9	90-110	0			
Nitrogen, Nitrite (As N)	4.269	0.10	4	0	107	90-110	0			
Sulfate	19.52	0.50	20	0	97.6	90-110	0			
Surr: Selenate (surr)	5.261	0.10	*5*	0	*105*	*85-115*	0			

MS Sample ID: **1212646-01DMS** Units: **mg/L** Analysis Date: **12/19/2012 05:54 PM**

Client ID: **IW-03** Run ID: **ICS2100_121219A** SeqNo: **3061670** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	4.118	0.10	2	2.241	93.8	80-120	0			
Nitrogen, Nitrite (As N)	2.36	0.10	2	0	118	80-120	0			
Sulfate	22.16	0.50	10	12.8	93.6	80-120	0			
Surr: Selenate (surr)	4.802	0.10	*5*	0	*96*	*85-115*	0			

MSD Sample ID: **1212646-01DMSD** Units: **mg/L** Analysis Date: **12/19/2012 06:09 PM**

Client ID: **IW-03** Run ID: **ICS2100_121219A** SeqNo: **3061672** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Nitrogen, Nitrate (As N)	4.043	0.10	2	2.241	90.1	80-120	4.118	1.84	20	
Nitrogen, Nitrite (As N)	2.262	0.10	2	0	113	80-120	2.36	4.24	20	
Sulfate	21.75	0.50	10	12.8	89.5	80-120	22.16	1.89	20	
Surr: Selenate (surr)	4.709	0.10	*5*	0	*94.2*	*85-115*	4.802	*1.96*	*20*	

The following samples were analyzed in this batch:

1212646-01D	1212646-02D	1212646-03D
1212646-04D	1212646-05D	1212646-06D

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R140615** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW2-122912-R140615** Units: **mg/L** Analysis Date: **12/29/2012 08:08 PM**

Client ID: Run ID: **TOC_02_121229B** SeqNo: **3070988** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.50								

LCS Sample ID: **WLCSW2-122912-R140615** Units: **mg/L** Analysis Date: **12/29/2012 08:25 PM**

Client ID: Run ID: **TOC_02_121229B** SeqNo: **3070990** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	8.78	0.50	10	0	87.8	80-120	0			

MS Sample ID: **1212646-01CMS** Units: **mg/L** Analysis Date: **12/29/2012 08:57 PM**

Client ID: **IW-03** Run ID: **TOC_02_121229B** SeqNo: **3070994** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.05	0.50	10	0.4064	106	80-120	0			

MSD Sample ID: **1212646-01CMSD** Units: **mg/L** Analysis Date: **12/29/2012 09:12 PM**

Client ID: **IW-03** Run ID: **TOC_02_121229B** SeqNo: **3070996** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	11.32	0.50	10	0.4064	109	80-120	11.05	2.41	20	

The following samples were analyzed in this batch:

1212646-01C	1212646-02C	1212646-04C
1212646-05C		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R140617** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW1-122912-R140617** Units: **mg/L** Analysis Date: **12/29/2012 01:20 PM**

Client ID: Run ID: **TOC_02_121229C** SeqNo: **3071007** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	U	0.50								

LCS Sample ID: **WLCSW1-122912-R140617** Units: **mg/L** Analysis Date: **12/29/2012 01:37 PM**

Client ID: Run ID: **TOC_02_121229C** SeqNo: **3071008** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.085	0.50	10	0	90.8	80-120	0			

LCSD Sample ID: **WLCSDW1-122912-R140617** Units: **mg/L** Analysis Date: **12/29/2012 01:52 PM**

Client ID: Run ID: **TOC_02_121229C** SeqNo: **3071009** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	9.161	0.50	10	0	91.6	80-120	9.085	0.833	20	

MS Sample ID: **1212646-01BMS** Units: **mg/L** Analysis Date: **12/29/2012 02:59 PM**

Client ID: **IW-03** Run ID: **TOC_02_121229C** SeqNo: **3071011** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	11.64	0.50	10	0.7362	109	80-120	0			

MSD Sample ID: **1212646-01BMSD** Units: **mg/L** Analysis Date: **12/29/2012 03:15 PM**

Client ID: **IW-03** Run ID: **TOC_02_121229C** SeqNo: **3071012** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	12.21	0.50	10	0.7362	115	80-120	11.64	4.78	20	

The following samples were analyzed in this batch:

1212646-01B	1212646-02B	1212646-04B
1212646-05B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R143085** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW-022013-R143085** Units: **mg/L** Analysis Date: **2/20/2013 12:12 PM**

Client ID: Run ID: **TOC_02_130220A** SeqNo: **3120129** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	U	0.50								

LCS Sample ID: **WLCSW-R143085** Units: **mg/L** Analysis Date: **2/20/2013 12:30 PM**

Client ID: Run ID: **TOC_02_130220A** SeqNo: **3120130** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	8.429	0.50	10	0	84.3	80-120	0			

LCSD Sample ID: **WLCSDW-R143085** Units: **mg/L** Analysis Date: **2/20/2013 12:48 PM**

Client ID: Run ID: **TOC_02_130220A** SeqNo: **3120131** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	8.618	0.50	10	0	86.2	80-120	8.429	2.22	20	

DUP Sample ID: **1212646-03Z** Units: **mg/L** Analysis Date: **2/20/2013 01:45 PM**

Client ID: **SVE-02 D** Run ID: **TOC_02_130220A** SeqNo: **3120134** Prep Date: DF: **2**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Dissolved	1.139	1.0	0	0	0		0.9594	17.2		

The following samples were analyzed in this batch: 1212646-03B 1212646-06B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: EA Engineering, Science and Technology
Work Order: 1212646
Project: Jones Road

QC BATCH REPORT

Batch ID: **R143086** Instrument ID **TOC_02** Method: **SM5310C** **(Dissolve)**

MBLK Sample ID: **WBLKW-022013-R143086** Units: **mg/L** Analysis Date: **2/20/2013 12:12 PM**

Client ID: Run ID: **TOC_02_130220B** SeqNo: **3120142** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	U	0.50								

LCS Sample ID: **WLCSW-R143086** Units: **mg/L** Analysis Date: **2/20/2013 12:30 PM**

Client ID: Run ID: **TOC_02_130220B** SeqNo: **3120143** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	8.429	0.50	10	0	84.3	80-120	0			

LCSD Sample ID: **WLCSDW-R143086** Units: **mg/L** Analysis Date: **2/20/2013 12:48 PM**

Client ID: Run ID: **TOC_02_130220B** SeqNo: **3120144** Prep Date: DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	8.618	0.50	10	0	86.2	80-120	8.429	2.22	20	

DUP Sample ID: **1212646-03CDUP** Units: **mg/L** Analysis Date: **2/20/2013 01:45 PM**

Client ID: **SVE-02 D** Run ID: **TOC_02_130220B** SeqNo: **3120147** Prep Date: DF: **2**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	1.139	1.0	0	0	0		0.9594	17.2	20	H

The following samples were analyzed in this batch: 1212646-03C 1212646-06C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Dissolved Gases (RSK 175) Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

FID04-Logbook

Batch: 1125
Date: 10-Jan-12
Method: RSK 175
Comments: Target Sequence 120110

Analyst: Nosa Izekor
Reviewer: Grace Kamau
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	01-10-2012 10:52	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	ICAL1	CALIB_1	01-10-2012 11:27	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	ICAL2	CALIB_2	01-10-2012 11:44	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	ICAL3	CALIB_3	01-10-2012 11:56	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	ICAL4	CALIB_4	01-10-2012 12:09	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	ICAL5	CALIB_5	01-10-2012 12:26	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	ICAL6	CALIB_6	01-10-2012 12:40	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	ICV	METHSPIKE	01-10-2012 12:56	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	GLCSW1-120110	LCS	01-10-2012 13:08	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	GLCSDW1-120110	LCSD	01-10-2012 13:21	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	GBLKW1-120110	MBLK	01-10-2012 14:03	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1201086-22A	SAMP	01-10-2012 14:17	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1201086-23A	SAMP	01-10-2012 14:27	1.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1201086-24A	SAMP	01-10-2012 15:36	1.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1201086-25A	SAMP	01-10-2012 15:51	1.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1201086-26A	SAMP	01-10-2012 16:05	1.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	1201086-27A	SAMP	01-10-2012 16:18	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA
18	1201195-13A	SAMP	01-10-2012 16:30	1.00	0.00 mL	0.00 mL	018.D	Liquid	☒	NA
19	CCV	CCV	01-10-2012 16:41	1.00	0.00 mL	0.00 mL	019.D	Liquid	☒	NA

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FORM 3
WATER GASES METHOD SPIKE RECOVERY

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1212646

Matrix Spike - ENG SC Sample No.: ICV

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE AMOUNT (ug/L)	% REC #	QC. LIMITS REC.
Methane	9.620	9.149	95	75-125
Ethane	18.000	17.184	95	75-125
Ethene	16.800	16.216	96	75-125

Column to be used to flag recovery and RPD values with an asterisk
* Values outside of QC limits

COMMENTS: _____

FORM III GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1212646

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

LAB FILE ID: RF1: 002 RF5: 003 RF10: 004
RF25: 005 RF50: 006

COMPOUND	RF1	RF5	RF10	RF25	RF50
Methane	851.948	819.792	841.039	725.780	693.229
Ethane	786.704	867.867	917.728	762.389	747.978
Ethene	602.374	716.320	735.163	622.917	614.095

FORM VI GASES

FORM 6
GASES INITIAL CALIBRATION DATA

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1212646

Instrument ID: FID-4 Calibration Date(s): 01/10/12 01/10/12

Column: RTX-PLOT ID: 0.53 (mm) Calibration Time(s): 1127 1240

RF100: 007

COMPOUND	RF100	CURVE	COEFFICENT A1	%RSD OR R^2
Methane	709.117	AVRG	773.484059	9.3
Ethane	757.756	AVRG	806.737022	8.6
Ethene	624.748	AVRG	652.602827	8.8

FORM VI GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\002.D
Lab Smp Id: ICAL1 Client Smp ID: ICAL1
Inj Date : 10-JAN-2012 11:27
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL1;ICAL1
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:27 Cal File: 002.D
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.300	2.283	0.017	328	0.38500	0.385(aM)
2 Ethene	3.630	3.643	-0.013	406	0.67400	0.674(aM)
3 Ethane	3.976	3.983	-0.007	568	0.72200	0.722(aM)

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\002.D

Date : 10-JAN-2012 11:27

Client ID: ICAL1

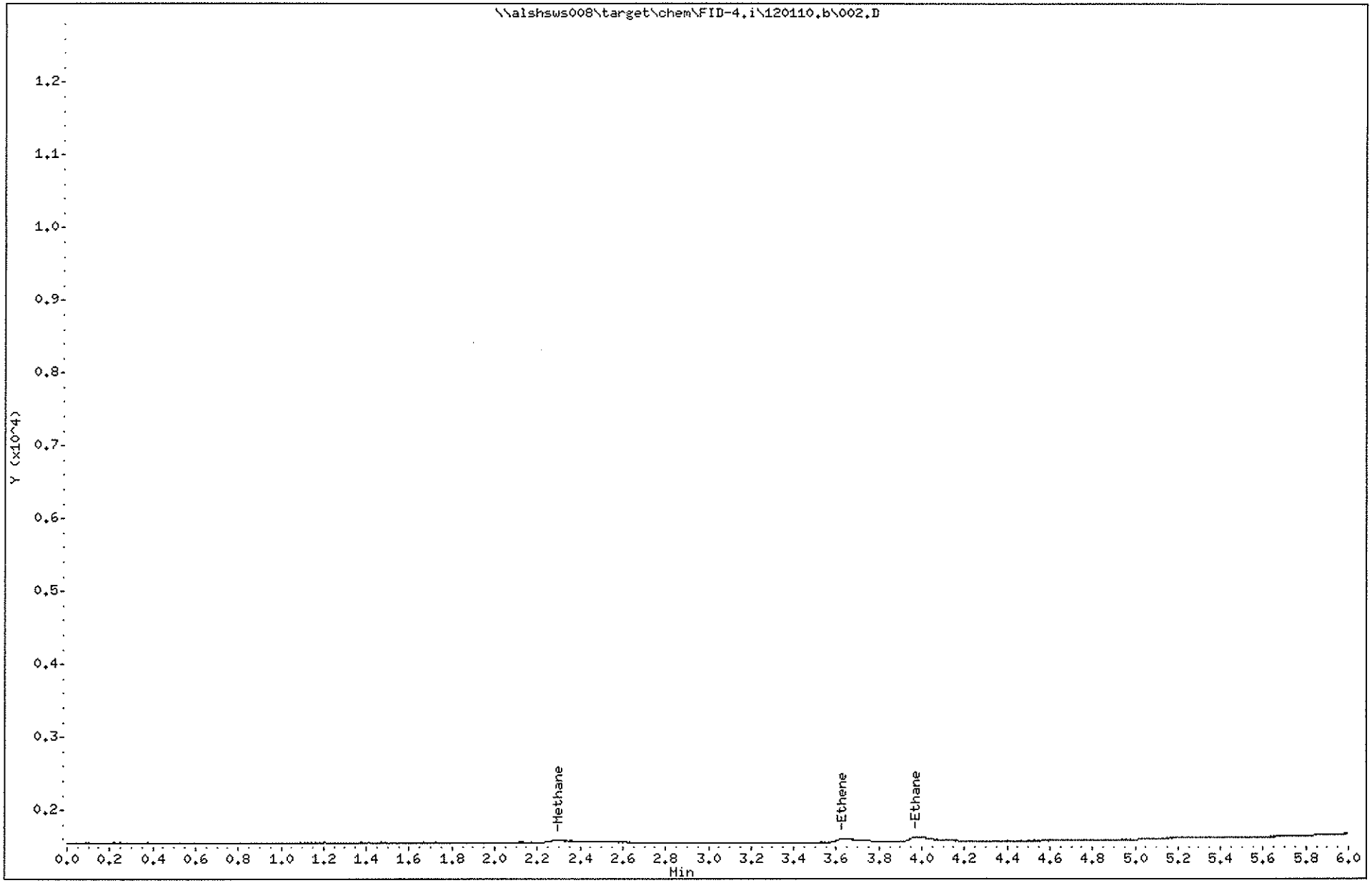
Instrument: FID-4.i

Sample Info: ICAL1;ICAL1

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Lab Smp Id: ICAL2 Client Smp ID: ICAL2
Inj Date : 10-JAN-2012 11:44
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL2;ICAL2
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:44 Cal File: 003.D
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.273	2.283	-0.010	1574	1.92000	1.883
2 Ethene	3.630	3.643	-0.013	2414	3.37000	3.661
3 Ethane	3.966	3.983	-0.017	3133	3.61000	3.787

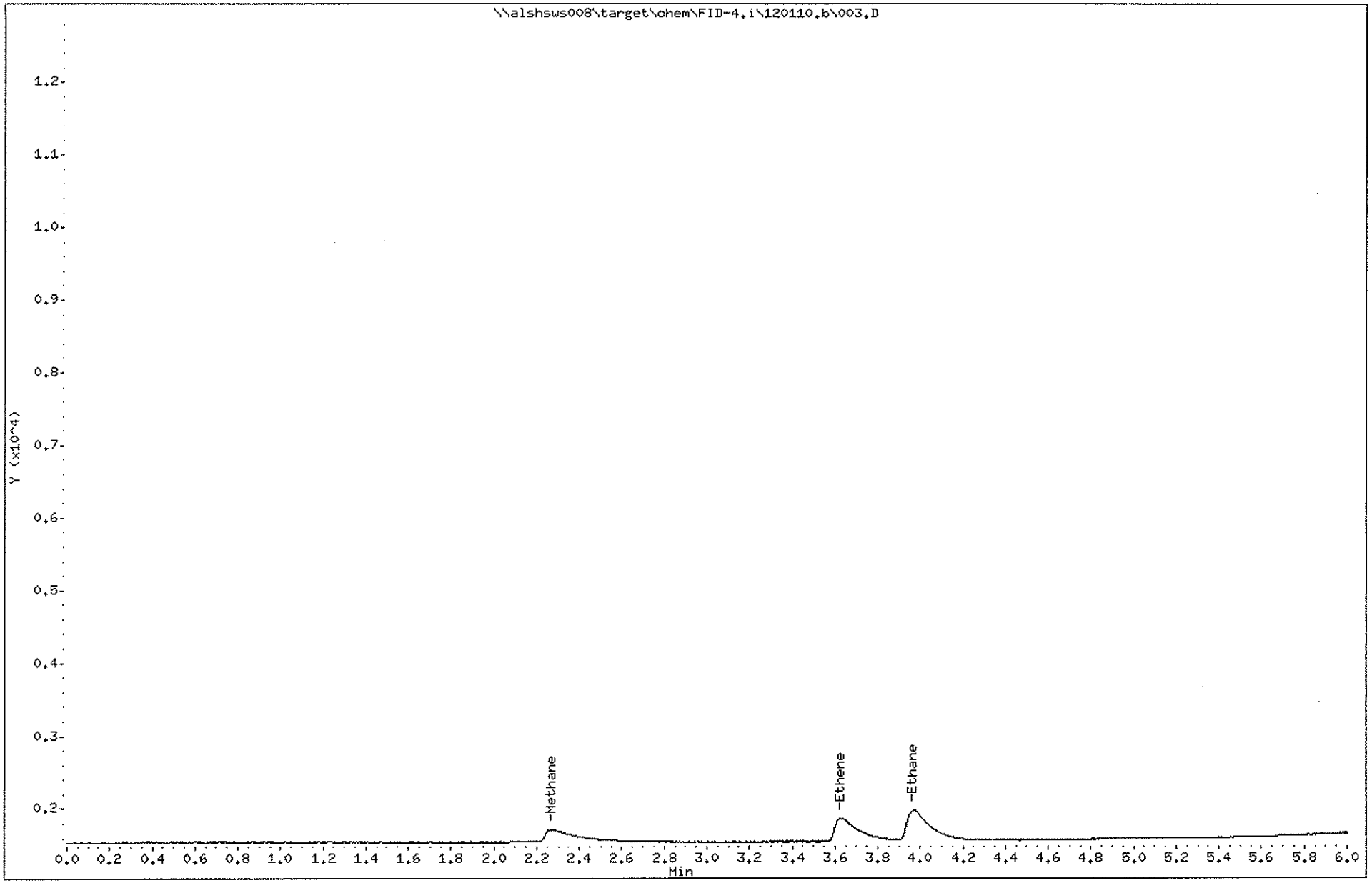
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\003.D
Date : 10-JAN-2012 11:44
Client ID: ICAL2
Sample Info: ICAL2;ICAL2

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\004.D
Lab Smp Id: ICAL3 Client Smp ID: ICAL3
Inj Date : 10-JAN-2012 11:56
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL3;ICAL3
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 11:56 Cal File: 004.D
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.283	2.283	0.000	3238	3.85000	3.865
2 Ethene	3.643	3.643	0.000	4955	6.74000	7.237(M)
3 Ethane	3.983	3.983	0.000	6626	7.22000	7.727(M)

QC Flag Legend

M - Compound response manually integrated.

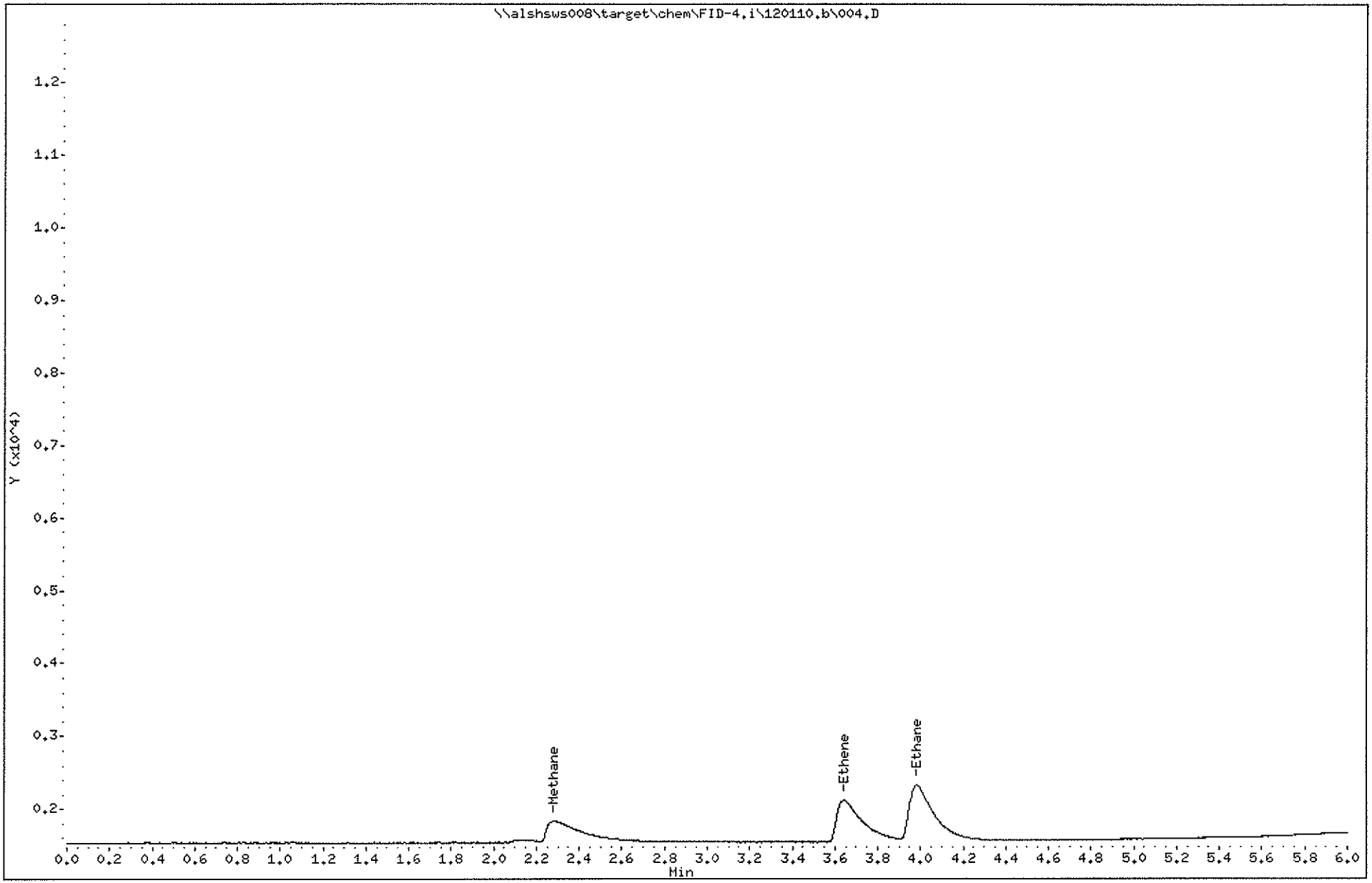
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\004.D
Date : 10-JAN-2012 11:56
Client ID: ICAL3
Sample Info: ICAL3;ICAL3

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\005.D
Lab Smp Id: ICAL4 Client Smp ID: ICAL4
Inj Date : 10-JAN-2012 12:09
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL4;ICAL4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:09 Cal File: 005.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

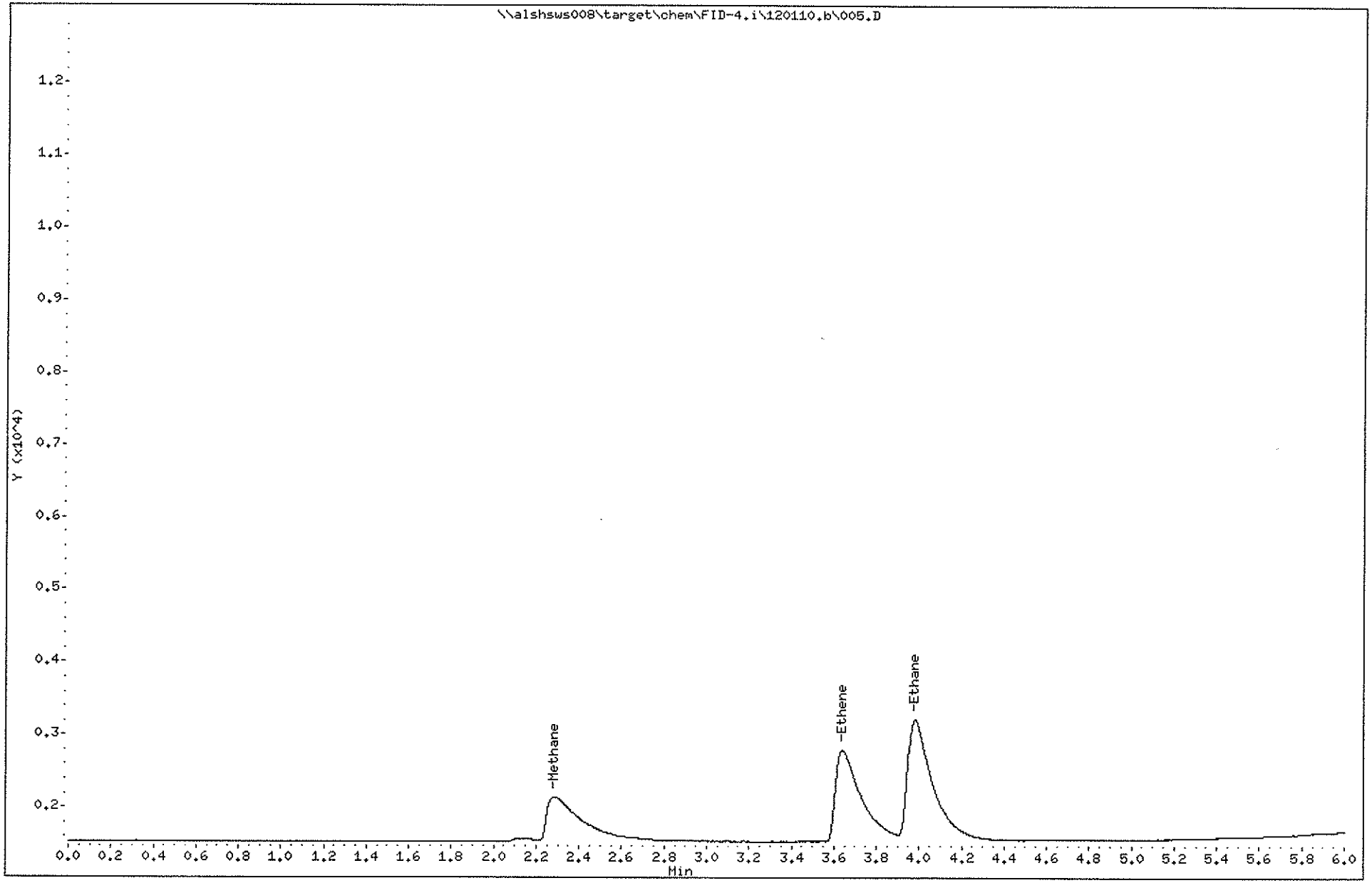
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.286	2.283	0.003	6982	9.62000	8.623
2 Ethene	3.640	3.643	-0.003	10465	16.8000	15.638
3 Ethane	3.980	3.983	-0.003	13723	18.0000	16.460

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\005.D
Date : 10-JAN-2012 12:09
Client ID: ICAL4
Sample Info: ICAL4;ICAL4

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Lab Smp Id: ICAL5 Client Smp ID: ICAL5
Inj Date : 10-JAN-2012 12:26
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL5;ICAL5
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:26 Cal File: 006.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.293	2.283	0.010	13310	19.2000	16.926
2 Ethene	3.643	3.643	0.000	20695	33.7000	31.443
3 Ethane	3.983	3.983	0.000	27002	36.1000	33.069

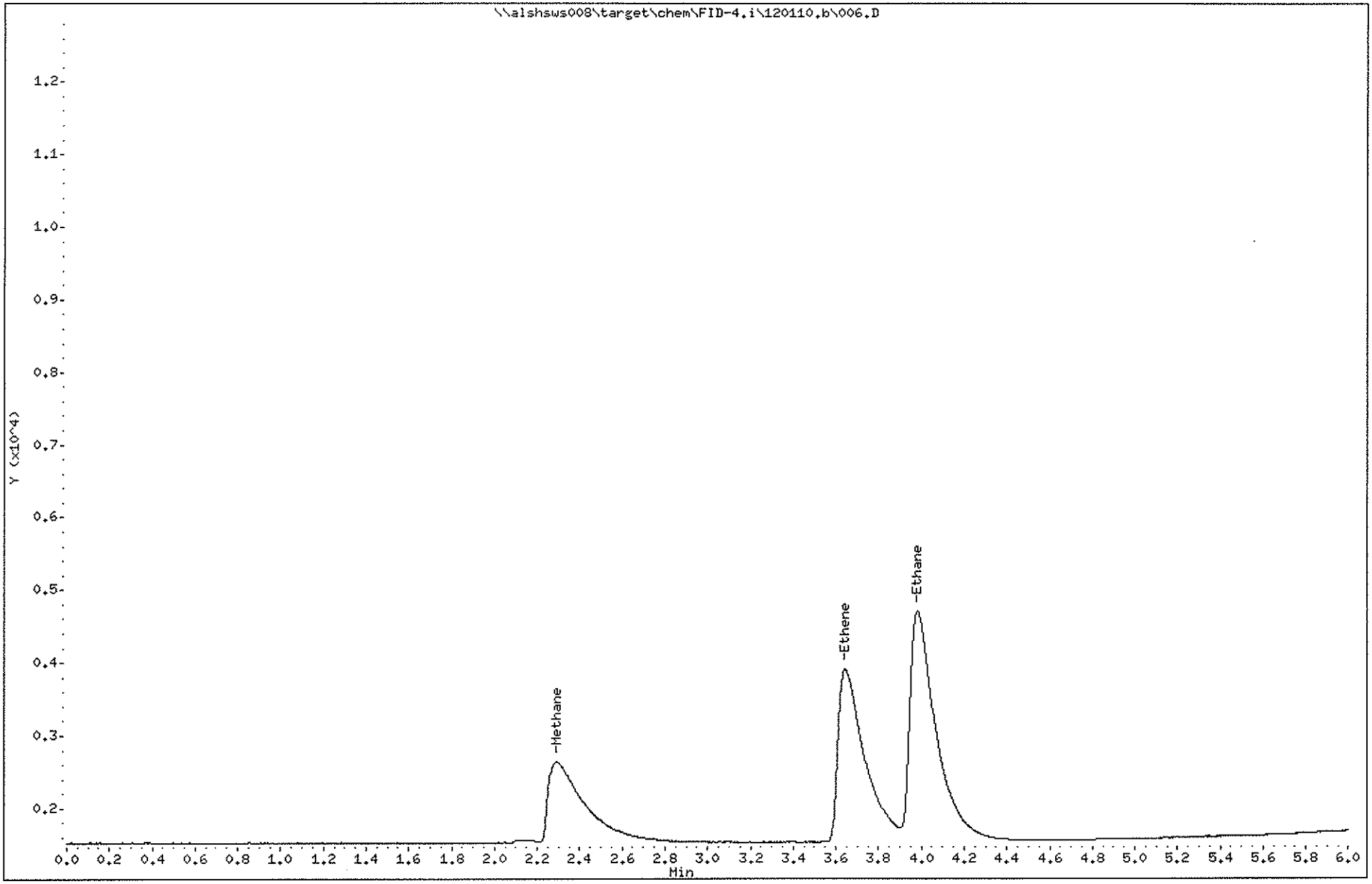
Data File: \\alshsws008\target\chem\FID-4.i\120110.b\006.D
Date : 10-JAN-2012 12:26
Client ID: ICAL5
Sample Info: ICAL5;ICAL5

Instrument: FID-4.i

Operator: NPI

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Lab Smp Id: ICAL6 Client Smp ID: ICAL6
Inj Date : 10-JAN-2012 12:40
Operator : NPI Inst ID: FID-4.i
Smp Info : ICAL6;ICAL6
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

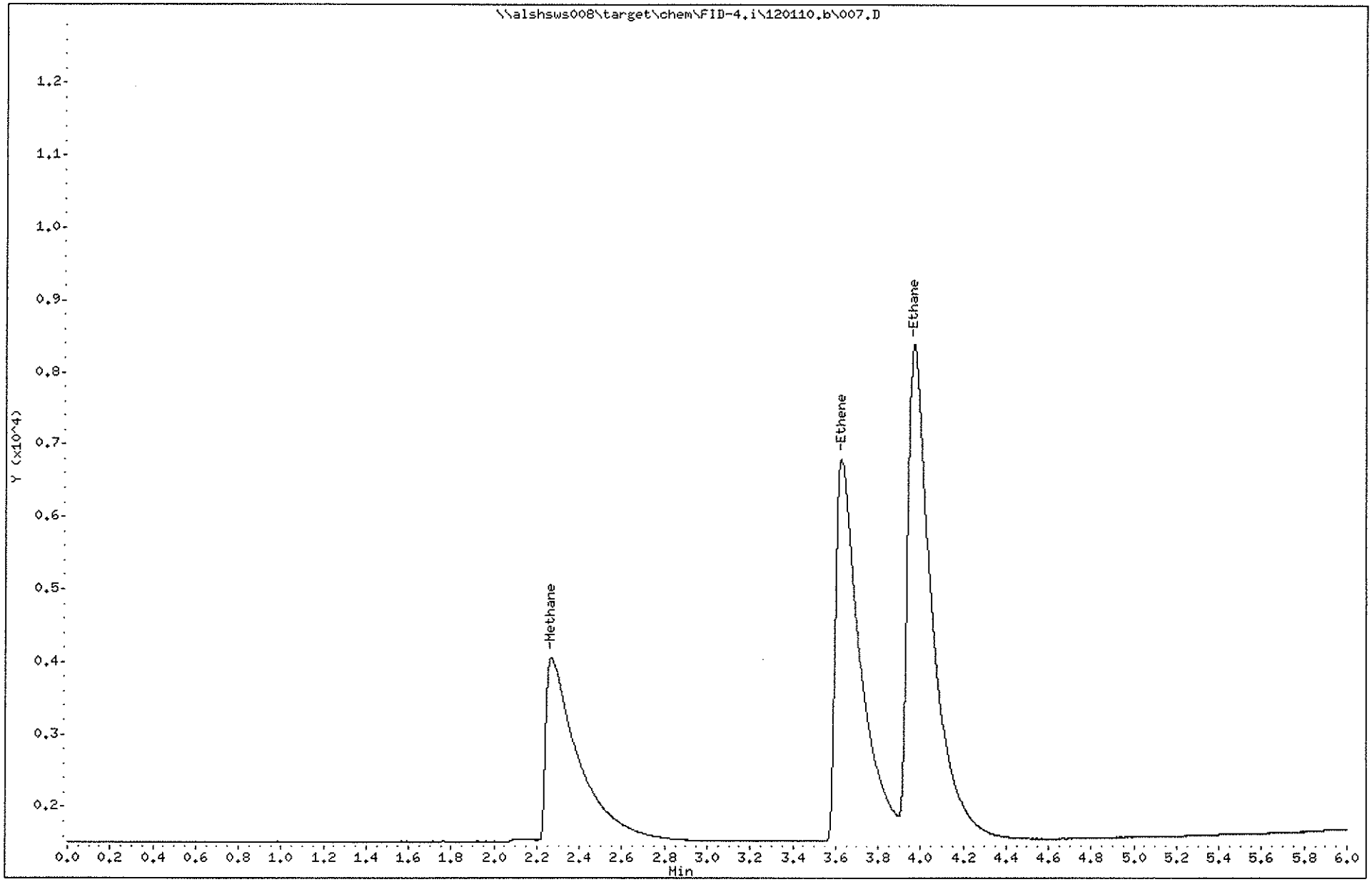
Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	2.266	2.283	-0.017	27301	38.5000	35.296
2 Ethene	3.626	3.643	-0.017	42108	67.4000	64.523
3 Ethane	3.966	3.983	-0.017	54710	72.2000	67.816

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\007.D
Date : 10-JAN-2012 12:40
Client ID: ICAL6
Sample Info: ICAL6;ICAL6

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 10-JAN-2012 12:56
Operator : NPI Inst ID: FID-4.i
Smp Info : ICV;ICV
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\120110.b\rsk175.m
Meth Date : 03-Jan-2013 14:30 kbrown Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 8 QC Sample: METHSPIKE
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

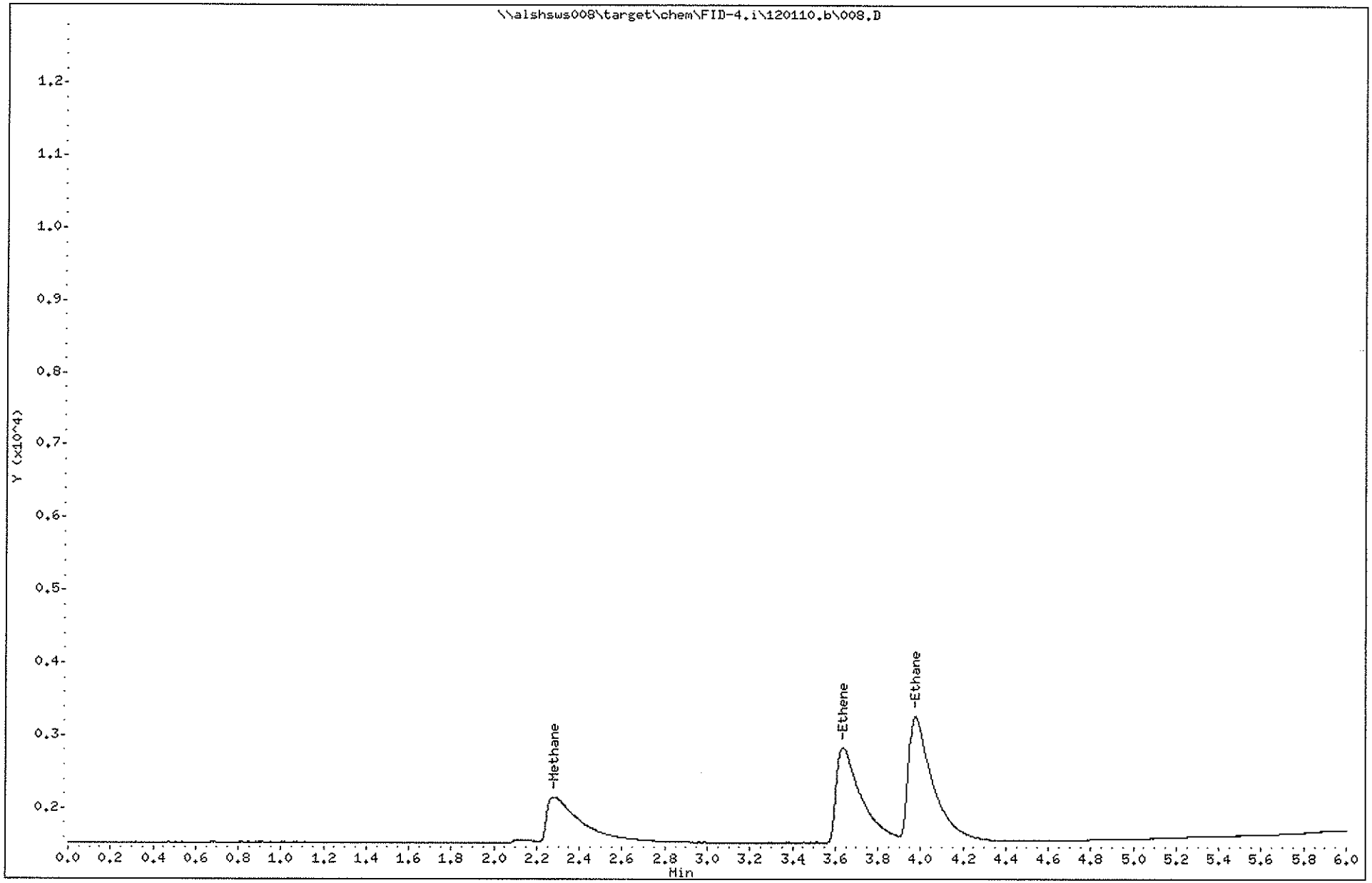
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.283	2.283	0.000	7077	9.14951	9.149
2 Ethene	3.636	3.643	-0.007	10583	16.2166	16.216
3 Ethane	3.976	3.983	-0.007	13863	17.1840	17.184

Data File: \\alshsws008\target\chem\FID-4.i\120110.b\008.D
Date : 10-JAN-2012 12:56
Client ID: ICV
Sample Info: ICV;ICV

Instrument: FID-4.i

Operator: NPI
Column diameter: 0.53

Column phase: Rtx-PLOT



FID04-Logbook

Batch: 7100
Date: 27-Dec-12
Method: SW846-RSK 175
Comments: Target Sequence 121227

Analyst: Nosa Izekor
Reviewer:
Laboratory: Houston

#	Samp ID	Type	Analyzed	DF	Init Wt/Vol	Final Vol	File ID	Matrix	Status	pH
1	CCV	CCV	12-27-2012 09:01	1.00	0.00 mL	0.00 mL	001.D	Liquid	☒	NA
2	GLCSW1-121227	LCS	12-27-2012 09:21	1.00	0.00 mL	0.00 mL	002.D	Liquid	☒	NA
3	GLCSDW1-121227	LCSD	12-27-2012 09:39	1.00	0.00 mL	0.00 mL	003.D	Liquid	☒	NA
4	GBLKW1-121227	MBLK	12-27-2012 09:51	1.00	0.00 mL	0.00 mL	004.D	Liquid	☒	NA
5	1212646-01A	SAMP	12-27-2012 10:04	1.00	0.00 mL	0.00 mL	005.D	Liquid	☒	NA
6	1212646-01AMS	MS	12-27-2012 10:28	1.00	0.00 mL	0.00 mL	006.D	Liquid	☒	NA
7	1212646-01AMSD	MSD	12-27-2012 10:39	1.00	0.00 mL	0.00 mL	007.D	Liquid	☒	NA
8	1212646-02A	SAMP	12-27-2012 10:53	1.00	0.00 mL	0.00 mL	008.D	Liquid	☒	NA
9	1212646-03A	SAMP	12-27-2012 11:05	1.00	0.00 mL	0.00 mL	009.D	Liquid	☒	NA
10	1212646-04A	SAMP	12-27-2012 11:16	1.00	0.00 mL	0.00 mL	010.D	Liquid	☒	NA
11	1212646-05A	SAMP	12-27-2012 11:26	1.00	0.00 mL	0.00 mL	011.D	Liquid	☒	NA
12	1212646-06A	SAMP	12-27-2012 11:37	1.00	0.00 mL	0.00 mL	012.D	Liquid	☒	NA
13	1212646-01A	SAMP	12-27-2012 12:00	10.00	0.00 mL	0.00 mL	013.D	Liquid	☒	NA
14	1212646-04A	SAMP	12-27-2012 12:11	100.00	0.00 mL	0.00 mL	014.D	Liquid	☒	NA
15	1212646-05A	SAMP	12-27-2012 12:22	200.00	0.00 mL	0.00 mL	015.D	Liquid	☒	NA
16	1212646-06A	SAMP	12-27-2012 12:33	200.00	0.00 mL	0.00 mL	016.D	Liquid	☒	NA
17	CCV	CCV	12-27-2012 12:44	1.00	0.00 mL	0.00 mL	017.D	Liquid	☒	NA

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FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1212646

Instrument ID: FID-4 Calibration Date: 12/27/12 Time: 0901

Lab File ID: 001 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	808.940	0.01	4.6	25.0
Ethane	806.737	772.444	0.01	4.2	25.0
Ethene	652.603	672.619	0.01	3.1	25.0

FORM VII GASES

FORM 7
GASES CONTINUING CALIBRATION CHECK

Lab Name: ALS LABORATORY GROUP Contract:

Lab Code: ALSHS Case No.: SAS No.: SDG No.: 1212646

Instrument ID: FID-4 Calibration Date: 12/27/12 Time: 1244

Lab File ID: 017 Init. Calib. Date(s): 01/10/12 01/10/12

Init. Calib. Times: 1127 1240

GC Column: RTX-PLOT ID: 0.53 (mm)

COMPOUND	$\overline{RRF}$	RRF25	MIN RRF	%D	MAX %D
Methane	773.484	722.973	0.01	6.5	25.0
Ethane	806.737	705.944	0.01	12.5	25.0
Ethene	652.603	612.857	0.01	6.1	25.0

FORM VII GASES

ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\001.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-DEC-2012 09:01
Operator : JA Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.983	1.986	-0.003	7782	9.62000	10.060
2 Ethene	3.290	3.303	-0.013	11300	16.8000	17.315
3 Ethane	3.630	3.640	-0.010	13904	18.0000	17.234

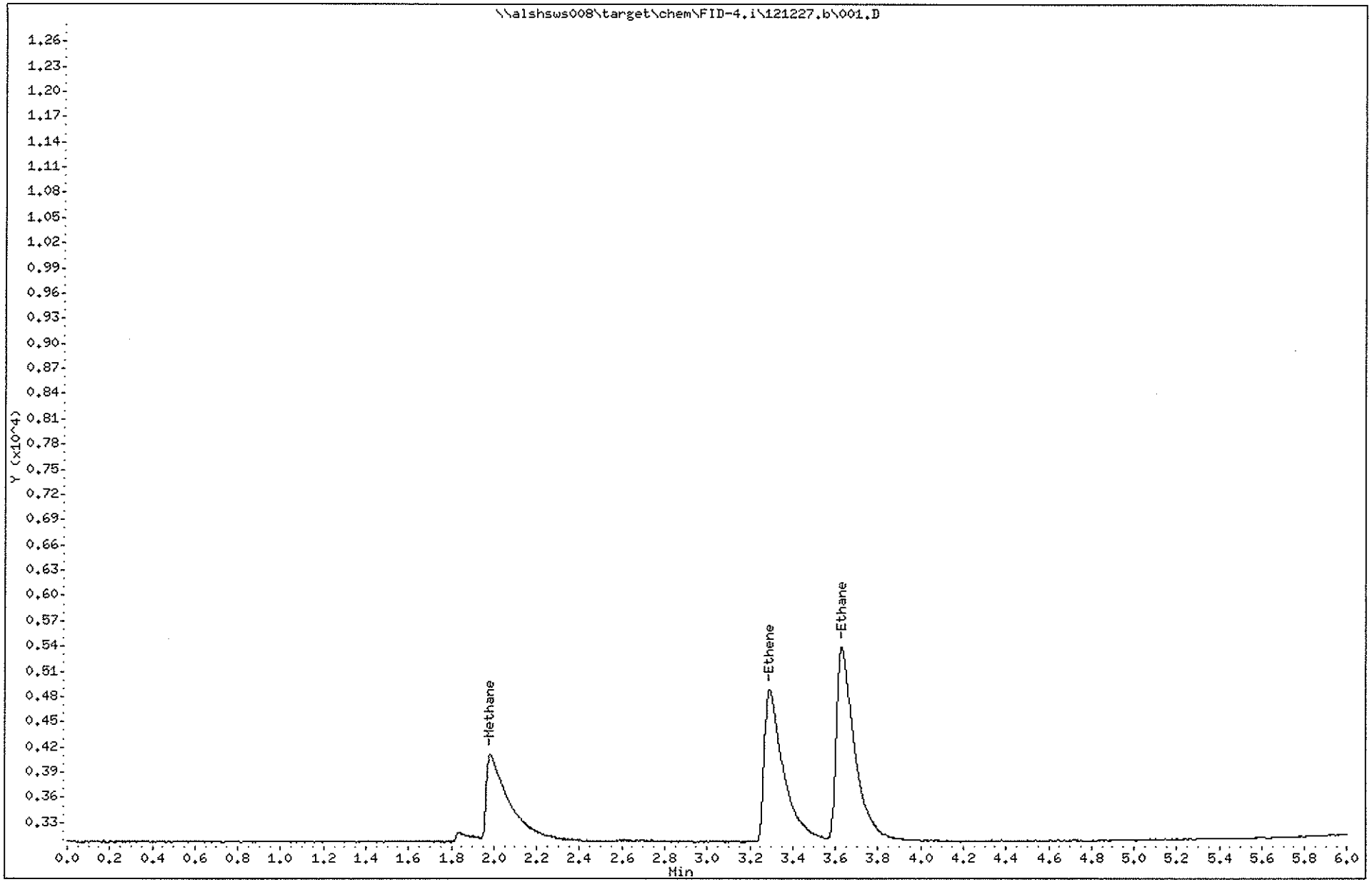
Data File: \\alshsws008\target\chem\FID-4.i\121227.b\001.D
Date : 27-DEC-2012 09:01
Client ID: CCV
Sample Info: CCV;CCV;2;4

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

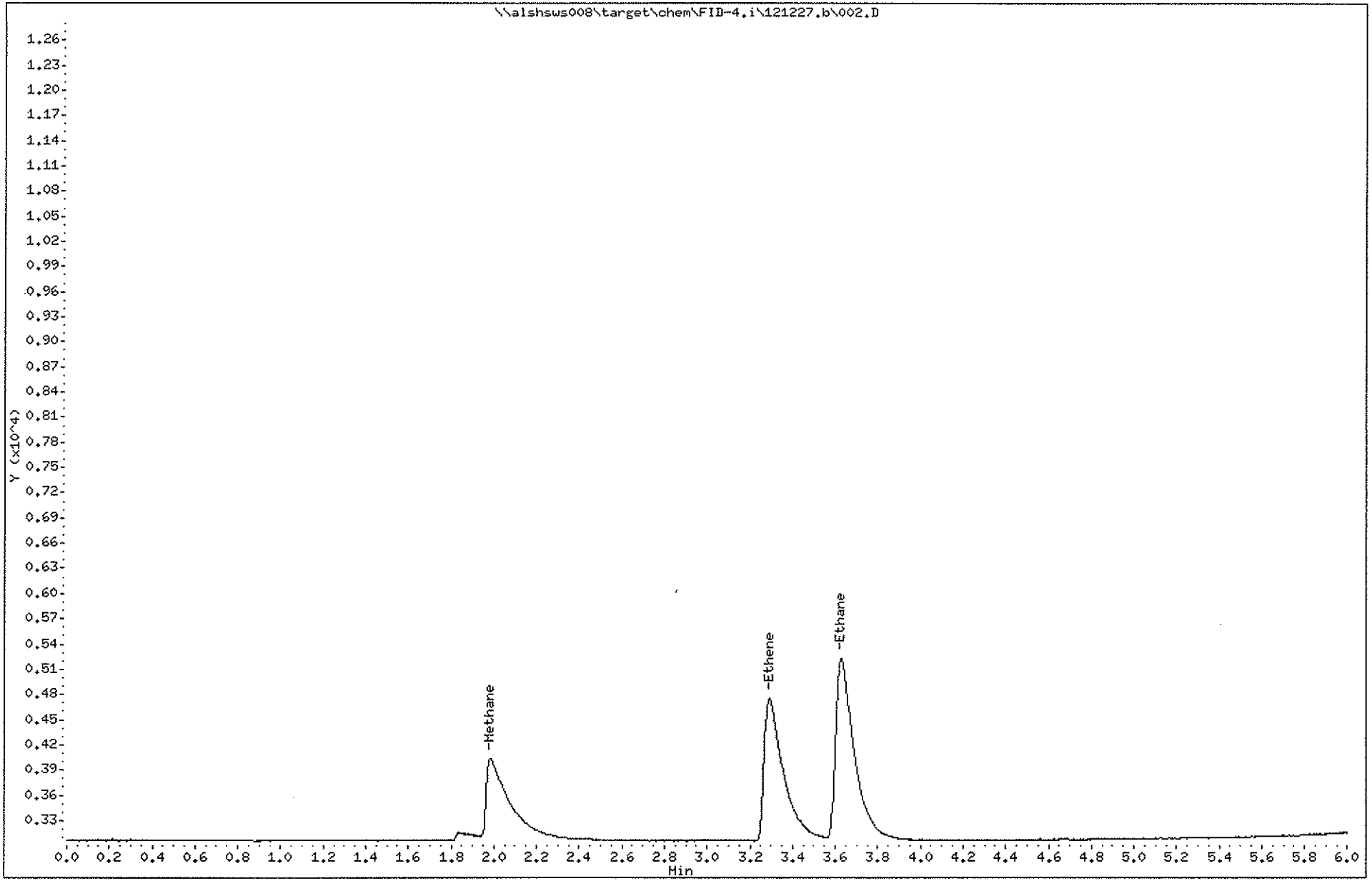
Data file : \\alshsws008\target\chem\FID-4.i\121227.b\002.D
Lab Smp Id: GLCSW1-121227 Client Smp ID: GLCSW1-121227
Inj Date : 27-DEC-2012 09:21
Operator : JA Inst ID: FID-4.i
Smp Info : GLCSW1-121227;GLCSW1-121227;3;;LCS
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	1.983	1.986	-0.003	7917	10.2355	10.235
2 Ethene	3.290	3.303	-0.013	10739	16.4556	16.455
3 Ethane	3.626	3.640	-0.014	13322	16.5134	16.513

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\002.D
Date : 27-DEC-2012 09:21
Client ID: GLCSW1-121227
Sample Info: GLCSW1-121227;GLCSW1-121227;3;;LCS

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

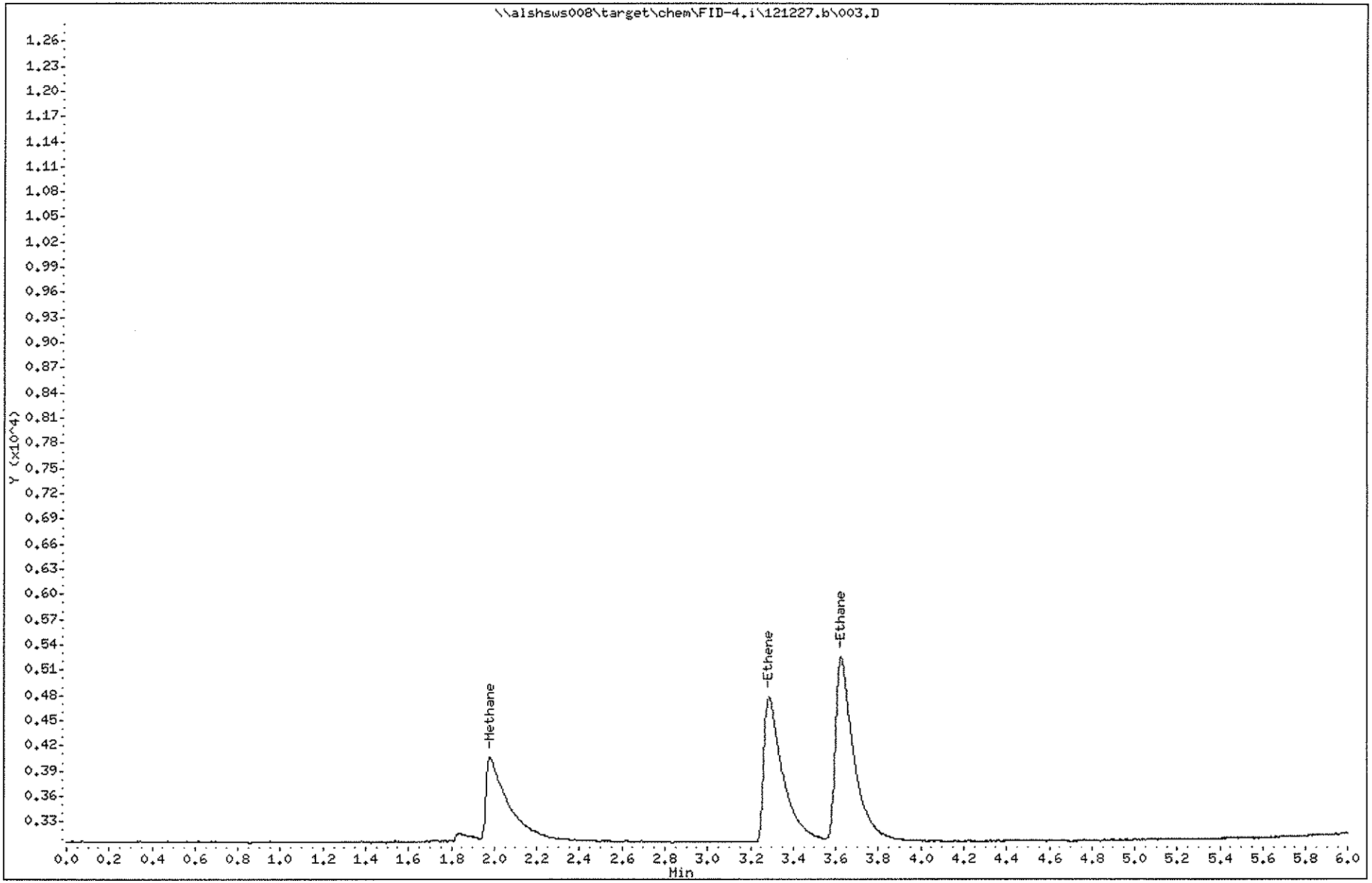
Data file : \\alshsws008\target\chem\FID-4.i\121227.b\003.D
Lab Smp Id: GLCSDW1-121227 Client Smp ID: GLCSDW1-121227
Inj Date : 27-DEC-2012 09:39
Operator : JA Inst ID: FID-4.i
Smp Info : GLCSDW1-121227;GLCSDW1-121227;3;;LCSD
Misc Info : ;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 3 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	1.980	1.986	-0.006	7406	9.57486	9.574
2 Ethene	3.286	3.303	-0.017	10698	16.3928	16.392
3 Ethane	3.623	3.640	-0.017	13360	16.5605	16.560

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\003.D
Date : 27-DEC-2012 09:39
Client ID: GLCSDW1-121227
Sample Info: GLCSDW1-121227;GLCSDW1-121227;3;;LCSD

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\004.D
Lab Smp Id: GBLKW1-121227 Client Smp ID: GBLKW1-121227
Inj Date : 27-DEC-2012 09:51
Operator : JA Inst ID: FID-4.i
Smp Info : GBLKW1-121227;GBLKW1-121227;3;;BLANK
Misc Info : 1212566;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 4 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

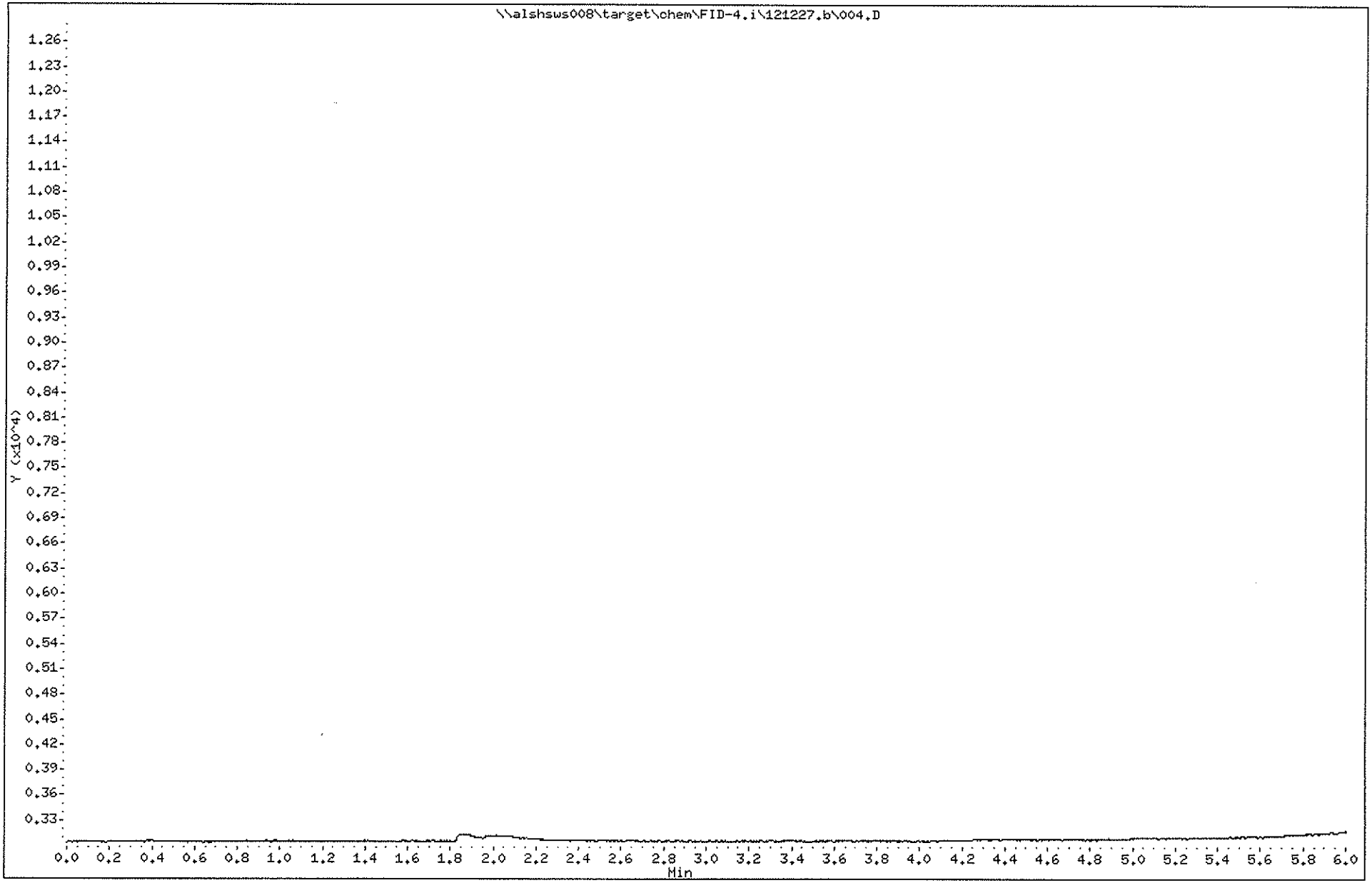
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\004.D
Date : 27-DEC-2012 09:51
Client ID: GBLKW1-121227
Sample Info: GBLKW1-121227;GBLKW1-121227;3;;BLANK

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\005.D
Lab Smp Id: 1212646-01A Client Smp ID: 1212646-01A
Inj Date : 27-DEC-2012 10:04
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-01A;1212646-01A;;;
Misc Info : 1212646;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

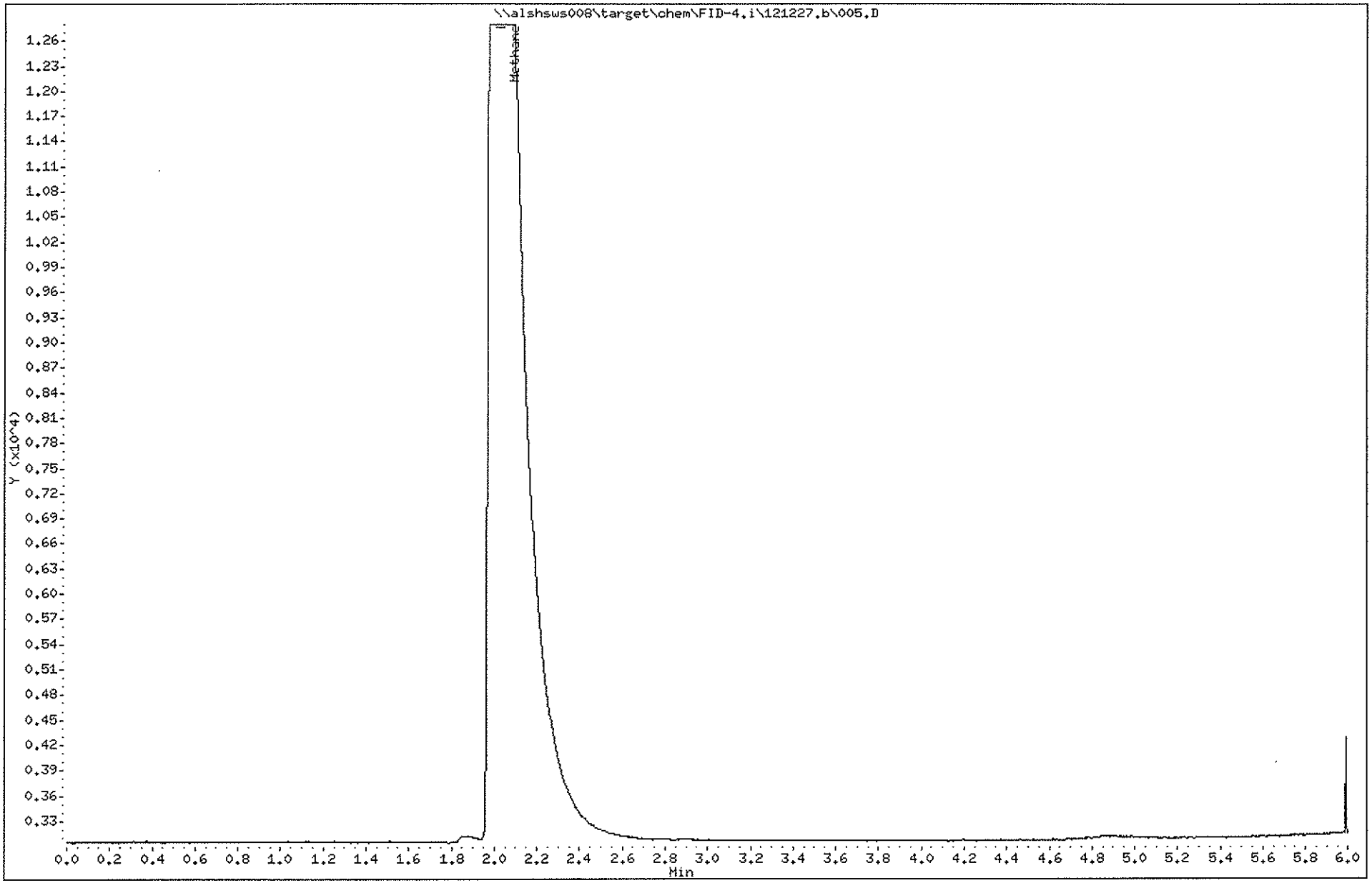
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.000	1.986	0.014	184662	238.741	238.740(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\005.D
Date : 27-DEC-2012 10:04
Client ID: 1212646-01A
Sample Info: 1212646-01A;1212646-01A;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\006.D
Lab Smp Id: 1212646-01AMS Client Smp ID: 1212646-01AMS
Inj Date : 27-DEC-2012 10:28
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-01AMS;1212646-01AMS;3;;MS
Misc Info : 1212646;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 6 QC Sample: MS
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.003	1.986	0.017	262378	339.216	339.215(AR)
2 Ethene	3.303	3.303	0.000	8311	12.7352	12.735(M)
3 Ethane	3.640	3.640	0.000	10912	13.5261	13.526

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ALS Laboratory Group

RECOVERY REPORT

Client Name: ENG SC
Sample Matrix: LIQUID
Lab Smp Id: 1212646-01AMS
Level: LOW
Data Type: GC DATA
SpikeList File: lcs.spk
Sublist File: std.sub
Method File: \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Misc Info: 1212646;1;0;1

Client SDG: 1212646
Fraction: GASES
Client Smp ID: 1212646-01AMS
Operator: JA
SampleType: MS
Quant Type: ESTD

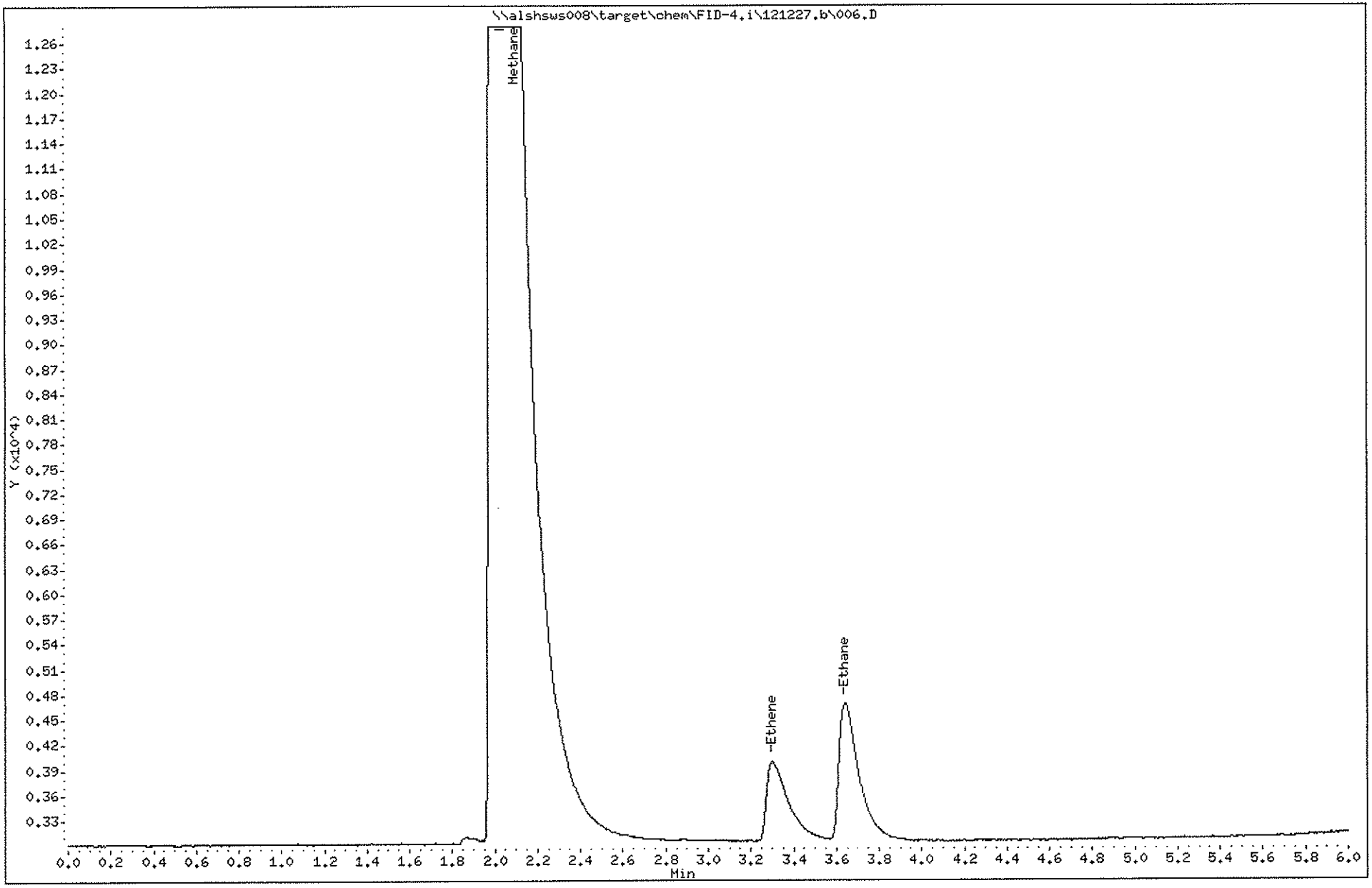
SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
1 Methane	9.620	339.215	3526.15*	75-125
2 Ethene	16.800	12.735	75.80	75-125
3 Ethane	18.000	13.526	75.14	75-125

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\006.D
Date : 27-DEC-2012 10:28
Client ID: 1212646-01AMS
Sample Info: 1212646-01AMS;1212646-01AMS;3;;MS

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\007.D
Lab Smp Id: 1212646-01AMSD Client Smp ID: 1212646-01AMSD
Inj Date : 27-DEC-2012 10:39
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-01AMSD;1212646-01AMSD;3;;MSD
Misc Info : 1212646;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 7 QC Sample: MSD
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSXP144

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.003	1.986	0.017	243657	315.012	315.012(AR)
2 Ethene	3.300	3.303	-0.003	8541	13.0876	13.087(M)
3 Ethane	3.636	3.640	-0.004	10995	13.6290	13.628(M)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ALS Laboratory Group

RECOVERY REPORT

Client Name: ENG SC
Sample Matrix: LIQUID
Lab Smp Id: 1212646-01AMSD
Level: LOW
Data Type: GC DATA
SpikeList File: lcs.spk
Sublist File: std.sub
Method File: \\alshsws008\target\chem\FID-4.i\121227.b\rsk175.m
Misc Info: 1212646;1;0;1

Client SDG: 1212646
Fraction: GASES
Client Smp ID: 1212646-01AMSD
Operator: JA
SampleType: MSD
Quant Type: ESTD

SPIKE COMPOUND	AMOUNT ADDED ug/L	AMOUNT RECOVERED ug/L	% RECOVERED	LIMITS
1 Methane	9.620	315.012	3274.56*	75-125
2 Ethene	16.800	13.087	77.90	75-125
3 Ethane	18.000	13.628	75.72	75-125

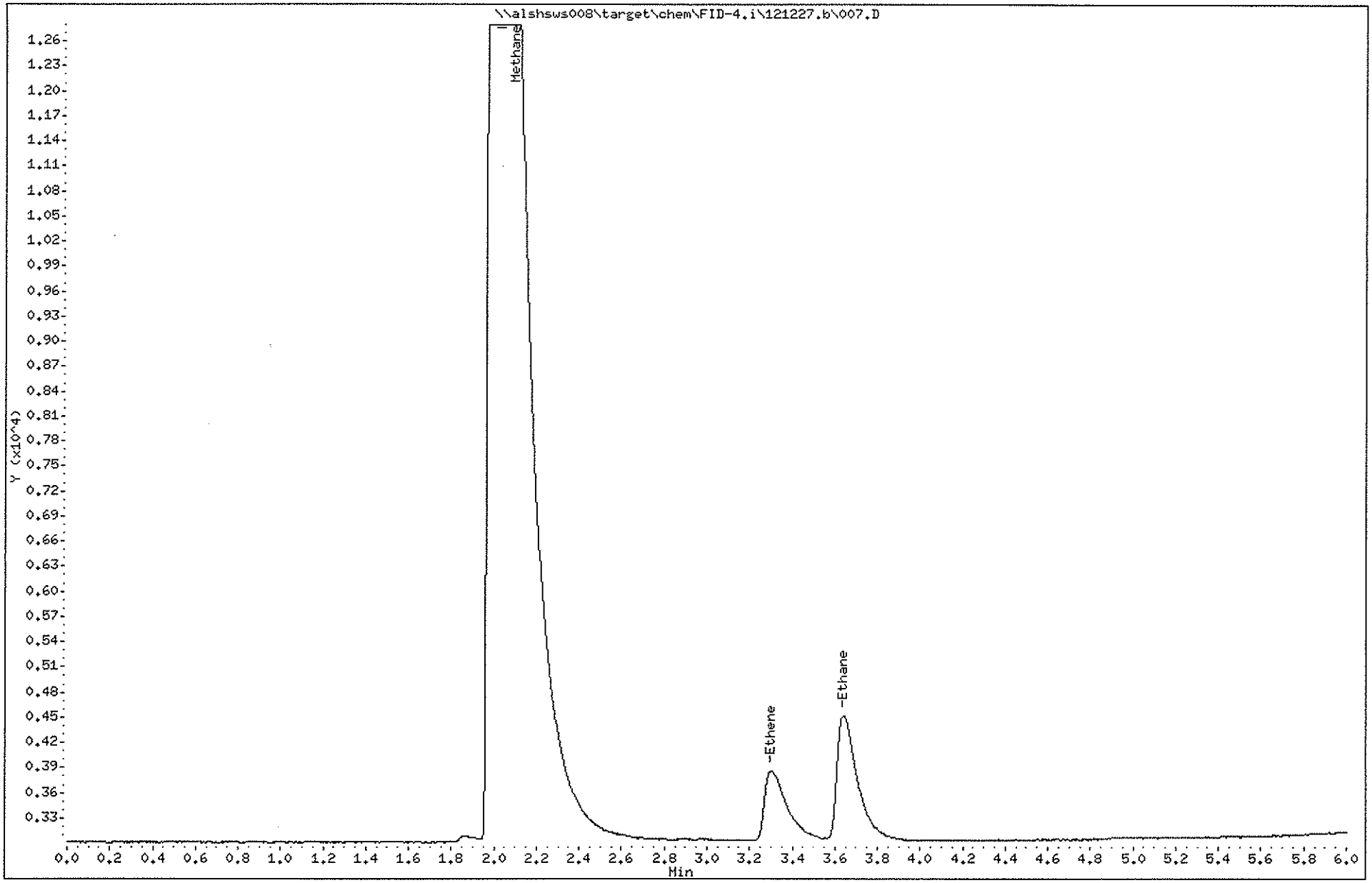
Data File: \\alshsws008\target\chem\FID-4.i\121227.b\007.D
Date : 27-DEC-2012 10:39
Client ID: 1212646-01AMSD
Sample Info: 1212646-01AMSD;1212646-01AMSD;3;;MSD

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

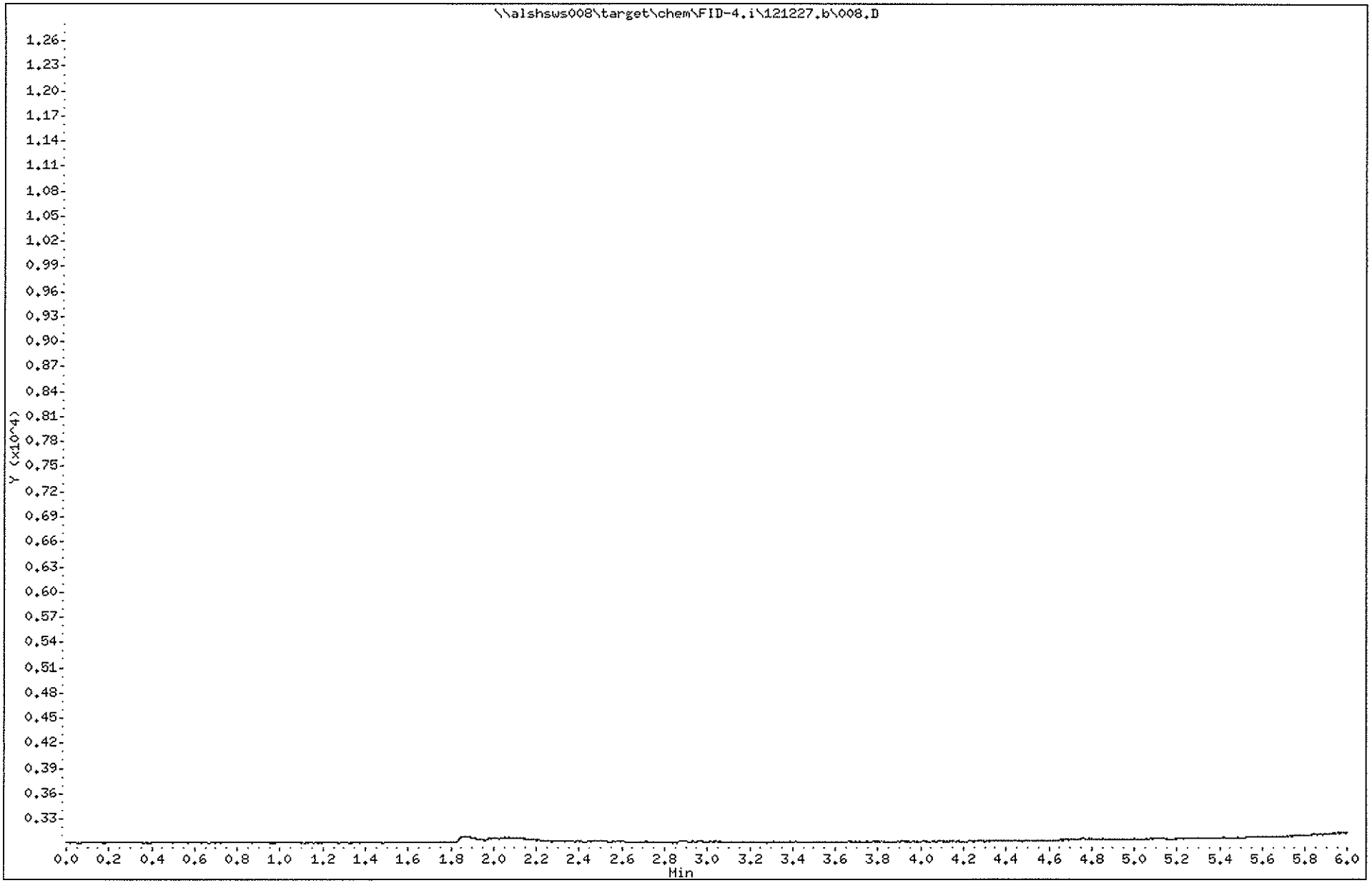
Data file : \\alshsws008\target\chem\FID-4.i\121227.b\008.D
Lab Smp Id: 1212646-02A Client Smp ID: 1212646-02A
Inj Date : 27-DEC-2012 10:53
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-02A;1212646-02A;;;
Misc Info : 1212646;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\008.D
Date : 27-DEC-2012 10:53
Client ID: 1212646-02A
Sample Info: 1212646-02A;1212646-02A;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

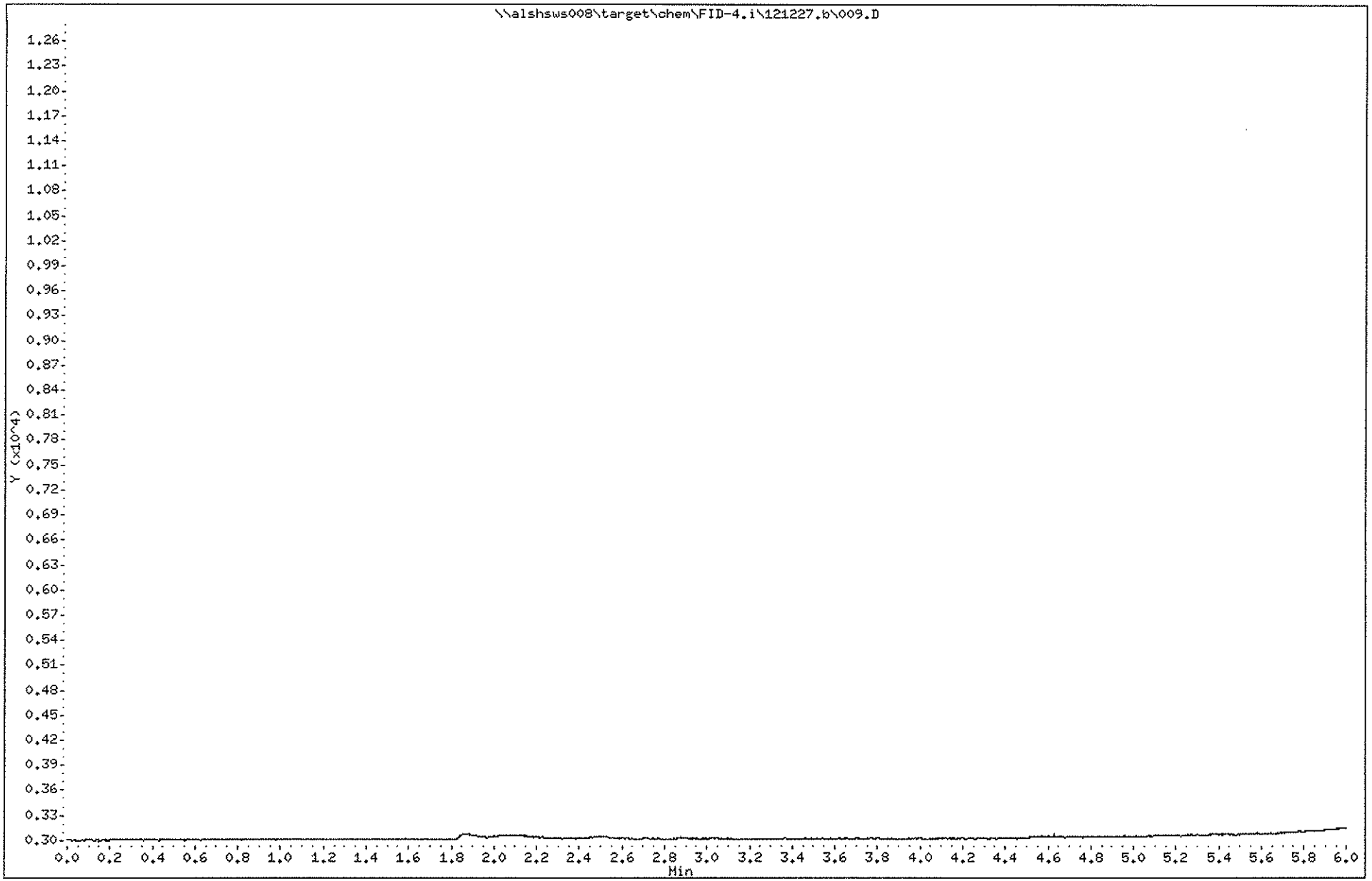
Data file : \\alshsws008\target\chem\FID-4.i\121227.b\009.D
Lab Smp Id: 1212646-03A Client Smp ID: 1212646-03A
Inj Date : 27-DEC-2012 11:05
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-03A;1212646-03A;;;
Misc Info : 1212646;1;0;1
Comment :
Method : \\alshsws008\target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\009.D
Date : 27-DEC-2012 11:05
Client ID: 1212646-03A
Sample Info: 1212646-03A;1212646-03A;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\010.D
Lab Smp Id: 1212646-04A Client Smp ID: 1212646-04A
Inj Date : 27-DEC-2012 11:16
Operator : JA Inst ID: FID-4.i
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Misc Info : 1212646;1;0;1
Comment :
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Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.006	1.986	0.020	1994929	2579.15	2579.146(AM)
2 Ethene	3.293	3.303	-0.010	580	0.88875	0.888(aM)
3 Ethane	3.626	3.640	-0.014	417	0.51690	0.516(aM)

QC Flag Legend

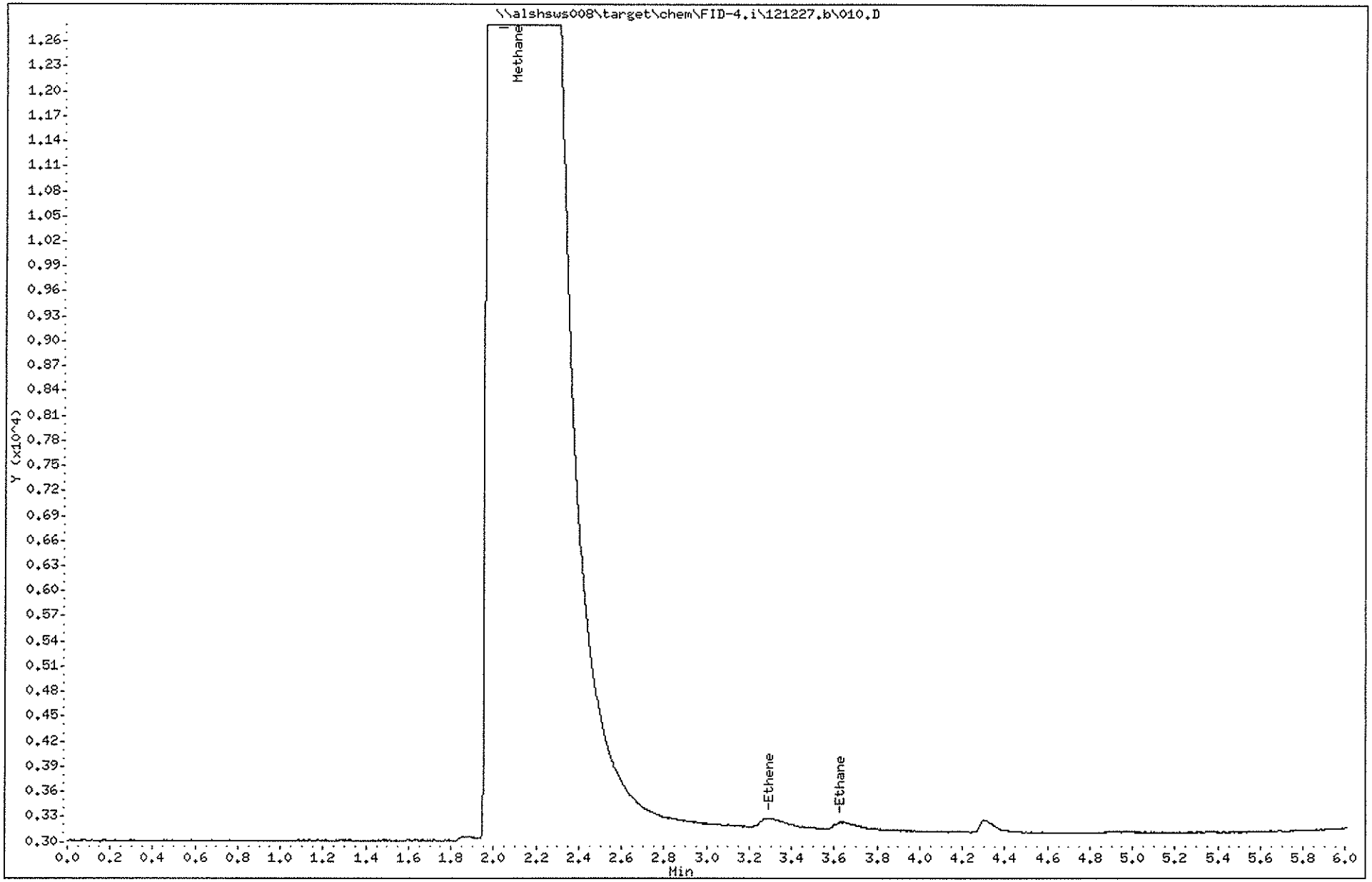
a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\010.D
Date : 27-DEC-2012 11:16
Client ID: 1212646-04A
Sample Info: 1212646-04A;1212646-04A;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\011.D
Lab Smp Id: 1212646-05A Client Smp ID: 1212646-05A
Inj Date : 27-DEC-2012 11:26
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-05A;1212646-05A;;;
Misc Info : 1212646;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	1.986	1.986	0.000	4005479	5178.49	5178.489(AM)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

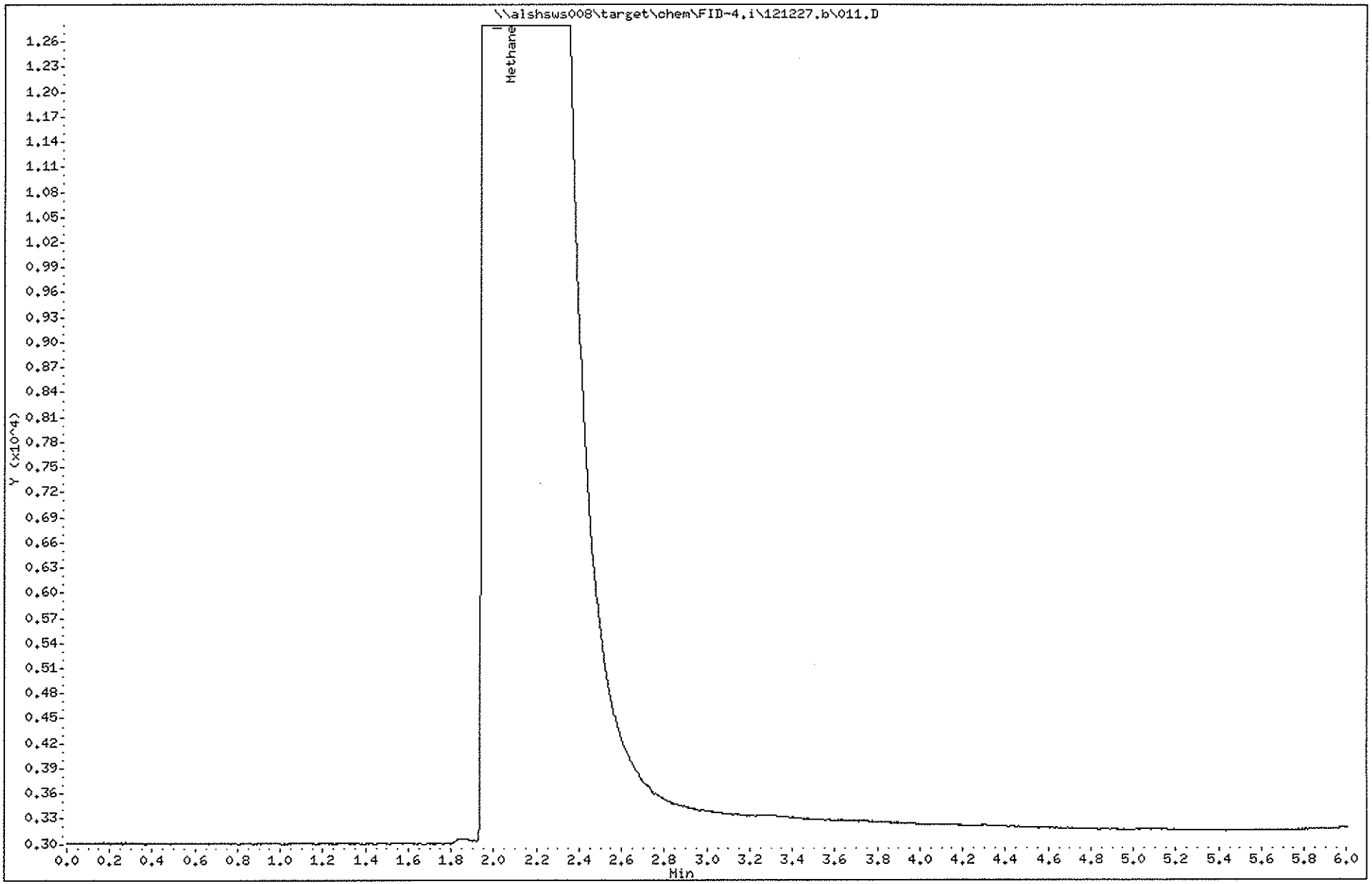
Data File: \\alshsws008\target\chem\FID-4.i\121227.b\011.D
Date : 27-DEC-2012 11:26
Client ID: 1212646-05A
Sample Info: 1212646-05A;1212646-05A;;;

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\012.D
Lab Smp Id: 1212646-06A Client Smp ID: 1212646-06A
Inj Date : 27-DEC-2012 11:37
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-06A;1212646-06A;;;
Misc Info : 1212646;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.000	1.986	0.014	3144071	4064.82	4064.816(AM)
2 Ethene	3.296	3.303	-0.007	8158	12.5007	12.500(M)
3 Ethane	3.633	3.640	-0.007	873	1.08214	1.082(M)

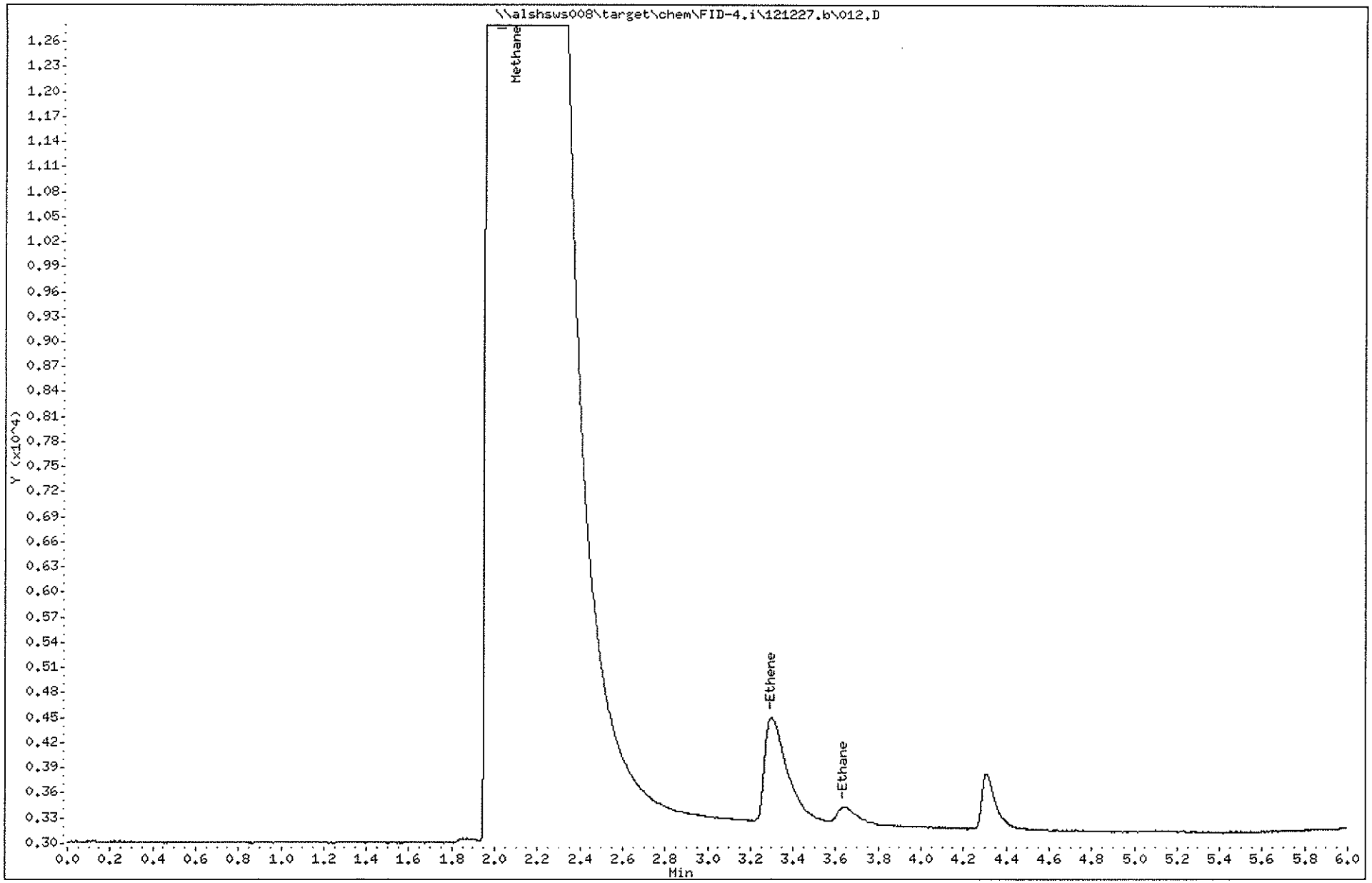
QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\012.D
Date : 27-DEC-2012 11:37
Client ID: 1212646-06A
Sample Info: 1212646-06A;1212646-06A;;;

Instrument: FID-4.i
Operator: JA
Column diameter: 0.53

Column phase: Rtx-PLOT



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\013.D
Lab Smp Id: 1212646-01A Client Smp ID: 1212646-01A
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Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-01A;1212646-01A;;;
Misc Info : 1212646;1;0;10
Comment :
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Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 13
Dil Factor: 10.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

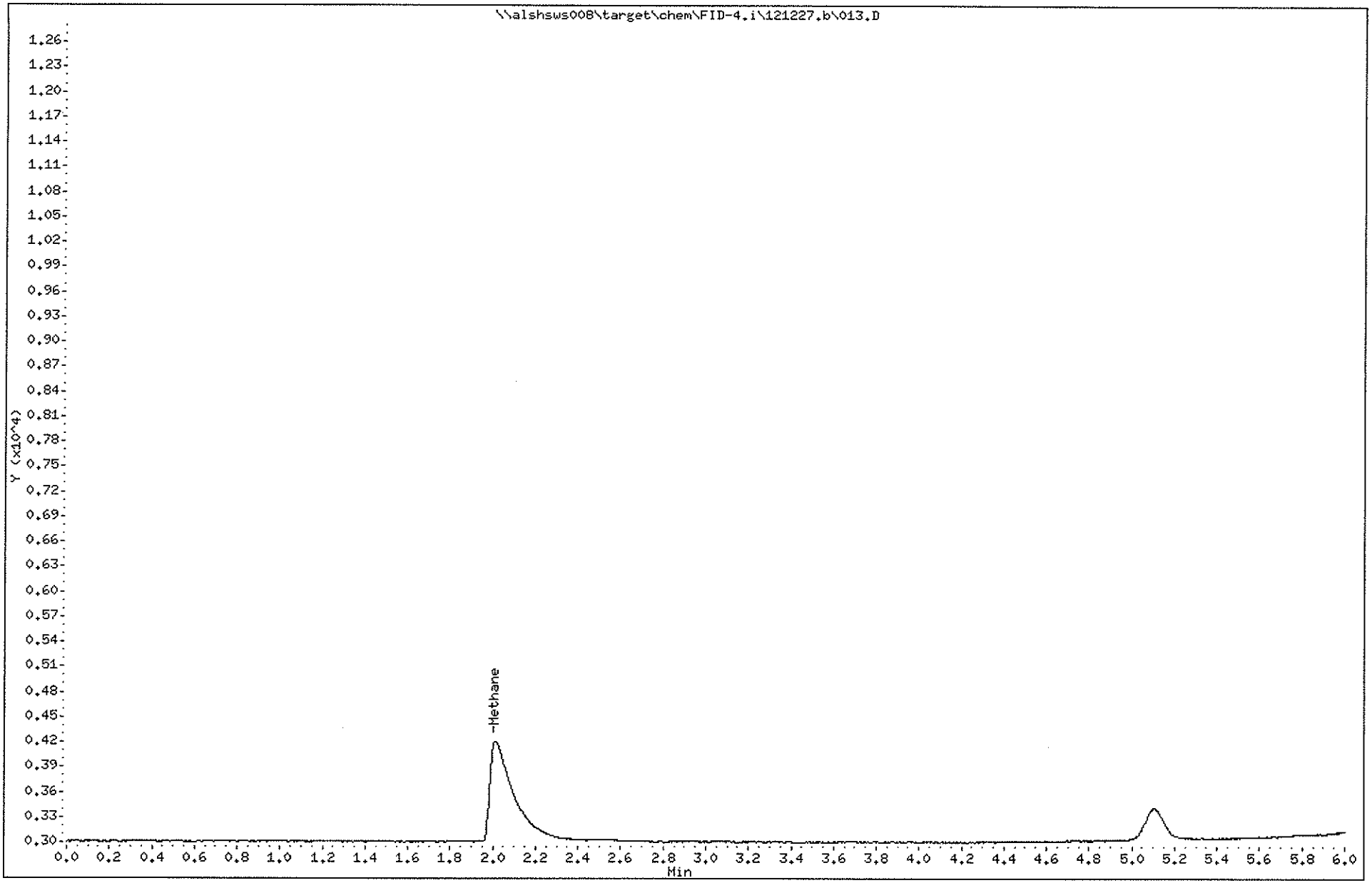
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
1 Methane	2.010	1.986	0.024	9609	12.4230	124.230

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\013.D
Date : 27-DEC-2012 12:00
Client ID: 1212646-01A
Sample Info: 1212646-01A;1212646-01A;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\014.D
Lab Smp Id: 1212646-04A Client Smp ID: 1212646-04A
Inj Date : 27-DEC-2012 12:11
Operator : JA Inst ID: FID-4.i
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Misc Info : 1212646;1;0;100
Comment :
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Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 14
Dil Factor: 100.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

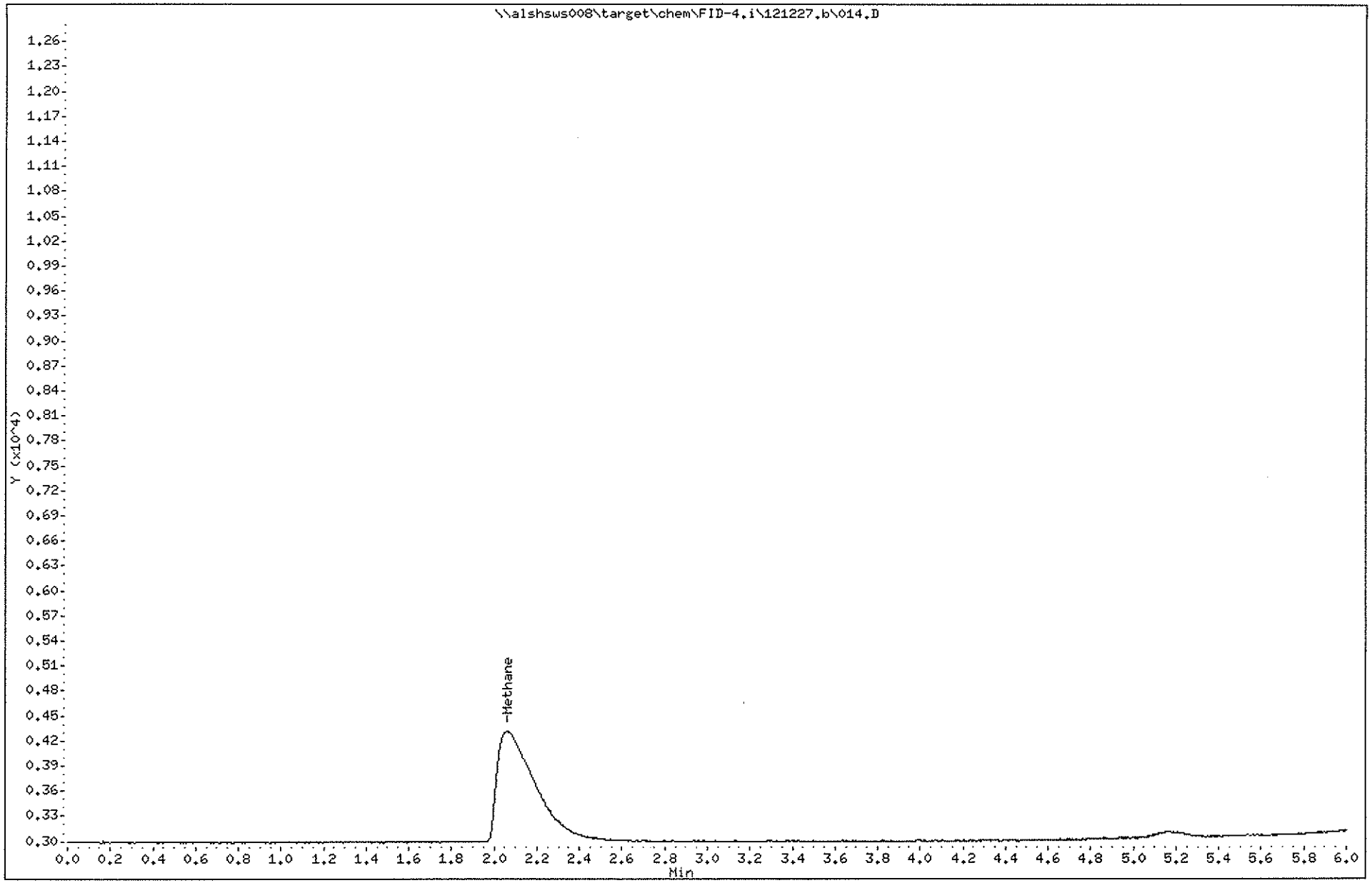
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.063	1.986	0.077	16563	21.4135	2141.349

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\014.D
Date : 27-DEC-2012 12:11
Client ID: 1212646-04A
Sample Info: 1212646-04A:1212646-04A:::

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\015.D
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Inj Date : 27-DEC-2012 12:22
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-05A;1212646-05A;;;
Misc Info : 1212646;1;0;200
Comment :
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Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 15
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

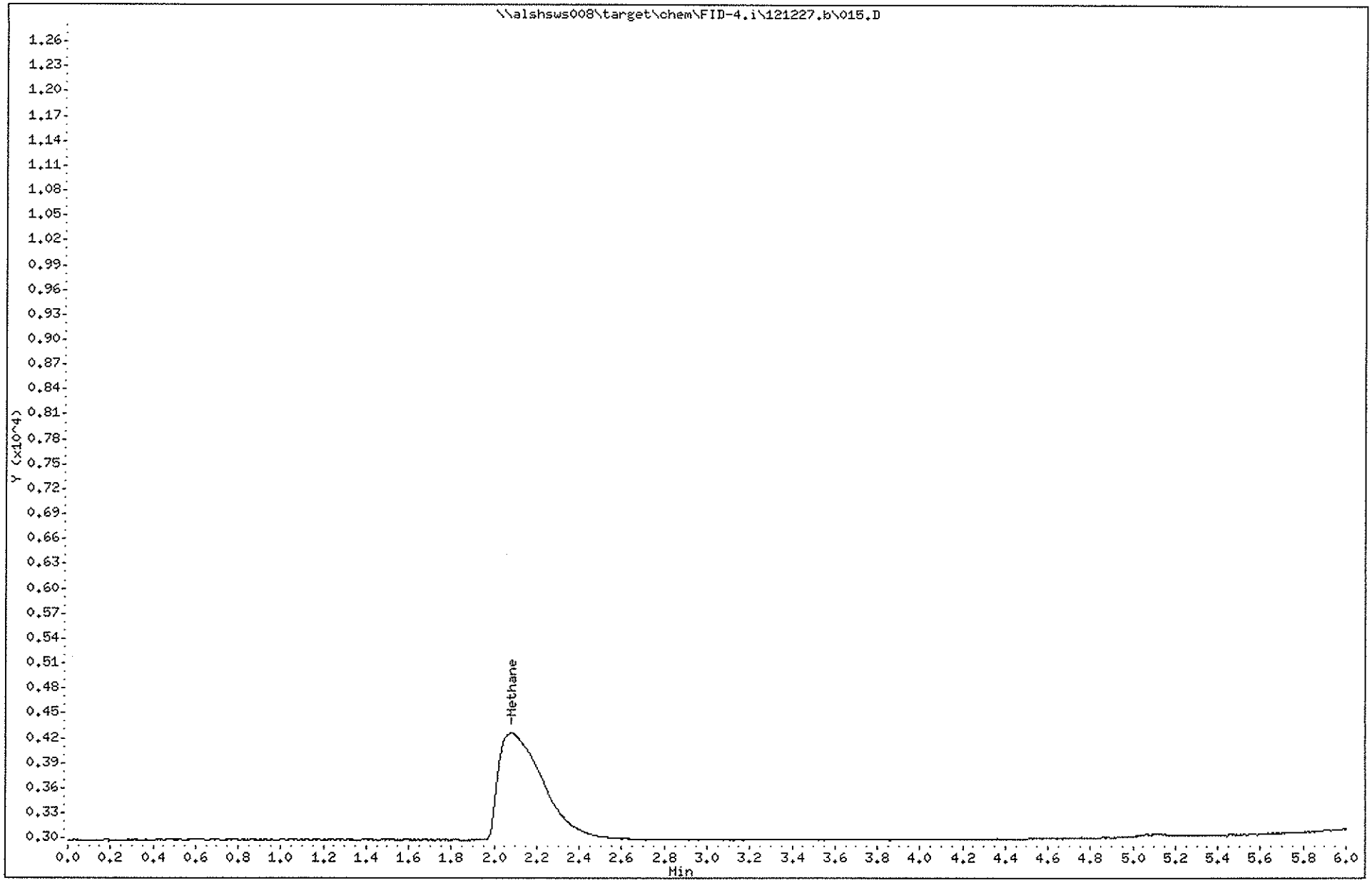
Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.083	1.986	0.097	18750	24.2410	4848.192

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\015.D
Date : 27-DEC-2012 12:22
Client ID: 1212646-05A
Sample Info: 1212646-05A;1212646-05A;;;

Column phase: Rtx-PLOT

Instrument: FID-4.i

Operator: JA
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\016.D
Lab Smp Id: 1212646-06A Client Smp ID: 1212646-06A
Inj Date : 27-DEC-2012 12:33
Operator : JA Inst ID: FID-4.i
Smp Info : 1212646-06A;1212646-06A;;;
Misc Info : 1212646;1;0;200
Comment :
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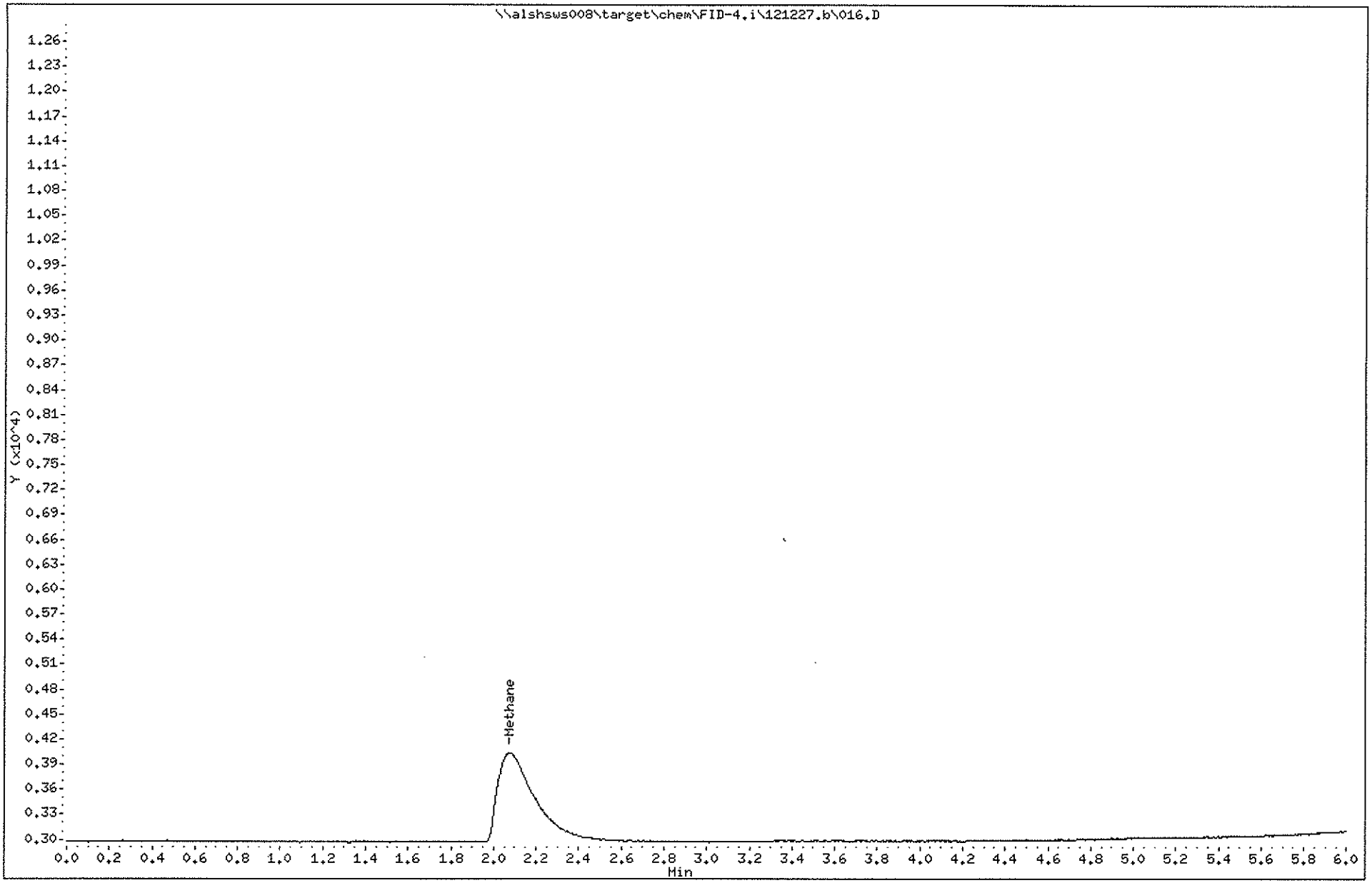
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 16
Dil Factor: 200.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	2.076	1.986	0.090	12969	16.7670	3353.398

Data File: \\alshsws008\target\chem\FID-4.i\121227.b\016.D
Date : 27-DEC-2012 12:33
Client ID: 1212646-06A
Sample Info: 1212646-06A;1212646-06A;;;

Instrument: FID-4.i
Operator: JA
Column phase: Rtx-PLOT
Column diameter: 0.53



ALS Laboratory Group

Dissolved Gases Analysis

Data file : \\alshsws008\target\chem\FID-4.i\121227.b\017.D
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 27-DEC-2012 12:44
Operator : JA Inst ID: FID-4.i
Smp Info : CCV;CCV;2;4
Misc Info : ;1;0;1
Comment :
Method : \\ALSHSWS008\Target\chem\FID-4.i\121227.b\RSK175.m
Meth Date : 27-Dec-2012 14:02 nizekor Quant Type: ESTD
Cal Date : 10-JAN-2012 12:40 Cal File: 007.D
Als bottle: 17 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: std.sub
Target Version: 4.14
Processing Host: ALSHSWS008

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
1 Methane	1.986	1.986	0.000	6955	9.62000	8.991
2 Ethene	3.303	3.303	0.000	10296	16.8000	15.776
3 Ethane	3.640	3.640	0.000	12707	18.0000	15.751

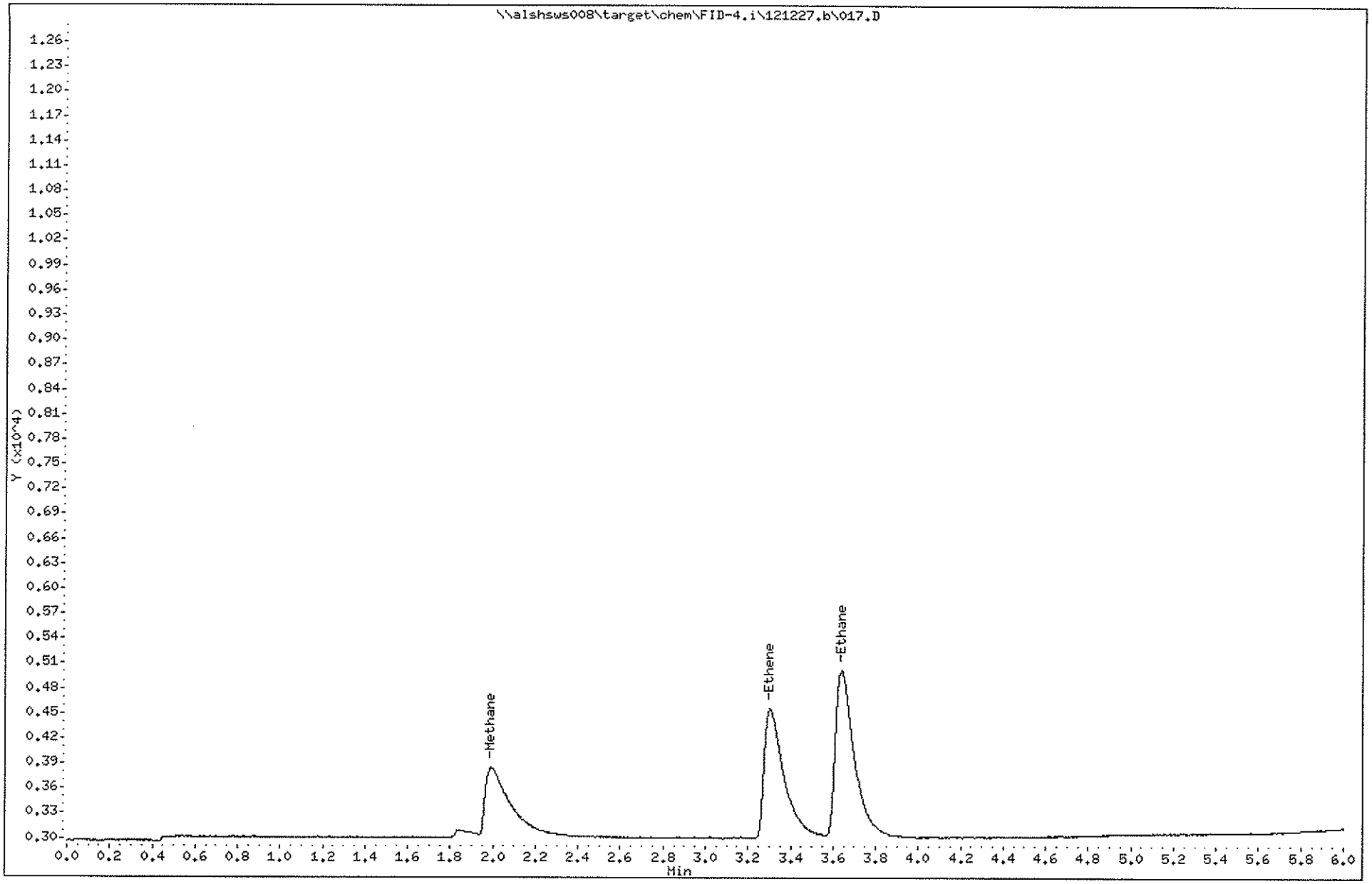
Data File: \\alshsws008\target\chem\FID-4.i\121227.b\017.D
Date : 27-DEC-2012 12:44
Client ID: CCV
Sample Info: CCV;CCV;2;4

Instrument: FID-4.i

Operator: JA

Column phase: Rtx-PLOT

Column diameter: 0.53

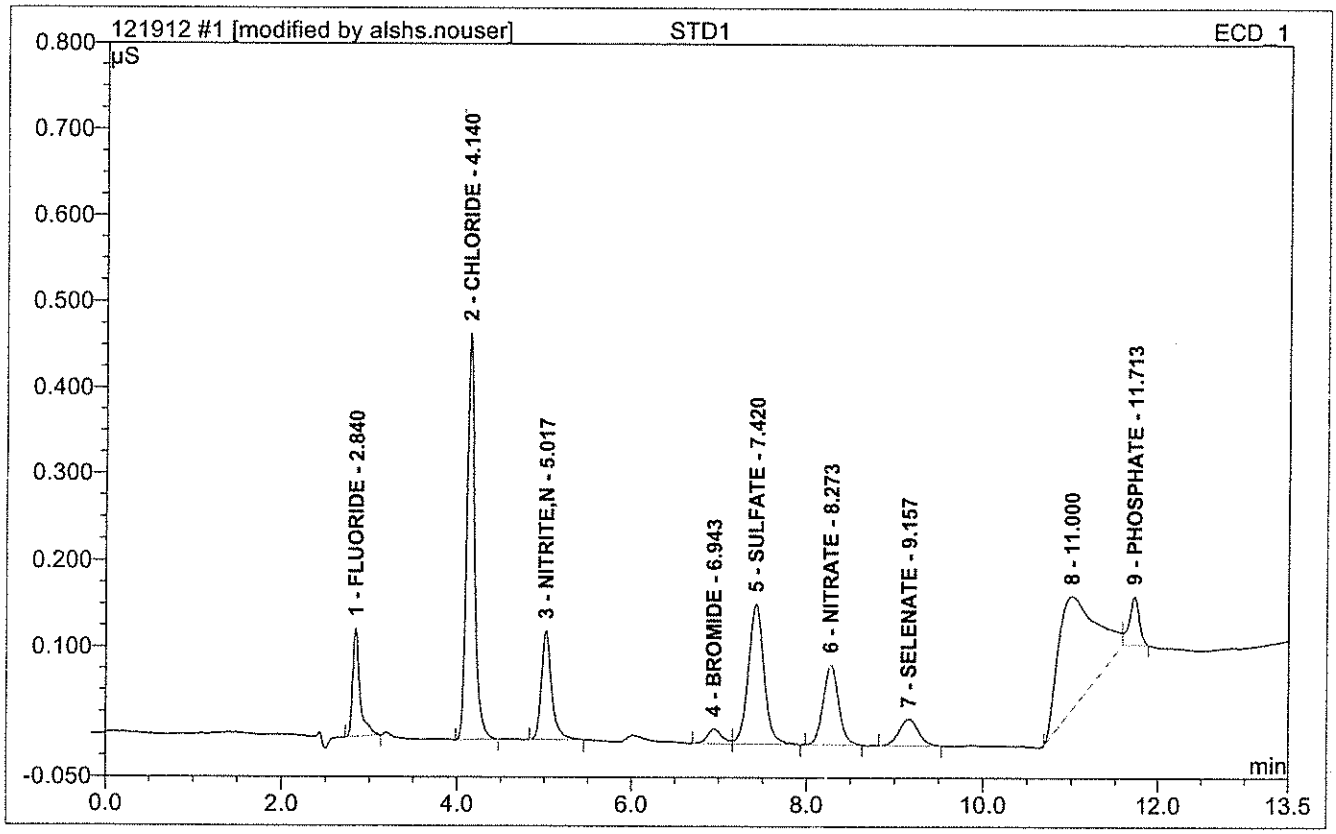


Wet Chemistry Raw Data

EA Engineering, Science and Technology
Jones Road
ALS WO# 1212646

1 STD1

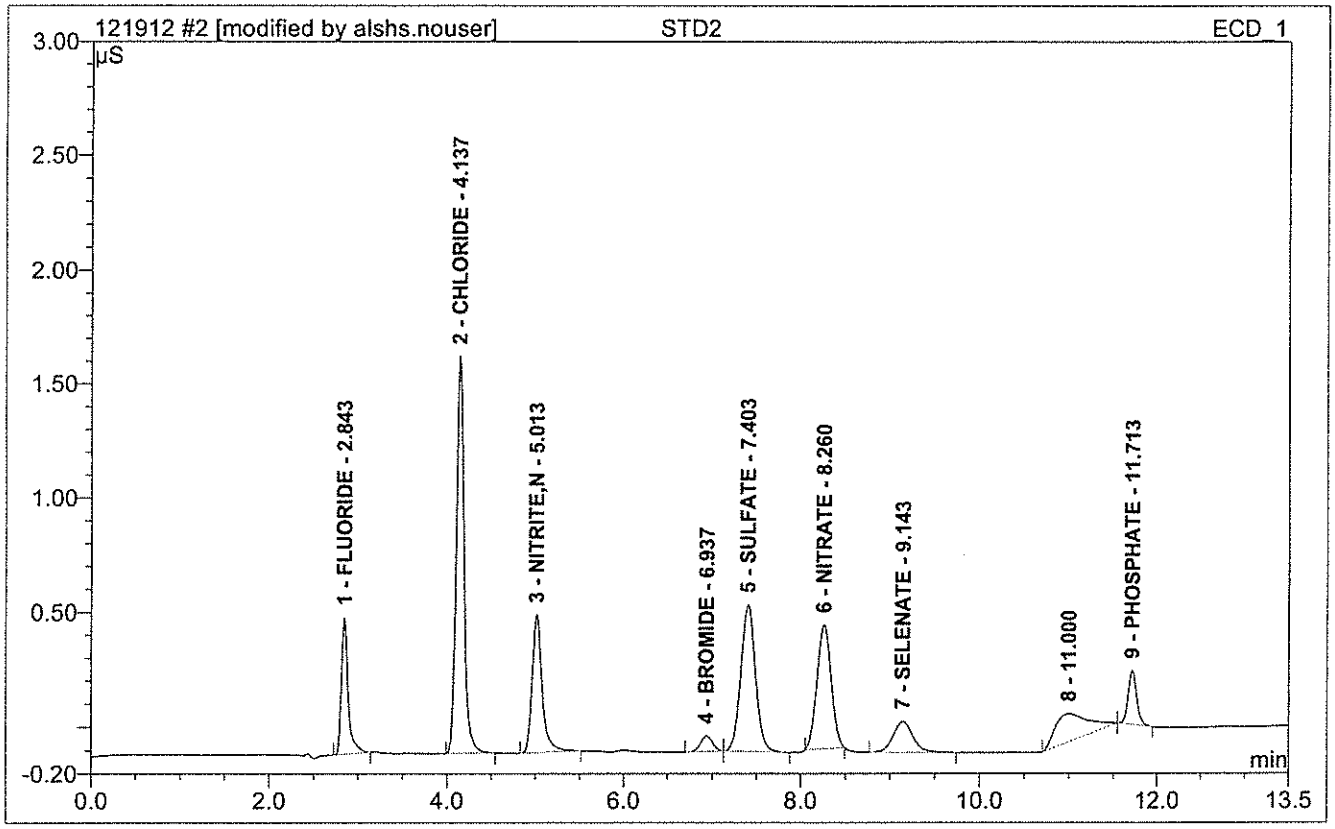
Sample Name:	**STD1**	*Injection Volume:*	**10.0**
Vial Number:	**11**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 12:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	0.125	0.012	5.58	0.087	1.
2	4.14	CHLORIDE	0.471	0.050	23.29	0.557	1.
3	5.02	NITRITE,N	0.126	0.017	8.07	0.083	1.
4	6.94	BROMIDE	0.017	0.003	1.52	0.100	1.
5	7.42	SULFATE	0.162	0.033	15.67	0.499	1.
6	8.27	NITRATE	0.092	0.019	8.78	0.084	1.
7	9.16	SELENATE	0.031	0.008	3.73	0.085	1.
9	11.71	PHOSPHATE	0.056	0.008	3.60	0.094	1.
Total:			1.080	0.150	70.24	1.589	

2 STD2

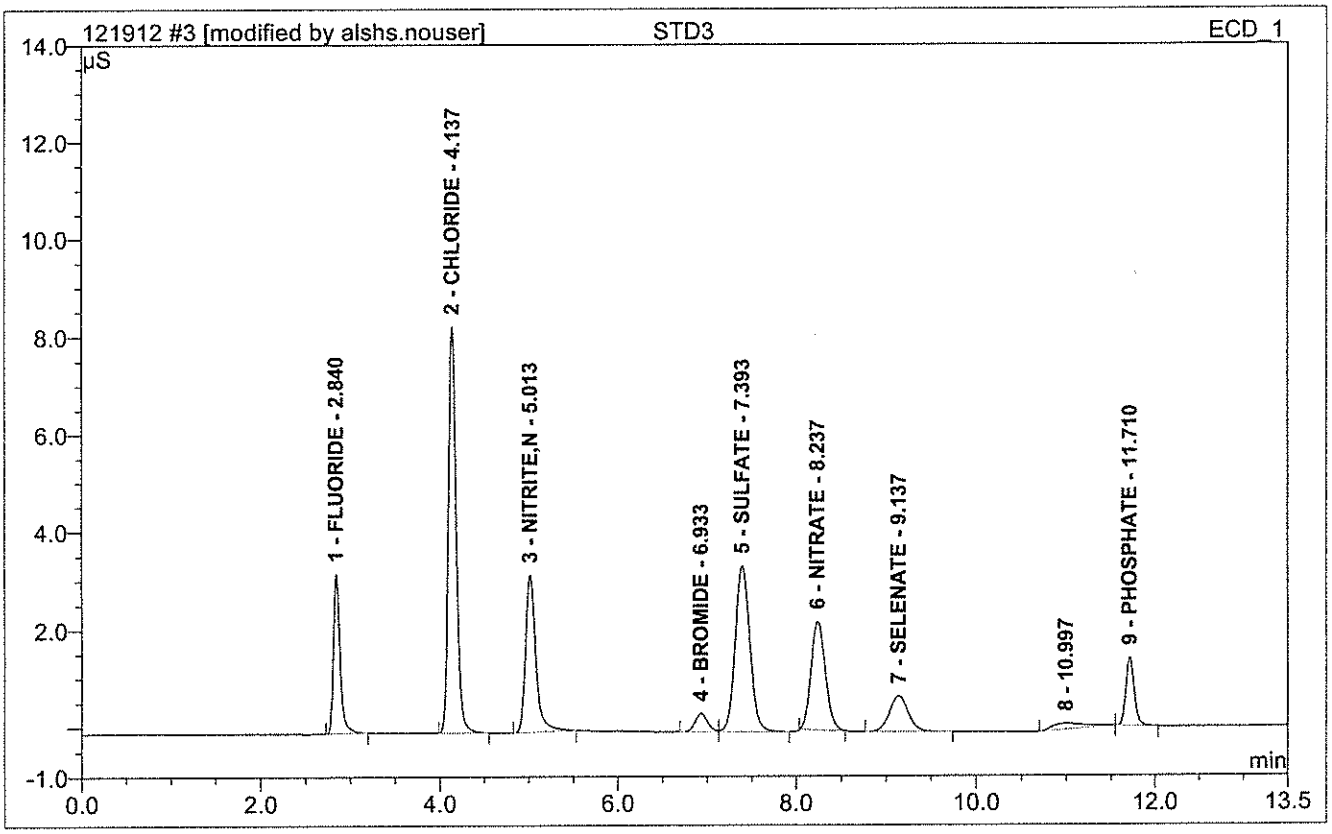
Sample Name:	**STD2**	*Injection Volume:*	**10.0**
Vial Number:	**12**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 12:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	0.594	0.052	8.02	0.382	1.
2	4.14	CHLORIDE	1.733	0.176	27.00	1.977	1.
3	5.01	NITRITE,N	0.601	0.079	12.06	0.378	1.
4	6.94	BROMIDE	0.067	0.010	1.61	0.322	1.
5	7.40	SULFATE	0.640	0.123	18.79	1.835	1.
6	8.26	NITRATE	0.542	0.100	15.25	0.447	1.
7	9.14	SELENATE	0.134	0.034	5.25	0.367	1.
9	11.71	PHOSPHATE	0.237	0.027	4.11	0.330	1.
Total:			4.547	0.601	92.08	6.039	

3 STD3

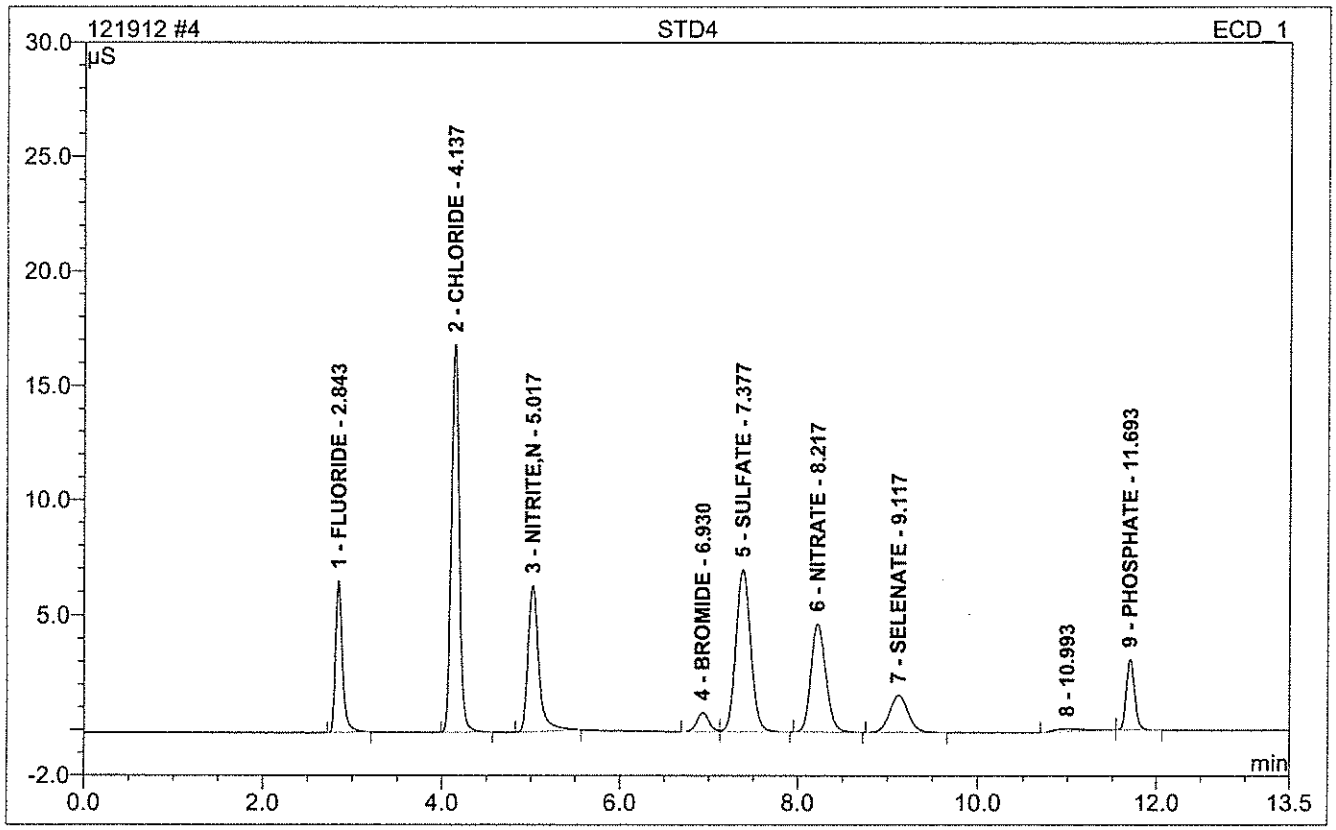
Sample Name:	**STD3**	*Injection Volume:*	**10.0**
Vial Number:	**13**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 12:55**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	3.272	0.282	9.22	2.060	1.
2	4.14	CHLORIDE	8.311	0.847	27.70	9.511	1.
3	5.01	NITRITE,N	3.215	0.427	13.95	2.051	1.
4	6.93	BROMIDE	0.375	0.060	1.97	1.853	1.
5	7.39	SULFATE	3.390	0.648	21.19	9.700	1.
6	8.24	NITRATE	2.222	0.412	13.48	1.852	1.
7	9.14	SELENATE	0.735	0.177	5.78	1.893	1.
9	11.71	PHOSPHATE	1.397	0.153	4.99	1.879	1.
Total:			22.917	3.007	98.29	30.799	

4 STD4

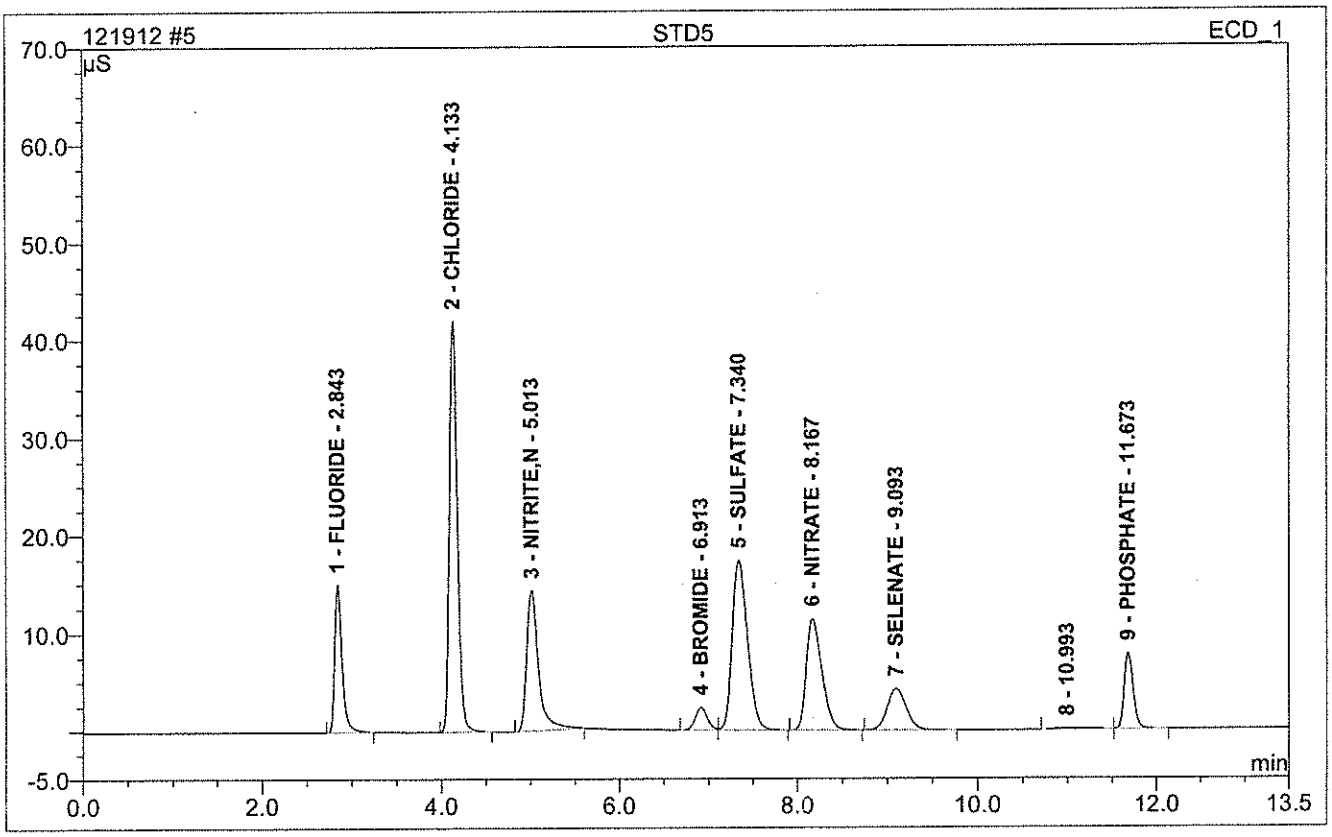
Sample Name:	**STD4**	*Injection Volume:*	**10.0**
Vial Number:	**14**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 13:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	6.577	0.584	9.14	4.265	1.
2	4.14	CHLORIDE	16.900	1.736	27.19	19.479	1.
3	5.02	NITRITE,N	6.335	0.891	13.95	4.282	1.
4	6.93	BROMIDE	0.836	0.131	2.05	4.021	1.
5	7.38	SULFATE	7.053	1.362	21.33	20.379	1.
6	8.22	NITRATE	4.701	0.909	14.24	4.081	1.
7	9.12	SELENATE	1.609	0.384	6.01	4.110	1.
9	11.69	PHOSPHATE	3.065	0.337	5.28	4.145	1.
Total:			47.076	6.332	99.20	64.763	

5 STD5

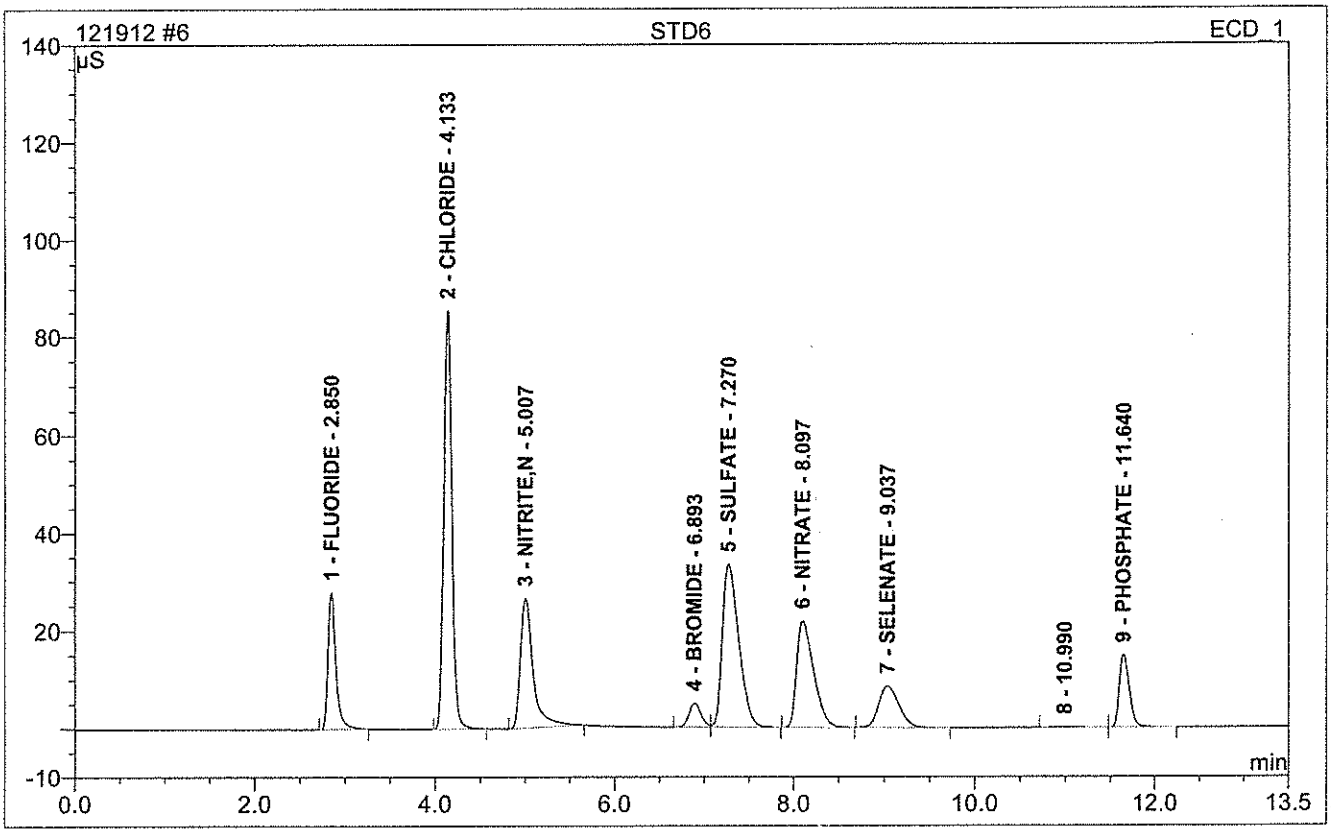
Sample Name:	**STD5**	*Injection Volume:*	**10.0**
Vial Number:	**15**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 13:24**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	15.089	1.435	8.92	10.483	1.
2	4.13	CHLORIDE	42.025	4.343	27.02	48.741	1.
3	5.01	NITRITE,N	14.350	2.220	13.81	10.671	1.
4	6.91	BROMIDE	2.306	0.358	2.22	10.971	1.
5	7.34	SULFATE	17.305	3.455	21.49	51.708	1.
6	8.17	NITRATE	11.364	2.297	14.29	10.316	1.
7	9.09	SELENATE	4.205	1.026	6.38	10.993	1.
9	11.67	PHOSPHATE	7.700	0.894	5.56	11.001	1.
Total:			114.343	16.028	99.70	164.884	

6 STD6

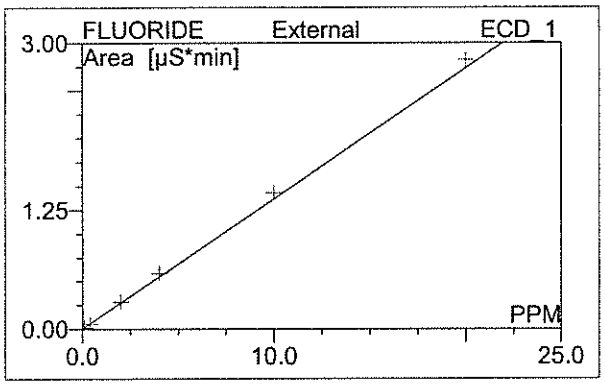
Sample Name:	**STD6**	*Injection Volume:*	**10.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 13:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**

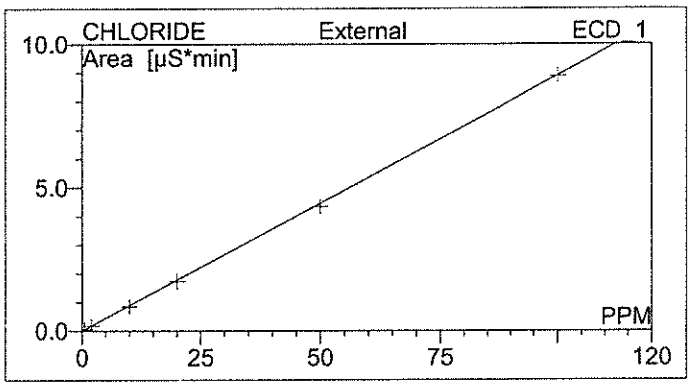


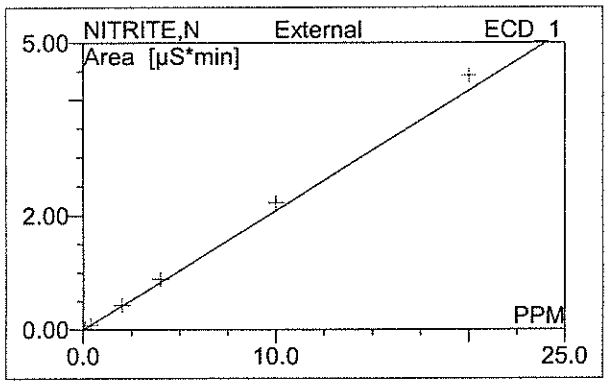
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.85	FLUORIDE	27.893	2.822	8.60	20.621	1.
2	4.13	CHLORIDE	85.625	8.889	27.09	99.759	1.
3	5.01	NITRITE,N	26.501	4.426	13.49	21.275	1.
4	6.89	BROMIDE	4.920	0.763	2.33	23.410	1.
5	7.27	SULFATE	33.313	7.085	21.59	106.023	1.
6	8.10	NITRATE	21.707	4.742	14.45	21.297	1.
7	9.04	SELENATE	8.478	2.164	6.59	23.183	1.
9	11.64	PHOSPHATE	14.670	1.878	5.72	23.104	1.
Total:			223.107	32.769	99.86	338.674	

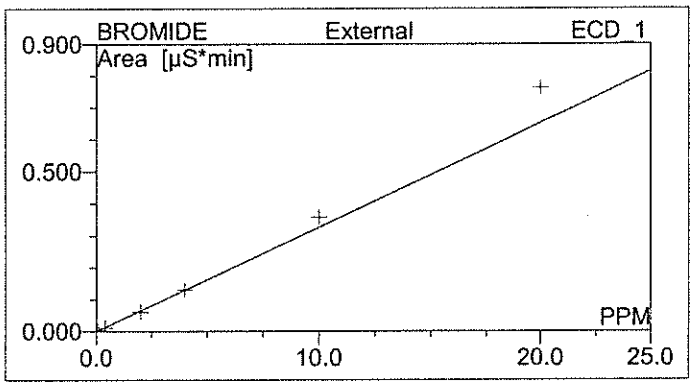
6 STD6

Sample Name:	**STD6**	*Injection Volume:*	**10.0**
Vial Number:	**16**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**###############**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**









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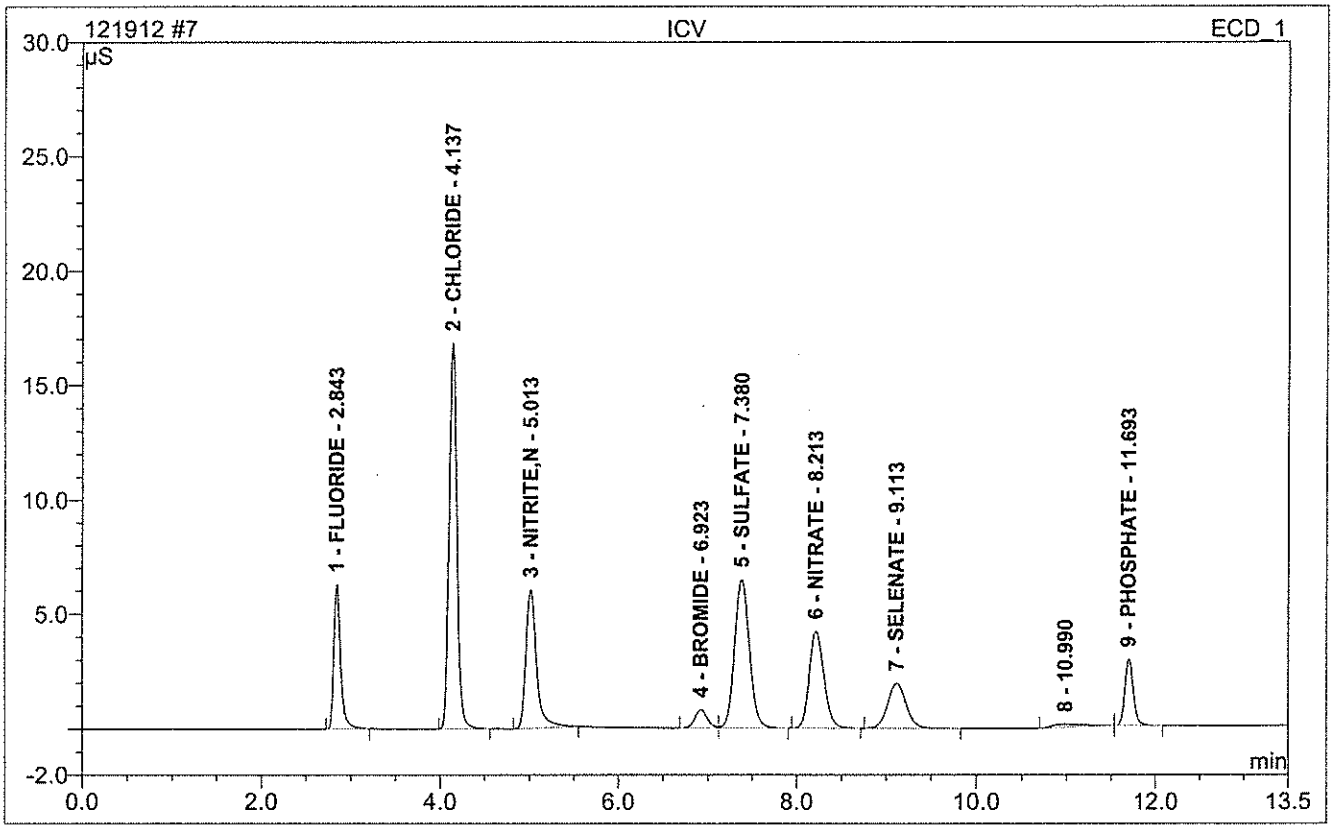
No.	Ret.Time min	Peak Name	Cal.Type	Points	Coeff.Det. %	Offset	Slope	Curve
1	2.85	FLUORIDE	AvCF	6	99.782	0.0000	0.1369	0.000
2	4.13	CHLORIDE	AvCF	6	99.971	0.0000	0.0891	0.000
3	5.01	NITRITE,N	AvCF	6	99.363	0.0000	0.2080	0.000
4	6.89	BROMIDE	AvCF	6	96.944	0.0000	0.0326	0.000
5	7.27	SULFATE	AvCF	6	99.530	0.0000	0.0668	0.000
6	8.10	NITRATE	AvCF	6	99.465	0.0000	0.2227	0.000
7	9.04	SELENATE	AvCF	6	97.240	0.0000	0.0933	0.000
9	11.64	PHOSPHATE	AvCF	6	97.341	0.0000	0.0813	0.000
Average:					98.7044	0.0000	0.1163	0.0000

No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	RF-Value	Std.Dev.	RSD %
1	2.85	FLUORIDE	AvCF	6	99.994	7.307	0.010	7.457
2	4.13	CHLORIDE	AvCF	6	99.993	11.222	0.005	5.798
3	5.01	NITRITE,N	AvCF	6	99.999	4.807	0.020	9.702
4	6.89	BROMIDE	AvCF	6	99.936	30.679	0.004	12.823
5	7.27	SULFATE	AvCF	6	99.992	14.964	0.003	5.064
6	8.10	NITRATE	AvCF	6	99.983	4.491	0.022	10.050
7	9.04	SELENATE	AvCF	6	99.956	10.713	0.011	11.663
9	11.64	PHOSPHATE	AvCF	6	99.963	12.303	0.010	12.080
Average:					99.9770	12.0609	0.0108	9.3295

7 ICV

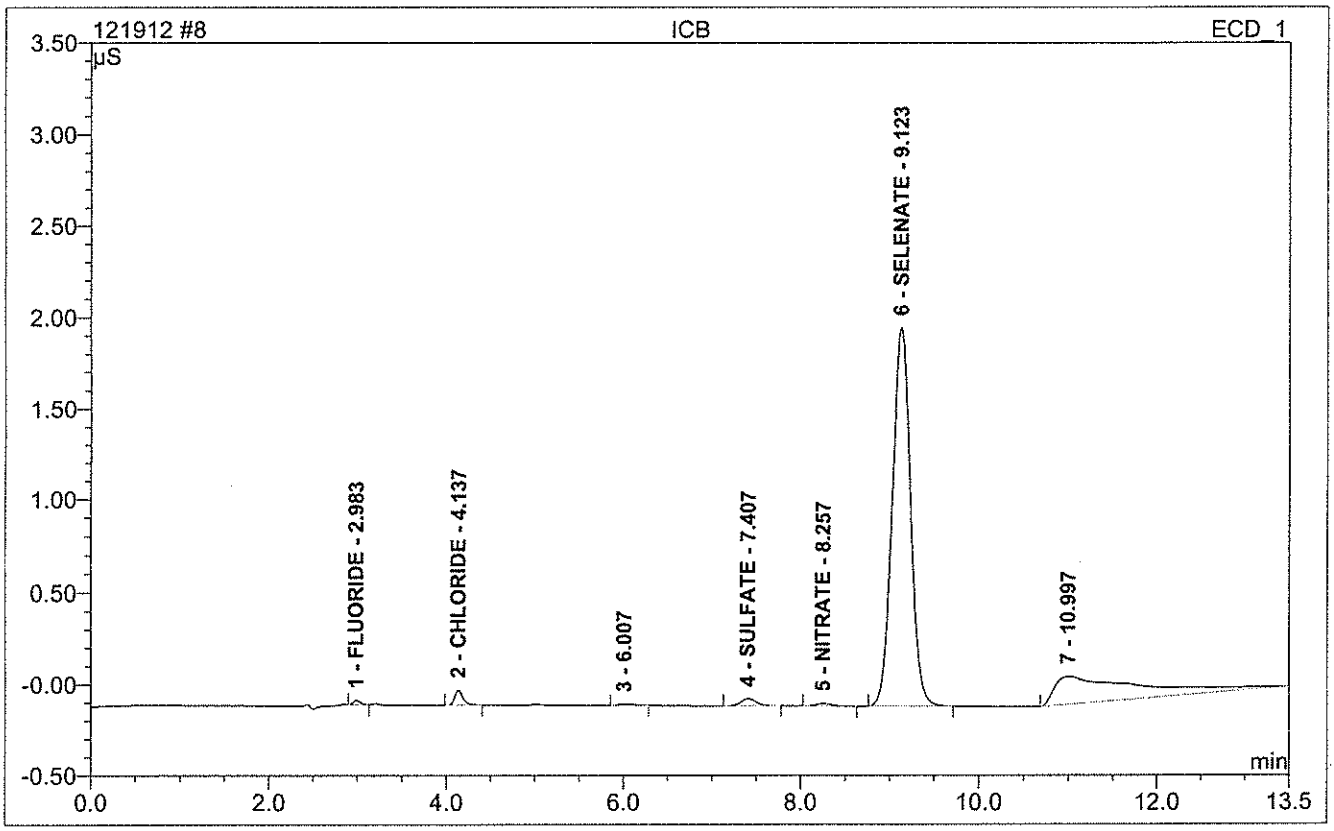
Sample Name:	**ICV**	*Injection Volume:*	**10.0**
Vial Number:	**17**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 14:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	6.284	0.553	9.05	4.042	1.
2	4.14	CHLORIDE	16.822	1.718	28.09	19.278	1.
3	5.01	NITRITE,N	6.037	0.835	13.66	4.016	1.
4	6.92	BROMIDE	0.800	0.126	2.05	3.852	1.
5	7.38	SULFATE	6.462	1.246	20.38	18.647	1.
6	8.21	NITRATE	4.198	0.806	13.17	3.618	1.
7	9.11	SELENATE	1.951	0.464	7.59	4.969	1.
9	11.69	PHOSPHATE	2.865	0.314	5.14	3.868	1.
Total:			45.420	6.062	99.13	62.290	

8 ICB

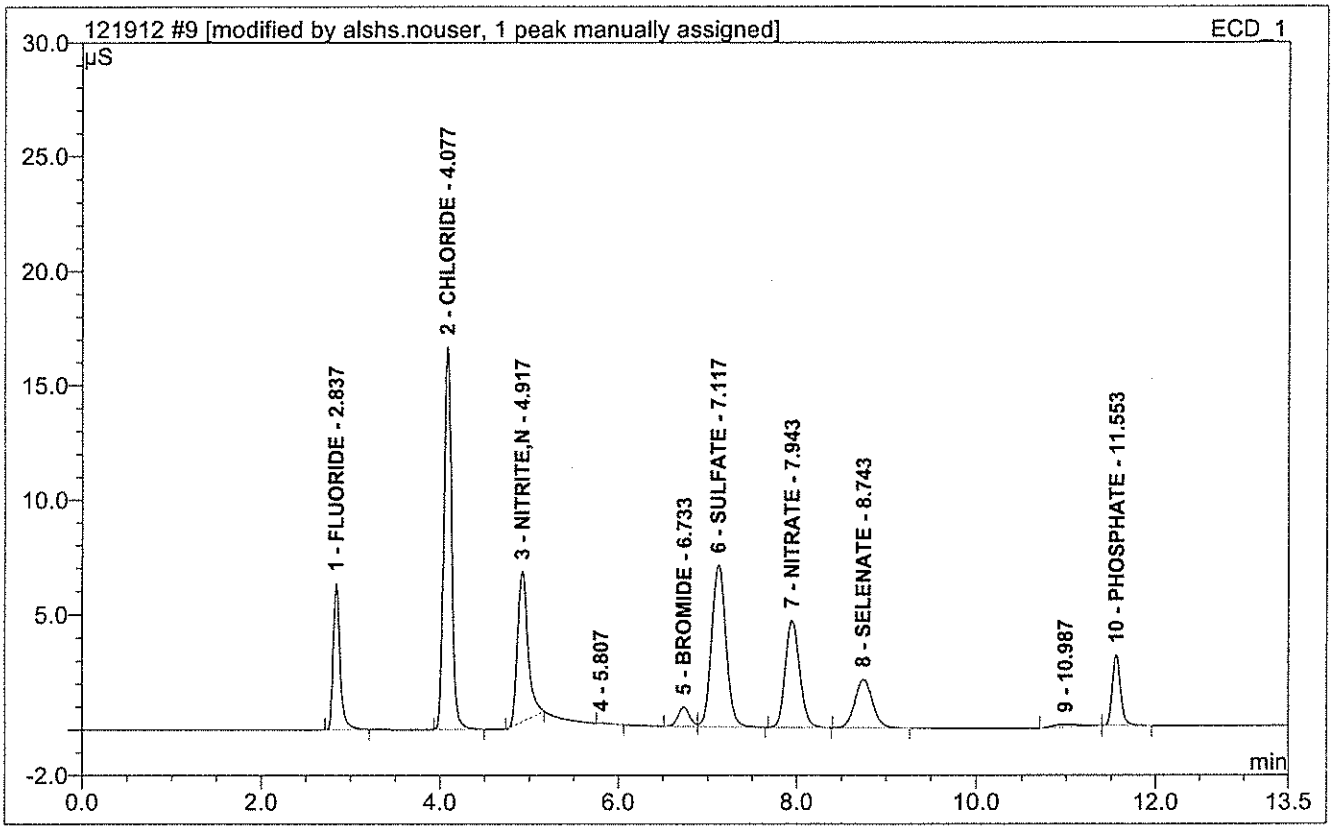
Sample Name:	**ICB**	*Injection Volume:*	**10.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/12/2012 15:05**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.98	FLUORIDE	0.024	0.002	0.32	0.016	1.
2	4.14	CHLORIDE	0.083	0.009	1.33	0.101	1.
4	7.41	SULFATE	0.039	0.008	1.18	0.119	1.
5	8.26	NITRATE	0.014	0.003	0.44	0.013	1.
6	9.12	SELENATE	2.065	0.487	72.42	5.222	1.
Total:			2.225	0.509	75.69	5.470	

9 CCV

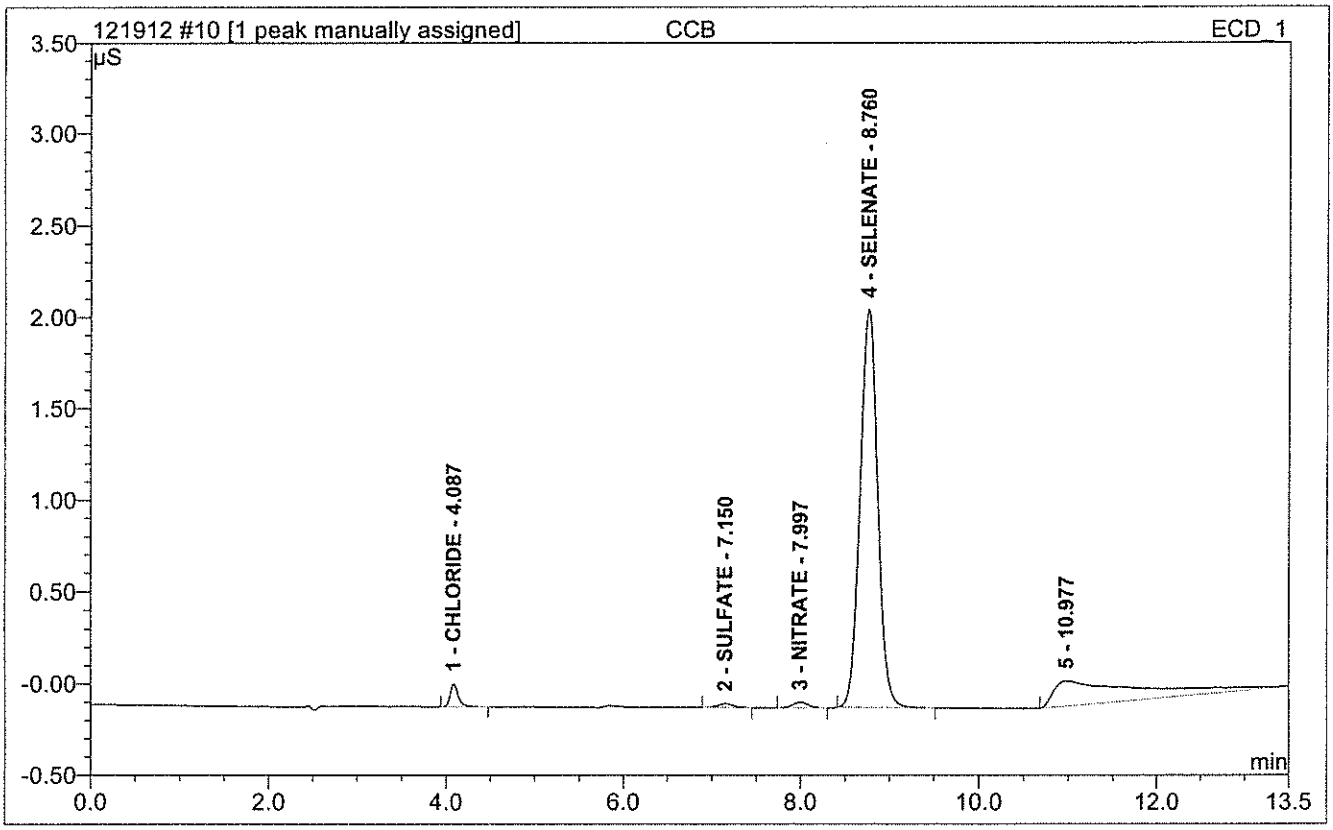
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 10:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	6.343	0.566	8.97	4.135	1.
2	4.08	CHLORIDE	16.688	1.679	26.61	18.841	1.
3	4.92	NITRITE,N	6.522	0.888	14.07	4.267	1.
5	6.73	BROMIDE	0.845	0.128	2.03	3.925	1.
6	7.12	SULFATE	7.034	1.322	20.95	19.783	1.
7	7.94	NITRATE	4.652	0.872	13.82	3.915	1.
8	8.74	SELENATE	2.106	0.483	7.65	5.173	1.
10	11.55	PHOSPHATE	3.059	0.328	5.20	4.033	1.
Total:			47.249	6.265	99.30	64.072	

10 CCB

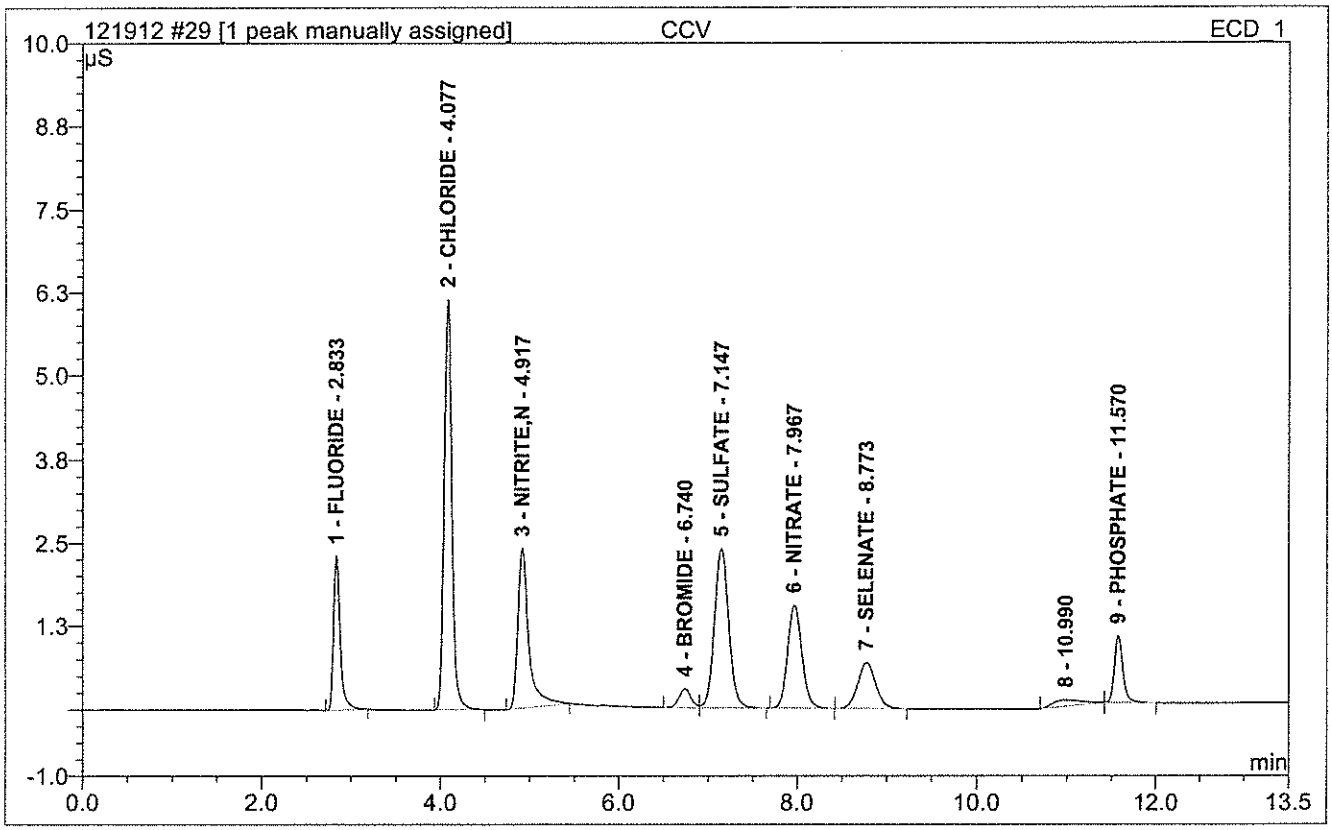
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 10:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.09	CHLORIDE	0.125	0.013	1.99	0.150	1.
2	7.15	SULFATE	0.021	0.004	0.61	0.061	1.
3	8.00	NITRATE	0.030	0.006	0.89	0.027	1.
4	8.76	SELENATE	2.172	0.499	74.28	5.341	1.
Total:			2.349	0.522	77.76	5.578	

29 CCV

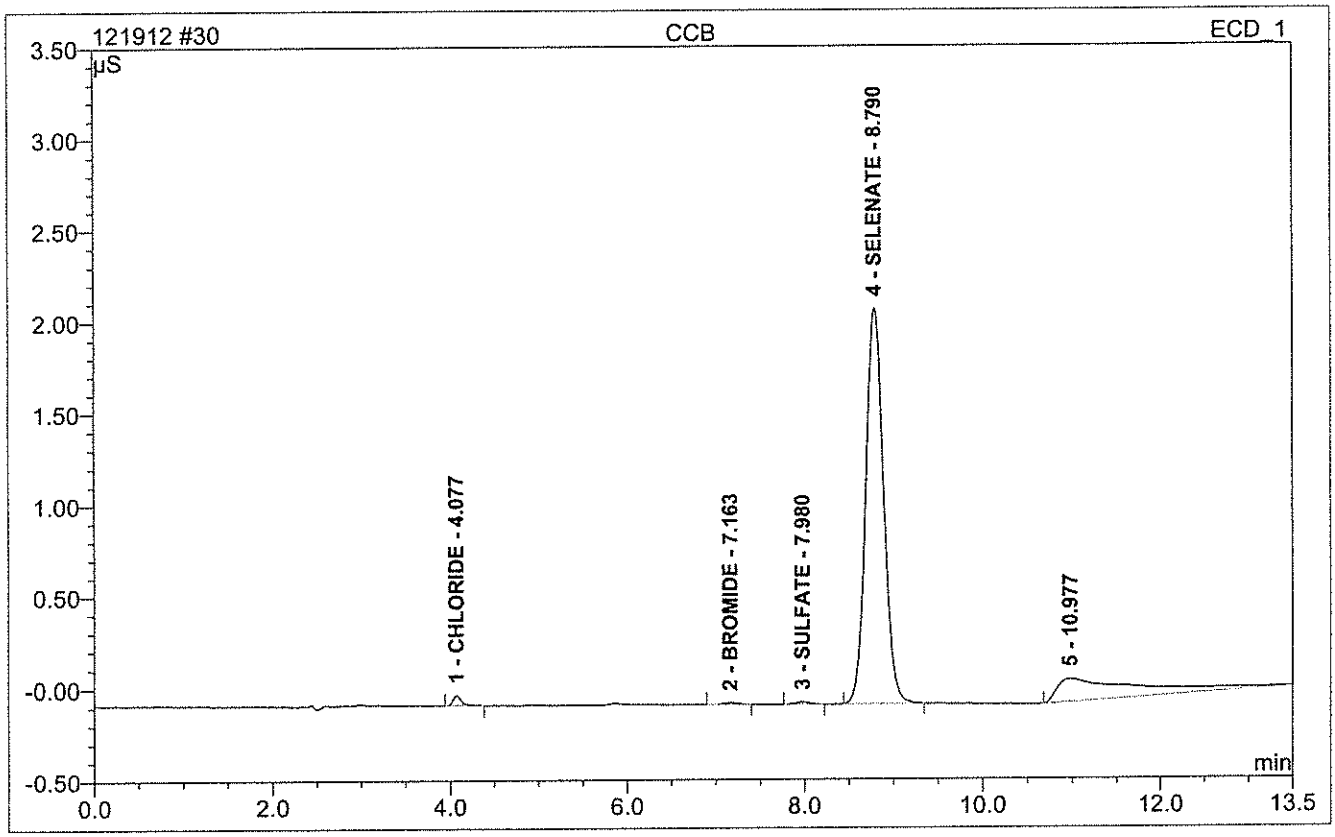
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 16:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	2.310	0.199	8.92	1.455	1.
2	4.08	CHLORIDE	6.156	0.619	27.73	6.944	1.
3	4.92	NITRITE,N	2.396	0.339	15.20	1.630	1.
4	6.74	BROMIDE	0.279	0.043	1.94	1.326	1.
5	7.15	SULFATE	2.390	0.443	19.84	6.623	1.
6	7.97	NITRATE	1.538	0.284	12.75	1.278	1.
7	8.77	SELENATE	0.689	0.160	7.15	1.710	1.
9	11.57	PHOSPHATE	1.001	0.109	4.88	1.341	1.
Total:			16.760	2.196	98.42	22.306	

30 CCB

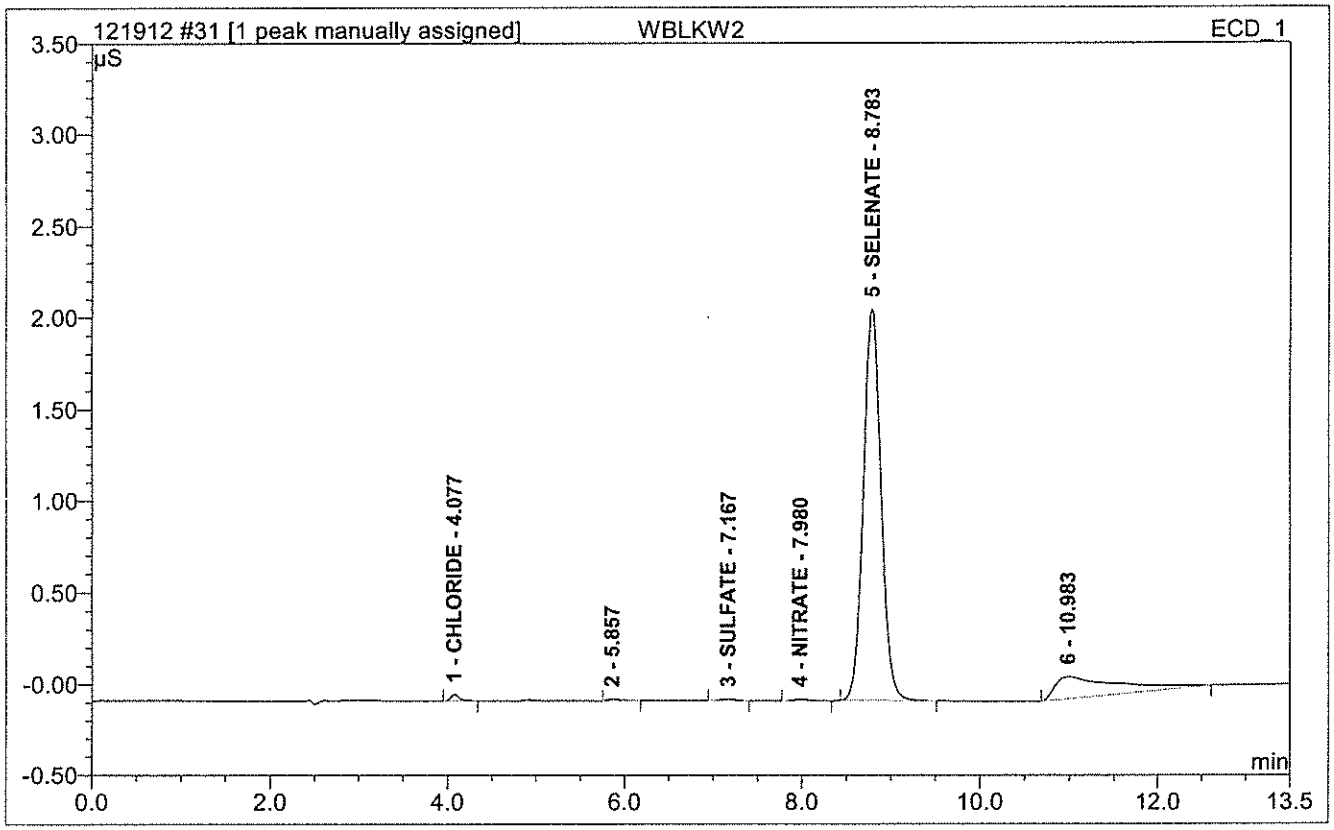
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 16:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.08	CHLORIDE	0.054	0.006	0.92	0.065	1.
2	7.16	BROMIDE	0.009	0.002	0.29	0.056	1.
3	7.98	SULFATE	0.012	0.002	0.36	0.034	1.
4	8.79	SELENATE	2.158	0.498	78.49	5.332	1.
Total:			2.233	0.508	80.05	5.487	

31 WBLKW2

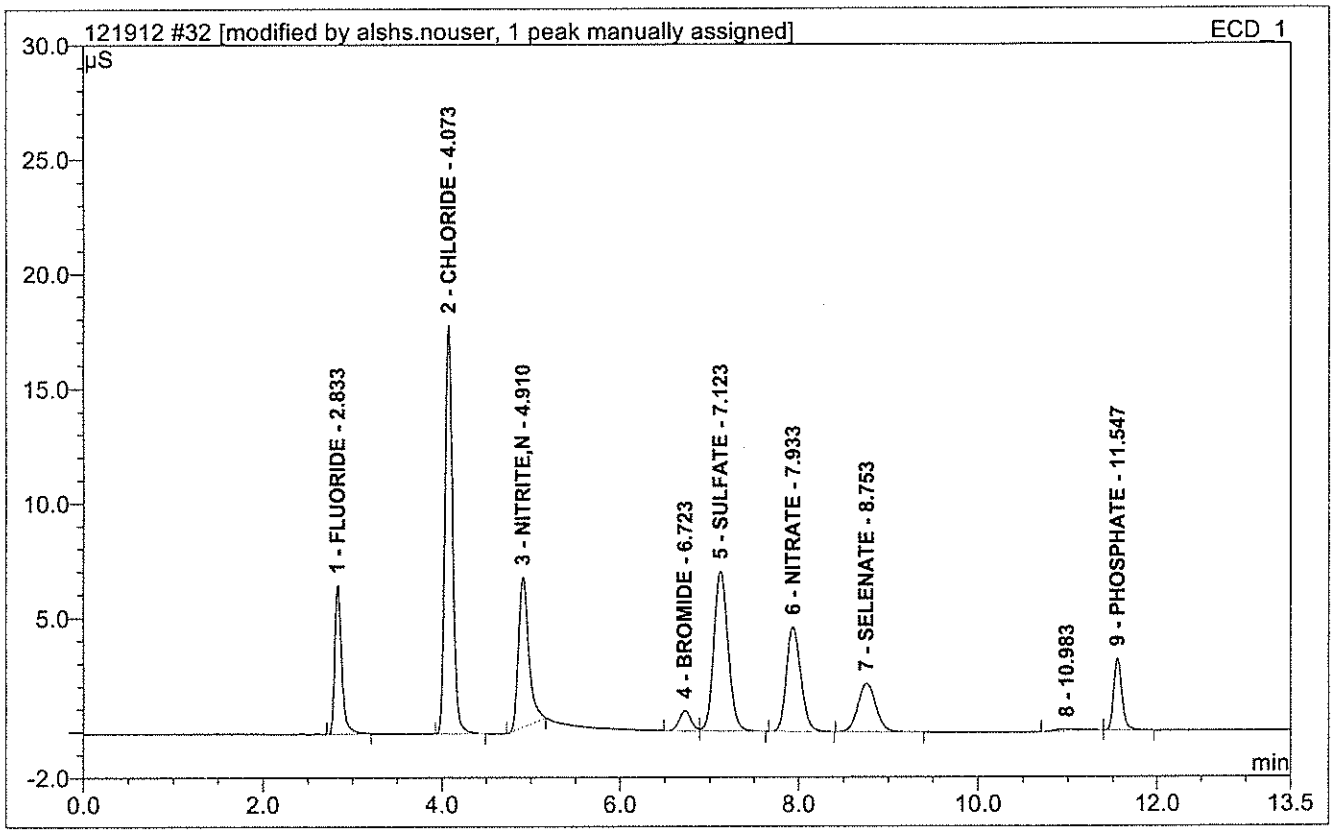
Sample Name:	**WBLKW2**	*Injection Volume:*	**10.0**
Vial Number:	**3**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 17:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.08	CHLORIDE	0.034	0.004	0.61	0.041	1.
3	7.17	SULFATE	0.009	0.002	0.30	0.027	1.
4	7.98	NITRATE	0.010	0.002	0.34	0.009	1.
5	8.78	SELENATE	2.134	0.493	82.85	5.280	1.
Total:			2.188	0.500	84.09	5.356	

32 WLCSW2

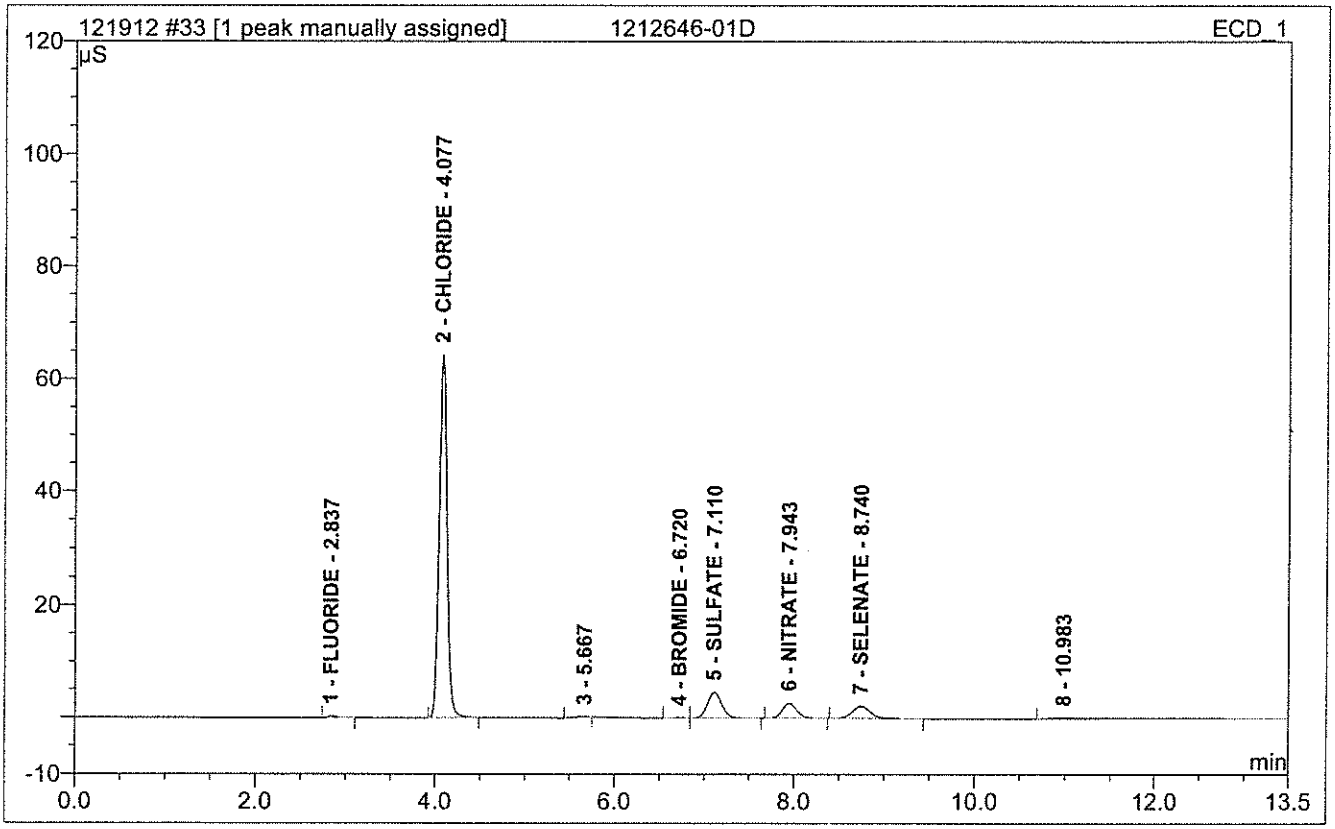
Sample Name:	**WLCSW2**	*Injection Volume:*	**10.0**
Vial Number:	**4**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 17:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	6.493	0.582	9.07	4.250	1.
2	4.07	CHLORIDE	17.809	1.790	27.92	20.087	1.
3	4.91	NITRITE,N	6.536	0.888	13.85	4.269	1.
4	6.72	BROMIDE	0.889	0.135	2.10	4.129	1.
5	7.12	SULFATE	6.954	1.304	20.35	19.517	1.
6	7.93	NITRATE	4.560	0.854	13.33	3.836	1.
7	8.75	SELENATE	2.118	0.491	7.66	5.261	1.
9	11.55	PHOSPHATE	3.125	0.333	5.20	4.099	1.
Total:			48.484	6.377	99.48	65.447	

33 1212646-01D

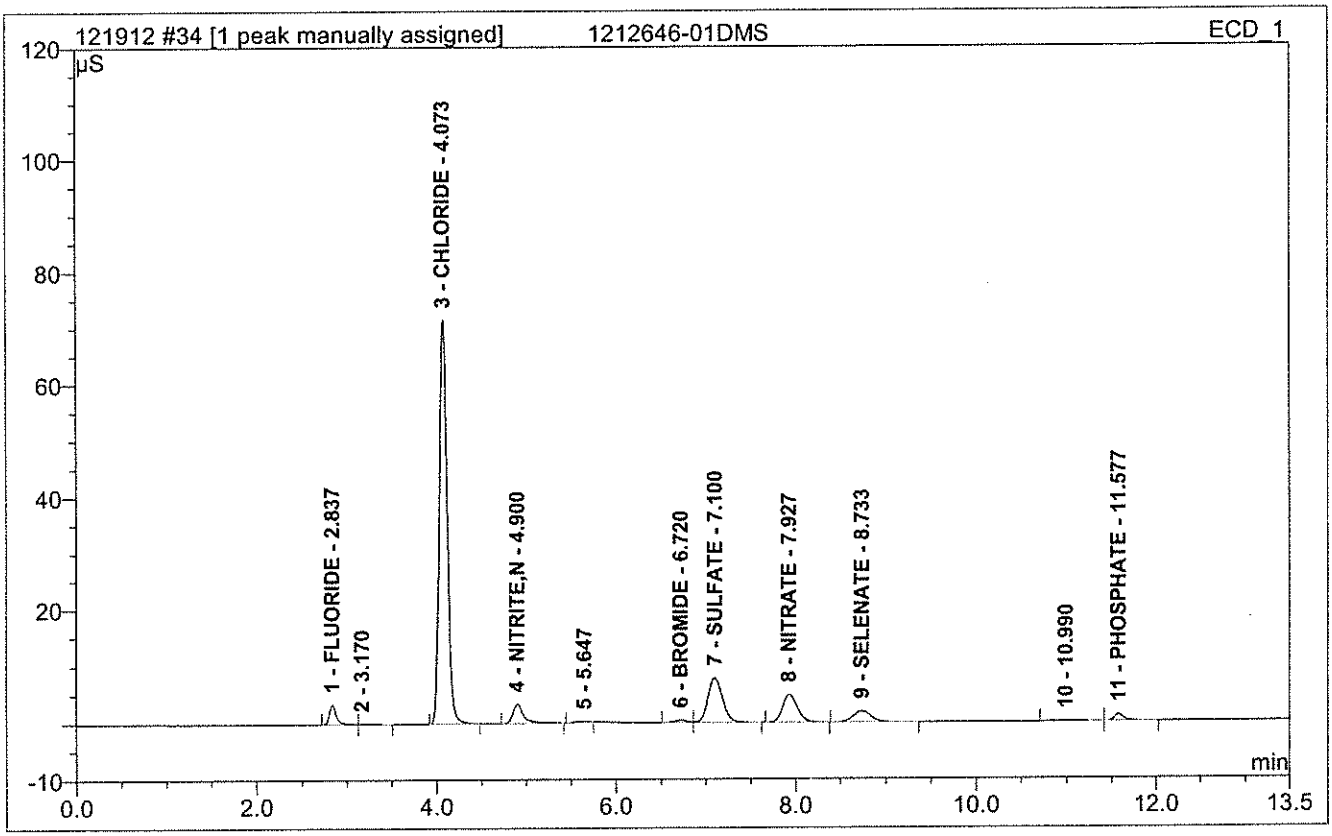
Sample Name:	**1212646-01D**	*Injection Volume:*	**10.0**
Vial Number:	**25**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 17:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	0.290	0.030	0.35	0.219	1.
2	4.08	CHLORIDE	64.402	6.515	76.13	73.111	1.
4	6.72	BROMIDE	0.045	0.006	0.07	0.194	1.
5	7.11	SULFATE	4.563	0.855	9.99	12.799	1.
6	7.94	NITRATE	2.692	0.499	5.83	2.241	1.
7	8.74	SELENATE	2.170	0.501	5.86	5.369	1.
Total:			74.163	8.406	98.23	93.933	

34 1212646-01DMS

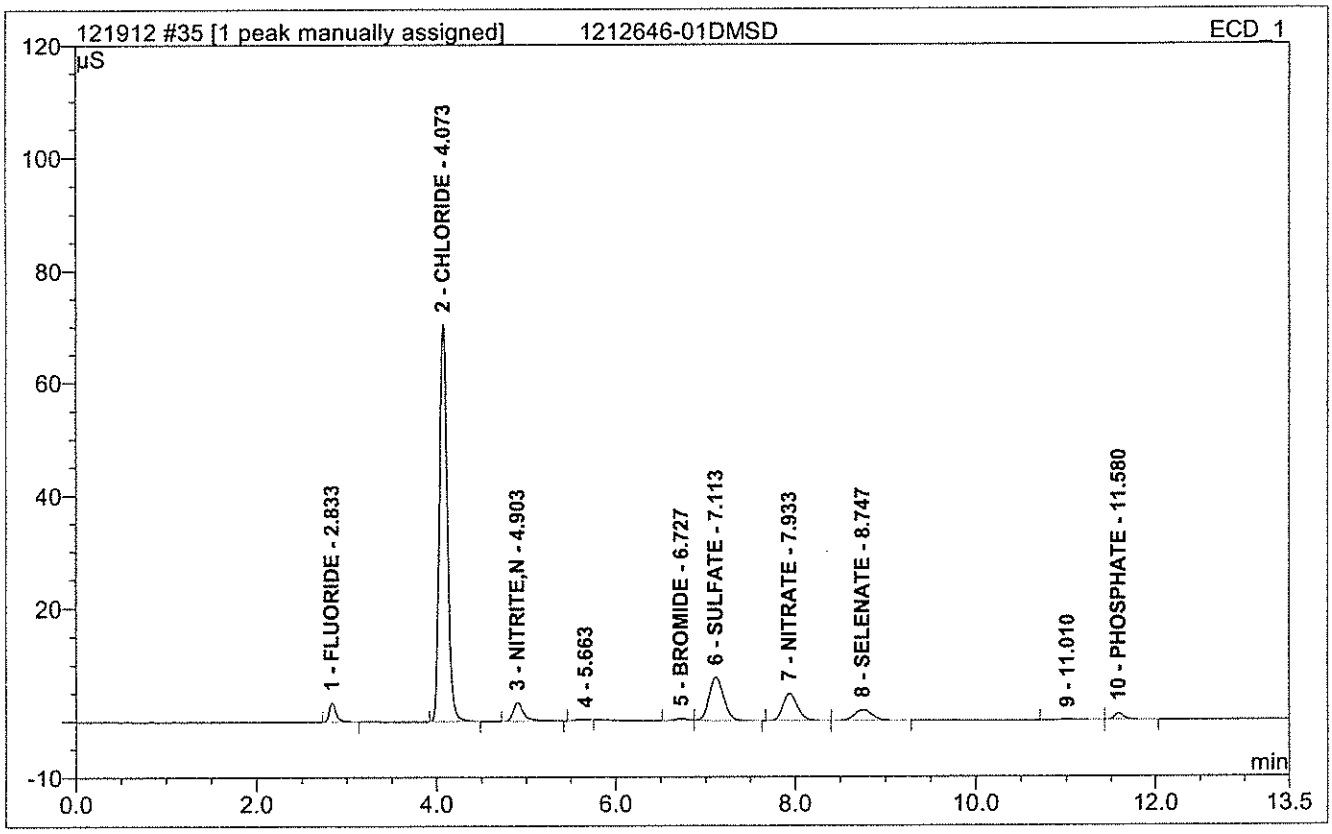
Sample Name:	**1212646-01DMS**	*Injection Volume:*	**10.0**
Vial Number:	**26**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 17:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	3.449	0.312	2.79	2.278	1.
3	4.07	CHLORIDE	71.612	7.255	65.00	81.421	1.
4	4.90	NITRITE,N	3.398	0.491	4.40	2.360	1.
6	6.72	BROMIDE	0.440	0.066	0.59	2.023	1.
7	7.10	SULFATE	7.841	1.481	13.27	22.163	1.
8	7.93	NITRATE	4.883	0.917	8.21	4.118	1.
9	8.73	SELENATE	1.949	0.448	4.02	4.802	1.
11	11.58	PHOSPHATE	1.147	0.130	1.16	1.598	1.
Total:			94.718	11.100	99.44	120.762	

35 1212646-01DMSD

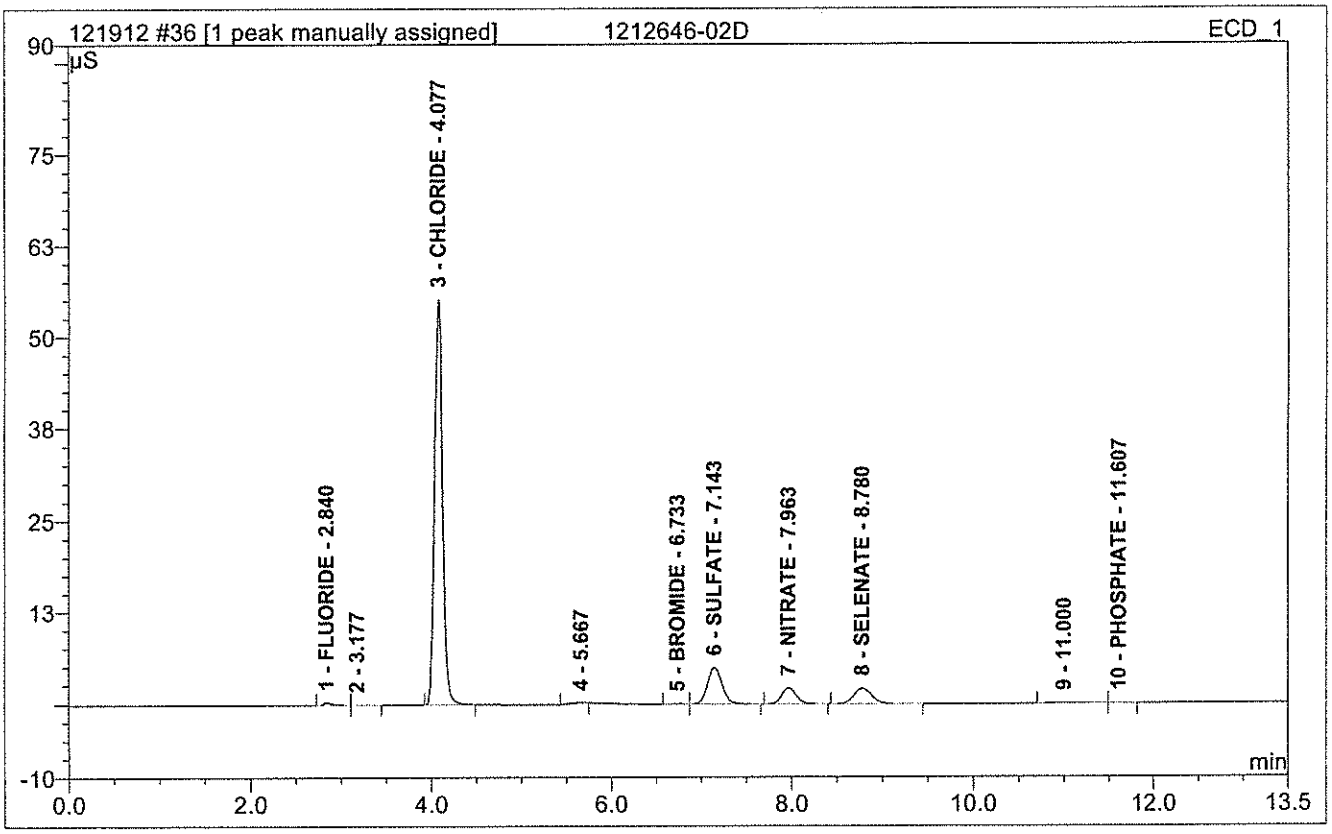
Sample Name:	**1212646-01DMSD**	*Injection Volume:*	**10.0**
Vial Number:	**27**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 18:09**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	3.391	0.300	2.74	2.192	1.
2	4.07	CHLORIDE	70.504	7.146	65.22	80.194	1.
3	4.90	NITRITE,N	3.332	0.470	4.29	2.262	1.
5	6.73	BROMIDE	0.431	0.064	0.59	1.978	1.
6	7.11	SULFATE	7.682	1.453	13.27	21.749	1.
7	7.93	NITRATE	4.808	0.900	8.22	4.043	1.
8	8.75	SELENATE	1.910	0.440	4.01	4.709	1.
10	11.58	PHOSPHATE	1.150	0.129	1.18	1.593	1.
Total:			93.207	10.903	99.52	118.720	

36 1212646-02D

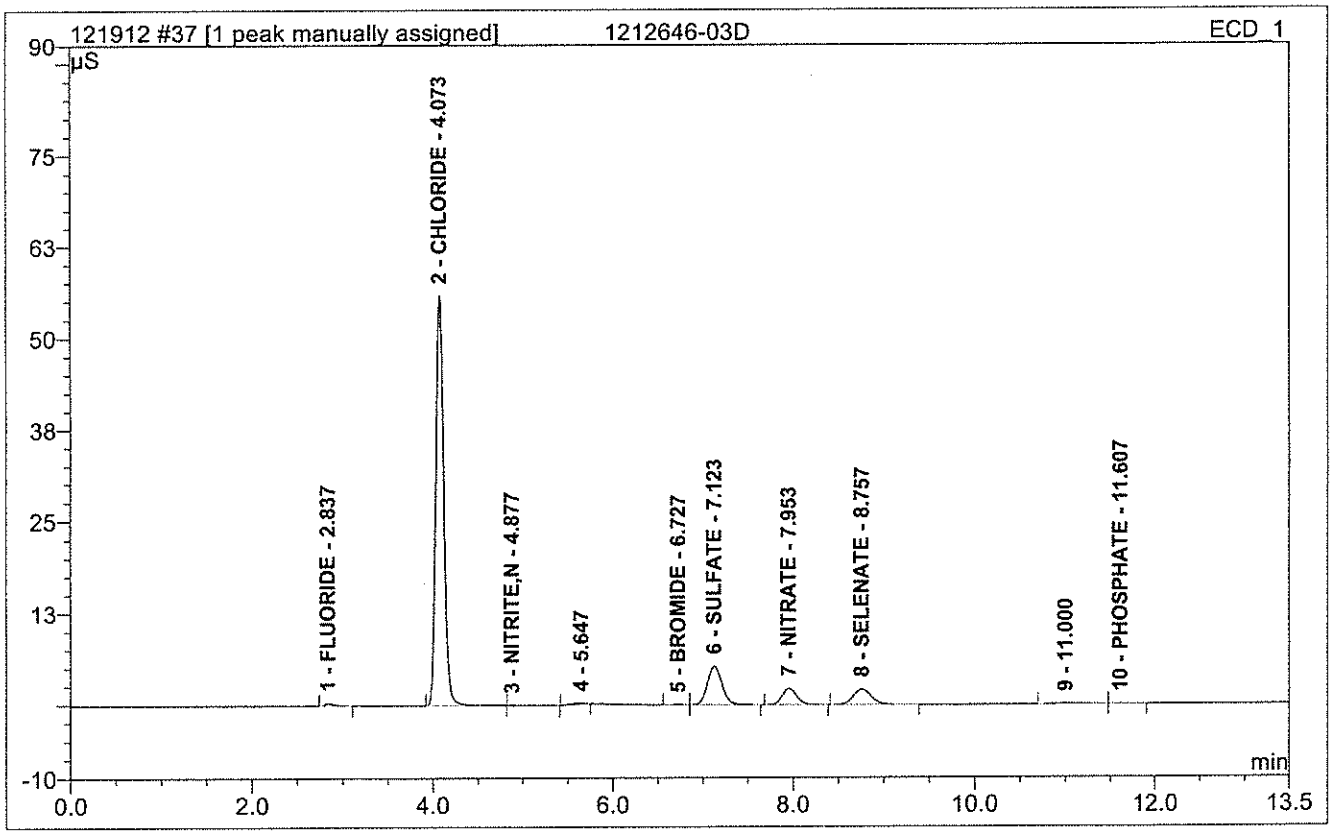
Sample Name:	**1212646-02D**	*Injection Volume:*	**10.0**
Vial Number:	**28**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 18:23**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	0.334	0.039	0.51	0.282	1.
3	4.08	CHLORIDE	55.320	5.603	74.54	62.880	1.
5	6.73	BROMIDE	0.040	0.006	0.07	0.170	1.
6	7.14	SULFATE	4.925	0.927	12.33	13.868	1.
7	7.96	NITRATE	2.154	0.398	5.30	1.789	1.
8	8.78	SELENATE	2.099	0.482	6.41	5.163	1.
10	11.61	PHOSPHATE	0.015	0.002	0.03	0.023	1.
Total:			64.888	7.456	99.19	84.175	

37 1212646-03D

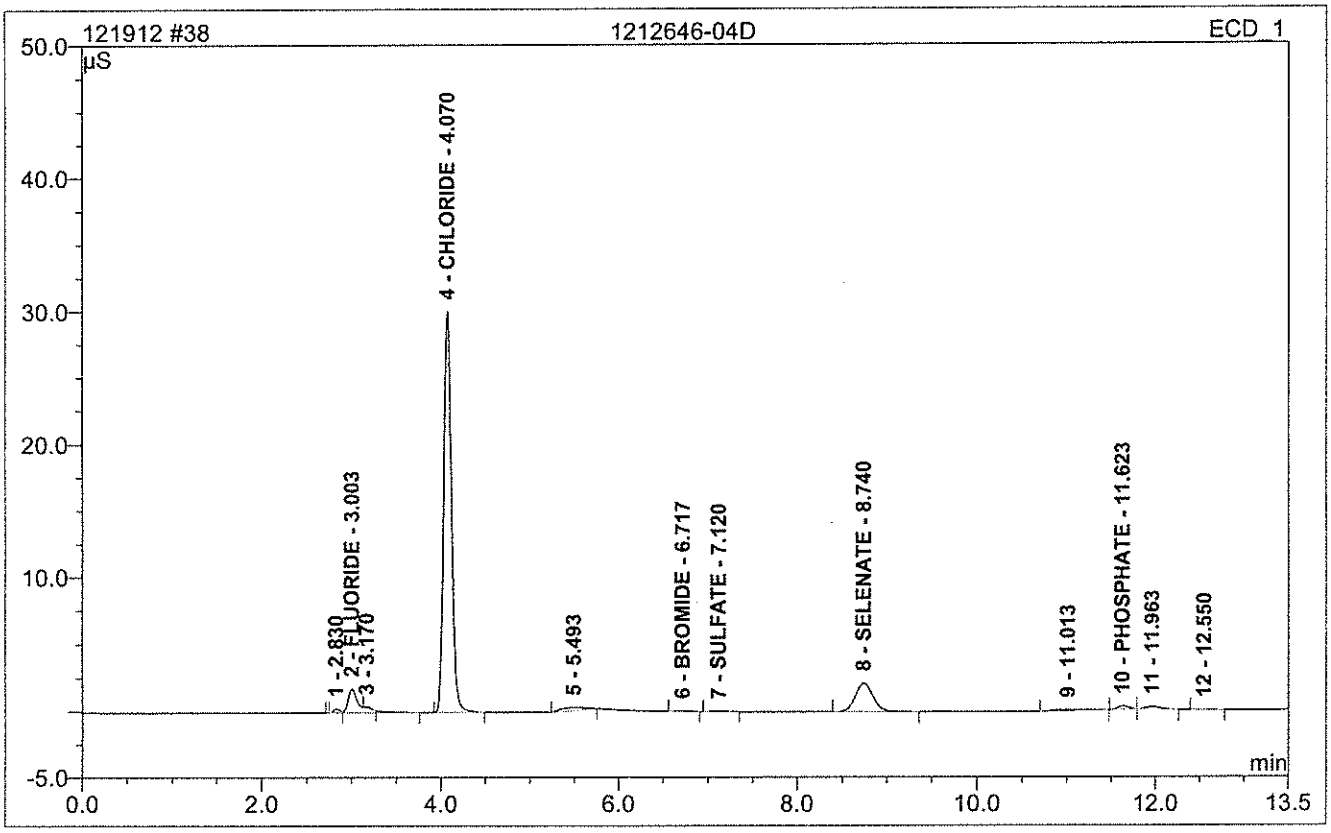
Sample Name:	**1212646-03D**	*Injection Volume:*	**10.0**
Vial Number:	**29**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 18:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	0.346	0.039	0.50	0.281	1.
2	4.07	CHLORIDE	55.890	5.682	73.85	63.764	1.
3	4.88	NITRITE,N	0.038	0.018	0.23	0.086	1.
5	6.73	BROMIDE	0.041	0.006	0.07	0.174	1.
6	7.12	SULFATE	5.265	0.988	12.84	14.779	1.
7	7.95	NITRATE	2.233	0.412	5.35	1.849	1.
8	8.76	SELENATE	2.116	0.488	6.34	5.225	1.
10	11.61	PHOSPHATE	0.015	0.002	0.03	0.027	1.
Total:			65.942	7.633	99.21	86.186	

38 1212646-04D

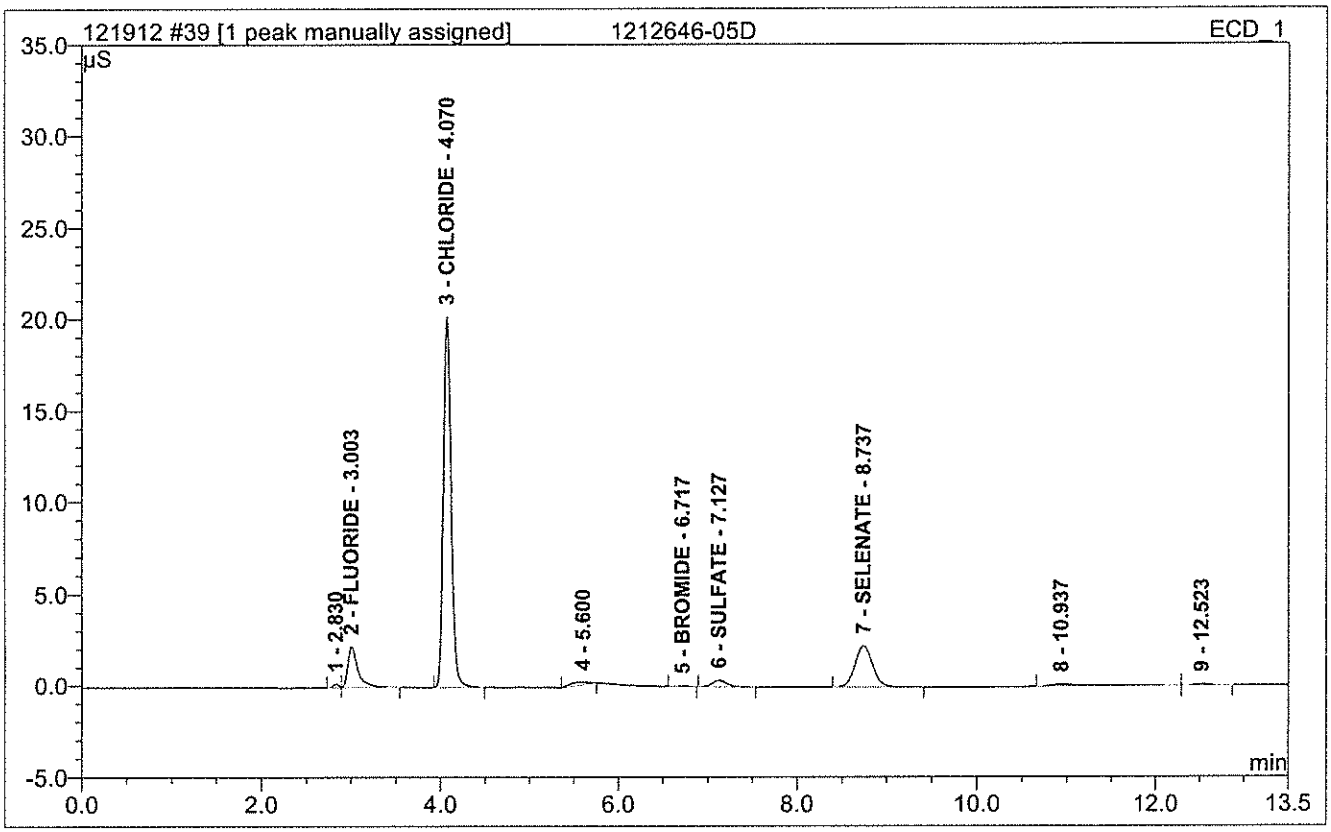
Sample Name:	**1212646-04D**	*Injection Volume:*	**10.0**
Vial Number:	**30**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 18:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	3.00	FLUORIDE	1.781	0.270	6.74	1.974	1.
4	4.07	CHLORIDE	30.062	3.035	75.69	34.058	1.
6	6.72	BROMIDE	0.041	0.006	0.16	0.192	1.
7	7.12	SULFATE	0.039	0.007	0.17	0.102	1.
8	8.74	SELENATE	2.125	0.486	12.13	5.211	1.
10	11.62	PHOSPHATE	0.253	0.034	0.84	0.416	1.
Total:			34.303	3.838	95.73	41.954	

39 1212646-05D

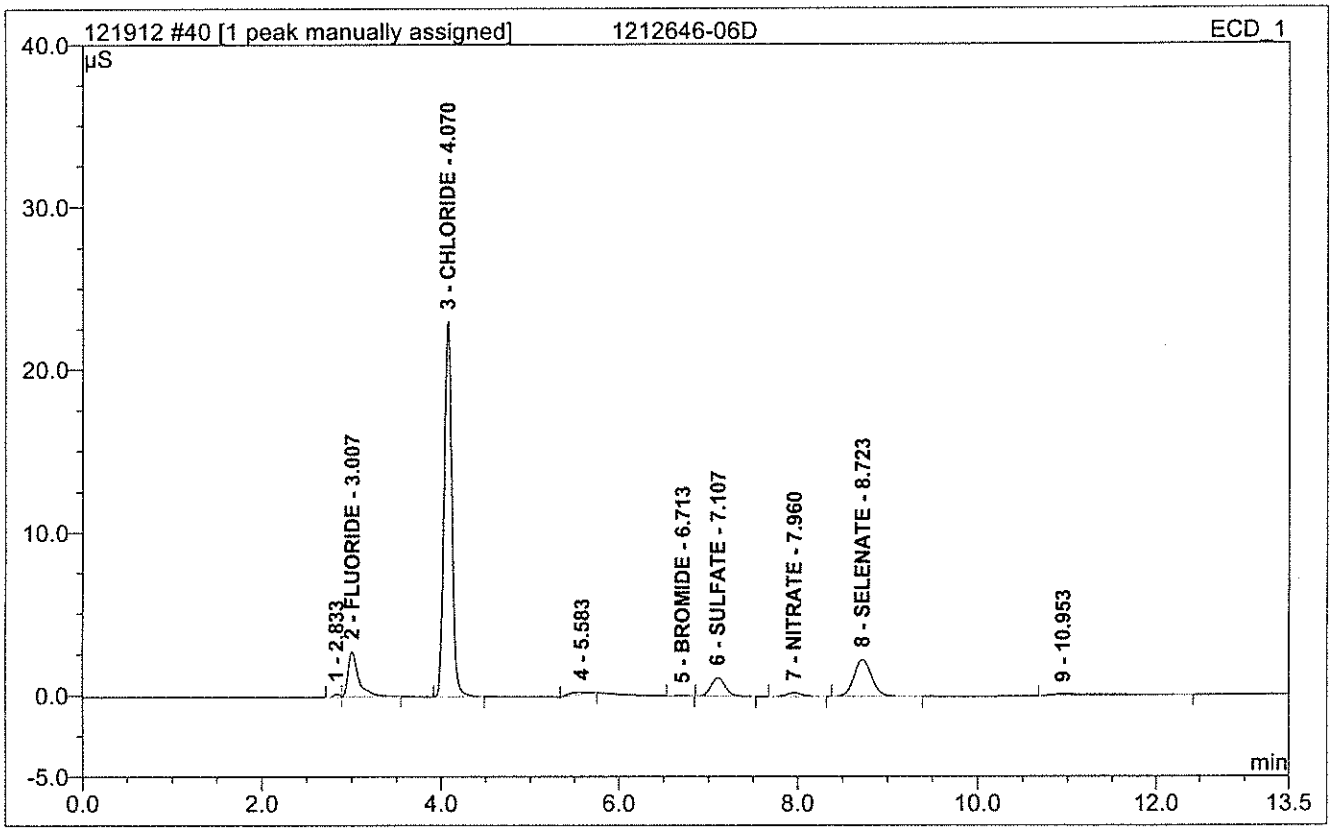
Sample Name:	**1212646-05D**	*Injection Volume:*	**10.0**
Vial Number:	**31**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 19:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	3.00	FLUORIDE	2.234	0.293	9.60	2.137	1.
3	4.07	CHLORIDE	20.208	2.030	66.66	22.785	1.
5	6.72	BROMIDE	0.033	0.005	0.15	0.143	1.
6	7.13	SULFATE	0.355	0.066	2.17	0.988	1.
7	8.74	SELENATE	2.249	0.515	16.92	5.522	1.
Total:			25.080	2.909	95.50	31.575	

40 1212646-06D

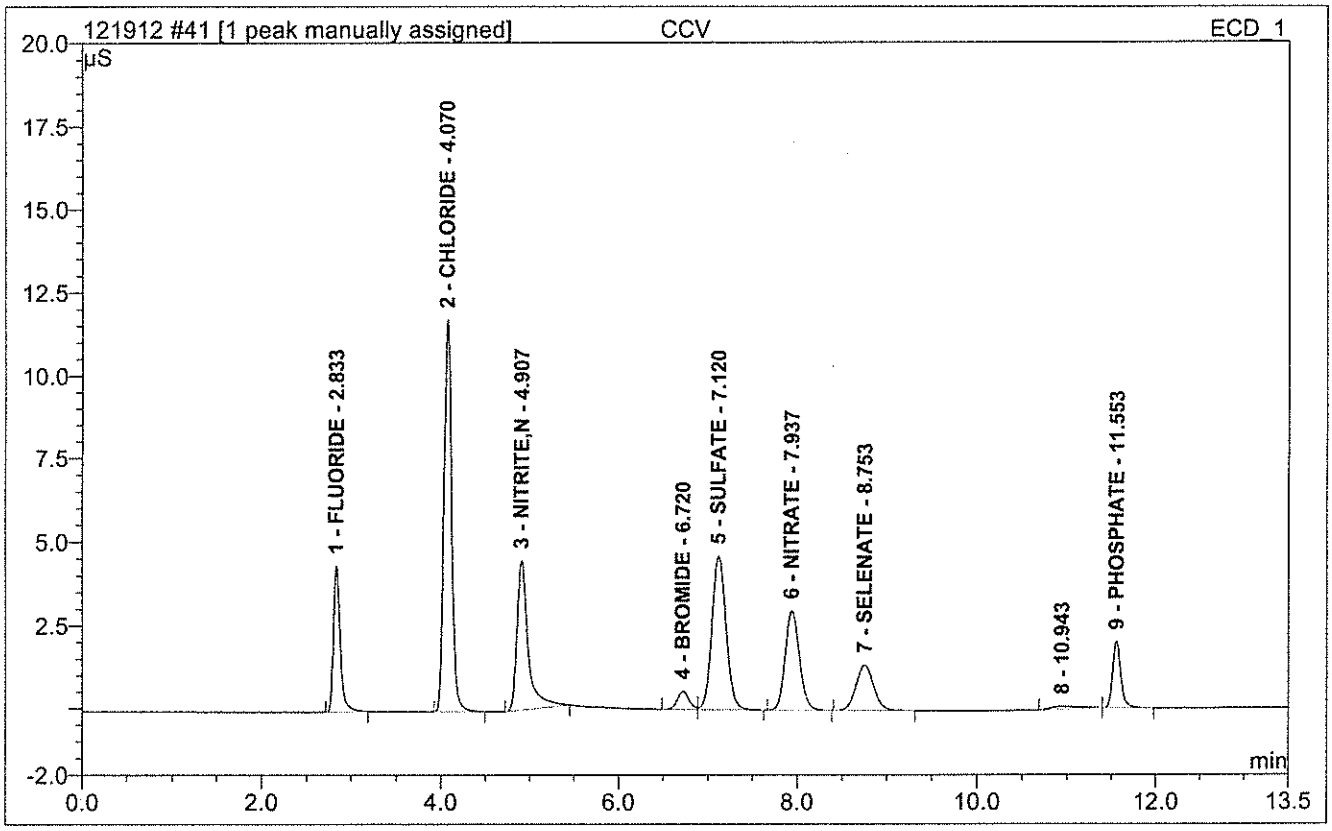
Sample Name:	**1212646-06D**	*Injection Volume:*	**10.0**
Vial Number:	**32**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 19:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	3.01	FLUORIDE	2.754	0.376	10.48	2.750	1.
3	4.07	CHLORIDE	23.057	2.315	64.48	25.977	1.
5	6.71	BROMIDE	0.031	0.004	0.11	0.125	1.
6	7.11	SULFATE	1.124	0.207	5.77	3.098	1.
7	7.96	NITRATE	0.223	0.042	1.18	0.190	1.
8	8.72	SELENATE	2.244	0.512	14.26	5.483	1.
Total:			29.432	3.456	96.28	37.623	

41 CCV

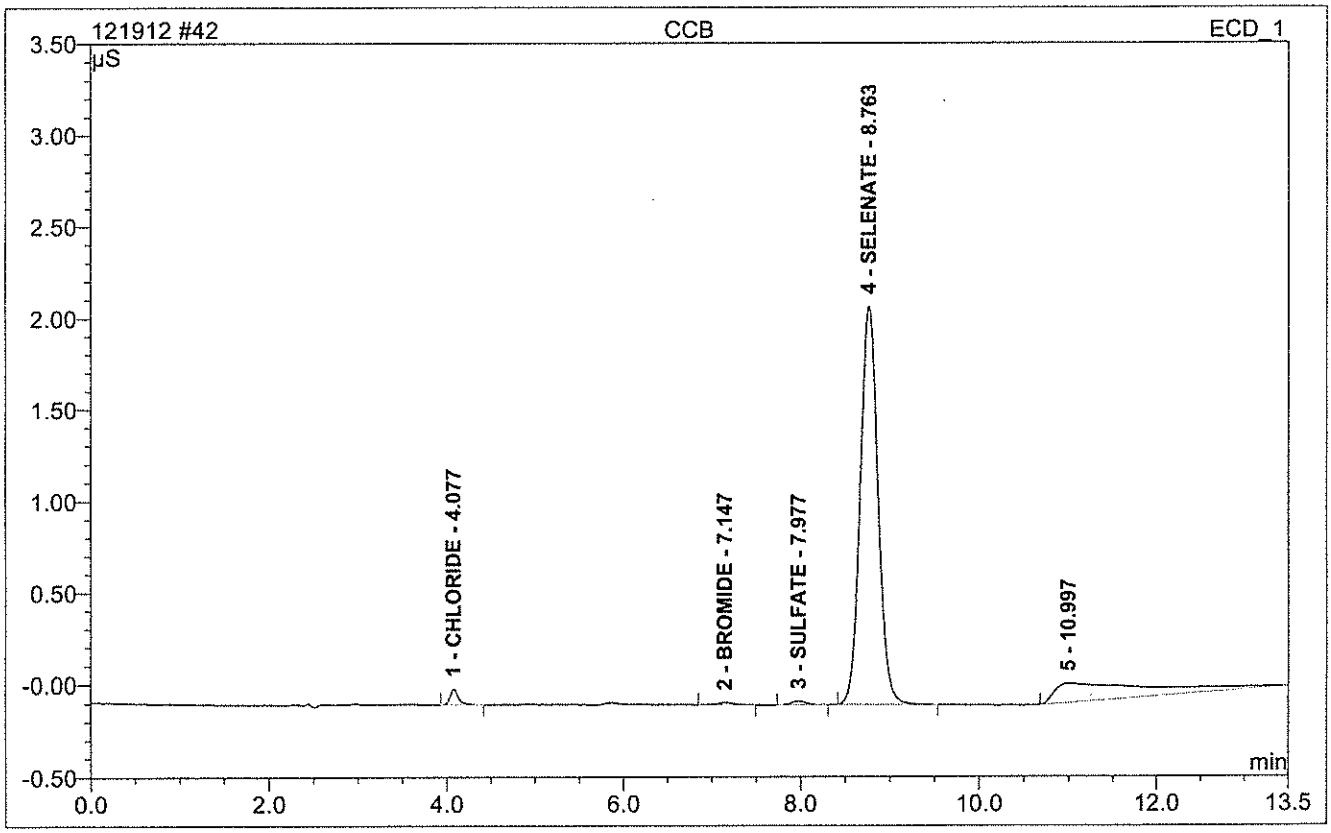
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 19:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	4.392	0.382	8.96	2.795	1.
2	4.07	CHLORIDE	11.784	1.181	27.67	13.257	1.
3	4.91	NITRITE,N	4.485	0.661	15.47	3.176	1.
4	6.72	BROMIDE	0.553	0.084	1.97	2.579	1.
5	7.12	SULFATE	4.605	0.856	20.05	12.811	1.
6	7.94	NITRATE	2.980	0.552	12.94	2.481	1.
7	8.75	SELENATE	1.368	0.313	7.33	3.353	1.
9	11.55	PHOSPHATE	1.983	0.211	4.95	2.601	1.
Total:			32.149	4.242	99.35	43.054	

42 CCB

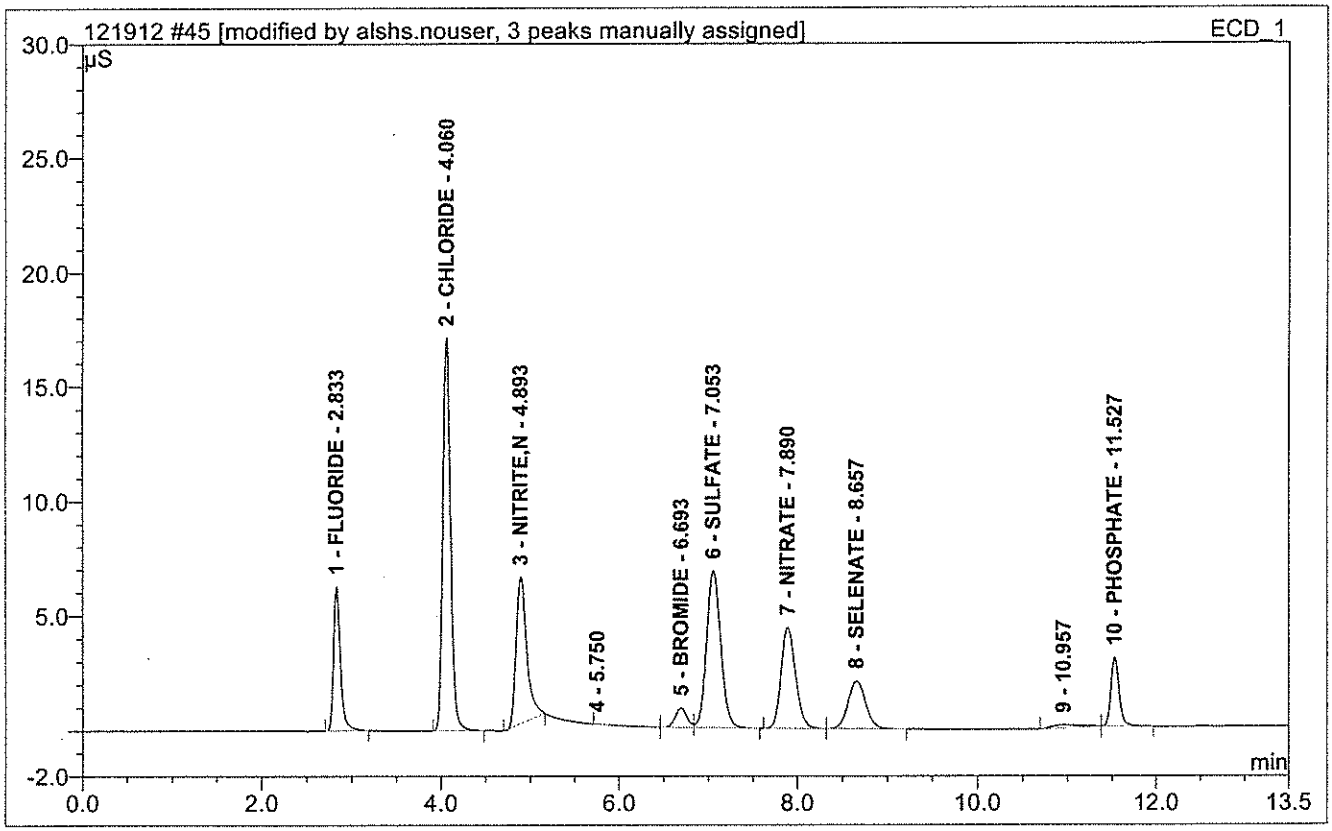
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/19/2012 19:51**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.08	CHLORIDE	0.082	0.009	1.38	0.099	1.
2	7.15	BROMIDE	0.013	0.003	0.43	0.084	1.
3	7.98	SULFATE	0.020	0.004	0.61	0.058	1.
4	8.76	SELENATE	2.173	0.499	78.17	5.348	1.
Total:			2.287	0.515	80.57	5.588	

45 CCV

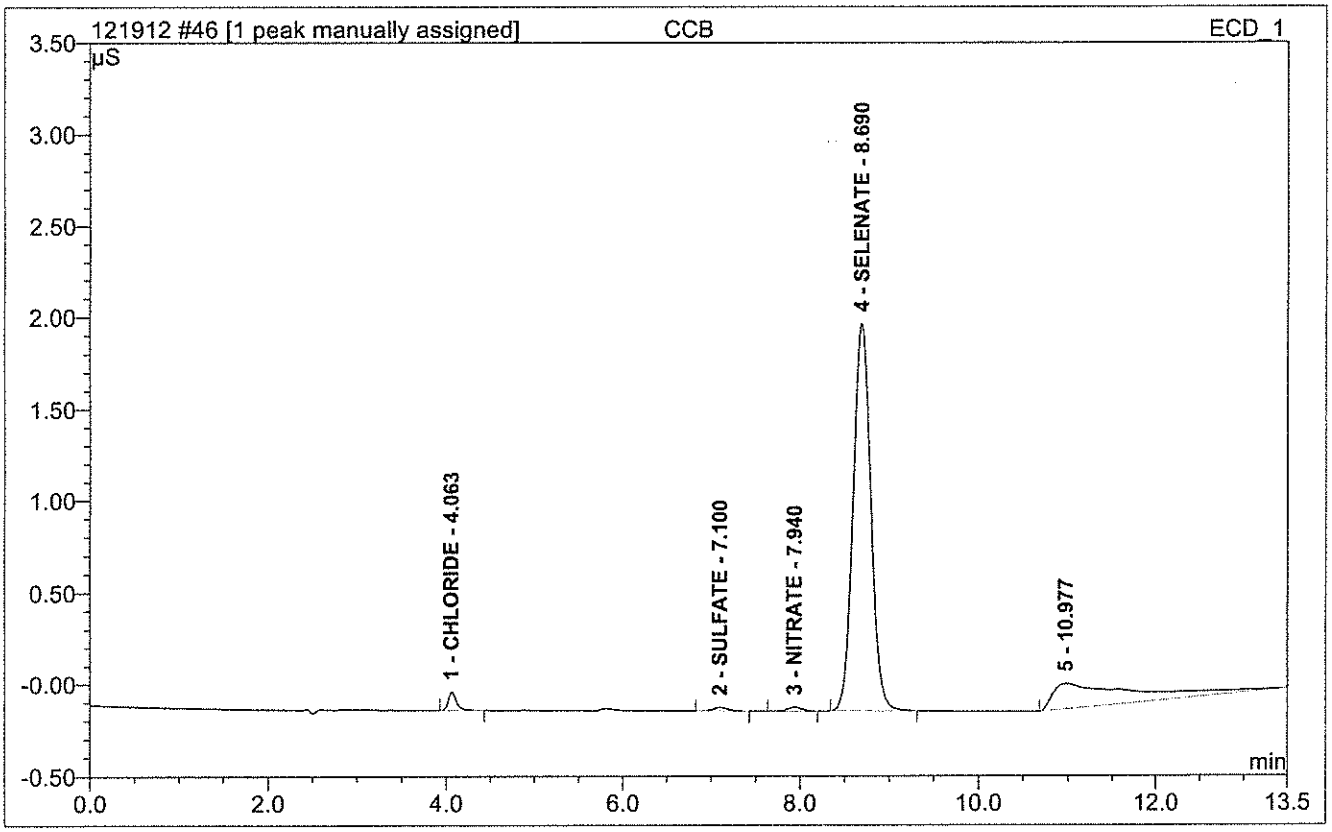
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 9:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	6.269	0.560	8.99	4.092	1.
2	4.06	CHLORIDE	17.115	1.729	27.75	19.405	1.
3	4.89	NITRITE,N	6.357	0.885	14.21	4.256	1.
5	6.69	BROMIDE	0.842	0.127	2.04	3.904	1.
6	7.05	SULFATE	6.817	1.264	20.28	18.914	1.
7	7.89	NITRATE	4.389	0.825	13.23	3.704	1.
8	8.66	SELENATE	2.074	0.471	7.56	5.049	1.
10	11.53	PHOSPHATE	2.969	0.318	5.10	3.914	1.
Total:			46.832	6.180	99.16	63.239	

46 CCB

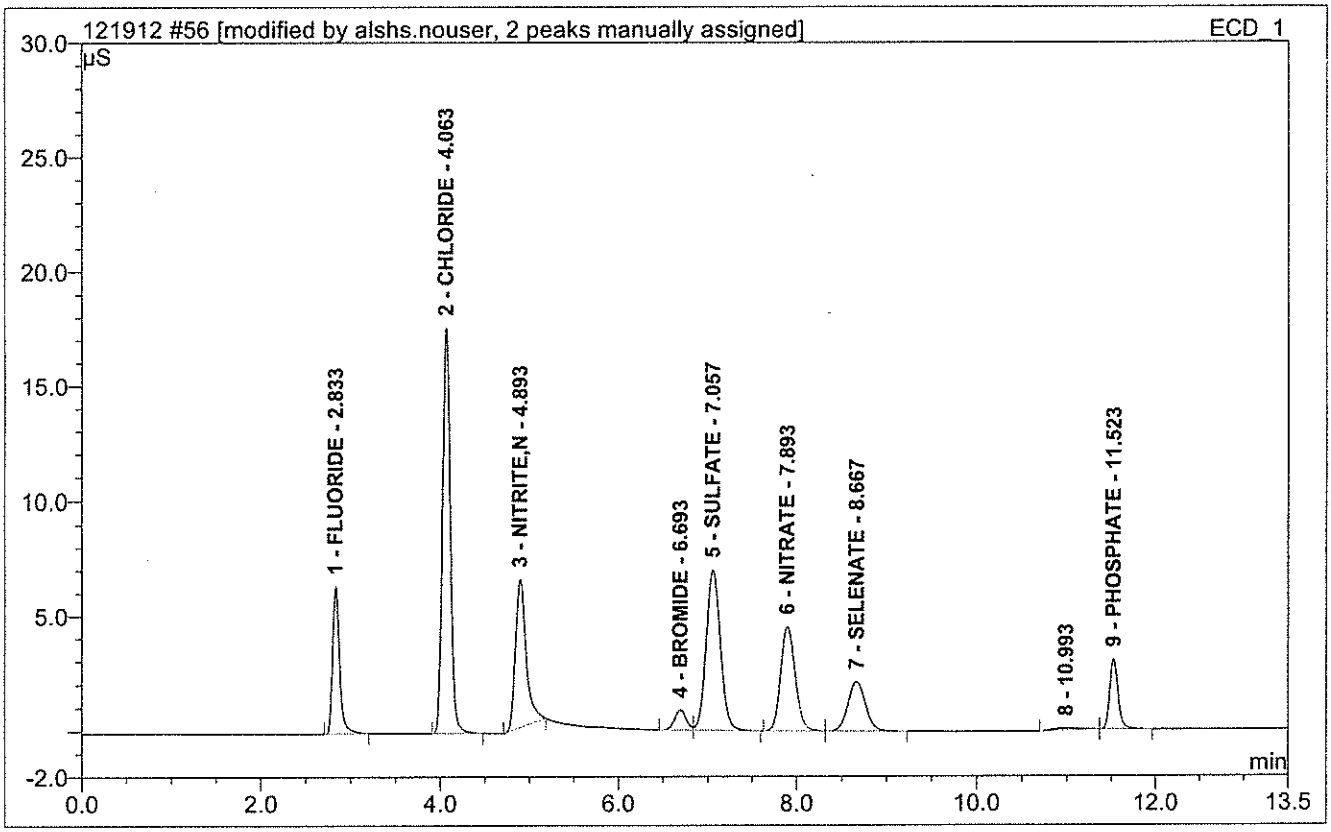
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 9:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.06	CHLORIDE	0.099	0.011	1.64	0.119	1.
2	7.10	SULFATE	0.020	0.004	0.58	0.057	1.
3	7.94	NITRATE	0.023	0.004	0.69	0.020	1.
4	8.69	SELENATE	2.111	0.485	75.10	5.200	1.
Total:			2.252	0.504	78.01	5.396	

56 CCV

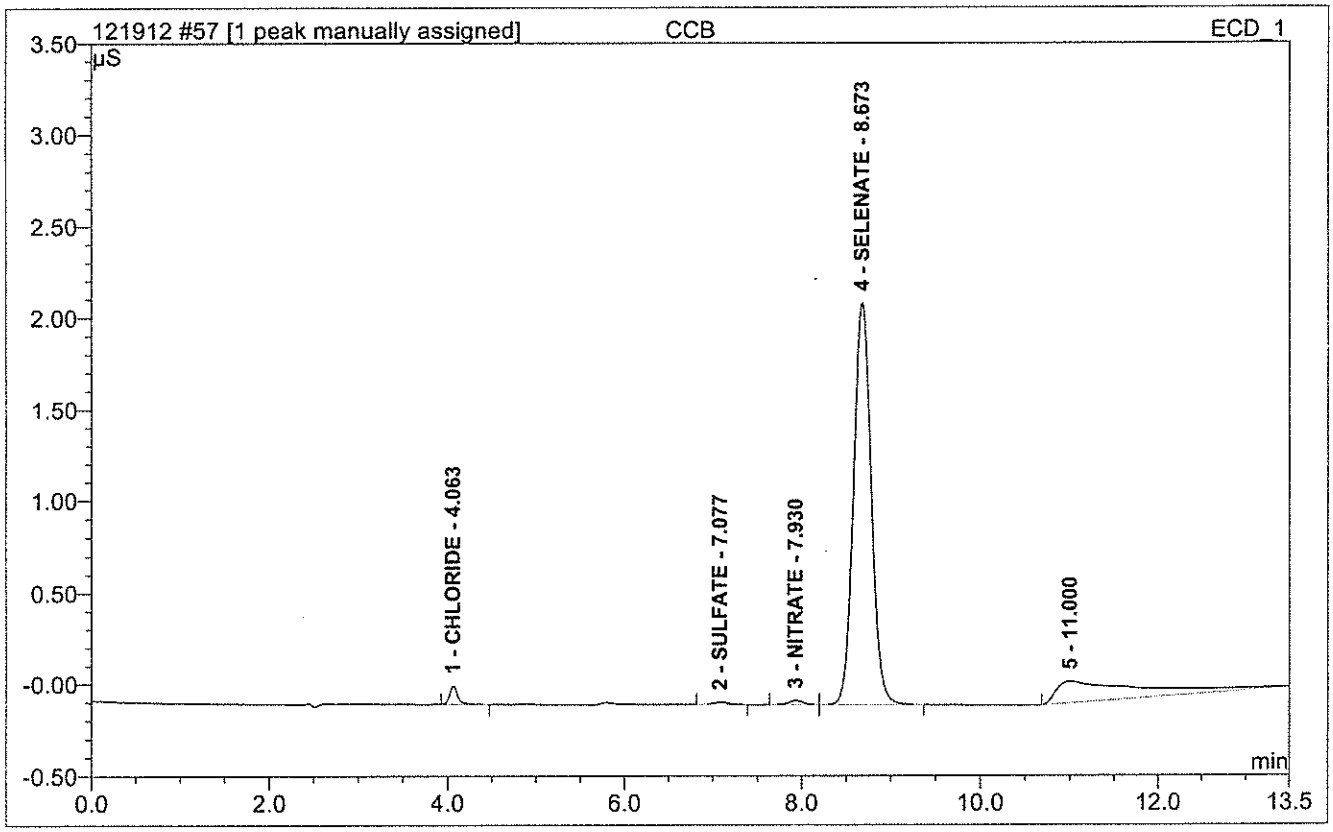
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 12:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	6.425	0.578	9.02	4.223	1.
2	4.06	CHLORIDE	17.667	1.788	27.92	20.070	1.
3	4.89	NITRITE,N	6.464	0.906	14.15	4.356	1.
4	6.69	BROMIDE	0.869	0.131	2.05	4.033	1.
5	7.06	SULFATE	6.989	1.307	20.41	19.562	1.
6	7.89	NITRATE	4.535	0.853	13.32	3.831	1.
7	8.67	SELENATE	2.141	0.485	7.58	5.198	1.
9	11.52	PHOSPHATE	3.040	0.326	5.09	4.014	1.
Total:			48.130	6.376	99.54	65.287	

57 CCB

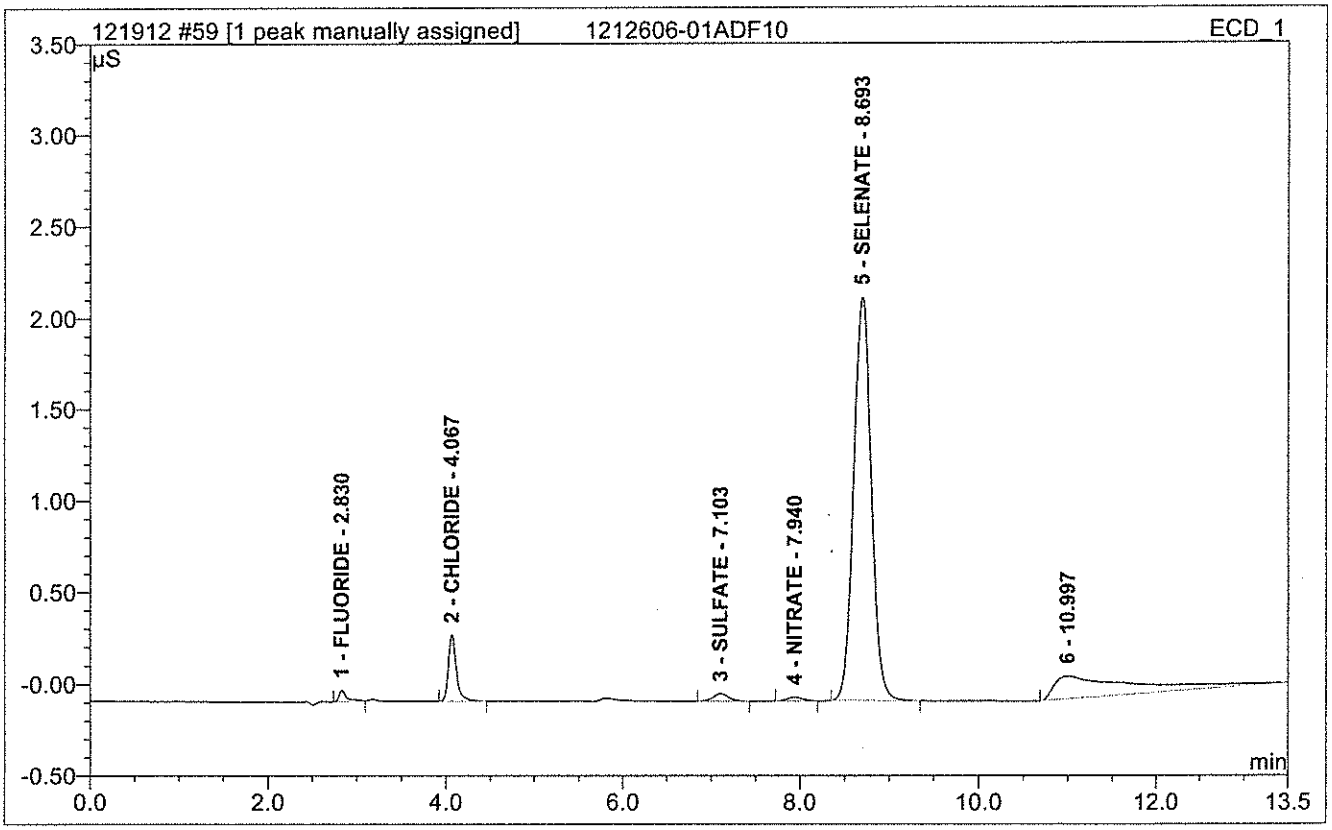
Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 12:32**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	4.06	CHLORIDE	0.101	0.011	1.66	0.120	1.
2	7.08	SULFATE	0.014	0.003	0.43	0.041	1.
3	7.93	NITRATE	0.023	0.005	0.70	0.020	1.
4	8.67	SELENATE	2.192	0.503	77.75	5.385	1.
Total:			2.329	0.521	80.54	5.567	

59 1212606-01ADF10

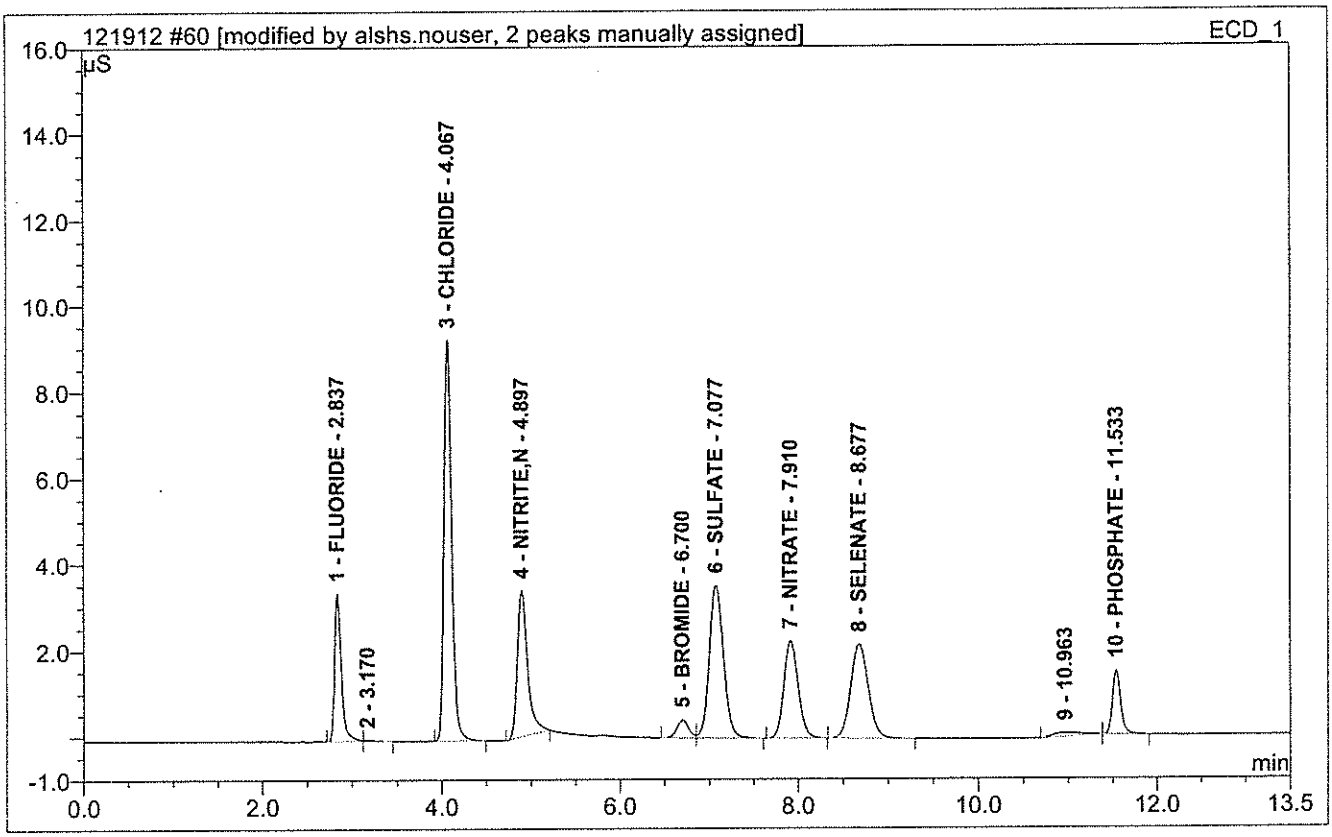
Sample Name:	**1212606-01ADF10**	*Injection Volume:*	**10.0**
Vial Number:	**52**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**10.**
Recording Time:	**12/20/2012 13:30**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	0.061	0.006	0.87	0.432	10.
2	4.07	CHLORIDE	0.359	0.037	5.48	4.193	10.
3	7.10	SULFATE	0.040	0.008	1.14	1.162	10.
4	7.94	NITRATE	0.021	0.004	0.59	0.179	10.
5	8.69	SELENATE	2.203	0.504	73.82	53.954	10.
Total:			2.684	0.559	81.89	59.920	

60 1212606-01AMSDF10

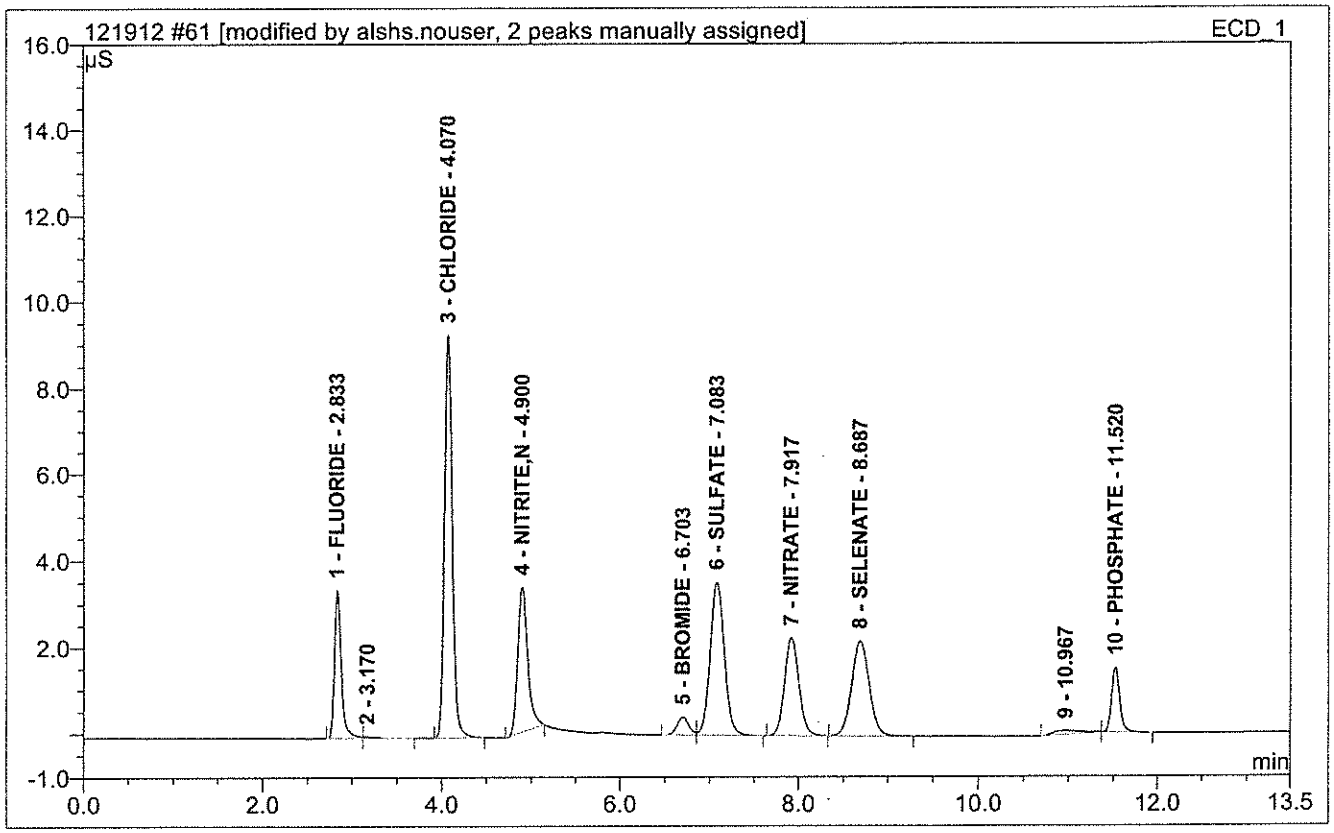
Sample Name:	**1212606-01AMSDF10**	*Injection Volume:*	**10.0**
Vial Number:	**53**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**10.**
Recording Time:	**12/20/2012 13:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.84	FLUORIDE	3.417	0.299	8.54	21.865	10.
3	4.07	CHLORIDE	9.284	0.932	26.60	104.634	10.
4	4.90	NITRITE,N	3.377	0.451	12.86	21.674	10.
5	6.70	BROMIDE	0.412	0.063	1.80	19.379	10.
6	7.08	SULFATE	3.533	0.653	18.63	97.702	10.
7	7.91	NITRATE	2.253	0.419	11.95	18.811	10.
8	8.68	SELENATE	2.178	0.496	14.14	53.105	10.
10	11.53	PHOSPHATE	1.469	0.155	4.43	19.122	10.
Total:			25.923	3.468	98.95	356.293	

61 1212606-01AMSDDF10

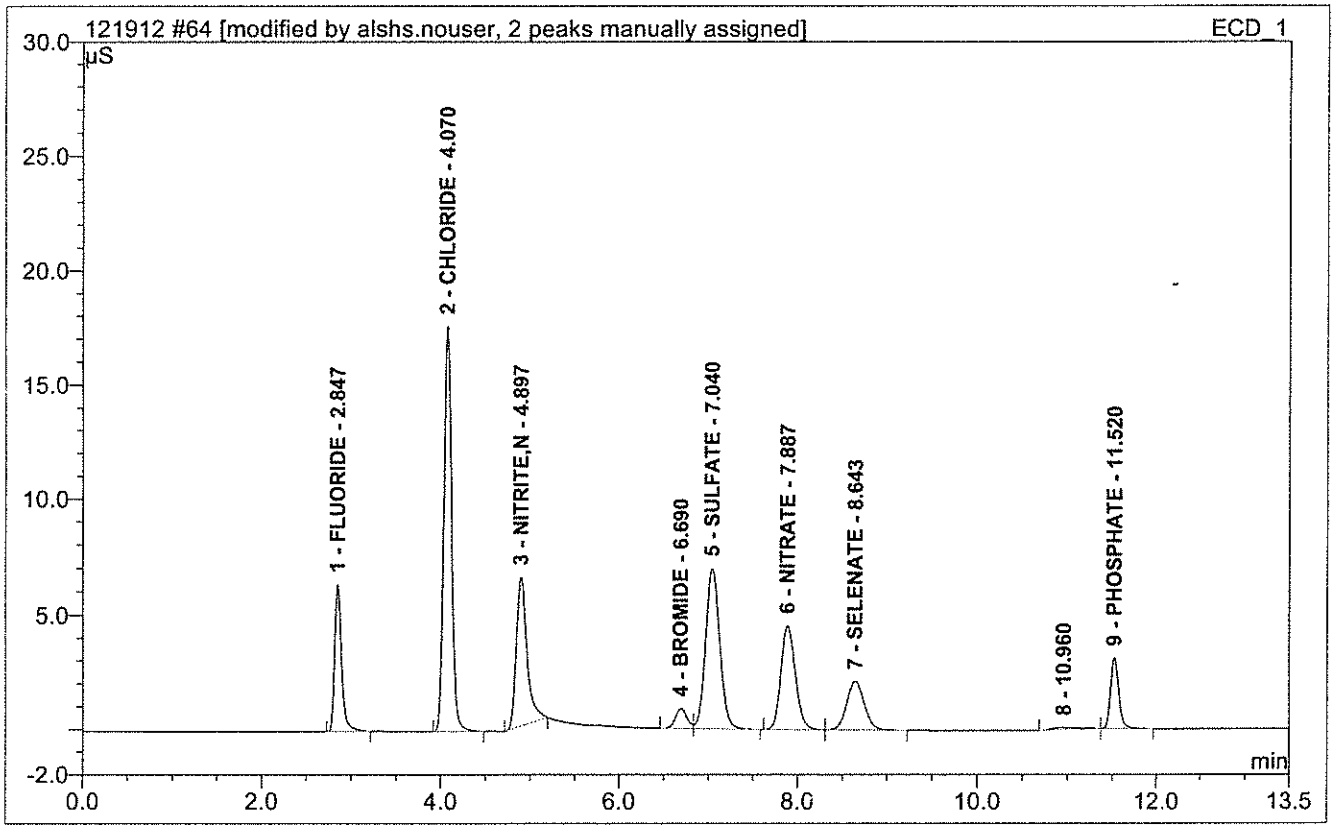
Sample Name:	**1212606-01AMSDDF10**	*Injection Volume:*	**10.0**
Vial Number:	**54**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**10.**
Recording Time:	**12/20/2012 13:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.83	FLUORIDE	3.427	0.301	8.57	22.008	10.
3	4.07	CHLORIDE	9.331	0.940	26.76	105.536	10.
4	4.90	NITRITE,N	3.361	0.433	12.33	20.829	10.
5	6.70	BROMIDE	0.415	0.064	1.81	19.531	10.
6	7.08	SULFATE	3.549	0.660	18.78	98.770	10.
7	7.92	NITRATE	2.271	0.422	12.02	18.971	10.
8	8.69	SELENATE	2.199	0.500	14.22	53.516	10.
10	11.52	PHOSPHATE	1.505	0.157	4.48	19.351	10.
Total:			26.058	3.478	98.97	358.513	

64 CCV

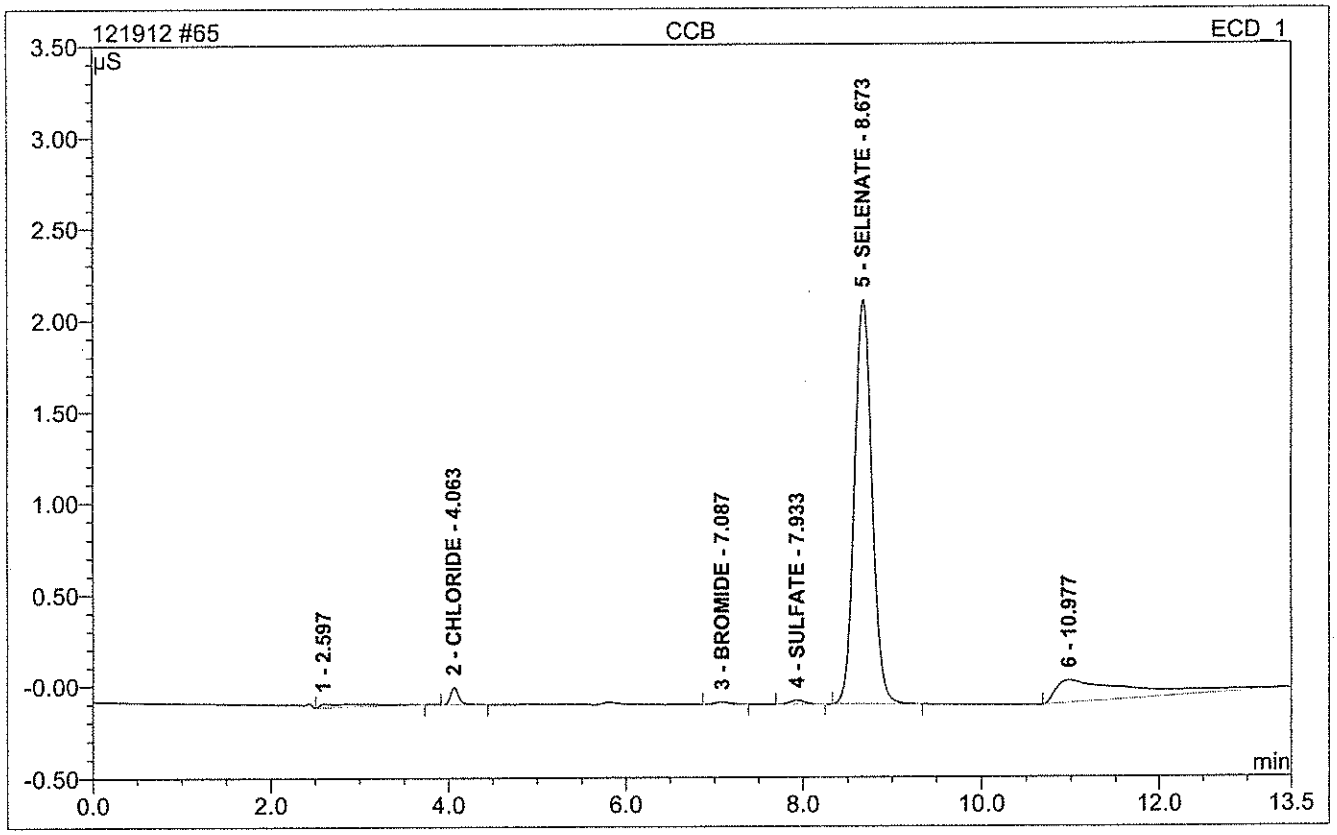
Sample Name:	**CCV**	*Injection Volume:*	**10.0**
Vial Number:	**1**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 14:42**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
1	2.85	FLUORIDE	6.389	0.575	9.01	4.199	1.
2	4.07	CHLORIDE	17.643	1.779	27.89	19.969	1.
3	4.90	NITRITE,N	6.458	0.908	14.24	4.366	1.
4	6.69	BROMIDE	0.871	0.132	2.06	4.035	1.
5	7.04	SULFATE	6.961	1.296	20.32	19.399	1.
6	7.89	NITRATE	4.519	0.847	13.28	3.806	1.
7	8.64	SELENATE	2.119	0.483	7.58	5.178	1.
9	11.52	PHOSPHATE	3.067	0.326	5.11	4.014	1.
Total:			48.027	6.347	99.50	64.966	

65 CCB

Sample Name:	**CCB**	*Injection Volume:*	**10.0**
Vial Number:	**2**	*Channel:*	**ECD_1**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**Anions Gradient Program**	*Bandwidth:*	**n.a.**
Quantif. Method:	**121212**	*Dilution Factor:*	**1.**
Recording Time:	**12/20/2012 14:57**	*Sample Weight:*	**1.0000**
Run Time (min):	**13.50**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount PPM	Dil.Fac.
2	4.06	CHLORIDE	0.094	0.010	1.52	0.112	1.
3	7.09	BROMIDE	0.013	0.003	0.41	0.083	1.
4	7.93	SULFATE	0.023	0.005	0.69	0.068	1.
5	8.67	SELENATE	2.205	0.504	76.86	5.402	1.
Total:			2.336	0.521	79.48	5.665	

Sequence: 121912
Operator: ALSHS.NoUser
Printed: 2/13/2013 10:59:20 AM

Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 65
Created: 12/19/2012 10:27:38 AM by alshs.nouser
Last Update: 12/20/2012 4:46:59 PM by alshs.nouser

No.	Name	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
1	STD1	Standard	11	10.0	1.00	1.00	1.0000	121212
2	STD2	Standard	12	10.0	1.00	1.00	1.0000	121212
3	STD3	Standard	13	10.0	1.00	1.00	1.0000	121212
4	STD4	Standard	14	10.0	1.00	1.00	1.0000	121212
5	STD5	Standard	15	10.0	1.00	1.00	1.0000	121212
6	STD6	Standard	16	10.0	1.00	1.00	1.0000	121212
7	ICV	Unknown	17	10.0	1.00	1.00	1.0000	121212
8	ICB	Unknown	18	10.0	1.00	1.00	1.0000	121212
9	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
10	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212
11	WBLKW1	Unknown	3	10.0	1.00	1.00	1.0000	121212
12	WLCSW1	Unknown	4	10.0	1.00	1.00	1.0000	121212
13	1212399-23D	Unknown	11	10.0	1.00	1.00	1.0000	121212
14	1212323-01FDF5	Unknown	12	10.0	1.00	1.00	5.0000	121212
15	1212323-02FDF5	Unknown	13	10.0	1.00	1.00	5.0000	121212
16	1212397-01ADF10	Unknown	14	10.0	1.00	1.00	10.0000	121212
17	1212397-02ADF10	Unknown	15	10.0	1.00	1.00	10.0000	121212
18	1212397-03ADF10	Unknown	16	10.0	1.00	1.00	10.0000	121212
19	1212397-04ADF10	Unknown	17	10.0	1.00	1.00	10.0000	121212
20	1212397-05ADF10	Unknown	18	10.0	1.00	1.00	10.0000	121212
21	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
22	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212
23	1212397-06ADF10	Unknown	19	10.0	1.00	1.00	10.0000	121212
24	1212397-07ADF10	Unknown	20	10.0	1.00	1.00	10.0000	121212
25	1212397-08ADF10	Unknown	21	10.0	1.00	1.00	10.0000	121212
26	1212397-08AMSDF10	Unknown	22	10.0	1.00	1.00	10.0000	121212
27	1212397-08AMSDDF10	Unknown	23	10.0	1.00	1.00	10.0000	121212
28	1212399-23DDF100	Unknown	24	10.0	1.00	1.00	100.0000	121212
29	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
30	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212
31	WBLKW2	Unknown	3	10.0	1.00	1.00	1.0000	121212
32	WLCSW2	Unknown	4	10.0	1.00	1.00	1.0000	121212
33	1212646-01D	Unknown	25	10.0	1.00	1.00	1.0000	121212
34	1212646-01DMS	Unknown	26	10.0	1.00	1.00	1.0000	121212
35	1212646-01DMSD	Unknown	27	10.0	1.00	1.00	1.0000	121212
36	1212646-02D	Unknown	28	10.0	1.00	1.00	1.0000	121212
37	1212646-03D	Unknown	29	10.0	1.00	1.00	1.0000	121212
38	1212646-04D	Unknown	30	10.0	1.00	1.00	1.0000	121212
39	1212646-05D	Unknown	31	10.0	1.00	1.00	1.0000	121212
40	1212646-06D	Unknown	32	10.0	1.00	1.00	1.0000	121212
41	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
42	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212

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Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 65
Created: 12/19/2012 10:27:38 AM by alshs.nouser
Last Update: 12/20/2012 4:46:59 PM by alshs.nouser

No.	Name	Status	Inj. Date/Time	Program	Comment
1	STD1	Finished	12/12/2012 12:11:38 PM	Anions Gradient Program	
2	STD2	Finished	12/12/2012 12:40:44 PM	Anions Gradient Program	
3	STD3	Finished	12/12/2012 12:55:17 PM	Anions Gradient Program	
4	STD4	Finished	12/12/2012 1:09:51 PM	Anions Gradient Program	
5	STD5	Finished	12/12/2012 1:24:24 PM	Anions Gradient Program	
6	STD6	Finished	12/12/2012 1:38:56 PM	Anions Gradient Program	
7	ICV	Finished	12/12/2012 2:51:10 PM	Anions Gradient Program	
8	ICB	Finished	12/12/2012 3:05:43 PM	Anions Gradient Program	
9	CCV	Finished	12/19/2012 10:32:44 AM	Anions Gradient Program	
10	CCB	Finished	12/19/2012 10:47:17 AM	Anions Gradient Program	
11	WBLKW1	Finished	12/19/2012 11:01:50 AM	Anions Gradient Program	
12	WLCSW1	Finished	12/19/2012 11:16:22 AM	Anions Gradient Program	
13	1212399-23D	Finished	12/19/2012 12:29:48 PM	Anions Gradient Program	
14	1212323-01FDF5	Finished	12/19/2012 12:44:20 PM	Anions Gradient Program	
15	1212323-02FDF5	Finished	12/19/2012 12:58:53 PM	Anions Gradient Program	
16	1212397-01ADF10	Finished	12/19/2012 1:13:26 PM	Anions Gradient Program	
17	1212397-02ADF10	Finished	12/19/2012 1:27:59 PM	Anions Gradient Program	
18	1212397-03ADF10	Finished	12/19/2012 1:42:32 PM	Anions Gradient Program	
19	1212397-04ADF10	Finished	12/19/2012 1:57:05 PM	Anions Gradient Program	
20	1212397-05ADF10	Finished	12/19/2012 2:11:37 PM	Anions Gradient Program	
21	CCV	Finished	12/19/2012 2:26:10 PM	Anions Gradient Program	
22	CCB	Finished	12/19/2012 2:40:43 PM	Anions Gradient Program	
23	1212397-06ADF10	Finished	12/19/2012 2:55:16 PM	Anions Gradient Program	
24	1212397-07ADF10	Finished	12/19/2012 3:09:49 PM	Anions Gradient Program	
25	1212397-08ADF10	Finished	12/19/2012 3:24:22 PM	Anions Gradient Program	
26	1212397-08AMSDF10	Finished	12/19/2012 4:21:42 PM	Anions Gradient Program	
27	1212397-08AMSDDF10	Finished	12/19/2012 3:45:27 PM	Anions Gradient Program	
28	1212399-23DDF100	Finished	12/19/2012 4:00:00 PM	Anions Gradient Program	
29	CCV	Finished	12/19/2012 4:42:10 PM	Anions Gradient Program	
30	CCB	Finished	12/19/2012 4:56:43 PM	Anions Gradient Program	
31	WBLKW2	Finished	12/19/2012 5:11:16 PM	Anions Gradient Program	
32	WLCSW2	Finished	12/19/2012 5:25:49 PM	Anions Gradient Program	
33	1212646-01D	Finished	12/19/2012 5:40:22 PM	Anions Gradient Program	
34	1212646-01DMS	Finished	12/19/2012 5:54:54 PM	Anions Gradient Program	
35	1212646-01DMSD	Finished	12/19/2012 6:09:26 PM	Anions Gradient Program	
36	1212646-02D	Finished	12/19/2012 6:23:59 PM	Anions Gradient Program	
37	1212646-03D	Finished	12/19/2012 6:38:32 PM	Anions Gradient Program	
38	1212646-04D	Finished	12/19/2012 6:53:05 PM	Anions Gradient Program	
39	1212646-05D	Finished	12/19/2012 7:07:37 PM	Anions Gradient Program	
40	1212646-06D	Finished	12/19/2012 7:22:10 PM	Anions Gradient Program	
41	CCV	Finished	12/19/2012 7:36:43 PM	Anions Gradient Program	
42	CCB	Finished	12/19/2012 7:51:16 PM	Anions Gradient Program	

Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 65
Created: 12/19/2012 10:27:38 AM by alshs.nouser
Last Update: 12/20/2012 4:46:59 PM by alshs.nouser

No.	Name	Type	Pos.	Inj. Vol.	*Initial_Vol_Wt	*Final_Volume	Dil. Factor	Method
43	1212648-01H	Unknown	33	10.0	1.00	1.00	1.0000	121212
44	1212650-01H	Unknown	34	10.0	1.00	1.00	1.0000	121212
45	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
46	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212
47	CCB	Unknown	1	10.0	1.00	1.00	1.0000	121212
48	1212673-01F	Unknown	41	10.0	1.00	1.00	1.0000	121212
49	1212673-02F	Unknown	42	10.0	1.00	1.00	1.0000	121212
50	1212673-03F	Unknown	43	10.0	1.00	1.00	1.0000	121212
51	1212673-04F	Unknown	44	10.0	1.00	1.00	1.0000	121212
52	1212673-05F	Unknown	45	10.0	1.00	1.00	1.0000	121212
53	1212673-06F	Unknown	46	10.0	1.00	1.00	1.0000	121212
54	1212673-07F	Unknown	47	10.0	1.00	1.00	1.0000	121212
55	1212673-08F	Unknown	48	10.0	1.00	1.00	1.0000	121212
56	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
57	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212
58	1212606-01A	Unknown	51	10.0	1.00	1.00	1.0000	121212
59	1212606-01ADF10	Unknown	52	10.0	1.00	1.00	10.0000	121212
60	1212606-01AMSDF10	Unknown	53	10.0	1.00	1.00	10.0000	121212
61	1212606-01AMSDDF10	Unknown	54	10.0	1.00	1.00	10.0000	121212
62	WBLKS1	Unknown	3	10.0	1.00	1.00	1.0000	121212
63	WLCSS1	Unknown	4	10.0	1.00	1.00	1.0000	121212
64	CCV	Unknown	1	10.0	1.00	1.00	1.0000	121212
65	CCB	Unknown	2	10.0	1.00	1.00	1.0000	121212

Title:
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011
Timebase: ICS2100
#Samples: 65
Created: 12/19/2012 10:27:38 AM by alshs.nouser
Last Update: 12/20/2012 4:46:59 PM by alshs.nouser

No.	Name	Status	Inj. Date/Time	Program	Comment
43	1212648-01H	Finished	12/19/2012 8:05:49 PM	Anions Gradient Program	
44	1212650-01H	Finished	12/19/2012 8:20:22 PM	Anions Gradient Program	
45	CCV	Finished	12/20/2012 9:14:17 AM	Anions Gradient Program	
46	CCB	Finished	12/20/2012 9:28:50 AM	Anions Gradient Program	
47	CCB	Finished	12/20/2012 10:03:46 AM	Anions Gradient Program	
48	1212673-01F	Finished	12/20/2012 10:21:49 AM	Anions Gradient Program	
49	1212673-02F	Finished	12/20/2012 10:36:21 AM	Anions Gradient Program	
50	1212673-03F	Finished	12/20/2012 10:50:54 AM	Anions Gradient Program	
51	1212673-04F	Finished	12/20/2012 11:05:28 AM	Anions Gradient Program	
52	1212673-05F	Finished	12/20/2012 11:20:01 AM	Anions Gradient Program	
53	1212673-06F	Finished	12/20/2012 11:34:34 AM	Anions Gradient Program	
54	1212673-07F	Finished	12/20/2012 11:49:07 AM	Anions Gradient Program	
55	1212673-08F	Finished	12/20/2012 12:03:39 PM	Anions Gradient Program	
56	CCV	Finished	12/20/2012 12:18:12 PM	Anions Gradient Program	
57	CCB	Finished	12/20/2012 12:32:45 PM	Anions Gradient Program	
58	1212606-01A	Finished	12/20/2012 1:15:31 PM	Anions Gradient Program	
59	1212606-01ADF10	Finished	12/20/2012 1:30:04 PM	Anions Gradient Program	
60	1212606-01AMSDF10	Finished	12/20/2012 1:44:37 PM	Anions Gradient Program	
61	1212606-01AMSDDF10	Finished	12/20/2012 1:59:09 PM	Anions Gradient Program	
62	WBLKS1	Finished	12/20/2012 2:13:42 PM	Anions Gradient Program	
63	WLCSS1	Finished	12/20/2012 2:28:15 PM	Anions Gradient Program	
64	CCV	Finished	12/20/2012 2:42:48 PM	Anions Gradient Program	
65	CCB	Finished	12/20/2012 2:57:21 PM	Anions Gradient Program	

Title: Anions
Datasource: DB7CGHK1_local
Created: 2/4/2010 3:46:32 PM by ALSHS.NoUser
Location: ICS2100\Sequences and Data\12-2011\121912.SEQ
Timebase: ICS2100
Changed: 7/18/2012 12:40:17 PM by alshs.nouser

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Title: Anions
Datasource: DB7CGHK1_local
Created: 2/4/2010 3:46:32 PM by ALSHS.NoUser
Location: ICS2100\Sequences and Data\12-2011\121912.SEQ
Timebase: ICS2100
Changed: 7/18/2012 12:40:17 PM by alshs.nouser

Title: Anions
Datasource: DB7CGHK1_local
Location: ICS2100\Sequences and Data\12-2011\121912.SEQ
Timebase: ICS2100

Created: 2/4/2010 3:46:32 PM by ALSHS.NoUser
Changed: 7/18/2012 12:40:17 PM by alshs.nouser

No.	Channel	Operation	Parameters

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	rinse
Sample ID:	Untitled
Origin:	ASI-V 112712CAL.cal
Status	Completed
Chk. Result	

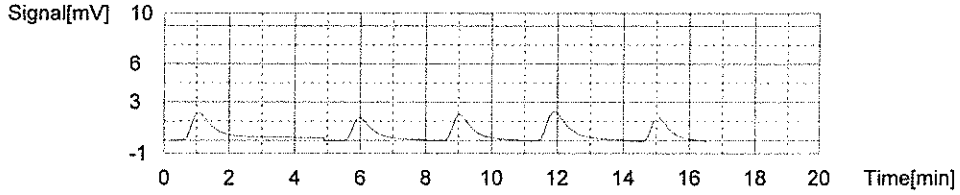
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.500mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.22	2.087mg/L	50uL	1	E	ASI-V 112712CAL.2012_11_27_14_48_50.ca	12/26/2012 4:41:37 PM
2	7.675	1.330mg/L	50uL	1		ASI-V 112712CAL.2012_11_27_14_48_50.ca	12/26/2012 4:44:51 PM
3	8.335	1.471mg/L	50uL	1		ASI-V 112712CAL.2012_11_27_14_48_50.ca	12/26/2012 4:47:52 PM
4	10.61	1.957mg/L	50uL	1		ASI-V 112712CAL.2012_11_27_14_48_50.ca	12/26/2012 4:51:16 PM
5	7.263	1.242mg/L	50uL	1		ASI-V 112712CAL.2012_11_27_14_48_50.ca	12/26/2012 4:53:57 PM

Mean Area	8.471
Mean Conc.	1.500mg/L



Cal. Curve

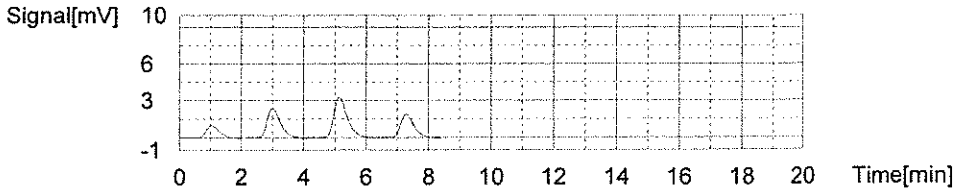
Sample Name:	Calibration
Sample ID:	Untitled
Cal. Curve:	122612CAL.2012_12_26_16_53_57.cal
Status	Completed

Type	Anal.
Standard	NPOC

Conc: 0.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	2.867	50uL	1	*******	E	12/26/2012 5:01:47 PM
2	7.192	50uL	1	*******		12/26/2012 5:04:06 PM
3	9.847	50uL	1	*******		12/26/2012 5:06:25 PM
4	5.648	50uL	1	*******		12/26/2012 5:08:46 PM

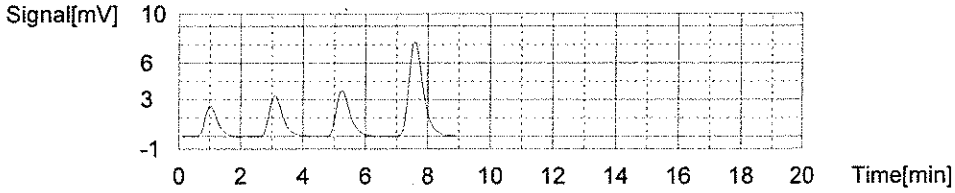
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 7.562



Conc: 0.5000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	6.983	50uL	1	*******		12/26/2012 5:16:39 PM
2	9.950	50uL	1	*******		12/26/2012 5:18:59 PM
3	11.66	50uL	1	*******		12/26/2012 5:21:29 PM
4	24.86	50uL	1	*******	E	12/26/2012 5:24:06 PM

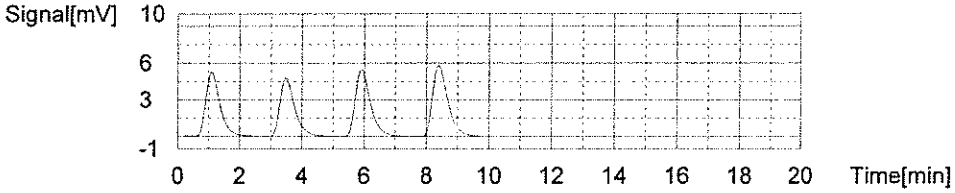
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 9.531



Conc: 2.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	16.69	50uL	1	*******		12/26/2012 5:32:20 PM
2	16.04	50uL	1	*******		12/26/2012 5:34:55 PM
3	18.83	50uL	1	*******		12/26/2012 5:37:35 PM
4	19.94	50uL	1	*******	E	12/26/2012 5:40:19 PM

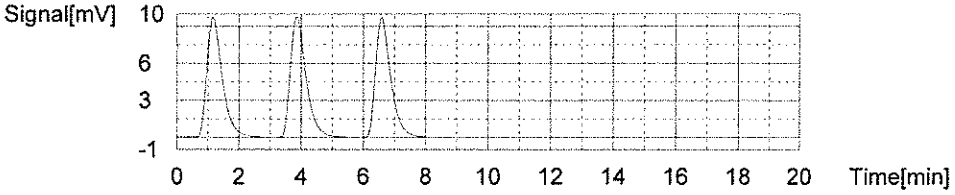
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 17.19



Conc: 5.000mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	33.59	50uL	1	*******		12/26/2012 5:48:52 PM
2	34.55	50uL	1	*******		12/26/2012 5:51:48 PM
3	33.36	50uL	1	*******		12/26/2012 5:54:37 PM

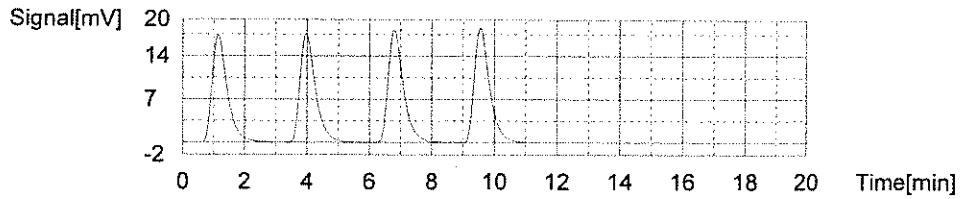
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 33.83



Conc: 10.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	59.60	50uL	1	*******	E	12/26/2012 6:03:23 PM
2	61.13	50uL	1	*******		12/26/2012 6:06:23 PM
3	63.36	50uL	1	*******		12/26/2012 6:09:20 PM
4	64.14	50uL	1	*******		12/26/2012 6:12:20 PM

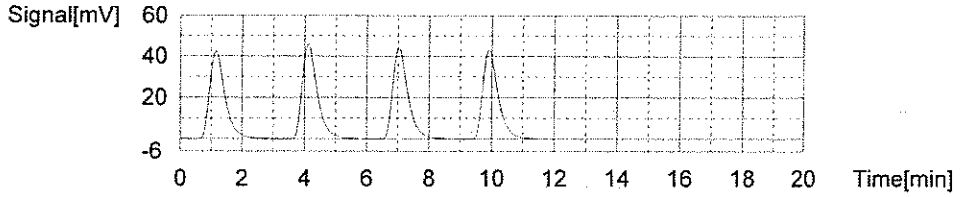
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 62.88



Conc: 25.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	146.4	50uL	1	*******		12/26/2012 6:21:10 PM
2	155.9	50uL	1	*******	E	12/26/2012 6:24:16 PM
3	151.3	50uL	1	*******		12/26/2012 6:27:20 PM
4	148.7	50uL	1	*******		12/26/2012 6:30:27 PM

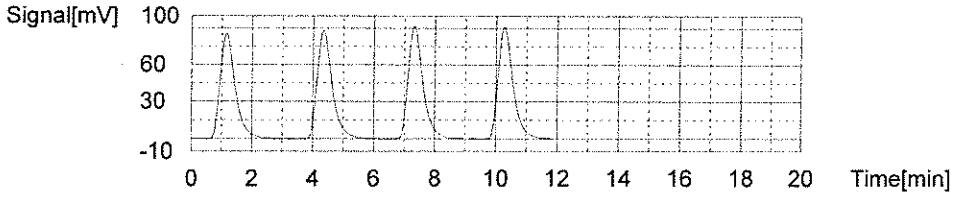
Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 148.8



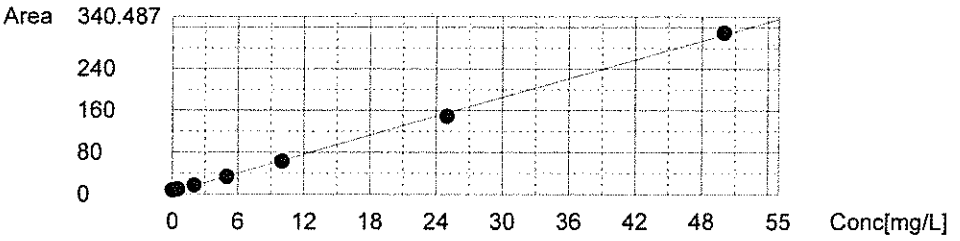
Conc: 50.00mg/L

No.	Area	Inj. Vol.	Aut. Dil.	Rem.	Ex.	Date / Time
1	295.9	50uL	1	*******	E	12/26/2012 6:39:30 PM
2	304.0	50uL	1	*******		12/26/2012 6:42:40 PM
3	313.1	50uL	1	*******		12/26/2012 6:45:48 PM
4	311.5	50uL	1	*******		12/26/2012 6:48:54 PM

Acid Add. 1.500%
Sp. Time 90.00sec
Mean Area 309.5



Slope: 6.027
Intercept 4.548
r^2 0.9990
r 0.9995
Zero Shift No



Sample

Sample Name: ICV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.345mg/L

1. Det

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:9.091mg/L	
2	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.5231mg/L	
3	Unknown	NPOC	WBLKW1-122912	Untitled	122612CAL.cal	NPOC:-0.4817mg/L	
4	Unknown	NPOC	WLCSW1-122912	Untitled	122612CAL.cal	NPOC:9.085mg/L	
5	Unknown	NPOC	WLCSDW1-122912	Untitled	122612CAL.cal	NPOC:9.161mg/L	
6	Unknown	NPOC	RINSE	Untitled	122612CAL.cal	NPOC:-0.4930mg/L	
7	Unknown	NPOC	1212848-01B	Untitled	122612CAL.cal	NPOC:-0.5114mg/L	
8	Unknown	NPOC	1212646-01B	Untitled	122612CAL.cal	NPOC:0.7362mg/L	
9	Unknown	NPOC	1212646-01BMS	Untitled	122612CAL.cal	NPOC:11.64mg/L	
10	Unknown	NPOC	1212646-01BMSD	Untitled	122612CAL.cal	NPOC:12.21mg/L	
11	Unknown	NPOC	1212646-02B	Untitled	122612CAL.cal	NPOC:1.197mg/L	
12	Unknown	NPOC	1212646-03B	Untitled	122612CAL.cal	NPOC:1.710mg/L	
13	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:10.23mg/L	
14	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.3870mg/L	
15	Unknown	NPOC	1212646-04B	Untitled	122612CAL.cal	NPOC:30.22mg/L	
16	Unknown	NPOC	1212646-05B	Untitled	122612CAL.cal	NPOC:8.944mg/L	
17	Unknown	NPOC	1212646-06B	Untitled	122612CAL.cal	NPOC:9.998mg/L	
18	Unknown	NPOC	1212577-01BDF40	Untitled	122612CAL.cal	NPOC:1.188mg/L	
19	Unknown	NPOC	1212577-02BDF40	Untitled	122612CAL.cal	NPOC:2.145mg/L	
20	Unknown	NPOC	1212577-03BDF200	Untitled	122612CAL.cal	NPOC:8.045mg/L	
21	Unknown	NPOC	1212577-04BDF20	Untitled	122612CAL.cal	NPOC:20.85mg/L	
22	Unknown	NPOC	1212577-05BDF20	Untitled	122612CAL.cal	NPOC:0.3650mg/L	
23	Unknown	NPOC	1212577-09BDF40	Untitled	122612CAL.cal	NPOC:7.254mg/L	
24	Unknown	NPOC	1212577-10BDF40	Untitled	122612CAL.cal	NPOC:6.968mg/L	
25	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:8.749mg/L	
26	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.4347mg/L	
27	Unknown	NPOC	WBLKW2-122912	Untitled	122612CAL.cal	NPOC:-0.5004mg/L	
28	Unknown	NPOC	WLCSW2-122912	Untitled	122612CAL.cal	NPOC:8.780mg/L	
29	Unknown	NPOC	1212646-01C	Untitled	122612CAL.cal	NPOC:0.4064mg/L	
30	Unknown	NPOC	1212646-01CMS	Untitled	122612CAL.cal	NPOC:11.05mg/L	
31	Unknown	NPOC	1212646-01CMSD	Untitled	122612CAL.cal	NPOC:11.32mg/L	
32	Unknown	NPOC	1212646-02C	Untitled	122612CAL.cal	NPOC:1.141mg/L	
33	Unknown	NPOC	1212646-03CDF10	Untitled	122612CAL.cal	NPOC:-0.08131mg/L	
34	Unknown	NPOC	1212646-04CDF20	Untitled	122612CAL.cal	NPOC:1.359mg/L	
35	Unknown	NPOC	1212646-05C	Untitled	122612CAL.cal	NPOC:7.508mg/L	
36	Unknown	NPOC	1212646-06C	Untitled	122612CAL.cal	NPOC:0.8912mg/L	
37	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:8.898mg/L	
38	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.4650mg/L	
39	Unknown	NPOC	1212629-02DDF20	Untitled	122612CAL.cal	NPOC:104.5mg/L	
40	Unknown	NPOC	1212673-01B	Untitled	122612CAL.cal	NPOC:5.628mg/L	
41	Unknown	NPOC	1212673-02B	Untitled	122612CAL.cal	NPOC:0.01669mg/L	
42	Unknown	NPOC	1212673-03B	Untitled	122612CAL.cal	NPOC:1.236mg/L	
43	Unknown	NPOC	1212673-04B	Untitled	122612CAL.cal	NPOC:0.3191mg/L	
44	Unknown	NPOC	1212673-05B	Untitled	122612CAL.cal	NPOC:0.7359mg/L	
45	Unknown	NPOC	1212673-06B	Untitled	122612CAL.cal	NPOC:2.126mg/L	
46	Unknown	NPOC	1212673-07B	Untitled	122612CAL.cal	NPOC:1.284mg/L	
47	Unknown	NPOC	1212673-08B	Untitled	122612CAL.cal	NPOC:-0.1017mg/L	
48	Unknown	NPOC	1212596-01A	Untitled	122612CAL.cal	NPOC:6.541mg/L	
49	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:9.045mg/L	
50	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.4574mg/L	
51	Unknown	NPOC	WBLKW3-122912	Untitled	122612CAL.cal	NPOC:-0.5367mg/L	
52	Unknown	NPOC	WLCSW3-122912	Untitled	122612CAL.cal	NPOC:8.584mg/L	
53	Unknown	NPOC	1212551-01G	Untitled	122612CAL.cal	NPOC:9.961mg/L	
54	Unknown	NPOC	1212551-01GMS	Untitled	122612CAL.cal	NPOC:20.17mg/L	
55	Unknown	NPOC	1212551-01GMSD	Untitled	122612CAL.cal	NPOC:20.25mg/L	
56	Unknown	NPOC	1212586-01ADF10	Untitled	122612CAL.cal	NPOC:0.4076mg/L	
57	Unknown	NPOC	1212587-01A	Untitled	122612CAL.cal	NPOC:-0.2404mg/L	
58	Unknown	NPOC	1212594-01A	Untitled	122612CAL.cal	NPOC:7.716mg/L	

	Status	Date / Time	Vial
1	Completed	12/29/2012 12:56:27 P	1
2	Completed	12/29/2012 1:11:55 PM	2
3	Completed	12/29/2012 1:28:03 PM	3
4	Completed	12/29/2012 1:43:27 PM	4
5	Completed	12/29/2012 2:02:19 PM	5
6	Completed	12/29/2012 2:18:01 PM	6
7	Completed	12/29/2012 2:33:42 PM	7
8	Completed	12/29/2012 2:50:35 PM	8
9	Completed	12/29/2012 3:06:20 PM	9
10	Completed	12/29/2012 3:25:16 PM	10
11	Completed	12/29/2012 3:42:30 PM	11
12	Completed	12/29/2012 3:59:55 PM	12
13	Completed	12/29/2012 4:18:59 PM	13
14	Completed	12/29/2012 4:35:37 PM	14
15	Completed	12/29/2012 4:55:28 PM	15
16	Completed	12/29/2012 5:14:22 PM	16
17	Completed	12/29/2012 5:33:16 PM	17
18	Completed	12/29/2012 5:50:47 PM	18
19	Completed	12/29/2012 6:07:54 PM	19
20	Completed	12/29/2012 6:26:06 PM	20
21	Completed	12/29/2012 6:41:30 PM	21
22	Completed	12/29/2012 6:57:58 PM	22
23	Completed	12/29/2012 7:13:12 PM	23
24	Completed	12/29/2012 7:28:21 PM	24
25	Completed	12/29/2012 7:43:44 PM	25
26	Completed	12/29/2012 8:00:47 PM	26
27	Completed	12/29/2012 8:16:10 PM	27
28	Completed	12/29/2012 8:34:34 PM	28
29	Completed	12/29/2012 8:48:14 PM	29
30	Completed	12/29/2012 9:03:41 PM	30
31	Completed	12/29/2012 9:19:15 PM	31
32	Completed	12/29/2012 9:36:05 PM	32
33	Completed	12/29/2012 9:52:19 PM	33
34	Completed	12/29/2012 10:09:03 P	34
35	Completed	12/29/2012 10:24:07 P	35
36	Completed	12/29/2012 10:40:55 P	36
37	Completed	12/29/2012 10:55:59 P	37
38	Completed	12/29/2012 11:11:47 P	38
39	Completed	12/29/2012 11:28:02 P	39
40	Completed	12/29/2012 11:42:53 P	40
41	Completed	12/29/2012 11:59:02 P	41
42	Completed	12/30/2012 12:15:40 A	42
43	Completed	12/30/2012 12:32:10 A	43
44	Completed	12/30/2012 12:48:39 A	44
45	Completed	12/30/2012 1:05:32 AM	45
46	Completed	12/30/2012 1:22:21 AM	46
47	Completed	12/30/2012 1:38:57 AM	47
48	Completed	12/30/2012 1:53:53 AM	48
49	Completed	12/30/2012 2:08:59 AM	49
50	Completed	12/30/2012 2:24:43 AM	50
51	Completed	12/30/2012 2:39:56 AM	51
52	Completed	12/30/2012 2:55:02 AM	52
53	Completed	12/30/2012 3:10:16 AM	53
54	Completed	12/30/2012 3:25:59 AM	54
55	Completed	12/30/2012 3:41:39 AM	55
56	Completed	12/30/2012 3:58:08 AM	56
57	Completed	12/30/2012 4:13:48 AM	57
58	Completed	12/30/2012 4:29:00 AM	58

	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
59	Unknown	NPOC	1212594-02A	Untitled	122612CAL.cal	NPOC:9.821mg/L	
60	Unknown	NPOC	1212594-03ADF20	Untitled	122612CAL.cal	NPOC:3.562mg/L	
61	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:9.842mg/L	
62	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.3389mg/L	
63	Unknown	NPOC	1212665-01A	Untitled	122612CAL.cal	NPOC:2.566mg/L	
64	Unknown	NPOC	1212790-10B	Untitled	122612CAL.cal	NPOC:-0.1714mg/L	
65	Unknown	NPOC	1212790-11B	Untitled	122612CAL.cal	NPOC:81.04mg/L	
66	Unknown	NPOC	1212691-01A	Untitled	122612CAL.cal	NPOC:6.591mg/L	
67	Unknown	NPOC	CCV	Untitled	122612CAL.cal	NPOC:9.259mg/L	
68	Unknown	NPOC	CCB	Untitled	122612CAL.cal	NPOC:-0.4188mg/L	

	Status	Date / Time	Vial
59	Completed	12/30/2012 4:44:20 AM	59
60	Completed	12/30/2012 5:02:19 AM	60
61	Completed	12/30/2012 5:20:32 AM	61
62	Completed	12/30/2012 5:36:32 AM	62
63	Completed	12/30/2012 5:50:54 AM	63
64	Completed	12/30/2012 6:07:02 AM	64
65	Completed	12/30/2012 6:23:18 AM	65
66	Completed	12/30/2012 6:41:18 AM	66
67	Completed	12/30/2012 6:56:32 AM	67
68	Completed	12/30/2012 7:12:11 AM	68

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	122612CAL.cal
Status	Completed
Chk. Result	

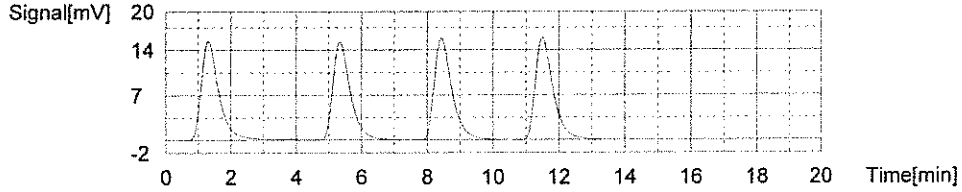
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.091mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.11	8.887mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 12:46:39 PM
2	57.43	8.774mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 12:49:55 PM
3	59.81	9.169mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 12:53:11 PM
4	60.10	9.217mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 12:56:27 PM

Mean Area	59.34
Mean Conc.	9.091mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	122612CAL.cal
Status	Completed
Chk. Result	

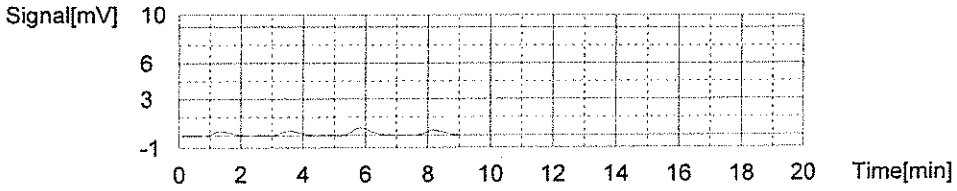
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.5231mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.269	-0.5440mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:04:31 PM
2	1.384	-0.5249mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:06:56 PM
3	2.333	-0.3675mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:09:31 PM
4	1.533	-0.5002mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:11:55 PM

Mean Area 1.395
Mean Conc. -0.5231mg/L



Sample

Sample Name: WBLKW1-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

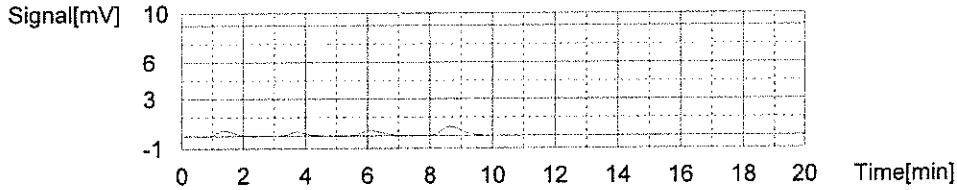
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4817mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.751	-0.4640mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:20:08 PM
2	1.166	-0.5611mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:22:37 PM
3	2.017	-0.4199mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:25:19 PM
4	3.241	-0.2168mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:28:03 PM

Mean Area 1.645
Mean Conc. -0.4817mg/L



Sample

Sample Name: WLCSW1-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

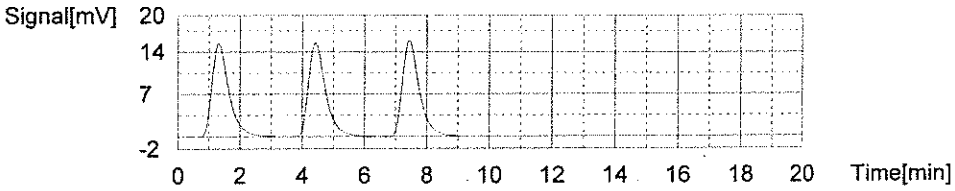
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.085mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.56	8.962mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:37:01 PM
2	58.91	9.020mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:40:13 PM
3	60.43	9.272mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:43:27 PM

Mean Area 59.30
Mean Conc. 9.085mg/L



Sample

Sample Name: WLCSDW1-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

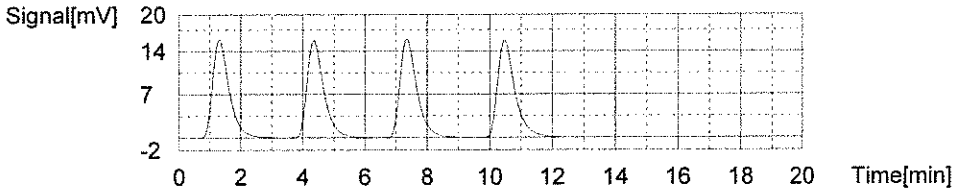
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.161mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.93	9.023mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:52:26 PM
2	59.22	9.071mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:55:36 PM
3	61.13	9.388mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 1:58:55 PM
4	61.64	9.473mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:02:19 PM

Mean Area 59.76
Mean Conc. 9.161mg/L



Sample

Sample Name: RINSE
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

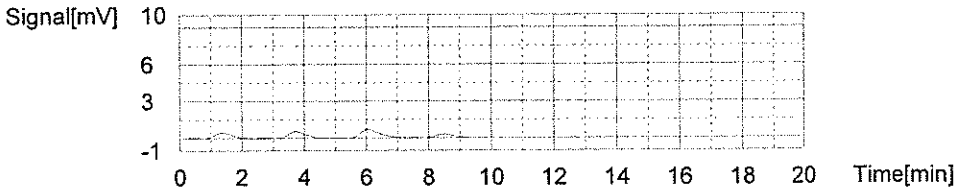
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4930mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.698	-0.4728mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:10:31 PM
2	1.963	-0.4289mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:13:01 PM
3	2.673	-0.3111mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:15:39 PM
4	1.069	-0.5772mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:18:01 PM

Mean Area 1.577
Mean Conc. -0.4930mg/L



Sample

Sample Name: 1212848-01B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

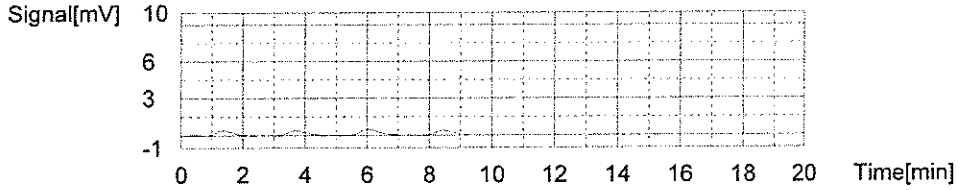
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.5114mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.573	-0.4936mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:26:11 PM
2	1.422	-0.5186mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:28:41 PM
3	1.862	-0.4456mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:31:16 PM
4	1.401	-0.5221mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:33:42 PM

Mean Area 1.465
Mean Conc. -0.5114mg/L



Sample

Sample Name: 1212646-01B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

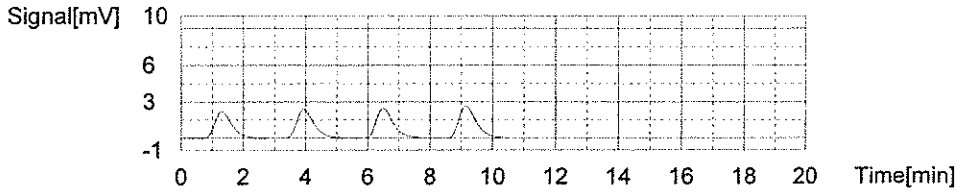
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7362mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.379	0.6357mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:42:11 PM
2	9.117	0.7581mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:44:55 PM
3	9.458	0.8147mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:47:45 PM
4	10.34	0.9611mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:50:35 PM

Mean Area 8.985
Mean Conc. 0.7362mg/L



Sample

Sample Name: 1212646-01BMS
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

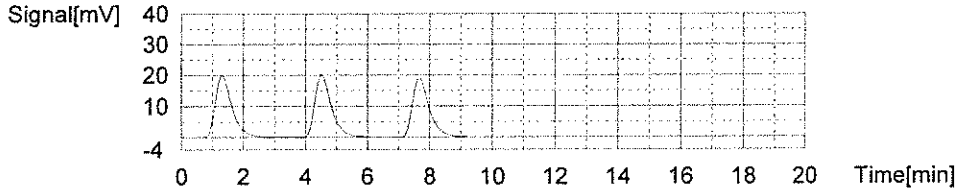
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.64mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.77	11.82mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 2:59:40 PM
2	75.11	11.71mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:02:59 PM
3	73.14	11.38mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:06:20 PM

Mean Area 74.67
Mean Conc. 11.64mg/L



Sample

Sample Name: 1212646-01BMSD
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

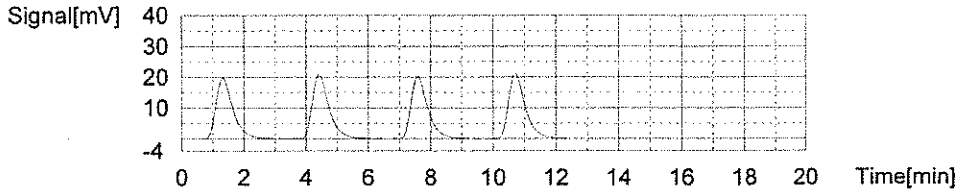
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:12.21mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	75.22	11.73mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:15:23 PM
2	78.86	12.33mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:18:44 PM
3	76.41	11.92mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:22:03 PM
4	79.17	12.38mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:25:16 PM

Mean Area 78.15
Mean Conc. 12.21mg/L



Sample

Sample Name: 1212646-02B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

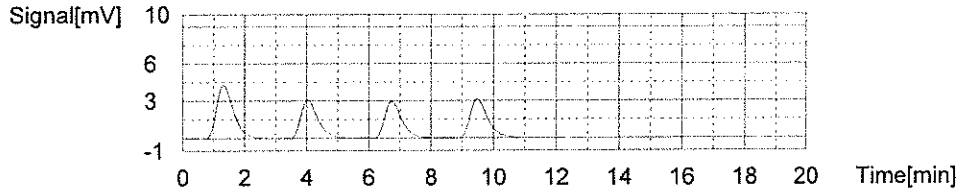
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.197mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.42	1.970mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:33:50 PM
2	11.87	1.215mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:36:43 PM
3	11.30	1.120mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:39:38 PM
4	12.11	1.255mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:42:30 PM

Mean Area 11.76
Mean Conc. 1.197mg/L



Sample

Sample Name: 1212646-03B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

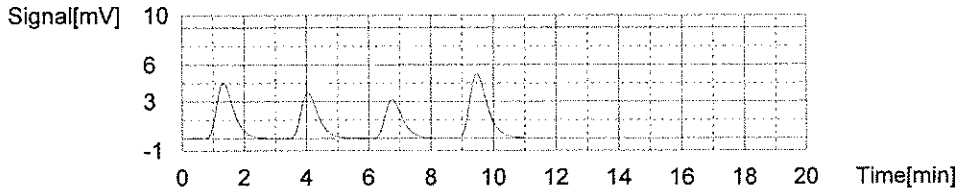
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.710mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.47	2.144mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:51:06 PM
2	14.51	1.653mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:53:57 PM
3	12.59	1.334mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:56:52 PM
4	20.88	2.710mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 3:59:55 PM

Mean Area 14.86
Mean Conc. 1.710mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

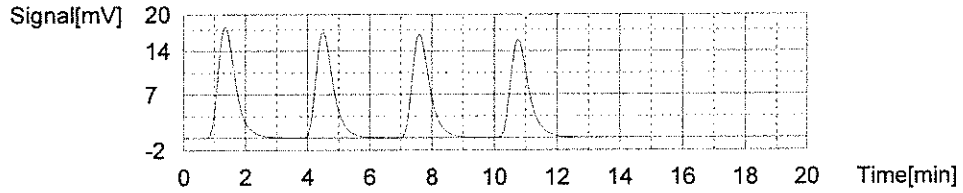
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:10.23mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	70.72	10.98mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:08:57 PM
2	67.19	10.39mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:12:12 PM
3	66.52	10.28mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:15:31 PM
4	64.97	10.03mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:18:59 PM

Mean Area 66.23
Mean Conc. 10.23mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

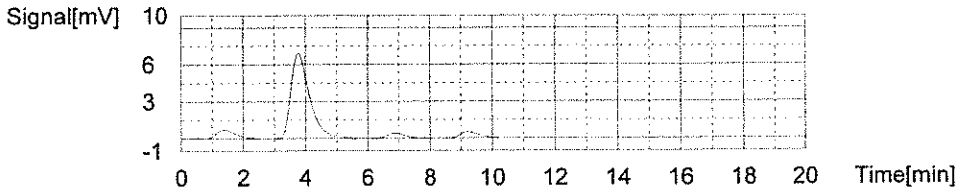
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3870mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.918	-0.2704mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:27:16 PM
2	28.76	4.017mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:30:29 PM
3	1.703	-0.4720mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:33:02 PM
4	2.025	-0.4186mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:35:37 PM

Mean Area 2.215
Mean Conc. -0.3870mg/L



Sample

Sample Name: 1212646-04B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

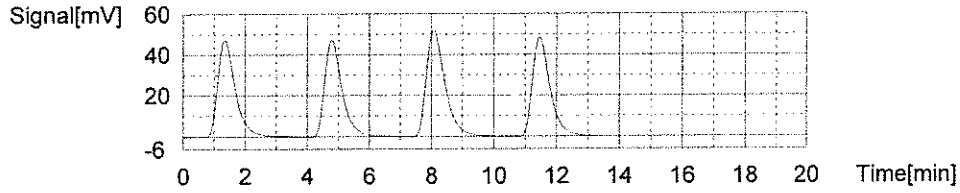
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:30.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	186.1	30.12mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:44:55 PM
2	184.1	29.79mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:48:22 PM
3	219.5	35.67mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:51:58 PM
4	189.8	30.74mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 4:55:28 PM

Mean Area 186.7
Mean Conc. 30.22mg/L



Sample

Sample Name: 1212646-05B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

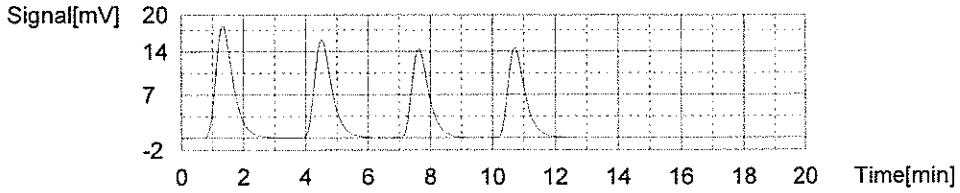
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.944mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.72	11.15mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:04:30 PM
2	62.87	9.677mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:07:50 PM
3	56.16	8.564mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:11:06 PM
4	56.32	8.590mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:14:22 PM

Mean Area 58.45
Mean Conc. 8.944mg/L



Sample

Sample Name: 1212646-06B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

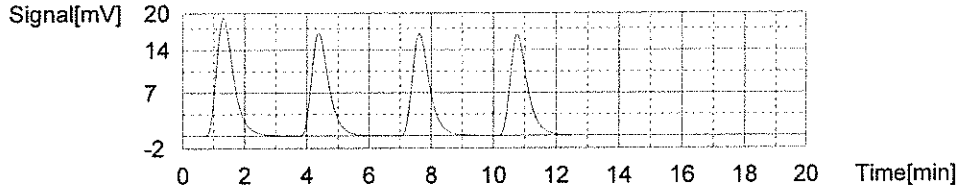
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.998mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.51	11.61mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:23:18 PM
2	65.79	10.16mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:26:43 PM
3	64.74	9.987mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:30:03 PM
4	63.89	9.846mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:33:16 PM

Mean Area 64.81
Mean Conc. 9.998mg/L



Sample

Sample Name: 1212577-01BDF40
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

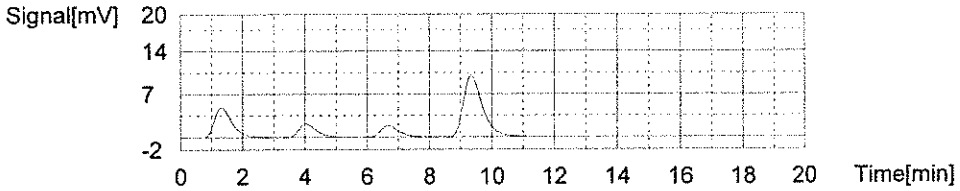
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.188mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.95	2.390mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:41:51 PM
2	8.660	0.6823mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:44:39 PM
3	7.514	0.4922mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:47:25 PM
4	42.87	6.359mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:50:47 PM

Mean Area 11.71
Mean Conc. 1.188mg/L



Sample

Sample Name: 1212577-02BDF40
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

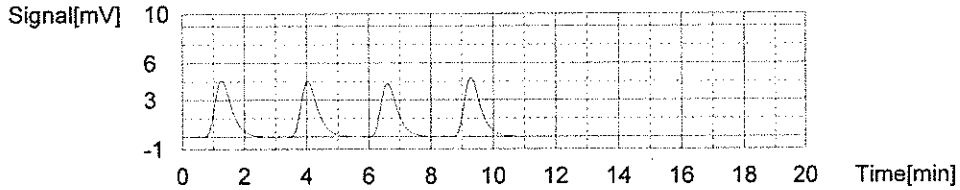
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.145mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.54	2.156mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 5:59:25 PM
2	16.97	2.061mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:02:11 PM
3	16.34	1.957mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:05:03 PM
4	17.92	2.219mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:07:54 PM

Mean Area 17.48
Mean Conc. 2.145mg/L



Sample

Sample Name: 1212577-03BDF200
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

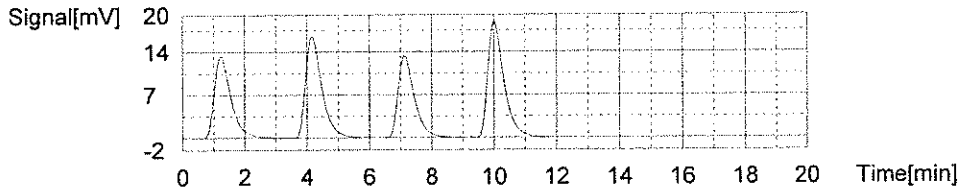
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.045mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.66	7.485mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:16:42 PM
2	60.32	9.254mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:19:51 PM
3	49.13	7.397mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:22:55 PM
4	68.50	10.61mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:26:06 PM

Mean Area 53.04
Mean Conc. 8.045mg/L



Sample

Sample Name: 1212577-04BDF20
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

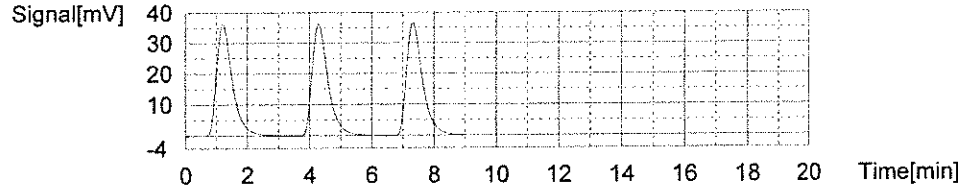
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.85mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	129.3	20.70mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:35:02 PM
2	129.4	20.72mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:38:14 PM
3	131.9	21.13mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:41:30 PM

Mean Area 130.2
Mean Conc. 20.85mg/L



Sample

Sample Name: 1212577-05BDF20
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

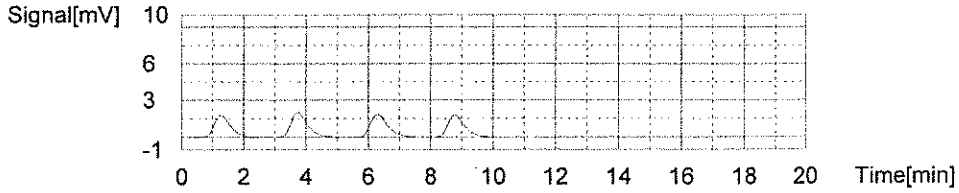
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3650mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	6.495	0.3231mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:49:54 PM
2	7.411	0.4751mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:52:37 PM
3	7.035	0.4127mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:55:18 PM
4	6.713	0.3593mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 6:57:58 PM

Mean Area 6.748
Mean Conc. 0.3650mg/L



Sample

Sample Name: 1212577-09BDF40
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

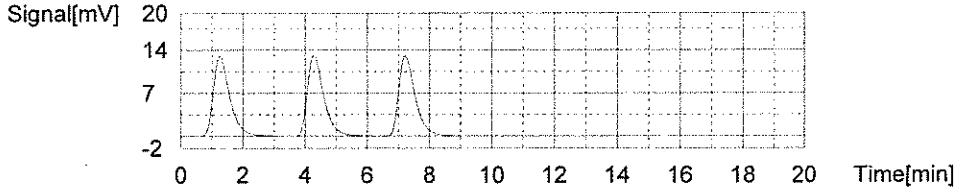
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.254mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	48.06	7.220mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:06:51 PM
2	48.44	7.283mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:09:58 PM
3	48.30	7.259mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:13:12 PM

Mean Area 48.27
Mean Conc. 7.254mg/L



Sample

Sample Name: 1212577-10BDF40
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

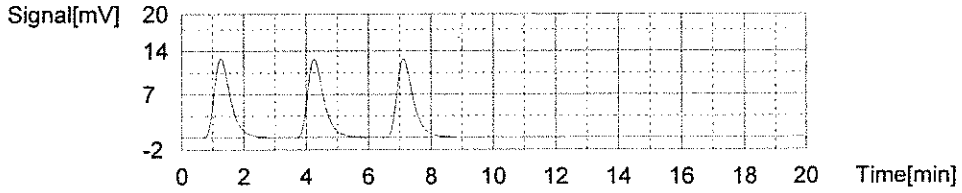
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.968mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.84	7.017mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:22:09 PM
2	45.85	6.853mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:25:11 PM
3	46.94	7.034mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:28:21 PM

Mean Area 46.54
Mean Conc. 6.968mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

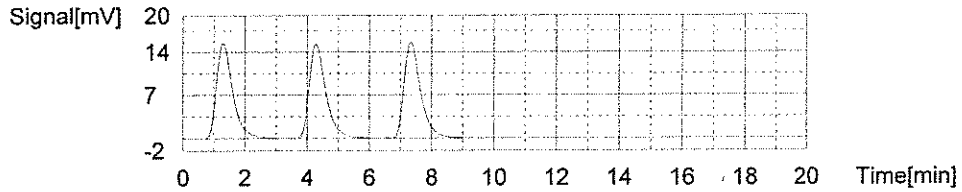
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.749mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.43	8.608mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:37:16 PM
2	57.23	8.741mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:40:30 PM
3	58.17	8.897mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:43:44 PM

Mean Area 57.28
Mean Conc. 8.749mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

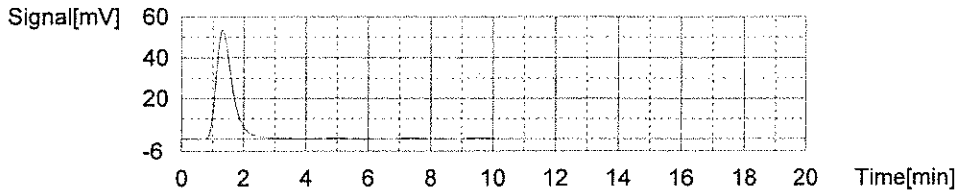
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4347mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	198.0	32.10mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:53:15 PM
2	2.152	-0.3975mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:55:50 PM
3	1.599	-0.4893mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 7:58:19 PM
4	2.032	-0.4174mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:00:47 PM

Mean Area 1.928
Mean Conc. -0.4347mg/L



Sample

Sample Name: WBLKW2-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

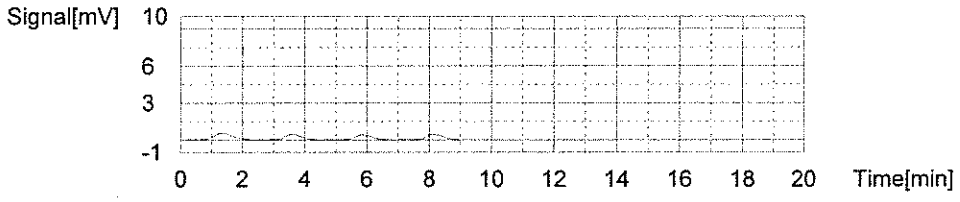
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.5004mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.034	-0.4171mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:08:54 PM
2	1.613	-0.4869mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:11:20 PM
3	1.492	-0.5070mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:13:48 PM
4	1.490	-0.5073mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:16:10 PM

Mean Area 1.532
Mean Conc. -0.5004mg/L



Sample

Sample Name: WLCSW2-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

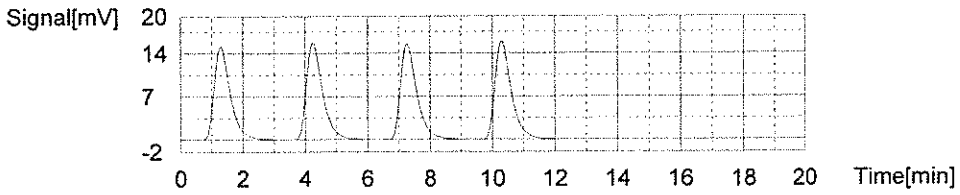
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.780mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	54.67	8.316mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:25:00 PM
2	57.12	8.723mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:28:11 PM
3	57.23	8.741mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:31:24 PM
4	58.05	8.877mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:34:34 PM

Mean Area 57.47
Mean Conc. 8.780mg/L



Sample

Sample Name: 1212646-01C
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

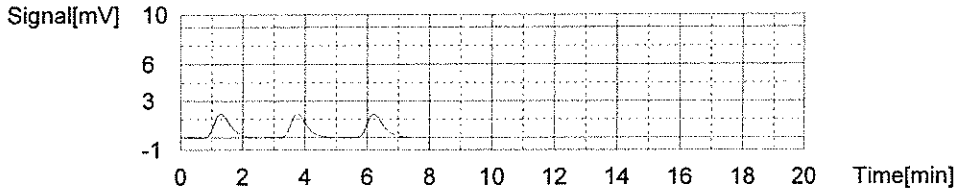
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4064mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.110	0.4251mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:42:55 PM
2	6.919	0.3934mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:45:33 PM
3	6.963	0.4007mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:48:14 PM

Mean Area 6.997
Mean Conc. 0.4064mg/L



Sample

Sample Name: 1212646-01CMS
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

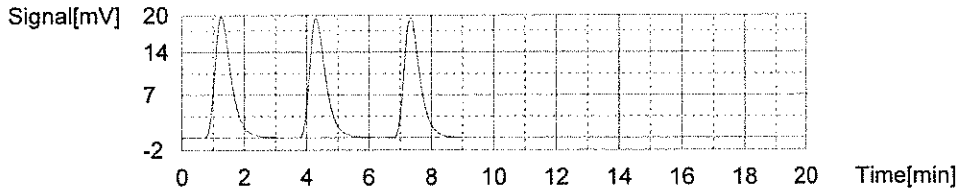
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.05mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.27	11.24mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 8:57:13 PM
2	70.44	10.93mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:00:26 PM
3	70.66	10.97mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:03:41 PM

Mean Area 71.12
Mean Conc. 11.05mg/L



Sample

Sample Name: 1212646-01CMSD
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

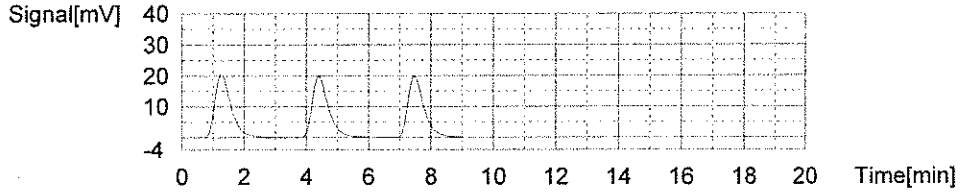
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:11.32mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	74.33	11.58mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:12:46 PM
2	71.87	11.17mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:16:01 PM
3	72.16	11.22mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:19:15 PM

Mean Area 72.79
Mean Conc. 11.32mg/L



Sample

Sample Name: 1212646-02C
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

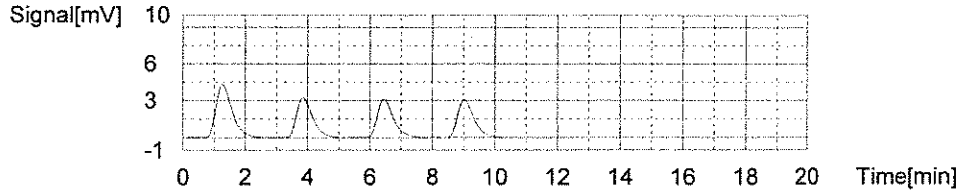
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.141mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.50	1.817mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:27:47 PM
2	11.70	1.187mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:30:33 PM
3	11.30	1.120mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:33:18 PM
4	11.28	1.117mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:36:05 PM

Mean Area 11.43
Mean Conc. 1.141mg/L



Sample

Sample Name: 1212646-03CDF10
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

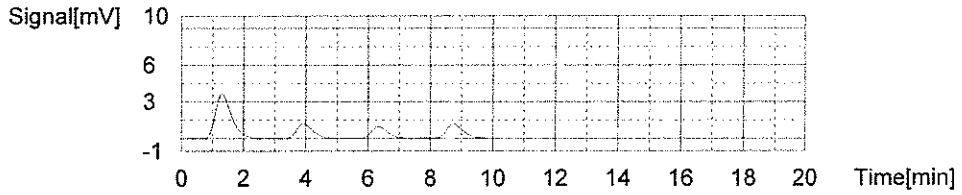
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.08131mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.20	1.436mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:44:35 PM
2	4.374	-0.02883mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:47:09 PM
3	3.547	-0.1660mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:49:44 PM
4	4.252	-0.04907mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 9:52:19 PM

Mean Area 4.058
Mean Conc. -0.08131mg/L



Sample

Sample Name: 1212646-04CDF20
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

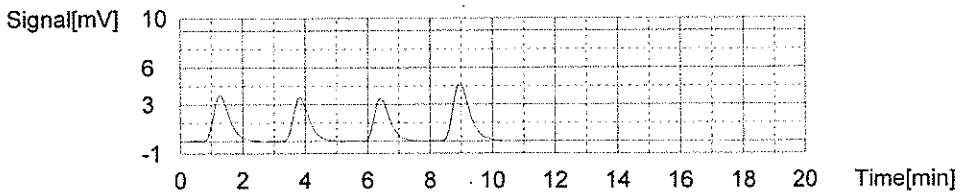
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.359mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	13.19	1.434mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:00:44 PM
2	12.67	1.348mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:03:30 PM
3	12.36	1.296mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:06:12 PM
4	17.48	2.146mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:09:03 PM

Mean Area 12.74
Mean Conc. 1.359mg/L



Sample

Sample Name: 1212646-05C
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

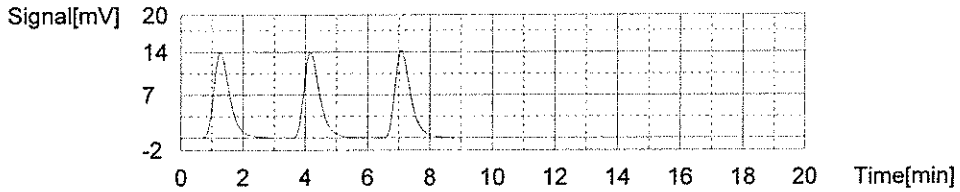
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.508mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	49.20	7.409mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:17:49 PM
2	49.57	7.470mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:20:55 PM
3	50.62	7.644mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:24:07 PM

Mean Area 49.80
Mean Conc. 7.508mg/L



Sample

Sample Name: 1212646-06C
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

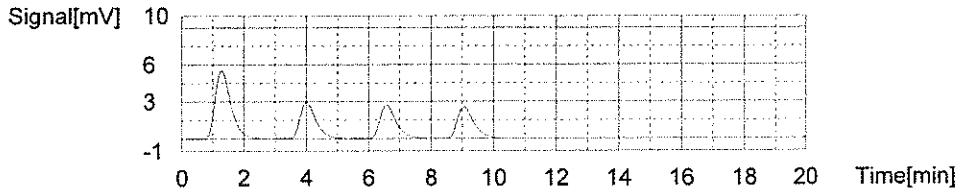
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.8912mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	19.78	2.527mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:32:48 PM
2	10.52	0.9909mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:35:33 PM
3	9.630	0.8433mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:38:12 PM
4	9.606	0.8393mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:40:55 PM

Mean Area 9.919
Mean Conc. 0.8912mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

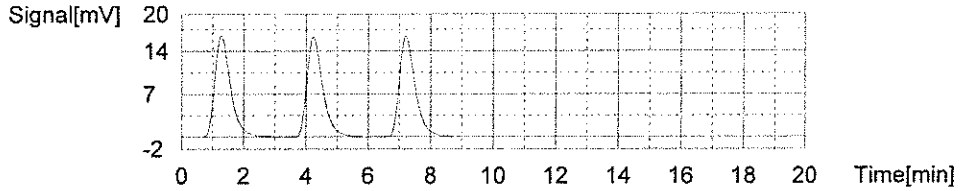
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.898mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.14	8.892mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:49:44 PM
2	58.20	8.902mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:52:53 PM
3	58.18	8.899mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 10:55:59 PM

Mean Area 58.17
Mean Conc. 8.898mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

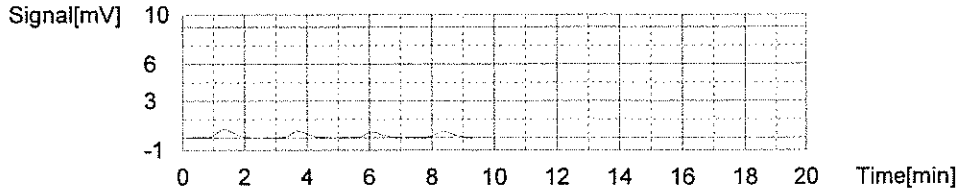
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4650mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.530	-0.3348mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:04:18 PM
2	1.984	-0.4254mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:06:52 PM
3	1.589	-0.4909mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:09:20 PM
4	1.662	-0.4788mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:11:47 PM

Mean Area 1.745
Mean Conc. -0.4650mg/L



Sample

Sample Name: 1212629-02DDF20
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

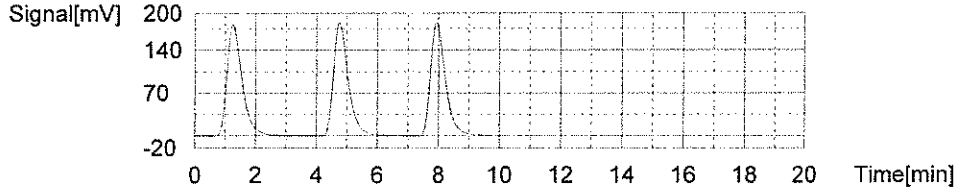
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:104.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	633.6	104.4mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:21:10 PM
2	633.8	104.4mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:24:32 PM
3	635.8	104.7mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:28:02 PM

Mean Area 634.4
Mean Conc. 104.5mg/L



Sample

Sample Name: 1212673-01B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

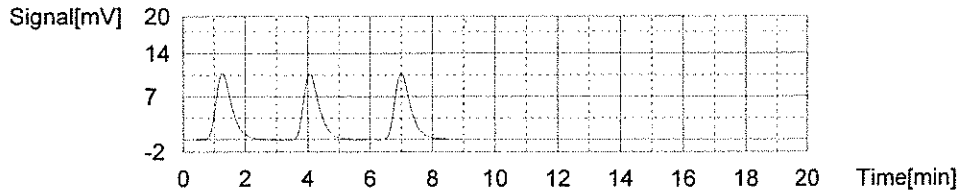
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:5.628mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	38.15	5.575mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:36:48 PM
2	38.51	5.635mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:39:54 PM
3	38.75	5.675mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:42:53 PM

Mean Area 38.47
Mean Conc. 5.628mg/L



Sample

Sample Name: 1212673-02B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

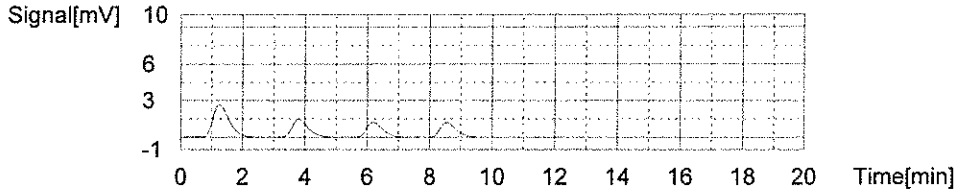
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.01669mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	9.603	0.8388mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:51:22 PM
2	5.212	0.1102mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:53:56 PM
3	4.420	-0.02119mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:56:28 PM
4	4.313	-0.03895mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/29/2012 11:59:02 PM

Mean Area 4.648
Mean Conc. 0.01669mg/L



Sample

Sample Name: 1212673-03B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

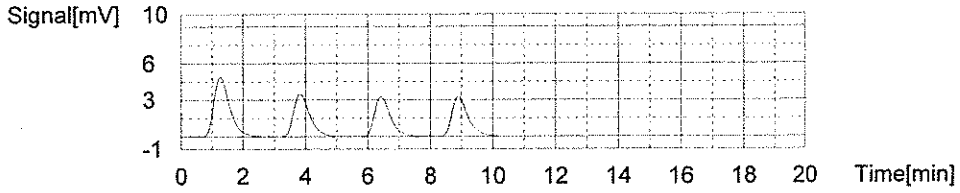
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.236mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.33	2.121mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:07:28 AM
2	12.69	1.351mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:10:14 AM
3	11.54	1.160mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:12:54 AM
4	11.77	1.198mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:15:40 AM

Mean Area 12.00
Mean Conc. 1.236mg/L



Sample

Sample Name: 1212673-04B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

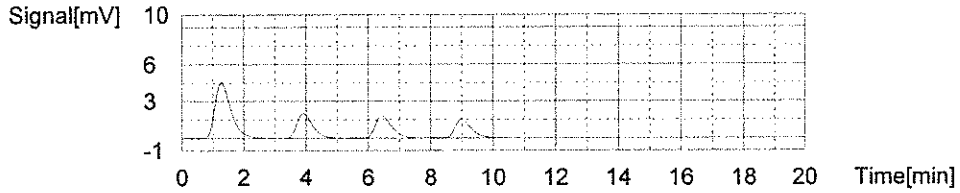
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.3191mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.42	1.970mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:24:11 AM
2	7.278	0.4530mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:26:52 AM
3	6.712	0.3591mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:29:37 AM
4	5.423	0.1452mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:32:10 AM

Mean Area 6.471
Mean Conc. 0.3191mg/L



Sample

Sample Name: 1212673-05B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

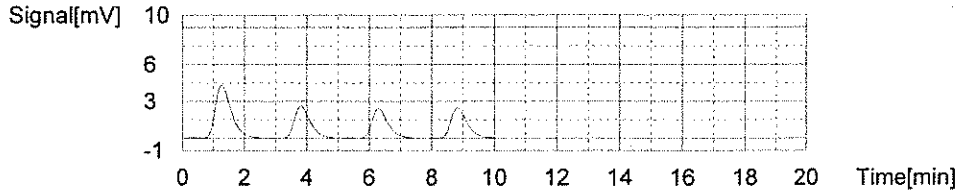
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.7359mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	15.39	1.799mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:40:35 AM
2	9.440	0.8117mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:43:16 AM
3	8.614	0.6747mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:45:59 AM
4	8.895	0.7213mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:48:39 AM

Mean Area 8.983
Mean Conc. 0.7359mg/L



Sample

Sample Name: 1212673-06B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

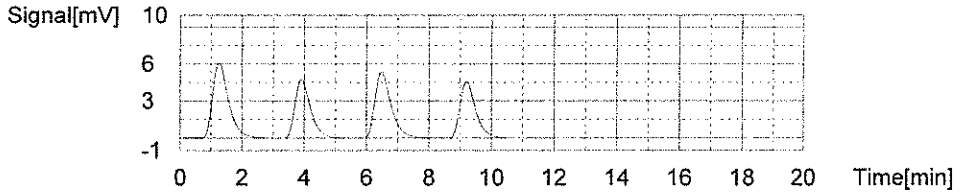
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.126mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.58	2.826mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:57:11 AM
2	16.55	1.991mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 12:59:55 AM
3	19.44	2.471mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:02:50 AM
4	16.09	1.915mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:05:32 AM

Mean Area 17.36
Mean Conc. 2.126mg/L



Sample

Sample Name: 1212673-07B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

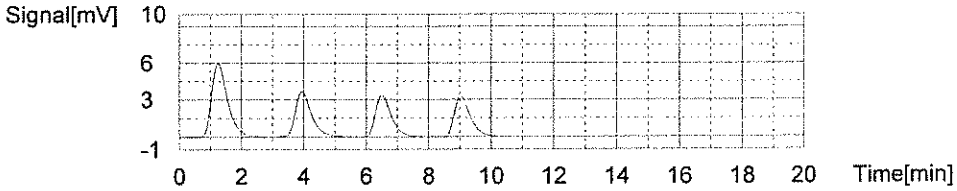
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.284mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	21.40	2.796mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:14:06 AM
2	13.16	1.429mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:16:50 AM
3	12.00	1.236mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:19:33 AM
4	11.70	1.187mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:22:21 AM

Mean Area 12.29
Mean Conc. 1.284mg/L



Sample

Sample Name: 1212673-08B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

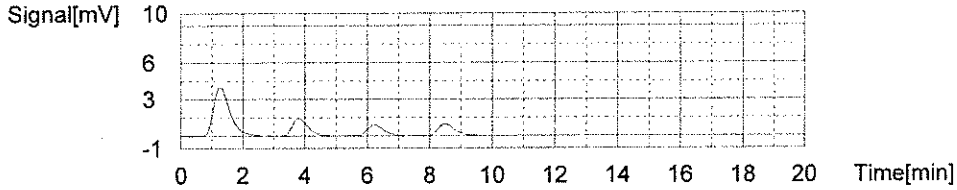
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1017mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	14.46	1.645mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:31:24 AM
2	5.049	0.08317mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:33:59 AM
3	3.255	-0.2145mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:36:25 AM
4	3.501	-0.1737mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:38:57 AM

Mean Area 3.935
Mean Conc. -0.1017mg/L



Sample

Sample Name: 1212596-01A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

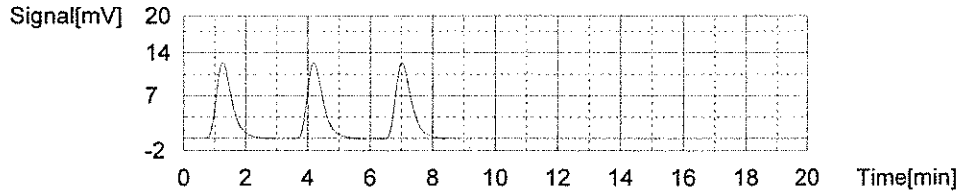
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.541mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	43.79	6.511mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:47:46 AM
2	43.97	6.541mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:50:46 AM
3	44.15	6.571mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 1:53:53 AM

Mean Area 43.97
Mean Conc. 6.541mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

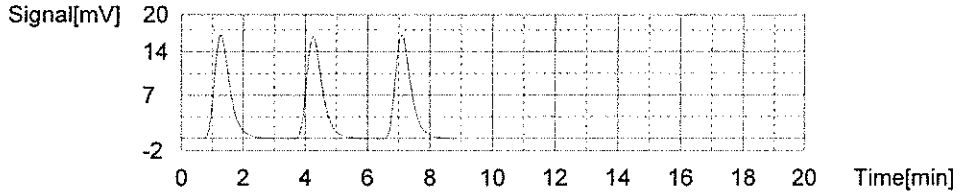
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.045mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.17	9.063mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:02:50 AM
2	58.62	8.972mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:05:52 AM
3	59.40	9.101mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:08:59 AM

Mean Area 59.06
Mean Conc. 9.045mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

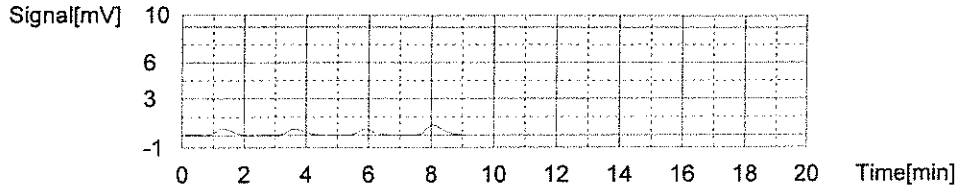
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4574mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.912	-0.4373mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:17:16 AM
2	1.786	-0.4582mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:19:50 AM
3	1.675	-0.4767mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:22:13 AM
4	3.091	-0.2417mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:24:43 AM

Mean Area 1.791
Mean Conc. -0.4574mg/L



Sample

Sample Name: WBLKW3-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

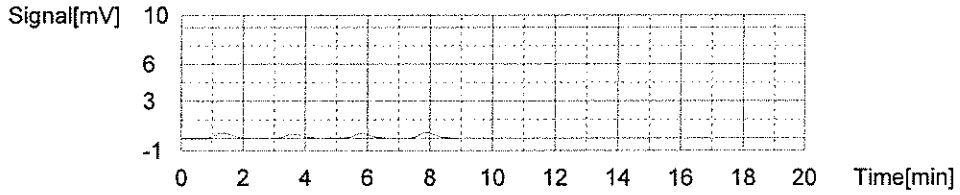
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.5367mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.490	-0.5073mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:32:53 AM
2	1.192	-0.5568mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:35:16 AM
3	1.258	-0.5458mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:37:32 AM
4	1.603	-0.4886mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:39:56 AM

Mean Area 1.313
Mean Conc. -0.5367mg/L



Sample

Sample Name: WLCSW3-122912
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

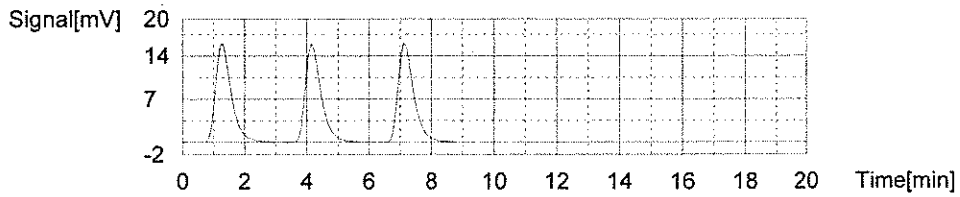
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.584mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.14	8.560mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:48:44 AM
2	56.06	8.547mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:51:54 AM
3	56.64	8.643mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 2:55:02 AM

Mean Area 56.28
Mean Conc. 8.584mg/L



Sample

Sample Name: 1212551-01G
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

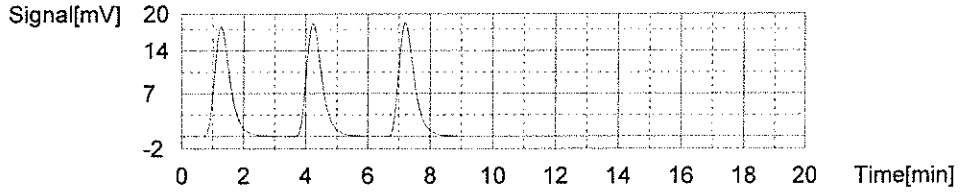
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.961mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.22	9.735mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:03:58 AM
2	65.15	10.06mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:07:07 AM
3	65.38	10.09mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:10:16 AM

Mean Area 64.58
Mean Conc. 9.961mg/L



Sample

Sample Name: 1212551-01GMS
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

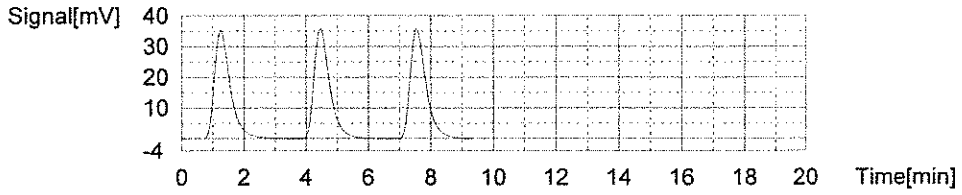
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.17mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	124.8	19.95mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:19:27 AM
2	126.2	20.18mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:22:43 AM
3	127.3	20.37mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:25:59 AM

Mean Area 126.1
Mean Conc. 20.17mg/L



Sample

Sample Name: 1212551-01GMSD
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

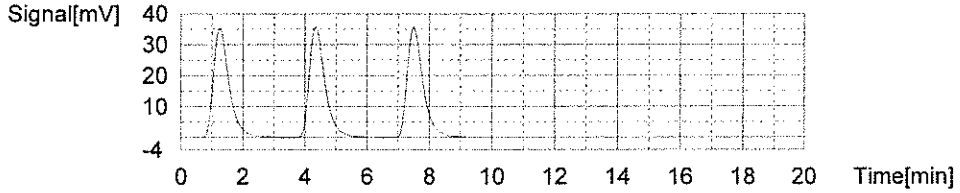
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.25mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	125.1	20.00mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:35:03 AM
2	127.5	20.40mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:38:23 AM
3	127.1	20.33mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:41:39 AM

Mean Area 126.6
Mean Conc. 20.25mg/L



Sample

Sample Name: 1212586-01ADF10
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

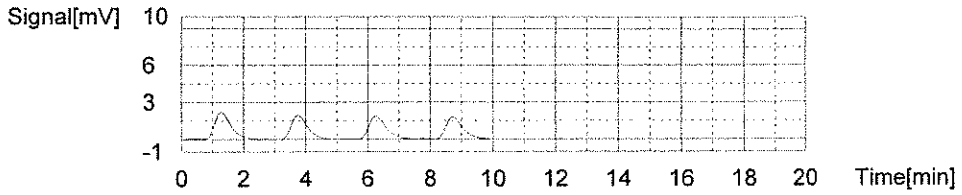
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4076mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	7.928	0.5609mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:50:05 AM
2	7.264	0.4507mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:52:46 AM
3	7.055	0.4160mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:55:25 AM
4	6.693	0.3559mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 3:58:08 AM

Mean Area 7.004
Mean Conc. 0.4076mg/L



Sample

Sample Name: 1212587-01A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

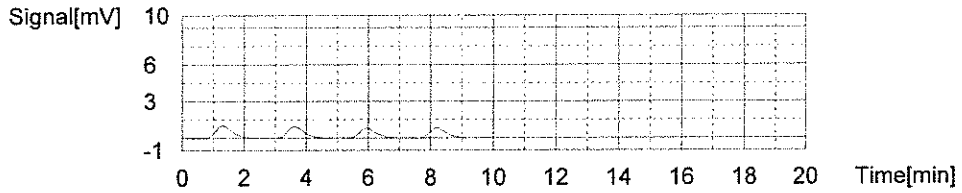
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.2404mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.685	-0.1431mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:06:21 AM
2	3.447	-0.1826mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:08:52 AM
3	2.905	-0.2726mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:11:18 AM
4	2.944	-0.2661mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:13:48 AM

Mean Area 3.099
Mean Conc. -0.2404mg/L



Sample

Sample Name: 1212594-01A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

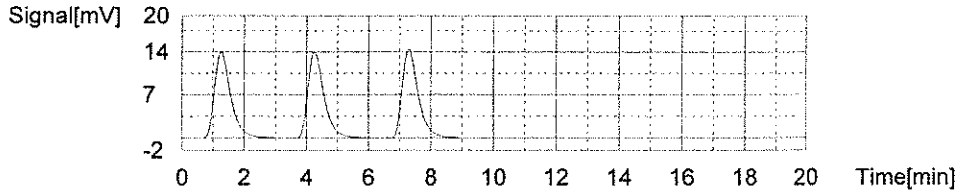
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:7.716mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	50.45	7.616mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:22:41 AM
2	50.84	7.681mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:25:54 AM
3	51.87	7.852mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:29:00 AM

Mean Area 51.05
Mean Conc. 7.716mg/L



Sample

Sample Name: 1212594-02A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

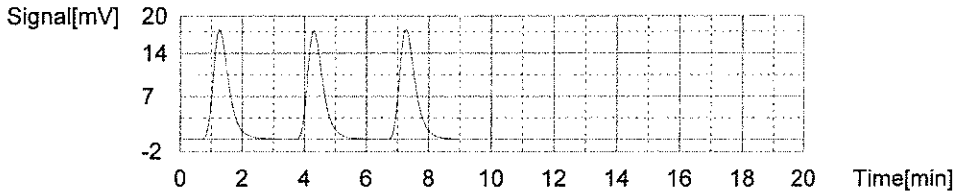
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.821mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	63.43	9.770mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:38:01 AM
2	62.89	9.680mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:41:10 AM
3	64.89	10.01mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:44:20 AM

Mean Area 63.74
Mean Conc. 9.821mg/L



Sample

Sample Name: 1212594-03ADF20
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

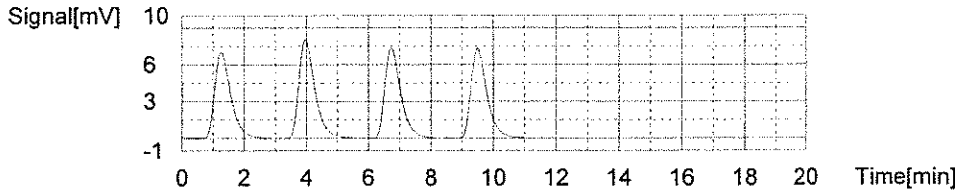
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.562mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.31	3.445mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:53:29 AM
2	28.98	4.054mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:56:26 AM
3	26.49	3.641mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 4:59:23 AM
4	26.25	3.601mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:02:19 AM

Mean Area 26.02
Mean Conc. 3.562mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

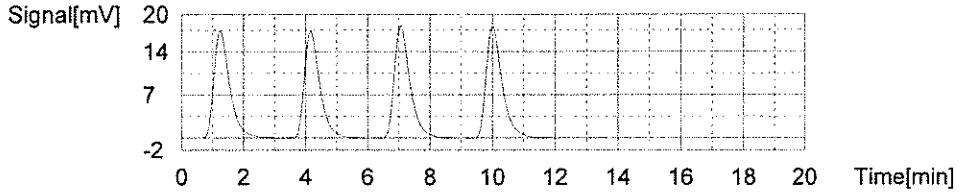
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.842mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.93	9.521mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:11:10 AM
2	60.86	9.343mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:14:14 AM
3	64.79	9.996mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:17:22 AM
4	64.88	10.01mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:20:32 AM

Mean Area 63.87
Mean Conc. 9.842mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

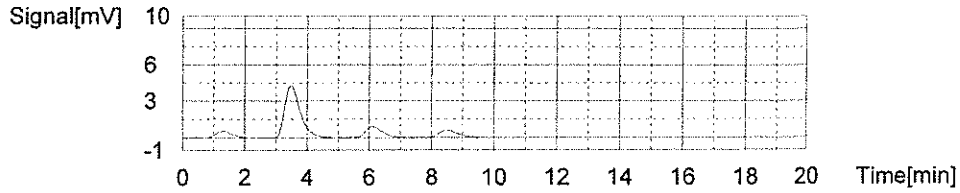
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.3389mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.927	-0.4348mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:28:42 AM
2	14.85	1.709mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:31:27 AM
3	3.265	-0.2128mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:33:58 AM
4	2.323	-0.3691mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:36:32 AM

Mean Area 2.505
Mean Conc. -0.3389mg/L



Sample

Sample Name: 1212665-01A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

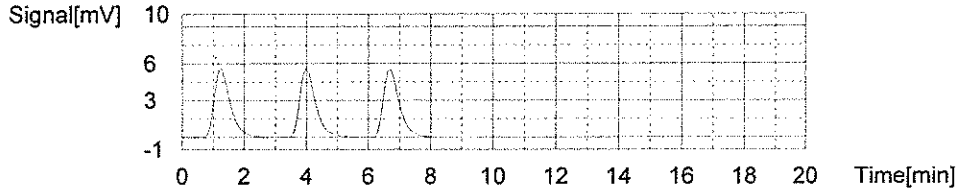
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:2.566mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.10	2.580mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:45:11 AM
2	20.00	2.564mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:48:04 AM
3	19.94	2.554mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:50:54 AM

Mean Area 20.01
Mean Conc. 2.566mg/L



Sample

Sample Name: 1212790-10B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

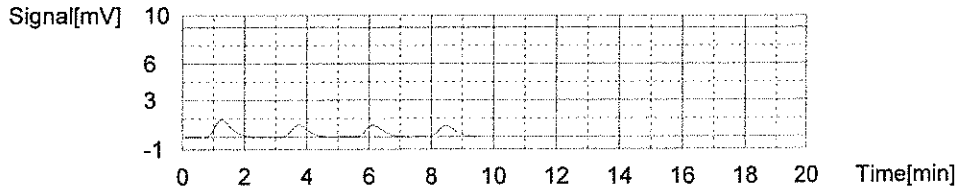
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.1714mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.274	0.1205mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 5:59:21 AM
2	3.737	-0.1345mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:01:55 AM
3	3.414	-0.1881mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:04:27 AM
4	3.394	-0.1914mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:07:02 AM

Mean Area 3.515
Mean Conc. -0.1714mg/L



Sample

Sample Name: 1212790-11B
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

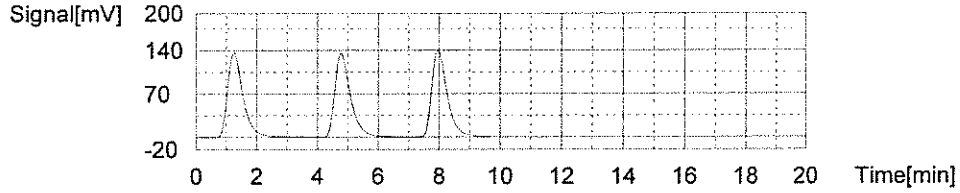
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:81.04mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	487.0	80.05mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:16:29 AM
2	492.2	80.91mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:19:51 AM
3	499.7	82.16mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:23:18 AM

Mean Area 493.0
Mean Conc. 81.04mg/L



Sample

Sample Name: 1212691-01A
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

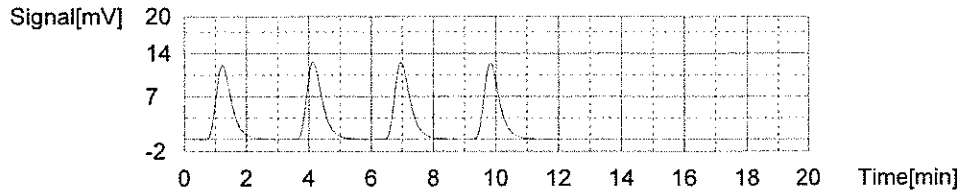
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:6.591mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	42.83	6.352mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:32:12 AM
2	44.37	6.607mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:35:12 AM
3	44.69	6.661mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:38:16 AM
4	43.76	6.506mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:41:18 AM

Mean Area 44.27
Mean Conc. 6.591mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

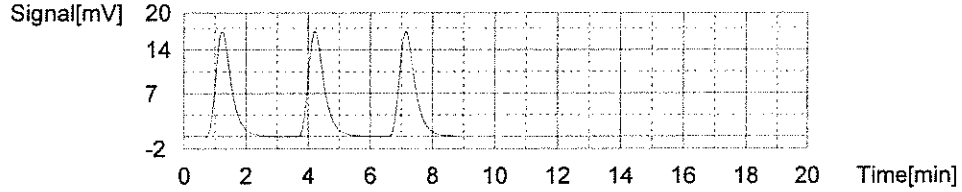
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.259mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.61	9.136mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:50:10 AM
2	60.81	9.335mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:53:17 AM
3	60.64	9.307mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 6:56:32 AM

Mean Area 60.35
Mean Conc. 9.259mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 122612CAL.cal
Status Completed
Chk. Result

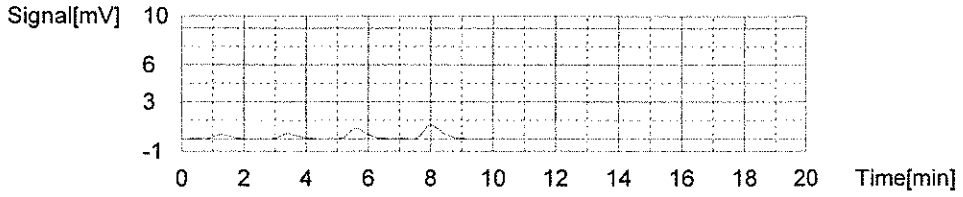
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.4188mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.319	-0.5357mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 7:04:38 AM
2	1.551	-0.4972mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 7:06:59 AM
3	3.201	-0.2235mg/L	50uL	1		122612CAL.2012_12_26_16_53_57.cal	12/30/2012 7:09:32 AM
4	4.348	-0.03314mg/L	50uL	1	E	122612CAL.2012_12_26_16_53_57.cal	12/30/2012 7:12:11 AM

Mean Area	2.024
Mean Conc.	-0.4188mg/L



	Type	Analysis	Sample Name	Sample ID	Origin	Result	Notes
1	Unknown	NPOC	CCV	Untitled	011613CAL.cal	NPOC:8.702mg/L	
2	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:0.08302mg/L	
3	Unknown	NPOC	WBLKW-022013	Untitled	011613CAL.cal	NPOC:0.09240mg/L	
4	Unknown	NPOC	WLCSW	Untitled	011613CAL.cal	NPOC:8.429mg/L	
5	Unknown	NPOC	WLCSDW	Untitled	011613CAL.cal	NPOC:8.618mg/L	
6	Unknown	NPOC	1212646-03BDF2	Untitled	011613CAL.cal	NPOC:0.4777mg/L	
7	Unknown	NPOC	1212646-03CDF2	Untitled	011613CAL.cal	NPOC:0.4797mg/L	
8	Unknown	NPOC	1212646-03CDUPDF2	Untitled	011613CAL.cal	NPOC:0.5697mg/L	
9	Unknown	NPOC	1212646-06BDF2	Untitled	011613CAL.cal	NPOC:4.239mg/L	
10	Unknown	NPOC	1212646-06CDF2	Untitled	011613CAL.cal	NPOC:4.090mg/L	
11	Unknown	NPOC	CCV	Untitled	011613CAL.cal	NPOC:8.518mg/L	
12	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:1.465mg/L	
13	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:0.03721mg/L	
14	Unknown	NPOC	WBLKW2	Untitled	011613CAL.cal	NPOC:-0.09843mg/L	
15	Unknown	NPOC	WLCSW	Untitled	011613CAL.cal	NPOC:9.107mg/L	
16	Unknown	NPOC	1302521-01CDF10	Untitled	011613CAL.cal	NPOC:149.4mg/L	
17	Unknown	NPOC	1302521-02C	Untitled	011613CAL.cal	NPOC:3.134mg/L	
18	Unknown	NPOC	1302521-04C	Untitled	011613CAL.cal	NPOC:14.22mg/L	
19	Unknown	NPOC	1302521-05C	Untitled	011613CAL.cal	NPOC:1.193mg/L	
20	Unknown	NPOC	1302521-06C	Untitled	011613CAL.cal	NPOC:1.476mg/L	
21	Unknown	NPOC	1302521-07C	Untitled	011613CAL.cal	NPOC:20.96mg/L	
22	Unknown	NPOC	1302521-08C	Untitled	011613CAL.cal	NPOC:1.415mg/L	
23	Unknown	NPOC	1302521-09C	Untitled	011613CAL.cal	NPOC:68.76mg/L	
24	Unknown	NPOC	CCV	Untitled	011613CAL.cal	NPOC:9.322mg/L	
25	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:0.03536mg/L	
26	Unknown	NPOC	1302521-10C	Untitled	011613CAL.cal	NPOC:1.572mg/L	
27	Unknown	NPOC	1302521-11C	Untitled	011613CAL.cal	NPOC:1.672mg/L	
28	Unknown	NPOC	1302521-11CMS	Untitled	011613CAL.cal	NPOC:9.618mg/L	
29	Unknown	NPOC	1302521-11CMSD	Untitled	011613CAL.cal	NPOC:9.342mg/L	
30	Unknown	NPOC	1302521-12C	Untitled	011613CAL.cal	NPOC:251.5mg/L	
31	Unknown	NPOC	1302521-13C	Untitled	011613CAL.cal	NPOC:1.492mg/L	
32	Unknown	NPOC	1302521-14C	Untitled	011613CAL.cal	NPOC:4.114mg/L	
33	Unknown	NPOC	1302488-01E	Untitled	011613CAL.cal	NPOC:9.301mg/L	
34	Unknown	NPOC	1302521-01CDF40	Untitled	011613CAL.cal	NPOC:29.00mg/L	
35	Unknown	NPOC	CCV	Untitled	011613CAL.cal	NPOC:9.147mg/L	
36	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:0.04138mg/L	
37	Unknown	NPOC	1302521-09CDF2	Untitled	011613CAL.cal	NPOC:34.76mg/L	
38	Unknown	NPOC	1302521-12CDF10	Untitled	011613CAL.cal	NPOC:25.01mg/L	
39	Unknown	NPOC	CCV	Untitled	011613CAL.cal	NPOC:9.135mg/L	
40	Unknown	NPOC	CCB	Untitled	011613CAL.cal	NPOC:0.05146mg/L	

	Status	Date / Time	Vial
1	Completed	2/20/2013 11:45:59 AM	1
2	Completed	2/20/2013 12:03:32 PM	2
3	Completed	2/20/2013 12:21:17 PM	3
4	Completed	2/20/2013 12:38:43 PM	4
5	Completed	2/20/2013 1:00:07 PM	5
6	Completed	2/20/2013 1:18:18 PM	6
7	Completed	2/20/2013 1:36:46 PM	7
8	Completed	2/20/2013 1:55:31 PM	8
9	Completed	2/20/2013 2:15:51 PM	9
10	Completed	2/20/2013 2:35:43 PM	10
11	Completed	2/20/2013 2:53:06 PM	11
12	Completed	2/20/2013 3:13:27 PM	12
13	Completed	2/20/2013 4:26:05 PM	13
14	Completed	2/20/2013 6:12:33 PM	14
15	Completed	2/20/2013 6:30:35 PM	15
16	Completed	2/20/2013 6:50:06 PM	16
17	Completed	2/20/2013 7:10:27 PM	17
18	Completed	2/20/2013 7:35:23 PM	18
19	Completed	2/20/2013 7:53:41 PM	19
20	Completed	2/20/2013 8:13:10 PM	20
21	Completed	2/20/2013 8:31:51 PM	21
22	Completed	2/20/2013 8:51:45 PM	22
23	Completed	2/20/2013 9:15:12 PM	23
24	Completed	2/20/2013 9:37:25 PM	24
25	Completed	2/20/2013 9:55:03 PM	25
26	Completed	2/20/2013 10:14:03 PM	26
27	Completed	2/20/2013 10:33:20 PM	27
28	Completed	2/20/2013 10:54:25 PM	28
29	Completed	2/20/2013 11:16:05 PM	29
30	Completed	2/20/2013 11:40:46 PM	30
31	Completed	2/20/2013 11:59:54 PM	31
32	Completed	2/21/2013 12:19:56 AM	32
33	Completed	2/21/2013 12:41:03 AM	33
34	Completed	2/21/2013 1:03:21 AM	34
35	Completed	2/21/2013 1:24:35 AM	35
36	Completed	2/21/2013 1:41:51 AM	36
37	Completed	2/21/2013 9:04:31 AM	37
38	Completed	2/21/2013 9:25:37 AM	38
39	Completed	2/21/2013 11:37:36 AM	39
40	Completed	2/21/2013 11:55:18 AM	40

Instr.Information

System	TOC CSH with ASI
Instrument Options	TOC/ASI/IC Unit/
Catalyst	Regular Sensitivity

Sample

Sample Name:	CCV
Sample ID:	Untitled
Origin:	011613CAL.cal
Status	Completed
Chk. Result	

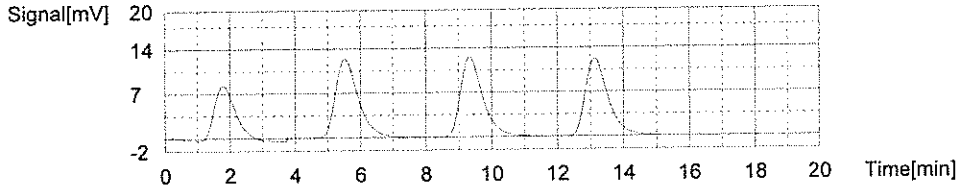
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.702mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	40.91	5.885mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:34:00 AM
2	60.46	8.827mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:38:02 AM
3	59.51	8.684mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:42:00 AM
4	58.92	8.596mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:45:59 AM

Mean Area	59.63
Mean Conc.	8.702mg/L



Sample

Sample Name:	CCB
Sample ID:	Untitled
Origin:	011613CAL.cal
Status	Completed
Chk. Result	

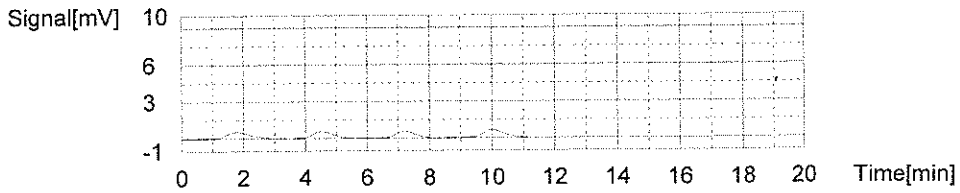
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.08302mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.230	0.06325mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:54:39 AM
2	2.406	0.08974mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:57:34 AM
3	2.448	0.09606mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:00:32 PM
4	2.672	0.1298mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:03:32 PM

Mean Area 2.361
Mean Conc. 0.08302mg/L



Sample

Sample Name: WBLKW-022013
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

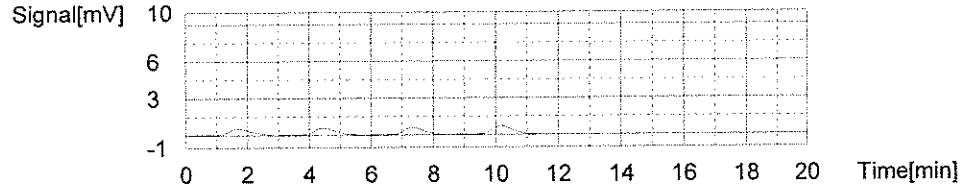
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.09240mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.146	0.05061mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:12:08 PM
2	2.519	0.1067mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:15:14 PM
3	2.606	0.1198mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:18:15 PM
4	3.019	0.1820mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:21:17 PM

Mean Area 2.424
Mean Conc. 0.09240mg/L



Sample

Sample Name: WLCSW
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

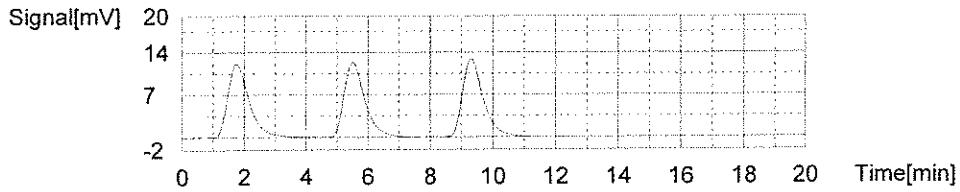
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.429mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	56.79	8.275mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:30:55 PM
2	57.90	8.442mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:34:56 PM
3	58.76	8.571mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:38:43 PM

Mean Area 57.82
Mean Conc. 8.429mg/L



Sample

Sample Name: WLCSDW
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

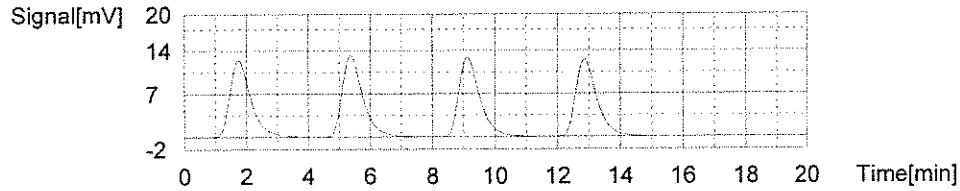
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.618mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	58.25	8.495mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:48:18 PM
2	61.37	8.964mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:52:15 PM
3	60.25	8.796mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 12:56:08 PM
4	58.71	8.564mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:00:07 PM

Mean Area 59.07
Mean Conc. 8.618mg/L



Sample

Sample Name: 1212646-03BDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

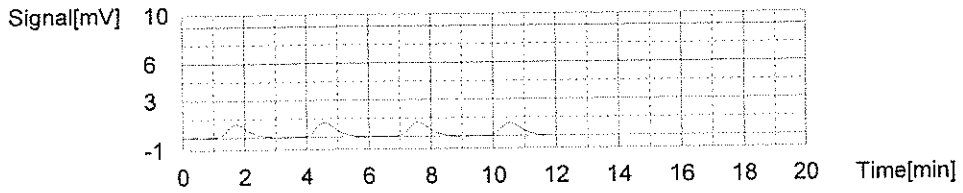
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4777mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	4.667	0.4300mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:08:51 PM
2	5.114	0.4973mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:12:01 PM
3	5.048	0.4874mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:15:08 PM
4	4.790	0.4485mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:18:18 PM

Mean Area 4.984
Mean Conc. 0.4777mg/L



Sample

Sample Name: 1212646-03CDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

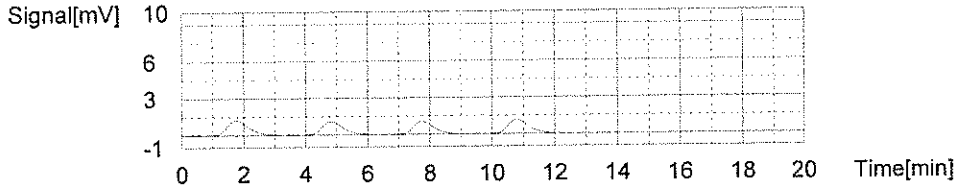
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.4797mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	5.728	0.5897mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:27:14 PM
2	4.902	0.4654mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:30:23 PM
3	4.826	0.4540mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:33:36 PM
4	5.262	0.5196mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:36:46 PM

Mean Area 4.997
Mean Conc. 0.4797mg/L



Sample

Sample Name: 1212646-03CDUPDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

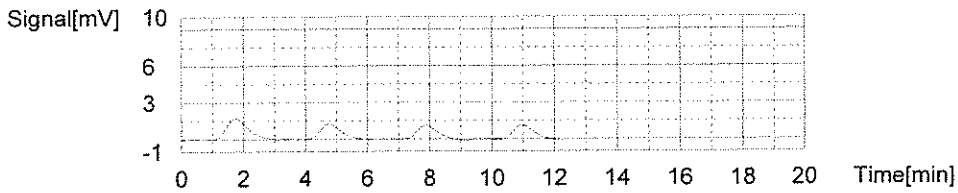
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.5697mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	8.085	0.9445mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:45:39 PM
2	5.869	0.6109mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:48:58 PM
3	5.327	0.5294mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:52:16 PM
4	5.589	0.5688mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 1:55:31 PM

Mean Area 5.595
Mean Conc. 0.5697mg/L



Sample

Sample Name: 1212646-06BDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

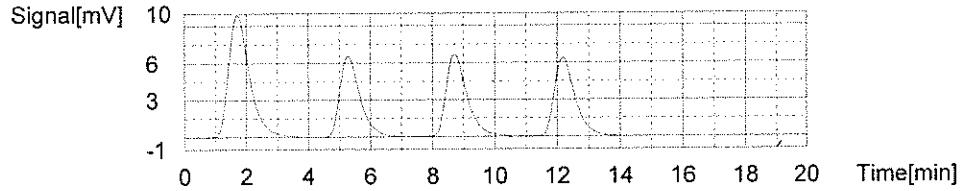
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.239mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.54	6.732mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:05:00 PM
2	29.88	4.225mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:08:36 PM
3	30.80	4.363mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:12:15 PM
4	29.25	4.130mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:15:51 PM

Mean Area 29.98
Mean Conc. 4.239mg/L



Sample

Sample Name: 1212646-06CDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

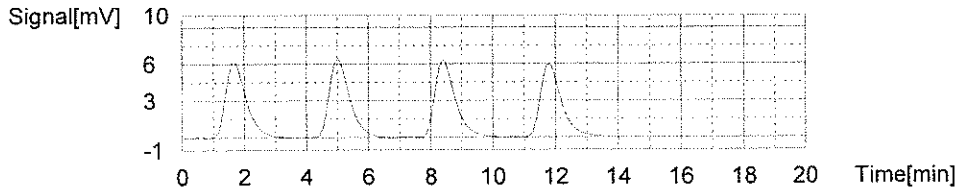
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.090mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	28.62	4.035mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:25:03 PM
2	29.66	4.192mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:28:38 PM
3	28.68	4.044mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:32:12 PM
4	27.29	3.835mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:35:43 PM

Mean Area 28.99
Mean Conc. 4.090mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

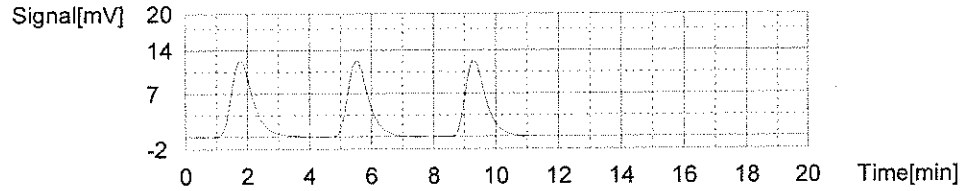
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:8.518mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	59.57	8.693mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:45:19 PM
2	58.29	8.501mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:49:21 PM
3	57.35	8.359mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 2:53:06 PM

Mean Area 58.40
Mean Conc. 8.518mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

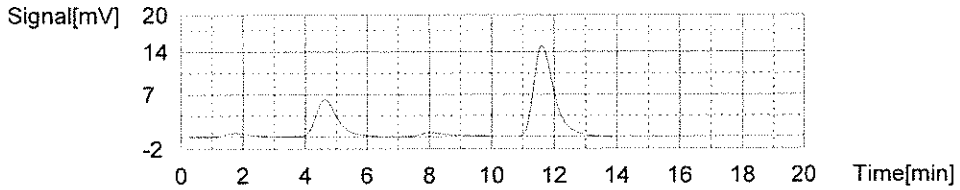
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.465mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.297	0.07334mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 3:01:48 PM
2	29.19	4.121mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 3:05:33 PM
3	3.143	0.2007mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 3:09:14 PM
4	68.84	10.09mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 3:13:27 PM

Mean Area 11.54
Mean Conc. 1.465mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

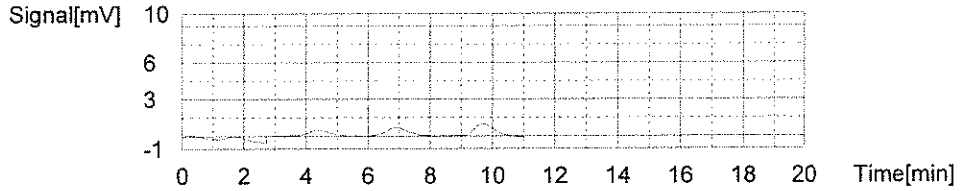
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03721mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1.061	-0.1127mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 4:17:15 PM
2	1.764	-0.00689mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 4:20:00 PM
3	3.346	0.2312mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 4:22:57 PM
4	4.448	0.3971mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 4:26:05 PM

Mean Area 2.057
Mean Conc. 0.03721mg/L



Sample

Sample Name: WBLKW2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

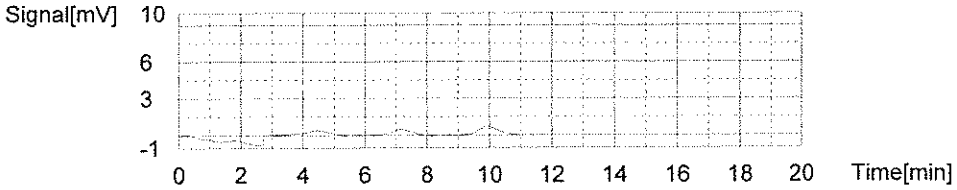
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:-0.09843mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	0.4602	-0.2031mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:03:39 PM
2	1.203	-0.09132mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:06:33 PM
3	1.804	-0.00087mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:09:32 PM
4	2.695	0.1332mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:12:33 PM

Mean Area 1.156
Mean Conc. -0.09843mg/L



Sample

Sample Name: WLCSW
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

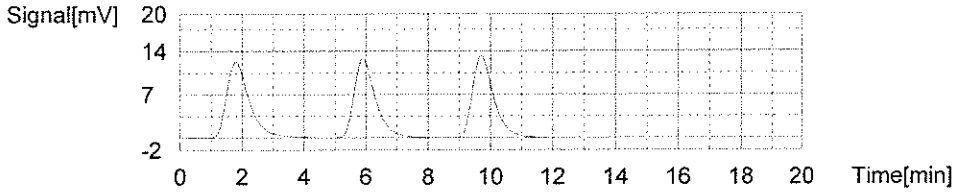
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.107mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	61.69	9.012mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:22:31 PM
2	61.70	9.014mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:26:30 PM
3	63.57	9.295mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:30:35 PM

Mean Area 62.32
Mean Conc. 9.107mg/L



Sample

Sample Name: 1302521-01CDF10
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

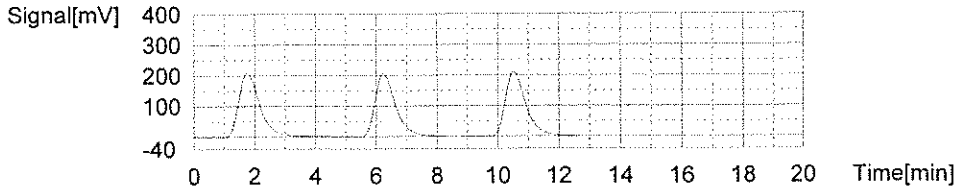
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:149.4mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1005	151.0mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:41:02 PM
2	982.9	147.7mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:45:30 PM
3	994.5	149.4mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:50:06 PM

Mean Area 994.1
Mean Conc. 149.4mg/L



Sample

Sample Name: 1302521-02C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

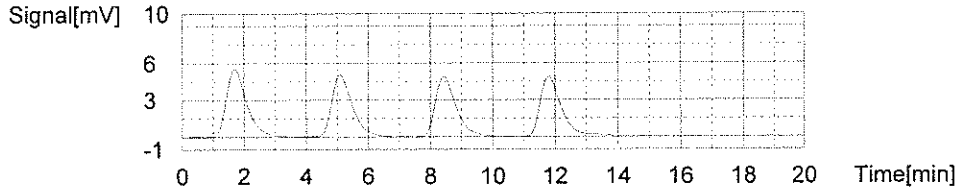
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:3.134mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	24.83	3.465mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 6:59:25 PM
2	22.91	3.176mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:02:57 PM
3	22.41	3.100mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:06:30 PM
4	22.57	3.125mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:10:27 PM

Mean Area 22.63
Mean Conc. 3.134mg/L



Sample

Sample Name: 1302521-04C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

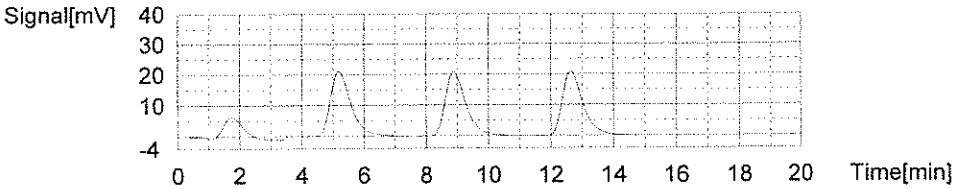
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:14.22mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	30.66	4.342mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:23:32 PM
2	96.77	14.29mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:27:25 PM
3	96.19	14.20mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:31:21 PM
4	96.01	14.18mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:35:23 PM

Mean Area 96.32
Mean Conc. 14.22mg/L



Sample

Sample Name: 1302521-05C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

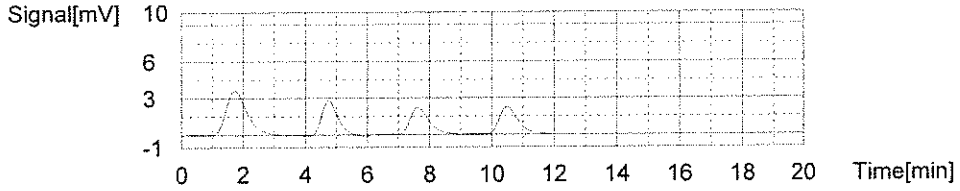
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.193mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	16.86	2.265mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:44:34 PM
2	10.93	1.373mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:47:30 PM
3	8.995	1.081mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:50:32 PM
4	9.274	1.123mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 7:53:41 PM

Mean Area 9.733
Mean Conc. 1.193mg/L



Sample

Sample Name: 1302521-06C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

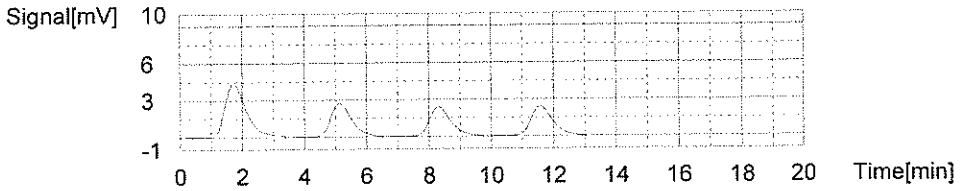
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.476mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	20.13	2.757mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:02:56 PM
2	12.38	1.591mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:06:16 PM
3	11.14	1.404mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:09:41 PM
4	11.33	1.433mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:13:10 PM

Mean Area 11.62
Mean Conc. 1.476mg/L



Sample

Sample Name: 1302521-07C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

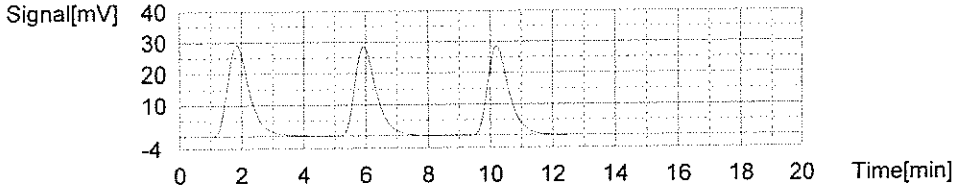
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:20.96mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	144.0	21.40mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:23:09 PM
2	140.5	20.87mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:27:36 PM
3	138.7	20.60mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:31:51 PM

Mean Area 141.1
Mean Conc. 20.96mg/L



Sample

Sample Name: 1302521-08C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

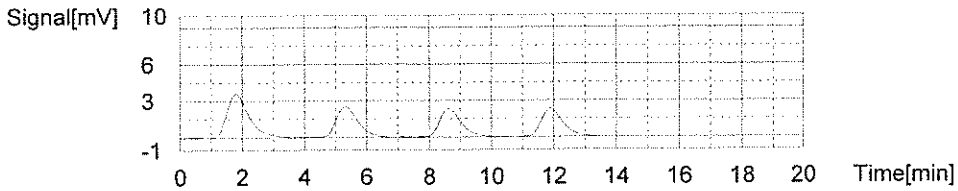
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.415mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	17.36	2.340mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:41:18 PM
2	11.91	1.520mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:44:48 PM
3	10.92	1.371mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:48:15 PM
4	10.80	1.353mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 8:51:45 PM

Mean Area 11.21
Mean Conc. 1.415mg/L



Sample

Sample Name: 1302521-09C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

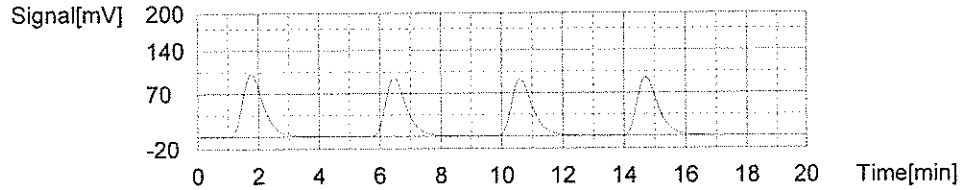
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:68.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	492.9	73.91mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:02:18 PM
2	463.2	69.44mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:06:37 PM
3	447.6	67.09mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:10:54 PM
4	465.2	69.74mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:15:12 PM

Mean Area 458.7
Mean Conc. 68.76mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

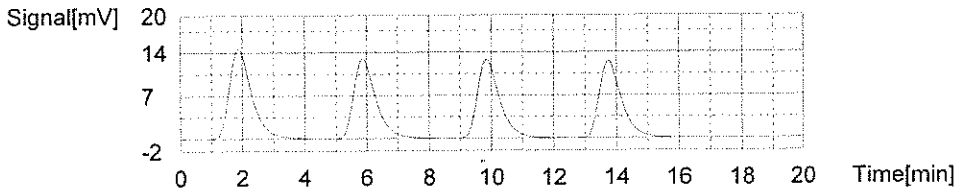
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.322mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	73.03	10.72mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:25:03 PM
2	65.55	9.593mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:29:14 PM
3	63.47	9.280mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:33:18 PM
4	62.23	9.094mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:37:25 PM

Mean Area 63.75
Mean Conc. 9.322mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

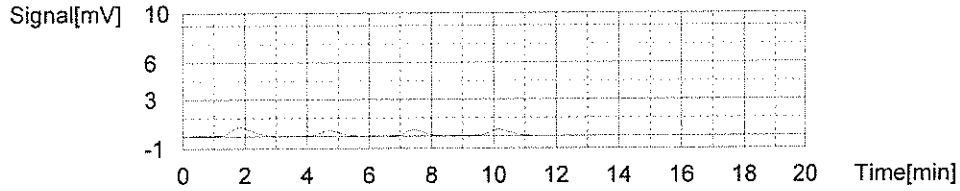
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.03536mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	3.126	0.1981mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:46:14 PM
2	1.996	0.02803mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:49:13 PM
3	2.085	0.04143mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:52:07 PM
4	2.053	0.03661mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 9:55:03 PM

Mean Area 2.045
Mean Conc. 0.03536mg/L



Sample

Sample Name: 1302521-10C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

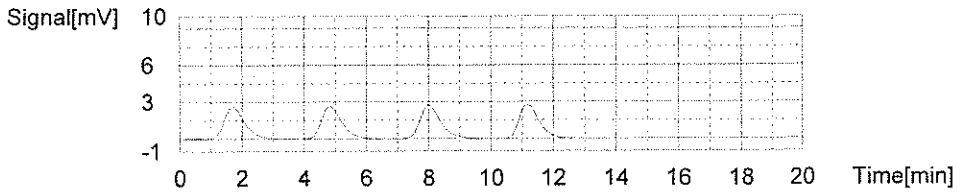
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.572mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	11.72	1.492mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:04:02 PM
2	11.99	1.532mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:07:24 PM
3	12.44	1.600mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:10:47 PM
4	12.33	1.583mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:14:03 PM

Mean Area 12.25
Mean Conc. 1.572mg/L



Sample

Sample Name: 1302521-11C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

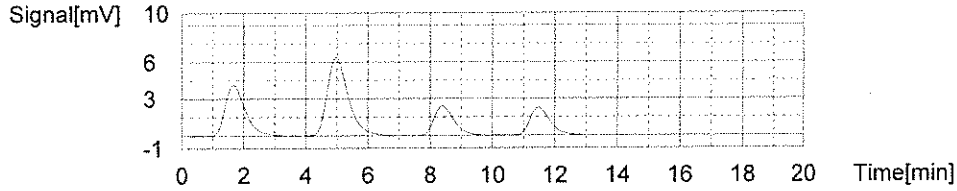
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.672mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	18.52	2.515mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:23:09 PM
2	29.84	4.219mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:26:50 PM
3	10.45	1.300mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:30:05 PM
4	9.785	1.200mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:33:20 PM

Mean Area 12.92
Mean Conc. 1.672mg/L



Sample

Sample Name: 1302521-11CMS
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

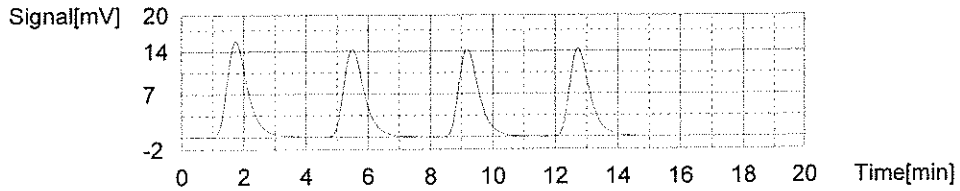
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.618mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	72.34	10.62mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:42:58 PM
2	66.04	9.667mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:46:51 PM
3	65.73	9.620mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:50:36 PM
4	65.38	9.568mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 10:54:25 PM

Mean Area 65.72
Mean Conc. 9.618mg/L



Sample

Sample Name: 1302521-11CMSD
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

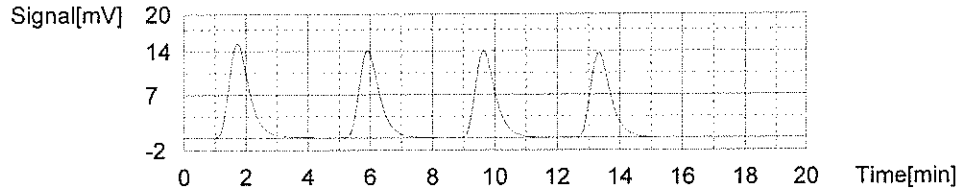
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.342mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	71.03	10.42mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:04:28 PM
2	64.90	9.496mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:08:24 PM
3	64.17	9.386mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:12:16 PM
4	62.56	9.143mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:16:05 PM

Mean Area 63.88
Mean Conc. 9.342mg/L



Sample

Sample Name: 1302521-12C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

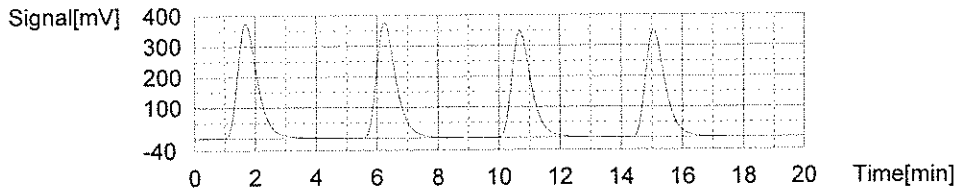
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:251.5mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	1714	257.7mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:26:32 PM
2	1713	257.5mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:31:16 PM
3	1563	235.0mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:36:07 PM
4	1591	239.2mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:40:46 PM

Mean Area 1673
Mean Conc. 251.5mg/L



Sample

Sample Name: 1302521-13C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

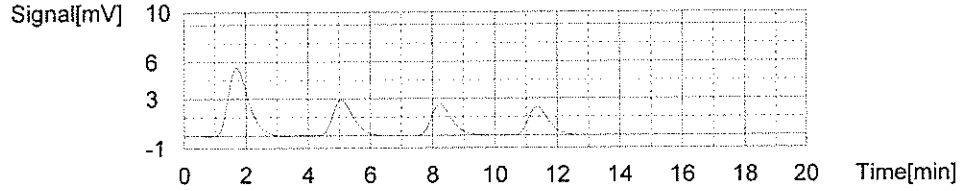
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:1.492mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	25.59	3.579mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:50:00 PM
2	13.31	1.731mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:53:22 PM
3	11.47	1.454mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:56:39 PM
4	10.39	1.291mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/20/2013 11:59:54 PM

Mean Area 11.72
Mean Conc. 1.492mg/L



Sample

Sample Name: 1302521-14C
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

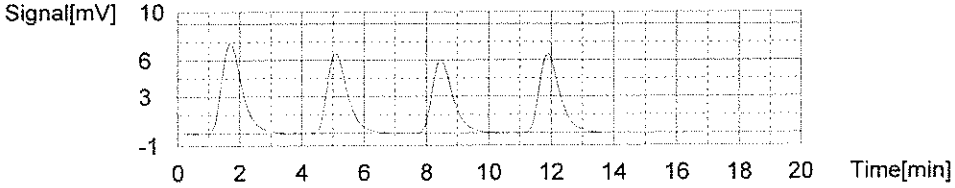
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:4.114mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	33.71	4.801mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:09:11 AM
2	29.76	4.207mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:12:44 AM
3	27.87	3.922mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:16:19 AM
4	29.81	4.214mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:19:56 AM

Mean Area 29.15
Mean Conc. 4.114mg/L



Sample

Sample Name: 1302488-01E
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

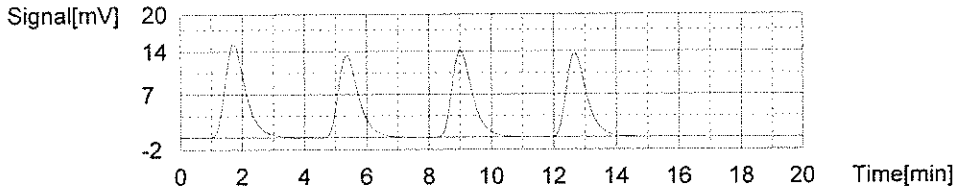
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.301mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	70.80	10.38mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:29:29 AM
2	62.41	9.121mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:33:20 AM
3	65.11	9.527mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:37:10 AM
4	63.30	9.255mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:41:03 AM

Mean Area 63.61
Mean Conc. 9.301mg/L



Sample

Sample Name: 1302521-01CDF40
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

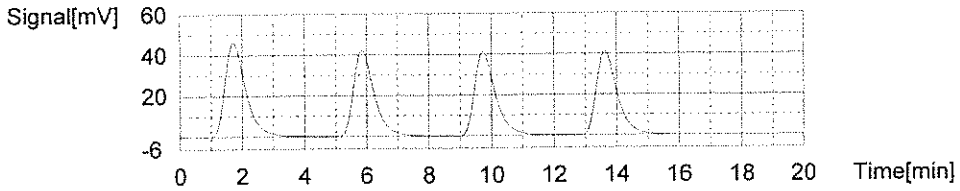
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:29.00mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	216.1	32.25mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:51:04 AM
2	197.7	29.48mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:55:08 AM
3	192.8	28.75mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 12:59:12 AM
4	192.9	28.76mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:03:21 AM

Mean Area 194.5
Mean Conc. 29.00mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

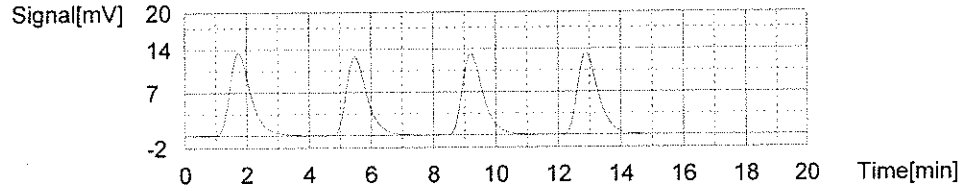
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.147mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	62.91	9.196mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:12:58 AM
2	59.84	8.734mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:16:52 AM
3	62.32	9.107mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:20:44 AM
4	62.53	9.139mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:24:35 AM

Mean Area 62.59
Mean Conc. 9.147mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

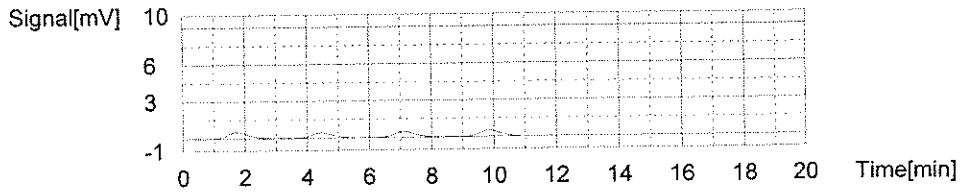
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.04138mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.138	0.04940mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:33:15 AM
2	1.784	-0.00388mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:36:04 AM
3	2.039	0.03450mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:39:02 AM
4	2.077	0.04022mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 1:41:51 AM

Mean Area 2.085
Mean Conc. 0.04138mg/L



Sample

Sample Name: 1302521-09CDF2
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

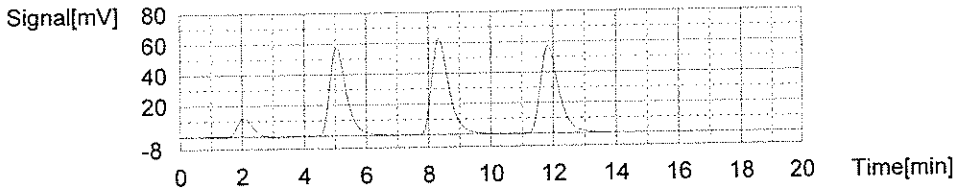
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:34.76mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	46.53	6.731mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 8:53:51 AM
2	215.7	32.19mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 8:57:15 AM
3	245.8	36.72mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:00:51 AM
4	236.7	35.35mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:04:31 AM

Mean Area 232.7
Mean Conc. 34.76mg/L



Sample

Sample Name: 1302521-12CDF10
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

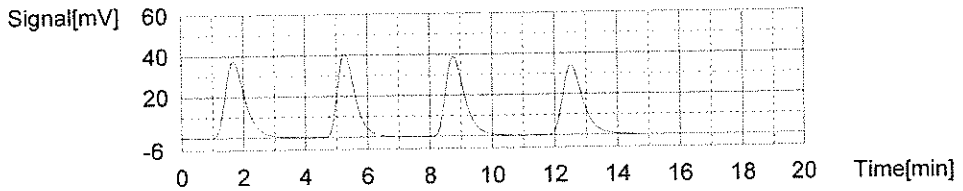
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:25.01mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	170.9	25.45mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:14:10 AM
2	163.9	24.40mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:17:44 AM
3	169.2	25.19mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:21:36 AM
4	155.4	23.12mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 9:25:37 AM

Mean Area 168.0
Mean Conc. 25.01mg/L



Sample

Sample Name: CCV
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

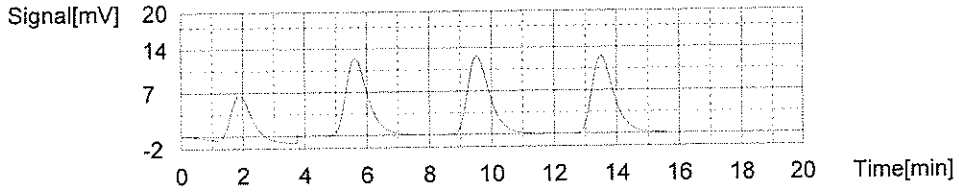
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:9.135mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	35.10	5.010mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:25:10 AM
2	62.18	9.086mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:29:17 AM
3	63.18	9.237mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:33:28 AM
4	62.16	9.083mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:37:36 AM

Mean Area 62.51
Mean Conc. 9.135mg/L



Sample

Sample Name: CCB
Sample ID: Untitled
Origin: 011613CAL.cal
Status Completed
Chk. Result

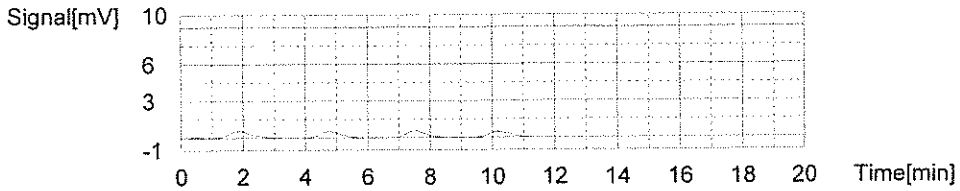
Type	Anal.	Manual Dilution	Result
Unknown	NPOC	1.000	NPOC:0.05146mg/L

1. Det

Anal.: NPOC

No.	Area	Conc.	Inj. Vol.	Aut. Dil.	Ex.	Cal. Curve	Date / Time
1	2.403	0.08929mg/L	50uL	1	E	011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:46:28 AM
2	2.244	0.06536mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:49:28 AM
3	2.184	0.05633mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:52:19 AM
4	2.027	0.03270mg/L	50uL	1		011613CAL.2013_01_16_12_49_08.cal	2/21/2013 11:55:18 AM

Mean Area	2.152
Mean Conc.	0.05146mg/L



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 17, 2013

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Camille Hueni, Superfund Project Manager (6SF-RA)

Site: **JONES ROAD GROUND WATER PLUME**

Case#: **43169**

SDG#: **F6KW0**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 17, 2013

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-11
ESAT Doc. No.:	B030-211-0190
TDF No.:	6-12-657B
ESAT File No.:	O-0997

Attached is the data review summary for Case # 43169
SDG # F6KW0
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

S4VEM Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The EDM contractual compliance screen and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Some results were qualified because of the significant technical problems addressed below.

A. Four LMVOA samples had poor DMC performance. The 1,4-dioxane result for sample F6KW2 was unusable because of a very low recovery for VDMC12.

B. The cis-1,2-dichloroethene result for LMVOA sample F6KW2 was inconsistent with the result from the TVOA analysis.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099
ORGANIC REGIONAL DATA ASSESSMENT

CASE NO. 43169	SITE Jones Road Ground Water Plume
LABORATORY A4	NO. OF SAMPLES 7
CONTRACT# EP-W-10-018	MATRIX Water
SDG# F6KW0	REVIEWER (IF NOT ESB) ESAT
SOW# SOM01.2/MA 2266.1, 2267.1	REVIEWER'S NAME Linda Hoffman
SF# 303DD2NK	COMPLETION DATE January 17, 2013

SAMPLE NO.					
	F6KW0	F6KW4			
	F6KW1	F6KW5			
	F6KW2	F6KW6			
	F6KW3				

DATA ASSESSMENT SUMMARY

	TVOA	LMVOA
1. HOLDING TIMES	O	O
2. GC/MS TUNE/INSTR. PERFORM.	O	O
3. CALIBRATIONS	O	O
4. BLANKS	O	O
5. DMC/SURROGATES	O	M
6. MATRIX SPIKE/DUPLICATE/LCS	N/A	N/A
7. OTHER QC	N/A	N/A
8. INTERNAL STANDARDS	O	O
9. COMPOUND ID/QUANTITATION	O	M
10. PERFORMANCE/COMPLETENESS	O	O
11. OVERALL ASSESSMENT	O	M

O = Data had no problems.
M = Data qualified because of major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: LMVOA Four samples had poor DMC performance. A very low VDMC12 recovery rendered the 1,4-dioxane result for sample F6KW2 unusable. The cis-1,2-dichloroethene results were inconsistent between the LMVOA and TVOA analyses for one sample.

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 43169 **SDG** F6KW0 **SITE** Jones Road Ground Water Plume **LAB** A4

COMMENTS: This SDG consisted of seven water samples for LMVOA analysis following CLP SOW SOM01.2. The samples were subject to Modified Analysis Request 2266.1 (MA 2266.1), which requested mandatory screening and a holding time of 5 days because the samples were not acid preserved. Modified Analysis Request 2267.1 (MA 2267.1) applied if vinyl chloride or tetrachloroethene was not detected in the LMVOA samples then those samples must be analyzed by TVOA analysis to achieve a 0.5 ug/L CRQL. The laboratory only reported vinyl chloride for samples F6KW0, F6KW1, F6KW2, and F6KW6 and tetrachloroethene for sample F6KW6 from the TVOA analyses. For the TVOA analyses, the laboratory received permission not to perform dilution or instrument blank analyses. MS/MSD analyses were not requested. The sampler designated sample F6KW6 as a trip blank.

S4VEM Review was performed for this data package as requested by the TDF. The target compounds of concern with the action levels in parentheses are vinyl chloride (2 ug/L), trans-1,2-dichloroethene (100 ug/L), cis-1,2-dichloroethene (70 ug/L), trichloroethene (5 ug/L), and tetrachloroethene (5 ug/L). Up to four compounds of concern were detected at a concentration above the action level in the field samples. The laboratory diluted up to 100X and reanalyzed samples F6KW3, F6KW4, and F6KW5 because concentrations of cis-1,2-dichloroethene were above the calibrated range. The vinyl chloride results for samples F6KW0, F6KW1, F6KW2, and F6KW6 and the tetrachloroethene result for sample F6KW6 from the TVOA analyses were designated for use.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

TVOA/LMVOA

The vinyl chloride results could be estimated values because of potential degradation and generation reactions.

LMVOA

- The non halogenated aromatic results should be considered minimum values because of the potential for biological activity.

- Because of method blank contamination, the laboratory "B"-flagged methylene chloride results for all samples, which are <CRQL, should be considered undetected and were flagged "U" at the CRQL on the DST.

- The reviewer qualified the 1,4-dioxane result for sample F6KW2 as unusable because associated VDMC12 had a very low recovery (<20%).

ORGANIC QA REVIEW
CONTINUATION PAGE

CASE 43169 **SDG** F6KW0 **SITE** Jones Road Ground Water Plume **LAB** A4

- The reviewer qualified as estimated and biased low the results for the following samples associated with the listed DMCs because these DMCs had recoveries below the QC limits.

Sample	DMCs
F6KW1	VDMC12
F6KW4	VDMC10, VDMC13
F6KW5	VDMC12

- The reviewer qualified the cis-1,2-dichloroethene result for sample F6KW2 as estimated because this result was inconsistent with the cis-1,2-dichloroethene result from the TVOA analysis.

OVERALL ASSESSMENT: Some results were qualified for four LMVOA samples because of problems with DMC performance and/or compound quantitation. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
EDM	EXES Data Manager
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number

SDG: SDG Number

EPASAMP: EPA Sample Number

LABID: Laboratory File/Sample ID

MATRIX: Sample Matrix

ANDATE: Sample Analysis Date

ANTIME: Sample Analysis Time

CASNUM: Compound CAS Number

ANALYTE: Compound Name

CONC: Compound Concentration

VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)

UNITS: Concentration Units

ADJCRQL: Adjusted Contract Required Quantitation Limit Value

SMPDATE: Sampling Date

STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

N Identification is tentative.

J Estimated value.

L Reported concentration is below the CRQL.

M Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.

R Unusable.

^ High biased. Actual concentration may be lower than the concentration reported.

v Low biased. Actual concentration may be higher than the concentration reported.

F+ A false positive exists.

F- A false negative exists.

UJ Estimated quantitation limit.

T Identification is questionable because of absence of other commonly coexisting pesticides.

C Identification of pesticide or Aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).

X Identification of pesticide or Aroclor could not be confirmed by GC/MS when attempted.

***** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

CASE	SDG	EPASAMP	LABID	MATRIX	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCRQL	SMPDATE	STATLOC
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-01-4	Vinyl chloride	5.0	U*	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	156-59-2	cis-1,2-Dichloroethene	25		ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	71-43-2	Benzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	79-01-6	Trichloroethene	7.5		ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	108-88-3	Toluene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	127-18-4	Tetrachloroethene	130		ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/20/2012	17:12:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	IW-03

43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	74-87-3	Chloromethane	1.4	LJ	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-01-4	Vinyl chloride	5.0	U*	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	156-59-2	cis-1,2-Dichloroethene	13		ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	71-43-2	Benzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	79-01-6	Trichloroethene	4.0	LJ	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	108-88-3	Toluene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	127-18-4	Tetrachloroethene	78		ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/20/2012	13:31:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02

43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	74-87-3	Chloromethane	1.3	LJ	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-01-4	Vinyl chloride	5.0	U*	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	156-59-2	cis-1,2-Dichloroethene	16	J	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	71-43-2	Benzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	123-91-1	1,4-Dioxane	100	UR	ug/L	100	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	79-01-6	Trichloroethene	4.3	LJ	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	108-88-3	Toluene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	127-18-4	Tetrachloroethene	82		ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/20/2012	13:57:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	SVE-02 D

43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-01-4	Vinyl chloride	17		ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-35-4	1,1-Dichloroethene	1.2	LJ	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-15-0	Carbon Disulfide	1.1	LJ	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	156-60-5	trans-1,2-Dichloroethene	1.1	LJ	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	156-59-2	cis-1,2-Dichloroethene	1400	*	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	71-43-2	Benzene	3.7	LJ	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	79-01-6	Trichloroethene	11		ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	108-88-3	Toluene	2.5	LJ	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	127-18-4	Tetrachloroethene	16		ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01
43169	F6KW0	F6KW3	0017000-04	W	12/20/2012	17:38:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-01

43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-71-8	Dichlorodifluoromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	74-87-3	Chloromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-01-4	Vinyl chloride	20	*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	74-83-9	Bromomethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-00-3	Chloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-69-4	Trichlorofluoromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-35-4	1,1-Dichloroethene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	67-64-1	Acetone	100	U*	ug/L	100	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-15-0	Carbon Disulfide	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	79-20-9	Methyl acetate	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-09-2	Methylene chloride	23	*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	156-60-5	trans-1,2-Dichloroethene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	1634-04-4	Methyl tert-butyl ether	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-34-3	1,1-Dichloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	156-59-2	cis-1,2-Dichloroethene	1500		ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	78-93-3	2-Butanone	100	U*	ug/L	100	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	74-97-5	Bromochloromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	67-66-3	Chloroform	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	71-55-6	1,1,1-Trichloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	110-82-7	Cyclohexane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	56-23-5	Carbon tetrachloride	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	71-43-2	Benzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	107-06-2	1,2-Dichloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	123-91-1	1,4-Dioxane	1000	U*	ug/L	1000	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	79-01-6	Trichloroethene	9.7	*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	108-87-2	Methylcyclohexane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	78-87-5	1,2-Dichloropropane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-27-4	Bromodichloromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	10061-01-5	cis-1,3-Dichloropropene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	108-10-1	4-Methyl-2-pentanone	100	U*	ug/L	100	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	108-88-3	Toluene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	10061-02-6	trans-1,3-Dichloropropene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	79-00-5	1,1,2-Trichloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	127-18-4	Tetrachloroethene	17	*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	591-78-6	2-Hexanone	100	U*	ug/L	100	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	124-48-1	Dibromochloromethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	106-93-4	1,2-Dibromoethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	108-90-7	Chlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	100-41-4	Ethylbenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	95-47-6	o-Xylene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	179601-23-1	m,p-Xylene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	100-42-5	Styrene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	75-25-2	Bromoform	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	98-82-8	Isopropylbenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	79-34-5	1,1,2,2-Tetrachloroethane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	541-73-1	1,3-Dichlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	106-46-7	1,4-Dichlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	95-50-1	1,2-Dichlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	96-12-8	1,2-Dibromo-3-chloropropane	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	120-82-1	1,2,4-Trichlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01
43169	F6KW0	F6KW3DL	0017000-04RE1	W	12/20/2012	15:54:00	87-61-6	1,2,3-Trichlorobenzene	50	U*	ug/L	50	12/18/2012	OB-01

43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-01-4	Vinyl chloride	27		ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-35-4	1,1-Dichloroethene	2.5	LJ	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	156-60-5	trans-1,2-Dichloroethene	2.1	LJ	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	156-59-2	cis-1,2-Dichloroethene	2700	*	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	71-43-2	Benzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	79-01-6	Trichloroethene	2.5	LJ	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	10061-01-5	cis-1,3-Dichloropropene	5.0	UJv	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	108-88-3	Toluene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	10061-02-6	trans-1,3-Dichloropropene	5.0	UJv	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	79-00-5	1,1,2-Trichloroethane	5.0	UJv	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	127-18-4	Tetrachloroethene	5.7		ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	UJv	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	UJv	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02
43169	F6KW0	F6KW4	0017000-05	W	12/20/2012	18:30:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	OB-02

43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-71-8	Dichlorodifluoromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	74-87-3	Chloromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-01-4	Vinyl chloride	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	74-83-9	Bromomethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-00-3	Chloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-69-4	Trichlorofluoromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-35-4	1,1-Dichloroethene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	67-64-1	Acetone	500	U*	ug/L	500	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-15-0	Carbon Disulfide	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	79-20-9	Methyl acetate	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-09-2	Methylene chloride	100	*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	156-60-5	trans-1,2-Dichloroethene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	1634-04-4	Methyl tert-butyl ether	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-34-3	1,1-Dichloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	156-59-2	cis-1,2-Dichloroethene	3200		ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	78-93-3	2-Butanone	500	U*	ug/L	500	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	74-97-5	Bromochloromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	67-66-3	Chloroform	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	71-55-6	1,1,1-Trichloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	110-82-7	Cyclohexane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	56-23-5	Carbon tetrachloride	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	71-43-2	Benzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	107-06-2	1,2-Dichloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	123-91-1	1,4-Dioxane	5000	U*	ug/L	5000	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	79-01-6	Trichloroethene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	108-87-2	Methylcyclohexane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	78-87-5	1,2-Dichloropropane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-27-4	Bromodichloromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	10061-01-5	cis-1,3-Dichloropropene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	108-10-1	4-Methyl-2-pentanone	500	U*	ug/L	500	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	108-88-3	Toluene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	10061-02-6	trans-1,3-Dichloropropene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	79-00-5	1,1,2-Trichloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	127-18-4	Tetrachloroethene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	591-78-6	2-Hexanone	500	U*	ug/L	500	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	124-48-1	Dibromochloromethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	106-93-4	1,2-Dibromoethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	108-90-7	Chlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	100-41-4	Ethylbenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	95-47-6	o-Xylene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	179601-23-1	m,p-Xylene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	100-42-5	Styrene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	75-25-2	Bromoform	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	98-82-8	Isopropylbenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	79-34-5	1,1,2,2-Tetrachloroethane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	541-73-1	1,3-Dichlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	106-46-7	1,4-Dichlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	95-50-1	1,2-Dichlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	96-12-8	1,2-Dibromo-3-chloropropane	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	120-82-1	1,2,4-Trichlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02
43169	F6KW0	F6KW4DL	0017000-05RE1	W	12/20/2012	16:46:00	87-61-6	1,2,3-Trichlorobenzene	250	U*	ug/L	250	12/18/2012	OB-02

43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-01-4	Vinyl chloride	93		ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-35-4	1,1-Dichloroethene	6.3		ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	156-60-5	trans-1,2-Dichloroethene	8.9		ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	156-59-2	cis-1,2-Dichloroethene	5300	*	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	71-43-2	Benzene	3.3	LJ	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	123-91-1	1,4-Dioxane	100	UJv	ug/L	100	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	79-01-6	Trichloroethene	17		ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	108-88-3	Toluene	1.2	LJ	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	127-18-4	Tetrachloroethene	75		ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01
43169	F6KW0	F6KW5	0017000-06	W	12/21/2012	11:04:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	MW-01

43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-71-8	Dichlorodifluoromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	74-87-3	Chloromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-01-4	Vinyl chloride	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	74-83-9	Bromomethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-00-3	Chloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-69-4	Trichlorofluoromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-35-4	1,1-Dichloroethene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	67-64-1	Acetone	1000	U*	ug/L	1000	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-15-0	Carbon Disulfide	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	79-20-9	Methyl acetate	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-09-2	Methylene chloride	300	*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	156-60-5	trans-1,2-Dichloroethene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	1634-04-4	Methyl tert-butyl ether	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-34-3	1,1-Dichloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	156-59-2	cis-1,2-Dichloroethene	7800		ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	78-93-3	2-Butanone	1000	U*	ug/L	1000	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	74-97-5	Bromochloromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	67-66-3	Chloroform	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	71-55-6	1,1,1-Trichloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	110-82-7	Cyclohexane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	56-23-5	Carbon tetrachloride	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	71-43-2	Benzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	107-06-2	1,2-Dichloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	123-91-1	1,4-Dioxane	10000	U*	ug/L	10000	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	79-01-6	Trichloroethene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	108-87-2	Methylcyclohexane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	78-87-5	1,2-Dichloropropane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-27-4	Bromodichloromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	10061-01-5	cis-1,3-Dichloropropene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	108-10-1	4-Methyl-2-pentanone	1000	U*	ug/L	1000	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	108-88-3	Toluene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	10061-02-6	trans-1,3-Dichloropropene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	79-00-5	1,1,2-Trichloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	127-18-4	Tetrachloroethene	97	*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	591-78-6	2-Hexanone	1000	U*	ug/L	1000	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	124-48-1	Dibromochloromethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	106-93-4	1,2-Dibromoethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	108-90-7	Chlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	100-41-4	Ethylbenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	95-47-6	o-Xylene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	179601-23-1	m,p-Xylene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	100-42-5	Styrene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	75-25-2	Bromoform	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	98-82-8	Isopropylbenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	79-34-5	1,1,2,2-Tetrachloroethane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	541-73-1	1,3-Dichlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	106-46-7	1,4-Dichlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	95-50-1	1,2-Dichlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	96-12-8	1,2-Dibromo-3-chloropropane	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	120-82-1	1,2,4-Trichlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01
43169	F6KW0	F6KW5DL	0017000-06RE1	W	12/20/2012	16:20:00	87-61-6	1,2,3-Trichlorobenzene	500	U*	ug/L	500	12/18/2012	MW-01

43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-71-8	Dichlorodifluoromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	74-87-3	Chloromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-01-4	Vinyl chloride	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	74-83-9	Bromomethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-00-3	Chloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-69-4	Trichlorofluoromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-35-4	1,1-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	67-64-1	Acetone	10	U	ug/L	10	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-15-0	Carbon Disulfide	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	79-20-9	Methyl acetate	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-09-2	Methylene chloride	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	156-60-5	trans-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	1634-04-4	Methyl tert-butyl ether	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-34-3	1,1-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	156-59-2	cis-1,2-Dichloroethene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	78-93-3	2-Butanone	10	U	ug/L	10	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	74-97-5	Bromochloromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	67-66-3	Chloroform	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	71-55-6	1,1,1-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	110-82-7	Cyclohexane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	56-23-5	Carbon tetrachloride	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	71-43-2	Benzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	107-06-2	1,2-Dichloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	123-91-1	1,4-Dioxane	100	U	ug/L	100	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	79-01-6	Trichloroethene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	108-87-2	Methylcyclohexane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	78-87-5	1,2-Dichloropropane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-27-4	Bromodichloromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	10061-01-5	cis-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	108-10-1	4-Methyl-2-pentanone	10	U	ug/L	10	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	108-88-3	Toluene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	10061-02-6	trans-1,3-Dichloropropene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	79-00-5	1,1,2-Trichloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	127-18-4	Tetrachloroethene	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	591-78-6	2-Hexanone	10	U	ug/L	10	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	124-48-1	Dibromochloromethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	106-93-4	1,2-Dibromoethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	108-90-7	Chlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	100-41-4	Ethylbenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	95-47-6	o-Xylene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	179601-23-1	m,p-Xylene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	100-42-5	Styrene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	75-25-2	Bromoform	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	98-82-8	Isopropylbenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	541-73-1	1,3-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	106-46-7	1,4-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	95-50-1	1,2-Dichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	96-12-8	1,2-Dibromo-3-chloropropane	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	120-82-1	1,2,4-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/20/2012	18:04:00	87-61-6	1,2,3-Trichlorobenzene	5.0	U	ug/L	5.0	12/18/2012	Trip Blank 1

43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-71-8	Dichlorodifluoromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	74-87-3	Chloromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	74-83-9	Bromomethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-00-3	Chloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-69-4	Trichlorofluoromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-35-4	1,1-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	67-64-1	Acetone	5.0	U*	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-15-0	Carbon Disulfide	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	79-20-9	Methyl acetate	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-09-2	Methylene chloride	0.24	*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	156-60-5	trans-1,2-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	1634-04-4	Methyl tert-butyl ether	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-34-3	1,1-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	156-59-2	cis-1,2-Dichloroethene	26	*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	78-93-3	2-Butanone	5.0	U*	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	74-97-5	Bromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	71-55-6	1,1,1-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	110-82-7	Cyclohexane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	79-01-6	Trichloroethene	7.8	*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	108-87-2	Methylcyclohexane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	108-10-1	4-Methyl-2-pentanone	5.0	U*	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	108-88-3	Toluene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	127-18-4	Tetrachloroethene	120	*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	124-48-1	Dibromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	108-90-7	Chlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	100-41-4	Ethylbenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	95-47-6	o-Xylene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	179601-23-1	m,p-Xylene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	100-42-5	Styrene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	75-25-2	Bromoform	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	98-82-8	Isopropylbenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	541-73-1	1,3-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	95-50-1	1,2-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03
43169	F6KW0	F6KW0	0017000-01	W	12/19/2012	13:45:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	IW-03

43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-71-8	Dichlorodifluoromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	74-87-3	Chloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	74-83-9	Bromomethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-00-3	Chloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-69-4	Trichlorofluoromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-35-4	1,1-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	67-64-1	Acetone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-15-0	Carbon Disulfide	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	79-20-9	Methyl acetate	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-09-2	Methylene chloride	0.61	*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	156-60-5	trans-1,2-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	1634-04-4	Methyl tert-butyl ether	0.25	*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-34-3	1,1-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	156-59-2	cis-1,2-Dichloroethene	9.0	*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	78-93-3	2-Butanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	74-97-5	Bromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	71-55-6	1,1,1-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	110-82-7	Cyclohexane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	79-01-6	Trichloroethene	2.9	*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	108-87-2	Methylcyclohexane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	108-10-1	4-Methyl-2-pentanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	108-88-3	Toluene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	127-18-4	Tetrachloroethene	59	*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	124-48-1	Dibromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	108-90-7	Chlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	100-41-4	Ethylbenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	95-47-6	o-Xylene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	179601-23-1	m,p-Xylene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	100-42-5	Styrene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	75-25-2	Bromoform	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	98-82-8	Isopropylbenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	541-73-1	1,3-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	95-50-1	1,2-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02
43169	F6KW0	F6KW1	0017000-02	W	12/19/2012	14:11:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02

43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-71-8	Dichlorodifluoromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	74-87-3	Chloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	74-83-9	Bromomethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-00-3	Chloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-69-4	Trichlorofluoromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-35-4	1,1-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	67-64-1	Acetone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-15-0	Carbon Disulfide	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	79-20-9	Methyl acetate	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-09-2	Methylene chloride	0.41	*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	156-60-5	trans-1,2-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	1634-04-4	Methyl tert-butyl ether	0.24	*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-34-3	1,1-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	156-59-2	cis-1,2-Dichloroethene	10	*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	78-93-3	2-Butanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	74-97-5	Bromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	71-55-6	1,1,1-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	110-82-7	Cyclohexane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	79-01-6	Trichloroethene	3.4	*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	108-87-2	Methylcyclohexane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	108-10-1	4-Methyl-2-pentanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	108-88-3	Toluene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	127-18-4	Tetrachloroethene	67	*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	124-48-1	Dibromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	108-90-7	Chlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	100-41-4	Ethylbenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	95-47-6	o-Xylene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	179601-23-1	m,p-Xylene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	100-42-5	Styrene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	75-25-2	Bromoform	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	98-82-8	Isopropylbenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	541-73-1	1,3-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	95-50-1	1,2-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D
43169	F6KW0	F6KW2	0017000-03	W	12/19/2012	14:37:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	SVE-02 D

43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-71-8	Dichlorodifluoromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	74-87-3	Chloromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-01-4	Vinyl chloride	0.50	U	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	74-83-9	Bromomethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-00-3	Chloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-69-4	Trichlorofluoromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-35-4	1,1-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	67-64-1	Acetone	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-15-0	Carbon Disulfide	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	79-20-9	Methyl acetate	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-09-2	Methylene chloride	0.45	*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	156-60-5	trans-1,2-Dichloroethene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	1634-04-4	Methyl tert-butyl ether	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-34-3	1,1-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	156-59-2	cis-1,2-Dichloroethene	0.24	*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	78-93-3	2-Butanone	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	74-97-5	Bromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	67-66-3	Chloroform	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	71-55-6	1,1,1-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	110-82-7	Cyclohexane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	56-23-5	Carbon tetrachloride	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	71-43-2	Benzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	107-06-2	1,2-Dichloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	79-01-6	Trichloroethene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	108-87-2	Methylcyclohexane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	78-87-5	1,2-Dichloropropane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-27-4	Bromodichloromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	10061-01-5	cis-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	108-10-1	4-Methyl-2-pentanone	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	108-88-3	Toluene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	10061-02-6	trans-1,3-Dichloropropene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	79-00-5	1,1,2-Trichloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	127-18-4	Tetrachloroethene	0.50	U	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	591-78-6	2-Hexanone	5.0	U*	ug/L	5.0	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	124-48-1	Dibromochloromethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	106-93-4	1,2-Dibromoethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	108-90-7	Chlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	100-41-4	Ethylbenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	95-47-6	o-Xylene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	179601-23-1	m,p-Xylene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	100-42-5	Styrene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	75-25-2	Bromoform	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	98-82-8	Isopropylbenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	541-73-1	1,3-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	106-46-7	1,4-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	95-50-1	1,2-Dichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1
43169	F6KW0	F6KW6	0017000-07	W	12/19/2012	15:29:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U*	ug/L	0.50	12/18/2012	Trip Blank 1

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 43169 SDG No. F6KW0 SDG Nos. To Follow Mod. Ref No. 2266.1/2267.1 Date Rec 12/26/12

EPA Lab ID: A4

Lab Location: The Woodlands, TX

Region: 6 Audit No.: 43169/F6KW0

Re_Submitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Item	Description
11.	There was no airbill associated with this SDG because the sampler hand delivered the samples to the laboratory.

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?		X	
12. Signed?			X
13. Dated?			X
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?		X	
18a. If "NO", does the copy indicate where original documents are located?	X		

Audited by: Linda Hoffman / ESAT Data Reviewer Date 01/11/13

Audited by: ____ Date ____

Signature Printed Name/Title

DC-2__

USEPA CLP Organics COC (REGION COPY)

DateShipped: 12/19/2012
CarrierName: EA Engineering
AirbillNo: NA

CHAIN OF CUSTODY RECORD

Jones Road Ground Water Plume/TX
Case #: 43169

No: 6-121912-084403-0009

Lab: A4 Scientific, Inc - A4
Lab Contact: Laxmi Teerupalli
Lab Phone: 281-292-5277

Organic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Inorganic Sample #	Sample Type
F6KW0	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466900 (Ice to 4°C), 6-466901 (Ice to 4°C), 6-466902 (Ice to 4°C), 6-466903 (Ice to 4°C), 6-466904 (Ice to 4°C) (5)	IW-03	12/18/2012 10:42	MF6KW0	Field Sample
F6KW1	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466907 (Ice to 4°C), 6-466908 (Ice to 4°C), 6-466909 (Ice to 4°C), 6-466910 (Ice to 4°C), 6-466911 (Ice to 4°C) (5)	SVE-02	12/18/2012 12:20	MF6KW1	Field Sample
F6KW2	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466913 (Ice to 4°C), 6-466914 (Ice to 4°C), 6-466915 (Ice to 4°C), 6-466916 (Ice to 4°C), 6-466917 (Ice to 4°C) (5)	SVE-02 D	12/18/2012 12:20	MF6KW2	Field Duplicate
F6KW3	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466919 (Ice to 4°C), 6-466920 (Ice to 4°C), 6-466921 (Ice to 4°C), 6-466922 (Ice to 4°C), 6-466923 (Ice to 4°C) (5)	OB-01	12/18/2012 14:59	MF6KW3	Field Sample
F6KW4	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466925 (Ice to 4°C), 6-466926 (Ice to 4°C), 6-466927 (Ice to 4°C), 6-466928 (Ice to 4°C), 6-466929 (Ice to 4°C) (5)	OB-02	12/18/2012 17:20	MF6KW4	Field Sample
F6KW5	Ground Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466931 (Ice to 4°C), 6-466932 (Ice to 4°C), 6-466933 (Ice to 4°C), 6-466934 (Ice to 4°C), 6-466935 (Ice to 4°C) (5)	MW-01	12/18/2012 16:08	MF6KW5	Field Sample
F6KW6	Water/ Justin Suchecki	Grab	TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5), TVOA/VOA(5)	6-466937 (Ice to 4°C), 6-466938 (Ice to 4°C), 6-466939 (Ice to 4°C), 6-466940 (Ice to 4°C), 6-466941 (Ice to 4°C) (5)	Trip Blank 1	12/18/2012 07:00		Trip Blank

Page 23 of 23

Special Instructions: Samples are not preserved.	**Shipment for Case Complete? Y**
	Samples Transferred From Chain of Custody #
Analysis Key: TVOA/VOA=TVOA/VOA by MA 2266.1 and 2267.1	

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	12/19/12									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

January 23, 2013

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

Raymond Flores

FROM: Raymond Flores, Alternate ESAT Regional Project Officer
Environmental Services Branch (6MD-HL)

TO: Camille Hueni, Superfund Project Manager (6SF-RA)

Site: **JONES ROAD GROUND WATER PLUME**

Case#: **43169**

SDG#: **MF6KW0**

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

The data package is acceptable for regional use. Problems, if any, are listed in the report narrative. If you have any questions regarding the data review report, please contact me at (281) 983-2139.

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: January 22, 2013

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Sonya Meekins, Data Reviewer, ESAT

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT DGJ

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	030
Task/Sub-Task:	2-12
ESAT Doc. No.:	B030-212-0132
TDF No.:	6-12-667B
ESAT File No.:	I-0602

Attached is the data review summary for Case # 43169
SDG # MF6KW0
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

S4VEM Review was performed for this data package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The EDM contractual compliance screen and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

All results were acceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
HOUSTON BRANCH
10625 FALLSTONE ROAD
HOUSTON, TEXAS 77099

INORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	43169	SITE	Jones Road Ground Water Plume
LABORATORY	CHEM	NO. OF SAMPLES	6
CONTRACT#	EP-W-09-038	MATRIX	Water
SDG#	MF6KW0	REVIEWER (IF NOT ESB)	ESAT
SOW#	ISM01.3	REVIEWER'S NAME	Sonya Meekins
SF#	303DD2NK	COMPLETION DATE	January 22, 2013

SAMPLE NO.					
	MF6KW0	MF6KW4			
	MF6KW1	MF6KW5			
	MF6KW2				
	MF6KW3				

DATA ASSESSMENT SUMMARY

	ICP
1. HOLDING TIMES	O
2. CALIBRATIONS	O
3. BLANKS	O
4. MATRIX SPIKES	O
5. DUPLICATE ANALYSIS	O
6. ICP QC	O
7. LCS	O
8. SAMPLE VERIFICATION	O
9. OTHER QC	N/A
10. OVERALL ASSESSMENT	O

O = Data had no problems.
M = Data qualified due to major or minor problems.
Z = Data unacceptable.
NA = Not applicable.

ACTION ITEMS:

AREAS OF CONCERN:

COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW

CASE 43169 **SDG** MF6KW0 **SITE** Jones Road Ground Water Plume **LAB** CHEM

COMMENTS: This SDG consisted of six water samples for dissolved metals (by ICP-AES and ICP-MS) analysis following CLP SOW ISM01.3. The sampler designated sample MF6KW0 for laboratory QC analyses.

S4VEM Review was performed on this package as requested by the TDF. The target analytes of concern with the corresponding MCLs in parentheses are antimony (6.0 ug/L), arsenic (10.0 ug/L), barium (2,000 ug/L), beryllium (4.0 ug/L), cadmium (5.0 ug/L), chromium (100 ug/L), copper (1,300 ug/L), lead (15 ug/L), selenium (50 ug/L), and thallium (2.0 ug/L). The laboratory reported concentrations above the MCL for arsenic in samples MF6KW3, MF6KW4, and MF6KW5.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

> Because of laboratory blank readings, all sample results <CRQLs for the following analytes should be considered undetected and were flagged "U" at the CRQLs on the DST: aluminum, antimony, arsenic, beryllium, cobalt, copper, iron, lead, manganese, silver, and thallium.

OVERALL ASSESSMENT: All results were acceptable. ESAT's final data qualifiers in the DST indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the CSF, and the audit results were reported on the Evidence Inventory Checklist. The DST included in this report is the final version.

INORGANIC ACRONYMS

CCB	Continuing Calibration Blank
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CN	Cyanide
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DST	Data Summary Table
EDM	EXES Data Manager
HG	Mercury
ICB	Initial Calibration Blank
ICP	Inductively Coupled Plasma
ICP-AES	Inductively Coupled Plasma-Atomic Emission Spectroscopy
ICP-MS	Inductively Coupled Plasma-Mass Spectrometry
ICS	Interference Check Sample
ICV	Initial Calibration Verification
IS	Internal Standard
LCS	Laboratory Control Sample
MDL	Method Detection Limit
NFG	National Functional Guidelines
PE	Performance Evaluation
%D	Percent Difference
%R	Percent Recovery
%RI	Percent Relative Intensity
%RSD	Percent Relative Standard Deviation
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RPD	Relative Percent Difference
RSCC	Regional Sample Control Center
S3VEM	Stage 3 Validation Electronic and Manual (previously called Modified CADRE Review)
S4VEM	Stage 4 Validation Electronic and Manual (previously called Standard Review)
SDG	Sample Delivery Group
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
TAL	Target Analyte List

HEADER DEFINITIONS FOR INORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
QCCOD: Sample QC Code
SMPQUAL: Sample Qualifier
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Inorganic Data Validation Qualifier (see Inorganic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
PRPDATE: Sample Preparation Date
LRDATE: Laboratory Receipt Date
LEVEL: Sample Level
PERSOLD: Sample Percent Solids
SMPWTVL: Sample Weight (Soil Samples)/Initial Sample Volume (Water Samples)
FINLVOL: Final Sample Volume
METHOD: Method of Analysis
STATLOC: Station Location

Disclaimer: **ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, ADJCRQL, VALDQAL, and PERSOLD. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.**

INORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

U Not detected at reported quantitation limit.

L Reported concentration is between the MDL and the CRQL.

J Result is estimated because of outlying quality control parameters such as matrix spike, serial dilution, etc., or the result is below the CRQL.

R Result is unusable.

F A possibility of a false negative exists.

UC Reported concentration should be used as a raised quantitation limit because of blank effects and/or laboratory or field contamination.

+ High biased. Actual concentration may be lower than the concentration reported.

- Low biased. Actual concentration may be higher than the concentration reported.

W The result should be used with caution. The result was reported on a dry weight basis although the sample did not conform to the EPA Office of Water definition of a soil sample because of its high water content (>70% moisture).

CASE	SDG	EPASAMP	LABID	MATRIX	QCCODE	ANDATE	ANTIME	CASNUM	ANALYTE	CONC	VALDQAL	UNITS	ADJCI	SMPDATE	PRPDATE	LRDATE	LEVEL	PERSI	SMPW	FINVC	METH	STATLOC
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7429905	Aluminum	200	U	ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440382	Arsenic	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440393	Barium	530		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7440702	Calcium	127000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440473	Chromium	2.4		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440484	Cobalt	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440508	Copper	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7439896	Iron	100	U	ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7439921	Lead	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7439954	Magnesium	11200		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7439965	Manganese	15.0	U	ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440020	Nickel	5.7		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7782492	Selenium	2.1	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/24/2012	17:12:57	7440235	Sodium	58800		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440622	Vanadium	0.86	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW0	D5257-01	W	Field_Sample	12/21/2012	21:45:32	7440666	Zinc	5.1		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	IW-03
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7429905	Aluminum	200	U	ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440382	Arsenic	1.1		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440393	Barium	600		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7440702	Calcium	140000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440473	Chromium	1.9	LJ	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440484	Cobalt	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440508	Copper	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7439896	Iron	100	U	ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7439921	Lead	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7439954	Magnesium	12200		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7439965	Manganese	15.0	U	ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440020	Nickel	5.7		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7782492	Selenium	2.1	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:00:06	7440235	Sodium	66900		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440622	Vanadium	1.6	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW1	D5257-04	W	Field_Sample	12/21/2012	23:01:29	7440666	Zinc	7.2		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7429905	Aluminum	200	U	ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440382	Arsenic	1.0		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440393	Barium	594		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7440702	Calcium	144000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440473	Chromium	2.3		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440484	Cobalt	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440508	Copper	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7439896	Iron	100	U	ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7439921	Lead	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7439954	Magnesium	12400		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7439965	Manganese	15.0	U	ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440020	Nickel	6.1		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7782492	Selenium	2.0	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D

43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:04:12	7440235	Sodium	68800		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440622	Vanadium	1.7	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW2	D5257-05	W	Field_Sample	12/21/2012	23:16:38	7440666	Zinc	5.3		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	SVE-02 D
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7429905	Aluminum	262		ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440382	Arsenic	301		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440393	Barium	927		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7440702	Calcium	215000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440473	Chromium	7.0		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440484	Cobalt	8.3		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440508	Copper	3.3		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7439896	Iron	13000		ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7439921	Lead	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7439954	Magnesium	29700		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7439965	Manganese	1380		ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440020	Nickel	25.0		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7782492	Selenium	5.0	U	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:08:20	7440235	Sodium	83000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440622	Vanadium	1.2	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW3	D5257-06	W	Field_Sample	12/21/2012	23:47:00	7440666	Zinc	66.5		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-01
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7429905	Aluminum	200	U	ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440382	Arsenic	25.5		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440393	Barium	915		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7440702	Calcium	152000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440473	Chromium	7.3		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440484	Cobalt	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440508	Copper	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7439896	Iron	6840		ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7439921	Lead	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7439954	Magnesium	13900		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7439965	Manganese	487		ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440020	Nickel	9.2		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7782492	Selenium	5.0	U	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/21/2012	23:12:25	7440235	Sodium	61500		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440622	Vanadium	0.19	LJ	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW4	D5257-07	W	Field_Sample	12/22/2012	00:02:11	7440666	Zinc	5.2		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	OB-02
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7429905	Aluminum	2320		ug/L	200	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440360	Antimony	2.0	U	ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440382	Arsenic	51.8		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440393	Barium	748		ug/L	10.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440417	Beryllium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440439	Cadmium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7440702	Calcium	168000		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440473	Chromium	6.6		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440484	Cobalt	2.6		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440508	Copper	30.8		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7439896	Iron	12300		ug/L	100	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7439921	Lead	3.7		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7439954	Magnesium	15500		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01

43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7439965	Manganese	794		ug/L	15.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440020	Nickel	13.7		ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7440097	Potassium	5000	U	ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7782492	Selenium	5.0	U	ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440224	Silver	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/21/2012	23:16:33	7440235	Sodium	56300		ug/L	5000	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	P	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440280	Thallium	1.0	U	ug/L	1.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440622	Vanadium	5.4		ug/L	5.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01
43169	MF6KW0	MF6KW5	D5257-08	W	Field_Sample	12/22/2012	00:17:18	7440666	Zinc	93.1		ug/L	2.0	12/18/2012	12/21/2012	12/20/2012	Low	0.0	50	50	MS	MW-01

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 43169 SDG No. MF6KW0 SDG Nos. To Follow Mod. Ref. No. Date Rec 01/10/13

EPA Lab ID: CHEM

Lab location: Mountainside, NJ

Region: 6 Audit No.: 43169/MF6KW0

Resubmitted CSF? Yes ____ No X

Box No(s): 1

COMMENTS:

Over for additional comments.

ORIGINALS	YES	NO	N/A
CUSTODY SEALS			
1. Present on package?	X		
2. Intact upon receipt?	X		
FORM DC-2			
3. Numbering scheme accurate?	X		
4. Are enclosed documents listed?	X		
5. Are listed documents enclosed?	X		
FORM DC-1			
6. Present?	X		
7. Complete?	X		
8. Accurate?	X		
TRAFFIC REPORT/CHAIN-OF-CUSTODY RECORD(s)			
9. Signed?	X		
10. Dated?	X		
AIRBILLS/AIRBILL STICKER			
11. Present?	X		
12. Signed?	X		
13. Dated?	X		
SAMPLE TAGS			
14. Does DC-1 list tags as being included?	X		
15. Present?	X		
OTHER DOCUMENTS			
16. Complete?	X		
17. Legible?	X		
18. Original?	X		
18a. If "NO", does the copy indicate where original documents are located?			X

Audited [signature] Sonya Meekins/ESAT Data Reviewer Date 01/17/13

Audited ____ ____ Date ____

Signature Printed Name/Title

DC-2

USEPA CLP Inorganics COC (REGION COPY)
DateShipped: 12/19/2012
CarrierName: FedEx
AirbillNo: 7943 4537 7966

CHAIN OF CUSTODY RECORD
Jones Road Ground Water Plume/TX
Case #: 43169

No: 6-121912-082547-0008
Lab: Chemtech Consulting Group - CHEM
Lab Contact: Snehal Mehta
Lab Phone: 908-789-8900

Inorganic Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	Organic Sample #	Sample Type
MF6KW0	Ground Water/ Justin Suchecki	Grab	DM(21), DM(21)	6-466905 (HNO3 (field filtered) pH<2 Ice), 6-466906 (HNO3 (field filtered) pH<2 Ice) (2)	IW-03	12/18/2012 10:42	F6KW0	Field Sample
MF6KW1	Ground Water/ Justin Suchecki	Grab	DM(21)	6-466912 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02	12/18/2012 12:20	F6KW1	Field Sample
MF6KW2	Ground Water/ Justin Suchecki	Grab	DM(21)	6-466918 (HNO3 (field filtered) pH<2 Ice) (1)	SVE-02 D	12/18/2012 12:20	F6KW2	Field Duplicate
MF6KW3	Ground Water/ Justin Suchecki	Grab	DM(21)	6-466924 (HNO3 (field filtered) pH<2 Ice) (1)	OB-01	12/18/2012 14:59	F6KW3	Field Sample
MF6KW4	Ground Water/ Justin Suchecki	Grab	DM(21)	6-466930 (HNO3 (field filtered) pH<2 Ice) (1)	OB-02	12/18/2012 17:20	F6KW4	Field Sample
MF6KW5	Ground Water/ Justin Suchecki	Grab	DM(21)	6-466936 (HNO3 (field filtered) pH<2 Ice) (1)	MW-01	12/18/2012 16:08	F6KW5	Field Sample

Sample(s) to be used for Lab QC: MF6KW0 - Special Instructions: ICP-AES for: Aluminum, Calcium, Iron, Magnesium, Manganese, Potassium, Sodium. ICP-MS for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

Shipment for Case Complete? Y

Samples Transferred From Chain of Custody #

Analysis Key: DM=Dissolved Metals ISM01.3/ICP-AES+MS

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	[signature]	12/19/12									

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Laboratory

Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
Phone: (281)983-2100 Fax: (281)983-2248

Final Analytical Report

Site Name ----------Jones Road Groundwater Plume

Sample Collection Date(s)-- 01/23/13 - 01/24/13

Contact---------- Camille Hueni (6SF-AP)

Report Date---------- 03/26/13

Project #---------- 13SF045

Work Order(s)---------- 1301013
1301015

Analyses included in this report:

Air TO-15(SIM/Scan) dual units

Report Narrative

The high recovery of toluene-d8 in the blank (BLK1) does not affect any of the results. There were no target compounds detected in this blank except for methylene chloride which resulted in the "B" flag being applied to some of the samples in which methylene chloride was also detected.

The cause for the slightly high recovery of chloroethane in the blanks spike is unknown and may simply be random. None of the samples reported this result so the excursion is not significant.

The excursion for the percent difference for cis-1,2-dichloroethene in sample 1301015-01 and its lab duplicate (DUP5) may be due to carryover. The source sample was the lower value and was used for reporting.

Standard procedures for quality assurance and quality control were followed in the analysis and reporting of the sample results. The results apply only to the samples tested. This final report should only be reproduced in full.

Reporting limits are adjusted for sample size and matrix interference.

Report Approvals:

Richard McMillin Region 6 Laboratory Manager	David Neleigh Region 6 Laboratory Branch Chief

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 6 Environmental Services Branch Laboratory

10625 Fallstone Road
Houston, Texas 77099

Sample Receipt and Disposal

Site Name: Jones Road Groundwater Plume Project Number: 13SF045

Data Management Coordinator: Christy Warren

/ /

Data Management Coordinator Signature Date

Date Transmitted: _____/_____/_____

Please have the U.S. EPA Project Manager/Officer call the Data Management Coordinator at 3-2137 for any comments or questions.

Please sign and date this form below and return it with any comments to:

Christy Warren
Data Management Coordinator
Region 6 Laboratory
6MD-HS

_____/_____/_____
Received by and Date

Comments:

The laboratory routinely disposes of samples 90 days after all analyses have been completed. If you have a need to hold these samples in custody longer than 90 days, please sign below.

_____ _____
Signature Date

Please provide a reason for holding:

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
ASBKG-01232013 (K0283)	1301013-01	air	1/23/13 13:05	01/24/13 12:15
ASI-101-01232013 (A3430)	1301013-02	air	1/23/13 13:50	01/24/13 12:15
ASI-101-DUP-01232013 (J0120)	1301013-03	air	1/23/13 13:50	01/24/13 12:15
ASI-102-01232013 (B3442)	1301013-04	air	1/23/13 18:42	01/24/13 12:15
ASS-102-01232013 (M0189)	1301013-05	air	1/23/13 14:22	01/24/13 12:15
ASTB-01232013 (J0188)	1301013-06	air	1/23/13 13:11	01/24/13 12:15
ASS-101-01242013 (C3445)	1301015-01	air	1/24/13 15:15	01/25/13 10:00

Environmental Protection Agency
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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-01 **Station ID: ASBKG-01232013 (K0283)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 12.6 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.92		99.0	70-130	02/10/13	02/13/13
1,2-Dichloroethane-d4	8.56		107	70-130	"	"
Toluene-d8	7.33		91.6	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		0.25	0.54	1.0	02/10/13	02/13/13
Benzene (71-43-2)	**0.77**	**2.46**		0.05	0.16	"	"	"
1,3-Butadiene (106-99-0)	U	U		0.25	0.55	"	"	"
Bromomethane (74-83-9)	U	U		0.25	0.97	"	"	"
Carbon tetrachloride (56-23-5)	U	U		0.25	1.58	"	"	"
Chlorobenzene (108-90-7)	U	U		0.25	1.15	"	"	"
Chloroethane (75-00-3)	U	U		0.25	0.66	"	"	"
Chloroform (67-66-3)	U	U		0.25	1.22	"	"	"
Chloromethane (74-87-3)	**0.62**	**1.28**		0.25	0.52	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		0.25	1.93	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		0.25	1.51	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		0.25	1.51	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		0.25	1.51	"	"	"
Dichlorodifluoromethane (75-71-8)	**0.49**	**2.43**		0.25	1.24	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		0.25	1.01	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		0.25	1.01	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		0.25	0.99	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U	U		0.05	0.20	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		0.25	1.16	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		0.25	1.14	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		0.25	1.14	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		0.25	1.75	"	"	"
Ethylbenzene (100-41-4)	U	U		0.25	1.09	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		0.25	2.67	"	"	"
Methylene chloride (75-09-2)	**0.38**	**1.32**	**B**	0.25	0.87	"	"	"
Styrene (100-42-5)	U	U		0.25	1.07	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		0.25	1.72	"	"	"
Tetrachloroethene (127-18-4)	**0.05**	**0.34**		0.05	0.34	"	"	"

Environmental Protection Agency
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10625 Fallstone Road, Houston, TX 77099
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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-01 **Station ID: ASBKG-01232013 (K0283)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 12.6 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	**1.12**	**4.23**		0.25	0.94	1.0	02/10/13	02/13/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		0.25	1.86	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		0.25	1.37	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		0.25	1.37	"	"	"
Trichloroethene (79-01-6)	U	U		0.05	0.27	"	"	"
Trichlorofluoromethane (75-69-4)	U	U		0.25	1.41	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		0.25	1.92	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		0.25	1.23	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		0.25	1.23	"	"	"
Vinyl chloride (75-01-4)	U	U		0.05	0.13	"	"	"
meta-/para-Xylene (na)	**0.75**	**3.26**		0.25	1.09	"	"	"
ortho-Xylene (95-47-6)	**0.30**	**1.30**		0.25	1.09	"	"	"

FEO

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-02 **Station ID: ASI-101-01232013 (A3430)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 12.8 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.90		98.8	70-130	02/10/13	02/13/13
1,2-Dichloroethane-d4	8.40		105	70-130	"	"
Toluene-d8	6.63		82.9	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		0.25	0.54	1.0	02/10/13	02/13/13
Benzene (71-43-2)	**0.66**	**2.11**		0.05	0.16	"	"	"
1,3-Butadiene (106-99-0)	U	U		0.25	0.55	"	"	"
Bromomethane (74-83-9)	U	U		0.25	0.97	"	"	"
Carbon tetrachloride (56-23-5)	U	U		0.25	1.58	"	"	"
Chlorobenzene (108-90-7)	U	U		0.25	1.15	"	"	"
Chloroethane (75-00-3)	U	U		0.25	0.66	"	"	"
Chloroform (67-66-3)	U	U		0.25	1.22	"	"	"
Chloromethane (74-87-3)	**0.59**	**1.22**		0.25	0.52	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		0.25	1.93	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		0.25	1.51	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		0.25	1.51	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		0.25	1.51	"	"	"
Dichlorodifluoromethane (75-71-8)	**0.45**	**2.23**		0.25	1.24	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		0.25	1.01	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		0.25	1.01	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		0.25	0.99	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**0.51**	**2.03**		0.05	0.20	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		0.25	1.16	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		0.25	1.14	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		0.25	1.14	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		0.25	1.75	"	"	"
Ethylbenzene (100-41-4)	U	U		0.25	1.09	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		0.25	2.67	"	"	"
Methylene chloride (75-09-2)	**0.65**	**2.26**	**B**	0.25	0.87	"	"	"
Styrene (100-42-5)	U	U		0.25	1.07	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		0.25	1.72	"	"	"
Tetrachloroethene (127-18-4)	**1.21**	**8.22**		0.05	0.34	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-02 **Station ID: ASI-101-01232013 (A3430)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 12.8 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	**0.99**	**3.74**		0.25	0.94	1.0	02/10/13	02/13/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		0.25	1.86	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		0.25	1.37	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		0.25	1.37	"	"	"
Trichloroethene (79-01-6)	**0.30**	**1.62**		0.05	0.27	"	"	"
Trichlorofluoromethane (75-69-4)	U	U		0.25	1.41	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		0.25	1.92	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		0.25	1.23	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		0.25	1.23	"	"	"
Vinyl chloride (75-01-4)	U	U		0.05	0.13	"	"	"
meta-/para-Xylene (na)	**0.70**	**3.05**		0.25	1.09	"	"	"
ortho-Xylene (95-47-6)	**0.28**	**1.22**		0.25	1.09	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-03 **Station ID: ASI-101-DUP-01232013 (J0120)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 13.2 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.06		88.2	70-130	02/10/13	02/13/13
1,2-Dichloroethane-d4	7.53		94.1	0-200	"	"
Toluene-d8	8.04		100	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		2.50	5.43	10	02/10/13	02/13/13
Benzene (71-43-2)	**0.70**	**2.24**		0.50	1.60	"	"	"
1,3-Butadiene (106-99-0)	U	U		2.50	5.54	"	"	"
Bromomethane (74-83-9)	U	U		2.50	9.73	"	"	"
Carbon tetrachloride (56-23-5)	U	U		2.50	15.8	"	"	"
Chlorobenzene (108-90-7)	U	U		2.50	11.5	"	"	"
Chloroethane (75-00-3)	U	U		2.50	6.61	"	"	"
Chloroform (67-66-3)	U	U		2.50	12.2	"	"	"
Chloromethane (74-87-3)	U	U		2.50	5.17	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		2.50	19.3	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		2.50	15.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		2.50	15.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		2.50	15.1	"	"	"
Dichlorodifluoromethane (75-71-8)	U	U		2.50	12.4	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		2.50	10.1	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		2.50	10.1	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		2.50	9.93	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**0.50**	**1.99**		0.50	1.99	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		2.50	11.6	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		2.50	11.4	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		2.50	11.4	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		2.50	17.5	"	"	"
Ethylbenzene (100-41-4)	U	U		2.50	10.9	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		2.50	26.7	"	"	"
Methylene chloride (75-09-2)	U	U		2.50	8.70	"	"	"
Styrene (100-42-5)	U	U		2.50	10.7	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		2.50	17.2	"	"	"
Tetrachloroethene (127-18-4)	**2.50**	**17**		0.50	3.40	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-03 **Station ID: ASI-101-DUP-01232013 (J0120)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 13.2 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	U	U		2.50	9.44	10	02/10/13	02/13/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		2.50	18.6	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		2.50	13.7	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		2.50	13.7	"	"	"
Trichloroethene (79-01-6)	U	U		0.50	2.69	"	"	"
Trichlorofluoromethane (75-69-4)	U	U		2.50	14.1	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		2.50	19.2	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		2.50	12.3	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		2.50	12.3	"	"	"
Vinyl chloride (75-01-4)	U	U		0.50	1.28	"	"	"
meta-/para-Xylene (na)	U	U		2.50	10.9	"	"	"
ortho-Xylene (95-47-6)	U	U		2.50	10.9	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-04 **Station ID: ASI-102-01232013 (B3442)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 11.1 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.94		99.2	70-130	02/10/13	02/13/13
1,2-Dichloroethane-d4	9.32		116	0-200	"	"
Toluene-d8	6.24		78.0	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		0.25	0.54	1.0	02/10/13	02/13/13
Benzene (71-43-2)	**0.72**	**2.30**		0.05	0.16	"	"	"
1,3-Butadiene (106-99-0)	U	U		0.25	0.55	"	"	"
Bromomethane (74-83-9)	U	U		0.25	0.97	"	"	"
Carbon tetrachloride (56-23-5)	U	U		0.25	1.58	"	"	"
Chlorobenzene (108-90-7)	U	U		0.25	1.15	"	"	"
Chloroethane (75-00-3)	U	U		0.25	0.66	"	"	"
Chloroform (67-66-3)	U	U		0.25	1.22	"	"	"
Chloromethane (74-87-3)	**0.68**	**1.41**		0.25	0.52	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		0.25	1.93	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		0.25	1.51	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		0.25	1.51	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		0.25	1.51	"	"	"
Dichlorodifluoromethane (75-71-8)	**0.54**	**2.68**		0.25	1.24	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		0.25	1.01	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		0.25	1.01	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		0.25	0.99	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**0.47**	**1.87**		0.05	0.20	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		0.25	1.16	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		0.25	1.14	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		0.25	1.14	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		0.25	1.75	"	"	"
Ethylbenzene (100-41-4)	U	U		0.25	1.09	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		0.25	2.67	"	"	"
Methylene chloride (75-09-2)	**0.69**	**2.40**	**B**	0.25	0.87	"	"	"
Styrene (100-42-5)	U	U		0.25	1.07	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		0.25	1.72	"	"	"
Tetrachloroethene (127-18-4)	**0.95**	**6.46**		0.05	0.34	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-04 **Station ID: ASI-102-01232013 (B3442)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 11.1 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	**0.91**	**3.44**		0.25	0.94	1.0	02/10/13	02/13/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		0.25	1.86	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		0.25	1.37	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		0.25	1.37	"	"	"
Trichloroethene (79-01-6)	**0.24**	**1.29**		0.05	0.27	"	"	"
Trichlorofluoromethane (75-69-4)	**0.25**	**1.41**		0.25	1.41	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		0.25	1.92	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		0.25	1.23	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		0.25	1.23	"	"	"
Vinyl chloride (75-01-4)	U	U		0.05	0.13	"	"	"
meta-/para-Xylene (na)	**0.59**	**2.57**		0.25	1.09	"	"	"
ortho-Xylene (95-47-6)	U	U		0.25	1.09	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-05 **Station ID: ASS-102-01232013 (M0189)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 13.6 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.61		95.1	70-130	02/10/13	02/13/13
1,2-Dichloroethane-d4	8.24		103	70-130	"	"
Toluene-d8	6.43		80.4	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		5.00	10.9	20	02/10/13	02/13/13
Benzene (71-43-2)	**1.80**	**5.76**		1.00	3.20	"	"	"
1,3-Butadiene (106-99-0)	U	U		5.00	11.1	"	"	"
Bromomethane (74-83-9)	U	U		5.00	19.5	"	"	"
Carbon tetrachloride (56-23-5)	U	U		5.00	31.5	"	"	"
Chlorobenzene (108-90-7)	U	U		5.00	23.1	"	"	"
Chloroethane (75-00-3)	U	U		5.00	13.2	"	"	"
Chloroform (67-66-3)	**34.6**	**169**		5.00	24.5	"	"	"
Chloromethane (74-87-3)	U	U		5.00	10.3	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		5.00	38.5	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		5.00	30.1	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		5.00	30.1	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		5.00	30.1	"	"	"
Dichlorodifluoromethane (75-71-8)	U	U		5.00	24.8	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		5.00	20.3	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		5.00	20.3	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		5.00	19.9	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**77.2**	**307**		1.00	3.97	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		5.00	23.2	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		5.00	22.7	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		5.00	22.7	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		5.00	35.0	"	"	"
Ethylbenzene (100-41-4)	U	U		5.00	21.7	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		5.00	53.4	"	"	"
Methylene chloride (75-09-2)	U	U		5.00	17.4	"	"	"
Styrene (100-42-5)	U	U		5.00	21.3	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		5.00	34.4	"	"	"
Tetrachloroethene (127-18-4)	**61,000**	**415,000**		500	3,400	10000	"	02/16/13

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-05 **Station ID: ASS-102-01232013 (M0189)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 13.6 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	U	U		5.00	18.9	20	02/10/13	02/13/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		5.00	37.2	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		5.00	27.3	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		5.00	27.3	"	"	"
Trichloroethene (79-01-6)	**2,040**	**11,000**		10.0	53.8	200	"	02/14/13
Trichlorofluoromethane (75-69-4)	U	U		5.00	28.1	20	"	02/13/13
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		5.00	38.4	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		5.00	24.6	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		5.00	24.6	"	"	"
Vinyl chloride (75-01-4)	**1.60**	**4.10**		1.00	2.56	"	"	"
meta-/para-Xylene (na)	U	U		5.00	21.8	"	"	"
ortho-Xylene (95-47-6)	U	U		5.00	21.7	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-06 **Station ID: ASTB-01232013 (J0188)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 14.4 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result ppbv	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
4-Bromofluorobenzene	7.58		94.8	70-130	02/10/13	02/14/13
1,2-Dichloroethane-d4	8.24		103	0-200	"	"
Toluene-d8	7.92		99.0	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		0.25	0.54	1.0	02/10/13	02/14/13
Benzene (71-43-2)	U	U		0.05	0.16	"	"	"
1,3-Butadiene (106-99-0)	U	U		0.25	0.55	"	"	"
Bromomethane (74-83-9)	U	U		0.25	0.97	"	"	"
Carbon tetrachloride (56-23-5)	U	U		0.25	1.58	"	"	"
Chlorobenzene (108-90-7)	U	U		0.25	1.15	"	"	"
Chloroethane (75-00-3)	U	U		0.25	0.66	"	"	"
Chloroform (67-66-3)	U	U		0.25	1.22	"	"	"
Chloromethane (74-87-3)	U	U		0.25	0.52	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		0.25	1.93	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		0.25	1.51	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		0.25	1.51	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		0.25	1.51	"	"	"
Dichlorodifluoromethane (75-71-8)	U	U		0.25	1.24	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		0.25	1.01	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		0.25	1.01	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		0.25	0.99	"	"	"
cis-1,2-Dichloroethene (156-59-2)	U	U		0.05	0.20	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		0.25	1.16	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		0.25	1.14	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		0.25	1.14	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		0.25	1.75	"	"	"
Ethylbenzene (100-41-4)	U	U		0.25	1.09	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		0.25	2.67	"	"	"
Methylene chloride (75-09-2)	U	U		0.25	0.87	"	"	"
Styrene (100-42-5)	U	U		0.25	1.07	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		0.25	1.72	"	"	"
Tetrachloroethene (127-18-4)	U	U		0.05	0.34	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301013-06 **Station ID: ASTB-01232013 (J0188)**

Batch: B3B1502 Date Collected: 01/23/13 Initial Pressure: 14.4 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Toluene (108-88-3)	U	U		0.25	0.94	1.0	02/10/13	02/14/13
1,2,4-Trichlorobenzene (120-82-1)	U	U		0.25	1.86	"	"	"
1,1,1-Trichloroethane (71-55-6)	U	U		0.25	1.37	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		0.25	1.37	"	"	"
Trichloroethene (79-01-6)	U	U		0.05	0.27	"	"	"
Trichlorofluoromethane (75-69-4)	U	U		0.25	1.41	"	"	"
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		0.25	1.92	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		0.25	1.23	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		0.25	1.23	"	"	"
Vinyl chloride (75-01-4)	U	U		0.05	0.13	"	"	"
meta-/para-Xylene (na)	U	U		0.25	1.09	"	"	"
ortho-Xylene (95-47-6)	U	U		0.25	1.09	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301015-01 **Station ID: ASS-101-01242013 (C3445)**

Batch: B3B1502 Date Collected: 01/24/13 Initial Pressure: 12.2 psia
Sample Type: air Sample Qualifiers:

Surrogates

Analyte	Result	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
1,2-Dichloroethane-d4	6.83		85.4	0-200	02/10/13	02/15/13
Toluene-d8	8.31		104	70-130	"	"

Targets

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
Acrylonitrile (107-13-1)	U	U		50.0	109	100	02/10/13	02/15/13
Benzene (71-43-2)	U	U		50.0	160	"	"	"
1,3-Butadiene (106-99-0)	U	U		50.0	111	"	"	"
Bromomethane (74-83-9)	U	U		50.0	195	"	"	"
Carbon tetrachloride (56-23-5)	U	U		50.0	315	"	"	"
Chlorobenzene (108-90-7)	U	U		50.0	231	"	"	"
Chloroethane (75-00-3)	U	U		50.0	132	"	"	"
Chloroform (67-66-3)	U	U		50.0	245	"	"	"
Chloromethane (74-87-3)	U	U		50.0	103	"	"	"
1,2-Dibromoethane (106-93-4)	U	U		50.0	385	"	"	"
1,2-Dichlorobenzene (95-50-1)	U	U		50.0	301	"	"	"
1,3-Dichlorobenzene (541-73-1)	U	U		50.0	301	"	"	"
1,4-Dichlorobenzene (106-46-7)	U	U		50.0	301	"	"	"
Dichlorodifluoromethane (75-71-8)	U	U		50.0	248	"	"	"
1,1-Dichloroethane (75-34-3)	U	U		50.0	203	"	"	"
1,2-Dichloroethane (107-06-2)	U	U		50.0	203	"	"	"
1,1-Dichloroethene (75-35-4)	U	U		50.0	199	"	"	"
cis-1,2-Dichloroethene (156-59-2)	**726**	**2,880**		50.0	199	"	"	"
1,2-Dichloropropane (78-87-5)	U	U		50.0	232	"	"	"
cis-1,3-Dichloropropene (10061-01-5)	U	U		50.0	227	"	"	"
trans-1,3-Dichloropropene (10061-02-6)	U	U		50.0	227	"	"	"
1,2-Dichloro-1,1,2,2-tetrafluoroethane (76-14-2)	U	U		50.0	350	"	"	"
Ethylbenzene (100-41-4)	U	U		50.0	217	"	"	"
Hexachlorobutadiene (87-68-3)	U	U		50.0	534	"	"	"
Methylene chloride (75-09-2)	U	U		50.0	174	"	"	"
Styrene (100-42-5)	U	U		50.0	213	"	"	"
1,1,2,2-Tetrachloroethane (79-34-5)	U	U		50.0	344	"	"	"
Tetrachloroethene (127-18-4)	**24,700**	**168,000**		1,000	6,800	2000	"	02/16/13
Toluene (108-88-3)	U	U		50.0	189	100	"	02/15/13

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS

Lab ID: 1301015-01 **Station ID: ASS-101-01242013 (C3445)**

Batch: B3B1502 Date Collected: 01/24/13 Initial Pressure: 12.2 psia
Sample Type: air Sample Qualifiers:

Targets (Continued)

Analyte (CAS Number)	Result ppbv	Result µg/m³	Analyte Qualifiers	Reporting Limit ppbv	Reporting Limit µg/m³	Dilution	Prepared	Analyzed
1,2,4-Trichlorobenzene (120-82-1)	U	U		50.0	372	100	02/10/13	02/15/13
1,1,1-Trichloroethane (71-55-6)	U	U		50.0	273	"	"	"
1,1,2-Trichloroethane (79-00-5)	U	U		50.0	273	"	"	"
Trichloroethene (79-01-6)	**3,720**	**20,000**		500	2,690	1000	"	02/15/13
Trichlorofluoromethane (75-69-4)	U	U		50.0	281	100	"	02/15/13
1,1,2-Trichloro-1,2,2-trifluoroethane (76-13-1)	U	U		50.0	384	"	"	"
1,2,4-Trimethylbenzene (95-63-6)	U	U		50.0	246	"	"	"
1,3,5-Trimethylbenzene (108-67-8)	U	U		50.0	246	"	"	"
Vinyl chloride (75-01-4)	U	U		50.0	128	"	"	"
meta-/para-Xylene (na)	U	U		50.0	218	"	"	"
ortho-Xylene (95-47-6)	U	U		50.0	217	"	"	"

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK1)
Prepared: 2/10/2013 Analyzed: 2/12/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.74		8.00	96.8	70-130
1,2-Dichloroethane-d4	7.91		8.00	98.9	0-200
Toluene-d8	14.6		8.00	182 #	70-130

Blank (B3B1502-BLK1)
Prepared: 2/10/2013 Analyzed: 2/12/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
Acrylonitrile	U		0.25
Benzene	U		0.05
1,3-Butadiene	U		0.25
Bromomethane	U		0.25
Carbon tetrachloride	U		0.25
Chlorobenzene	U		0.25
Chloroethane	U		0.25
Chloroform	U		0.25
Chloromethane	U		0.25
1,2-Dibromoethane	U		0.25
1,2-Dichlorobenzene	U		0.25
1,3-Dichlorobenzene	U		0.25
1,4-Dichlorobenzene	U		0.25
Dichlorodifluoromethane	U		0.25
1,1-Dichloroethane	U		0.25
1,2-Dichloroethane	U		0.25
1,1-Dichloroethene	U		0.25
cis-1,2-Dichloroethene	U		0.05
1,2-Dichloropropane	U		0.25
cis-1,3-Dichloropropene	U		0.25
trans-1,3-Dichloropropene	U		0.25

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK1)

Prepared: 2/10/2013 Analyzed: 2/12/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.25
Ethylbenzene	U		0.25
Hexachlorobutadiene	U		0.25
Methylene chloride	U		0.25
Styrene	U		0.25
1,1,2,2-Tetrachloroethane	U		0.25
Tetrachloroethene	U		0.05
Toluene	U		0.25
1,2,4-Trichlorobenzene	U		0.25
1,1,1-Trichloroethane	U		0.25
1,1,2-Trichloroethane	U		0.25
Trichloroethene	U		0.05
Trichlorofluoromethane	U		0.25
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.25
1,2,4-Trimethylbenzene	U		0.25
1,3,5-Trimethylbenzene	U		0.25
Vinyl chloride	U		0.05
meta-/para-Xylene	U		0.25
ortho-Xylene	U		0.25

Blank (B3B1502-BLK2)

Prepared: 2/10/2013 Analyzed: 2/13/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.85		8.00	98.1	70-130
1,2-Dichloroethane-d4	8.45		8.00	106	0-200
Toluene-d8	9.28		8.00	116	70-130

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK2)

Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
Acrylonitrile	U		0.25
Benzene	U		0.05
1,3-Butadiene	U		0.25
Bromomethane	U		0.25
Carbon tetrachloride	U		0.25
Chlorobenzene	U		0.25
Chloroethane	U		0.25
Chloroform	U		0.25
Chloromethane	U		0.25
1,2-Dibromoethane	U		0.25
1,2-Dichlorobenzene	U		0.25
1,3-Dichlorobenzene	U		0.25
1,4-Dichlorobenzene	U		0.25
Dichlorodifluoromethane	U		0.25
1,1-Dichloroethane	U		0.25
1,2-Dichloroethane	U		0.25
1,1-Dichloroethene	U		0.25
cis-1,2-Dichloroethene	U		0.05
1,2-Dichloropropane	U		0.25
cis-1,3-Dichloropropene	U		0.25
trans-1,3-Dichloropropene	U		0.25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.25
Ethylbenzene	U		0.25
Hexachlorobutadiene	U		0.25
Methylene chloride	U		0.25
Styrene	U		0.25
1,1,2,2-Tetrachloroethane	U		0.25
Tetrachloroethene	U		0.05
Toluene	U		0.25

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK2)
Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
1,2,4-Trichlorobenzene	U		0.25
1,1,1-Trichloroethane	U		0.25
1,1,2-Trichloroethane	U		0.25
Trichloroethene	U		0.05
Trichlorofluoromethane	U		0.25
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.25
1,2,4-Trimethylbenzene	U		0.25
1,3,5-Trimethylbenzene	U		0.25
Vinyl chloride	U		0.05
meta-/para-Xylene	U		0.25
ortho-Xylene	U		0.25

Blank (B3B1502-BLK3)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.43		8.00	92.9	70-130
1,2-Dichloroethane-d4	7.71		8.00	96.4	0-200
Toluene-d8	8.17		8.00	102	70-130

Blank (B3B1502-BLK3)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
Acrylonitrile	U		0.50
Benzene	U		0.50
1,3-Butadiene	U		0.50

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK3)

Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
Bromomethane	U		0.50
Carbon tetrachloride	U		0.50
Chlorobenzene	U		0.50
Chloroethane	U		0.50
Chloroform	U		0.50
Chloromethane	U		0.50
1,2-Dibromoethane	U		0.50
1,2-Dichlorobenzene	U		0.50
1,3-Dichlorobenzene	U		0.50
1,4-Dichlorobenzene	U		0.50
Dichlorodifluoromethane	U		0.50
1,1-Dichloroethane	U		0.50
1,2-Dichloroethane	U		0.50
1,1-Dichloroethene	U		0.50
cis-1,2-Dichloroethene	U		0.50
1,2-Dichloropropane	U		0.50
cis-1,3-Dichloropropene	U		0.50
trans-1,3-Dichloropropene	U		0.50
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.50
Ethylbenzene	U		0.50
Hexachlorobutadiene	U		0.50
Methylene chloride	U		0.50
Styrene	U		0.50
1,1,2,2-Tetrachloroethane	U		0.50
Tetrachloroethene	U		0.50
Toluene	U		0.50
1,2,4-Trichlorobenzene	U		0.50
1,1,1-Trichloroethane	U		0.50
1,1,2-Trichloroethane	U		0.50

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Blank (B3B1502-BLK3)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit
Trichloroethene	U		0.50
Trichlorofluoromethane	U		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.50
1,2,4-Trimethylbenzene	U		0.50
1,3,5-Trimethylbenzene	U		0.50
Vinyl chloride	U		0.50
meta-/para-Xylene	U		0.50
ortho-Xylene	U		0.50

LCS (B3B1502-BS1)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.81		8.00	97.6	70-130
1,2-Dichloroethane-d4	7.05		8.00	88.1	0-200
Toluene-d8	8.12		8.00	102	70-130

LCS (B3B1502-BS1)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
Acrylonitrile	10.2			10.0	102	70-130
Benzene	9.60			10.0	96.0	70-130
1,3-Butadiene	8.06			10.0	80.6	70-130
Bromomethane	7.19			10.0	71.9	70-130
Carbon tetrachloride	9.79			10.0	97.9	70-130
Chlorobenzene	10.2			10.0	102	70-130

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

LCS (B3B1502-BS1)

Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC		%REC Limits
Chloroethane	13.3			10.0	133	#	70-130
Chloroform	9.15			10.0	91.5		70-130
Chloromethane	8.24			10.0	82.4		70-130
1,2-Dibromoethane	10.6			10.0	106		70-130
1,2-Dichlorobenzene	11.0			10.0	110		70-130
1,3-Dichlorobenzene	11.2			10.0	112		70-130
1,4-Dichlorobenzene	11.4			10.0	114		70-130
Dichlorodifluoromethane	10.0			10.0	100		70-130
1,1-Dichloroethane	9.29			10.0	92.9		70-130
1,2-Dichloroethane	9.01			10.0	90.1		70-130
1,1-Dichloroethene	9.61			10.0	96.1		70-130
cis-1,2-Dichloroethene	9.15			10.0	91.5		70-130
1,2-Dichloropropane	10.0			10.0	100		70-130
cis-1,3-Dichloropropene	10.3			10.0	103		70-130
trans-1,3-Dichloropropene	10.2			10.0	102		70-130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.11			10.0	91.1		70-130
Ethylbenzene	10.3			10.0	103		70-130
Hexachlorobutadiene	10.7			10.0	107		70-130
Methylene chloride	9.17			10.0	91.7		70-130
Styrene	10.6			10.0	106		70-130
1,1,2,2-Tetrachloroethane	9.11			10.0	91.1		70-130
Tetrachloroethene	10.5			10.0	105		70-130
Toluene	10.2			10.0	102		70-130
1,2,4-Trichlorobenzene	11.4			10.0	114		70-130
1,1,1-Trichloroethane	9.41			10.0	94.1		70-130
1,1,2-Trichloroethane	10.3			10.0	103		70-130
Trichloroethene	10.5			10.0	105		70-130
Trichlorofluoromethane	9.76			10.0	97.6		70-130
1,1,2-Trichloro-1,2,2-trifluoroethane	9.50			10.0	95.0		70-130

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

LCS (B3B1502-BS1)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	%REC	%REC Limits
1,2,4-Trimethylbenzene	10.8			10.0	108	70-130
1,3,5-Trimethylbenzene	10.4			10.0	104	70-130
Vinyl chloride	8.62			10.0	86.2	70-130
meta-/para-Xylene	20.2			20.0	101	70-130
ortho-Xylene	10.1			10.0	101	70-130

LCS Dup (B3B1502-BSD1)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.84		8.00	98.0	70-130
1,2-Dichloroethane-d4	7.48		8.00	93.5	0-200
Toluene-d8	8.02		8.00	100	70-130

LCS Dup (B3B1502-BSD1)
Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Acrylonitrile	11.3			10.0		113	70-130	10.9	25
Benzene	10.4			10.0		104	70-130	8.10	25
1,3-Butadiene	8.57			10.0		85.7	70-130	6.13	25
Bromomethane	7.72			10.0		77.2	70-130	7.11	25
Carbon tetrachloride	9.85			10.0		98.5	70-130	0.61	25
Chlorobenzene	10.4			10.0		104	70-130	2.13	25
Chloroethane	12.8			10.0		128	70-130	3.98	25
Chloroform	9.95			10.0		99.5	70-130	8.38	25
Chloromethane	8.82			10.0		88.2	70-130	6.80	25

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

LCS Dup (B3B1502-BSD1)

Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
1,2-Dibromoethane	10.6			10.0		106	70-130	0.09	25
1,2-Dichlorobenzene	11.2			10.0		112	70-130	1.53	25
1,3-Dichlorobenzene	11.3			10.0		113	70-130	1.16	25
1,4-Dichlorobenzene	9.49			10.0		94.9	70-130	18.4	25
Dichlorodifluoromethane	10.7			10.0		107	70-130	6.18	25
1,1-Dichloroethane	9.97			10.0		99.7	70-130	7.06	25
1,2-Dichloroethane	9.61			10.0		96.1	70-130	6.44	25
1,1-Dichloroethene	10.3			10.0		103	70-130	6.93	25
cis-1,2-Dichloroethene	9.84			10.0		98.4	70-130	7.27	25
1,2-Dichloropropane	9.94			10.0		99.4	70-130	0.60	25
cis-1,3-Dichloropropene	10.7			10.0		107	70-130	3.99	25
trans-1,3-Dichloropropene	10.9			10.0		109	70-130	6.76	25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	9.49			10.0		94.9	70-130	4.09	25
Ethylbenzene	10.6			10.0		106	70-130	2.59	25
Hexachlorobutadiene	10.9			10.0		109	70-130	1.67	25
Methylene chloride	9.81			10.0		98.1	70-130	6.74	25
Styrene	10.9			10.0		109	70-130	2.80	25
1,1,2,2-Tetrachloroethane	9.49			10.0		94.9	70-130	4.09	25
Tetrachloroethene	10.5			10.0		105	70-130	0.38	25
Toluene	10.3			10.0		103	70-130	0.78	25
1,2,4-Trichlorobenzene	11.6			10.0		116	70-130	2.00	25
1,1,1-Trichloroethane	10.1			10.0		101	70-130	7.47	25
1,1,2-Trichloroethane	10.3			10.0		103	70-130	0.19	25
Trichloroethene	10.4			10.0		104	70-130	0.96	25
Trichlorofluoromethane	10.5			10.0		105	70-130	6.92	25
1,1,2-Trichloro-1,2,2-trifluoroethane	10.2			10.0		102	70-130	7.50	25
1,2,4-Trimethylbenzene	10.9			10.0		109	70-130	1.20	25
1,3,5-Trimethylbenzene	10.6			10.0		106	70-130	1.14	25
Vinyl chloride	9.22			10.0		92.2	70-130	6.73	25

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

LCS Dup (B3B1502-BSD1)

Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
meta-/para-Xylene	20.7			20.0		104	70-130	2.54	25
ortho-Xylene	10.3			10.0		103	70-130	2.15	25

Duplicate (B3B1502-DUP1)

Source: 1301013-04 Prepared: 2/10/2013 Analyzed: 2/13/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.85		8.00	98.1	70-130
1,2-Dichloroethane-d4	8.61		8.00	108	0-200
Toluene-d8	6.23		8.00	77.9	70-130

Duplicate (B3B1502-DUP1)

Source: 1301013-04 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Acrylonitrile	U		0.25				35
Benzene	0.67		0.05		0.72	7.19	35
1,3-Butadiene	U		0.25				35
Bromomethane	U		0.25				35
Carbon tetrachloride	U		0.25				35
Chlorobenzene	U		0.25				35
Chloroethane	U		0.25				35
Chloroform	U		0.25				35
Chloromethane	0.64		0.25		0.68	6.06	35
1,2-Dibromoethane	U		0.25				35
1,2-Dichlorobenzene	U		0.25				35
1,3-Dichlorobenzene	U		0.25				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP1)

Source: 1301013-04 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
1,4-Dichlorobenzene	U		0.25				35
Dichlorodifluoromethane	0.50		0.25		0.54	7.69	35
1,1-Dichloroethane	U		0.25				35
1,2-Dichloroethane	U		0.25				35
1,1-Dichloroethene	U		0.25				35
cis-1,2-Dichloroethene	0.45		0.05		0.47	4.35	40
1,2-Dichloropropane	U		0.25				35
cis-1,3-Dichloropropene	U		0.25				35
trans-1,3-Dichloropropene	U		0.25				35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.25				35
Ethylbenzene	U		0.25				35
Hexachlorobutadiene	U		0.25				35
Methylene chloride	0.64	B	0.25		0.69	7.52	35
Styrene	U		0.25				35
1,1,2,2-Tetrachloroethane	U		0.25				35
Tetrachloroethene	0.96		0.05		0.95	1.05	40
Toluene	0.92		0.25		0.91	1.09	35
1,2,4-Trichlorobenzene	U		0.25				35
1,1,1-Trichloroethane	U		0.25				35
1,1,2-Trichloroethane	U		0.25				35
Trichloroethene	0.24		0.05		0.24	0.00	40
Trichlorofluoromethane	U		0.25		0.25		35
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.25				35
1,2,4-Trimethylbenzene	U		0.25				35
1,3,5-Trimethylbenzene	U		0.25				35
Vinyl chloride	U		0.05				35
meta-/para-Xylene	0.60		0.25		0.59	1.68	35
ortho-Xylene	U		0.25				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP2)

Source: 1301013-05 Prepared: 2/10/2013 Analyzed: 2/13/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.80		8.00	97.5	70-130
1,2-Dichloroethane-d4	8.15		8.00	102	0-200
Toluene-d8	6.32		8.00	79.0	70-130

Duplicate (B3B1502-DUP2)

Source: 1301013-05 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Acrylonitrile	U		5.00				35
Benzene	1.60		1.00		1.80	11.8	35
1,3-Butadiene	U		5.00				35
Bromomethane	U		5.00				35
Carbon tetrachloride	U		5.00				35
Chlorobenzene	U		5.00				35
Chloroethane	U		5.00				35
Chloroform	24.6		5.00		34.6	33.8	35
Chloromethane	U		5.00				35
1,2-Dibromoethane	U		5.00				35
1,2-Dichlorobenzene	U		5.00				35
1,3-Dichlorobenzene	U		5.00				35
1,4-Dichlorobenzene	U		5.00				35
Dichlorodifluoromethane	U		5.00				35
1,1-Dichloroethane	U		5.00				35
1,2-Dichloroethane	U		5.00				35
1,1-Dichloroethene	U		5.00				35
cis-1,2-Dichloroethene	83.2		1.00		77.2	7.48	40
1,2-Dichloropropane	U		5.00				35
cis-1,3-Dichloropropene	U		5.00				35
trans-1,3-Dichloropropene	U		5.00				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP2)

Source: 1301013-05 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		5.00				35
Ethylbenzene	U		5.00				35
Hexachlorobutadiene	U		5.00				35
Methylene chloride	U		5.00				35
Styrene	U		5.00				35
1,1,2,2-Tetrachloroethane	U		5.00				35
Tetrachloroethene	69,200		500		61,000	12.6	40
Toluene	U		5.00				35
1,2,4-Trichlorobenzene	U		5.00				35
1,1,1-Trichloroethane	U		5.00				35
1,1,2-Trichloroethane	U		5.00				35
Trichloroethene	1,890		10.0		2,040	7.73	40
Trichlorofluoromethane	U		5.00				35
1,1,2-Trichloro-1,2,2-trifluoroethane	U		5.00				35
1,2,4-Trimethylbenzene	U		5.00				35
1,3,5-Trimethylbenzene	U		5.00				35
Vinyl chloride	1.40		1.00		1.60	13.3	35
meta-/para-Xylene	U		5.00				35
ortho-Xylene	U		5.00				35

Duplicate (B3B1502-DUP3)

Source: 1301013-01 Prepared: 2/10/2013 Analyzed: 2/13/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.93		8.00	99.1	70-130
1,2-Dichloroethane-d4	9.20		8.00	115	0-200
Toluene-d8	6.53		8.00	81.6	70-130

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP3)

Source: 1301013-01 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Acrylonitrile	U		0.25				35
Benzene	0.83		0.05		0.77	7.50	35
1,3-Butadiene	U		0.25				35
Bromomethane	U		0.25				35
Carbon tetrachloride	U		0.25				35
Chlorobenzene	U		0.25				35
Chloroethane	U		0.25				35
Chloroform	U		0.25				35
Chloromethane	0.67		0.25		0.62	7.75	35
1,2-Dibromoethane	U		0.25				35
1,2-Dichlorobenzene	U		0.25				35
1,3-Dichlorobenzene	U		0.25				35
1,4-Dichlorobenzene	U		0.25				35
Dichlorodifluoromethane	0.52		0.25		0.49	5.94	35
1,1-Dichloroethane	U		0.25				35
1,2-Dichloroethane	U		0.25				35
1,1-Dichloroethene	U		0.25				35
cis-1,2-Dichloroethene	U		0.05				40
1,2-Dichloropropane	U		0.25				35
cis-1,3-Dichloropropene	U		0.25				35
trans-1,3-Dichloropropene	U		0.25				35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.25				35
Ethylbenzene	U		0.25				35
Hexachlorobutadiene	U		0.25				35
Methylene chloride	0.41	B	0.25		0.38	7.59	35
Styrene	U		0.25				35
1,1,2,2-Tetrachloroethane	U		0.25				35
Tetrachloroethene	0.05		0.05		0.05	0.00	40
Toluene	0.98		0.25		1.12	13.3	35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP3)

Source: 1301013-01 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
1,2,4-Trichlorobenzene	U		0.25				35
1,1,1-Trichloroethane	U		0.25				35
1,1,2-Trichloroethane	U		0.25				35
Trichloroethene	U		0.05				40
Trichlorofluoromethane	U		0.25				35
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.25				35
1,2,4-Trimethylbenzene	U		0.25				35
1,3,5-Trimethylbenzene	U		0.25				35
Vinyl chloride	U		0.05				35
meta-/para-Xylene	0.74		0.25		0.75	1.34	35
ortho-Xylene	0.30		0.25		0.30	0.00	35

Duplicate (B3B1502-DUP4)

Source: 1301013-02 Prepared: 2/10/2013 Analyzed: 2/13/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.92		8.00	99.0	70-130
1,2-Dichloroethane-d4	8.66		8.00	108	0-200
Toluene-d8	6.41		8.00	80.1	70-130

Duplicate (B3B1502-DUP4)

Source: 1301013-02 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Acrylonitrile	U		0.25				35
Benzene	0.71		0.05		0.66	7.30	35
1,3-Butadiene	U		0.25				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP4)

Source: 1301013-02 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Bromomethane	U		0.25				35
Carbon tetrachloride	U		0.25				35
Chlorobenzene	U		0.25				35
Chloroethane	U		0.25				35
Chloroform	U		0.25				35
Chloromethane	0.63		0.25		0.59	6.56	35
1,2-Dibromoethane	U		0.25				35
1,2-Dichlorobenzene	U		0.25				35
1,3-Dichlorobenzene	U		0.25				35
1,4-Dichlorobenzene	U		0.25				35
Dichlorodifluoromethane	0.50		0.25		0.45	10.5	35
1,1-Dichloroethane	U		0.25				35
1,2-Dichloroethane	U		0.25				35
1,1-Dichloroethene	U		0.25				35
cis-1,2-Dichloroethene	0.55		0.05		0.51	7.55	40
1,2-Dichloropropane	U		0.25				35
cis-1,3-Dichloropropene	U		0.25				35
trans-1,3-Dichloropropene	U		0.25				35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		0.25				35
Ethylbenzene	U		0.25				35
Hexachlorobutadiene	U		0.25				35
Methylene chloride	0.72	B	0.25		0.65	10.2	35
Styrene	U		0.25				35
1,1,2,2-Tetrachloroethane	U		0.25				35
Tetrachloroethene	1.26		0.05		1.21	4.05	40
Toluene	1.03		0.25		0.99	3.96	35
1,2,4-Trichlorobenzene	U		0.25				35
1,1,1-Trichloroethane	U		0.25				35
1,1,2-Trichloroethane	U		0.25				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP4)

Source: 1301013-02 Prepared: 2/10/2013 Analyzed: 2/13/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Trichloroethene	0.31		0.05		0.30	3.28	40
Trichlorofluoromethane	U		0.25				35
1,1,2-Trichloro-1,2,2-trifluoroethane	U		0.25				35
1,2,4-Trimethylbenzene	U		0.25				35
1,3,5-Trimethylbenzene	U		0.25				35
Vinyl chloride	U		0.05				35
meta-/para-Xylene	0.75		0.25		0.70	6.90	35
ortho-Xylene	0.30		0.25		0.28	6.90	35

Duplicate (B3B1502-DUP5)

Source: 1301015-01 Prepared: 2/10/2013 Analyzed: 2/15/2013

Surrogates

ANALYTE	Result ppbv	Analyte Qualifier	Spike Level	%REC	%REC Limits
4-Bromofluorobenzene	7.59		8.00	94.9	70-130
1,2-Dichloroethane-d4	6.85		8.00	85.6	0-200
Toluene-d8	8.32		8.00	104	70-130

Duplicate (B3B1502-DUP5)

Source: 1301015-01 Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Acrylonitrile	U		50.0				35
Benzene	U		50.0				35
1,3-Butadiene	U		50.0				35
Bromomethane	U		50.0				35
Carbon tetrachloride	U		50.0				35
Chlorobenzene	U		50.0				35

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Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP5)

Source: 1301015-01 Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
Chloroethane	U		50.0				35
Chloroform	32.0		50.0				35
Chloromethane	U		50.0				35
1,2-Dibromoethane	U		50.0				35
1,2-Dichlorobenzene	U		50.0				35
1,3-Dichlorobenzene	U		50.0				35
1,4-Dichlorobenzene	U		50.0				35
Dichlorodifluoromethane	U		50.0				35
1,1-Dichloroethane	U		50.0				35
1,2-Dichloroethane	U		50.0				35
1,1-Dichloroethene	U		50.0				35
cis-1,2-Dichloroethene	1,200		50.0		726	49.1 #	40
1,2-Dichloropropane	U		50.0				35
cis-1,3-Dichloropropene	U		50.0				35
trans-1,3-Dichloropropene	U		50.0				35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	U		50.0				35
Ethylbenzene	U		50.0				35
Hexachlorobutadiene	U		50.0				35
Methylene chloride	U		50.0				35
Styrene	U		50.0				35
1,1,2,2-Tetrachloroethane	U		50.0				35
Tetrachloroethene	22,500		1,000		24,700	9.58	40
Toluene	U		50.0				35
1,2,4-Trichlorobenzene	U		50.0				35
1,1,1-Trichloroethane	U		50.0				35
1,1,2-Trichloroethane	U		50.0				35
Trichloroethene	3,800		500		3,720	2.13	40
Trichlorofluoromethane	U		50.0				35
1,1,2-Trichloro-1,2,2-trifluoroethane	U		50.0				35

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Toxic Organic Compounds in Ambient Air-TO15 - GC/MS - Quality Control

Batch: B3B1502 **Sample Type: air**

Duplicate (B3B1502-DUP5)

Source: 1301015-01 Prepared: 2/10/2013 Analyzed: 2/15/2013

Targets (Continued)

ANALYTE	Result ppbv	Analyte Qualifiers	Reporting Limit	Spike Level	Source Result	RPD	RPD Limit
1,2,4-Trimethylbenzene	U		50.0				35
1,3,5-Trimethylbenzene	U		50.0				35
Vinyl chloride	U		50.0				35
meta-/para-Xylene	U		50.0				35
ortho-Xylene	U		50.0				35

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012313-132453-0001
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASBKG-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445800 (None) (1)	ASBKG-01232013	01/23/2013 13:05	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John T. Bonner	1/24/13	Michael Fertitta	1/24/13	12:15						

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012313-141032-0003
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASI-101-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445794 (None) (1)	ASI-101-01232013	01/23/2013 13:50	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John T. Bonner	1/24/13	Michaela Fertitta	1/24/13	12:15						

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012313-141451-0004
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASI-101-DUP-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445795 (None) (1)	ASI-101-DUP-01232013	01/23/2013 13:50	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John Bonner	1/24/13	Michael Fertitta	1/24/13	12:15						

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012413-071846-0006
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASI-102-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445798 (None) (1)	ASI-102-01232013	01/23/2013 18:42	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John T. Bonner	1/24/13	Michael Fentiles	1/24/13	12:15						

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012313-142910-0005
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASS-102-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445799 (None) (1)	ASS-102-01232013	01/23/2013 14:22	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John T. Bonner	1/24/13	Michael A Fertitta	1/24/13	12:15						

Environmental Protection Agency
Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/24/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012313-133805-0002
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASTB-01232013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445797 (None) (1)	ASTB-01232013	01/23/2013 13:11	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John T Bonner	1/24/13	Michael Ferritto	1/24/13	12:15						

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Region 6 Laboratory
10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

USEPA CLP Generic COC (LAB COPY)
DateShipped: 1/25/2013
CarrierName: EA Engineering
AirbillNo: Hand delivered by EA

CHAIN OF CUSTODY RECORD
Site #: TXN000605460
Project Code: 1434270

No: 6-012413-075447-0007
Lab: EPA Region 6 Laboratory
Lab Contact: Christy Warren
Lab Phone: 281-983-2137

Sample #	Matrix/Sampler	Coll. Method	Analysis/Turnaround	Tag/Preservative/Bottles	Station Location	Collected	For Lab Use Only
ASS-101-01242013	Air/ John Bonner	Composite	TO-15 SIM(45)	6-445796 (None) (1)	ASS-101-01242013	01/24/2013 15:15	

Special Instructions:

Shipment for Case Complete? Y
Samples Transferred From Chain of Custody #

Analysis Key: TO-15 SIM=TO-15 SIM

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	John Bonner	1/25/13	Michael Estrada	1/25/13	10:00						

Environmental Protection Agency

Region 6 Laboratory

10625 Fallstone Road, Houston, TX 77099
Phone:(281)983-2100 Fax:(281)983-2248

Notes and Definitions

B	Blank Related - The concentration found in the sample was less than 10X the concentration found in the associated extraction, digestion and/or analysis blank. Presence in the sample is therefore suspect.
A	This sample was extracted at a single acid pH.
HTS	Sample was prepared and/or analyzed past recommended holding time. Concentrations should be considered minimum values.
ABN	Acid Base Neutrals (Semivolatile Compounds)
AES	Atomic Emission Spectrometer
BS	Blank Spike
CVAA	Cold Vapor Atomic Absorption
DCB	Decachlorobiphenyl
ECD	Electron Capture Detector
GC	Gas Chromatograph
ICP	Inductively Coupled Plasma
ISTD	Internal Standard
LCS	Laboratory Control Sample
MS	Mass Spectrometer
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	Not Applicable
NPD	Nitrogen Phosphorous Detector
NR	Not Reported
PCB	Polychlorinatedbiphenyl
RL	Reporting Limit
RT	Retention Time
TCLP	Toxicity Characteristic Leaching Procedure
TCMX	Tetrachloro-meta-xylene

Environmental Protection Agency

Region 6 Laboratory

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Phone:(281)983-2100 Fax:(281)983-2248

U	Undetected
VOA	Volatile Organic Analysis
#	Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds *per* square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

ANALYTICAL REPORT

Job Number: 340-5923-1

Job Description: 1434270 EPA 6, Jones Road RD

For:
EA Engineering, Science, and Technology
405 S. Highway 121 bypass
Building C
Suite 100
Lewisville, TX 75067

Attention: Ted Telisak

Approved for release.
Beth Riley
Customer Service Manager
2/20/2013 8:47 AM

Beth Riley
Customer Service Manager
beth.riley@testamericainc.com
02/20/2013

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters; exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

TestAmerica Laboratories, Inc.
TestAmerica Costa Mesa 3585 Cadillac Ave, Suite A, Costa Mesa, CA 92626
Tel (714) 258-8610 Fax (714) 258-0921 www.testamericainc.com

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Job Narrative
340-5923-1

Receipt
The samples were received on 1/25/2013 10:15 AM; the samples arrived in good condition.

Air - GC VOA
No analytical or quality issues were noted.

Air - GC/MS VOA
No analytical or quality issues were noted.

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Analysis Batch Number: 2990

Lab Sample ID: STD03 340-2990/4 IC Client Sample ID:

Date Analyzed: 10/17/12 12:44 Lab File ID: 340-0002066-004 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.64	Assign Peak	iancue	10/17/12 15:40
Nitrogen	8.15	Assign Peak	iancue	10/17/12 15:40

Lab Sample ID: STD04 340-2990/5 IC Client Sample ID:

Date Analyzed: 10/17/12 13:02 Lab File ID: 340-0002066-005 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.61	Assign Peak	iancue	10/17/12 15:40
Nitrogen	8.11	Assign Peak	iancue	10/17/12 15:40

Lab Sample ID: STD06 340-2990/7 IC Client Sample ID:

Date Analyzed: 10/17/12 13:48 Lab File ID: 340-0002066-007 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.47	Assign Peak	iancue	10/17/12 15:48

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Analysis Batch Number: 3380

Lab Sample ID: STD01 340-3380/1 IC Client Sample ID:

Date Analyzed: 11/29/12 10:27 Lab File ID: 340-0002328-001 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon monoxide	10.53	Incomplete Integration	iancue	11/29/12 13:58

D1946

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Analysis Batch Number: 3877

Lab Sample ID: 340-5923-1 Client Sample ID: SVE-04

Date Analyzed: 01/28/13 15:49 Lab File ID: 340-0002661-016 1-28-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Carbon monoxide	10.49	Incomplete Integration	iancue	01/29/13 11:10

Lab Sample ID: 340-5923-2 Client Sample ID: 1W-01D

Date Analyzed: 01/28/13 16:11 Lab File ID: 340-0002661-017 1-28-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.55	Baseline Smoothing	iancue	01/29/13 11:03
Nitrogen	7.89	Baseline Smoothing	iancue	01/29/13 11:03

Lab Sample ID: 340-5923-3 Client Sample ID: SVE-03

Date Analyzed: 01/28/13 16:30 Lab File ID: 340-0002661-018 1-28-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.55	Baseline Smoothing	iancue	01/29/13 11:04
Nitrogen	7.88	Baseline Smoothing	iancue	01/29/13 11:04

Lab Sample ID: 340-5923-4 Client Sample ID: SVE-02

Date Analyzed: 01/28/13 16:50 Lab File ID: 340-0002661-019 1-28-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.55	Assign Peak	iancue	01/29/13 11:06
Nitrogen	7.89	Assign Peak	iancue	01/29/13 11:06

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Analysis Batch Number: 3877

Lab Sample ID: 340-5923-5 Client Sample ID: SVE-05

Date Analyzed: 01/28/13 17:08 Lab File ID: 340-0002661-020 1-28-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.56	Assign Peak	iancue	01/29/13 11:07
Nitrogen	7.89	Assign Peak	iancue	01/29/13 11:07

GC VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Analysis Batch Number: 3886

Lab Sample ID: 340-5923-6 Client Sample ID: SVE-01-1

Date Analyzed: 01/29/13 14:36 Lab File ID: 340-0002667-012 1-29-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.55	Assign Peak	iancue	01/30/13 09:51
Nitrogen	7.89	Assign Peak	iancue	01/30/13 09:51

Lab Sample ID: 340-5923-7 Client Sample ID: SVE-01-2

Date Analyzed: 01/29/13 14:55 Lab File ID: 340-0002667-013 1-29-2013 GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Oxygen	7.55	Baseline Smoothing	iancue	01/30/13 09:51
Nitrogen	7.89	Baseline Smoothing	iancue	01/30/13 09:51

D1946

AIR - GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: MSB Analysis Batch Number: 4057

Lab Sample ID: IC 340-4057/3 Client Sample ID:

Date Analyzed: 02/14/13 10:05 Lab File ID: IC02141.D GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Trichlorofluoromethane	4.26	Baseline	kammererd	02/14/13 11:23
Carbon disulfide	5.67	Baseline	yabutl	02/14/13 11:03
cis-1,3-Dichloropropene	13.09	Baseline	yabutl	02/14/13 11:03
Styrene	17.57	Baseline	kammererd	02/14/13 11:23

Lab Sample ID: IC 340-4057/4 Client Sample ID:

Date Analyzed: 02/14/13 10:46 Lab File ID: IC02142.D GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Vinyl acetate	7.79	Split Peak	kammererd	02/14/13 11:26
m,p-Xylene	16.73	Wrong peak	kammererd	02/14/13 11:26
4-Ethyltoluene	19.24	Not Integrated	kammererd	02/14/13 11:26
1,3,5-Trimethylbenzene	19.38	Wrong peak	kammererd	02/14/13 11:26

Lab Sample ID: IC 340-4057/5 Client Sample ID:

Date Analyzed: 02/14/13 11:27 Lab File ID: IC02143.D GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Acrylonitrile	6.85	Not Integrated	kammererd	02/14/13 12:31
Vinyl acetate	7.77	Peak Tail	kammererd	02/14/13 12:31
Ethyl acetate	8.86	Baseline	yabutl	02/14/13 12:11

Lab Sample ID: ICIS 340-4057/7 Client Sample ID:

Date Analyzed: 02/14/13 12:44 Lab File ID: IC02145.D GC Column: See SOP ID:

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Propylene	2.29	Not Integrated	kammererd	02/14/13 13:27

TO-15 MOD

SAMPLE SUMMARY

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
340-5923-1	SVE-04	Air	01/23/2013 1005	01/25/2013 1015
340-5923-2	1W-01D	Air	01/23/2013 1425	01/25/2013 1015
340-5923-3	SVE-03	Air	01/23/2013 1705	01/25/2013 1015
340-5923-4	SVE-02	Air	01/23/2013 1850	01/25/2013 1015
340-5923-5	SVE-05	Air	01/23/2013 1550	01/25/2013 1015
340-5923-6	SVE-01-1	Air	01/22/2013 1113	01/25/2013 1015
340-5923-7	SVE-01-2	Air	01/22/2013 1630	01/25/2013 1015
340-5923-8	SVE-01-3	Air	01/22/2013 1900	01/25/2013 1015
340-5923-9	SVE-01-4	Air	01/22/2013 2000	01/25/2013 1015
340-5923-10	SVE-01-5	Air	01/22/2013 2100	01/25/2013 1015

EXECUTIVE SUMMARY - Detections

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
340-5923-1	**SVE-04**					
Carbon Dioxide (FID)		0.35		0.022	% v/v	D1946
Carbon monoxide		0.00082	J	0.0020	% v/v	D1946
Ethene		0.00064	J B	0.0011	% v/v	D1946
Methane (FID)		0.0012		0.00089	% v/v	D1946
Nitrogen		76		4.0	% v/v	D1946
Oxygen		22		0.45	% v/v	D1946
cis-1,2-Dichloroethene		31		15	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		120		59	ug/m3	TO-15 MOD
Tetrachloroethene		700		15	ppb v/v	TO-15 MOD
Tetrachloroethene		4700		100	ug/m3	TO-15 MOD
Toluene		4.2	J	15	ppb v/v	TO-15 MOD
Toluene		16	J	56	ug/m3	TO-15 MOD
Trichloroethene		26		15	ppb v/v	TO-15 MOD
Trichloroethene		140		80	ug/m3	TO-15 MOD
340-5923-2	**1W-01D**					
Carbon Dioxide (FID)		0.51		0.020	% v/v	D1946
Carbon monoxide		0.00087	J	0.0018	% v/v	D1946
Ethene		0.00077	J B	0.00099	% v/v	D1946
Methane (FID)		0.0050		0.00079	% v/v	D1946
Nitrogen		76		3.6	% v/v	D1946
Oxygen		22		0.40	% v/v	D1946
cis-1,2-Dichloroethene		120		20	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		490		79	ug/m3	TO-15 MOD
Tetrachloroethene		1100		20	ppb v/v	TO-15 MOD
Tetrachloroethene		7600		130	ug/m3	TO-15 MOD
Toluene		10	J	20	ppb v/v	TO-15 MOD
Toluene		38	J	75	ug/m3	TO-15 MOD
Trichloroethene		61		20	ppb v/v	TO-15 MOD
Trichloroethene		330		110	ug/m3	TO-15 MOD

EXECUTIVE SUMMARY - Detections

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
340-5923-3	**SVE-03**					
Carbon Dioxide (FID)		0.86		0.024	% v/v	D1946
Carbon monoxide		0.00089	J	0.0021	% v/v	D1946
Methane (FID)		0.00088	J	0.00094	% v/v	D1946
Nitrogen		76		4.2	% v/v	D1946
Oxygen		21		0.47	% v/v	D1946
cis-1,2-Dichloroethene		200		59	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		790		230	ug/m3	TO-15 MOD
Tetrachloroethene		2900		59	ppb v/v	TO-15 MOD
Tetrachloroethene		20000		400	ug/m3	TO-15 MOD
Trichloroethene		120		59	ppb v/v	TO-15 MOD
Trichloroethene		620		320	ug/m3	TO-15 MOD
340-5923-4	**SVE-02**					
Carbon Dioxide (TCD)		3.7		0.021	% v/v	D1946
Carbon monoxide		0.00095	J	0.0019	% v/v	D1946
Methane (FID)		0.019		0.00082	% v/v	D1946
Nitrogen		75		3.7	% v/v	D1946
Oxygen		19		0.41	% v/v	D1946
cis-1,2-Dichloroethene		3800		1000	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		15000		4100	ug/m3	TO-15 MOD
Tetrachloroethene		40000		1000	ppb v/v	TO-15 MOD
Tetrachloroethene		270000		7000	ug/m3	TO-15 MOD
Trichloroethene		2100		1000	ppb v/v	TO-15 MOD
Trichloroethene		11000		5500	ug/m3	TO-15 MOD
340-5923-5	**SVE-05**					
Carbon Dioxide (TCD)		4.1		0.021	% v/v	D1946
Methane (FID)		0.00047	J	0.00083	% v/v	D1946
Nitrogen		75		3.7	% v/v	D1946
Oxygen		18		0.42	% v/v	D1946
cis-1,2-Dichloroethene		870		170	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		3400		660	ug/m3	TO-15 MOD
Tetrachloroethene		8200		170	ppb v/v	TO-15 MOD
Tetrachloroethene		56000		1100	ug/m3	TO-15 MOD
Trichloroethene		410		170	ppb v/v	TO-15 MOD
Trichloroethene		2200		890	ug/m3	TO-15 MOD

EXECUTIVE SUMMARY - Detections

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
340-5923-6	**SVE-01-1**					
Carbon Dioxide (TCD)		1.7		0.018	% v/v	D1946
Carbon monoxide		0.00069	J	0.0017	% v/v	D1946
Methane (FID)		0.0016		0.00073	% v/v	D1946
Nitrogen		77		3.3	% v/v	D1946
Oxygen		21		0.36	% v/v	D1946
cis-1,2-Dichloroethene		1200		360	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		4700		1400	ug/m3	TO-15 MOD
Tetrachloroethene		12000		360	ppb v/v	TO-15 MOD
Tetrachloroethene		80000		2500	ug/m3	TO-15 MOD
Trichloroethene		640		360	ppb v/v	TO-15 MOD
Trichloroethene		3400		2000	ug/m3	TO-15 MOD
340-5923-7	**SVE-01-2**					
Carbon Dioxide (TCD)		2.9		0.018	% v/v	D1946
Carbon monoxide		0.00068	J	0.0016	% v/v	D1946
Methane (FID)		0.0025		0.00070	% v/v	D1946
Nitrogen		77		3.2	% v/v	D1946
Oxygen		20		0.35	% v/v	D1946
cis-1,2-Dichloroethene		2200		580	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		8900		2300	ug/m3	TO-15 MOD
Tetrachloroethene		22000		580	ppb v/v	TO-15 MOD
Tetrachloroethene		150000		4000	ug/m3	TO-15 MOD
Trichloroethene		1200		580	ppb v/v	TO-15 MOD
Trichloroethene		6400		3100	ug/m3	TO-15 MOD
340-5923-8	**SVE-01-3**					
Carbon Dioxide (TCD)		3.0		0.018	% v/v	D1946
Methane (FID)		0.0025		0.00074	% v/v	D1946
Nitrogen		76		3.3	% v/v	D1946
Oxygen		20		0.37	% v/v	D1946
cis-1,2-Dichloroethene		2200		620	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		8600		2400	ug/m3	TO-15 MOD
Tetrachloroethene		22000		620	ppb v/v	TO-15 MOD
Tetrachloroethene		150000		4200	ug/m3	TO-15 MOD
Trichloroethene		1200		620	ppb v/v	TO-15 MOD
Trichloroethene		6200		3300	ug/m3	TO-15 MOD

EXECUTIVE SUMMARY - Detections

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
340-5923-9	**SVE-01-4**					
Carbon Dioxide (TCD)		3.0		0.020	% v/v	D1946
Methane (FID)		0.0025		0.00079	% v/v	D1946
Nitrogen		77		3.6	% v/v	D1946
Oxygen		20		0.40	% v/v	D1946
cis-1,2-Dichloroethene		2300		500	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		9000		2000	ug/m3	TO-15 MOD
Tetrachloroethene		20000		500	ppb v/v	TO-15 MOD
Tetrachloroethene		140000		3400	ug/m3	TO-15 MOD
Trichloroethene		1100		500	ppb v/v	TO-15 MOD
Trichloroethene		6000		2700	ug/m3	TO-15 MOD
340-5923-10	**SVE-01-5**					
Carbon Dioxide (TCD)		2.9		0.018	% v/v	D1946
Methane (FID)		0.0026		0.00073	% v/v	D1946
Nitrogen		77		3.3	% v/v	D1946
Oxygen		20		0.37	% v/v	D1946
cis-1,2-Dichloroethene		2200		520	ppb v/v	TO-15 MOD
cis-1,2-Dichloroethene		8500		2100	ug/m3	TO-15 MOD
Tetrachloroethene		21000		520	ppb v/v	TO-15 MOD
Tetrachloroethene		140000		3500	ug/m3	TO-15 MOD
Trichloroethene		1100		520	ppb v/v	TO-15 MOD
Trichloroethene		5800		2800	ug/m3	TO-15 MOD

METHOD SUMMARY

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Fixed Gases in Air (GC)	TAL LA	ASTM D1946	
Collection via Passivated Canister			Passivated Can
Volatile Organic Compounds in Ambient Air	TAL LA	EPA TO-15 MOD	
Collection via Passivated Canister			Passivated Can

Lab References:

TAL LA = TestAmerica Costa Mesa

Method References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Method	Analyst	Analyst ID
ASTM D1946	Iancu, Elena	EI
EPA TO-15 MOD	Almagro, Arnie	AA

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-04**

Lab Sample ID: 340-5923-1

Client Matrix: Air

Date Sampled: 01/23/2013 1005

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3877	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002661-016
Dilution:	2.23			Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1549			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (FID)	0.35		0.0045	0.022
Carbon monoxide	0.00082	J	0.00045	0.0020
Ethane	ND		0.00027	0.0011
Ethene	0.00064	J B	0.00033	0.0011
Methane (FID)	0.0012		0.00027	0.00089
Nitrogen	76		1.3	4.0
Oxygen	22		0.11	0.45

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **1W-01D**

Lab Sample ID: 340-5923-2

Client Matrix: Air

Date Sampled: 01/23/2013 1425

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3877	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002661-017
Dilution:	1.98			Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1611			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (FID)	0.51		0.0040	0.020
Carbon monoxide	0.00087	J	0.00040	0.0018
Ethane	ND		0.00024	0.00099
Ethene	0.00077	J B	0.00030	0.00099
Methane (FID)	0.0050		0.00024	0.00079
Nitrogen	76		1.2	3.6
Oxygen	22		0.099	0.40

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-03**

Lab Sample ID: 340-5923-3

Client Matrix: Air

Date Sampled: 01/23/2013 1705

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3877	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002661-018
Dilution:	2.35			Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1630			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (FID)	0.86		0.0047	0.024
Carbon monoxide	0.00089	J	0.00047	0.0021
Ethane	ND		0.00028	0.0012
Ethene	ND		0.00035	0.0012
Methane (FID)	0.00088	J	0.00028	0.00094
Nitrogen	76		1.4	4.2
Oxygen	21		0.12	0.47

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-02**

Lab Sample ID: 340-5923-4

Client Matrix: Air

Date Sampled: 01/23/2013 1850

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3877	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002661-019
Dilution:	2.06			Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1650			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	3.7		0.0041	0.021
Carbon monoxide	0.00095	J	0.00041	0.0019
Ethane	ND		0.00025	0.0010
Ethene	ND		0.00031	0.0010
Methane (FID)	0.019		0.00025	0.00082
Nitrogen	75		1.2	3.7
Oxygen	19		0.10	0.41

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-05**

Lab Sample ID: 340-5923-5

Client Matrix: Air

Date Sampled: 01/23/2013 1550

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3877	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002661-020
Dilution:	2.08			Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1708			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	4.1		0.0042	0.021
Carbon monoxide	ND		0.00042	0.0019
Ethane	ND		0.00025	0.0010
Ethene	ND		0.00031	0.0010
Methane (FID)	0.00047	J	0.00025	0.00083
Nitrogen	75		1.2	3.7
Oxygen	18		0.10	0.42

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-1**

Lab Sample ID: 340-5923-6

Client Matrix: Air

Date Sampled: 01/22/2013 1113

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3886	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002667-012
Dilution:	1.82			Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1436			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	1.7		0.0036	0.018
Carbon monoxide	0.00069	J	0.00036	0.0017
Ethane	ND		0.00022	0.00091
Ethene	ND		0.00027	0.00091
Methane (FID)	0.0016		0.00022	0.00073
Nitrogen	77		1.1	3.3
Oxygen	21		0.091	0.36

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-2**

Lab Sample ID: 340-5923-7

Client Matrix: Air

Date Sampled: 01/22/2013 1630

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3886	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002667-013
Dilution:	1.75			Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1455			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	2.9		0.0035	0.018
Carbon monoxide	0.00068	J	0.00035	0.0016
Ethane	ND		0.00021	0.00088
Ethene	ND		0.00026	0.00088
Methane (FID)	0.0025		0.00021	0.00070
Nitrogen	77		1.1	3.2
Oxygen	20		0.088	0.35

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-3**

Lab Sample ID: 340-5923-8

Client Matrix: Air

Date Sampled: 01/22/2013 1900

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3886	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002667-014
Dilution:	1.84			Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1513			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	3.0		0.0037	0.018
Carbon monoxide	ND		0.00037	0.0017
Ethane	ND		0.00022	0.00092
Ethene	ND		0.00028	0.00092
Methane (FID)	0.0025		0.00022	0.00074
Nitrogen	76		1.1	3.3
Oxygen	20		0.092	0.37

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-4**

Lab Sample ID: 340-5923-9

Client Matrix: Air

Date Sampled: 01/22/2013 2000

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3886	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002667-015
Dilution:	1.98			Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1533			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	3.0		0.0040	0.020
Carbon monoxide	ND		0.00040	0.0018
Ethane	ND		0.00024	0.00099
Ethene	ND		0.00030	0.00099
Methane (FID)	0.0025		0.00024	0.00079
Nitrogen	77		1.2	3.6
Oxygen	20		0.099	0.40

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-5**

Lab Sample ID: 340-5923-10

Client Matrix: Air

Date Sampled: 01/22/2013 2100

Date Received: 01/25/2013 1015

D1946 Fixed Gases in Air (GC)

Analysis Method:	D1946	Analysis Batch:	340-3886	Instrument ID:	GC8
	N/A	Prep Batch:	N/A	Lab File ID:	340-0002667-016
Dilution:	1.83			Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1552			Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL

Analyte	Result (% v/v)	Qualifier	MDL	RL
Carbon Dioxide (TCD)	2.9		0.0037	0.018
Carbon monoxide	ND		0.00037	0.0017
Ethane	ND		0.00022	0.00092
Ethene	ND		0.00027	0.00092
Methane (FID)	0.0026		0.00022	0.00073
Nitrogen	77		1.1	3.3
Oxygen	20		0.092	0.37

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-04**

Lab Sample ID: 340-5923-1

Client Matrix: Air

Date Sampled: 01/23/2013 1005

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9703.D
Dilution:	3.72			Initial Weight/Volume:	350 mL
Analysis Date:	02/14/2013 1957			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		3.7	15
Chloroform	ND		3.7	15
1,1-Dichloroethene	ND		3.7	15
cis-1,2-Dichloroethene	31		3.7	15
trans-1,2-Dichloroethene	ND		3.7	15
Methyl-t-Butyl Ether (MTBE)	ND		3.7	15
Tetrachloroethene	700		3.7	15
Toluene	4.2	J	3.7	15
Trichloroethene	26		3.7	15
Vinyl chloride	ND		3.7	15

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		12	48
Chloroform	ND		18	73
1,1-Dichloroethene	ND		15	59
cis-1,2-Dichloroethene	120		15	59
trans-1,2-Dichloroethene	ND		15	59
Methyl-t-Butyl Ether (MTBE)	ND		13	54
Tetrachloroethene	4700		25	100
Toluene	16	J	14	56
Trichloroethene	140		20	80
Vinyl chloride	ND		9.5	38

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **1W-01D**

Lab Sample ID: 340-5923-2

Client Matrix: Air

Date Sampled: 01/23/2013 1425

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9704.D
Dilution:	4.96			Initial Weight/Volume:	200 mL
Analysis Date:	02/14/2013 2035			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		5.0	20
Chloroform	ND		5.0	20
1,1-Dichloroethene	ND		5.0	20
cis-1,2-Dichloroethene	120		5.0	20
trans-1,2-Dichloroethene	ND		5.0	20
Methyl-t-Butyl Ether (MTBE)	ND		5.0	20
Tetrachloroethene	1100		5.0	20
Toluene	10	J	5.0	20
Trichloroethene	61		5.0	20
Vinyl chloride	ND		5.0	20

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		16	63
Chloroform	ND		24	97
1,1-Dichloroethene	ND		20	79
cis-1,2-Dichloroethene	490		20	79
trans-1,2-Dichloroethene	ND		20	79
Methyl-t-Butyl Ether (MTBE)	ND		18	72
Tetrachloroethene	7600		34	130
Toluene	38	J	19	75
Trichloroethene	330		27	110
Vinyl chloride	ND		13	51

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	97		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-03**

Lab Sample ID: 340-5923-3

Client Matrix: Air

Date Sampled: 01/23/2013 1705

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9705.D
Dilution:	14.7			Initial Weight/Volume:	80 mL
Analysis Date:	02/14/2013 2116			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		15	59
Chloroform	ND		15	59
1,1-Dichloroethene	ND		15	59
cis-1,2-Dichloroethene	200		15	59
trans-1,2-Dichloroethene	ND		15	59
Methyl-t-Butyl Ether (MTBE)	ND		15	59
Tetrachloroethene	2900		15	59
Toluene	ND		15	59
Trichloroethene	120		15	59
Vinyl chloride	ND		15	59

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		47	190
Chloroform	ND		72	290
1,1-Dichloroethene	ND		58	230
cis-1,2-Dichloroethene	790		58	230
trans-1,2-Dichloroethene	ND		58	230
Methyl-t-Butyl Ether (MTBE)	ND		53	210
Tetrachloroethene	20000		100	400
Toluene	ND		55	220
Trichloroethene	620		79	320
Vinyl chloride	ND		38	150

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	124		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	124		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-02**

Lab Sample ID: 340-5923-4

Client Matrix: Air

Date Sampled: 01/23/2013 1850

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9706.D
Dilution:	258			Initial Weight/Volume:	4 mL
Analysis Date:	02/14/2013 2156			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		260	1000
Chloroform	ND		260	1000
1,1-Dichloroethene	ND		260	1000
cis-1,2-Dichloroethene	3800		260	1000
trans-1,2-Dichloroethene	ND		260	1000
Methyl-t-Butyl Ether (MTBE)	ND		260	1000
Tetrachloroethene	40000		260	1000
Toluene	ND		260	1000
Trichloroethene	2100		260	1000
Vinyl chloride	ND		260	1000

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		820	3300
Chloroform	ND		1300	5000
1,1-Dichloroethene	ND		1000	4100
cis-1,2-Dichloroethene	15000		1000	4100
trans-1,2-Dichloroethene	ND		1000	4100
Methyl-t-Butyl Ether (MTBE)	ND		930	3700
Tetrachloroethene	270000		1700	7000
Toluene	ND		970	3900
Trichloroethene	11000		1400	5500
Vinyl chloride	ND		660	2600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-05**

Lab Sample ID: 340-5923-5

Client Matrix: Air

Date Sampled: 01/23/2013 1550

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9707.D
Dilution:	41.6			Initial Weight/Volume:	25 mL
Analysis Date:	02/14/2013 2237			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		42	170
Chloroform	ND		42	170
1,1-Dichloroethene	ND		42	170
cis-1,2-Dichloroethene	870		42	170
trans-1,2-Dichloroethene	ND		42	170
Methyl-t-Butyl Ether (MTBE)	ND		42	170
Tetrachloroethene	8200		42	170
Toluene	ND		42	170
Trichloroethene	410		42	170
Vinyl chloride	ND		42	170

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		130	530
Chloroform	ND		200	810
1,1-Dichloroethene	ND		160	660
cis-1,2-Dichloroethene	3400		160	660
trans-1,2-Dichloroethene	ND		160	660
Methyl-t-Butyl Ether (MTBE)	ND		150	600
Tetrachloroethene	56000		280	1100
Toluene	ND		160	630
Trichloroethene	2200		220	890
Vinyl chloride	ND		110	430

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-1**

Lab Sample ID: 340-5923-6

Client Matrix: Air

Date Sampled: 01/22/2013 1113

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9708.D
Dilution:	91			Initial Weight/Volume:	10 mL
Analysis Date:	02/14/2013 2317			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		91	360
Chloroform	ND		91	360
1,1-Dichloroethene	ND		91	360
cis-1,2-Dichloroethene	1200		91	360
trans-1,2-Dichloroethene	ND		91	360
Methyl-t-Butyl Ether (MTBE)	ND		91	360
Tetrachloroethene	12000		91	360
Toluene	ND		91	360
Trichloroethene	640		91	360
Vinyl chloride	ND		91	360

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		290	1200
Chloroform	ND		440	1800
1,1-Dichloroethene	ND		360	1400
cis-1,2-Dichloroethene	4700		360	1400
trans-1,2-Dichloroethene	ND		360	1400
Methyl-t-Butyl Ether (MTBE)	ND		330	1300
Tetrachloroethene	80000		620	2500
Toluene	ND		340	1400
Trichloroethene	3400		490	2000
Vinyl chloride	ND		230	930

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-2**

Lab Sample ID: 340-5923-7

Client Matrix: Air

Date Sampled: 01/22/2013 1630

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9709.D
Dilution:	146			Initial Weight/Volume:	6 mL
Analysis Date:	02/14/2013 2357			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		150	580
Chloroform	ND		150	580
1,1-Dichloroethene	ND		150	580
cis-1,2-Dichloroethene	2200		150	580
trans-1,2-Dichloroethene	ND		150	580
Methyl-t-Butyl Ether (MTBE)	ND		150	580
Tetrachloroethene	22000		150	580
Toluene	ND		150	580
Trichloroethene	1200		150	580
Vinyl chloride	ND		150	580

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		470	1900
Chloroform	ND		710	2900
1,1-Dichloroethene	ND		580	2300
cis-1,2-Dichloroethene	8900		580	2300
trans-1,2-Dichloroethene	ND		580	2300
Methyl-t-Butyl Ether (MTBE)	ND		530	2100
Tetrachloroethene	150000		990	4000
Toluene	ND		550	2200
Trichloroethene	6400		780	3100
Vinyl chloride	ND		370	1500

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	118		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-3**

Lab Sample ID: 340-5923-8

Client Matrix: Air

Date Sampled: 01/22/2013 1900

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9710.D
Dilution:	154			Initial Weight/Volume:	6 mL
Analysis Date:	02/15/2013 0037			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		150	620
Chloroform	ND		150	620
1,1-Dichloroethene	ND		150	620
cis-1,2-Dichloroethene	2200		150	620
trans-1,2-Dichloroethene	ND		150	620
Methyl-t-Butyl Ether (MTBE)	ND		150	620
Tetrachloroethene	22000		150	620
Toluene	ND		150	620
Trichloroethene	1200		150	620
Vinyl chloride	ND		150	620

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		490	2000
Chloroform	ND		750	3000
1,1-Dichloroethene	ND		610	2400
cis-1,2-Dichloroethene	8600		610	2400
trans-1,2-Dichloroethene	ND		610	2400
Methyl-t-Butyl Ether (MTBE)	ND		560	2200
Tetrachloroethene	150000		1000	4200
Toluene	ND		580	2300
Trichloroethene	6200		830	3300
Vinyl chloride	ND		390	1600

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	115		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,2-Dichloroethane-d4 (Surr)	115		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-4**

Lab Sample ID: 340-5923-9

Client Matrix: Air

Date Sampled: 01/22/2013 2000

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9711.D
Dilution:	124			Initial Weight/Volume:	8 mL
Analysis Date:	02/15/2013 0118			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		120	500
Chloroform	ND		120	500
1,1-Dichloroethene	ND		120	500
cis-1,2-Dichloroethene	2300		120	500
trans-1,2-Dichloroethene	ND		120	500
Methyl-t-Butyl Ether (MTBE)	ND		120	500
Tetrachloroethene	20000		120	500
Toluene	ND		120	500
Trichloroethene	1100		120	500
Vinyl chloride	ND		120	500

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		400	1600
Chloroform	ND		610	2400
1,1-Dichloroethene	ND		490	2000
cis-1,2-Dichloroethene	9000		490	2000
trans-1,2-Dichloroethene	ND		490	2000
Methyl-t-Butyl Ether (MTBE)	ND		450	1800
Tetrachloroethene	140000		840	3400
Toluene	ND		470	1900
Trichloroethene	6000		670	2700
Vinyl chloride	ND		320	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,2-Dichloroethane-d4 (Surr)	94		70 - 130
Toluene-d8 (Surr)	103		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Client Sample ID: **SVE-01-5**

Lab Sample ID: 340-5923-10

Client Matrix: Air

Date Sampled: 01/22/2013 2100

Date Received: 01/25/2013 1015

TO-15 MOD Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15 MOD	Analysis Batch:	340-4057	Instrument ID:	MSB
	N/A	Prep Batch:	N/A	Lab File ID:	B9712.D
Dilution:	130			Initial Weight/Volume:	7 mL
Analysis Date:	02/15/2013 0158			Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL

Analyte	Result (ppb v/v)	Qualifier	MDL	RL
Benzene	ND		130	520
Chloroform	ND		130	520
1,1-Dichloroethene	ND		130	520
cis-1,2-Dichloroethene	2200		130	520
trans-1,2-Dichloroethene	ND		130	520
Methyl-t-Butyl Ether (MTBE)	ND		130	520
Tetrachloroethene	21000		130	520
Toluene	ND		130	520
Trichloroethene	1100		130	520
Vinyl chloride	ND		130	520

Analyte	Result (ug/m3)	Qualifier	MDL	RL
Benzene	ND		420	1700
Chloroform	ND		630	2500
1,1-Dichloroethene	ND		520	2100
cis-1,2-Dichloroethene	8500		520	2100
trans-1,2-Dichloroethene	ND		520	2100
Methyl-t-Butyl Ether (MTBE)	ND		470	1900
Tetrachloroethene	140000		880	3500
Toluene	ND		490	2000
Trichloroethene	5800		700	2800
Vinyl chloride	ND		330	1300

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,2-Dichloroethane-d4 (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Surrogate Recovery Report

TO-15 MOD Volatile Organic Compounds in Ambient Air

Client Matrix: Air

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec
340-5923-1	SVE-04	91	101	97
340-5923-2	1W-01D	97	100	101
340-5923-3	SVE-03	124	100	99
340-5923-4	SVE-02	107	100	102
340-5923-5	SVE-05	118	99	101
340-5923-6	SVE-01-1	116	100	99
340-5923-7	SVE-01-2	118	101	100
340-5923-8	SVE-01-3	115	98	98
340-5923-9	SVE-01-4	94	103	101
340-5923-10	SVE-01-5	100	101	100
MB 340-4057/16		98	100	99
LCS 340-4057/1002		78	104	101
LCSD 340-4057/15		82	101	98

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Method Blank - Batch: 340-3877

Method: D1946
Preparation: N/A

Lab Sample ID:	MB 340-3877/8	Analysis Batch:	340-3877	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002661-008
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1256	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Carbon Dioxide (FID)	ND		0.0020	0.010
Carbon monoxide	ND		0.00020	0.00091
Ethane	ND		0.00012	0.00050
Ethene	0.000222	J	0.00015	0.00050
Methane (FID)	ND		0.00012	0.00040
Nitrogen	ND		0.60	1.8
Oxygen	ND		0.050	0.20

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 340-3877

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3877/4	Analysis Batch:	340-3877	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002661-004
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1127	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 340-3877/5	Analysis Batch:	340-3877	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002661-005
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1146	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Carbon Dioxide (TCD)	93	93	80 - 120	0	20		
Methane (TCD)	103	103	80 - 120	0	20		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 340-3877

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3877/6	Analysis Batch:	340-3877	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002661-006
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1205	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 340-3877/7	Analysis Batch:	340-3877	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002661-007
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/28/2013 1224	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Carbon Dioxide (FID)	112	111	80 - 120	0	20		
Carbon monoxide	108	107	80 - 120	1	20		
Ethane	111	110	80 - 120	1	20		
Ethene	110	109	80 - 120	0	20		
Methane (FID)	108	107	80 - 120	1	20		
Nitrogen	103	103	80 - 120	0	20		
Oxygen	106	107	80 - 120	1	20		

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 340-3877

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3877/4	Units:	% v/v	LCSD Lab Sample ID:	LCSD 340-3877/5
Client Matrix:	Air			Client Matrix:	Air
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2013 1127			Analysis Date:	01/28/2013 1146
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
Carbon Dioxide (TCD)	10.0	10.0	9.26	9.27
Methane (TCD)	9.90	9.90	10.2	10.2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 340-3877

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3877/6	Units:	% v/v	LCSD Lab Sample ID:	LCSD 340-3877/7
Client Matrix:	Air			Client Matrix:	Air
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/28/2013 1205			Analysis Date:	01/28/2013 1224
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
Carbon Dioxide (FID)	0.400	0.400	0.447	0.446
Carbon monoxide	0.0451	0.0451	0.0488	0.0484
Ethane	0.0495	0.0495	0.0550	0.0547
Ethene	0.0495	0.0495	0.0542	0.0540
Methane (FID)	0.0495	0.0495	0.0533	0.0530
Nitrogen	20.0	20.0	20.6	20.6
Oxygen	4.98	4.98	5.29	5.33

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Method Blank - Batch: 340-3886

Method: D1946
Preparation: N/A

Lab Sample ID:	MB 340-3886/8	Analysis Batch:	340-3886	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002667-008
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1257	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Carbon Dioxide (FID)	ND		0.0020	0.010
Carbon monoxide	ND		0.00020	0.00091
Ethane	ND		0.00012	0.00050
Ethene	0.000163	J	0.00015	0.00050
Methane (FID)	ND		0.00012	0.00040
Nitrogen	ND		0.60	1.8
Oxygen	ND		0.050	0.20

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 340-3886

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3886/4	Analysis Batch:	340-3886	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002667-004
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1116	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 340-3886/5	Analysis Batch:	340-3886	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002667-005
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1136	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Carbon Dioxide (TCD)	93	93	80 - 120	0	20		
Methane (TCD)	103	103	80 - 120	1	20		

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 340-3886

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3886/6	Analysis Batch:	340-3886	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002667-006
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1156	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 340-3886/7	Analysis Batch:	340-3886	Instrument ID:	GC8
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	340-0002667-007
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1 mL
Analysis Date:	01/29/2013 1228	Units:	% v/v	Final Weight/Volume:	1 mL
Prep Date:	N/A			Injection Volume:	1 mL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Carbon Dioxide (FID)	112	113	80 - 120	0	20		
Carbon monoxide	109	108	80 - 120	1	20		
Ethane	112	112	80 - 120	0	20		
Ethene	111	111	80 - 120	0	20		
Methane (FID)	109	108	80 - 120	1	20		
Nitrogen	104	104	80 - 120	0	20		
Oxygen	112	107	80 - 120	5	20		

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 340-3886

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3886/4	Units:	% v/v	LCSD Lab Sample ID:	LCSD 340-3886/5
Client Matrix:	Air			Client Matrix:	Air
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/29/2013 1116			Analysis Date:	01/29/2013 1136
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
Carbon Dioxide (TCD)	10.0	10.0	9.25	9.29
Methane (TCD)	9.90	9.90	10.2	10.2

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 340-3886

Method: D1946
Preparation: N/A

LCS Lab Sample ID:	LCS 340-3886/6	Units:	% v/v	LCSD Lab Sample ID:	LCSD 340-3886/7
Client Matrix:	Air			Client Matrix:	Air
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/29/2013 1156			Analysis Date:	01/29/2013 1228
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
Carbon Dioxide (FID)	0.400	0.400	0.450	0.450
Carbon monoxide	0.0451	0.0451	0.0491	0.0487
Ethane	0.0495	0.0495	0.0555	0.0554
Ethene	0.0495	0.0495	0.0547	0.0549
Methane (FID)	0.0495	0.0495	0.0538	0.0533
Nitrogen	20.0	20.0	20.8	20.7
Oxygen	4.98	4.98	5.59	5.32

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Method Blank - Batch: 340-4057

Method: TO-15 MOD
Preparation: N/A

Lab Sample ID:	MB 340-4057/16	Analysis Batch:	340-4057	Instrument ID:	MSB
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	MB02143M.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	02/14/2013 1903	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Benzene	ND		1.0	4.0
Chloroform	ND		1.0	4.0
1,1-Dichloroethene	ND		1.0	4.0
cis-1,2-Dichloroethene	ND		1.0	4.0
trans-1,2-Dichloroethene	ND		1.0	4.0
Methyl-t-Butyl Ether (MTBE)	ND		1.0	4.0
Tetrachloroethene	ND		1.0	4.0
Toluene	ND		1.0	4.0
Trichloroethene	ND		1.0	4.0
Vinyl chloride	ND		1.0	4.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Method Blank - Batch: 340-4057

Method: TO-15 MOD
Preparation: N/A

Lab Sample ID:	MB 340-4057/16	Analysis Batch:	340-4057	Instrument ID:	MSB
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	MB02143M.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	500 mL
Analysis Date:	02/14/2013 1903	Units:	ug/m3	Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Benzene	ND		3.2	13
Chloroform	ND		4.9	20
1,1-Dichloroethene	ND		4.0	16
cis-1,2-Dichloroethene	ND		4.0	16
trans-1,2-Dichloroethene	ND		4.0	16
Methyl-t-Butyl Ether (MTBE)	ND		3.6	14
Tetrachloroethene	ND		6.8	27
Toluene	ND		3.8	15
Trichloroethene	ND		5.4	21
Vinyl chloride	ND		2.6	10

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,2-Dichloroethane-d4 (Surr)	98	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 340-4057

Method: TO-15 MOD
Preparation: N/A

LCS Lab Sample ID:	LCS 340-4057/1002	Analysis Batch:	340-4057	Instrument ID:	MSB
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	LC02143-LCS.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	02/14/2013 1742	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 340-4057/15	Analysis Batch:	340-4057	Instrument ID:	MSB
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	LC02144.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	02/14/2013 1822	Units:	ppb v/v	Final Weight/Volume:	500 mL
Prep Date:	N/A			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	103	102	70 - 130	1	25		
Chloroform	109	108	70 - 130	1	25		
1,1-Dichloroethene	109	111	70 - 130	2	25		
cis-1,2-Dichloroethene	118	119	70 - 130	1	25		
trans-1,2-Dichloroethene	111	111	70 - 130	1	25		
Methyl-t-Butyl Ether (MTBE)	108	108	70 - 130	0	25		
Tetrachloroethene	104	104	70 - 130	1	25		
Toluene	119	118	70 - 130	1	25		
Trichloroethene	115	114	70 - 130	1	25		
Vinyl chloride	106	105	70 - 130	2	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene (Surr)	101	98	70 - 130
1,2-Dichloroethane-d4 (Surr)	78	82	70 - 130
Toluene-d8 (Surr)	104	101	70 - 130

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 340-4057

Method: TO-15 MOD
Preparation: N/A

LCS Lab Sample ID:	LCS 340-4057/1002	Units:	ppb v/v	LCSD Lab Sample ID:	LCSD 340-4057/15
Client Matrix:	Air			Client Matrix:	Air
Dilution:	1.0			Dilution:	1.0
Analysis Date:	02/14/2013 1742			Analysis Date:	02/14/2013 1822
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
Benzene	50.0	50.0	51.5	51.2
Chloroform	50.0	50.0	54.3	53.8
1,1-Dichloroethene	50.0	50.0	54.7	55.6
cis-1,2-Dichloroethene	50.0	50.0	58.9	59.4
trans-1,2-Dichloroethene	50.0	50.0	55.7	55.3
Methyl-t-Butyl Ether (MTBE)	50.0	50.0	54.0	53.8
Tetrachloroethene	50.0	50.0	52.2	51.8
Toluene	50.0	50.0	59.3	58.8
Trichloroethene	50.0	50.0	57.6	56.9
Vinyl chloride	50.0	50.0	53.2	52.3

DATA REPORTING QUALIFIERS

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Lab Section	Qualifier	Description
GC VOA		
	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
Air - GC/MS VOA		
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:340-3877					
LCS 340-3877/4	Lab Control Sample	T	Air	D1946	
LCS 340-3877/6	Lab Control Sample	T	Air	D1946	
LCS 340-3877/9	Lab Control Sample	T	Air	D1946	
LCSD 340-3877/10	Lab Control Sample Duplicate	T	Air	D1946	
LCSD 340-3877/5	Lab Control Sample Duplicate	T	Air	D1946	
LCSD 340-3877/7	Lab Control Sample Duplicate	T	Air	D1946	
MB 340-3877/11	Method Blank	T	Air	D1946	
MB 340-3877/8	Method Blank	T	Air	D1946	
340-5923-1	SVE-04	T	Air	D1946	
340-5923-2	1W-01D	T	Air	D1946	
340-5923-3	SVE-03	T	Air	D1946	
340-5923-4	SVE-02	T	Air	D1946	
340-5923-5	SVE-05	T	Air	D1946	
Analysis Batch:340-3886					
LCS 340-3886/4	Lab Control Sample	T	Air	D1946	
LCS 340-3886/6	Lab Control Sample	T	Air	D1946	
LCS 340-3886/9	Lab Control Sample	T	Air	D1946	
LCSD 340-3886/10	Lab Control Sample Duplicate	T	Air	D1946	
LCSD 340-3886/5	Lab Control Sample Duplicate	T	Air	D1946	
LCSD 340-3886/7	Lab Control Sample Duplicate	T	Air	D1946	
MB 340-3886/11	Method Blank	T	Air	D1946	
MB 340-3886/8	Method Blank	T	Air	D1946	
340-5923-6	SVE-01-1	T	Air	D1946	
340-5923-7	SVE-01-2	T	Air	D1946	
340-5923-8	SVE-01-3	T	Air	D1946	
340-5923-9	SVE-01-4	T	Air	D1946	
340-5923-10	SVE-01-5	T	Air	D1946	

Report Basis

T = Total

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:340-4057					
LCS 340-4057/1002	Lab Control Sample	T	Air	TO-15 MOD	
LCSD 340-4057/15	Lab Control Sample Duplicate	T	Air	TO-15 MOD	
MB 340-4057/16	Method Blank	T	Air	TO-15 MOD	
340-5923-1	SVE-04	T	Air	TO-15 MOD	
340-5923-2	1W-01D	T	Air	TO-15 MOD	
340-5923-3	SVE-03	T	Air	TO-15 MOD	
340-5923-4	SVE-02	T	Air	TO-15 MOD	
340-5923-5	SVE-05	T	Air	TO-15 MOD	
340-5923-6	SVE-01-1	T	Air	TO-15 MOD	
340-5923-7	SVE-01-2	T	Air	TO-15 MOD	
340-5923-8	SVE-01-3	T	Air	TO-15 MOD	
340-5923-9	SVE-01-4	T	Air	TO-15 MOD	
340-5923-10	SVE-01-5	T	Air	TO-15 MOD	

Report Basis

T = Total

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Laboratory Chronicle

Lab ID: 340-5923-1 **Client ID:** SVE-04

Sample Date/Time: 01/23/2013 10:05 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-1		340-3877		01/28/2013 15:49	2.23	TAL LA	EI
A:TO-15 MOD	340-5923-A-1		340-4057		02/14/2013 19:57	3.72	TAL LA	AA

Lab ID: 340-5923-2 **Client ID:** 1W-01D

Sample Date/Time: 01/23/2013 14:25 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-2		340-3877		01/28/2013 16:11	1.98	TAL LA	EI
A:TO-15 MOD	340-5923-A-2		340-4057		02/14/2013 20:35	4.96	TAL LA	AA

Lab ID: 340-5923-3 **Client ID:** SVE-03

Sample Date/Time: 01/23/2013 17:05 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-3		340-3877		01/28/2013 16:30	2.35	TAL LA	EI
A:TO-15 MOD	340-5923-A-3		340-4057		02/14/2013 21:16	14.7	TAL LA	AA

Lab ID: 340-5923-4 **Client ID:** SVE-02

Sample Date/Time: 01/23/2013 18:50 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-4		340-3877		01/28/2013 16:50	2.06	TAL LA	EI
A:TO-15 MOD	340-5923-A-4		340-4057		02/14/2013 21:56	258	TAL LA	AA

Lab ID: 340-5923-5 **Client ID:** SVE-05

Sample Date/Time: 01/23/2013 15:50 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-5		340-3877		01/28/2013 17:08	2.08	TAL LA	EI
A:TO-15 MOD	340-5923-A-5		340-4057		02/14/2013 22:37	41.6	TAL LA	AA

Lab ID: 340-5923-6 **Client ID:** SVE-01-1

Sample Date/Time: 01/22/2013 11:13 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-6		340-3886		01/29/2013 14:36	1.82	TAL LA	EI
A:TO-15 MOD	340-5923-A-6		340-4057		02/14/2013 23:17	91	TAL LA	AA

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Laboratory Chronicle

Lab ID: 340-5923-7 **Client ID:** SVE-01-2

Sample Date/Time: 01/22/2013 16:30 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-7		340-3886		01/29/2013 14:55	1.75	TAL LA	EI
A:TO-15 MOD	340-5923-A-7		340-4057		02/14/2013 23:57	146	TAL LA	AA

Lab ID: 340-5923-8 **Client ID:** SVE-01-3

Sample Date/Time: 01/22/2013 19:00 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-8		340-3886		01/29/2013 15:13	1.84	TAL LA	EI
A:TO-15 MOD	340-5923-A-8		340-4057		02/15/2013 00:37	154	TAL LA	AA

Lab ID: 340-5923-9 **Client ID:** SVE-01-4

Sample Date/Time: 01/22/2013 20:00 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-9		340-3886		01/29/2013 15:33	1.98	TAL LA	EI
A:TO-15 MOD	340-5923-A-9		340-4057		02/15/2013 01:18	124	TAL LA	AA

Lab ID: 340-5923-10 **Client ID:** SVE-01-5

Sample Date/Time: 01/22/2013 21:00 Received Date/Time: 01/25/2013 10:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:D1946	340-5923-A-10		340-3886		01/29/2013 15:52	1.83	TAL LA	EI
A:TO-15 MOD	340-5923-A-10		340-4057		02/15/2013 01:58	130	TAL LA	AA

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
A:D1946	MB 340-3877/8		340-3877		01/28/2013 12:56	1	TAL LA	EI
A:D1946	MB 340-3886/8		340-3886		01/29/2013 12:57	1	TAL LA	EI
A:TO-15 MOD	MB 340-4057/16		340-4057		02/14/2013 19:03	1	TAL LA	AA

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

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
A:D1946	LCS 340-3877/4		340-3877		01/28/2013 11:27	1	TAL LA	EI
A:D1946	LCS 340-3877/6		340-3877		01/28/2013 12:05	1	TAL LA	EI
A:D1946	LCS 340-3886/4		340-3886		01/29/2013 11:16	1	TAL LA	EI
A:D1946	LCS 340-3886/6		340-3886		01/29/2013 11:56	1	TAL LA	EI
A:TO-15 MOD	LCS 340-4057/1002		340-4057		02/14/2013 17:42	1	TAL LA	AA

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:D1946	LCSD 340-3877/5		340-3877		01/28/2013 11:46	1	TAL LA	EI
A:D1946	LCSD 340-3877/7		340-3877		01/28/2013 12:24	1	TAL LA	EI
A:D1946	LCSD 340-3886/5		340-3886		01/29/2013 11:36	1	TAL LA	EI
A:D1946	LCSD 340-3886/7		340-3886		01/29/2013 12:28	1	TAL LA	EI
A:TO-15 MOD	LCSD 340-4057/15		340-4057		02/14/2013 18:22	1	TAL LA	AA

Lab References:

TAL LA = TestAmerica Costa Mesa

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
FGSPKTCDDIL_00002	11/16/13	01/18/13	N2, Lot NA	30.3 psi absolute	FGSPKTCD_00005	15.15 psi absolute	Carbon Dioxide (TCD)	99990 ppm v/v
							Methane (TCD)	99000 ppm v/v
.FGSPKTCD_00005	11/16/13	11/16/12	N2, Lot NA	12.5 L	GCFGCO2SPKTCD_00002	2500 mL	Carbon Dioxide (TCD)	199980 ppm v/v
					GCFGMETCDSPK_00002	2500 mL	Methane (TCD)	198000 ppm v/v
..GCFGCO2SPKTCD_00002	11/16/13	THE AMERICAN GROUP, Lot 1102BA11			(Purchased Reagent)		Carbon Dioxide (TCD)	999900 ppm v/v
..GCFGMETCDSPK_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 0214BG11			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
GCFGFIDCAL03_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL06_00002	10 mL	Carbon Dioxide (FID)	99.8 ppm v/v
							Carbon monoxide	45.1 ppm v/v
							Ethane	49.95 ppm v/v
							Ethene	49.75 ppm v/v
							Methane (FID)	49.5 ppm v/v
.GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCO2FIDCAL_00002	200 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
..GCCO2FIDCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC03L			(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
..GCCOCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC02L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
..GCETHANECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC10L			(Purchased Reagent)		Ethane	999000 ppm v/v
..GCETHENECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC09L			(Purchased Reagent)		Ethene	995000 ppm v/v
..GCMETHFIDCA12_00002	12/29/13	AIR LIQUIDE, Lot 326PLU1SPC05L			(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL04_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL06_00002	50 mL	Carbon Dioxide (FID)	499 ppm v/v
							Carbon monoxide	225.5 ppm v/v
							Ethane	249.75 ppm v/v
							Ethene	248.75 ppm v/v
							Methane (FID)	247.5 ppm v/v
.GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCO2FIDCAL_00002	200 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
..GCCO2FIDCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC03L			(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
..GCCOCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC02L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
..GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
..GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL05_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL06_00002	100 mL	Carbon Dioxide (FID)	998 ppm v/v
							Carbon monoxide	451 ppm v/v
							Ethane	499.5 ppm v/v
							Ethene	497.5 ppm v/v
							Methane (FID)	495 ppm v/v
.GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCO2FIDCAL_00002	200 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
..GCCO2FIDCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC03L		(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
..GCCOCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC02L		(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
..GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
..GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
..GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCO2FIDCAL_00002	200 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
.GCCO2FIDCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC03L		(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
.GCCOCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC02L		(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
.GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
.GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
.GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL07_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL06_00002	200 mL	Carbon Dioxide (FID)	1996 ppm v/v
							Carbon monoxide	902 ppm v/v
							Ethane	999 ppm v/v
							Ethene	995 ppm v/v
							Methane (FID)	990 ppm v/v
.GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCO2FIDCAL_00002	200 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
..GCCO2FIDCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC03L		(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
..GCCOCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC02L		(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
..GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
..GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
..GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL09_00002	11/08/13	11/08/12	N2, Lot na	10000 mL	GCETHANECAL12_00001	100 mL	Ethane	9990 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	9950 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	9900 ppm v/v
.GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
.GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
.GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDCAL10_00002	11/08/13	11/08/12	N2, Lot na	10000 mL	GCCO2FIDCAL_00002	100 mL	Carbon Dioxide (FID)	9980 ppm v/v
					GCCOCAL_00002	2000 mL	Carbon monoxide	9020 ppm v/v
.GCCO2FIDCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC03L		(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
.GCCOCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC02L		(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
GCFGFIDCAL2_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL04_00003	40 mL	Carbon monoxide	9.02 ppm v/v
							Ethane	9.99 ppm v/v
							Ethene	9.95 ppm v/v
							Methane (FID)	9.9 ppm v/v
.GCFGFIDCAL04_00003	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDCAL06_00002	50 mL	Carbon monoxide	225.5 ppm v/v
							Ethane	249.75 ppm v/v
							Ethene	248.75 ppm v/v
							Methane (FID)	247.5 ppm v/v
..GCFGFIDCAL06_00002	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCOCAL_00002	2000 mL	Carbon monoxide	4510 ppm v/v
					GCETHANECAL12_00001	100 mL	Ethane	4995 ppm v/v
					GCETHENECAL12_00001	100 mL	Ethene	4975 ppm v/v
					GCMETHFIDCA12_00002	100 mL	Methane (FID)	4950 ppm v/v
...GCCOCAL_00002	10/12/15		AIR LIQUIDE, Lot 285PLU2SPC02L		(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
...GCETHANECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC10L		(Purchased Reagent)		Ethane	999000 ppm v/v
...GCETHENECAL12_00001	12/28/13		AIR LIQUIDE, Lot 362PLU1SPC09L		(Purchased Reagent)		Ethene	995000 ppm v/v
...GCMETHFIDCA12_00002	12/29/13		AIR LIQUIDE, Lot 326PLU1SPC05L		(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGFIDICV_00004	12/02/12	11/29/12	N2, Lot na	1000 mL	GCFGFIDINTICV_00001	200 mL	Carbon monoxide	902 ppm v/v
							Carbon Dioxide (FID)	1999.8 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethane	990 ppm v/v
							Ethene	990 ppm v/v
							Methane (FID)	990 ppm v/v
.GCFGFIDINTICV_00001	11/08/13	11/08/12	N2, Lot na	20000 mL	GCCOLCS12_00001	2000 mL	Carbon monoxide	4510 ppm v/v
					GCFGCO2SPKFI_00002	200 mL	Carbon Dioxide (FID)	9999 ppm v/v
					GCFGETHANSPK_00002	100 mL	Ethane	4950 ppm v/v
					GCFGETHENSPK_00002	100 mL	Ethene	4950 ppm v/v
					GCFGMETSPKFID_00002	100 mL	Methane (FID)	4950 ppm v/v
..GCCOLCS12_00001	03/22/14	AIR LIQUIDE, Lot 081PLU2SPC05L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
..GCFGCO2SPKFI_00002	11/16/13	THE AMERICAN GROUP, Lot 1102BA11			(Purchased Reagent)		Carbon Dioxide (FID)	999900 ppm v/v
..GCFGETHANSPK_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 0616BG08			(Purchased Reagent)		Ethane	990000 ppm v/v
..GCFGETHENSPK_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 1123BE09			(Purchased Reagent)		Ethene	990000 ppm v/v
..GCFGMETSPKFID_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 0214BG11			(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGHEH2ICAL1_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL4_00003	20 mL	Hydrogen	199.998 ppm v/v
							Helium	199.998 ppm v/v
.GCFGHEH2ICAL4_00003	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL6_00002	100 mL	Hydrogen	9999.9 ppm v/v
							Helium	9999.9 ppm v/v
..GCFGHEH2ICAL6_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	100 mL	Hydrogen	99999 ppm v/v
					HELIUM UHP_00017	100 mL	Helium	99999 ppm v/v
...GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
...HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL2_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL4_00003	100 mL	Hydrogen	999.99 ppm v/v
							Helium	999.99 ppm v/v
.GCFGHEH2ICAL4_00003	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL6_00002	100 mL	Hydrogen	9999.9 ppm v/v
							Helium	9999.9 ppm v/v
..GCFGHEH2ICAL6_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	100 mL	Hydrogen	99999 ppm v/v
					HELIUM UHP_00017	100 mL	Helium	99999 ppm v/v
...GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
...HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL3_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL5_00002	100 mL	Hydrogen	2999.97 ppm v/v
							Helium	2999.97 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
.GCFGHEH2ICAL5_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL7_00002	100 mL	Hydrogen	29999.7 ppm v/v
							Helium	29999.7 ppm v/v
..GCFGHEH2ICAL7_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	300 mL	Hydrogen	299997 ppm v/v
					HELIUM UHP_00017	300 mL	Helium	299997 ppm v/v
...GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
...HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL4_00003	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL6_00002	100 mL	Hydrogen	9999.9 ppm v/v
							Helium	9999.9 ppm v/v
.GCFGHEH2ICAL6_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	100 mL	Hydrogen	99999 ppm v/v
					HELIUM UHP_00017	100 mL	Helium	99999 ppm v/v
..GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
..HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL5_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCFGHEH2ICAL7_00002	100 mL	Hydrogen	29999.7 ppm v/v
							Helium	29999.7 ppm v/v
.GCFGHEH2ICAL7_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	300 mL	Hydrogen	299997 ppm v/v
					HELIUM UHP_00017	300 mL	Helium	299997 ppm v/v
..GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
..HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL6_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	100 mL	Hydrogen	99999 ppm v/v
					HELIUM UHP_00017	100 mL	Helium	99999 ppm v/v
.GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
.HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCFGHEH2ICAL7_00002	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHYDRCCV12_00005	300 mL	Hydrogen	299997 ppm v/v
					HELIUM UHP_00017	300 mL	Helium	299997 ppm v/v
.GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
.HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GCFGHEH2ICV_00003	11/17/12	11/14/12	N2, Lot NA	1000 mL	GCHELSPKLCS_00001	125 mL	Helium	124994 ppm v/v
					GCHYDSPKLCS_00001	125 mL	Hydrogen	124988 ppm v/v
.GCHELSPKLCS_00001	05/31/13	AIR LIQUIDE, Lot 151PLU1SPC04L			(Purchased Reagent)		Helium	999950 ppm v/v
.GCHYDSPKLCS_00001	05/31/13	AIR LIQUIDE, Lot 151PLU1SPC01C			(Purchased Reagent)		Hydrogen	999900 ppm v/v
GCFGLCS12_00003	07/05/13	11/14/12	He, Lot NA	50000 mL	GCCOLCS12_00001	500 mL	Carbon monoxide	451 ppm v/v
					GCFGCO2SPKFI_00002	200 mL	Carbon Dioxide (FID)	3999.6 ppm v/v
					GCFGETHANSPK_00002	25 mL	Ethane	495 ppm v/v
					GCFGETHENSPK_00002	25 mL	Ethene	495 ppm v/v
					GCFGMETSPKFID_00002	25 mL	Methane (FID)	495 ppm v/v
					GCNITROGENLCS_00001	9977.5 mL	Nitrogen	199530 ppm v/v
					GCOXYGENLCS_00001	2500 mL	Oxygen	49800 ppm v/v
.GCCOLCS12_00001	03/22/14	AIR LIQUIDE, Lot 081PLU2SPC05L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
.GCFGCO2SPKFI_00002	11/16/13	THE AMERICAN GROUP, Lot 1102BA11			(Purchased Reagent)		Carbon Dioxide (FID)	999900 ppm v/v
.GCFGETHANSPK_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 0616BG08			(Purchased Reagent)		Ethane	990000 ppm v/v
.GCFGETHENSPK_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 1123BE09			(Purchased Reagent)		Ethene	990000 ppm v/v
.GCFGMETSPKFID_00002	11/16/13	THE AMERICAN GAS GROUP, Lot 0214BG11			(Purchased Reagent)		Methane (FID)	990000 ppm v/v
.GCNITROGENLCS_00001	03/22/14	AIR LIQUIDE, Lot 080PLU2SPC05L			(Purchased Reagent)		Nitrogen	999900 ppm v/v
.GCOXYGENLCS_00001	07/05/13	AIR LIQUIDE, Lot 104PLU1SPC06L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGLOQ_00006	08/22/13	11/15/12	N2, Lot na	20000 mL	GCFGCOINTE12_00002	40.4 mL	Carbon monoxide	9.1102 ppm v/v
					GCFGETAINTE12_00003	100 mL	Ethane	4.995 ppm v/v
					GCFGETEINTE12_00003	100 mL	Ethene	4.975 ppm v/v
					GCFGMETHINTER_00005	80 mL	Methane (FID)	3.96 ppm v/v
.GCFGCOINTE12_00002	11/08/13	11/08/12	N2, Lot NA	2000 mL	GCCOCAL_00002	200 mL	Carbon monoxide	4510 ppm v/v
..GCCOCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC02L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
.GCFGETAINTE12_00003	11/08/13	11/08/12	N2, Lot na	20000 mL	GCETHANECAL12_00001	20 mL	Ethane	999 ppm v/v
..GCETHANECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC10L			(Purchased Reagent)		Ethane	999000 ppm v/v
.GCFGETEINTE12_00003	11/08/13	11/08/12	N2, Lot na	20000 mL	GCETHENECAL12_00001	20 mL	Ethene	995 ppm v/v
..GCETHENECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC09L			(Purchased Reagent)		Ethene	995000 ppm v/v
.GCFGMETHINTER_00005	11/14/13	11/14/12	N2, Lot NA	20000 mL	GCMETHFIDCA12_00002	20 mL	Methane (FID)	990 ppm v/v
..GCMETHFIDCA12_00002	12/29/13	AIR LIQUIDE, Lot 326PLU1SPC05L			(Purchased Reagent)		Methane (FID)	990000 ppm v/v
GCFGO2CAL1_00001	01/17/13	04/27/12	He, Lot NA	20 L	GCOXYGENCAL_00001	40 mL	Oxygen	1992 ppm v/v
.GCOXYGENCAL_00001	01/17/13	AIR LIQUIDE, Lot 211PLU0SPC09L			(Purchased Reagent)		Oxygen	996000 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
GCFGO2N2CAL04_00002	05/06/13	05/07/12	He, Lot NA	10 L	GCNITROCAL12_00003	1000 mL	Nitrogen	99999 ppm v/v
					GCOXYGENCAL_00002	1000 mL	Oxygen	99600 ppm v/v
.GCNITROCAL12_00003	05/06/13	AIRGAS, Lot 14-400054804-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
.GCOXYGENCAL_00002	09/11/13	AIR LIQUIDE, Lot 181PLU1SPC01L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGO2N2CAL2_00003	01/17/13	04/27/12	He, Lot NA	20 L	GCNITROCAL12_00005	200 mL	Nitrogen	9999.9 ppm v/v
					GCOXYGENCAL_00001	200 mL	Oxygen	9960 ppm v/v
.GCNITROCAL12_00005	08/28/13	AIRGAS, Lot 14-400088536-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
.GCOXYGENCAL_00001	01/17/13	AIR LIQUIDE, Lot 211PLU0SPC09L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGO2N2CAL3_00005	10/20/12	10/17/12	He, Lot NA	1 L	GCFGO2N2CAL5_00002	100 mL	Nitrogen	30003.8 ppm v/v
							Oxygen	29884.1 ppm v/v
.GCFGO2N2CAL5_00002	01/17/13	10/17/11	He, Lot NA	24.33 psi absolute	GCNITROCAL12_00006	7.3 psi absolute	Nitrogen	300038 ppm v/v
					GCOXYGENCAL_00001	7.3 psi absolute	Oxygen	298841 ppm v/v
..GCNITROCAL12_00006	10/15/13	AIRGAS, Lot 14-400103050-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
..GCOXYGENCAL_00001	01/17/13	AIR LIQUIDE, Lot 211PLU0SPC09L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGO2N2CAL5_00002	01/17/13	10/17/11	He, Lot NA	24.33 psi absolute	GCNITROCAL12_00006	7.3 psi absolute	Nitrogen	300038 ppm v/v
					GCOXYGENCAL_00001	7.3 psi absolute	Oxygen	298841 ppm v/v
.GCNITROCAL12_00006	10/15/13	AIRGAS, Lot 14-400103050-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
.GCOXYGENCAL_00001	01/17/13	AIR LIQUIDE, Lot 211PLU0SPC09L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGO2N2CCV2_00002	09/11/13	12/13/12	He, Lot NA	43.45 psi absolute	GCNITROGENCCV_00001	34.76 psi absolute	Nitrogen	799992 ppm v/v
					GCOXYGENCAL_00002	3.69 psi absolute	Oxygen	199200 ppm v/v
.GCNITROGENCCV_00001	10/15/13	AIRGAS, Lot 14-400103050-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
.GCOXYGENCAL_00002	09/11/13	AIR LIQUIDE, Lot 181PLU1SPC01L			(Purchased Reagent)		Oxygen	996000 ppm v/v
GCFGTCDCAL1_00002	08/11/12	08/08/12	N2, Lot NA	1000 mL	GCFGTCDCAL3_00002	100 mL	Carbon Dioxide (TCD)	4990 ppm v/v
							Methane (TCD)	4950 ppm v/v
.GCFGTCDCAL3_00002	08/11/12	08/08/12	N2, Lot NA	1000 mL	GCCO2TCDCAL_00001	50 mL	Carbon Dioxide (TCD)	49900 ppm v/v
					GCMETHTCDCA12_00001	50 mL	Methane (TCD)	49500 ppm v/v

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
..GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFGTCDCAL2_00002	08/11/11	08/08/12	N2, Lot NA	1000 mL	GCFGTCDCAL3_00002	200 mL	Carbon Dioxide (TCD)	9980 ppm v/v
							Methane (TCD)	9900 ppm v/v
.GCFGTCDCAL3_00002	08/11/12	08/08/12	N2, Lot NA	1000 mL	GCCO2TCDCAL_00001	50 mL	Carbon Dioxide (TCD)	49900 ppm v/v
					GCMETHTCDCA12_00001	50 mL	Methane (TCD)	49500 ppm v/v
..GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
..GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFGTCDCAL3_00002	08/11/12	08/08/12	N2, Lot NA	1000 mL	GCCO2TCDCAL_00001	50 mL	Carbon Dioxide (TCD)	49900 ppm v/v
					GCMETHTCDCA12_00001	50 mL	Methane (TCD)	49500 ppm v/v
.GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
.GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFGTCDCAL4_00002	08/11/12	08/08/12	N2, Lot NA	800 mL	GCCO2TCDCAL_00001	200 mL	Carbon Dioxide (TCD)	249500 ppm v/v
					GCMETHTCDCA12_00001	200 mL	Methane (TCD)	247500 ppm v/v
.GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
.GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFGTCDCAL5_00002	08/11/12	08/08/12	N2, Lot NA	400 mL	GCCO2TCDCAL_00001	200 mL	Carbon Dioxide (TCD)	499000 ppm v/v
					GCMETHTCDCA12_00001	200 mL	Methane (TCD)	495000 ppm v/v
.GCCO2TCDCAL_00001	10/12/12	SCOTT SPECIALTY, Lot 028504L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
.GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFGTCDCCVDIL_00004	10/16/13	01/17/13	N2, Lot NA	24.36 psi absolute	GCFGTCDCCV_00006	12.18 psi absolute	Carbon Dioxide (TCD)	49900 ppm v/v
							Methane (TCD)	49500 ppm v/v
.GCFGTCDCCV_00006	10/16/13	10/16/12	N2, Lot NA	20000 mL	GCCO2TCDCAL_00002	2000 mL	Carbon Dioxide (TCD)	99800 ppm v/v
					GCMETHTCDCA12_00001	2000 mL	Methane (TCD)	99000 ppm v/v
..GCCO2TCDCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC03L			(Purchased Reagent)		Carbon Dioxide (TCD)	998000 ppm v/v
..GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCFIDCCV125_00004	08/22/13	12/28/12	N2, Lot NA	22.28 psi absolute	GCFIDCCV250_00006	11.14 psi absolute	Carbon Dioxide (FID)	1247.5 ppm v/v

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Carbon monoxide	112.75 ppm v/v
							Ethane	124.875 ppm v/v
							Ethene	124.375 ppm v/v
							Hydrogen	24999.8 ppm v/v
							Methane (FID)	123.75 ppm v/v
							Helium	24999.8 ppm v/v
.GCFIDCCV250_00006	08/22/13	10/16/12	N2, Lot NA	20 L	GCCO2FIDCAL_00002	50 mL	Carbon Dioxide (FID)	2495 ppm v/v
					GCCOCAL_00002	100 mL	Carbon monoxide	225.5 ppm v/v
					GCETHANECAL12_00001	5 mL	Ethane	249.75 ppm v/v
					GCETHENECAL12_00001	5 mL	Ethene	248.75 ppm v/v
					GCHYDRCCV12_00005	1000 mL	Hydrogen	49999.5 ppm v/v
					GCMETHFIDCA12_00001	5 mL	Methane (FID)	247.5 ppm v/v
					HELIUM UHP_00017	1000 mL	Helium	49999.5 ppm v/v
..GCCO2FIDCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC03L			(Purchased Reagent)		Carbon Dioxide (FID)	998000 ppm v/v
..GCCOCAL_00002	10/12/15	AIR LIQUIDE, Lot 285PLU2SPC02L			(Purchased Reagent)		Carbon monoxide	45100 ppm v/v
..GCETHANECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC10L			(Purchased Reagent)		Ethane	999000 ppm v/v
..GCETHENECAL12_00001	12/28/13	AIR LIQUIDE, Lot 362PLU1SPC09L			(Purchased Reagent)		Ethene	995000 ppm v/v
..GCHYDRCCV12_00005	08/22/13	AIR GAS, Lot 14-400086874-1			(Purchased Reagent)		Hydrogen	999990 ppm v/v
..GCMETHFIDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (FID)	990000 ppm v/v
..HELIUM UHP_00017	09/27/13	AIRGAS, Lot 14-400090838-1			(Purchased Reagent)		Helium	999990 ppm v/v
GCMETHTCDCA12_00001	12/28/13	AIR LIQUIDE, Lot 353PLU1SPC13L			(Purchased Reagent)		Methane (TCD)	990000 ppm v/v
GCNITROCAL12_00006	10/15/13	AIRGAS, Lot 14-400103050-1			(Purchased Reagent)		Nitrogen	999990 ppm v/v
GCOXYGENCAL_00001	01/17/13	AIR LIQUIDE, Lot 211PLU0SPC09L			(Purchased Reagent)		Oxygen	996000 ppm v/v
MSCORPCAL100_00015	03/06/13	01/10/13	N2, Lot 14-400114149-1	31.1 psi absolute	MSCORPCAL200_00062	15.55 psi absolute	1,1,1-Trichloroethane	100 ppb v/v
							1,1,2,2-Tetrachloroethane	110 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	100 ppb v/v
							1,1,2-Trichloroethane	109 ppb v/v

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,1-Dichloroethane	100 ppb v/v
							1,1-Dichloroethene	100 ppb v/v
							1,2,3-Trichlorobenzene	109 ppb v/v
							1,2,3-Trichloropropane	100 ppb v/v
							1,2,4-Trichlorobenzene	110 ppb v/v
							1,2,4-Trimethylbenzene	108 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	100 ppb v/v
							1,2-Dichlorobenzene	109 ppb v/v
							1,2-Dichloroethane	108 ppb v/v
							1,2-Dichloropropane	108 ppb v/v
							1,3,5-Trimethylbenzene	110 ppb v/v
							1,3-Dichlorobenzene	110 ppb v/v
							1,4-Dichlorobenzene	109 ppb v/v
							1,4-Dioxane	109 ppb v/v
							2-Butanone (MEK)	108 ppb v/v
							2-Chlorotoluene	107 ppb v/v
							2-Hexanone	110 ppb v/v
							3-Chloro-1-propene	110 ppb v/v
							4-Ethyltoluene	108 ppb v/v
							4-Isopropyltoluene	100 ppb v/v
							4-Methyl-2-pentanone (MIBK)	108 ppb v/v
							Acetone	100 ppb v/v
							Acrolein	100 ppb v/v
							Acrylonitrile	100 ppb v/v
							Alpha Methyl Styrene	110 ppb v/v
							Benzene	106 ppb v/v
							Benzyl chloride	110 ppb v/v
							Bromoform	108 ppb v/v
							Bromomethane	100 ppb v/v
							Butadiene	106 ppb v/v
							Butane	107 ppb v/v
							C6 Range	100 ppb v/v
							Carbon disulfide	100 ppb v/v
							Carbon tetrachloride	108 ppb v/v
							Chlorobenzene	110 ppb v/v
							Chlorodibromomethane	110 ppb v/v
							Chlorodifluoromethane	106 ppb v/v
							Chloroethane	100 ppb v/v
							Chloroform	100 ppb v/v
							Chloromethane	100 ppb v/v
							cis-1,2-Dichloroethene	106 ppb v/v
							cis-1,3-Dichloropropene	100 ppb v/v
							Cyclohexane	107 ppb v/v
							Dibromomethane	108 ppb v/v
							Dichlorobromomethane	109 ppb v/v
							Dichlorodifluoromethane	100 ppb v/v
							Dodecane	100 ppb v/v

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethyl acetate	100 ppb v/v
							Ethyl ether	100 ppb v/v
							Ethylbenzene	109 ppb v/v
							Ethylene Dibromide	108 ppb v/v
							Hexachlorobutadiene	110 ppb v/v
							Hexane	100 ppb v/v
							Isooctane	100 ppb v/v
							Isopropyl alcohol	113 ppb v/v
							Isopropylbenzene	100 ppb v/v
							m-Xylene & p-Xylene	216 ppb v/v
							Methyl methacrylate	106 ppb v/v
							Methyl-t-Butyl Ether (MTBE)	107 ppb v/v
							Methylene Chloride	110 ppb v/v
							n-Butylbenzene	106 ppb v/v
							n-Decane	109 ppb v/v
							n-Heptane	109 ppb v/v
							n-Nonane	100 ppb v/v
							n-Octane	107 ppb v/v
							N-Propylbenzene	100 ppb v/v
							Naphthalene	110 ppb v/v
							o-Xylene	110 ppb v/v
							PCE Range	100 ppb v/v
							Pentane	100 ppb v/v
							Propene	114 ppb v/v
							sec-Butylbenzene	100 ppb v/v
							Styrene	110 ppb v/v
							tert-Butylbenzene	108 ppb v/v
							Tetrachloroethene	100 ppb v/v
							Tetrahydrofuran	109 ppb v/v
							Toluene	109 ppb v/v
							Toluene Range	100 ppb v/v
							trans-1,2-Dichloroethene	100 ppb v/v
							trans-1,3-Dichloropropene	110 ppb v/v
							Trichloroethene	109 ppb v/v
							Trichlorofluoromethane	100 ppb v/v
							TVOC as Toluene	100 ppb v/v
							Undecane	100 ppb v/v
							Vinyl acetate	110 ppb v/v
							Vinyl bromide	89 ppb v/v
							Vinyl chloride	100 ppb v/v
.MSCORPCAL200_00062	03/06/13	01/05/13	N2, Lot 14-400114149-1	29.9 psi absolute	MSCORPCALSKML_00006	5.98 psi absolute	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	220 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluoroethane	200 ppb v/v
							1,1,2-Trichloroethane	218 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,3-Trichlorobenzene	218 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	220 ppb v/v
							1,2,4-Trimethylbenzene	216 ppb v/v
							1,2-Dichloro-1,1,2,2-tetrafluo roethane	200 ppb v/v
							1,2-Dichlorobenzene	218 ppb v/v
							1,2-Dichloroethane	216 ppb v/v
							1,2-Dichloropropane	216 ppb v/v
							1,3,5-Trimethylbenzene	220 ppb v/v
							1,3-Dichlorobenzene	220 ppb v/v
							1,4-Dichlorobenzene	218 ppb v/v
							1,4-Dioxane	218 ppb v/v
							2-Butanone (MEK)	216 ppb v/v
							2-Chlorotoluene	214 ppb v/v
							2-Hexanone	220 ppb v/v
							3-Chloro-1-propene	220 ppb v/v
							4-Ethyltoluene	216 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	216 ppb v/v
							Acetone	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	220 ppb v/v
							Benzene	212 ppb v/v
							Benzyl chloride	220 ppb v/v
							Bromoform	216 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	212 ppb v/v
							Butane	214 ppb v/v
							C6 Range	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	216 ppb v/v
							Chlorobenzene	220 ppb v/v
							Chlorodibromomethane	220 ppb v/v
							Chlorodifluoromethane	212 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	212 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	214 ppb v/v
							Dibromomethane	216 ppb v/v
							Dichlorobromomethane	218 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Ethylbenzene	218 ppb v/v
							Ethylene Dibromide	216 ppb v/v
							Hexachlorobutadiene	220 ppb v/v
							Hexane	200 ppb v/v
							Isooctane	200 ppb v/v
							Isopropyl alcohol	226 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	432 ppb v/v
							Methyl methacrylate	212 ppb v/v
							Methyl-t-Butyl Ether (MTBE)	214 ppb v/v
							Methylene Chloride	220 ppb v/v
							n-Butylbenzene	212 ppb v/v
							n-Decane	218 ppb v/v
							n-Heptane	218 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	214 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	220 ppb v/v
							o-Xylene	220 ppb v/v
							PCE Range	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	228 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	220 ppb v/v
							tert-Butylbenzene	216 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	218 ppb v/v
							Toluene	218 ppb v/v
							Toluene Range	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	220 ppb v/v
							Trichloroethene	218 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							TVOC as Toluene	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	220 ppb v/v
							Vinyl bromide	178 ppb v/v
							Vinyl chloride	200 ppb v/v
..MSCORPCALSKML_00006	12/20/13		Linde, Lot 14004443		(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1.1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1.09 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1.09 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1.1 ppm v/v

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2,4-Trimethylbenzene	1.08 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	1 ppm v/v
							1,2-Dichlorobenzene	1.09 ppm v/v
							1,2-Dichloroethane	1.08 ppm v/v
							1,2-Dichloropropane	1.08 ppm v/v
							1,3,5-Trimethylbenzene	1.1 ppm v/v
							1,3-Dichlorobenzene	1.1 ppm v/v
							1,4-Dichlorobenzene	1.09 ppm v/v
							1,4-Dioxane	1.09 ppm v/v
							2-Butanone (MEK)	1.08 ppm v/v
							2-Chlorotoluene	1.07 ppm v/v
							2-Hexanone	1.1 ppm v/v
							3-Chloro-1-propene	1.1 ppm v/v
							4-Ethyltoluene	1.08 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1.08 ppm v/v
							Acetone	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1.1 ppm v/v
							Benzene	1.06 ppm v/v
							Benzyl chloride	1.1 ppm v/v
							Bromoform	1.08 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1.06 ppm v/v
							Butane	1.07 ppm v/v
							C6 Range	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1.08 ppm v/v
							Chlorobenzene	1.1 ppm v/v
							Chlorodibromomethane	1.1 ppm v/v
							Chlorodifluoromethane	1.06 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1.06 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1.07 ppm v/v
							Dibromomethane	1.08 ppm v/v
							Dichlorobromomethane	1.09 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1.09 ppm v/v
							Ethylene Dibromide	1.08 ppm v/v
							Hexachlorobutadiene	1.1 ppm v/v

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SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1.13 ppm v/v
							Isopropylbenzene	1 ppm v/v
							m-Xylene & p-Xylene	2.16 ppm v/v
							Methyl methacrylate	1.06 ppm v/v
							Methyl-t-Butyl Ether (MTBE)	1.07 ppm v/v
							Methylene Chloride	1.1 ppm v/v
							n-Butylbenzene	1.06 ppm v/v
							n-Decane	1.09 ppm v/v
							n-Heptane	1.09 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1.07 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1.1 ppm v/v
							o-Xylene	1.1 ppm v/v
							PCE Range	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1.14 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1.1 ppm v/v
							tert-Butylbenzene	1.08 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1.09 ppm v/v
							Toluene	1.09 ppm v/v
							Toluene Range	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1.1 ppm v/v
							Trichloroethene	1.09 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							TVOC as Toluene	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1.1 ppm v/v
							Vinyl bromide	0.89 ppm v/v
							Vinyl chloride	1 ppm v/v
MSCORPCAL200_00063	03/10/13	01/11/13	N2, Lot 14-400114149-1	30 psi absolute	MSCORPCALSKML_00006	6 psi absolute	1,1,1-Trichloroethane	200 ppb v/v
							1,1,2,2-Tetrachloroethane	220 ppb v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	200 ppb v/v
							1,1,2-Trichloroethane	218 ppb v/v
							1,1-Dichloroethane	200 ppb v/v
							1,1-Dichloroethene	200 ppb v/v
							1,2,3-Trichlorobenzene	218 ppb v/v
							1,2,3-Trichloropropane	200 ppb v/v
							1,2,4-Trichlorobenzene	220 ppb v/v
							1,2,4-Trimethylbenzene	216 ppb v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloro-1,1,2,2-tetrafluoroethane	200 ppb v/v
							1,2-Dichlorobenzene	218 ppb v/v
							1,2-Dichloroethane	216 ppb v/v
							1,2-Dichloropropane	216 ppb v/v
							1,3,5-Trimethylbenzene	220 ppb v/v
							1,3-Dichlorobenzene	220 ppb v/v
							1,4-Dichlorobenzene	218 ppb v/v
							1,4-Dioxane	218 ppb v/v
							2-Butanone (MEK)	216 ppb v/v
							2-Chlorotoluene	214 ppb v/v
							2-Hexanone	220 ppb v/v
							3-Chloro-1-propene	220 ppb v/v
							4-Ethyltoluene	216 ppb v/v
							4-Isopropyltoluene	200 ppb v/v
							4-Methyl-2-pentanone (MIBK)	216 ppb v/v
							Acetone	200 ppb v/v
							Acrolein	200 ppb v/v
							Acrylonitrile	200 ppb v/v
							Alpha Methyl Styrene	220 ppb v/v
							Benzene	212 ppb v/v
							Benzyl chloride	220 ppb v/v
							Bromoform	216 ppb v/v
							Bromomethane	200 ppb v/v
							Butadiene	212 ppb v/v
							Butane	214 ppb v/v
							C6 Range	200 ppb v/v
							Carbon disulfide	200 ppb v/v
							Carbon tetrachloride	216 ppb v/v
							Chlorobenzene	220 ppb v/v
							Chlorodibromomethane	220 ppb v/v
							Chlorodifluoromethane	212 ppb v/v
							Chloroethane	200 ppb v/v
							Chloroform	200 ppb v/v
							Chloromethane	200 ppb v/v
							cis-1,2-Dichloroethene	212 ppb v/v
							cis-1,3-Dichloropropene	200 ppb v/v
							Cyclohexane	214 ppb v/v
							Dibromomethane	216 ppb v/v
							Dichlorobromomethane	218 ppb v/v
							Dichlorodifluoromethane	200 ppb v/v
							Dodecane	200 ppb v/v
							Ethyl acetate	200 ppb v/v
							Ethyl ether	200 ppb v/v
							Ethylbenzene	218 ppb v/v
							Ethylene Dibromide	216 ppb v/v
							Hexachlorobutadiene	220 ppb v/v
							Hexane	200 ppb v/v

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Isooctane	200 ppb v/v
							Isopropyl alcohol	226 ppb v/v
							Isopropylbenzene	200 ppb v/v
							m-Xylene & p-Xylene	432 ppb v/v
							Methyl methacrylate	212 ppb v/v
							Methyl-t-Butyl Ether (MTBE)	214 ppb v/v
							Methylene Chloride	220 ppb v/v
							n-Butylbenzene	212 ppb v/v
							n-Decane	218 ppb v/v
							n-Heptane	218 ppb v/v
							n-Nonane	200 ppb v/v
							n-Octane	214 ppb v/v
							N-Propylbenzene	200 ppb v/v
							Naphthalene	220 ppb v/v
							o-Xylene	220 ppb v/v
							PCE Range	200 ppb v/v
							Pentane	200 ppb v/v
							Propene	228 ppb v/v
							sec-Butylbenzene	200 ppb v/v
							Styrene	220 ppb v/v
							tert-Butylbenzene	216 ppb v/v
							Tetrachloroethene	200 ppb v/v
							Tetrahydrofuran	218 ppb v/v
							Toluene	218 ppb v/v
							Toluene Range	200 ppb v/v
							trans-1,2-Dichloroethene	200 ppb v/v
							trans-1,3-Dichloropropene	220 ppb v/v
							Trichloroethene	218 ppb v/v
							Trichlorofluoromethane	200 ppb v/v
							TVOC as Toluene	200 ppb v/v
							Undecane	200 ppb v/v
							Vinyl acetate	220 ppb v/v
							Vinyl bromide	178 ppb v/v
							Vinyl chloride	200 ppb v/v
.MSCORPCALSKML_00006	12/20/13	Linde, Lot 14004443			(Purchased Reagent)		1,1,1-Trichloroethane	1 ppm v/v
							1,1,2,2-Tetrachloroethane	1.1 ppm v/v
							1,1,2-Trichloro-1,2,2-trifluor oethane	1 ppm v/v
							1,1,2-Trichloroethane	1.09 ppm v/v
							1,1-Dichloroethane	1 ppm v/v
							1,1-Dichloroethene	1 ppm v/v
							1,2,3-Trichlorobenzene	1.09 ppm v/v
							1,2,3-Trichloropropane	1 ppm v/v
							1,2,4-Trichlorobenzene	1.1 ppm v/v
							1,2,4-Trimethylbenzene	1.08 ppm v/v
							1,2-Dichloro-1,1,2,2-tetrafluo roethane	1 ppm v/v
							1,2-Dichlorobenzene	1.09 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							1,2-Dichloroethane	1.08 ppm v/v
							1,2-Dichloropropane	1.08 ppm v/v
							1,3,5-Trimethylbenzene	1.1 ppm v/v
							1,3-Dichlorobenzene	1.1 ppm v/v
							1,4-Dichlorobenzene	1.09 ppm v/v
							1,4-Dioxane	1.09 ppm v/v
							2-Butanone (MEK)	1.08 ppm v/v
							2-Chlorotoluene	1.07 ppm v/v
							2-Hexanone	1.1 ppm v/v
							3-Chloro-1-propene	1.1 ppm v/v
							4-Ethyltoluene	1.08 ppm v/v
							4-Isopropyltoluene	1 ppm v/v
							4-Methyl-2-pentanone (MIBK)	1.08 ppm v/v
							Acetone	1 ppm v/v
							Acrolein	1 ppm v/v
							Acrylonitrile	1 ppm v/v
							Alpha Methyl Styrene	1.1 ppm v/v
							Benzene	1.06 ppm v/v
							Benzyl chloride	1.1 ppm v/v
							Bromoform	1.08 ppm v/v
							Bromomethane	1 ppm v/v
							Butadiene	1.06 ppm v/v
							Butane	1.07 ppm v/v
							C6 Range	1 ppm v/v
							Carbon disulfide	1 ppm v/v
							Carbon tetrachloride	1.08 ppm v/v
							Chlorobenzene	1.1 ppm v/v
							Chlorodibromomethane	1.1 ppm v/v
							Chlorodifluoromethane	1.06 ppm v/v
							Chloroethane	1 ppm v/v
							Chloroform	1 ppm v/v
							Chloromethane	1 ppm v/v
							cis-1,2-Dichloroethene	1.06 ppm v/v
							cis-1,3-Dichloropropene	1 ppm v/v
							Cyclohexane	1.07 ppm v/v
							Dibromomethane	1.08 ppm v/v
							Dichlorobromomethane	1.09 ppm v/v
							Dichlorodifluoromethane	1 ppm v/v
							Dodecane	1 ppm v/v
							Ethyl acetate	1 ppm v/v
							Ethyl ether	1 ppm v/v
							Ethylbenzene	1.09 ppm v/v
							Ethylene Dibromide	1.08 ppm v/v
							Hexachlorobutadiene	1.1 ppm v/v
							Hexane	1 ppm v/v
							Isooctane	1 ppm v/v
							Isopropyl alcohol	1.13 ppm v/v
							Isopropylbenzene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							m-Xylene & p-Xylene	2.16 ppm v/v
							Methyl methacrylate	1.06 ppm v/v
							Methyl-t-Butyl Ether (MTBE)	1.07 ppm v/v
							Methylene Chloride	1.1 ppm v/v
							n-Butylbenzene	1.06 ppm v/v
							n-Decane	1.09 ppm v/v
							n-Heptane	1.09 ppm v/v
							n-Nonane	1 ppm v/v
							n-Octane	1.07 ppm v/v
							N-Propylbenzene	1 ppm v/v
							Naphthalene	1.1 ppm v/v
							o-Xylene	1.1 ppm v/v
							PCE Range	1 ppm v/v
							Pentane	1 ppm v/v
							Propene	1.14 ppm v/v
							sec-Butylbenzene	1 ppm v/v
							Styrene	1.1 ppm v/v
							tert-Butylbenzene	1.08 ppm v/v
							Tetrachloroethene	1 ppm v/v
							Tetrahydrofuran	1.09 ppm v/v
							Toluene	1.09 ppm v/v
							Toluene Range	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							trans-1,3-Dichloropropene	1.1 ppm v/v
							Trichloroethene	1.09 ppm v/v
							Trichlorofluoromethane	1 ppm v/v
							TVOC as Toluene	1 ppm v/v
							Undecane	1 ppm v/v
							Vinyl acetate	1.1 ppm v/v
							Vinyl bromide	0.89 ppm v/v
							Vinyl chloride	1 ppm v/v
MSCORPSPK100_00079	03/19/13	01/20/12	N2, Lot 14-400114194-1	30 psi absolute	MSCORLCSSTKLL_00003	3 psi absolute	1,1-Dichloroethene	100 ppb v/v
							Benzene	100 ppb v/v
							Chloroform	100 ppb v/v
							cis-1,2-Dichloroethene	100 ppb v/v
							Methyl-t-Butyl Ether (MTBE)	100 ppb v/v
							Tetrachloroethene	100 ppb v/v
							Toluene	100 ppb v/v
							trans-1,2-Dichloroethene	100 ppb v/v
							Trichloroethene	100 ppb v/v
							Vinyl chloride	100 ppb v/v
.MSCORLCSSTKLL_00003	12/20/13		Linde, Lot RECERT		(Purchased Reagent)		1,1-Dichloroethene	1 ppm v/v
							Benzene	1 ppm v/v
							Chloroform	1 ppm v/v
							cis-1,2-Dichloroethene	1 ppm v/v
							Methyl-t-Butyl Ether (MTBE)	1 ppm v/v
							Tetrachloroethene	1 ppm v/v

REAGENT TRACEABILITY SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Toluene	1 ppm v/v
							trans-1,2-Dichloroethene	1 ppm v/v
							Trichloroethene	1 ppm v/v
							Vinyl chloride	1 ppm v/v
MSISSTOCK_00009	10/03/13	Linde, Lot 1232175			(Purchased Reagent)		1,2-Dichloroethane-d4 (Surr)	250 ppb v/v
							1,4-Difluorobenzene	250 ppb v/v
							4-Bromofluorobenzene (Surr)	250 ppb v/v
							Chlorobenzene-d5 (IS)	250 ppb v/v
							Chlorobromomethane (IS)	250 ppb v/v
							Toluene-d8 (Surr)	250 ppb v/v

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:47905886 -007
PO#: 2494717
ITEM #: T105-221
DATE: 12Oct2012

PRODUCT EXPIRATION: 12Oct2015

LOT # : 285PLU2SPC03L

PURE MATERIAL: CARBON DIOXIDE CAS# 124-38-9

GRADE: BONE DRY

PURITY: 99.8%

19831
ID: GCCO2TCDCAL 00002
Desc: FG CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
FG CO2 STOCK CCV

19832
ID: GCCO2FIDCAL 00002
Desc: FG CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
FG CO2 STOCK CCV

19834
ID: RSKCO2TCDCAL 00001
Desc: RSK CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
RSK CO2 STOCK CCV

19833
ID: RSKCO2FIDCAL 00001
Desc: RSK CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
RSK CO2 STOCK CCV

Rec 10/16/12
EJ

MANUFACTURED DATE: 12Oct2012 SCOTTY SIZE: 221

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

Shipped From:
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CERTIFICATE OF ANALYSIS

AIR LIQUIDE C/O TEST AMERICA
3585 CADILLAC AVENUE
COSTA MESA CA 92626

PROJECT #: 01-35287-002
PO#: ALAS-60439
ITEM #: 0104105 221
DATE: 13Oct2010

PRODUCT EXPIRATION: 12Oct2012

SCOTT LOT#: 028504L

PURE MATERIAL: CARBON DIOXIDE CAS# 124-38-9

GRADE: BONE DRY

PURITY: 99.8%

Rec'd on 10/20/10 YZ
Element ID: LT01475

GCC02TCDCAL_00001

MANUFACTURED DATE: 13Oct2010 SCOTTY SIZE: 221

APPROVED BY: JAKE SENKOW

TestAmerica Los Angeles

FG/RSK CARBON DIOXIDE STOCK CCV

Calibration Standard Record

LT01475

Description:	FG/RSK CARBON DIOXIDE STOCK CCV	Received:	10/20/10
Standard Type:	Calibration Standard	Opened:	10/20/10
Vendor:	Scott Specialty	Prepared:	10/20/10
Vendor Lot Number:	028504L	Expires:	10/12/12
Solvent:	NA	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GC Volatiles
Vials:	1	Last Edit:	10/20/10 06:20 by yz

Analyte	CAS Number	Concentration	Units
Carbon dioxide	124-38-9	998000	ppmv

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

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CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:47905886 -007
PO#: 2494717
ITEM #: T105-221
DATE: 12Oct2012

PRODUCT EXPIRATION: 12Oct2015

LOT # : 285PLU2SPC03L

PURE MATERIAL: CARBON DIOXIDE CAS# 124-38-9

GRADE: BONE DRY

PURITY: 99.8%

19831
ID: GCCO2TCDCAL 00002
Desc: FG CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
FG CO2 STOCK CCV

19832
ID: GCCO2FIDCAL 00002
Desc: FG CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
FG CO2 STOCK CCV

19834
ID: RSKCO2TCDCAL 00001
Desc: RSK CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
RSK CO2 STOCK CCV

19833
ID: RSKCO2FIDCAL 00001
Desc: RSK CO2 STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
RSK CO2 STOCK CCV

Rec 10/16/12

MANUFACTURED DATE: 12Oct2012 SCOTTY SIZE: 221

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

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CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:47905886 -008
PO#: 2494717
ITEM #: T50-221
DATE: 12Oct2012

ANALYTICAL ACCURACY: +/-2%
PRODUCT EXPIRATION: 12Oct2015

LOT # : 285PLU2SPC02L

COMPONENT	REQUESTED GAS CONC MOLES		ANALYSIS (MOLES)	
CARBON MONOXIDE	4.5	%	4.51	%
NITROGEN		BALANCE		BALANCE

19829
ID: GCCOCAL 00002
Desc: FG 4.51% CO STOCK CCV
Exp: 10/12/2015 Prpd/Rcvd: 10/16/2012
Sol: Prpd: iancue Op: 10/16/2012
FG 4.51% CO STOCK CCV

Rec. 10/16/12
EJ

MANUFACTURED DATE: 12Oct2012 SCOTTY SIZE: 221

APPROVED BY. JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

Shipped From:
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CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:44495495 -003
PO#: 2455256
ITEM #: T114-14
DATE: 29Dec2011

PRODUCT EXPIRATION: 28Dec2013

SCOTT LOT#: 362PLU1SPC09L

PURE MATERIAL: ETHYLENE CAS# 74-85-1

GRADE: C. P.

PURITY: 99.5%

IMPURITY	MAXIMUM CONCENTRATIONS
O2	300 PPM
N2	1500 PPM
CO2	30 PPM
OHC	1000 PPM
H2O	50 PPM

GCETHENECAL12_00001

Rec 01/03/12

MANUFACTURED DATE: 29Dec2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCETHENECAL12_00001

Reagent ID: GCETHENECAL12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.5% ETHENE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	362PLU1SPC09L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-114 --14
Container(s):	3346		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
Ethylene					995000.0000	ppm v/v

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

Shipped From:
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PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:44495495 -003
PO#: 2455256
ITEM #: T114-14
DATE: 29Dec2011

PRODUCT EXPIRATION: 28Dec2013

SCOTT LOT#: 362PLU1SPC09L

PURE MATERIAL: ETHYLENE CAS# 74-85-1

GRADE: C. P.

PURITY: 99.5%

IMPURITY	MAXIMUM CONCENTRATIONS
O2	300 PPM
N2	1500 PPM
CO2	30 PPM
OHC	1000 PPM
H2O	50 PPM

GCETHENECAL12_00001

Rec 01/03/12

MANUFACTURED DATE: 29Dec2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCETHENECAL12_00001

Reagent ID: GCETHENECAL12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.5% ETHENE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	362PLU1SPC09L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-114 --14
Container(s):	3346		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
Ethylene					995000.0000	ppm v/v

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

EZM. ID # LU00810

Shipped From:
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PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:41974568 -003
PO#: 2423340
ITEM #: T108-105
DATE: 01Jun2011

PRODUCT EXPIRATION: 31May2013

SCOTT LOT#: 151PLU1SPC01C

PURE MATERIAL: HYDROGEN CAS# 1333-74-0

GRADE: ZERO GAS

PURITY: 99.99%

Rec 06/08/11

TALS: GCHYDSPKLCS-00001

MANUFACTURED DATE: 01Jun2011 SCOTTY SIZE: 105

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:44495495 -001
PO#: 2455256
ITEM #: T109-14
DATE: 29Dec2011

PRODUCT EXPIRATION: 28Dec2013

SCOTT LOT#: 353PLU1SPC13L

PURE MATERIAL: METHANE CAS# 74-82-8

GRADE: C. P.

PURITY: 99.0%

GCMETHTCDCAL12_00001
GCMETHFIDCAL12_00001

Rec 01/03/12

MANUFACTURED DATE: 29Dec2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMETHTCDCA12_00001

Reagent ID: GCMETHTCDCA12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.0% METHANE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	353PLU1SPC13L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-109--14
Container(s):	3343		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
CH4-TCD					990000.0000	ppm v/v

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMETHFIDCA12_00001

Reagent ID: GCMETHFIDCA12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.0% METHANE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	353PLU1SPC13L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-109--14
Container(s):	3342		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
CH4-FID					990000.0000	ppm v/v

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

Shipped From:
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CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:44495495 -001
PO#: 2455256
ITEM #: T109-14
DATE: 29Dec2011

PRODUCT EXPIRATION: 28Dec2013

SCOTT LOT#: 353PLU1SPC13L

PURE MATERIAL: METHANE CAS# 74-82-8

GRADE: C. P.

PURITY: 99.0%

GCMETHTCDCAL12-00001
GCMETHFIDCAL12-00001

Rec 01/03/12

MANUFACTURED DATE: 29Dec2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMETHTCDCA12_00001

Reagent ID: GCMETHTCDCA12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.0% METHANE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	353PLU1SPC13L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-109--14
Container(s):	3343		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
CH4-TCD					990000.0000	ppm v/v

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

GCMETHFIDCA12_00001

Reagent ID: GCMETHFIDCA12_00001

Type:	ASTD	Expiration Date:	12/28/2013
Description:	FG 99.0% METHANE STOCK CCV	Laboratory:	TestAmerica Los Angeles
No. of Bottles:	1	Prepared By:	Iancu, Elena
Storage Location:	Reagent Racks	Vendor:	AIR LIQUIDE
Reagent Volume:	14.000 L	Vendor Lot #:	353PLU1SPC13L
Creation Date:	01/03/2012	Vendor Cat #:	01-04-109--14
Container(s):	3342		
Comment:			

Reagent Analyte Information

Analyte	Source ID	Source Expiration Date	Source Conc.	Source Conc. Units	Final Conc.	Final Conc. Units
CH4-FID					990000.0000	ppm v/v

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

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PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA LOS ANGELES
ELENA IANCU
3585 CADILLAC AVENUE, SUI
COSTA MESA CA 92626
US

DOCUMENT#:45492222 -001
PO#: 2467539
ITEM #: T102-221
DATE: 22Mar2012

PRODUCT EXPIRATION: 22Mar2014

SCOTT LOT#: 080PLU2SPC05L

PURE MATERIAL: NITROGEN CAS# 7727-37-9

GRADE: HIGH PURITY

PURITY: 99.99%

7793
ID: GCNITROGENLCS_00001
Desc: FG NITROGEN LCS 100% - STOCK
Exp: 3/22/2014 Prpd/Rcvd: 3/28/2012
Sol: Prpd: iancue Op: 3/28/2012
FG NITROGEN LCS 100% - STOCK

Rec 03/28/12
EJ

MANUFACTURED DATE: 22Mar2012 SCOTTY SIZE: 221

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

LU00135 ✓

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:40383358 -001
PO#: 2401534
ITEM #: T101-14
DATE: 18Jan2011

PRODUCT EXPIRATION: 17Jan2013

SCOTT LOT#: 211PLU0SPC09L

PURE MATERIAL: OXYGEN CAS# 7782-44-7

GRADE: ZERO GAS

PURITY: 99.6%

IMPURITY	MAXIMUM CONCENTRATIONS
THC	0.5 PPM

Rec 1/24/11
LT

MANUFACTURED DATE: 18Jan2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott™

Dgs 9/19/11

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:43100658 -001
PO#: 2438414
ITEM #: T101-14
DATE: 12Sep2011

PRODUCT EXPIRATION: 11Sep2013

SCOTT LOT#: 181PLU1SPC01L

PURE MATERIAL: OXYGEN

CAS# 7782-44-7

GRADE: ZERO GAS

PURITY: 99.6%

Element ID # L401319
Rec'd by K on 9/19/11

IMPURITY	MAXIMUM CONCENTRATIONS
THC	0.5 PPM

MANUFACTURED DATE: 12Sep2011

SCOTTY SIZE: 14

APPROVED BY: JAKE SENKOW

TestAmerica Los Angeles

FG OXYGEN STOCK CCV

Calibration Standard Record

LU01319

Description:	FG OXYGEN STOCK CCV	Received:	09/19/11
Standard Type:	Calibration Standard	Opened:	N/A
Vendor:	AIR LIQUIDE	Prepared:	09/19/11
Vendor Lot Number:	181PLU1SPC01L	Expires:	09/11/13
Solvent:	NA	Prepared By:	** Vendor **
Final Volume (mls):	1	Department:	GC Volatiles
Vials:	1	Last Edit:	09/23/11 10:13 by EI

Analyte	CAS Number	Concentration	Units
Oxygen	7782-44-7	996000	ppmv

AIR LIQUIDE Air Liquide America Specialty Gases LLC Scott

ELM. ID # LL01004

DGF 7/13/11

Shipped From:
6141 EASTON ROAD, BLDG 1 PO BOX 310
PLUMSTEADVILLE PA 18949-0310
Phone: 800-331-4953 Fax: 215-766-7226

CERTIFICATE OF ANALYSIS

TESTAMERICA

3585 CADILLAC AVE.SUITE A
COSTA MESA CA 92626
US

DOCUMENT#:42387592 -001
PO#: 2428734
ITEM #: T101-14
DATE: 05Jul2011

ANALYTICAL ACCURACY: +/-02%
PRODUCT EXPIRATION: 05Jul2013

FILL PRESSURE: 00240 PSIG
SCOTT LOT#: 104PLU1SPC06L

PURE MATERIAL: OXYGEN CAS# 7782-44-7

GRADE: ZERO GAS

PURITY: 99.6%

IMPURITY	MAXIMUM CONCENTRATIONS
THC	0.5 PPM

Rec 07/11/11
EJ

MANUFACTURED DATE: 05Jul2011 SCOTTY SIZE: 14

APPROVED BY: JAKE SENROW

THE LINDE GROUP

Linde

SHIPPED TO: Test America Inc.
3585 Cadillac Ave
Costa Mesa, CA 92626

PAGE: 1 of 4

RE-CERTIFIED

MS CORP CAL SKML-0006

CERTIFICATE OF ANALYSIS

AA

Sales#:	109734244	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2851950	**Cylinder # :**	CC-90855
Certification Date:	Dec-20-2012	**Cylinder Pressure:**	1700 psig
P.O.# :	2503707	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004443	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	3400 Liter
Expiration Date:	Dec-20-2013	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Propylene	115-07-1	1.00 ppm	1.14 ppm
Chlorodifluoromethane	75-45-6	1.00 ppm	1.06 ppm
Freon-12	75-71-8	1.00 ppm	1.02 ppm
Chloromethane	74-87-3	1.00 ppm	1.05 ppm
Freon-114	76-14-2	1.00 ppm	1.04 ppm
Vinyl Chloride	75-01-4	1.00 ppm	1.04 ppm
1,3-Butadiene	106-99-0	1.00 ppm	1.06 ppm
Methanol (No Stability Guarantee)	67-56-1	1.00 ppm	1.05 ppm
n-Butane	106-97-8	1.00 ppm	1.07 ppm
Bromomethane	74-83-9	1.00 ppm	1.03 ppm
Chloroethane	75-00-3	1.00 ppm	1.02 ppm
Vinyl Bromide	593-60-2	1.00 ppm	0.89 ppm
Acetonitrile	75-05-8	1.00 ppm	1.02 ppm
Acrolein (No Stability Guarantee)	107-02-8	1.00 ppm	0.98 ppm
Isopentane	78-78-4	1.00 ppm	1.02 ppm
Acetone	67-64-1	1.00 ppm	1.02 ppm
Freon-11	75-69-4	1.00 ppm	1.02 ppm
Isopropyl Alcohol	67-63-0	1.00 ppm	1.13 ppm
Acrylonitrile	107-13-1	1.00 ppm	1.01 ppm
n-Pentane	109-66-0	1.00 ppm	1.01 ppm
Ethyl Ether	60-29-7	1.00 ppm	1.01 ppm
1,1-Dichloroethene	75-35-4	1.00 ppm	1.02 ppm
Carbon Disulfide (No Stability Guarantee)	75-15-0	1.00 ppm	1.04 ppm
Methylene Chloride	75-09-2	1.00 ppm	1.10 ppm
Tert-Butanol	75-65-0	1.00 ppm	1.10 ppm
3-Chloropropene	107-05-1	1.00 ppm	1.10 ppm
Freon-113	76-13-1	1.00 ppm	1.00 ppm
Trans-1,2-Dichloroethene	156-60-5	1.00 ppm	1.00 ppm
1,1-Dichloroethane	75-34-3	1.00 ppm	1.04 ppm
Methyl Tert Butyl Ether	1634-04-4	1.00 ppm	1.07 ppm

THE LINDE GROUP

SHIPPED TO: Test America Inc.
3585 Cadillac Ave
Costa Mesa, CA 92626

CERTIFICATE OF ANALYSIS

Sales#:	109734244	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2851950	**Cylinder # :**	CC-90855
Certification Date:	Dec-20-2012	**Cylinder Pressure:**	1700 psig
P.O.# :	2503707	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004443	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	3400 Liter
Expiration Date:	Dec-20-2013	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Vinyl Acetate (No Stability Guarantee)	108-05-4	1.00 ppm	1.10 ppm
Methyl Ethyl Ketone	78-93-3	1.00 ppm	1.08 ppm
Cis-1,2-Dichloroethene	156-59-2	1.00 ppm	1.06 ppm
Hexane	110-54-3	1.00 ppm	1.04 ppm
Chloroform	67-66-3	1.00 ppm	1.00 ppm
Ethyl Acetate	141-78-6	1.00 ppm	1.00 ppm
Tetrahydrofuran	109-99-9	1.00 ppm	1.09 ppm
1,2-Dichloroethane	107-06-2	1.00 ppm	1.08 ppm
1,1,1-Trichloroethane	71-55-6	1.00 ppm	1.04 ppm
Benzene	71-43-2	1.00 ppm	1.06 ppm
1-Butanol (No Stability Guarantee)	71-36-3	1.00 ppm	1.10 ppm
Carbon Tetrachloride	56-23-5	1.00 ppm	1.08 ppm
Cyclohexane	110-82-7	1.00 ppm	1.07 ppm
Dibromomethane	74-95-3	1.00 ppm	1.08 ppm
1,2-Dichloropropane	78-87-5	1.00 ppm	1.08 ppm
Trichloroethylene	79-01-6	1.00 ppm	1.09 ppm
Bromodichloromethane	75-27-4	1.00 ppm	1.09 ppm
1,4-Dioxane	123-91-1	1.00 ppm	1.09 ppm
2,2,4-Trimethylpentane	540-84-1	1.00 ppm	1.05 ppm
Methyl Methacrylate	80-62-6	1.00 ppm	1.06 ppm
Heptane	142-82-5	1.00 ppm	1.09 ppm
Cis-1,3-Dichloropropene	10061-01-5	1.00 ppm	1.03 ppm
Methyl Isobutyl Ketone	108-10-1	1.00 ppm	1.08 ppm
Methylcyclohexane	108-87-2	1.00 ppm	1.08 ppm
Trans-1,3-Dichloropropene	10061-02-6	1.00 ppm	1.10 ppm
1,1,2-Trichloroethane	79-00-5	1.00 ppm	1.09 ppm
Toluene	108-88-3	1.00 ppm	1.09 ppm
Methyl Butyl Ketone	591-78-6	1.00 ppm	1.10 ppm
Dibromochloromethane	124-48-1	1.00 ppm	1.10 ppm
1,2-Dibromoethane	106-93-4	1.00 ppm	1.08 ppm

THE LINDE GROUP

SHIPPED TO: Test America Inc.
3585 Cadillac Ave
Costa Mesa, CA 92626

CERTIFICATE OF ANALYSIS

Sales#:	109734244	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2851950	**Cylinder # :**	CC-90855
Certification Date:	Dec-20-2012	**Cylinder Pressure:**	1700 psig
P.O.# :	2503707	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004443	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	3400 Liter
Expiration Date:	Dec-20-2013	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
n-Octane	111-65-9	1.00 ppm	1.07 ppm
Tetrachloroethylene	127-18-4	1.00 ppm	1.03 ppm
Chlorobenzene	108-90-7	1.00 ppm	1.10 ppm
Ethylbenzene	100-41-4	1.00 ppm	1.09 ppm
p-xylene	106-42-3	1.00 ppm	1.08 ppm
m-xylene	108-38-3	1.00 ppm	1.08 ppm
Bromoform	75-25-2	1.00 ppm	1.08 ppm
Styrene	100-42-5	1.00 ppm	1.10 ppm
o-xylene	95-47-6	1.00 ppm	1.10 ppm
1,1,2,2-Tetrachloroethane	79-34-5	1.00 ppm	1.10 ppm
1,2,3-Trichloropropane	96-18-4	1.00 ppm	1.05 ppm
Nonane	111-84-2	1.00 ppm	1.05 ppm
Cumene	98-82-8	1.00 ppm	1.03 ppm
2-Chlorotoluene	95-49-8	1.00 ppm	1.07 ppm
n-Propylbenzene	103-65-1	1.00 ppm	1.03 ppm
4-Ethyltoluene	622-96-8	1.00 ppm	1.08 ppm
1,3,5-Trimethylbenzene	108-67-8	1.00 ppm	1.10 ppm
Alpha-Methyl Styrene (No Stability Guarantee)	98-83-9	1.00 ppm	1.04 ppm
Tert-Butyl Benzene	98-06-6	1.00 ppm	1.08 ppm
1,2,4-Trimethylbenzene	95-63-6	1.00 ppm	1.08 ppm
1,3-Dichlorobenzene	541-73-1	1.00 ppm	1.10 ppm
Benzyl Chloride (No Stability Guarantee)	100-44-7	1.00 ppm	1.10 ppm
n-Decane	124-18-5	1.00 ppm	1.09 ppm
1,4-Dichlorobenzene	106-46-7	1.00 ppm	1.09 ppm
sec-Butylbenzene	135-98-8	1.00 ppm	1.05 ppm
4-Isopropyltoluene	99-87-6	1.00 ppm	1.05 ppm
1,2-Dichlorobenzene	95-50-1	1.00 ppm	1.09 ppm
n-Butylbenzene	104-51-8	1.00 ppm	1.06 ppm

THE LINDE GROUP

SHIPPED TO: Test America Inc.
3585 Cadillac Ave
Costa Mesa, CA 92626

CERTIFICATE OF ANALYSIS

Sales#:	109734244	**Cylinder Size:**	2A (8" X 47.5")
Production#:	2851950	**Cylinder # :**	CC-90855
Certification Date:	Dec-20-2012	**Cylinder Pressure:**	1700 psig
P.O.# :	2503707	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	14004443	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	3400 Liter
Expiration Date:	Dec-20-2013	**Blend Tolerance:**	10% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	5% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
n-Undecane	1120-21-4	1.00 ppm	1.02 ppm
1,2,4-Trichlorobenzene	120-82-1	1.00 ppm	1.10 ppm
Naphthalene (No Stability Guarantee)	91-20-3	1.00 ppm	1.10 ppm
n-Dodecane	112-40-3	1.00 ppm	0.97 ppm
1,2,3-Trichlorobenzene	87-61-6	1.00 ppm	1.09 ppm
Hexachloro-1,3-Butadiene	87-68-3	1.00 ppm	1.10 ppm
Nitrogen	7727-37-9	Balance	Balance

ANALYST: Lou Lorenzetti

DATE: Dec-20-2012

THE LINDE GROUP Linde

SHIPPED TO: Test America Inc
3585 Cadillac Ave.
Costa Mesa, CA 92626
MSISSTOCK_00009

PAGE: 1 of 1

AA 10-12-12
~~MSISSTO~~ ~~MSISSTOCK~~ .009

CERTIFICATE OF ANALYSIS

Sales#:	109499227	**Cylinder Size:**	2A (8" X 47.5")
Production#:	1232175	**Cylinder # :**	CC-114048
Certification Date:	Oct-03-2012	**Cylinder Pressure:**	2000 psig
P.O.# :	2492969	**Cylinder Valve:**	CGA 350 / Steel
Blend Type:	CERTIFIED	**Cylinder Volume:**	29.5 Liter
Material#:	24086333	**Cylinder Material:**	Aluminum
Traceability:	NIST by weight	**Gas Volume:**	4000 Liter
Expiration Date:	Oct-03-2013	**Blend Tolerance:**	20% Relative
Do NOT use under:	150 psig	**Analytical Accuracy:**	10% Relative

COMPONENT	CAS NUMBER	REQUESTED CONC	CERTIFIED CONC
Bromochloromethane	74-97-5	250 ppb	258 ppb
1,2-Dichloroethane-d4	17060-07-0	250 ppb	260 ppb
1,4-Difluorobenzene	540-36-3	250 ppb	264 ppb
Toluene-d8	2037-26-5	250 ppb	267 ppb
Chlorobenzene-d5	3114-55-4	250 ppb	265 ppb
4-Bromofluorobenzene	460-00-4	250 ppb	263 ppb
Nitrogen	7727-37-9	Balance	Balance

AA
Recd: 10-12-12
Date Opened: 10-12-12

ANALYST: Lou Lorenzetti

DATE: Oct-03-2012

Certification Summary

Client: EA Engineering, Science, and Technology
Project/Site: 1434270 EPA 6, Jones Road RD

TestAmerica Job ID: 340-5923-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Costa Mesa	Arizona	State Program	9	AZ0727
TestAmerica Costa Mesa	Florida	NELAP	4	E87652
TestAmerica Costa Mesa	L-A-B	DoD ELAP		L2273
TestAmerica Costa Mesa	Louisiana	NELAP	6	01948
TestAmerica Costa Mesa	New York	NELAP	2	11851
TestAmerica Costa Mesa	Oregon	NELAP	10	CA200013
TestAmerica Costa Mesa	Utah	NELAP	8	CA000032012-1
TestAmerica Costa Mesa	Washington	State Program	10	C579

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 D1946

Fixed Gases in Air (GC) by Method D1946

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002661-004 1-28-2013

Lab ID: LCS 340-3877/4 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon Dioxide (TCD)	10.0	9.26	93	80-120	
Methane (TCD)	9.90	10.2	103	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002661-006 1-28-2013

Lab ID: LCS 340-3877/6 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon Dioxide (FID)	0.400	0.447	112	80-120	
Carbon monoxide	0.0451	0.0488	108	80-120	
Ethane	0.0495	0.0550	111	80-120	
Ethene	0.0495	0.0542	110	80-120	
Methane (FID)	0.0495	0.0533	108	80-120	
Nitrogen	20.0	20.6	103	80-120	
Oxygen	4.98	5.29	106	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002667-004 1-29-2013

Lab ID: LCS 340-3886/4 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon Dioxide (TCD)	10.0	9.25	93	80-120	
Methane (TCD)	9.90	10.2	103	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002667-006 1-29-2013

Lab ID: LCS 340-3886/6 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCS CONCENTRATION (% v/v)	LCS % REC	QC LIMITS REC	#
Carbon Dioxide (FID)	0.400	0.450	112	80-120	
Carbon monoxide	0.0451	0.0491	109	80-120	
Ethane	0.0495	0.0555	112	80-120	
Ethene	0.0495	0.0547	111	80-120	
Methane (FID)	0.0495	0.0538	109	80-120	
Nitrogen	20.0	20.8	104	80-120	
Oxygen	4.98	5.59	112	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002661-005 1-28-2013

Lab ID: LCSD 340-3877/5 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCSD CONCENTRATION (% v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon Dioxide (TCD)	10.0	9.27	93	0	20	80-120	
Methane (TCD)	9.90	10.2	103	0	20	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002661-007 1-28-2013

Lab ID: LCSD 340-3877/7 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCSD CONCENTRATION (% v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon Dioxide (FID)	0.400	0.446	111	0	20	80-120	
Carbon monoxide	0.0451	0.0484	107	1	20	80-120	
Ethane	0.0495	0.0547	110	1	20	80-120	
Ethene	0.0495	0.0540	109	0	20	80-120	
Methane (FID)	0.0495	0.0530	107	1	20	80-120	
Nitrogen	20.0	20.6	103	0	20	80-120	
Oxygen	4.98	5.33	107	1	20	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002667-005 1-29-2013

Lab ID: LCSD 340-3886/5 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCSD CONCENTRATION (% v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon Dioxide (TCD)	10.0	9.29	93	0	20	80-120	
Methane (TCD)	9.90	10.2	103	1	20	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM III
GC VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: 340-0002667-007 1-29-2013

Lab ID: LCSD 340-3886/7 Client ID:

COMPOUND	SPIKE ADDED (% v/v)	LCSD CONCENTRATION (% v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Carbon Dioxide (FID)	0.400	0.450	113	0	20	80-120	
Carbon monoxide	0.0451	0.0487	108	1	20	80-120	
Ethane	0.0495	0.0554	112	0	20	80-120	
Ethene	0.0495	0.0549	111	0	20	80-120	
Methane (FID)	0.0495	0.0533	108	1	20	80-120	
Nitrogen	20.0	20.7	104	0	20	80-120	
Oxygen	4.98	5.32	107	5	20	80-120	

Column to be used to flag recovery and RPD values

FORM III D1946

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab File ID: 340-0002661-008 1-28-2013 Lab Sample ID: MB 340-3877/8

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: GC8 Date Analyzed: 01/28/2013 12:56

GC Column: See SOP ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 340-3877/4	340-0002661 -004 1-28-2013 11;27;45 am -1.d	01/28/2013 11:27
	LCSD 340-3877/5	340-0002661 -005 1-28-2013 11;46;10 am -1.d	01/28/2013 11:46
	LCS 340-3877/6	340-0002661 -006 1-28-2013 12;05;01 pm -1.d	01/28/2013 12:05
	LCSD 340-3877/7	340-0002661 -007 1-28-2013 12;24;36 pm -1.d	01/28/2013 12:24
SVE-04	340-5923-1	340-0002661 -016 1-28-2013 3;49;49 pm -1.d	01/28/2013 15:49
1W-01D	340-5923-2	340-0002661 -017 1-28-2013 4;11;42 pm -1.d	01/28/2013 16:11
SVE-03	340-5923-3	340-0002661 -018 1-28-2013 4;30;41 pm -1.d	01/28/2013 16:30
SVE-02	340-5923-4	340-0002661 -019 1-28-2013 4;50;09 pm -1.d	01/28/2013 16:50
SVE-05	340-5923-5	340-0002661 -020 1-28-2013 5;08;09 pm -1.d	01/28/2013 17:08

FORM IV
GC VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab File ID: 340-0002667-008 1-29-2013 Lab Sample ID: MB 340-3886/8

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: GC8 Date Analyzed: 01/29/2013 12:57

GC Column: See SOP ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 340-3886/4	340-0002667 -004 1-29-2013 11;16;12 am -1.d	01/29/2013 11:16
	LCSD 340-3886/5	340-0002667 -005 1-29-2013 11;36;19 am -1.d	01/29/2013 11:36
	LCS 340-3886/6	340-0002667 -006 1-29-2013 11;56;36 am -1.d	01/29/2013 11:56
	LCSD 340-3886/7	340-0002667 -007 1-29-2013 12;28;48 pm -1.d	01/29/2013 12:28
SVE-01-1	340-5923-6	340-0002667 -012 1-29-2013 2;36;31 pm -1.d	01/29/2013 14:36
SVE-01-2	340-5923-7	340-0002667 -013 1-29-2013 2;55;10 pm -1.d	01/29/2013 14:55
SVE-01-3	340-5923-8	340-0002667 -014 1-29-2013 3;13;47 pm -1.d	01/29/2013 15:13
SVE-01-4	340-5923-9	340-0002667 -015 1-29-2013 3;33;09 pm -1.d	01/29/2013 15:33
SVE-01-5	340-5923-10	340-0002667 -016 1-29-2013 3;52;40 pm -1.d	01/29/2013 15:52

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-04 | Lab Sample ID: 340-5923-1

Matrix: Air | Lab File ID: 340-0002661-016 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 10:05

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 15:49

Soil Aliquot Vol: | Dilution Factor: 2.23

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.35		0.022	0.0045
630-08-0	Carbon monoxide	0.00082	J	0.0020	0.00045
74-84-0	Ethane	ND		0.0011	0.00027
74-85-1	Ethene	0.00064	J B	0.0011	0.00033
74-82-8	Methane (FID)	0.0012		0.00089	0.00027

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-016 1-28-2013 3;49;49 pm -1.d		
Lims ID:	340-5923-A-1	Client ID:	SVE-04
Inject. Date:	28-Jan-2013 15:49:49	Dil. Factor:	2.2300
Sample Type:	Client		
Sample ID:	340-0002661-016		
Misc. Info.:	12.19,27.20,1,0,,340-5923-A-1; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	16
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:10:51

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.127	4.083	0.044	7442	2303.3	
14 CO2-FID						
3	4.233	4.237	-0.004	6016937	1556.9	
5 Ethylene						
3	4.800	4.827	-0.027	16070	2.89	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.537	0.016	418044	97432	
9 Nitrogen						
1	7.887	7.897	-0.010	4023204	894575	
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.520	9.527	-0.007	15538	5.48	
7 Carbon monoxide						M
3	10.493	10.477	0.016	3339	3.69	M

QC Flag Legend

Processing Flags
1 - Missing Peaks

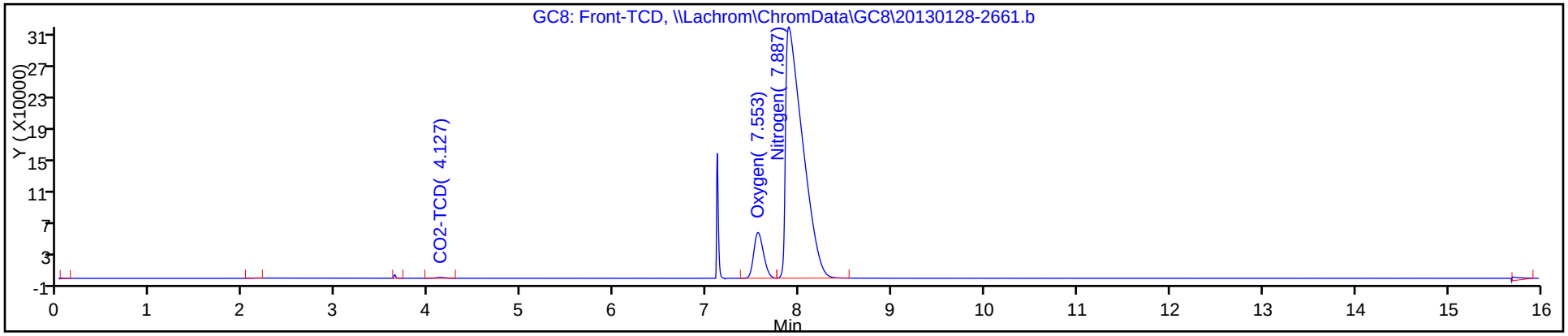
Review Flags
M - Manually Integrated

Report Date: 29-Jan-2013 11:19:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-016 1-28-2013 3;49;49 pm -1.d		
Injection Date:	28-Jan-2013 15:49:49	Limit Group:	ASTM D-1946
Client ID:	SVE-04	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



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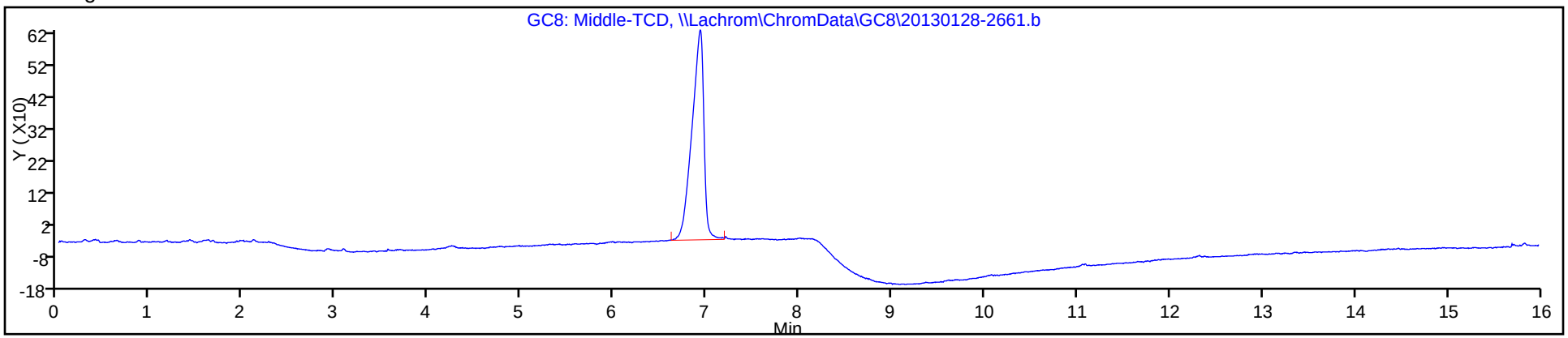
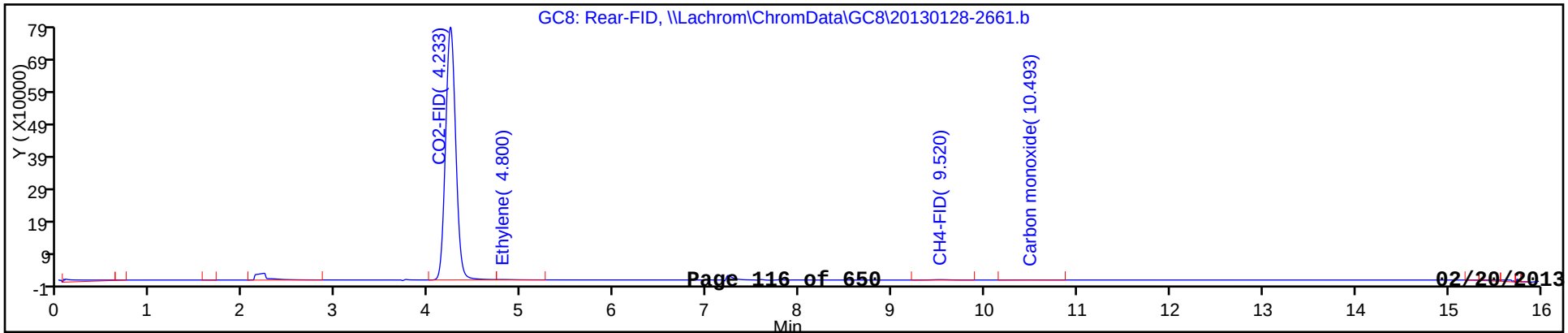


Y Scaling:



Report Date: 29-Jan-2013 11:19:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

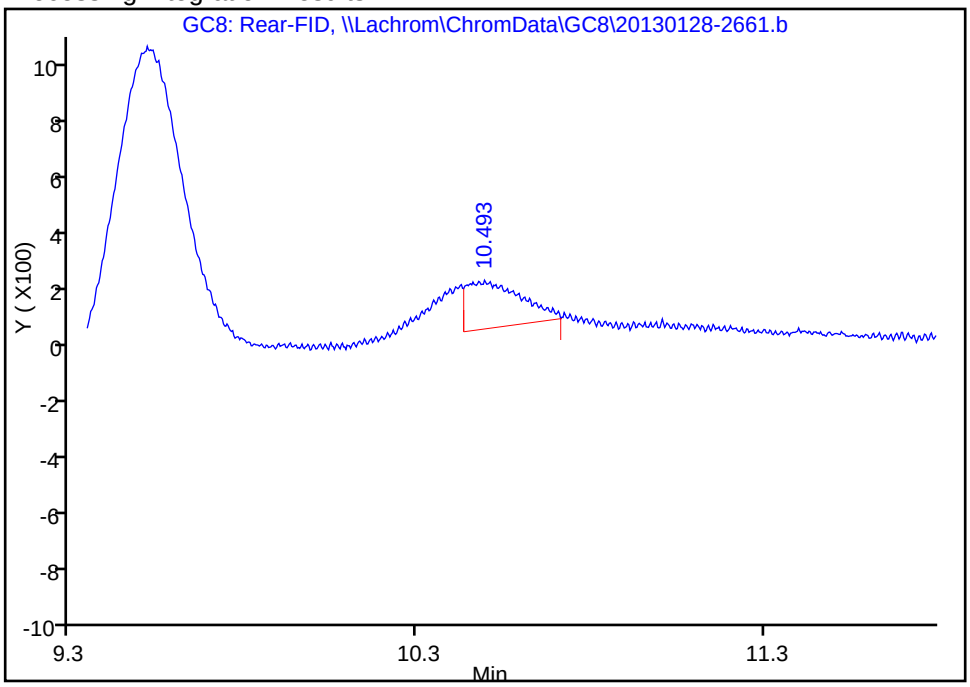
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-016 1-28-2013 3;49;49 pm -1.d		
Injection Date:	28-Jan-2013 15:49:49	Limit Group:	ASTM D-1946
Client ID:	SVE-04	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

7 Carbon monoxide, Signal: 1, Type: quant, RT: 10.48, Det: Rear-FID

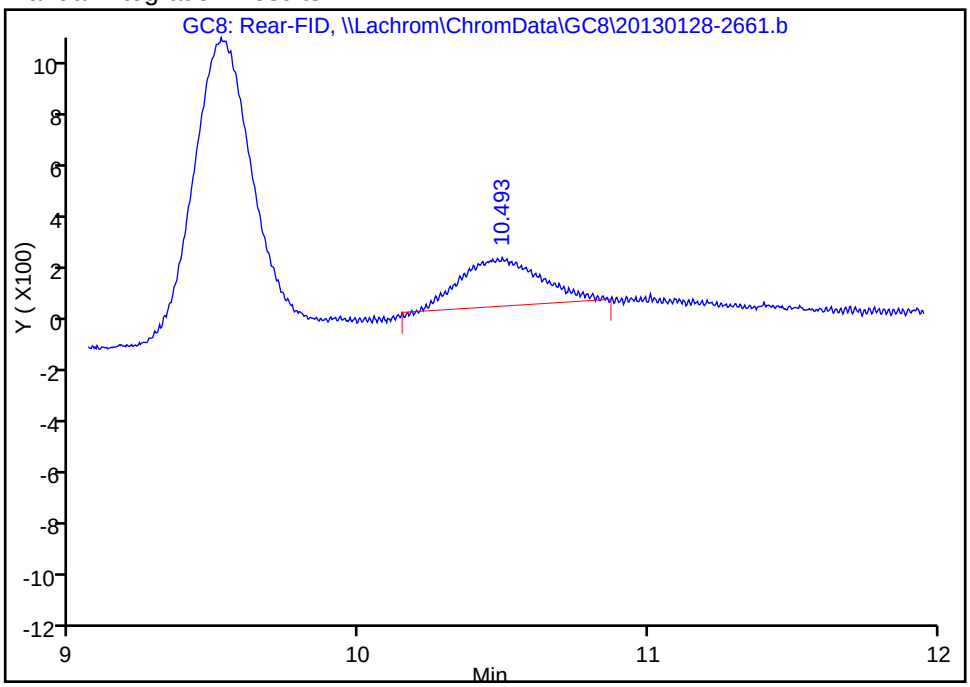
Processing Integration Results

RT: 10.49
Response: 1736
Amount: 3.280614



Manual Integration Results

RT: 10.49
Response: 3339
Amount: 3.685667



Reviewer: iancue, 29-Jan-2013 11:10:51
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-04 | Lab Sample ID: 340-5923-1

Matrix: Air | Lab File ID: 340-0002661-016 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 10:05

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 15:49

Soil Aliquot Vol: | Dilution Factor: 2.23

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	76		4.0	1.3
7782-44-7	Oxygen	22		0.45	0.11

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-016 1-28-2013 3;49;49 pm -1.d		
Lims ID:	340-5923-A-1	Client ID:	SVE-04
Inject. Date:	28-Jan-2013 15:49:49	Dil. Factor:	2.2300
Sample Type:	Client		
Sample ID:	340-0002661-016		
Misc. Info.:	12.19,27.20,1,0,,340-5923-A-1; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	16
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:10:51

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.127	4.083	0.044	7442	2303.3	
14 CO2-FID						
3	4.233	4.237	-0.004	6016937	1556.9	
5 Ethylene						
3	4.800	4.827	-0.027	16070	2.89	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.537	0.016	418044	97432	
9 Nitrogen						
1	7.887	7.897	-0.010	4023204	894575	
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.520	9.527	-0.007	15538	5.48	
7 Carbon monoxide						M
3	10.493	10.477	0.016	3339	3.69	M

QC Flag Legend

Processing Flags
1 - Missing Peaks

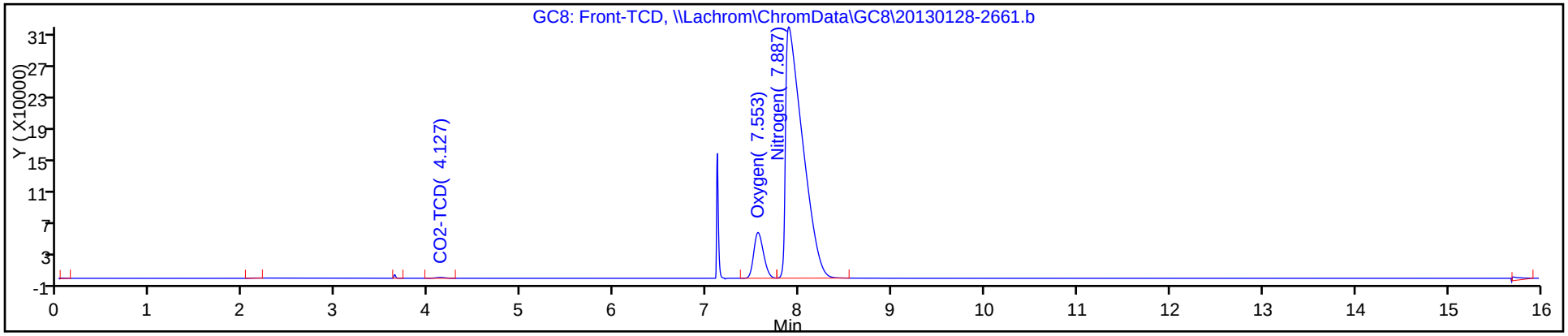
Review Flags
M - Manually Integrated

Report Date: 29-Jan-2013 11:19:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

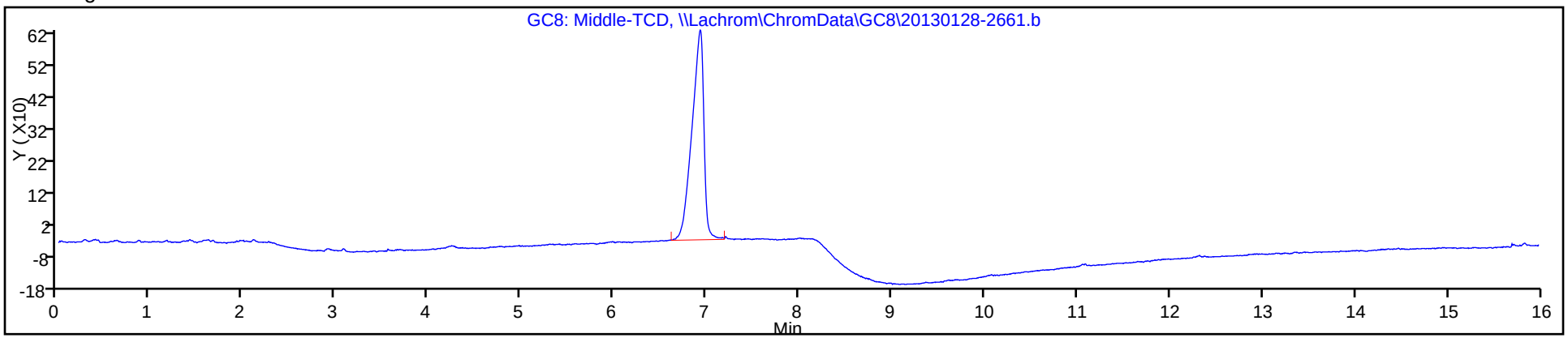
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-016 1-28-2013 3;49;49 pm -1.d		
Injection Date:	28-Jan-2013 15:49:49	Limit Group:	ASTM D-1946
Client ID:	SVE-04	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



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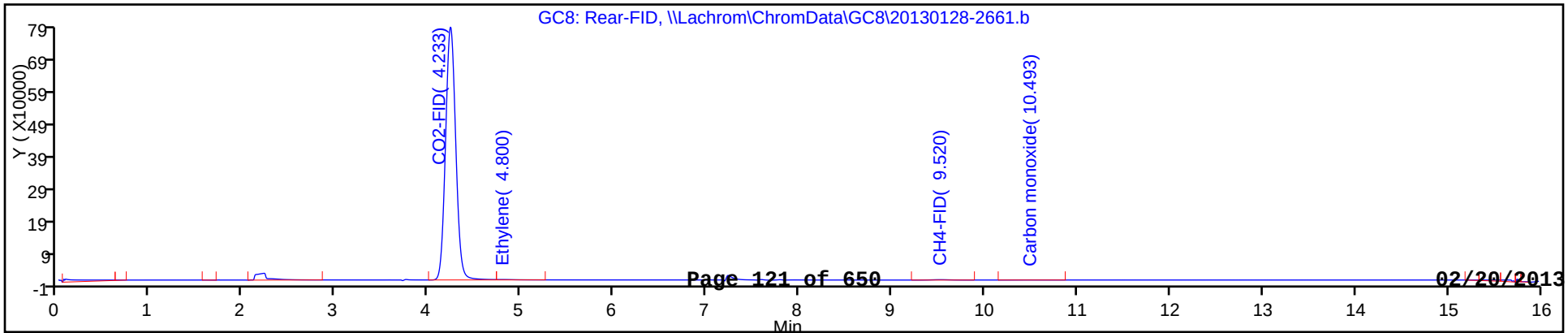


FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: 1W-01D | Lab Sample ID: 340-5923-2

Matrix: Air | Lab File ID: 340-0002661-017 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 14:25

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 16:11

Soil Aliquot Vol: | Dilution Factor: 1.98

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.51		0.020	0.0040
630-08-0	Carbon monoxide	0.00087	J	0.0018	0.00040
74-84-0	Ethane	ND		0.00099	0.00024
74-85-1	Ethene	0.00077	J B	0.00099	0.00030
74-82-8	Methane (FID)	0.0050		0.00079	0.00024

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d		
Lims ID:	340-5923-A-2	Client ID:	1W-01D
Inject. Date:	28-Jan-2013 16:11:42	Dil. Factor:	1.9800
Sample Type:	Client		
Sample ID:	340-0002661-017		
Misc. Info.:	12.56,24.91,1,0,,340-5923-A-2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	17
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:03:38

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.123	4.083	0.040	12407	3169.5	
14 CO2-FID						
3	4.230	4.237	-0.007	10047759	2587.9	
5 Ethylene						
3	4.777	4.827	-0.050	23360	3.87	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.550	7.537	0.013	465783	108619	M
9 Nitrogen						M
1	7.887	7.897	-0.010	3955186	879365	M
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.517	9.527	-0.010	90760	25.1	
7 Carbon monoxide						
3	10.483	10.477	0.006	6102	4.38	

QC Flag Legend

Processing Flags
1 - Missing Peaks

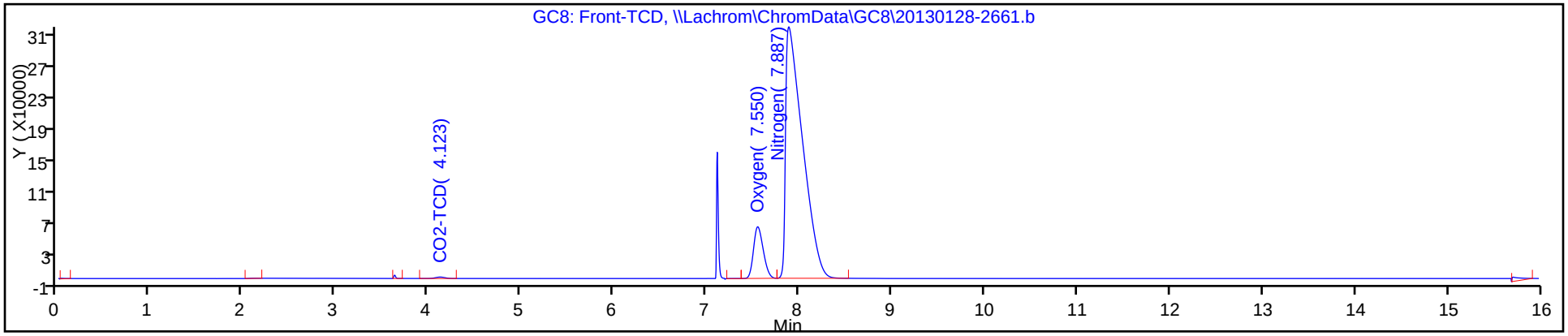
Review Flags
M - Manually Integrated

Report Date: 29-Jan-2013 11:19:39 Chrom Revision: 2.0 22-Oct-2012 16:30:48

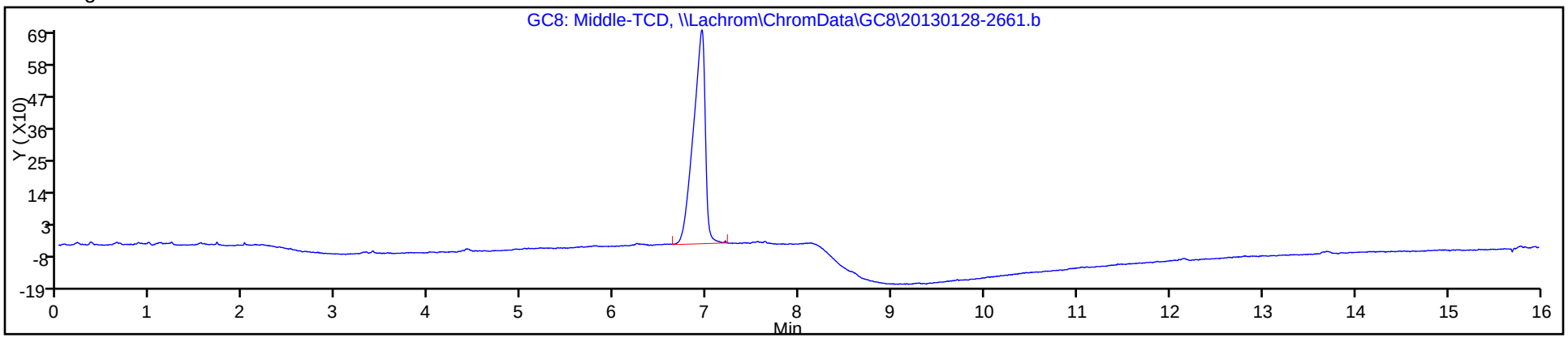
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d		
Injection Date:	28-Jan-2013 16:11:42	Limit Group:	ASTM D-1946
Client ID:	1W-01D	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	17
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

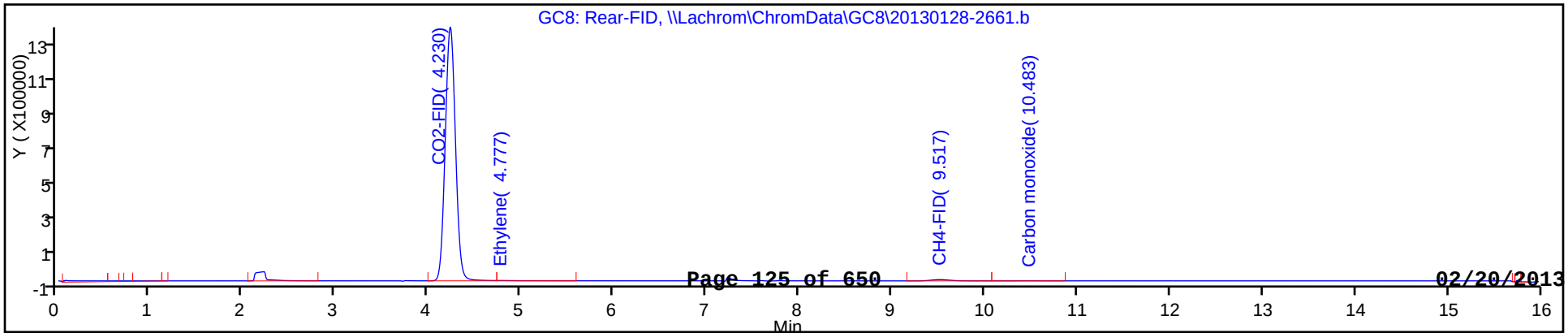
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: 1W-01D Lab Sample ID: 340-5923-2

Matrix: Air Lab File ID: 340-0002661-017 1-28-2013

Analysis Method: D1946 Date Collected: 01/23/2013 14:25

Sample wt/vol: 1(mL) Date Analyzed: 01/28/2013 16:11

Soil Aliquot Vol: Dilution Factor: 1.98

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3877 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	76		3.6	1.2
7782-44-7	Oxygen	22		0.40	0.099

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d		
Lims ID:	340-5923-A-2	Client ID:	1W-01D
Inject. Date:	28-Jan-2013 16:11:42	Dil. Factor:	1.9800
Sample Type:	Client		
Sample ID:	340-0002661-017		
Misc. Info.:	12.56,24.91,1,0,,340-5923-A-2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	17
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:03:38

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.123	4.083	0.040	12407	3169.5	
14 CO2-FID						
3	4.230	4.237	-0.007	10047759	2587.9	
5 Ethylene						
3	4.777	4.827	-0.050	23360	3.87	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.550	7.537	0.013	465783	108619	M
9 Nitrogen						M
1	7.887	7.897	-0.010	3955186	879365	M
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.517	9.527	-0.010	90760	25.1	
7 Carbon monoxide						
3	10.483	10.477	0.006	6102	4.38	

QC Flag Legend

Processing Flags
1 - Missing Peaks

Review Flags
M - Manually Integrated

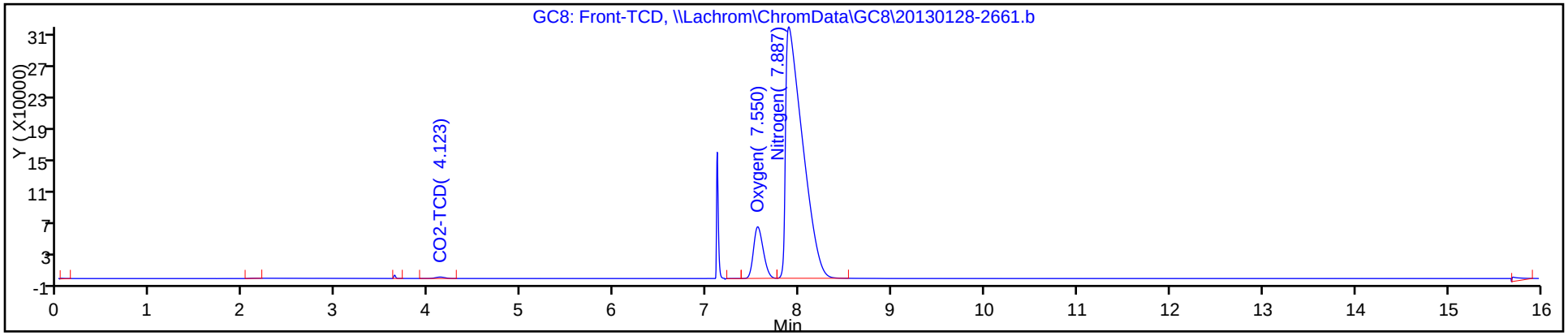
Report Date: 29-Jan-2013 11:19:39 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

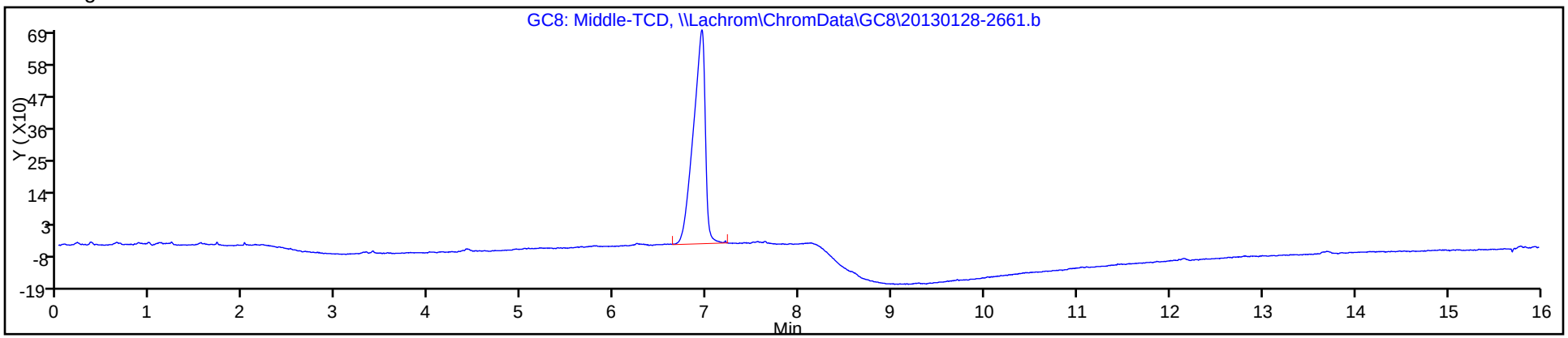
Data File: \\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d

Injection Date:	28-Jan-2013 16:11:42	Limit Group:	ASTM D-1946
Client ID:	1W-01D	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	17
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

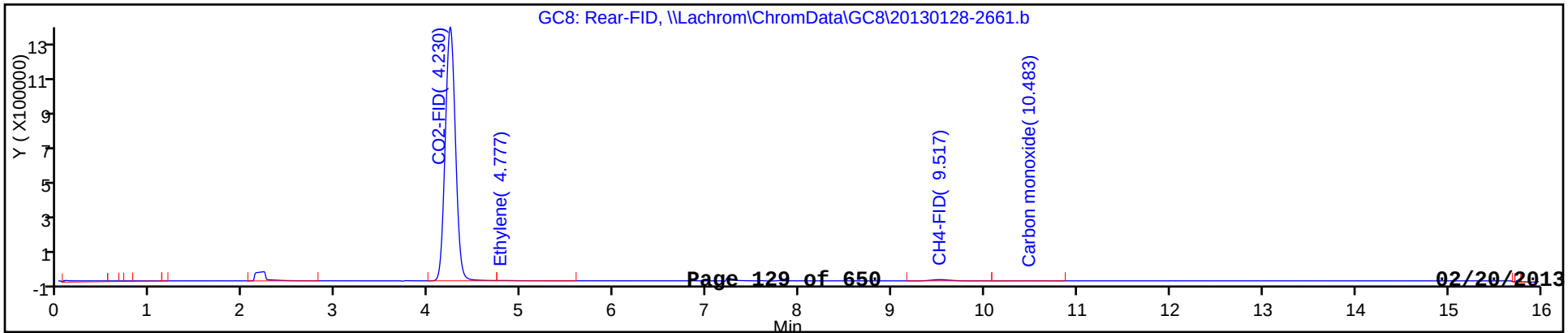
Y Scaling:



Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

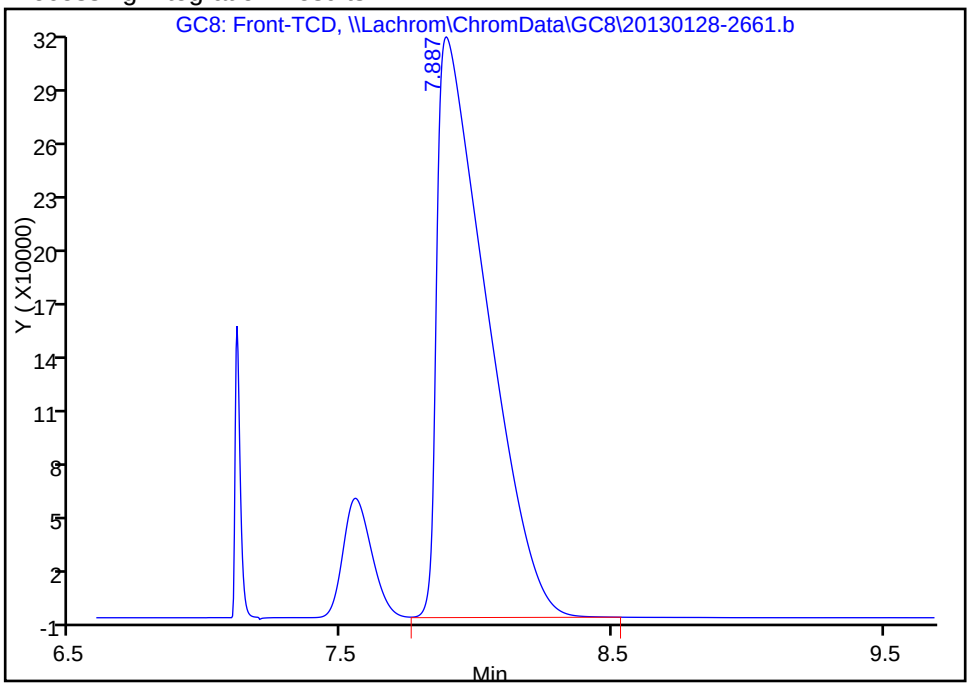
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d		
Injection Date:	28-Jan-2013 16:11:42	Limit Group:	ASTM D-1946
Client ID:	1W-01D	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	17
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.90, Det: Front-TCD

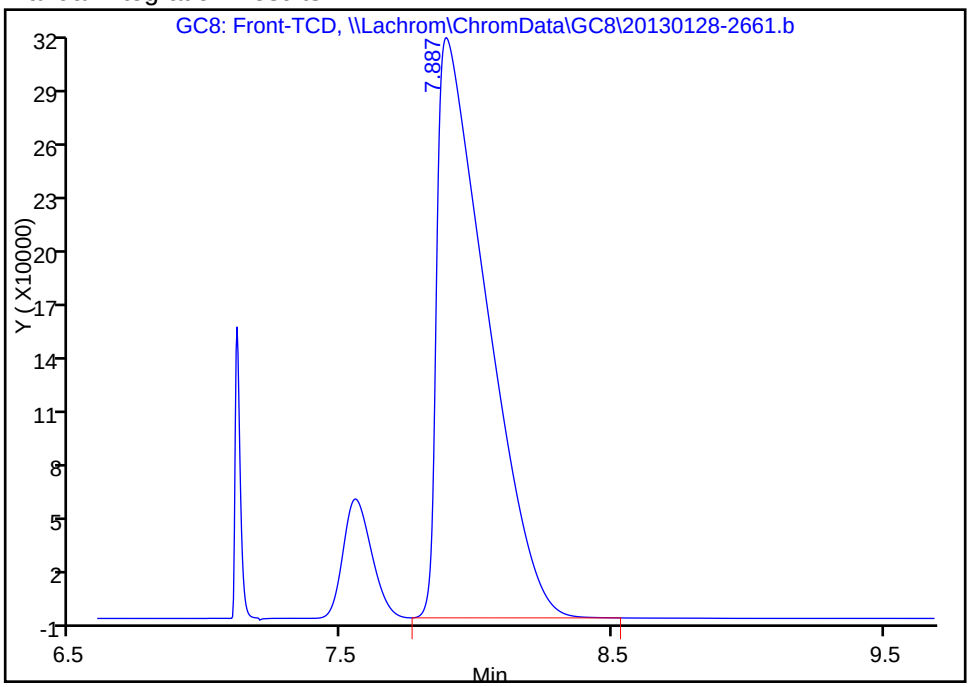
Processing Integration Results

RT: 7.89
Response: 3961940
Amount: 880875



Manual Integration Results

RT: 7.89
Response: 3955186
Amount: 879365



Reviewer: iancue, 29-Jan-2013 11:03:38
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Report Date: 29-Jan-2013 11:19:39 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

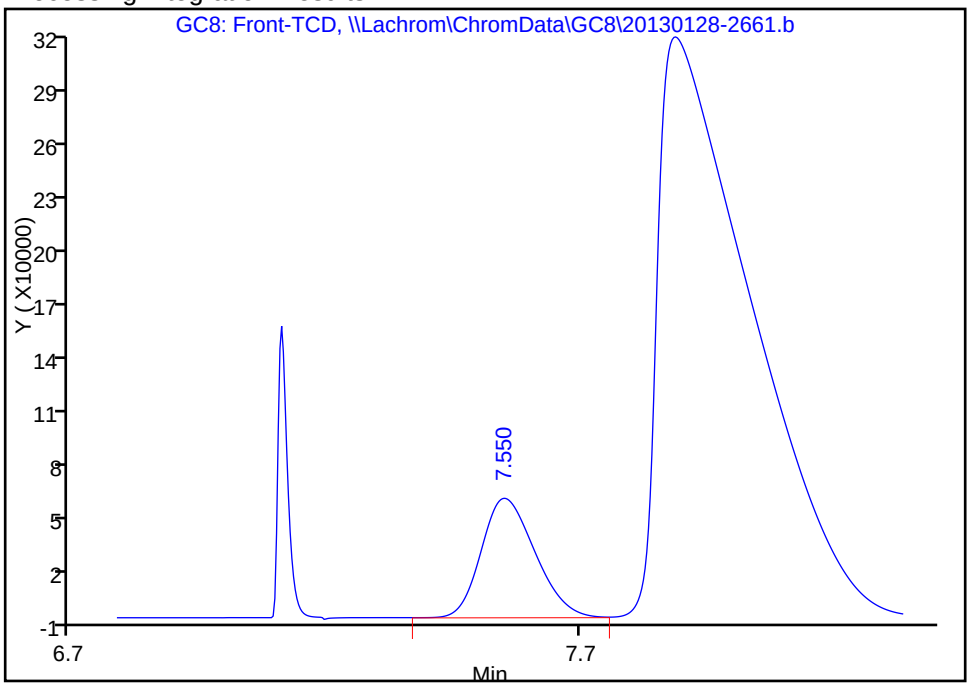
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-017 1-28-2013 4;11;42 pm -1.d		
Injection Date:	28-Jan-2013 16:11:42	Limit Group:	ASTM D-1946
Client ID:	1W-01D	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	17
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.54, Det: Front-TCD

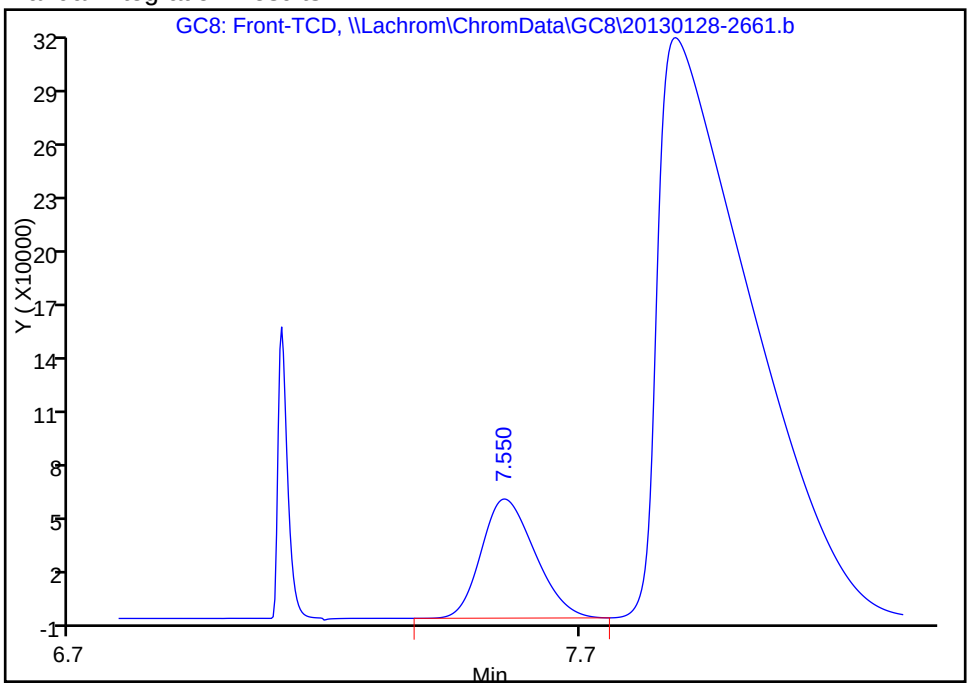
Processing Integration Results

RT: 7.55
Response: 470640
Amount: 109757



Manual Integration Results

RT: 7.55
Response: 465783
Amount: 108619



Reviewer: iancue, 29-Jan-2013 11:03:38
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-03 | Lab Sample ID: 340-5923-3

Matrix: Air | Lab File ID: 340-0002661-018 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 17:05

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 16:30

Soil Aliquot Vol: | Dilution Factor: 2.35

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.86		0.024	0.0047
630-08-0	Carbon monoxide	0.00089	J	0.0021	0.00047
74-84-0	Ethane	ND		0.0012	0.00028
74-85-1	Ethene	ND		0.0012	0.00035
74-82-8	Methane (FID)	0.00088	J	0.00094	0.00028

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Lims ID:	340-5923-A-3	Client ID:	SVE-03
Inject. Date:	28-Jan-2013 16:30:41	Dil. Factor:	2.3500
Sample Type:	Client		
Sample ID:	340-0002661-018		
Misc. Info.:	11.78,27.71,1,0,,340-5923-A-3; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	18
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:04:49

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.123	4.083	0.040	17619	4078.8	
14 CO2-FID						
3	4.233	4.237	-0.004	14263739	3666.2	
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.553	7.537	0.016	385394	89781	M
9 Nitrogen						M
1	7.883	7.897	-0.014	4031113	896343	M
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.523	9.527	-0.004	8841	3.74	
7 Carbon monoxide						
3	10.463	10.477	-0.014	3821	3.81	

QC Flag Legend

Processing Flags
1 - Missing Peaks

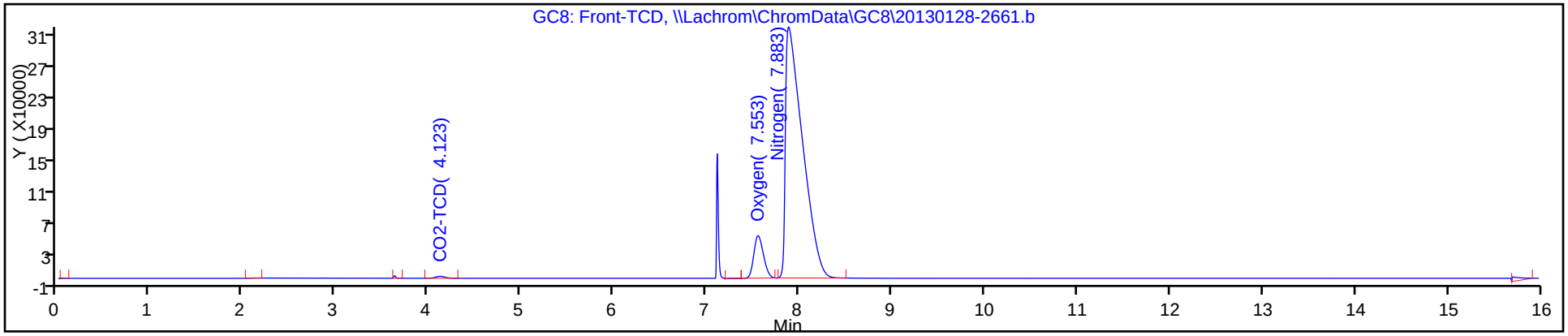
Review Flags
M - Manually Integrated

Report Date: 29-Jan-2013 11:19:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

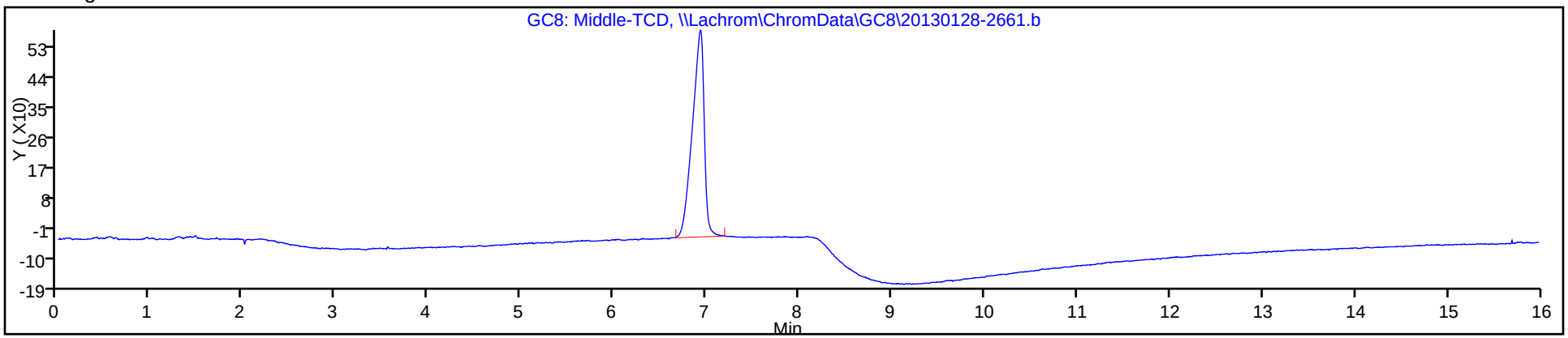
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Injection Date:	28-Jan-2013 16:30:41	Limit Group:	ASTM D-1946
Client ID:	SVE-03	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	18
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



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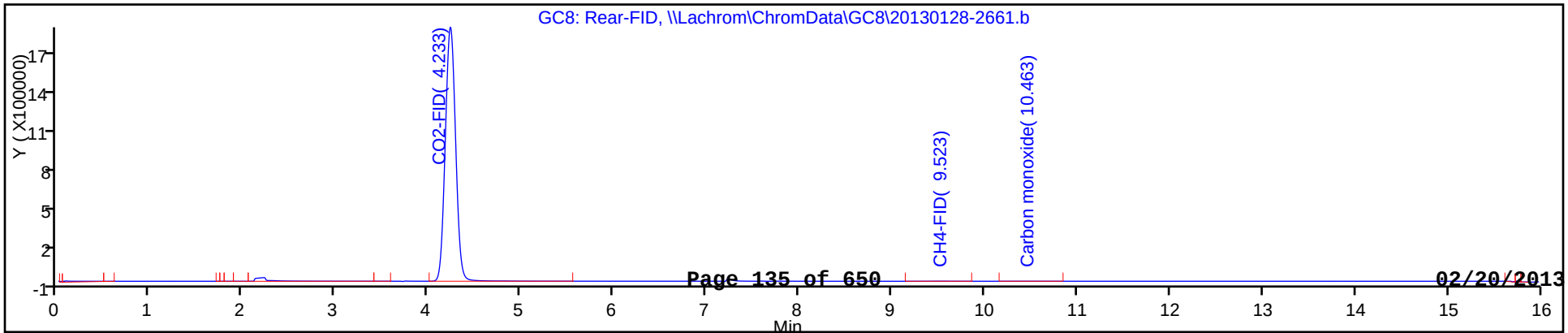


FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-03 Lab Sample ID: 340-5923-3

Matrix: Air Lab File ID: 340-0002661-018 1-28-2013

Analysis Method: D1946 Date Collected: 01/23/2013 17:05

Sample wt/vol: 1(mL) Date Analyzed: 01/28/2013 16:30

Soil Aliquot Vol: Dilution Factor: 2.35

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3877 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	76		4.2	1.4
7782-44-7	Oxygen	21		0.47	0.12

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Lims ID:	340-5923-A-3	Client ID:	SVE-03
Inject. Date:	28-Jan-2013 16:30:41	Dil. Factor:	2.3500
Sample Type:	Client		
Sample ID:	340-0002661-018		
Misc. Info.:	11.78,27.71,1,0,,340-5923-A-3; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	18
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:04:49

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.123	4.083	0.040	17619	4078.8	
14 CO2-FID						
3	4.233	4.237	-0.004	14263739	3666.2	
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.553	7.537	0.016	385394	89781	M
9 Nitrogen						M
1	7.883	7.897	-0.014	4031113	896343	M
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.523	9.527	-0.004	8841	3.74	
7 Carbon monoxide						
3	10.463	10.477	-0.014	3821	3.81	

QC Flag Legend

Processing Flags
1 - Missing Peaks

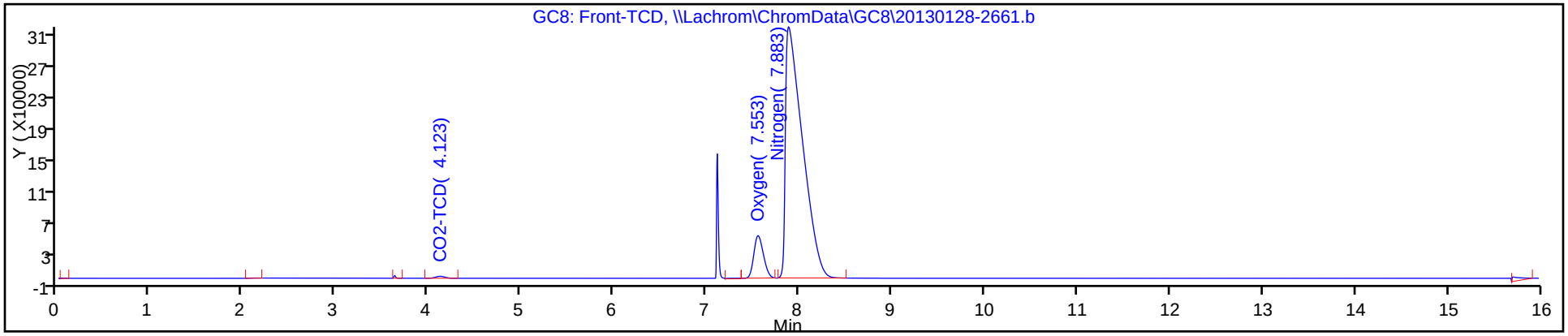
Review Flags
M - Manually Integrated

Report Date: 29-Jan-2013 11:19:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

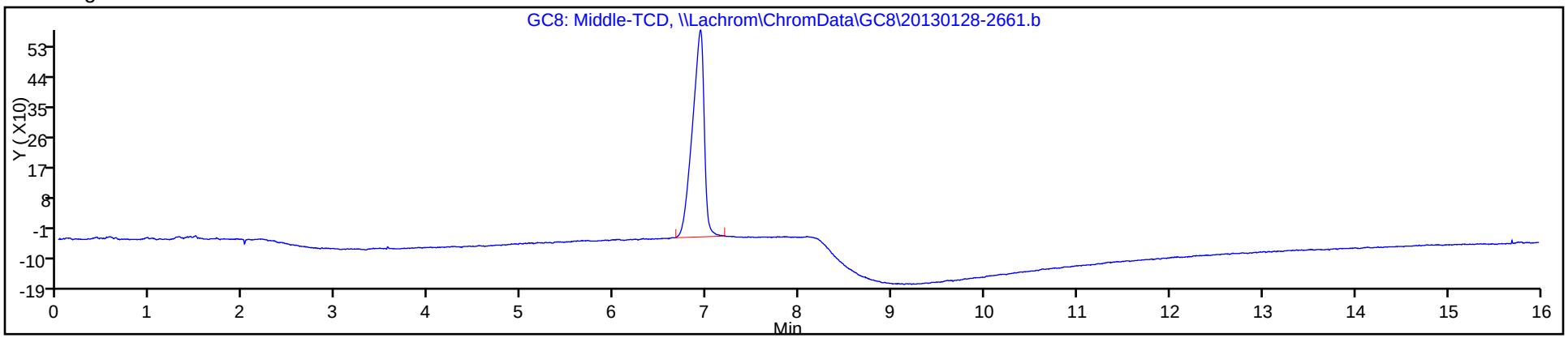
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Injection Date:	28-Jan-2013 16:30:41	Limit Group:	ASTM D-1946
Client ID:	SVE-03	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	18
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

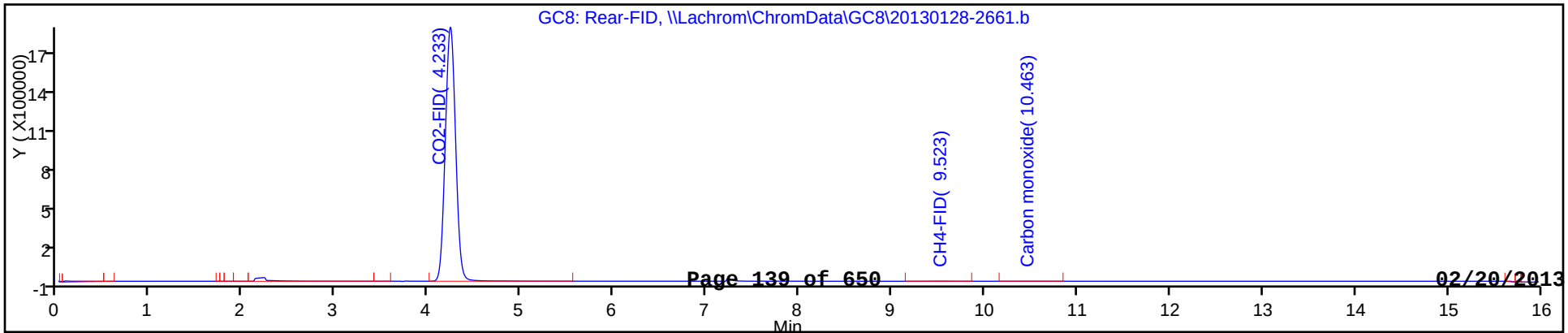
Y Scaling:



Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

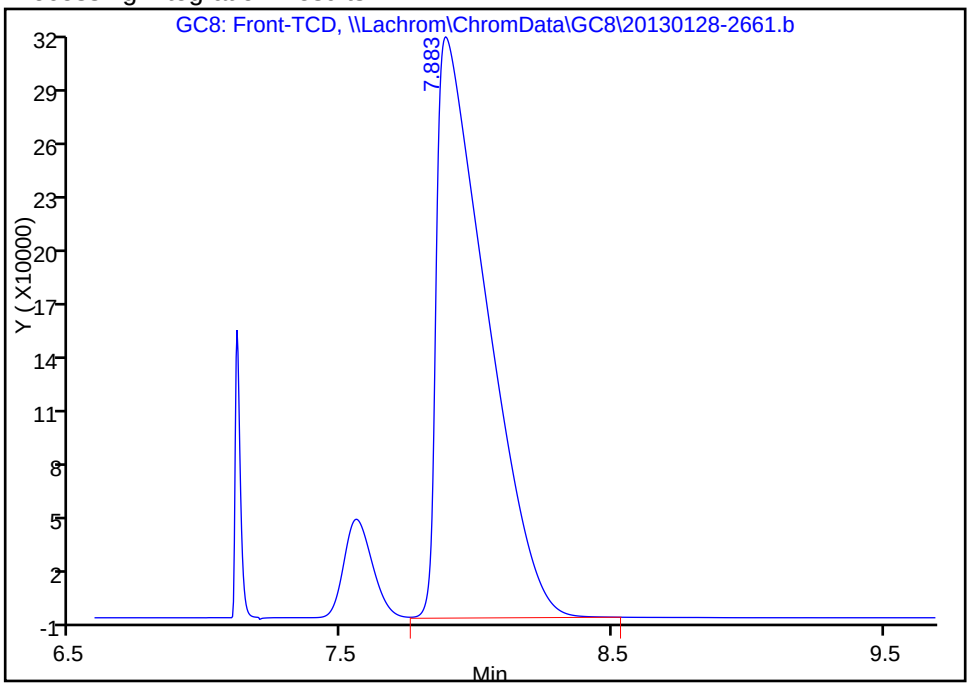
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Injection Date:	28-Jan-2013 16:30:41	Limit Group:	ASTM D-1946
Client ID:	SVE-03	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	18
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.90, Det: Front-TCD

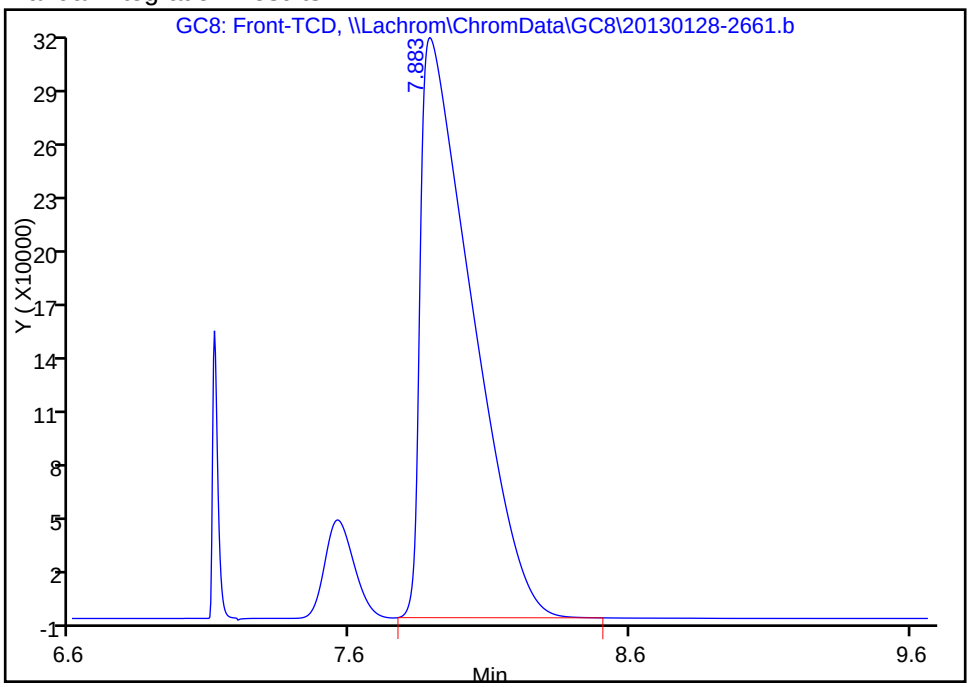
Processing Integration Results

RT: 7.88
Response: 4049439
Amount: 900441



Manual Integration Results

RT: 7.88
Response: 4031113
Amount: 896343



Reviewer: iancue, 29-Jan-2013 11:04:49
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Report Date: 29-Jan-2013 11:19:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

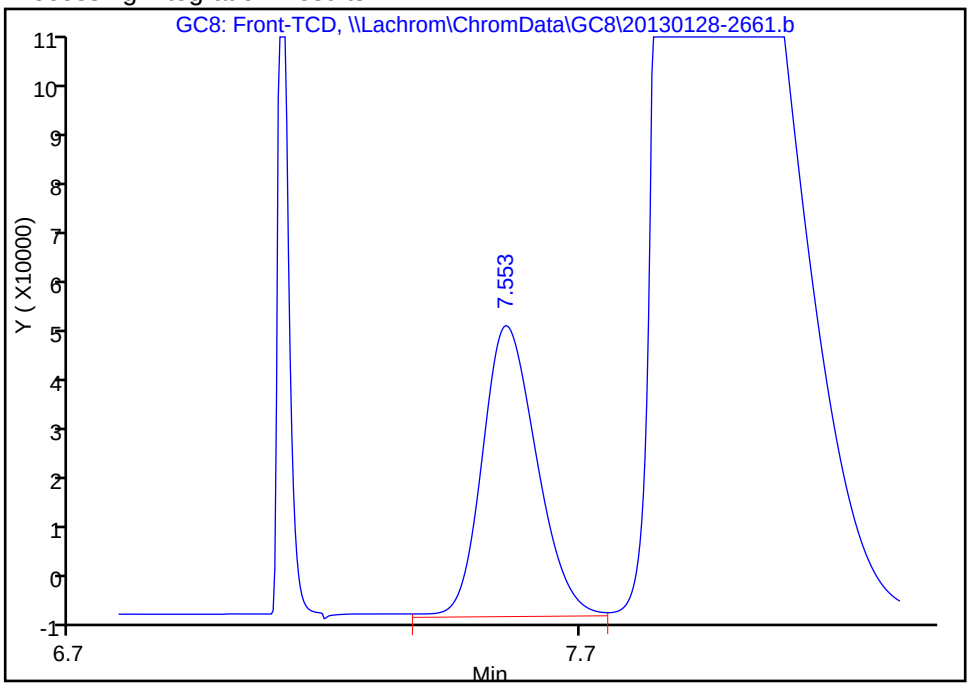
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-018 1-28-2013 4;30;41 pm -1.d		
Injection Date:	28-Jan-2013 16:30:41	Limit Group:	ASTM D-1946
Client ID:	SVE-03	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	18
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.54, Det: Front-TCD

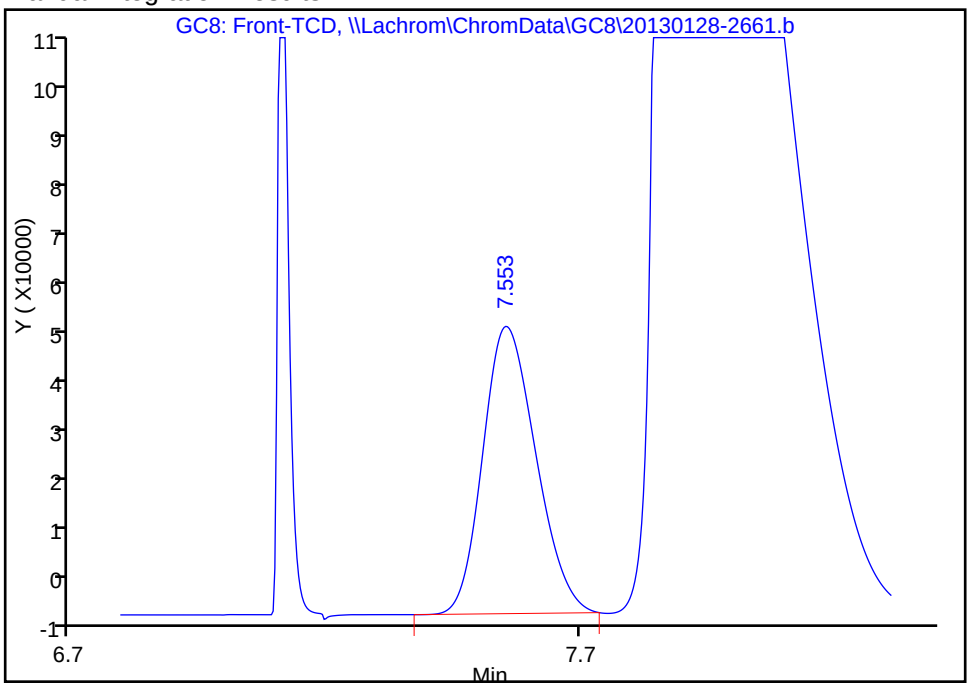
Processing Integration Results

RT: 7.55
Response: 400940
Amount: 93424



Manual Integration Results

RT: 7.55
Response: 385394
Amount: 89781



Reviewer: iancue, 29-Jan-2013 11:04:49
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-02 | Lab Sample ID: 340-5923-4

Matrix: Air | Lab File ID: 340-0002661-019 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 18:50

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 16:50

Soil Aliquot Vol: | Dilution Factor: 2.06

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	0.00095	J	0.0019	0.00041
74-84-0	Ethane	ND		0.0010	0.00025
74-85-1	Ethene	ND		0.0010	0.00031
74-82-8	Methane (FID)	0.019		0.00082	0.00025

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Lims ID:	340-5923-A-4	Client ID:	SVE-02
Inject. Date:	28-Jan-2013 16:50:09	Dil. Factor:	2.0600
Sample Type:	Client		
Sample ID:	340-0002661-019		
Misc. Info.:	13.44,27.77,1,0,,340-5923-A-4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	19
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:06:38

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	98040	18110	
14 CO2-FID						
3	4.237	4.237	0.000	78961101	20214	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.553	7.537	0.016	394508	91917	MA
9 Nitrogen						MA
1	7.887	7.897	-0.010	3967179	882047	MA
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.517	9.527	-0.010	353328	93.5	
7 Carbon monoxide						
3	10.457	10.477	-0.020	7003	4.61	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

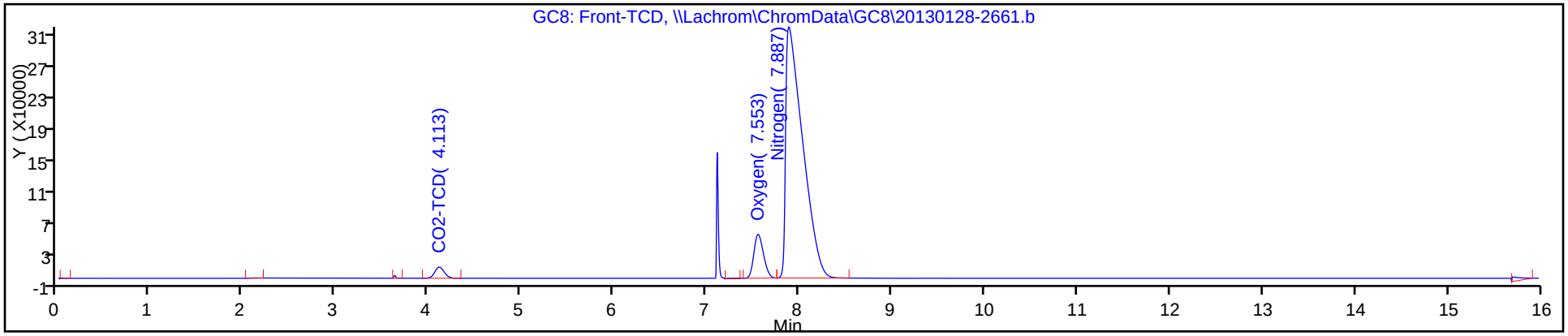
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 29-Jan-2013 11:19:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

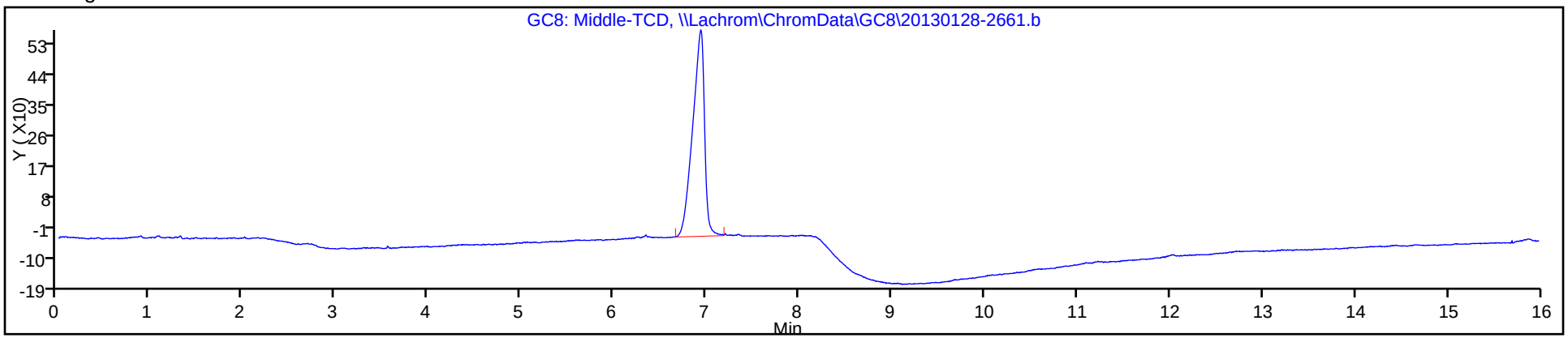
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Injection Date:	28-Jan-2013 16:50:09	Limit Group:	ASTM D-1946
Client ID:	SVE-02	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	19
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

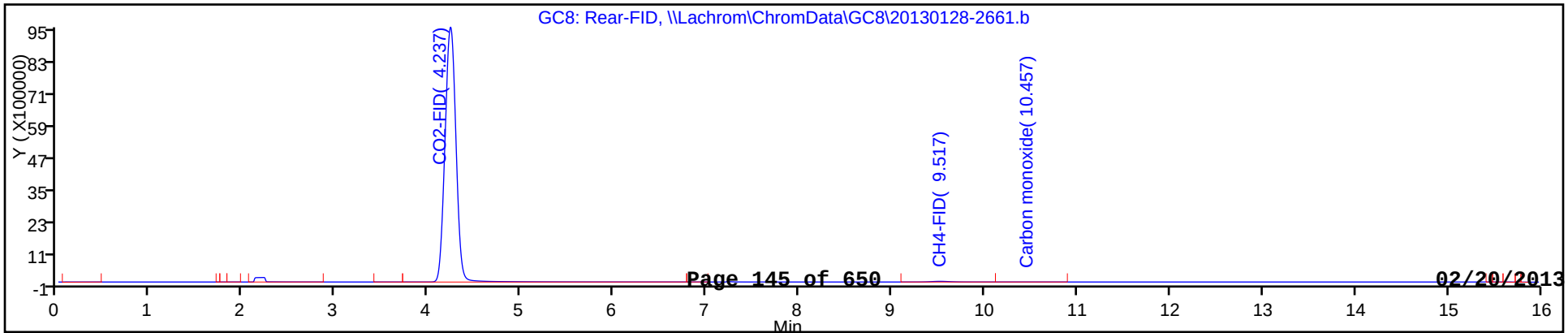
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-02 | Lab Sample ID: 340-5923-4

Matrix: Air | Lab File ID: 340-0002661-019 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 18:50

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 16:50

Soil Aliquot Vol: | Dilution Factor: 2.06

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	3.7		0.021	0.0041
7727-37-9	Nitrogen	75		3.7	1.2
7782-44-7	Oxygen	19		0.41	0.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Lims ID:	340-5923-A-4	Client ID:	SVE-02
Inject. Date:	28-Jan-2013 16:50:09	Dil. Factor:	2.0600
Sample Type:	Client		
Sample ID:	340-0002661-019		
Misc. Info.:	13.44,27.77,1,0,,340-5923-A-4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	19
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:06:38

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	98040	18110	
14 CO2-FID						
3	4.237	4.237	0.000	78961101	20214	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.553	7.537	0.016	394508	91917	MA
9 Nitrogen						MA
1	7.887	7.897	-0.010	3967179	882047	MA
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.517	9.527	-0.010	353328	93.5	
7 Carbon monoxide						
3	10.457	10.477	-0.020	7003	4.61	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

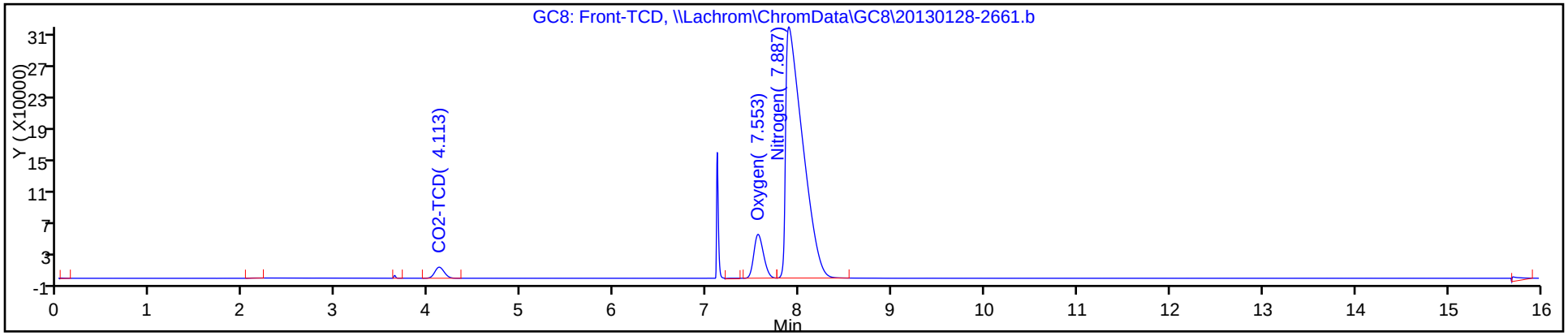
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 29-Jan-2013 11:19:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

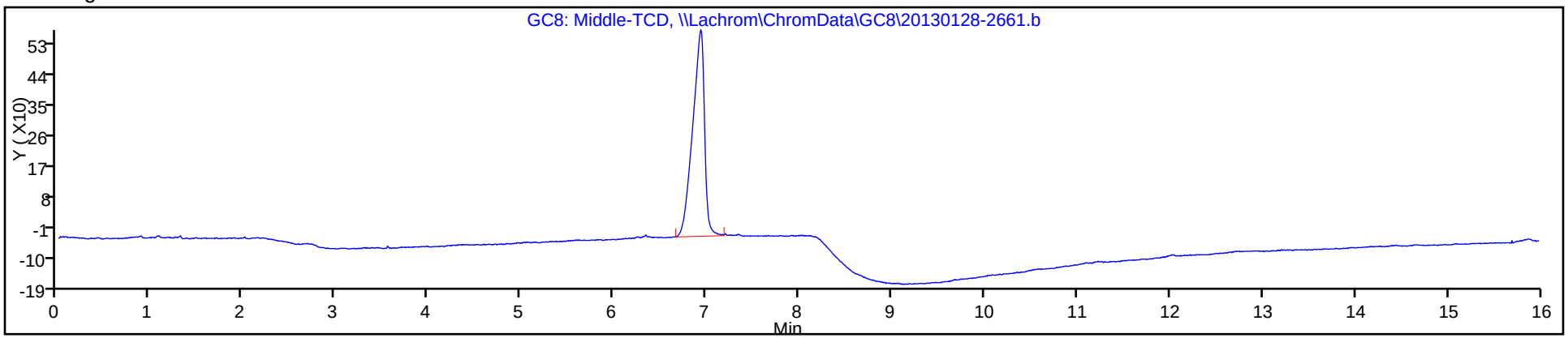
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Injection Date:	28-Jan-2013 16:50:09	Limit Group:	ASTM D-1946
Client ID:	SVE-02	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	19
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

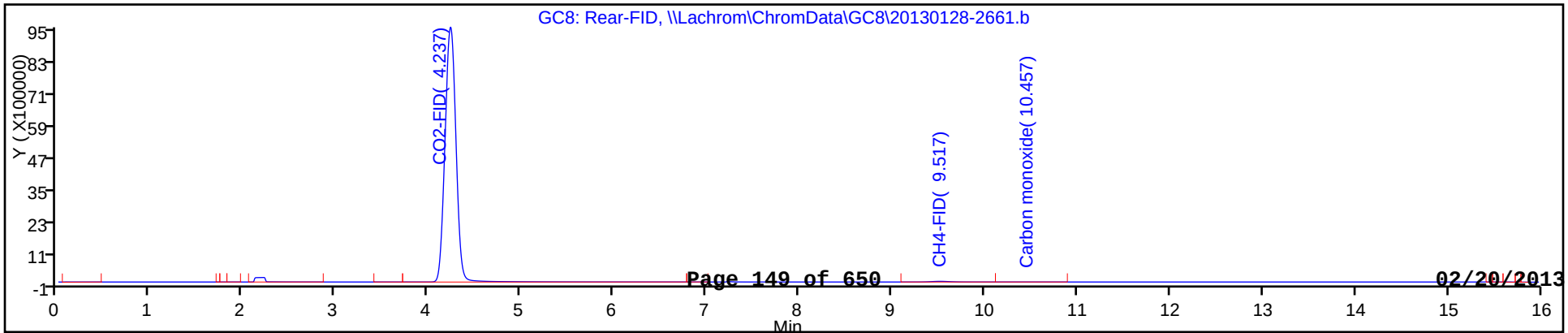
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 29-Jan-2013 11:19:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

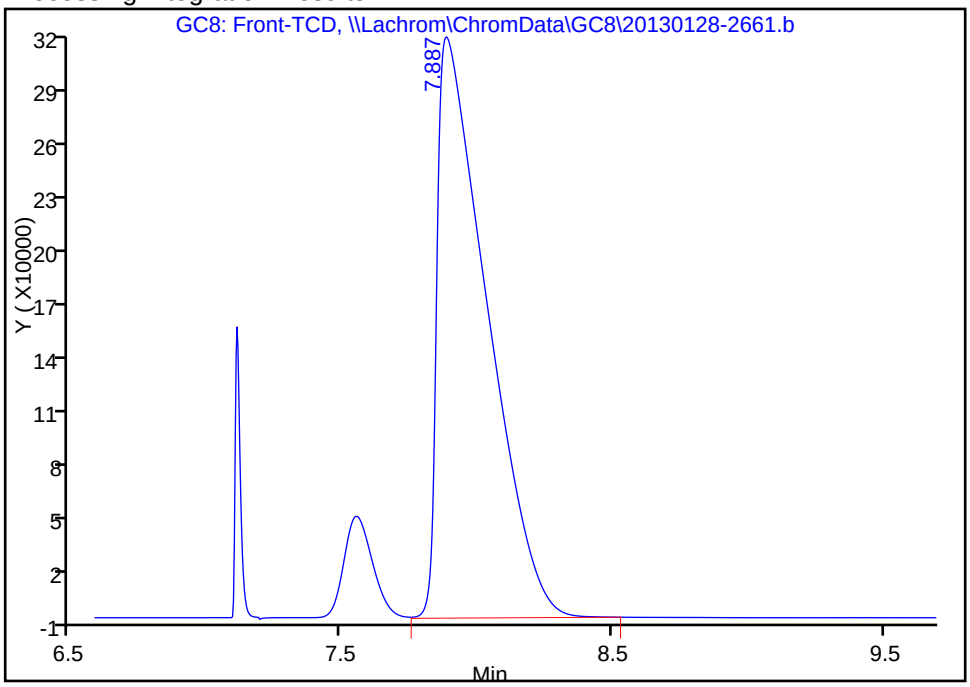
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Injection Date:	28-Jan-2013 16:50:09	Limit Group:	ASTM D-1946
Client ID:	SVE-02	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	19
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.90, Det: Front-TCD

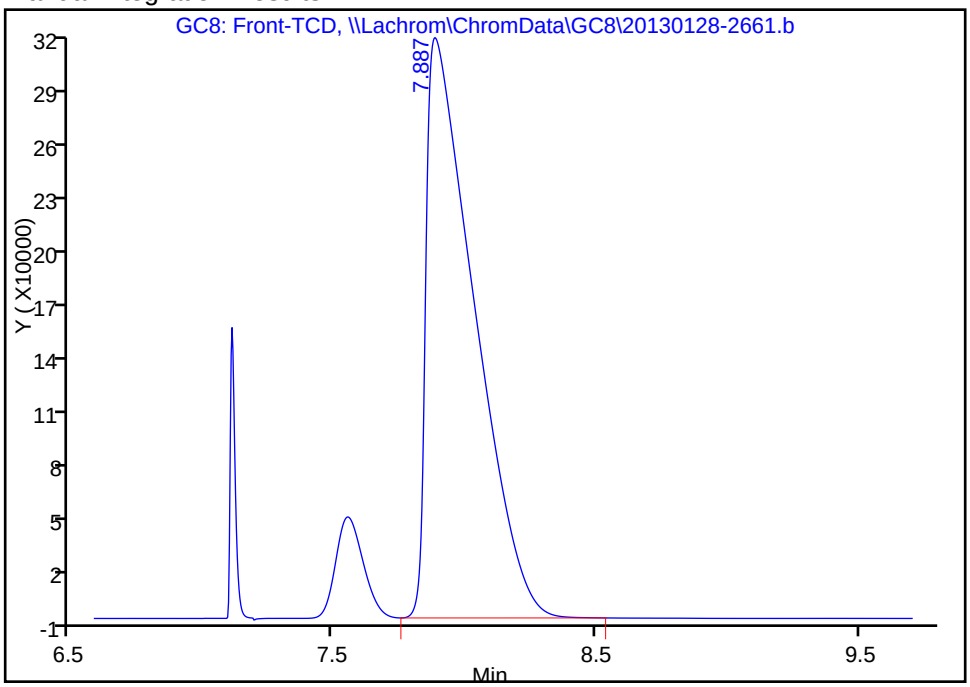
Processing Integration Results

RT: 7.89
Response: 3980330
Amount: 884987



Manual Integration Results

RT: 7.89
Response: 3967179
Amount: 882047



Reviewer: iancue, 29-Jan-2013 11:06:38
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

Report Date: 29-Jan-2013 11:19:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

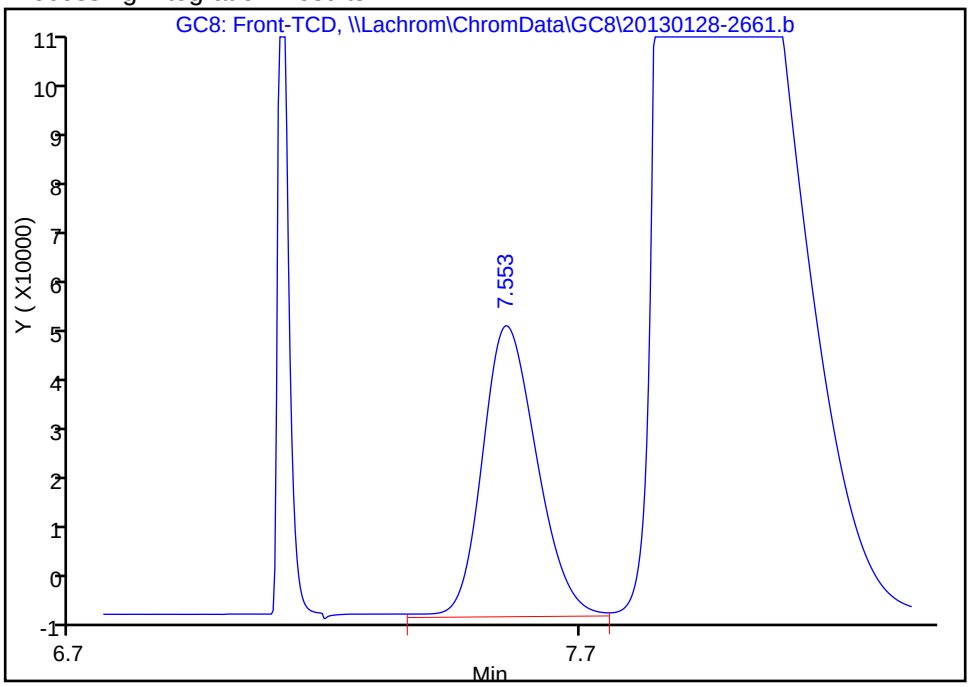
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-019 1-28-2013 4;50;09 pm -1.d		
Injection Date:	28-Jan-2013 16:50:09	Limit Group:	ASTM D-1946
Client ID:	SVE-02	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	19
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.54, Det: Front-TCD

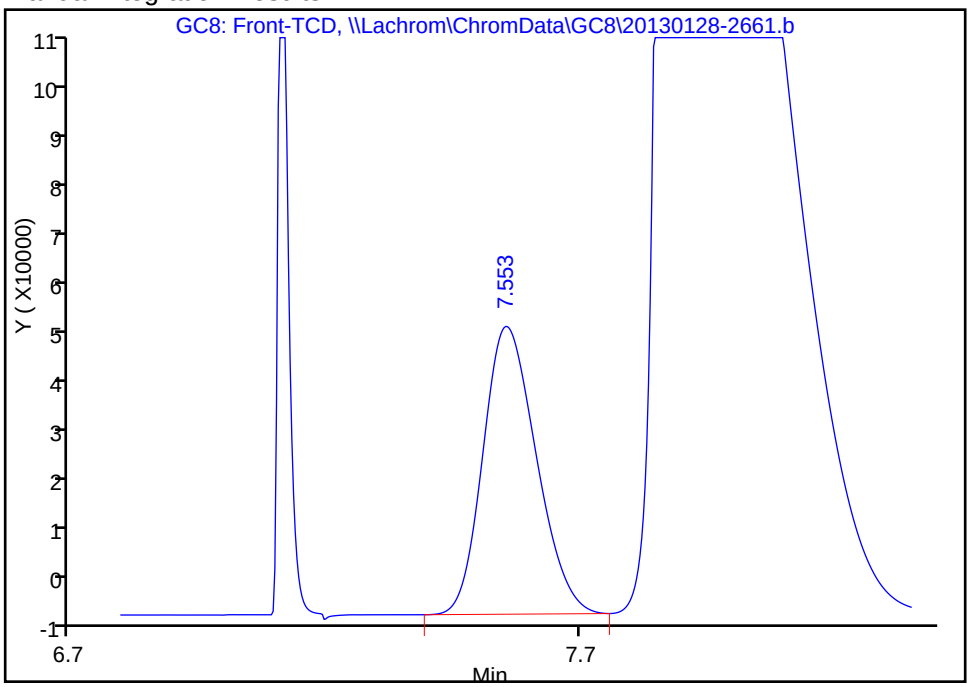
Processing Integration Results

RT: 7.55
Response: 408998
Amount: 95312



Manual Integration Results

RT: 7.55
Response: 394508
Amount: 91917



Reviewer: iancue, 29-Jan-2013 11:06:38
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-05 | Lab Sample ID: 340-5923-5

Matrix: Air | Lab File ID: 340-0002661-020 1-28-2013

Analysis Method: D1946 | Date Collected: 01/23/2013 15:50

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 17:08

Soil Aliquot Vol: | Dilution Factor: 2.08

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	ND		0.0019	0.00042
74-84-0	Ethane	ND		0.0010	0.00025
74-85-1	Ethene	ND		0.0010	0.00031
74-82-8	Methane (FID)	0.00047	J	0.00083	0.00025

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Lims ID:	340-5923-A-5	Client ID:	SVE-05
Inject. Date:	28-Jan-2013 17:08:09	Dil. Factor:	2.0800
Sample Type:	Client		
Sample ID:	340-0002661-020		
Misc. Info.:	12.22,25.40,1,0,,340-5923-A-5; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	20
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:07:49

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	107243	19715	
14 CO2-FID						
3	4.233	4.237	-0.004	85314522	21839	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.557	7.537	0.020	363759	84712	MA
9 Nitrogen						MA
1	7.887	7.897	-0.010	3965359	881640	MA
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.513	9.527	-0.014	3205	2.27	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

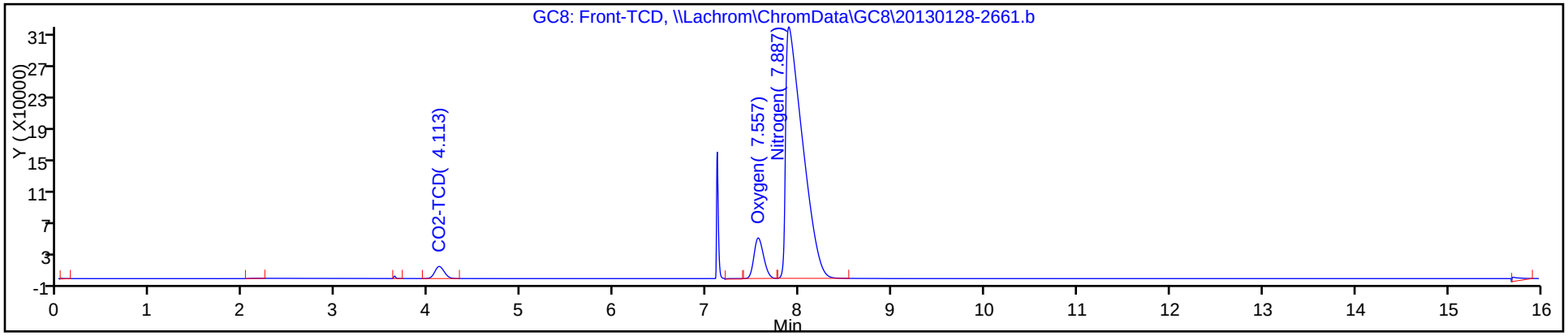
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 29-Jan-2013 11:19:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

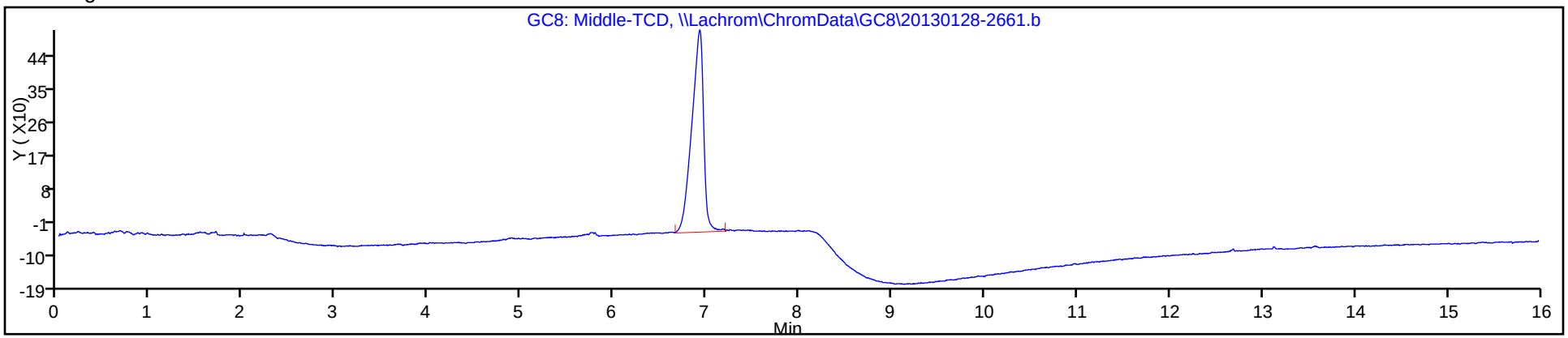
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Injection Date:	28-Jan-2013 17:08:09	Limit Group:	ASTM D-1946
Client ID:	SVE-05	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	20
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

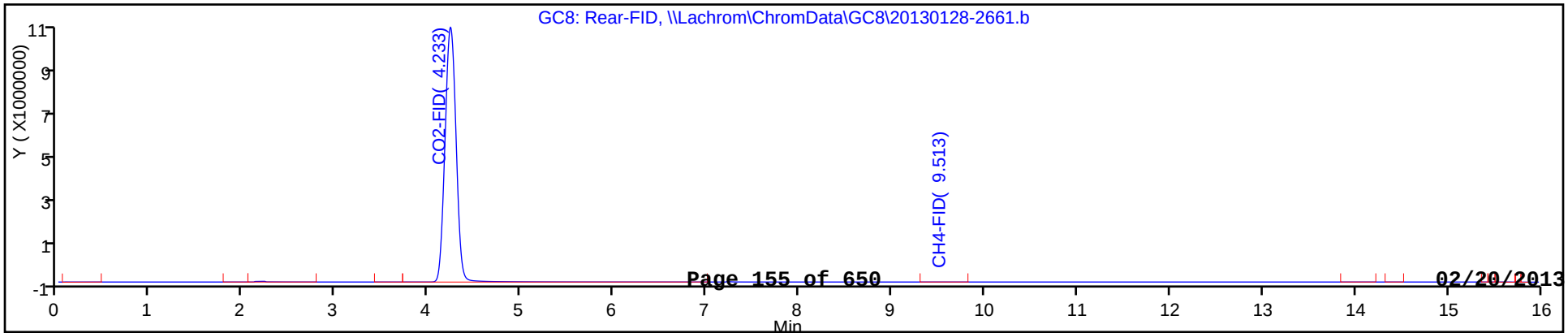
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-05 Lab Sample ID: 340-5923-5

Matrix: Air Lab File ID: 340-0002661-020 1-28-2013

Analysis Method: D1946 Date Collected: 01/23/2013 15:50

Sample wt/vol: 1(mL) Date Analyzed: 01/28/2013 17:08

Soil Aliquot Vol: Dilution Factor: 2.08

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3877 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	4.1		0.021	0.0042
7727-37-9	Nitrogen	75		3.7	1.2
7782-44-7	Oxygen	18		0.42	0.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Lims ID:	340-5923-A-5	Client ID:	SVE-05
Inject. Date:	28-Jan-2013 17:08:09	Dil. Factor:	2.0800
Sample Type:	Client		
Sample ID:	340-0002661-020		
Misc. Info.:	12.22,25.40,1,0,,340-5923-A-5; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	20
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

First Level Reviewer: iancue Date: 29-Jan-2013 11:07:49

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	107243	19715	
14 CO2-FID						
3	4.233	4.237	-0.004	85314522	21839	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.557	7.537	0.020	363759	84712	MA
9 Nitrogen						MA
1	7.887	7.897	-0.010	3965359	881640	MA
12 CH4-TCD						1
1		9.400				
11 CH4-FID						
3	9.513	9.527	-0.014	3205	2.27	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

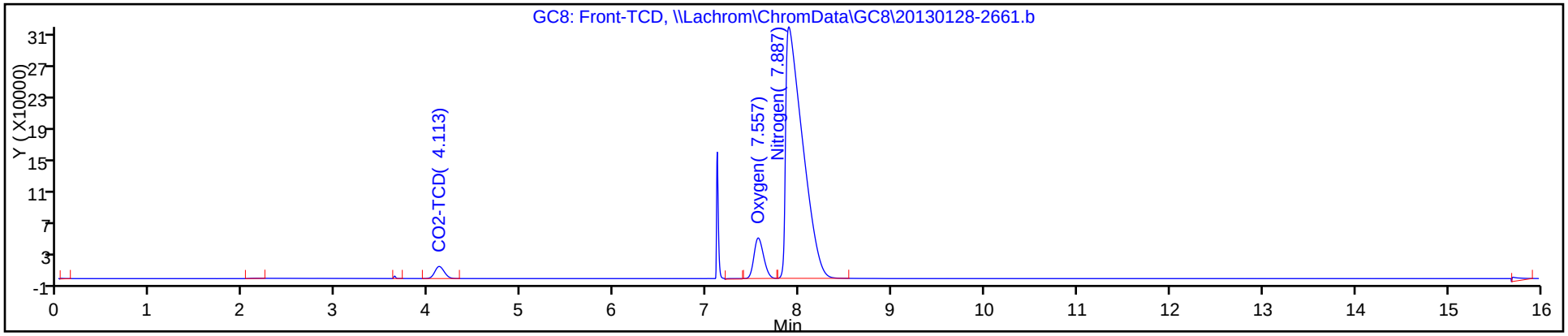
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 29-Jan-2013 11:19:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

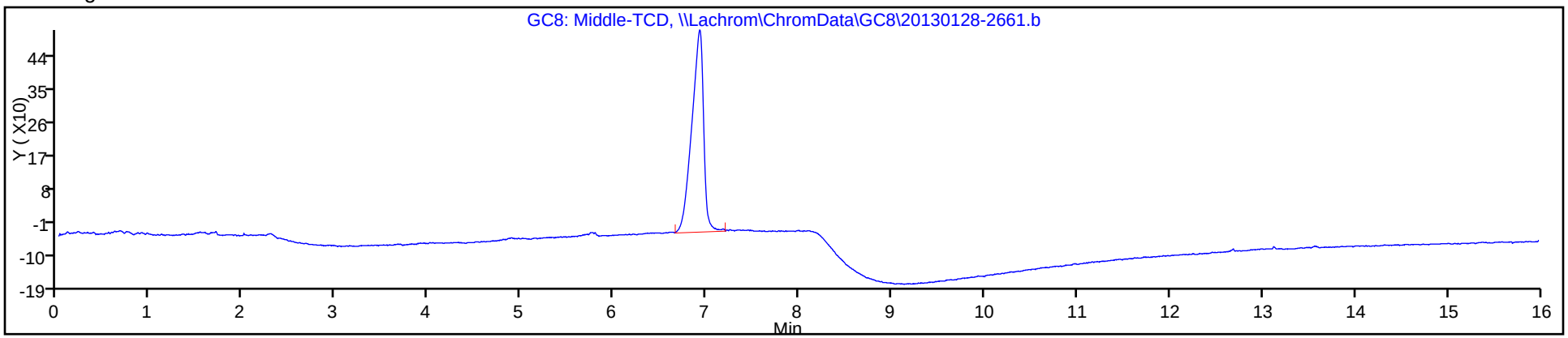
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Injection Date:	28-Jan-2013 17:08:09	Limit Group:	ASTM D-1946
Client ID:	SVE-05	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	20
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

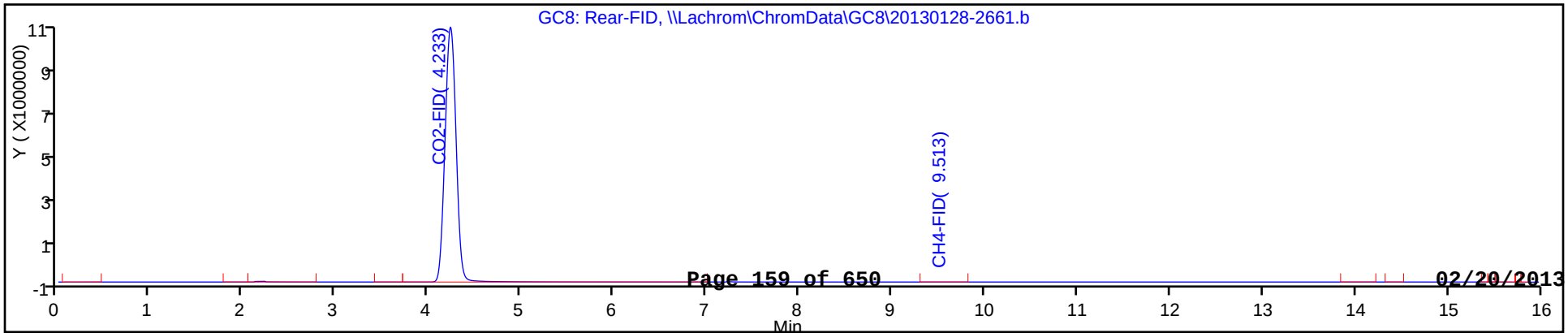
Y Scaling:



Y Scaling:



Y Scaling:



Manual Integration/User Assign Peak Report

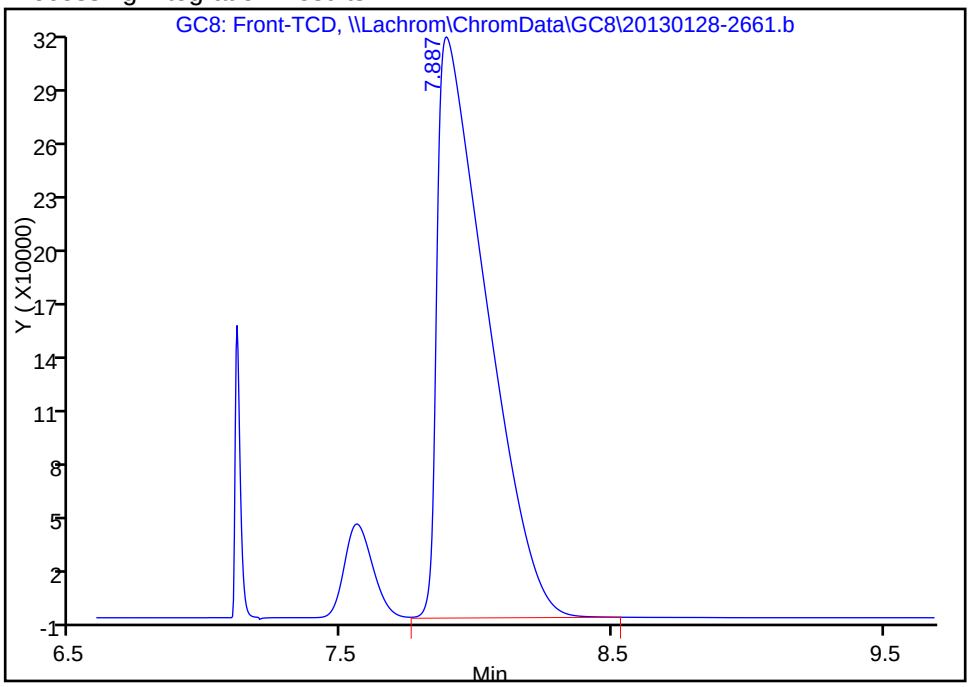
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Injection Date:	28-Jan-2013 17:08:09	Limit Group:	ASTM D-1946
Client ID:	SVE-05	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	20
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.90, Det: Front-TCD

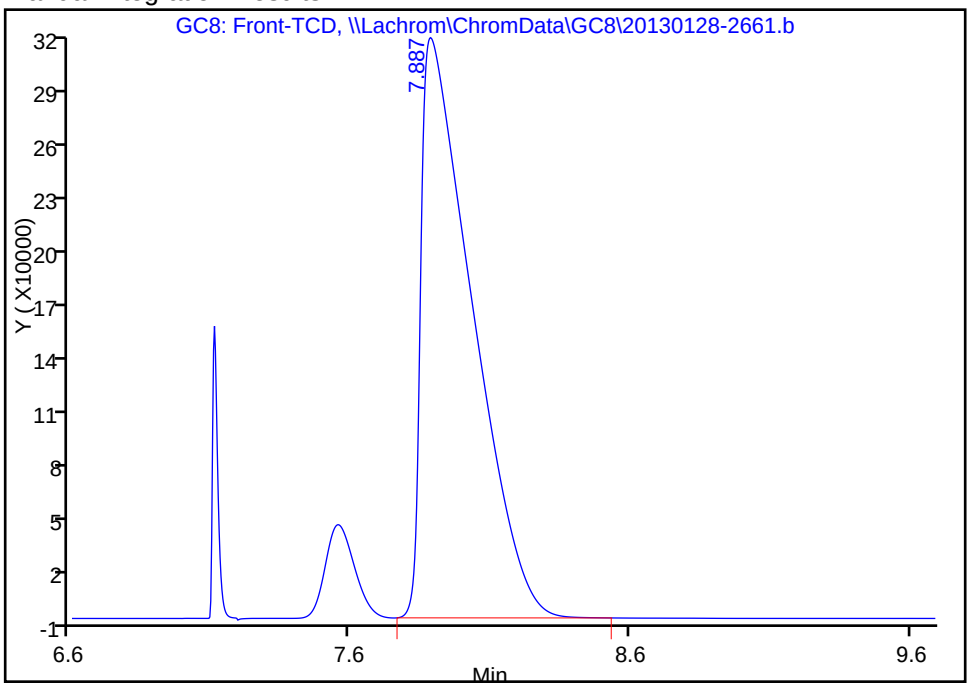
Processing Integration Results

RT: 7.89
Response: 3979131
Amount: 884719



Manual Integration Results

RT: 7.89
Response: 3965359
Amount: 881640



Reviewer: iancue, 29-Jan-2013 11:07:49
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

Report Date: 29-Jan-2013 11:19:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

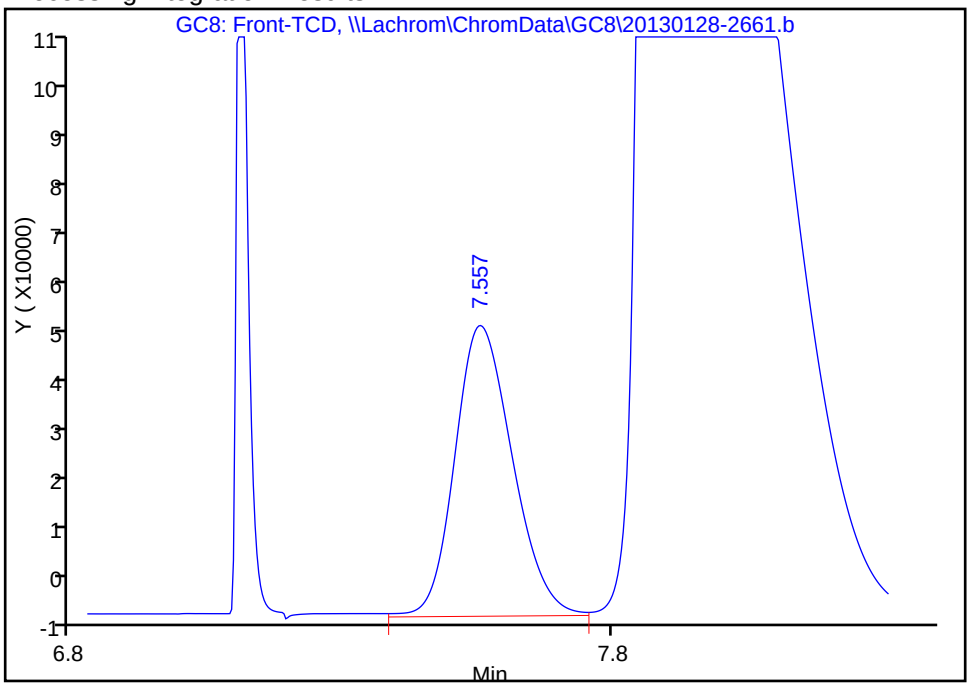
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-020 1-28-2013 5;08;09 pm -1.d		
Injection Date:	28-Jan-2013 17:08:09	Limit Group:	ASTM D-1946
Client ID:	SVE-05	Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	20
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.54, Det: Front-TCD

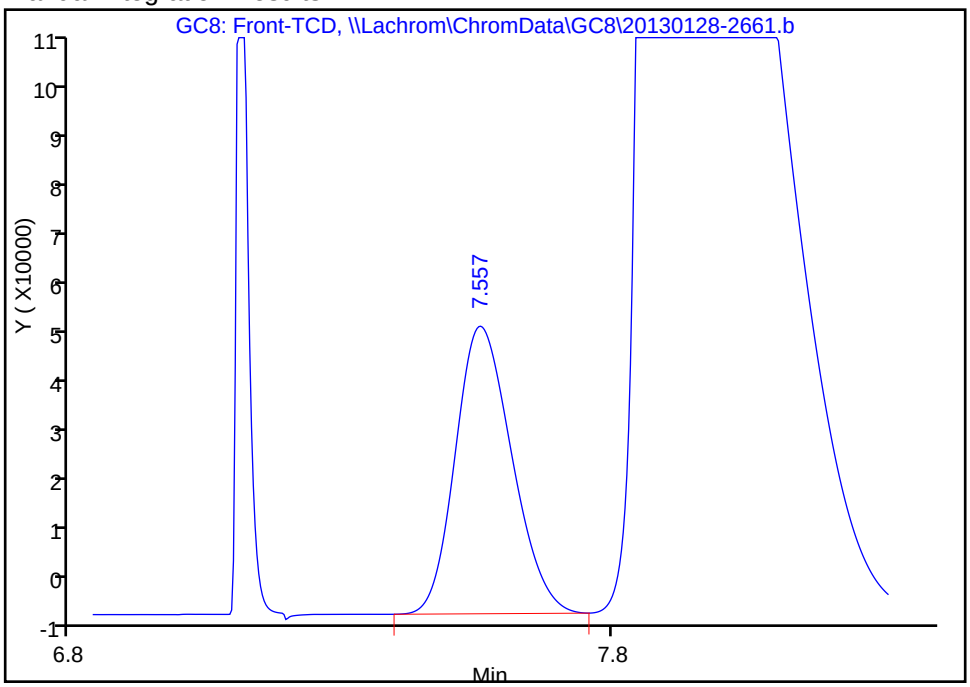
Processing Integration Results

RT: 7.56
Response: 376127
Amount: 87610



Manual Integration Results

RT: 7.56
Response: 363759
Amount: 84712



Reviewer: iancue, 29-Jan-2013 11:07:49
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-1 | Lab Sample ID: 340-5923-6

Matrix: Air | Lab File ID: 340-0002667-012 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 11:13

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 14:36

Soil Aliquot Vol: | Dilution Factor: 1.82

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	0.00069	J	0.0017	0.00036
74-84-0	Ethane	ND		0.00091	0.00022
74-85-1	Ethene	ND		0.00091	0.00027
74-82-8	Methane (FID)	0.0016		0.00073	0.00022

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Lims ID:	340-5923-A-6	Client ID:	SVE-01-1
Inject. Date:	29-Jan-2013 14:36:31	Dil. Factor:	1.8200
Sample Type:	Client		
Sample ID:	340-0002667-012		
Misc. Info.:	14.20,25.83,1,0,,340-5923-A-6; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	12
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: iancue Date: 30-Jan-2013 09:51:20

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.120	4.083	0.037	49048	9562.1	
14 CO2-FID						
3	4.233	4.237	-0.004	39940602	10234	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.553	7.533	0.020	492288	114829	MA
9 Nitrogen						MA
1	7.890	7.893	-0.003	3932854	874371	MA
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.530	9.527	0.003	28413	8.84	
7 Carbon monoxide						
3	10.470	10.477	-0.007	3785	3.80	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

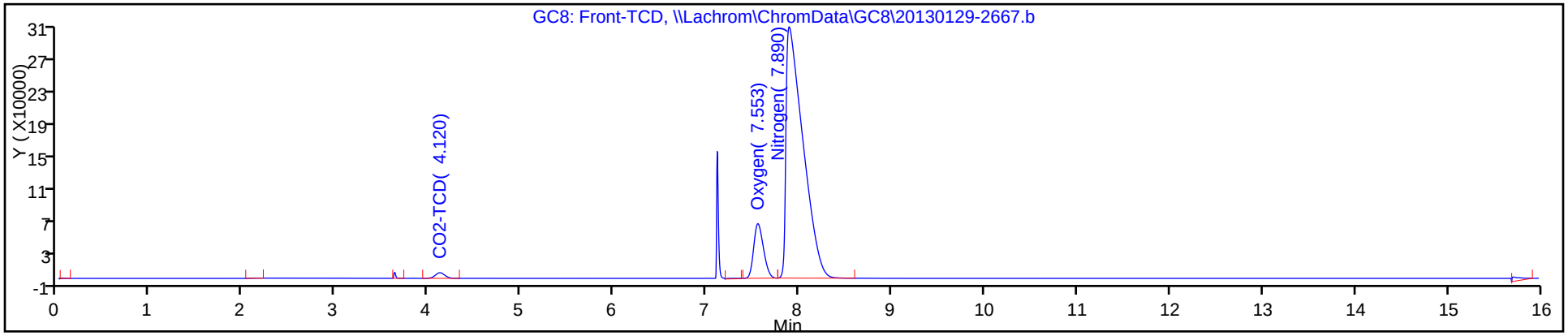
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 30-Jan-2013 10:09:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

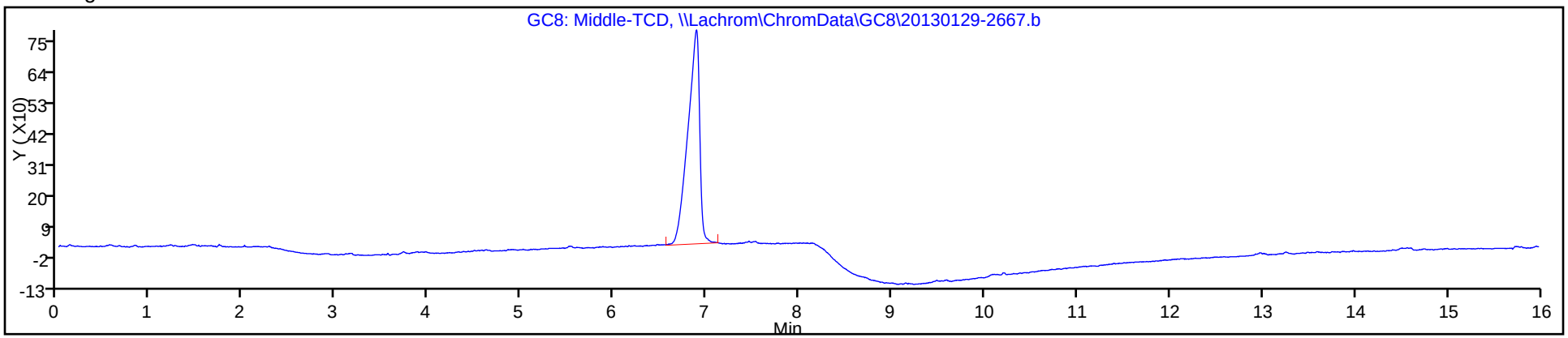
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Injection Date:	29-Jan-2013 14:36:31	Limit Group:	ASTM D-1946
Client ID:	SVE-01-1	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	12
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

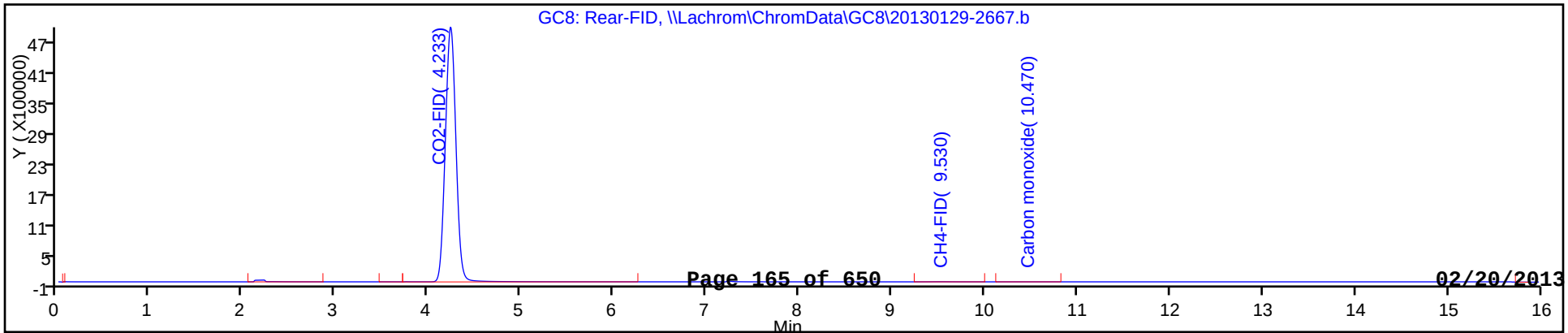
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-1 Lab Sample ID: 340-5923-6

Matrix: Air Lab File ID: 340-0002667-012 1-29-2013

Analysis Method: D1946 Date Collected: 01/22/2013 11:13

Sample wt/vol: 1(mL) Date Analyzed: 01/29/2013 14:36

Soil Aliquot Vol: Dilution Factor: 1.82

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3886 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	1.7		0.018	0.0036
7727-37-9	Nitrogen	77		3.3	1.1
7782-44-7	Oxygen	21		0.36	0.091

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Lims ID:	340-5923-A-6	Client ID:	SVE-01-1
Inject. Date:	29-Jan-2013 14:36:31	Dil. Factor:	1.8200
Sample Type:	Client		
Sample ID:	340-0002667-012		
Misc. Info.:	14.20,25.83,1,0,,340-5923-A-6; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	12
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: iancue Date: 30-Jan-2013 09:51:20

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.120	4.083	0.037	49048	9562.1	
14 CO2-FID						
3	4.233	4.237	-0.004	39940602	10234	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						MA
1	7.553	7.533	0.020	492288	114829	MA
9 Nitrogen						MA
1	7.890	7.893	-0.003	3932854	874371	MA
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.530	9.527	0.003	28413	8.84	
7 Carbon monoxide						
3	10.470	10.477	-0.007	3785	3.80	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

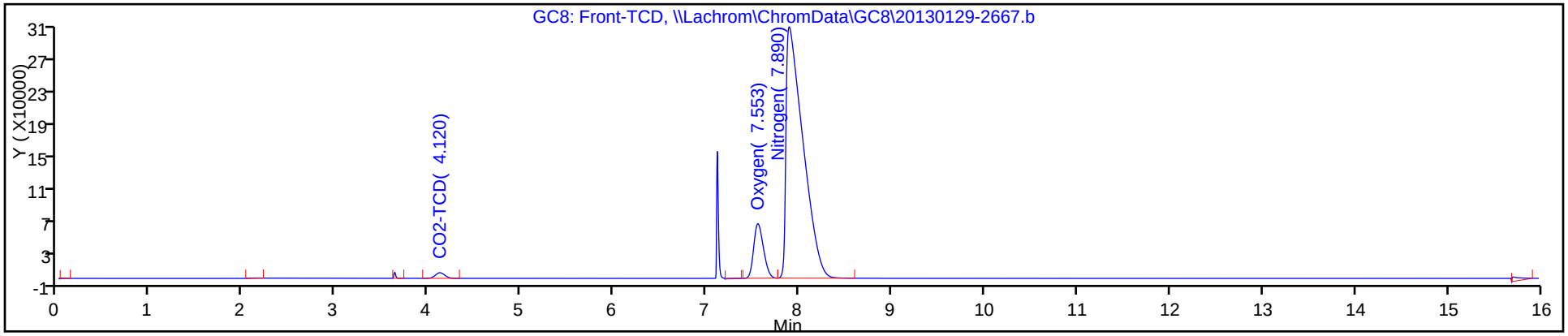
Review Flags
M - Manually Integrated
A - User Assigned ID

Report Date: 30-Jan-2013 10:09:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Injection Date:	29-Jan-2013 14:36:31	Limit Group:	ASTM D-1946
Client ID:	SVE-01-1	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	12
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



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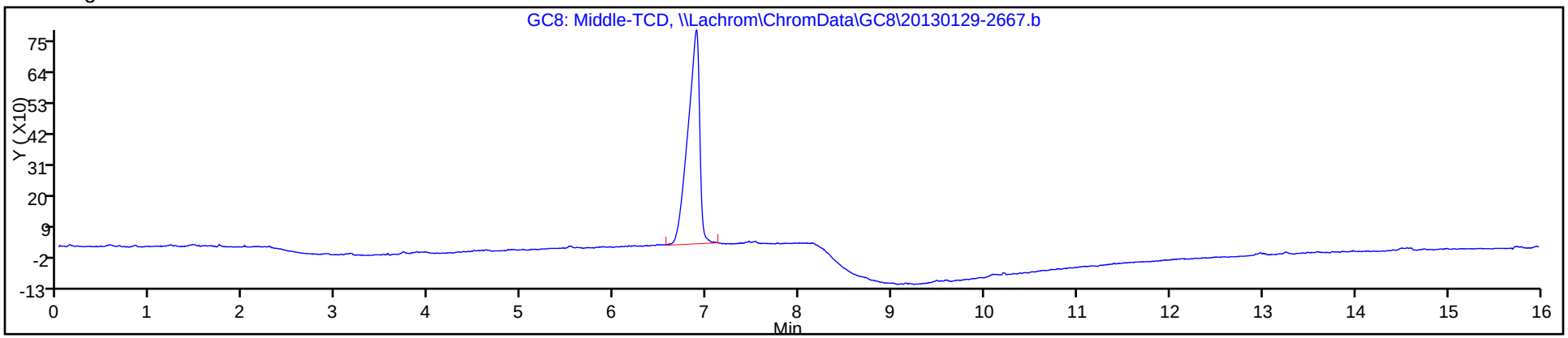

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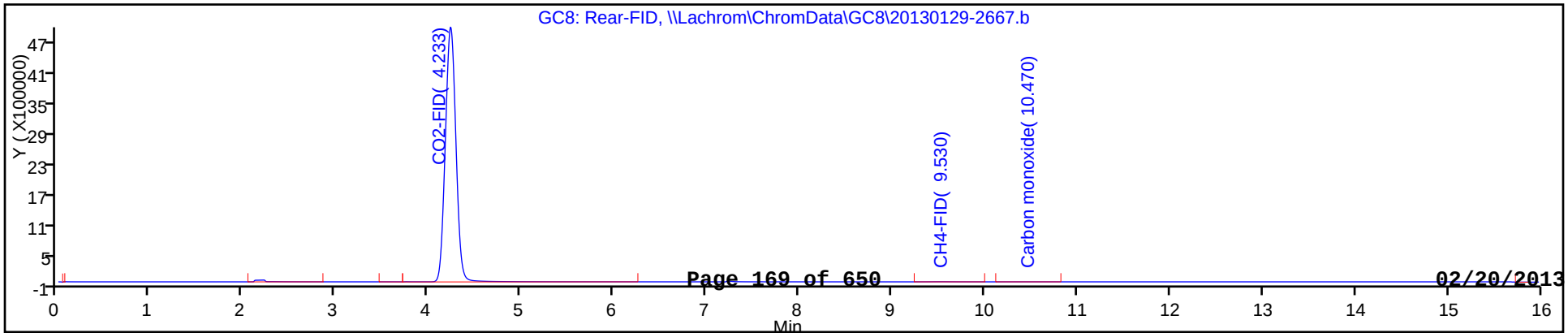


Manual Integration/User Assign Peak Report

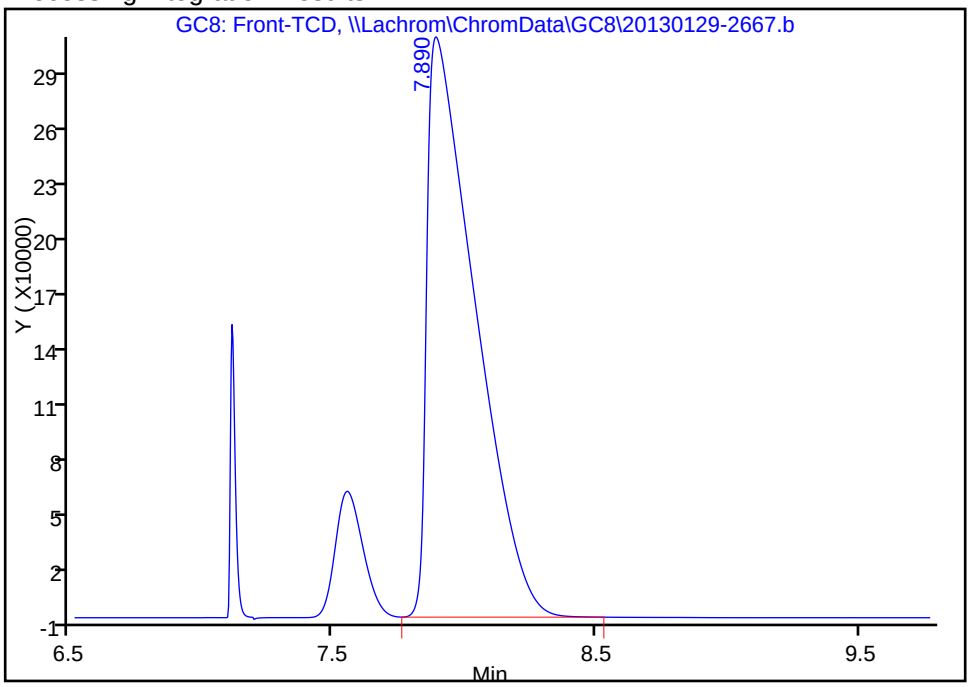
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Injection Date:	29-Jan-2013 14:36:31	Limit Group:	ASTM D-1946
Client ID:	SVE-01-1	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	12
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.89, Det: Front-TCD

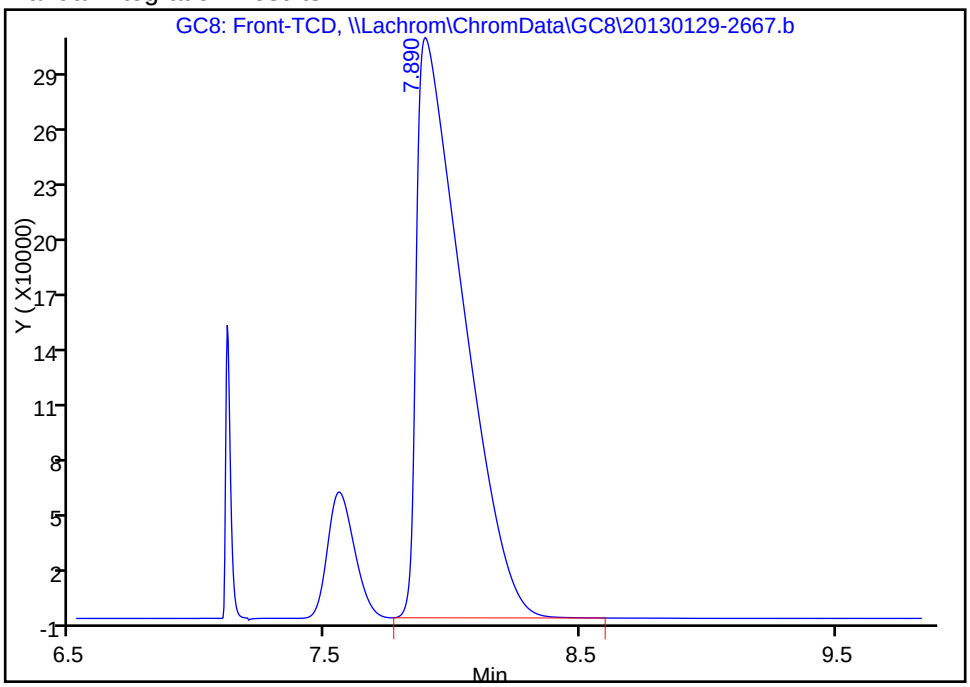
Processing Integration Results

RT: 7.89
Response: 3931709
Amount: 874115



Manual Integration Results

RT: 7.89
Response: 3932854
Amount: 874371



Reviewer: iancue, 30-Jan-2013 09:51:20
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

Report Date: 30-Jan-2013 10:09:45 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

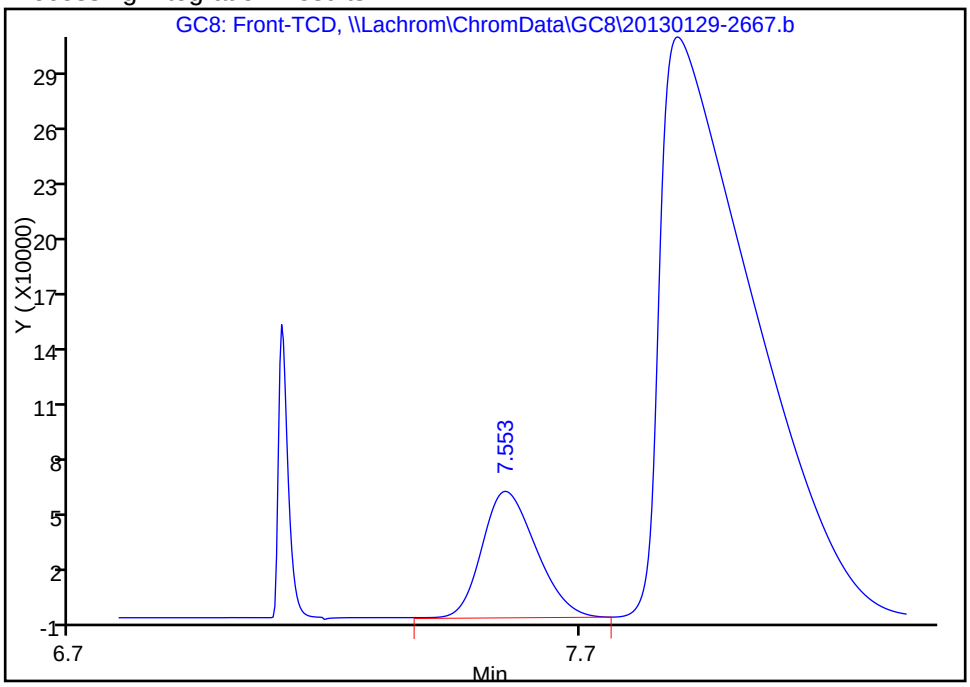
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-012 1-29-2013 2;36;31 pm -1.d		
Injection Date:	29-Jan-2013 14:36:31	Limit Group:	ASTM D-1946
Client ID:	SVE-01-1	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	12
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.53, Det: Front-TCD

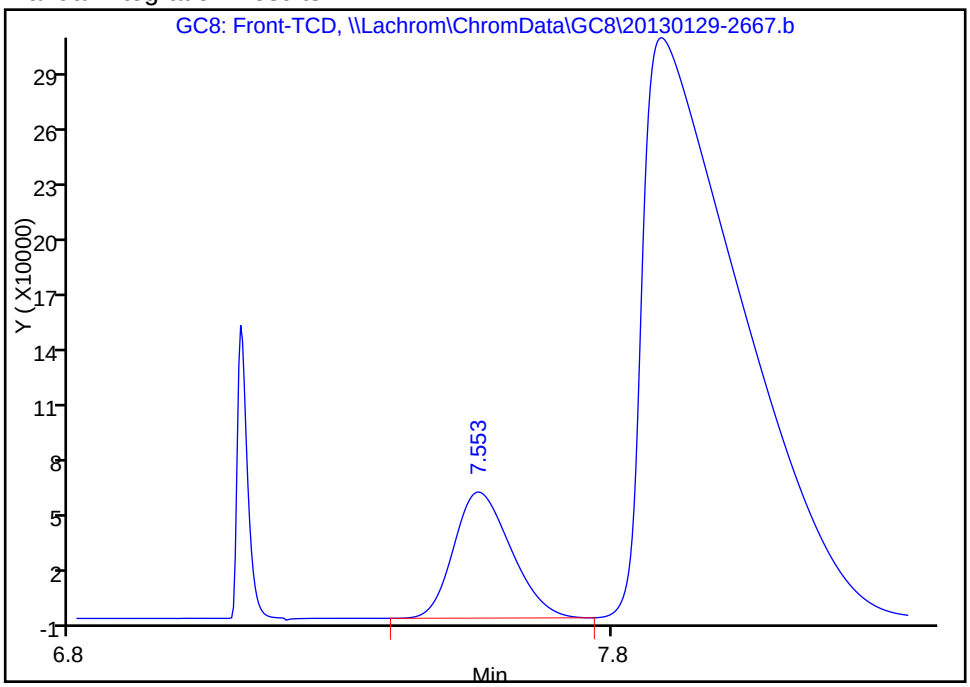
Processing Integration Results

RT: 7.55
Response: 497781
Amount: 116117



Manual Integration Results

RT: 7.55
Response: 492288
Amount: 114829



Reviewer: iancue, 30-Jan-2013 09:51:20
Audit Action: Manually Integrated/Assigned Compound ID
Audit Reason: Assign Peak

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-2 | Lab Sample ID: 340-5923-7

Matrix: Air | Lab File ID: 340-0002667-013 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 16:30

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 14:55

Soil Aliquot Vol: | Dilution Factor: 1.75

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	0.00068	J	0.0016	0.00035
74-84-0	Ethane	ND		0.00088	0.00021
74-85-1	Ethene	ND		0.00088	0.00026
74-82-8	Methane (FID)	0.0025		0.00070	0.00021

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Lims ID:	340-5923-A-7	Client ID:	SVE-01-2
Inject. Date:	29-Jan-2013 14:55:10	Dil. Factor:	1.7500
Sample Type:	Client		
Sample ID:	340-0002667-013		
Misc. Info.:	14.03,24.53,1,0,,340-5923-A-7; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	13
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: iancue Date: 30-Jan-2013 09:51:52

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	89673	16650	
14 CO2-FID						
3	4.237	4.237	0.000	72616305	18591	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.553	7.533	0.020	482653	112572	M
9 Nitrogen						M
1	7.890	7.893	-0.003	3906013	868369	M
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.520	9.527	-0.007	48899	14.2	
7 Carbon monoxide						
3	10.477	10.477	0.000	4123	3.88	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

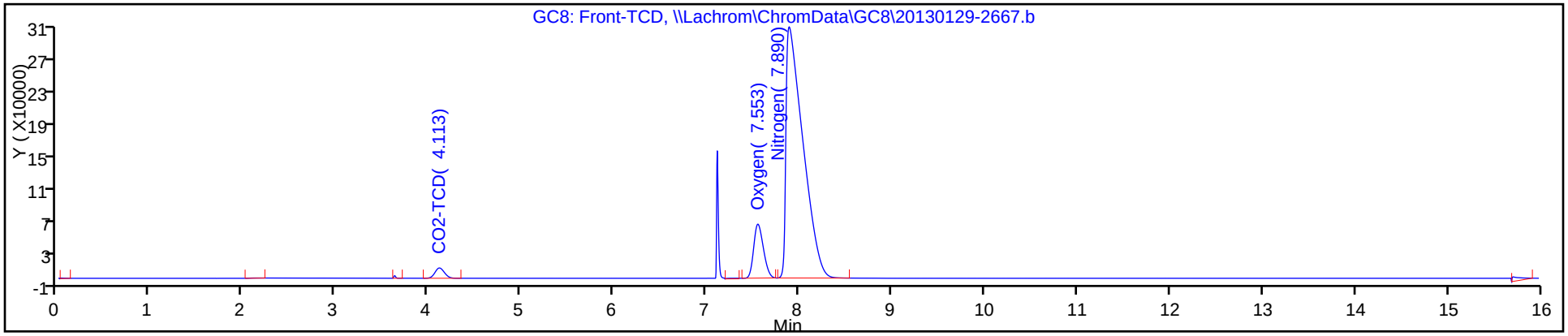
Review Flags
M - Manually Integrated

Report Date: 30-Jan-2013 10:09:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

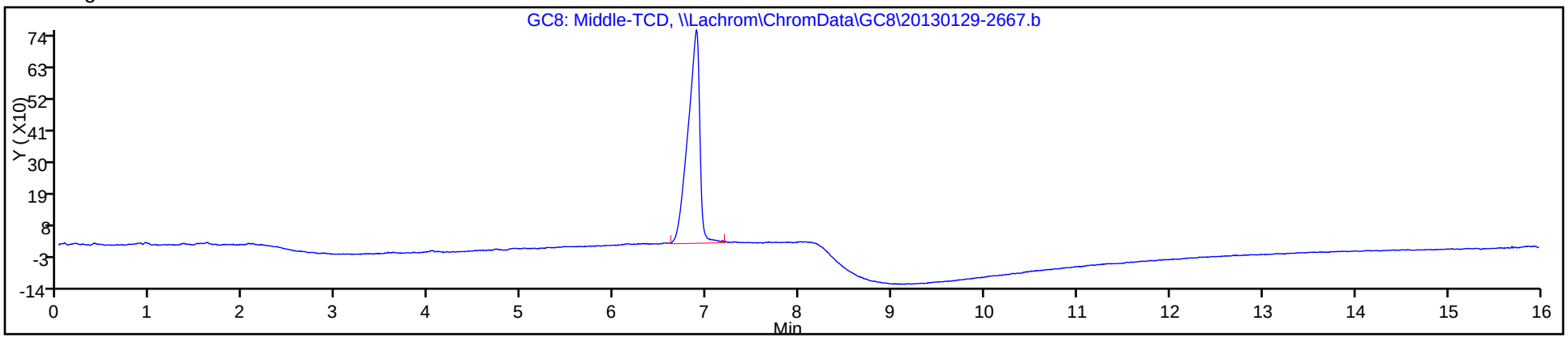
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Injection Date:	29-Jan-2013 14:55:10	Limit Group:	ASTM D-1946
Client ID:	SVE-01-2	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	13
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

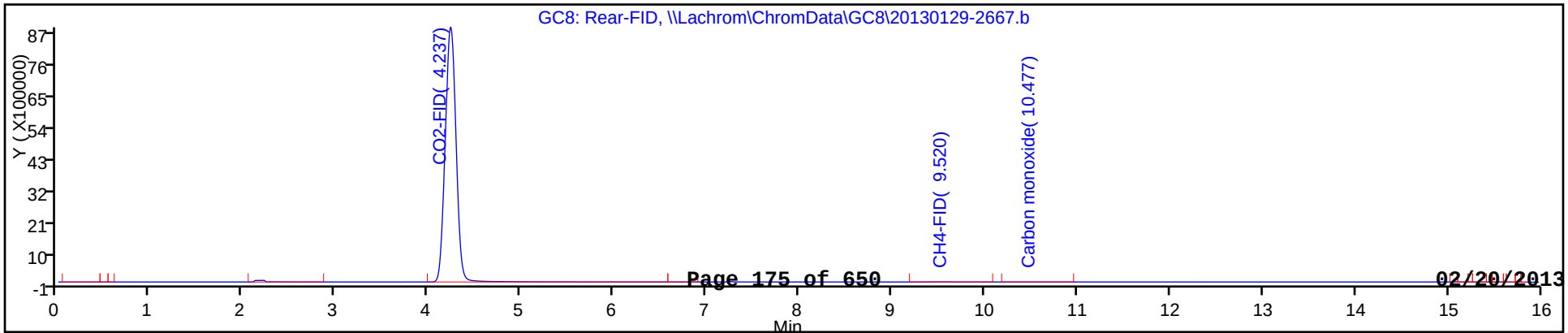
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-2 | Lab Sample ID: 340-5923-7

Matrix: Air | Lab File ID: 340-0002667-013 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 16:30

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 14:55

Soil Aliquot Vol: | Dilution Factor: 1.75

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	2.9		0.018	0.0035
7727-37-9	Nitrogen	77		3.2	1.1
7782-44-7	Oxygen	20		0.35	0.088

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Lims ID:	340-5923-A-7	Client ID:	SVE-01-2
Inject. Date:	29-Jan-2013 14:55:10	Dil. Factor:	1.7500
Sample Type:	Client		
Sample ID:	340-0002667-013		
Misc. Info.:	14.03,24.53,1,0,,340-5923-A-7; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	13
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

First Level Reviewer: iancue Date: 30-Jan-2013 09:51:52

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	89673	16650	
14 CO2-FID						
3	4.237	4.237	0.000	72616305	18591	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						M
1	7.553	7.533	0.020	482653	112572	M
9 Nitrogen						M
1	7.890	7.893	-0.003	3906013	868369	M
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.520	9.527	-0.007	48899	14.2	
7 Carbon monoxide						
3	10.477	10.477	0.000	4123	3.88	

QC Flag Legend

Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

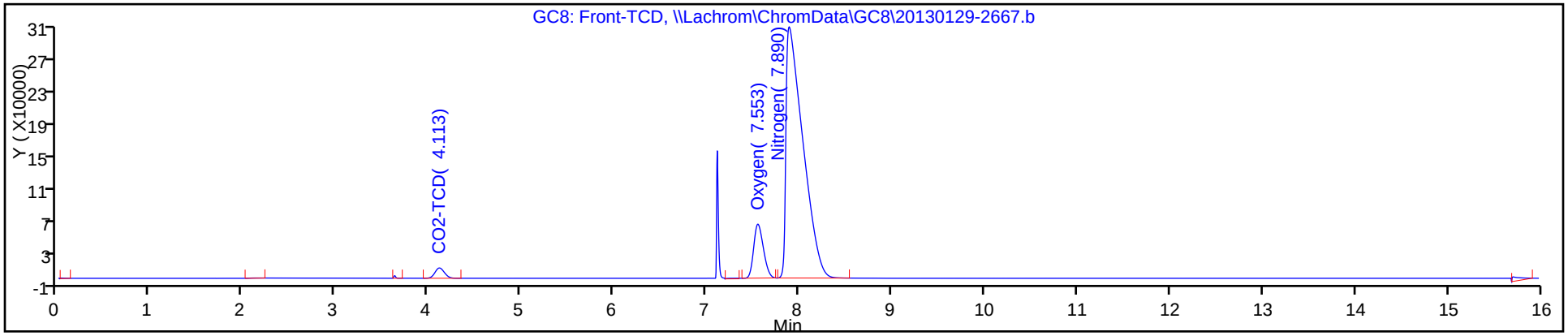
Review Flags
M - Manually Integrated

Report Date: 30-Jan-2013 10:09:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

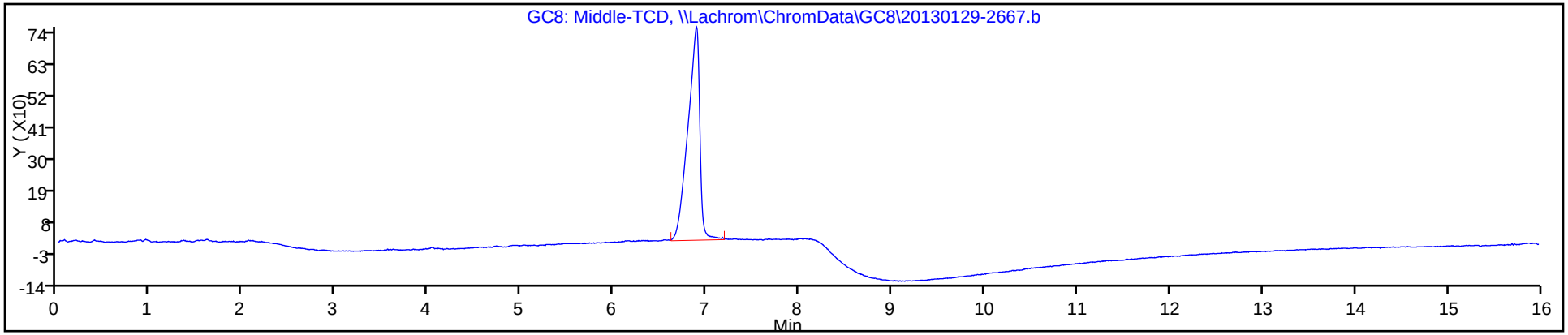
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Injection Date:	29-Jan-2013 14:55:10	Limit Group:	ASTM D-1946
Client ID:	SVE-01-2	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	13
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

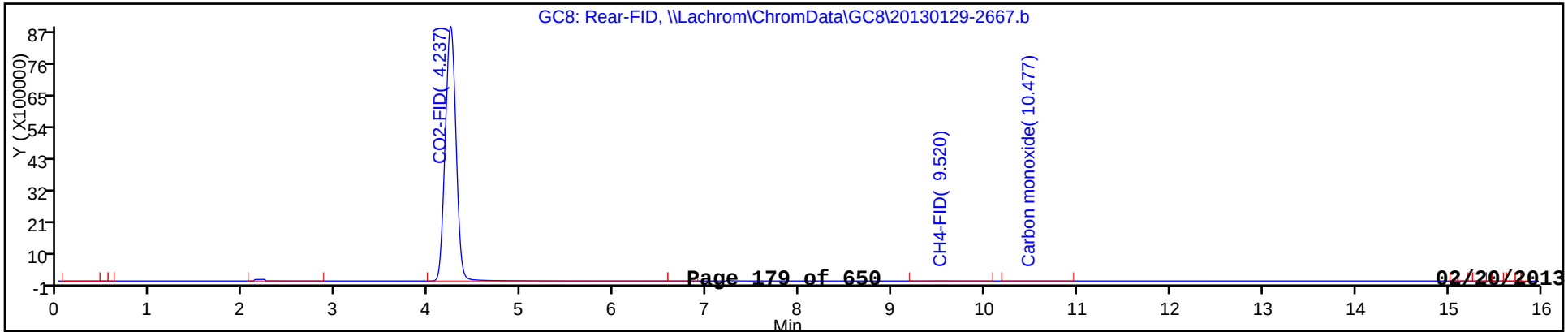
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 30-Jan-2013 10:09:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

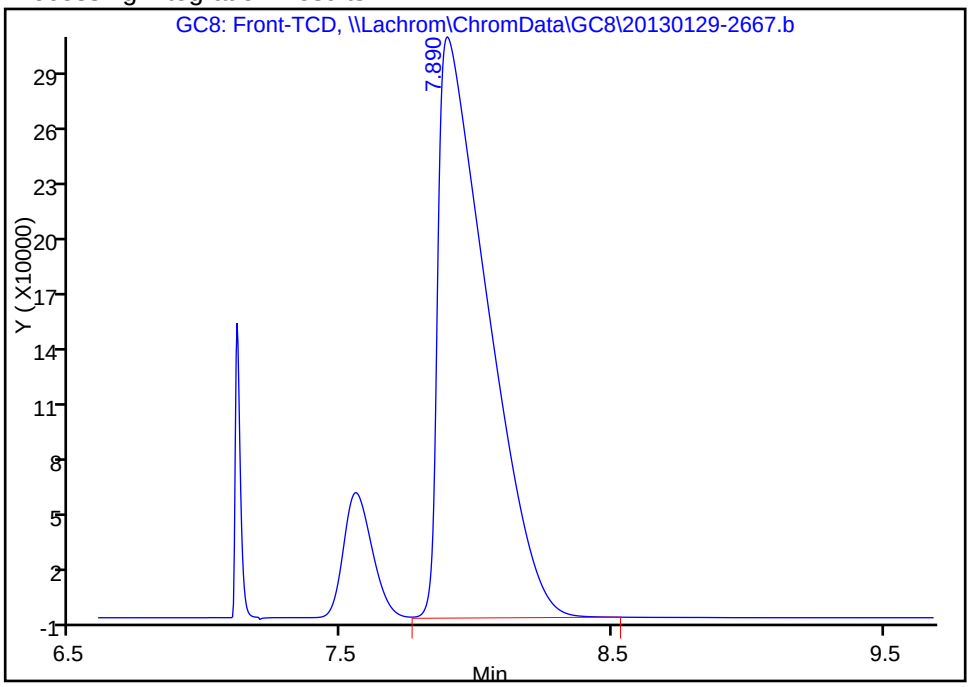
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Injection Date:	29-Jan-2013 14:55:10	Limit Group:	ASTM D-1946
Client ID:	SVE-01-2	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	13
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

9 Nitrogen, Signal: 1, Type: quant, RT: 7.89, Det: Front-TCD

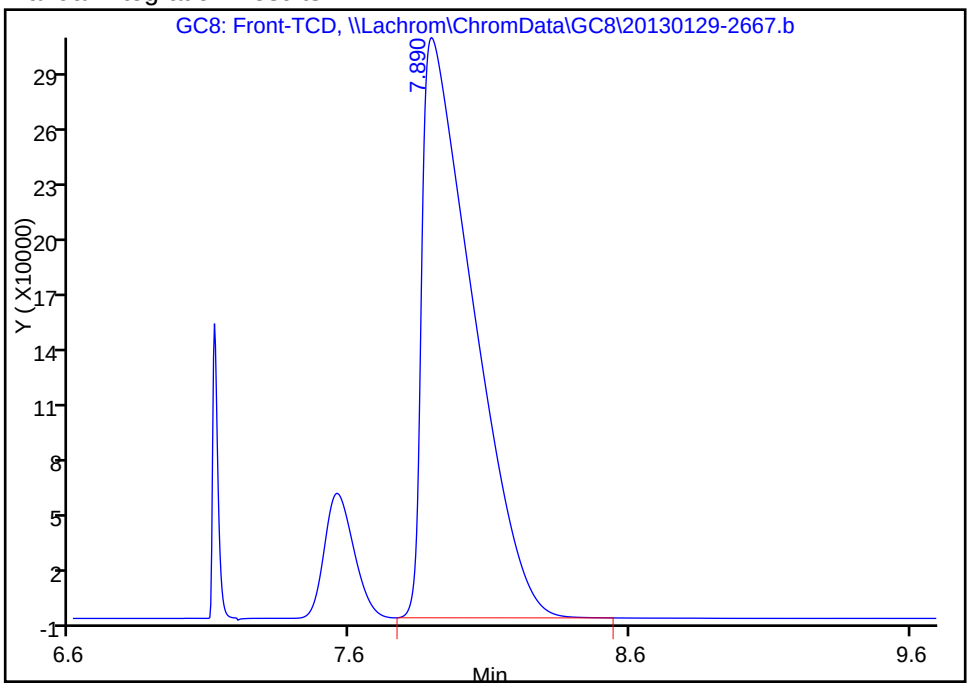
Processing Integration Results

RT: 7.89
Response: 3920470
Amount: 871602



Manual Integration Results

RT: 7.89
Response: 3906013
Amount: 868369



Reviewer: iancue, 30-Jan-2013 09:51:52
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

Report Date: 30-Jan-2013 10:09:46 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

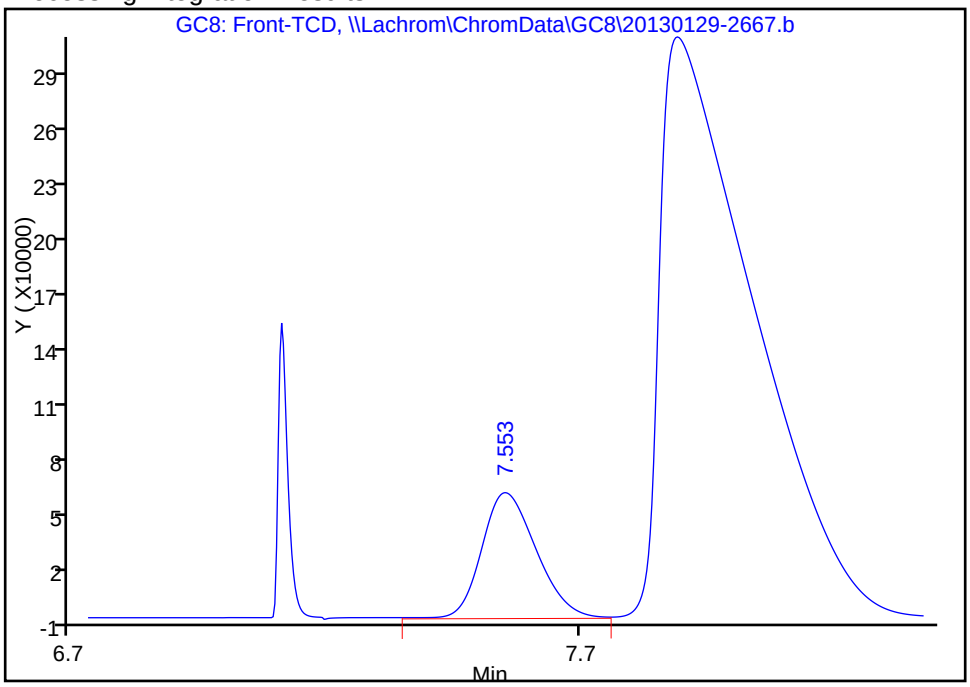
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-013 1-29-2013 2;55;10 pm -1.d		
Injection Date:	29-Jan-2013 14:55:10	Limit Group:	ASTM D-1946
Client ID:	SVE-01-2	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	13
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

2 Oxygen, Signal: 1, Type: quant, RT: 7.53, Det: Front-TCD

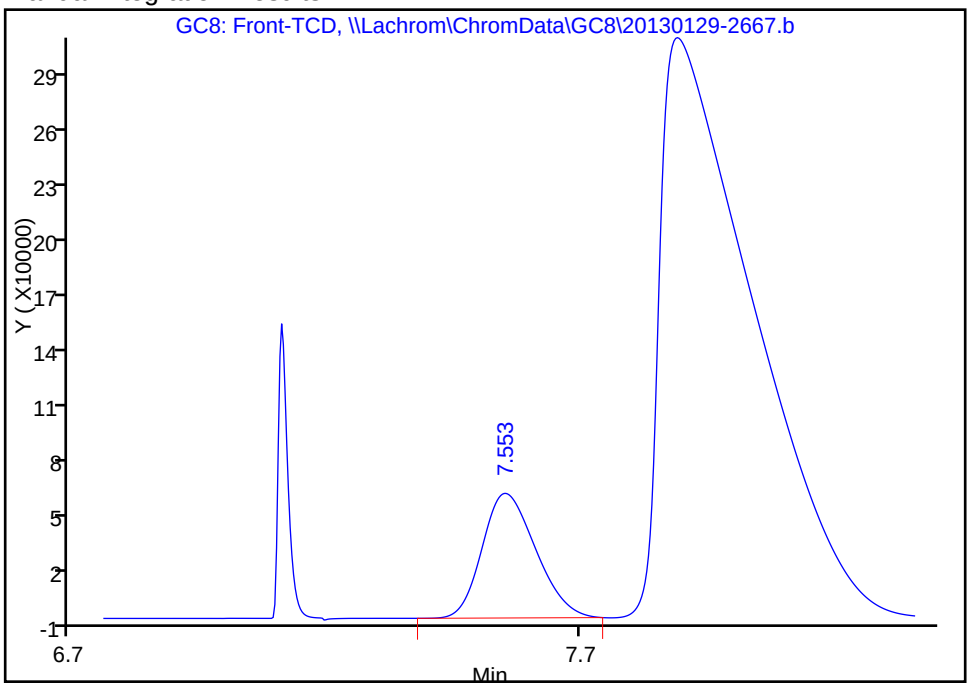
Processing Integration Results

RT: 7.55
Response: 499714
Amount: 116570



Manual Integration Results

RT: 7.55
Response: 482653
Amount: 112572



Reviewer: iancue, 30-Jan-2013 09:51:52
Audit Action: Manually Integrated
Audit Reason: Baseline Smoothing

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-3 Lab Sample ID: 340-5923-8

Matrix: Air Lab File ID: 340-0002667-014 1-29-2013

Analysis Method: D1946 Date Collected: 01/22/2013 19:00

Sample wt/vol: 1(mL) Date Analyzed: 01/29/2013 15:13

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3886 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	ND		0.0017	0.00037
74-84-0	Ethane	ND		0.00092	0.00022
74-85-1	Ethene	ND		0.00092	0.00028
74-82-8	Methane (FID)	0.0025		0.00074	0.00022

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-014 1-29-2013 3;13;47 pm -1.d		
Lims ID:	340-5923-A-8	Client ID:	SVE-01-3
Inject. Date:	29-Jan-2013 15:13:47	Dil. Factor:	1.8400
Sample Type:	Client		
Sample ID:	340-0002667-014		
Misc. Info.:	13.48,24.87,1,0,,340-5923-A-8; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	14
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	86752	16140	
14 CO2-FID						
3	4.237	4.237	0.000	70262096	17989	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.533	0.020	471460	109949	
9 Nitrogen						
1	7.890	7.893	-0.003	3926890	873037	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.523	9.527	-0.004	47595	13.8	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

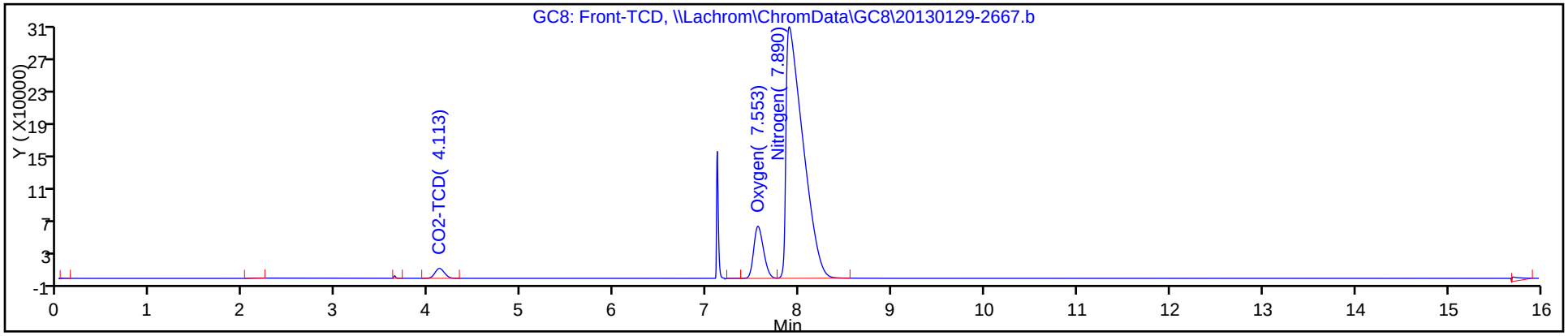
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

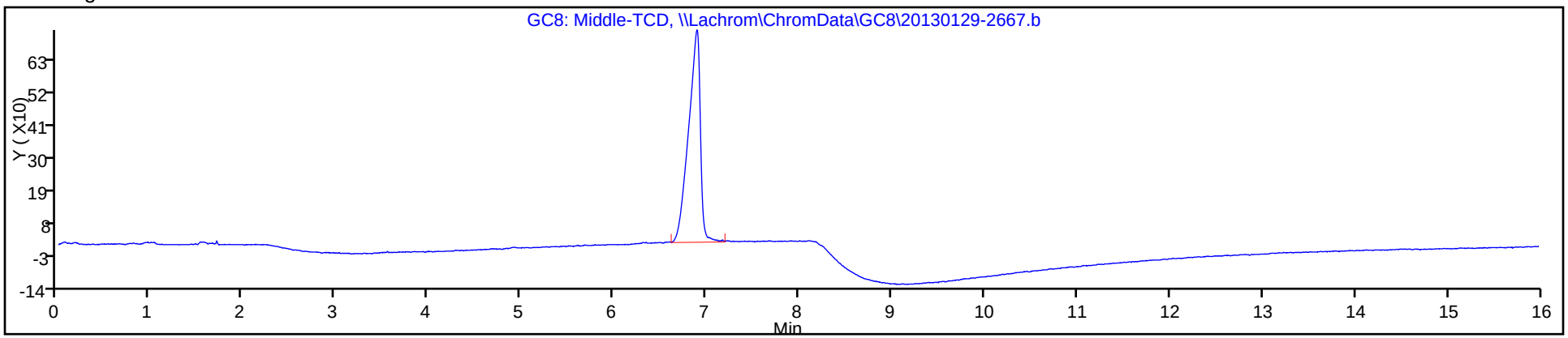
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-014 1-29-2013 3;13;47 pm -1.d		
Injection Date:	29-Jan-2013 15:13:47	Limit Group:	ASTM D-1946
Client ID:	SVE-01-3	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	14
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

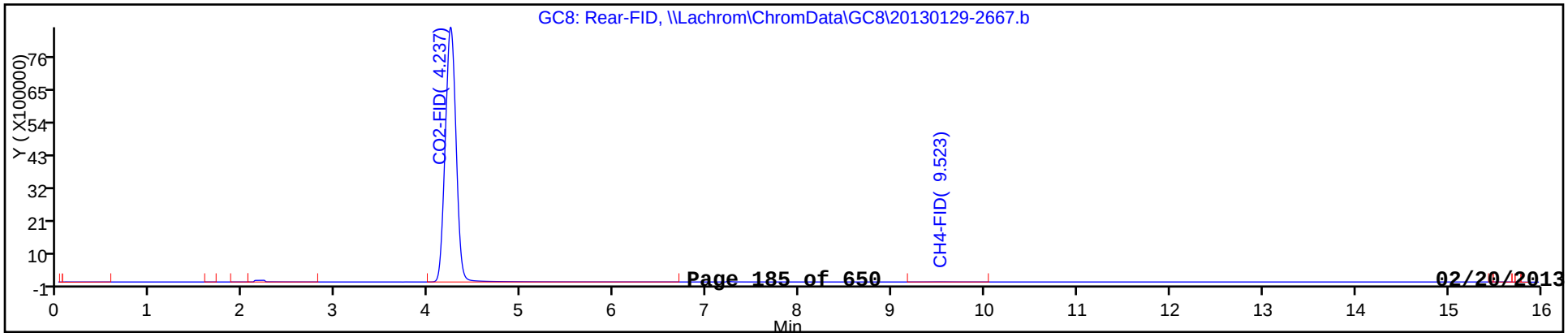
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-3 Lab Sample ID: 340-5923-8

Matrix: Air Lab File ID: 340-0002667-014 1-29-2013

Analysis Method: D1946 Date Collected: 01/22/2013 19:00

Sample wt/vol: 1(mL) Date Analyzed: 01/29/2013 15:13

Soil Aliquot Vol: Dilution Factor: 1.84

Soil Extract Vol.: GC Column: ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3886 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	3.0		0.018	0.0037
7727-37-9	Nitrogen	76		3.3	1.1
7782-44-7	Oxygen	20		0.37	0.092

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-014 1-29-2013 3;13;47 pm -1.d		
Lims ID:	340-5923-A-8	Client ID:	SVE-01-3
Inject. Date:	29-Jan-2013 15:13:47	Dil. Factor:	1.8400
Sample Type:	Client		
Sample ID:	340-0002667-014		
Misc. Info.:	13.48,24.87,1,0,,340-5923-A-8; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	14
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	86752	16140	
14 CO2-FID						
3	4.237	4.237	0.000	70262096	17989	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.533	0.020	471460	109949	
9 Nitrogen						
1	7.890	7.893	-0.003	3926890	873037	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.523	9.527	-0.004	47595	13.8	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

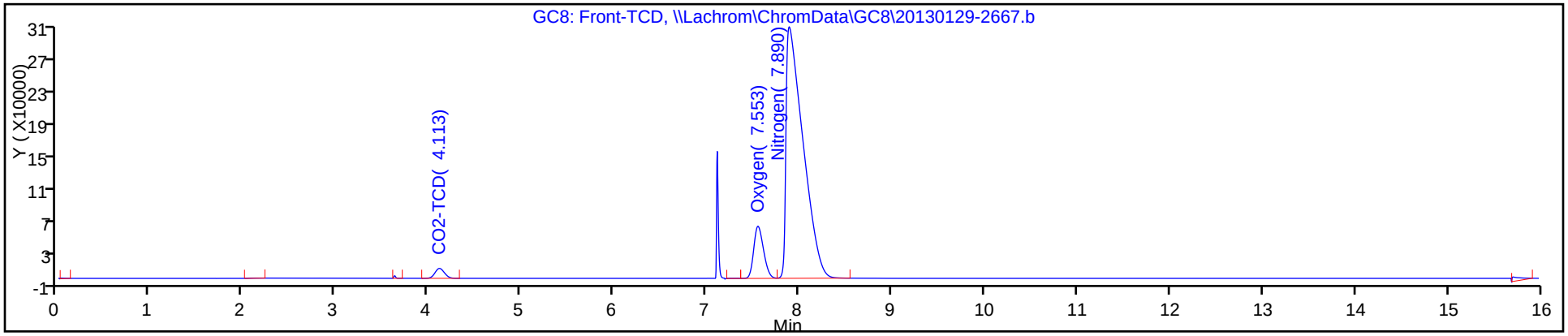
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

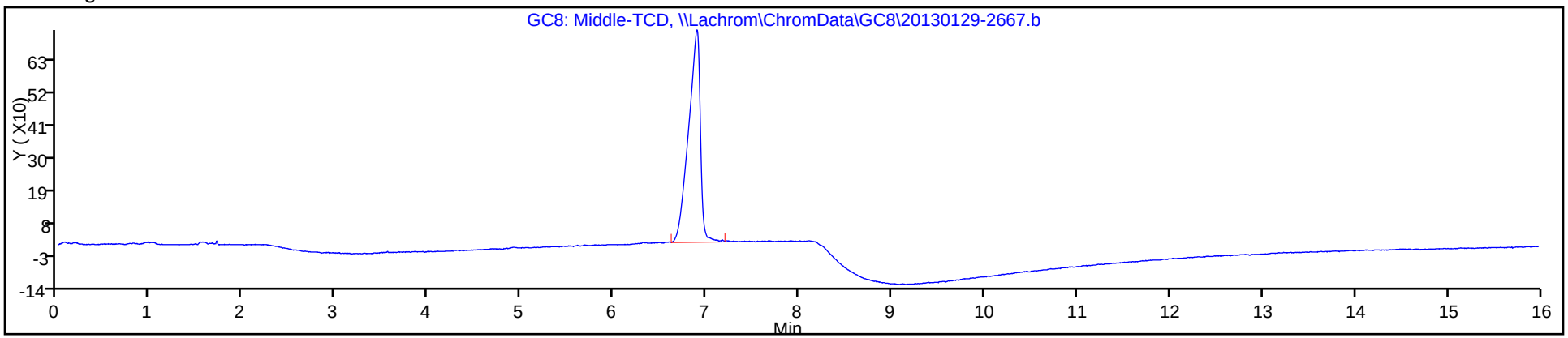
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-014 1-29-2013 3;13;47 pm -1.d		
Injection Date:	29-Jan-2013 15:13:47	Limit Group:	ASTM D-1946
Client ID:	SVE-01-3	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	14
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

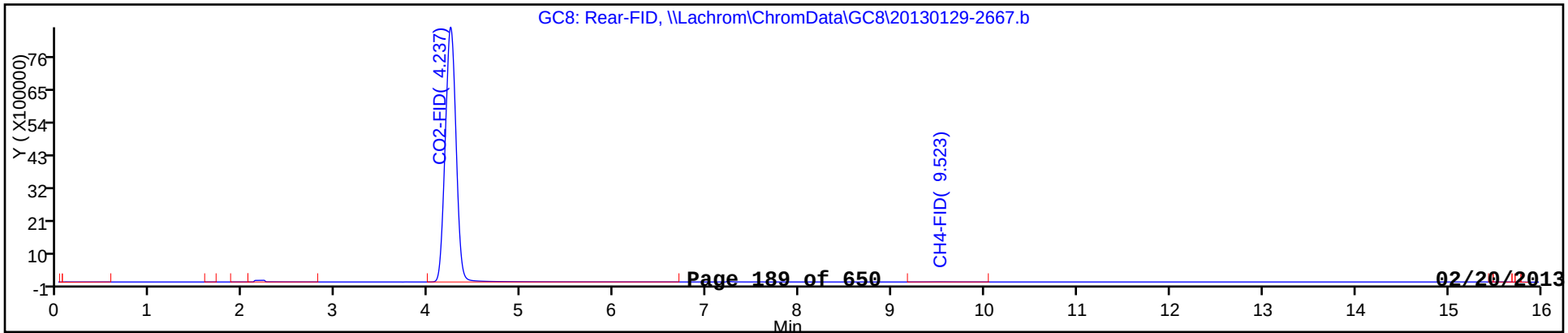
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-4 | Lab Sample ID: 340-5923-9

Matrix: Air | Lab File ID: 340-0002667-015 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 20:00

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 15:33

Soil Aliquot Vol: | Dilution Factor: 1.98

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	ND		0.0018	0.00040
74-84-0	Ethane	ND		0.00099	0.00024
74-85-1	Ethene	ND		0.00099	0.00030
74-82-8	Methane (FID)	0.0025		0.00079	0.00024

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-015 1-29-2013 3;33;09 pm -1.d
Lims ID: 340-5923-A-9 Client ID: SVE-01-4
Inject. Date: 29-Jan-2013 15:33:09 Dil. Factor: 1.9800
Sample Type: Client
Sample ID: 340-0002667-015
Misc. Info.: 12.24,24.26,1,0,,340-5923-A-9; EI
Operator: EI Instrument ID: GC8
Injection Vol: 1.0 mL ALS Bottle#: 0
Lims Batch ID: 3886 Lims Sample ID: 15
Detector 1 : GC8: Front-TCD
Detector 2 : GC8: Middle-TCD
Detector 3 : GC8: Rear-FID

Method: \\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m
Method Label: D1946 Sample Report
Last Update: 30-Jan-2013 10:09:36 Calib Date: 29-Nov-2012 13:23:46
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d
Limit Group: ASTM D-1946
Integrator: Falcon
Column Type: Column Dia:
Process Host: XAWRK023

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	79761	14921	
14 CO2-FID						
3	4.233	4.237	-0.004	64856448	16606	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.533	0.020	438132	102139	
9 Nitrogen						
1	7.887	7.893	-0.006	3971655	883048	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.530	9.527	0.003	43913	12.9	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

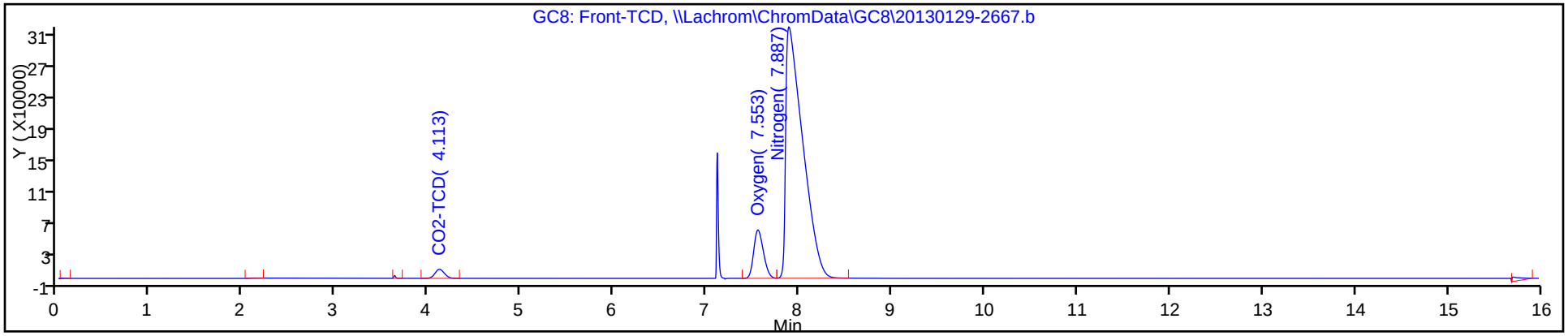
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

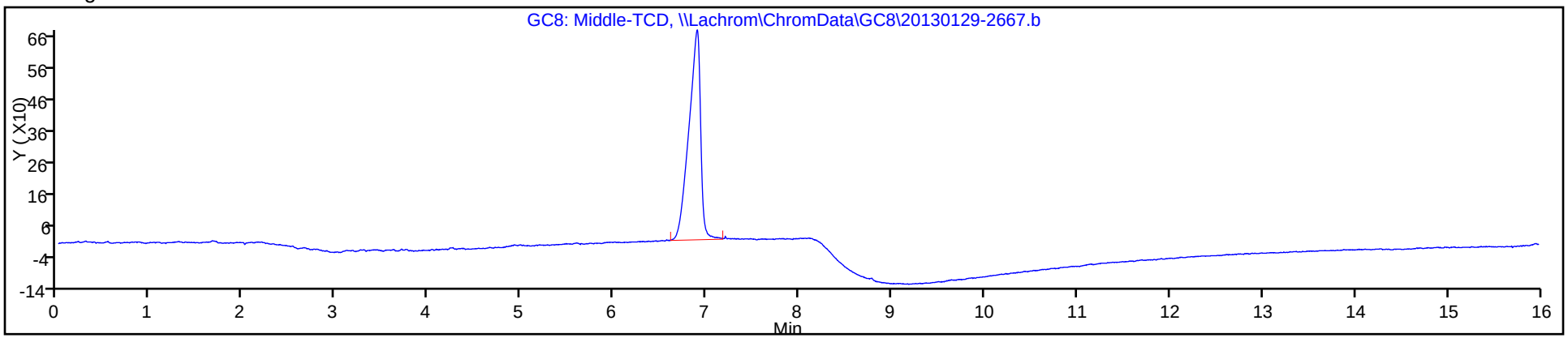
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-015 1-29-2013 3;33;09 pm -1.d		
Injection Date:	29-Jan-2013 15:33:09	Limit Group:	ASTM D-1946
Client ID:	SVE-01-4	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	15
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

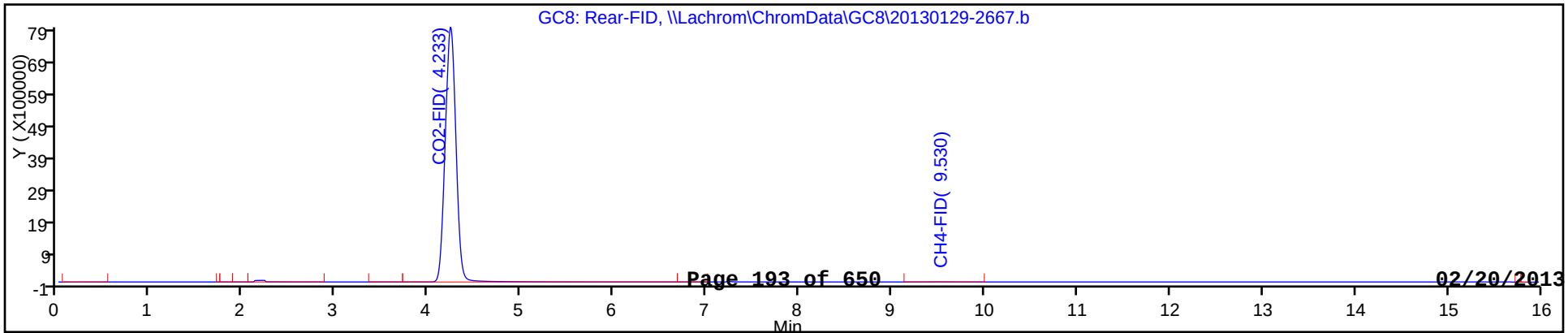
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-4 | Lab Sample ID: 340-5923-9

Matrix: Air | Lab File ID: 340-0002667-015 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 20:00

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 15:33

Soil Aliquot Vol: | Dilution Factor: 1.98

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	3.0		0.020	0.0040
7727-37-9	Nitrogen	77		3.6	1.2
7782-44-7	Oxygen	20		0.40	0.099

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-015 1-29-2013 3;33;09 pm -1.d		
Lims ID:	340-5923-A-9	Client ID:	SVE-01-4
Inject. Date:	29-Jan-2013 15:33:09	Dil. Factor:	1.9800
Sample Type:	Client		
Sample ID:	340-0002667-015		
Misc. Info.:	12.24,24.26,1,0,,340-5923-A-9; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	15
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	79761	14921	
14 CO2-FID						
3	4.233	4.237	-0.004	64856448	16606	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.553	7.533	0.020	438132	102139	
9 Nitrogen						
1	7.887	7.893	-0.006	3971655	883048	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.530	9.527	0.003	43913	12.9	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

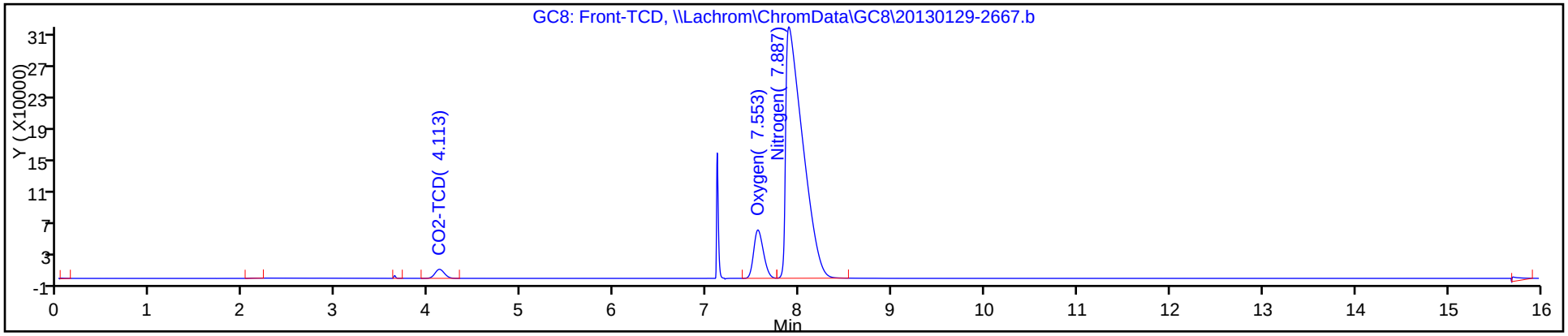
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

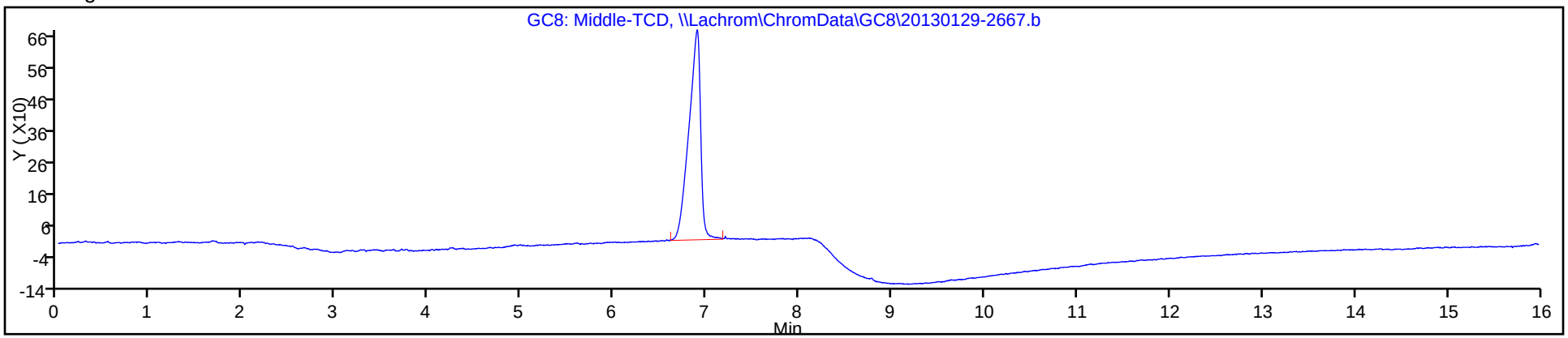
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-015 1-29-2013 3;33;09 pm -1.d		
Injection Date:	29-Jan-2013 15:33:09	Limit Group:	ASTM D-1946
Client ID:	SVE-01-4	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	15
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



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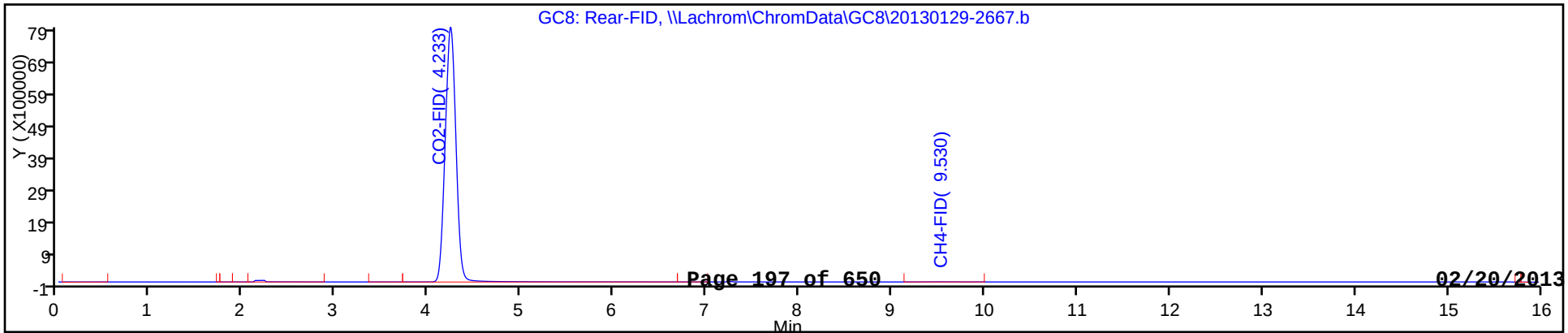


FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-5 | Lab Sample ID: 340-5923-10

Matrix: Air | Lab File ID: 340-0002667-016 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 21:00

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 15:52

Soil Aliquot Vol: | Dilution Factor: 1.83

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
630-08-0	Carbon monoxide	ND		0.0017	0.00037
74-84-0	Ethane	ND		0.00092	0.00022
74-85-1	Ethene	ND		0.00092	0.00027
74-82-8	Methane (FID)	0.0026		0.00073	0.00022

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-016 1-29-2013 3;52;40 pm -1.d		
Lims ID:	340-5923-A-10	Client ID:	SVE-01-5
Inject. Date:	29-Jan-2013 15:52:40	Dil. Factor:	1.8300
Sample Type:	Client		
Sample ID:	340-0002667-016		
Misc. Info.:	13.70,25.03,1,0,,340-5923-A-10; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	16
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	85181	15866	
14 CO2-FID						
3	4.233	4.237	-0.004	69219970	17723	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.550	7.533	0.017	465851	108635	
9 Nitrogen						
1	7.887	7.893	-0.006	3936260	875133	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.520	9.527	-0.007	48419	14.0	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

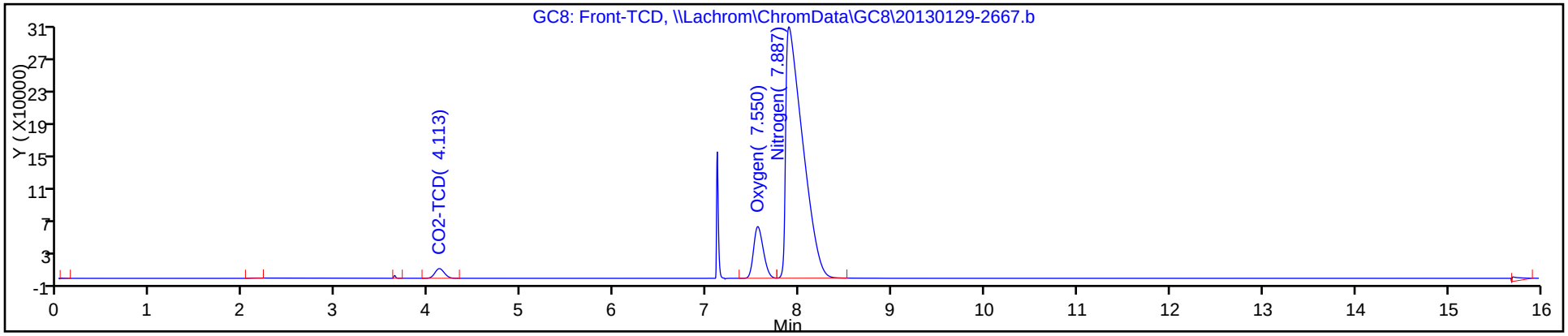
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

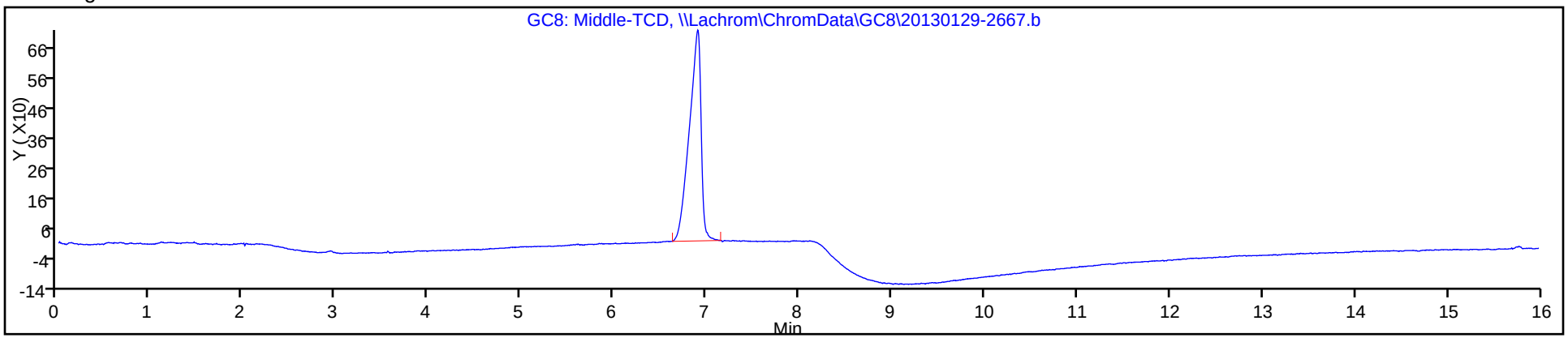
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-016 1-29-2013 3;52;40 pm -1.d		
Injection Date:	29-Jan-2013 15:52:40	Limit Group:	ASTM D-1946
Client ID:	SVE-01-5	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



Y Scaling:



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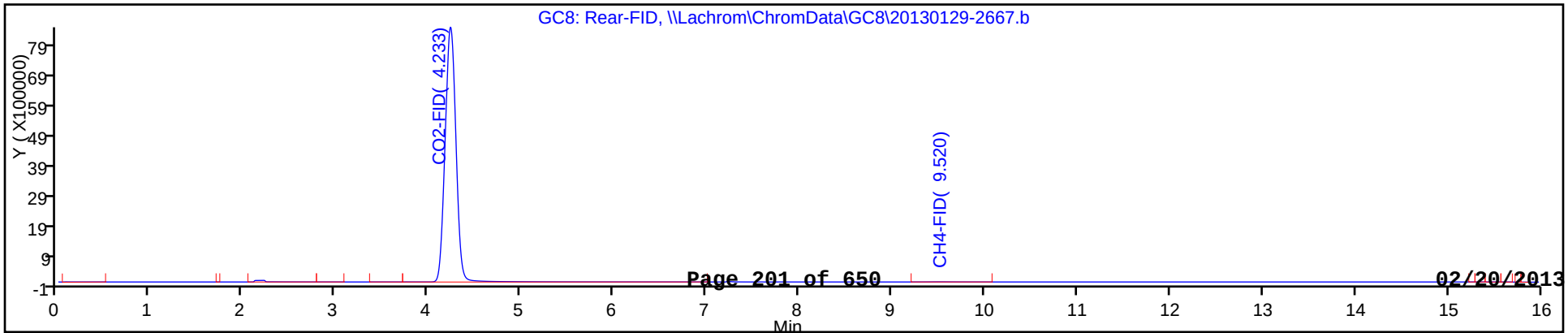


FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-5 | Lab Sample ID: 340-5923-10

Matrix: Air | Lab File ID: 340-0002667-016 1-29-2013

Analysis Method: D1946 | Date Collected: 01/22/2013 21:00

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 15:52

Soil Aliquot Vol: | Dilution Factor: 1.83

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	2.9		0.018	0.0037
7727-37-9	Nitrogen	77		3.3	1.1
7782-44-7	Oxygen	20		0.37	0.092

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-016 1-29-2013 3;52;40 pm -1.d		
Lims ID:	340-5923-A-10	Client ID:	SVE-01-5
Inject. Date:	29-Jan-2013 15:52:40	Dil. Factor:	1.8300
Sample Type:	Client		
Sample ID:	340-0002667-016		
Misc. Info.:	13.70,25.03,1,0,,340-5923-A-10; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	16
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.113	4.083	0.030	85181	15866	
14 CO2-FID						
3	4.233	4.237	-0.004	69219970	17723	E
5 Ethylene						1
3		4.827				
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
2 Oxygen						
1	7.550	7.533	0.017	465851	108635	
9 Nitrogen						
1	7.887	7.893	-0.006	3936260	875133	
12 CH4-TCD						1
1		9.397				
11 CH4-FID						
3	9.520	9.527	-0.007	48419	14.0	
7 Carbon monoxide						1
3		10.477				

QC Flag Legend

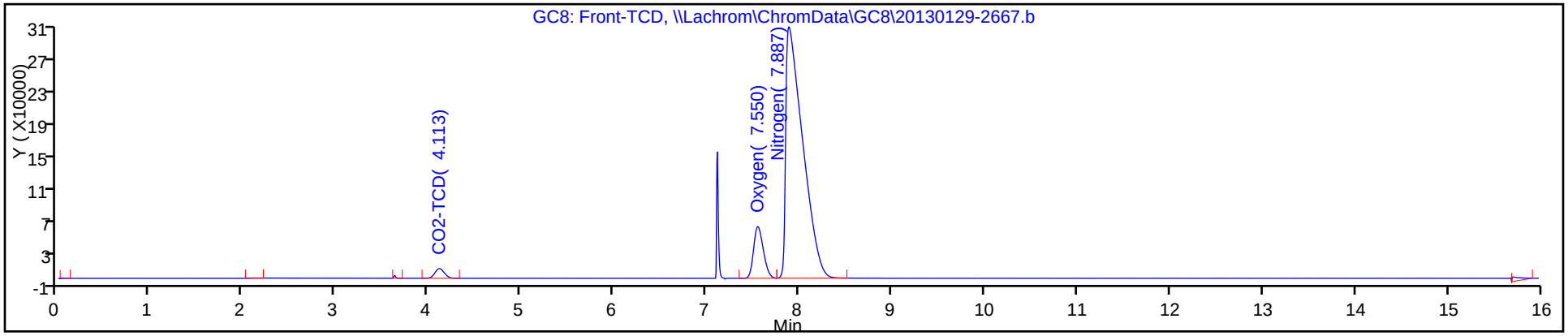
Processing Flags
1 - Missing Peaks
E - Exceeded Maximum Amount

Report Date: 30-Jan-2013 10:09:49 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-016 1-29-2013 3;52;40 pm -1.d		
Injection Date:	29-Jan-2013 15:52:40	Limit Group:	ASTM D-1946
Client ID:	SVE-01-5	Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

Y Scaling:



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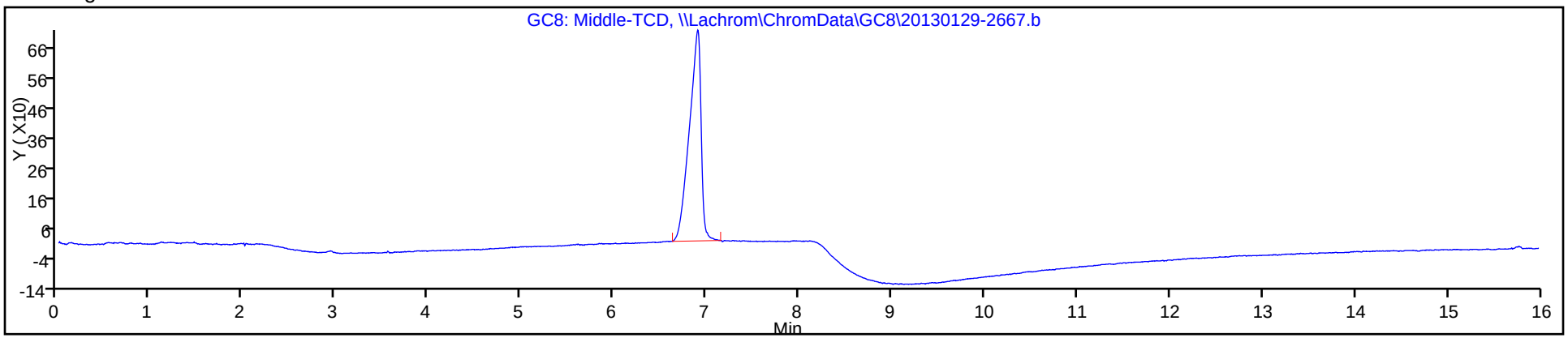

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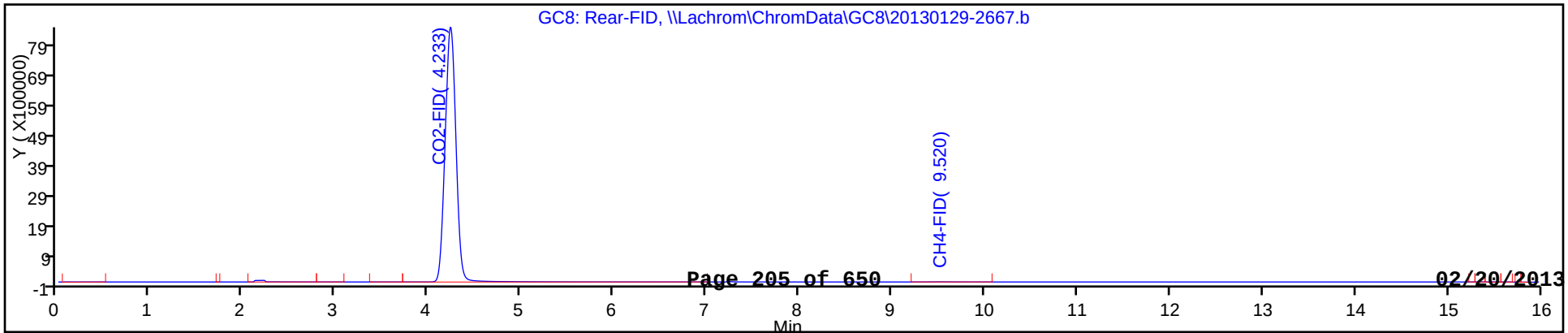


FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2334

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/08/2012 16:18 Calibration End Date: 08/08/2012 18:10 Calibration ID: 553

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2334/10	340-0001636-010
Level 2	STD02 340-2334/11	340-0001636-011
Level 3	STD03 340-2334/12	340-0001636-012
Level 4	STD04 340-2334/13	340-0001636-013
Level 5	STD05 340-2334/14	340-0001636-014
Level 6	STD07 340-2334/16	340-0001636-016
Level 7	STD06 340-2334/15	340-0001636-015

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Carbon Dioxide (TCD)	4.300	4.297	4.263	4.143	4.043		3.910				3.843 - 4.443	4.159
Methane (TCD)	9.567	9.567	9.540	9.423	9.300	9.143					8.723 - 10.123	9.423

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2334

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/08/2012 16:18 Calibration End Date: 08/08/2012 18:10 Calibration ID: 553

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2334/10	340-0001636-010
Level 2	STD02 340-2334/11	340-0001636-011
Level 3	STD03 340-2334/12	340-0001636-012
Level 4	STD04 340-2334/13	340-0001636-013
Level 5	STD05 340-2334/14	340-0001636-014
Level 6	STD07 340-2334/16	340-0001636-016
Level 7	STD06 340-2334/15	340-0001636-015

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		B	M1	M2								
Carbon Dioxide (TCD)	4.7527 5.8237	4.8233	5.5141 5.9602	5.6292	Lin2	-5760.0041	5.73177260							0.9980		0.9900
Methane (TCD)	2.8786 3.6721	3.0579 3.6541	3.5392	3.6291	Lin2	-4120.3243	3.63196432							0.9990		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 Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2334

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 08/08/2012 16:18 Calibration End Date: 08/08/2012 18:10 Calibration ID: 553

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2334/10	340-0001636-010
Level 2	STD02 340-2334/11	340-0001636-011
Level 3	STD03 340-2334/12	340-0001636-012
Level 4	STD04 340-2334/13	340-0001636-013
Level 5	STD05 340-2334/14	340-0001636-014
Level 6	STD07 340-2334/16	340-0001636-016
Level 7	STD06 340-2334/15	340-0001636-015

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Carbon Dioxide (TCD)	Lin2	23716	48137 5948307	275154	1404487	2906049	4990	9980 998000	49900	249500	499000
Methane (TCD)	Lin2	14249 3617516	30273	175189	898196	1817671	4950 990000	9900	49500	247500	495000

Curve Type Legend:

Lin2 = Linear 1/conc^2

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-010 8-8-2012 4;18;09 pm -1.d		
Lims ID:	STD01	Client ID:	
Inject. Date:	08-Aug-2012 16:18:09	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	340-0001636-010		
Misc. Info.:	GCFGTCDCAL1_00002; 0.5% CO2/CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	10
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:16	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 09-Aug-2012 09:56:22

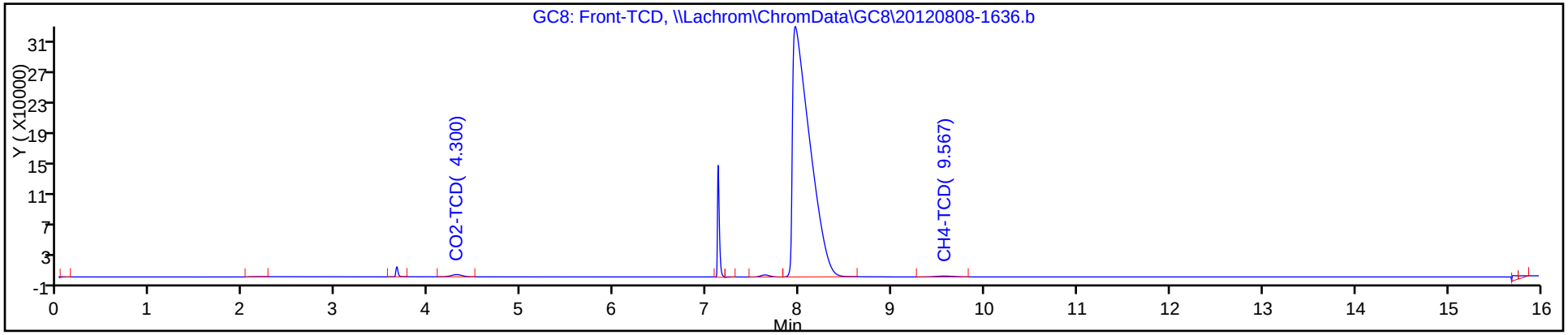
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.300	4.143	0.157	23716	5142.6	
12 CH4-TCD						
1	9.567	9.423	0.144	14249	5057.7	

Report Date: 09-Aug-2012 14:28:16 Chrom Revision: 2.0 15-Jul-2012 07:31:48

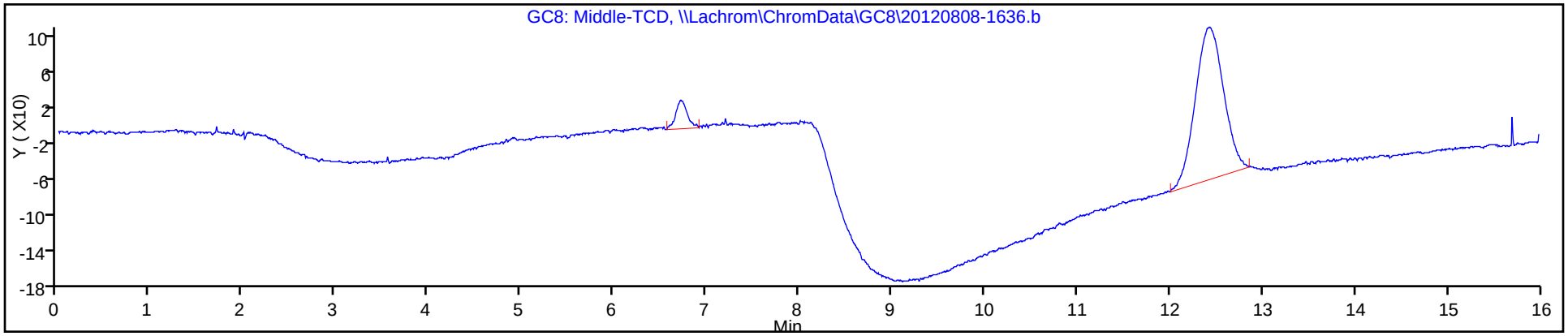
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-010 8-8-2012 4;18;09 pm -1.d

Injection Date:	08-Aug-2012 16:18:09	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	10
Operator ID:	EI	Injection Vol:	1.00 ul

Y Scaling:



Y Scaling:



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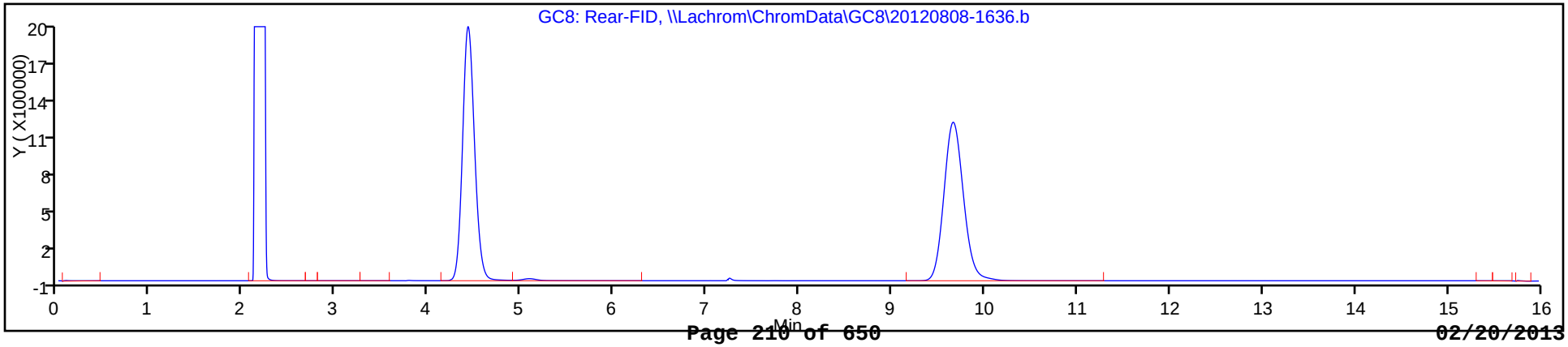


TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-011 8-8-2012 4;35;52 pm -1.d		
Lims ID:	STD02	Client ID:	
Inject. Date:	08-Aug-2012 16:35:52	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	340-0001636-011		
Misc. Info.:	GCFGTCDCAL2_00002; 1% CO2/CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	11
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:16	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

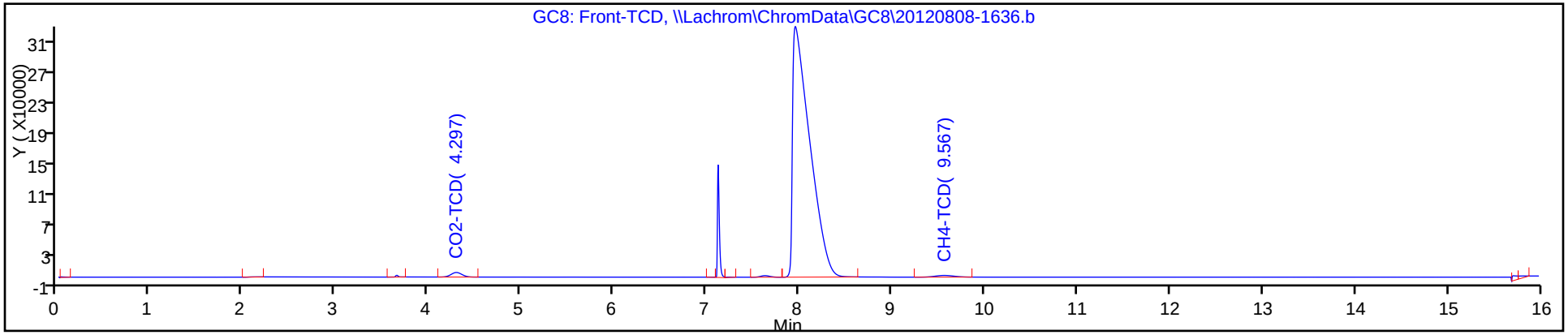
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.297	4.143	0.154	48137	9403.2	
12 CH4-TCD						
1	9.567	9.423	0.144	30273	9469.6	

Report Date: 09-Aug-2012 14:28:16 Chrom Revision: 2.0 15-Jul-2012 07:31:48

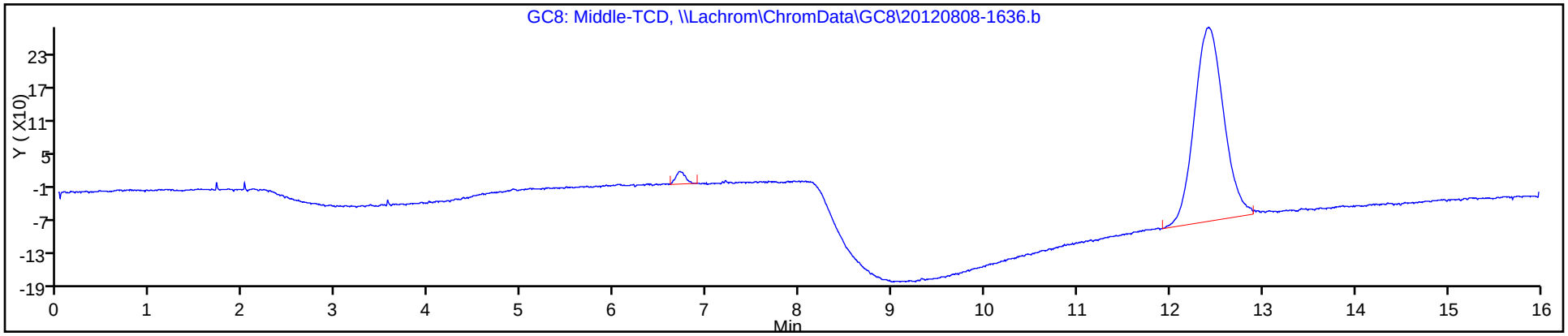
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-011 8-8-2012 4;35;52 pm -1.d

Injection Date:	08-Aug-2012 16:35:52	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	11
Operator ID:	EI	Injection Vol:	1.00 ul

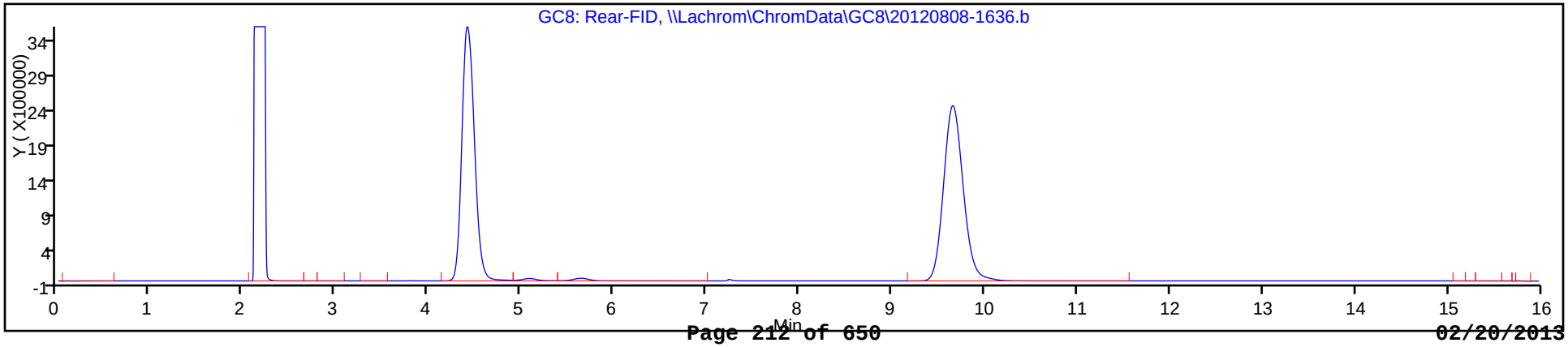
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-012 8-8-2012 4;56;03 pm -1.d		
Lims ID:	STD03	Client ID:	
Inject. Date:	08-Aug-2012 16:56:03	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	340-0001636-012		
Misc. Info.:	GCFGTCDCAL3_00002; 5% CO2/CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	12
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:17	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

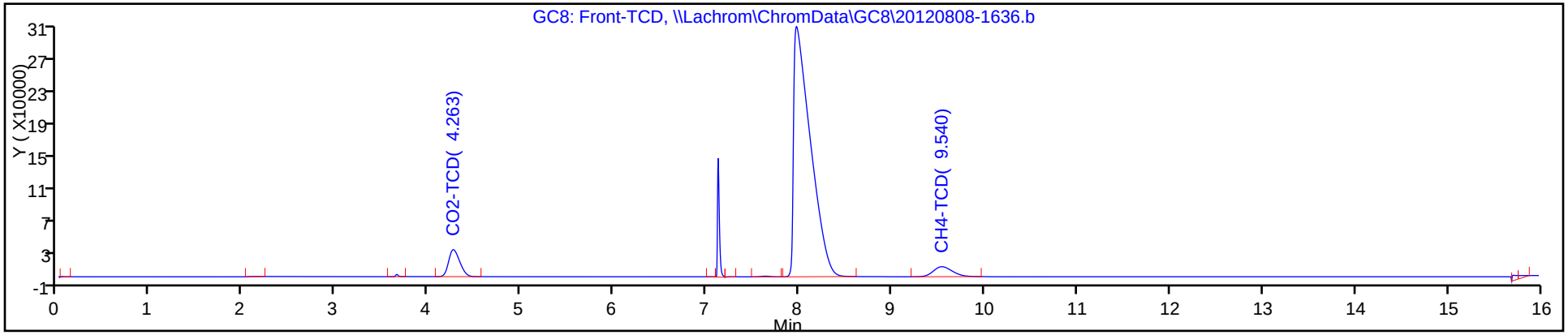
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.263	4.143	0.120	275154	49010	
12 CH4-TCD						
1	9.540	9.423	0.117	175189	49370	

Report Date: 09-Aug-2012 14:28:17 Chrom Revision: 2.0 15-Jul-2012 07:31:48

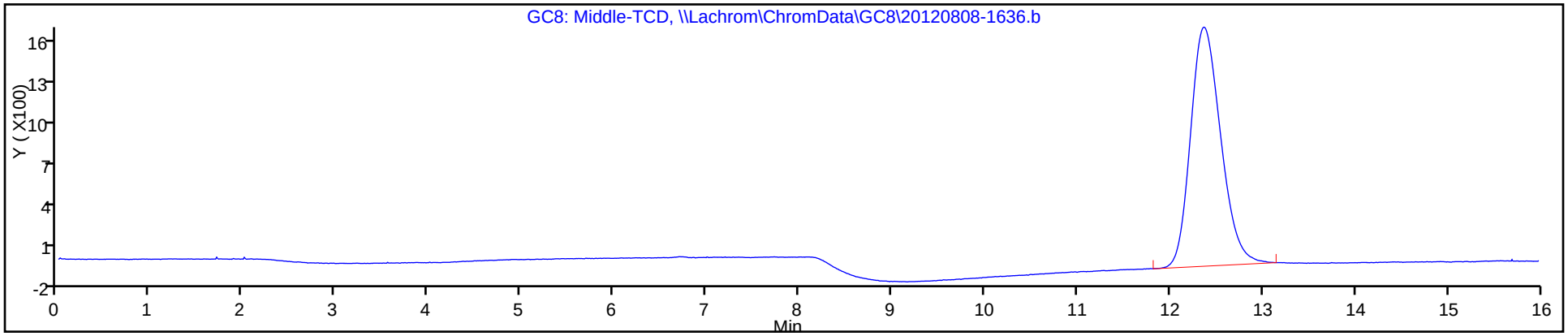
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-012 8-8-2012 4;56;03 pm -1.d

Injection Date:	08-Aug-2012 16:56:03	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	12
Operator ID:	EI	Injection Vol:	1.00 ul

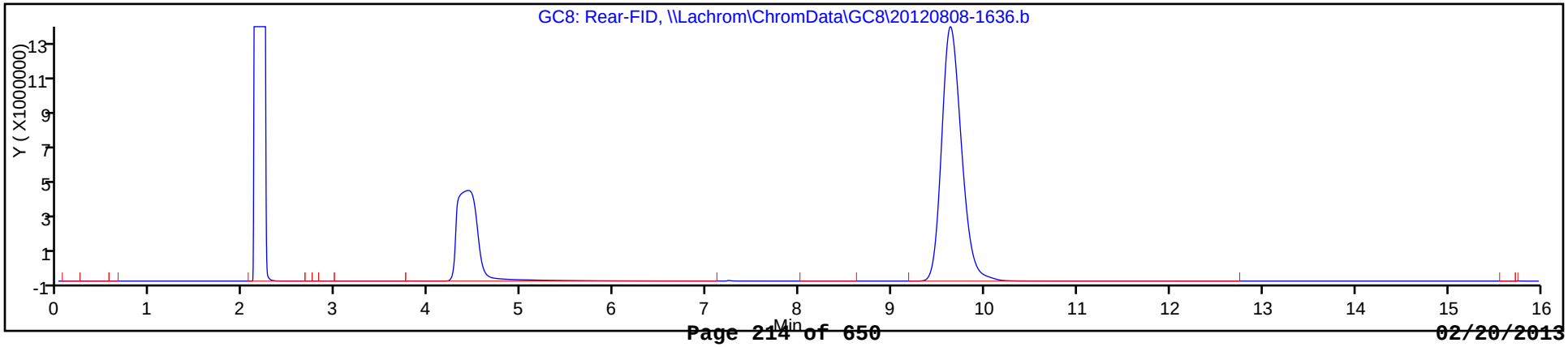
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-013 8-8-2012 5;15;15 pm -1.d		
Lims ID:	STD04	Client ID:	
Inject. Date:	08-Aug-2012 17:15:15	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	340-0001636-013		
Misc. Info.:	GCFGTCDCAL4_00002; 25% CO2/CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	13
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:18	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

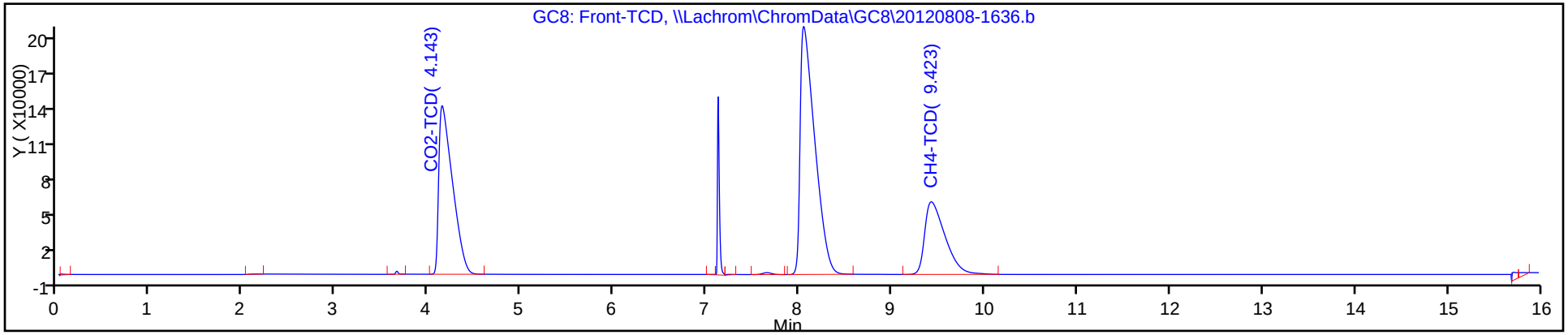
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.143	4.143	0.000	1404487	246040	
12 CH4-TCD						
1	9.423	9.423	0.000	898196	248438	

Report Date: 09-Aug-2012 14:28:18 Chrom Revision: 2.0 15-Jul-2012 07:31:48

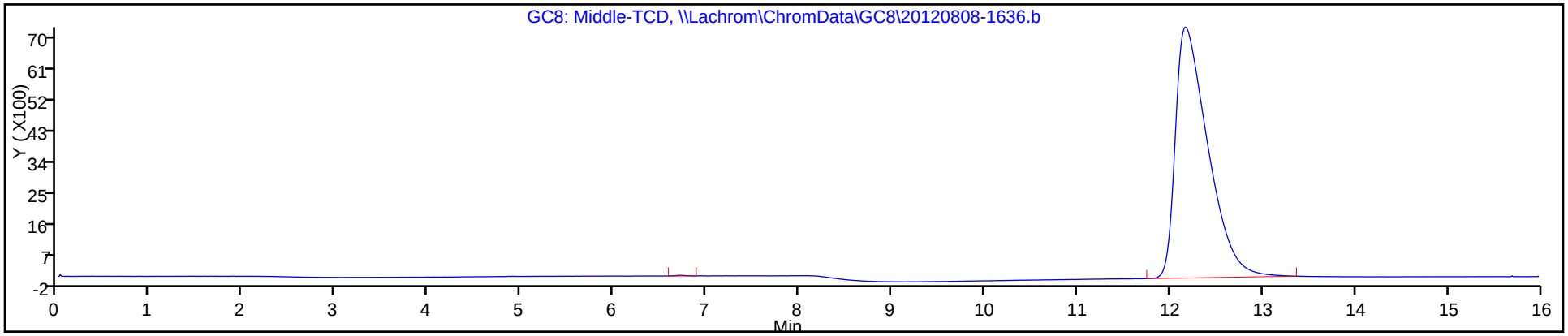
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-013 8-8-2012 5;15;15 pm -1.d

Injection Date:	08-Aug-2012 17:15:15	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	13
Operator ID:	EI	Injection Vol:	1.00 ul

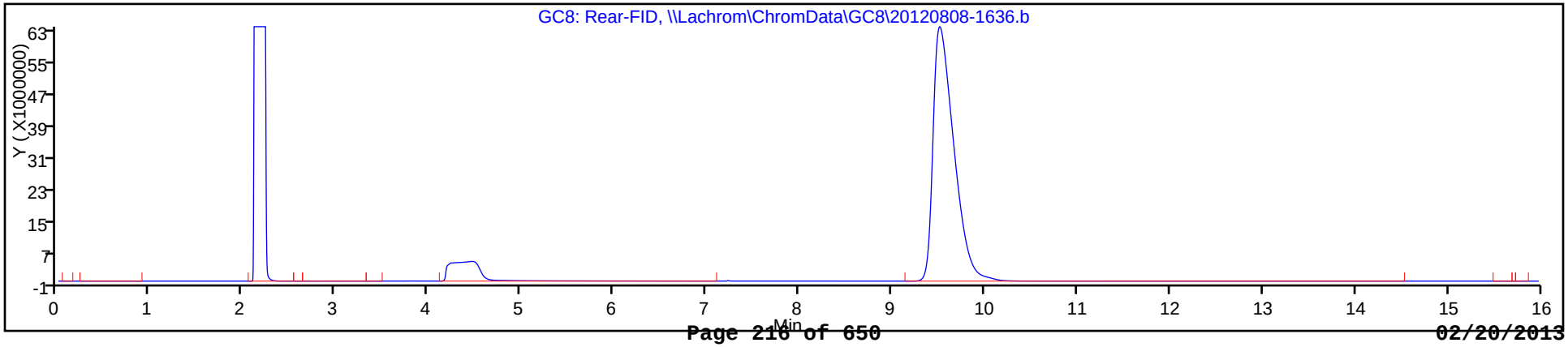
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-014 8-8-2012 5;33;03 pm -1.d		
Lims ID:	STD05	Client ID:	
Inject. Date:	08-Aug-2012 17:33:03	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	340-0001636-014		
Misc. Info.:	GCFGTCDCAL5_00002; 50% CO2/CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	14
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:18	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

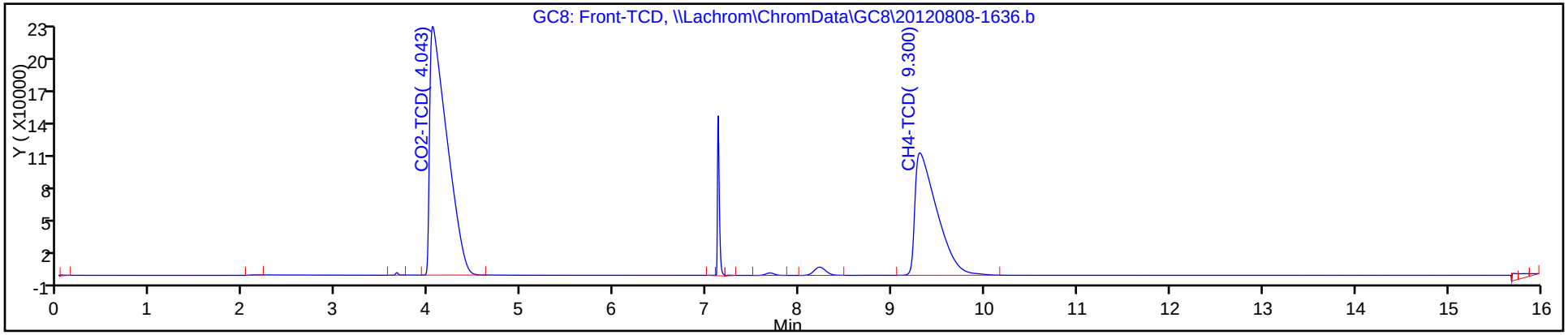
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.043	4.143	-0.100	2906049	508012	
12 CH4-TCD						
1	9.300	9.423	-0.123	1817671	501599	

Report Date: 09-Aug-2012 14:28:18 Chrom Revision: 2.0 15-Jul-2012 07:31:48

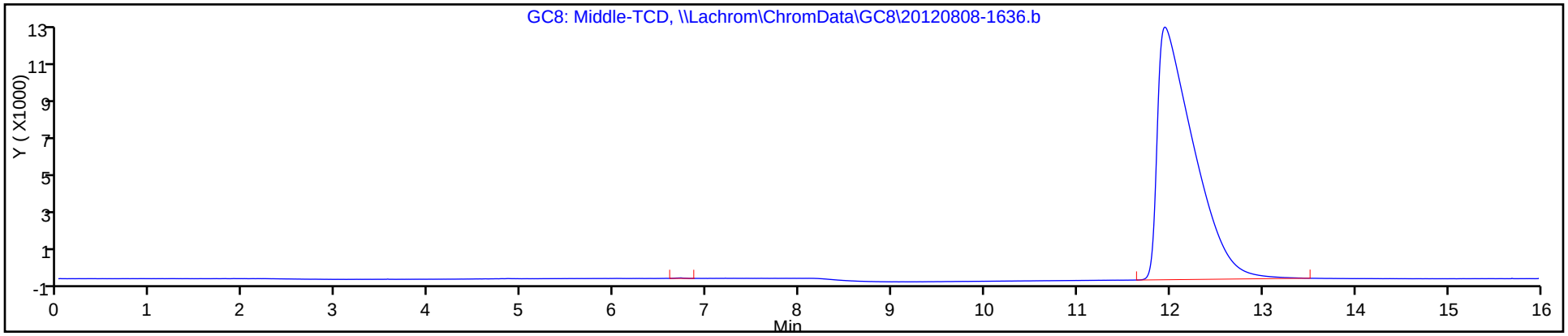
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-014 8-8-2012 5;33;03 pm -1.d

Injection Date:	08-Aug-2012 17:33:03	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	14
Operator ID:	EI	Injection Vol:	1.00 ul

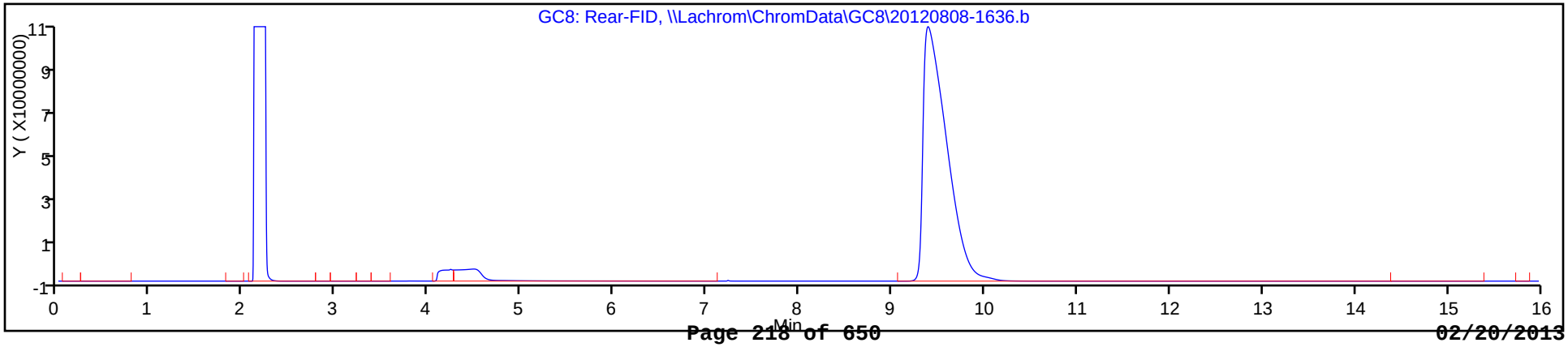
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-015 8-8-2012 5;51;14 pm -1.d		
Lims ID:	STD06	Client ID:	
Inject. Date:	08-Aug-2012 17:51:14	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	340-0001636-015		
Misc. Info.:	GCCO2TCDCAL_00001; 100% CO2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	15
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:19	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

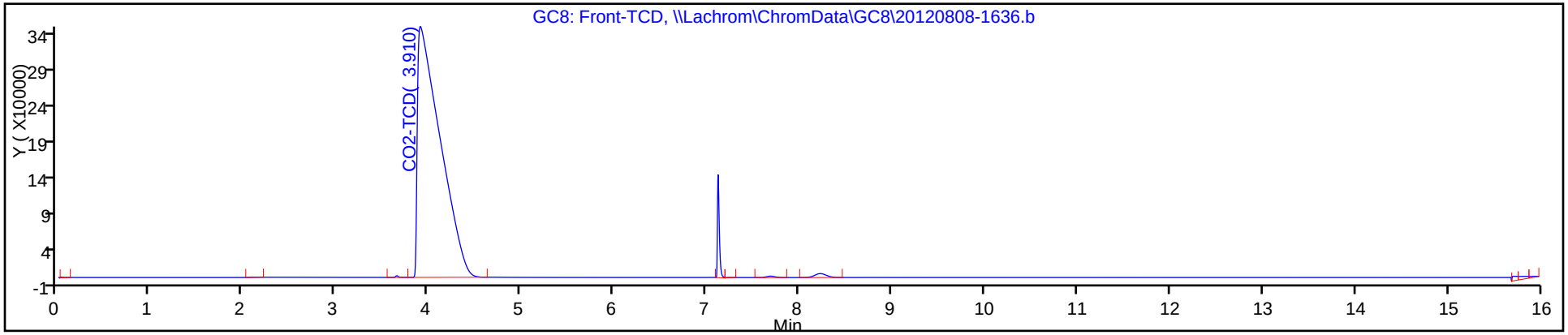
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	3.910	4.143	-0.233	5948307	1038783	

Report Date: 09-Aug-2012 14:28:19 Chrom Revision: 2.0 15-Jul-2012 07:31:48

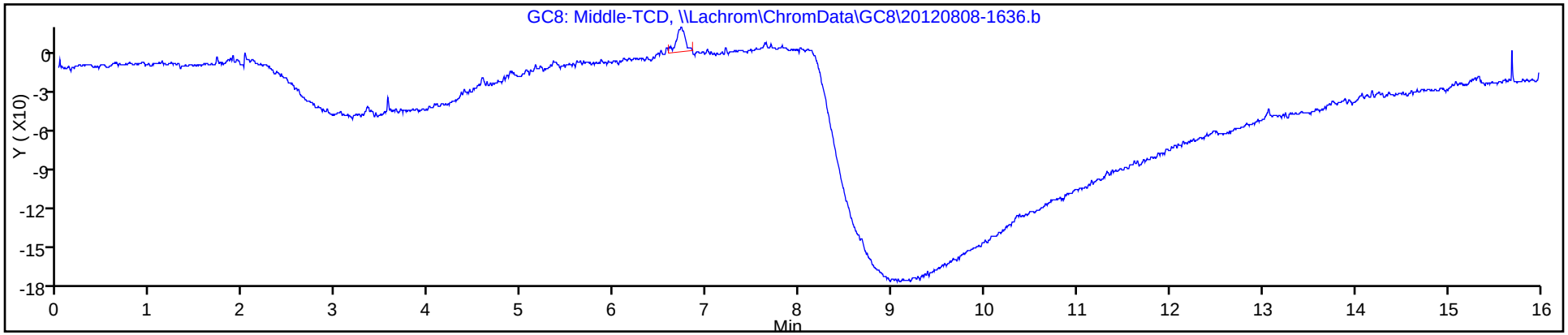
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-015 8-8-2012 5;51;14 pm -1.d

Injection Date:	08-Aug-2012 17:51:14	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	15
Operator ID:	EI	Injection Vol:	1.00 ul

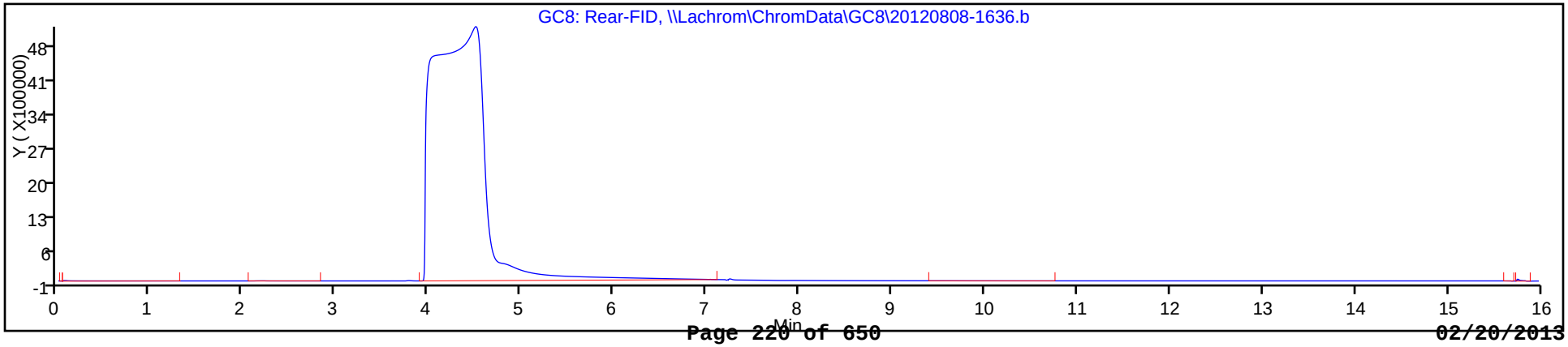
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Lims ID:	STD07	Client ID:	
Inject. Date:	08-Aug-2012 18:10:32	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	340-0001636-016		
Misc. Info.:	GCMETHTCDCAL12_00001; 100% CH4; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2334	Lims Sample ID:	16
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20120808-1636.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	09-Aug-2012 14:28:19	Calib Date:	08-Aug-2012 18:10:32
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

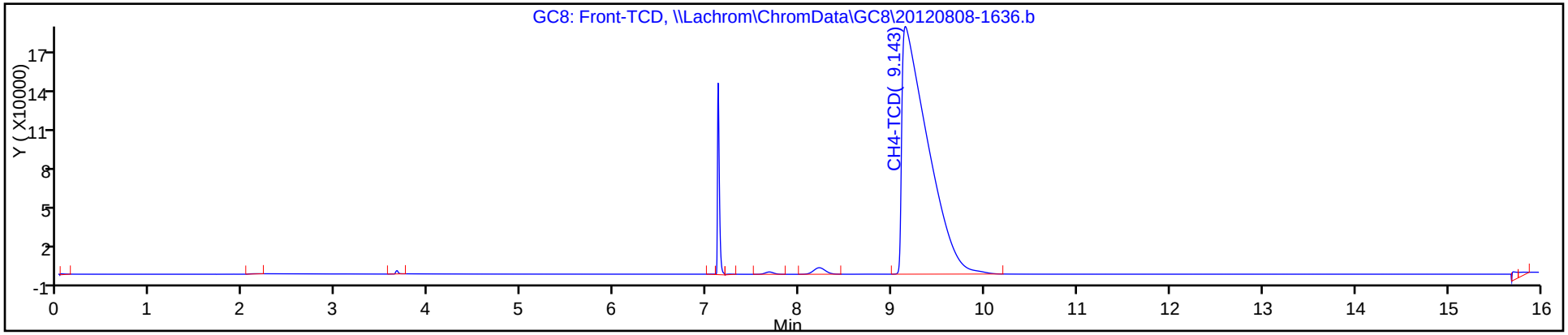
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
12 CH4-TCD						
1	9.143	9.423	-0.280	3617516	997156	

Report Date: 09-Aug-2012 14:28:19 Chrom Revision: 2.0 15-Jul-2012 07:31:48

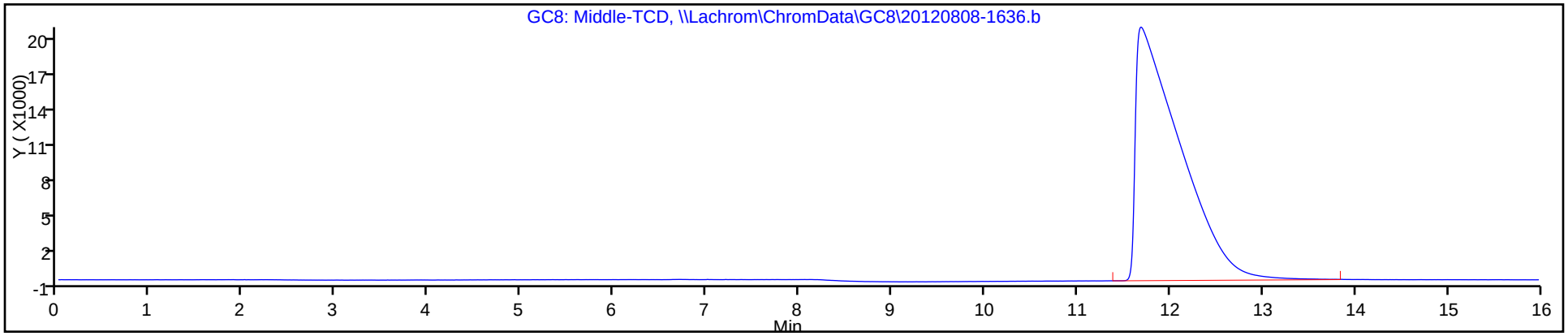
Data File: \\Lachrom\ChromData\GC8\20120808-1636.b\340-0001636-016 8-8-2012 6;10;32 pm -1.d

Injection Date:	08-Aug-2012 18:10:32	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2334	Lims Sample ID:	16
Operator ID:	EI	Injection Vol:	1.00 ul

Y Scaling:



Y Scaling:



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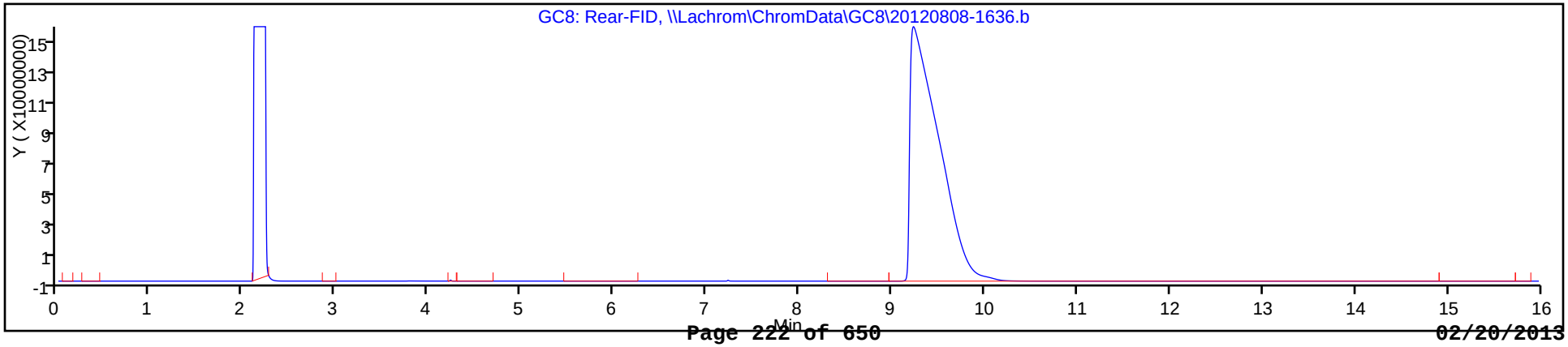


FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2990

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 12:07 Calibration End Date: 10/17/2012 14:06 Calibration ID: 652

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2990/2	340-0002066-002
Level 2	STD02 340-2990/3	340-0002066-003
Level 3	STD03 340-2990/4	340-0002066-004
Level 4	STD04 340-2990/5	340-0002066-005
Level 5	STD05 340-2990/6	340-0002066-006
Level 6	STD06 340-2990/7	340-0002066-007
Level 7	STD07 340-2990/8	340-0002066-008

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Oxygen	7.653	7.650	7.640	7.613	7.560	7.473					7.313 - 7.913	7.598
Nitrogen		8.163	8.147	8.110	8.033		7.893				7.810 - 8.410	8.069

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2990

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 12:07 Calibration End Date: 10/17/2012 14:06 Calibration ID: 652

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2990/2	340-0002066-002
Level 2	STD02 340-2990/3	340-0002066-003
Level 3	STD03 340-2990/4	340-0002066-004
Level 4	STD04 340-2990/5	340-0002066-005
Level 5	STD05 340-2990/6	340-0002066-006
Level 6	STD06 340-2990/7	340-0002066-007
Level 7	STD07 340-2990/8	340-0002066-008

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		B	M1	M2								
Oxygen	4.5301 4.3349	4.3580 4.1962	4.9539	4.6940	Lin1	2248.28095	4.26754532							0.9990		0.9900
Nitrogen	4.5102	5.5351	5.9714 4.4400	5.2563	Lin1	22707.7351	4.47195315							0.9970		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 Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 2990

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 10/17/2012 12:07 Calibration End Date: 10/17/2012 14:06 Calibration ID: 652

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-2990/2	340-0002066-002
Level 2	STD02 340-2990/3	340-0002066-003
Level 3	STD03 340-2990/4	340-0002066-004
Level 4	STD04 340-2990/5	340-0002066-005
Level 5	STD05 340-2990/6	340-0002066-006
Level 6	STD06 340-2990/7	340-0002066-007
Level 7	STD07 340-2990/8	340-0002066-008

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Oxygen	Lin1	9024 4179407	43406	148043	467527	1295460	1992 996000	9960	29884	99600	298841
Nitrogen	Lin1		55350 4439933	179164	525625	1353217		10000 999990	30004	99999	300038

Curve Type Legend:

Lin1 = Linear 1/conc

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-002 10-17-2012 12;07;53 pm -1.d		
Lims ID:	STD01	Client ID:	
Inject. Date:	17-Oct-2012 12:07:53	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	340-0002066-002		
Misc. Info.:	9381; GCFGO2N2CAL1_00001; 0.199% OXYGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	2
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:10	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

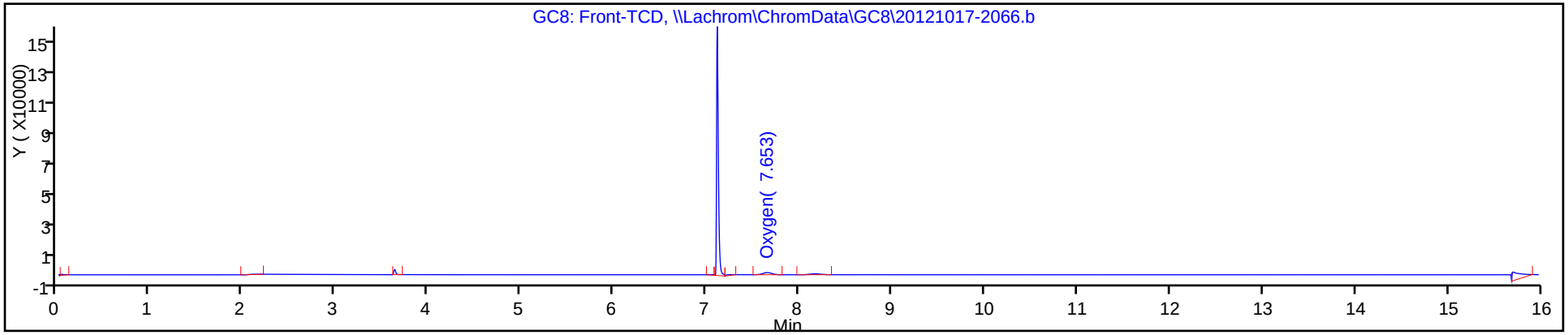
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.653	7.613	0.040	9024	1587.7	

Report Date: 17-Oct-2012 16:06:10 Chrom Revision: 2.0 15-Jul-2012 07:31:48

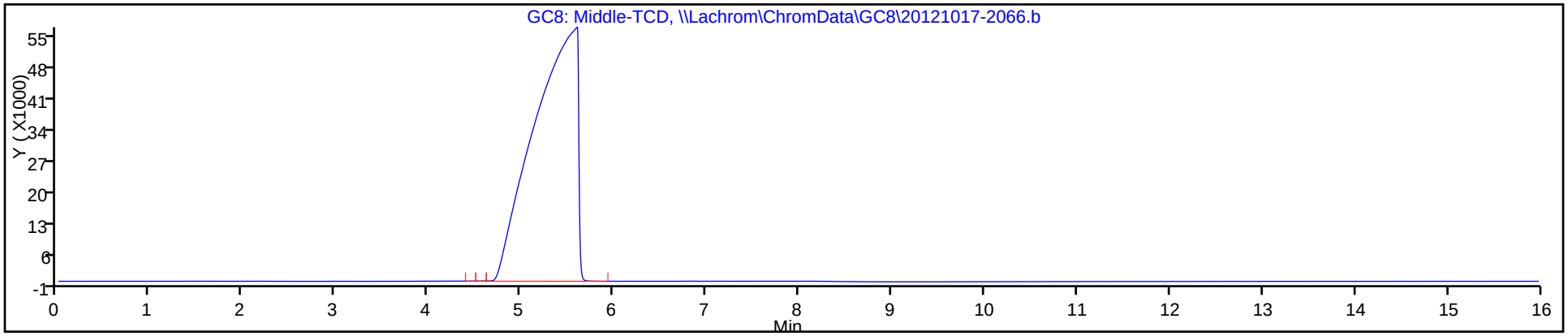
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-002 10-17-2012 12;07;53 pm -1.d

Injection Date:	17-Oct-2012 12:07:53	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	2
Operator ID:	EI	Injection Vol:	1.00 ul

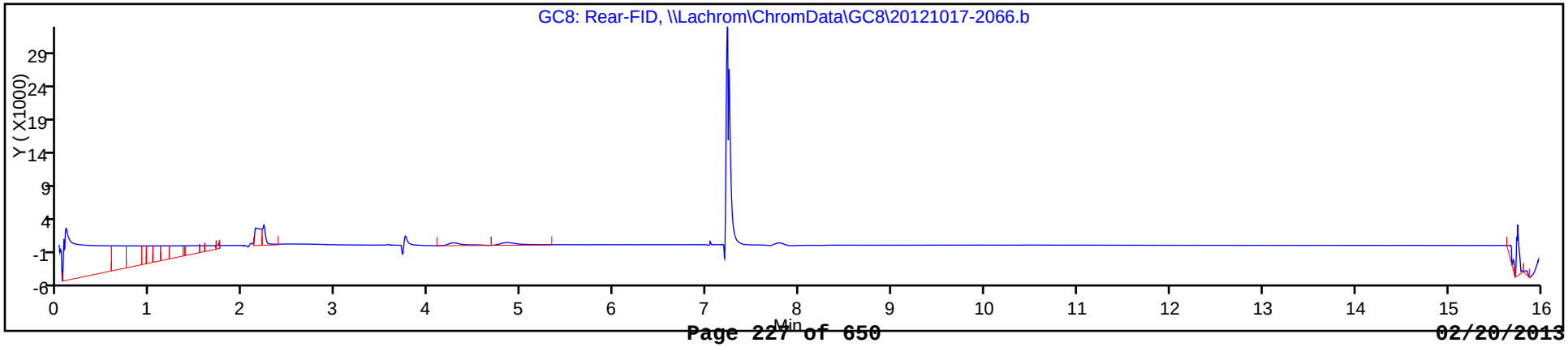
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-003 10-17-2012 12;26;10 pm -1.d		
Lims ID:	STD02	Client ID:	
Inject. Date:	17-Oct-2012 12:26:10	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	340-0002066-003		
Misc. Info.:	9382; GCFGO2N2CAL2_00003; 1% O2/N2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:10	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 17-Oct-2012 15:43:01

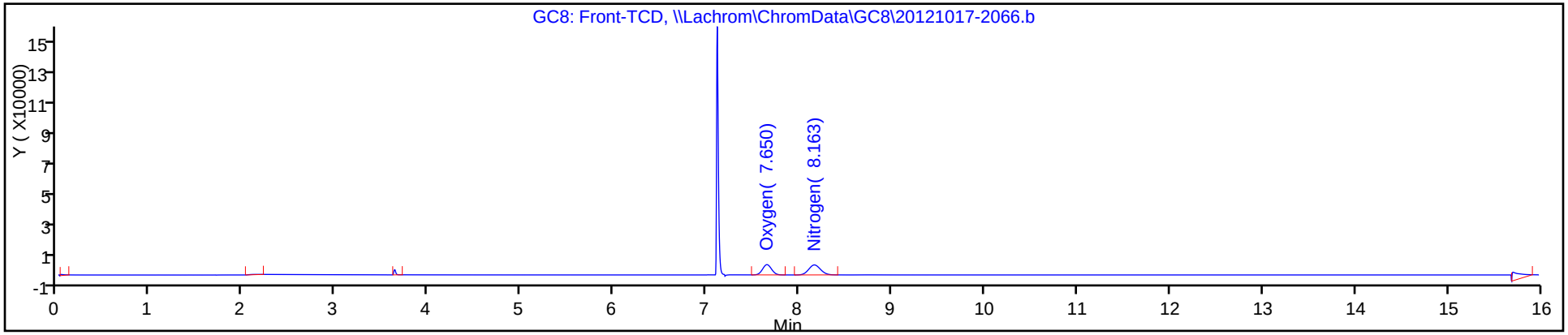
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.650	7.613	0.037	43406	9644.4	
9 Nitrogen						
1	8.163	8.110	0.053	55350	7299.3	

Report Date: 17-Oct-2012 16:06:10 Chrom Revision: 2.0 15-Jul-2012 07:31:48

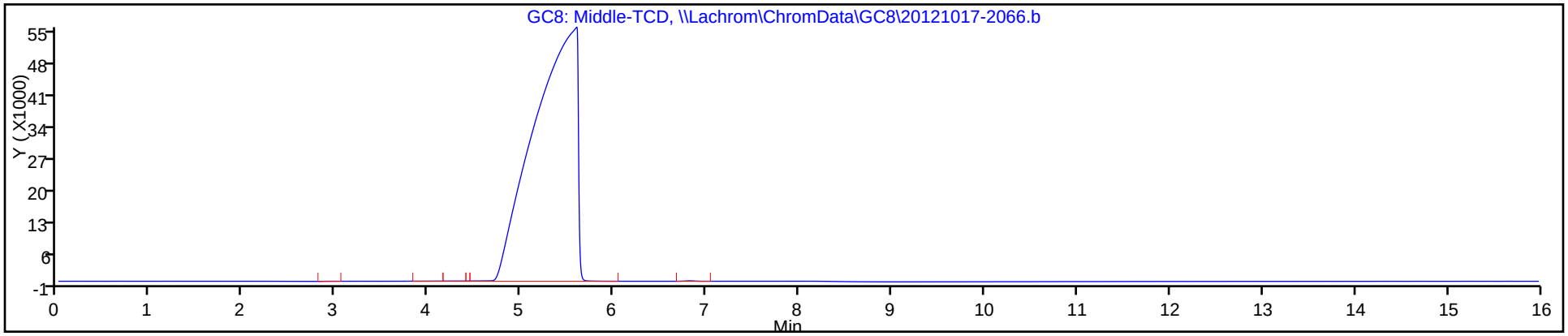
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-003 10-17-2012 12;26;10 pm -1.d

Injection Date:	17-Oct-2012 12:26:10	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.00 ul

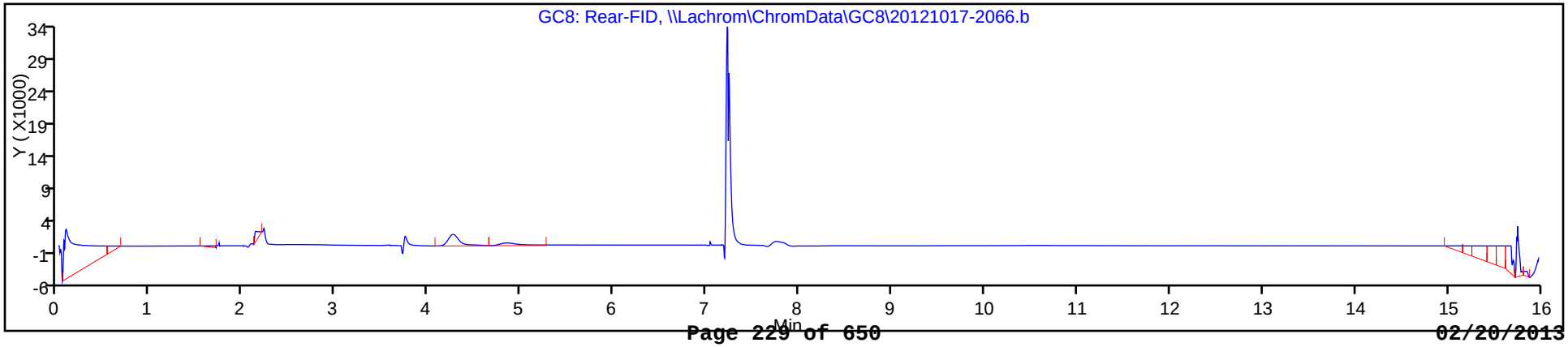
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-004 10-17-2012 12;44;55 pm -1.d		
Lims ID:	STD03	Client ID:	
Inject. Date:	17-Oct-2012 12:44:55	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	340-0002066-004		
Misc. Info.:	19948; GCFGO2N2CAL3_00004; 3% O2/N2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	4
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:11	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 17-Oct-2012 15:23:39

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						A
1	7.640	7.613	0.027	148043	34164	A
9 Nitrogen						A
1	8.147	8.110	0.037	179164	34986	A

QC Flag Legend

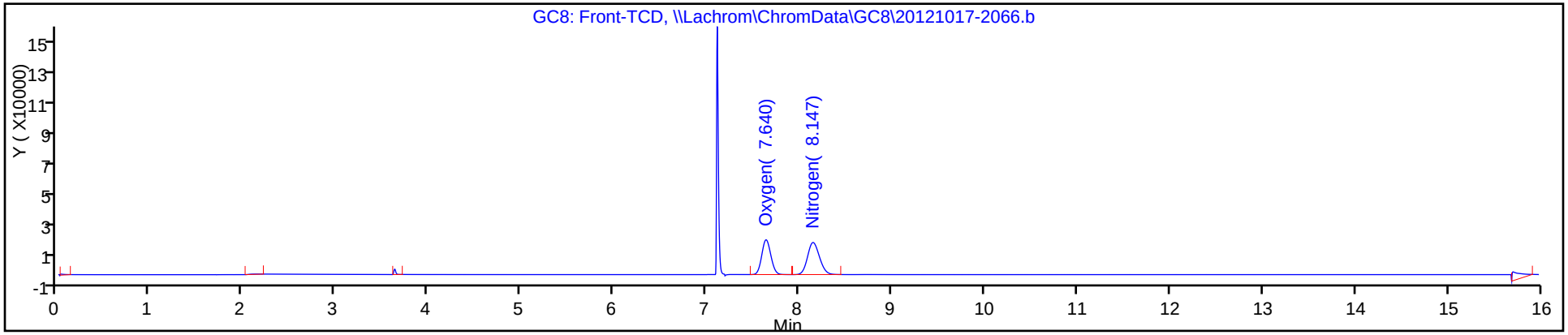
Review Flags
A - User Assigned ID

Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

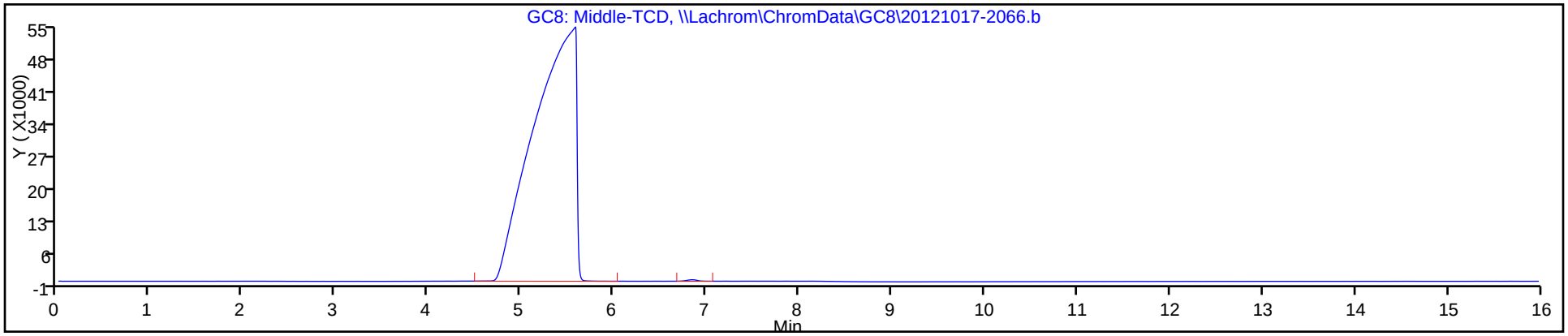
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-004 10-17-2012 12;44;55 pm -1.d

Injection Date:	17-Oct-2012 12:44:55	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.00 ul

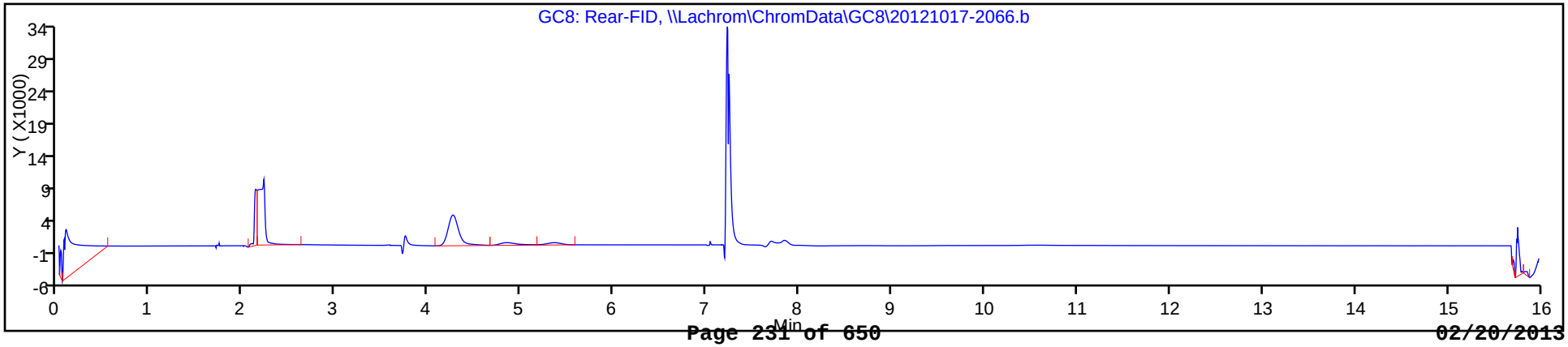
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

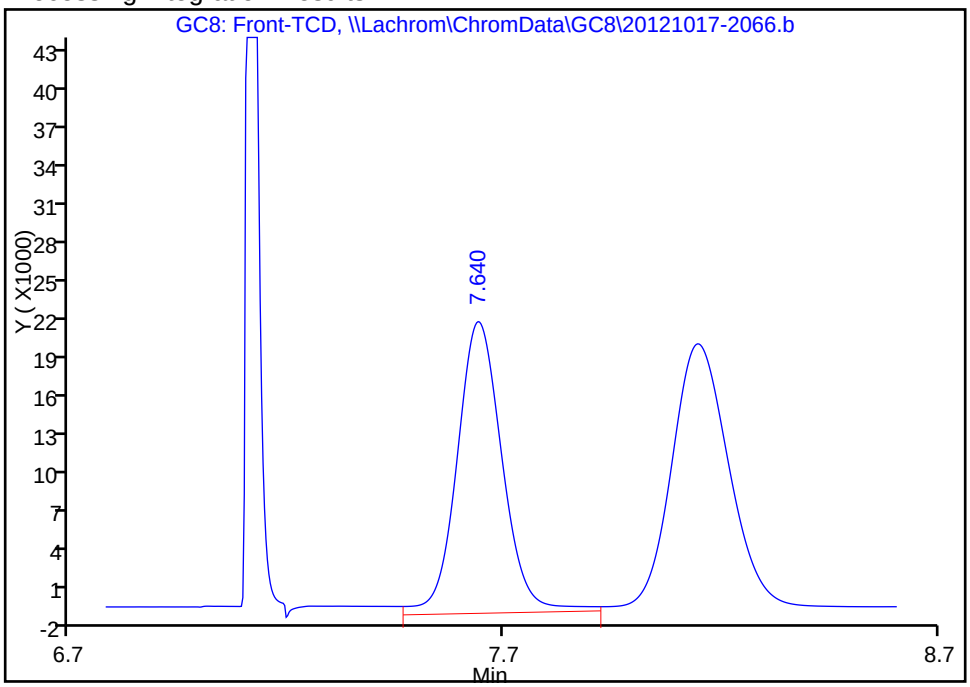
Manual Integration/User Assign Peak Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-004 10-17-2012 12;44;55 pm -1.d		
Injection Date:	17-Oct-2012 12:44:55	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.00 ul

2 Oxygen, Signal: 1, Type: quant, RT: 7.61, Det: Front-TCD

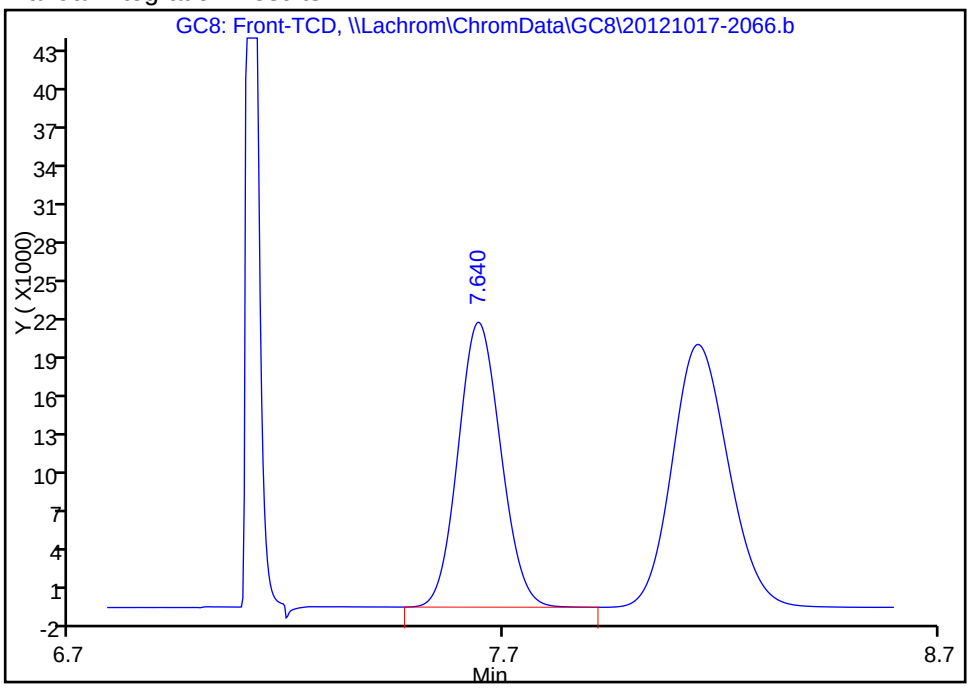
Processing Integration Results

RT: 7.64
Response: 161084
Amount: 36811



Manual Integration Results

RT: 7.64
Response: 148043
Amount: 34164



Reviewer: iancue, 17-Oct-2012 15:40:43
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

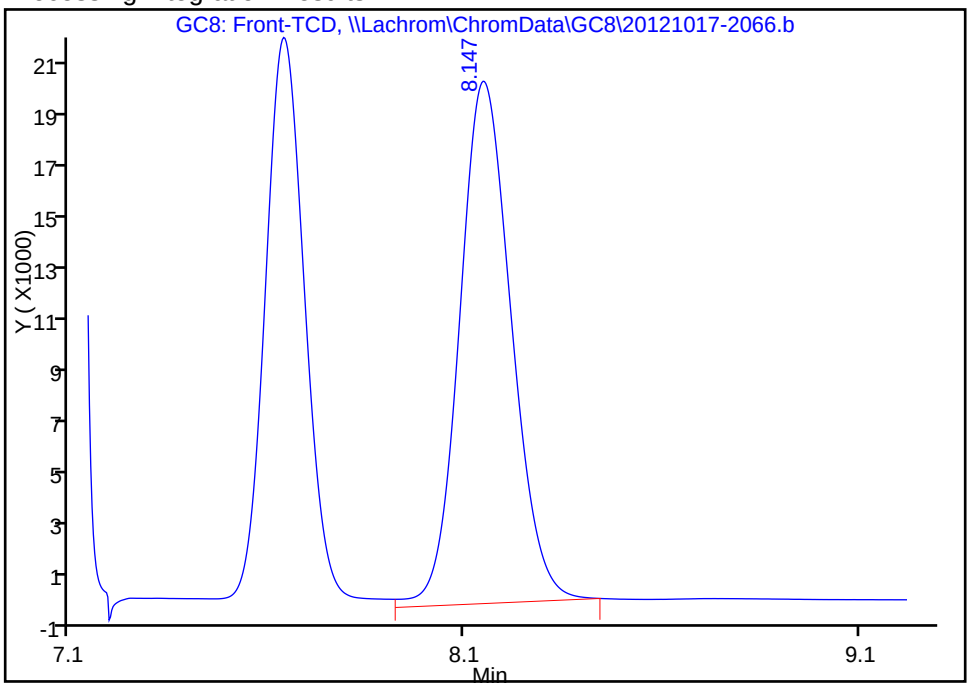
Manual Integration/User Assign Peak Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-004 10-17-2012 12;44;55 pm -1.d		
Injection Date:	17-Oct-2012 12:44:55	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.00 ul

9 Nitrogen, Signal: 1, Type: quant, RT: 8.11, Det: Front-TCD

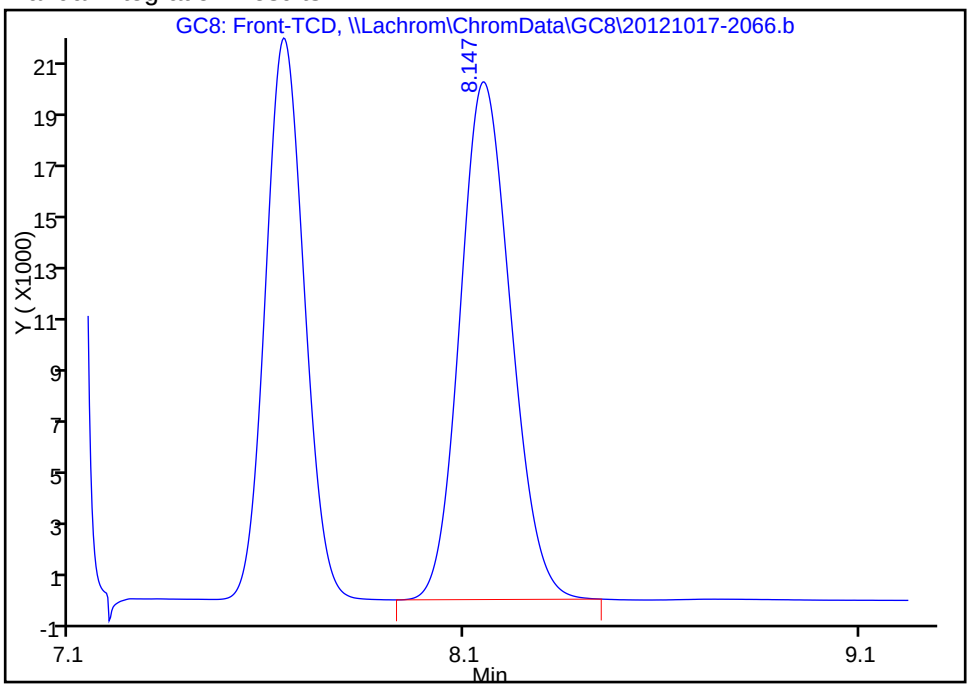
Processing Integration Results

RT: 8.15
Response: 184040
Amount: 35999



Manual Integration Results

RT: 8.15
Response: 179164
Amount: 34986



Reviewer: iancue, 17-Oct-2012 15:40:43
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-005 10-17-2012 1;02;50 pm -1.d		
Lims ID:	STD04	Client ID:	
Inject. Date:	17-Oct-2012 13:02:50	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	340-0002066-005		
Misc. Info.:	10018; GCFGO2N2CAL04_00002; 10% O2/N2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	5
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:11	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 17-Oct-2012 15:24:45

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						A
1	7.613	7.613	0.000	467527	109027	A
9 Nitrogen						A
1	8.110	8.110	0.000	525625	112460	A

QC Flag Legend

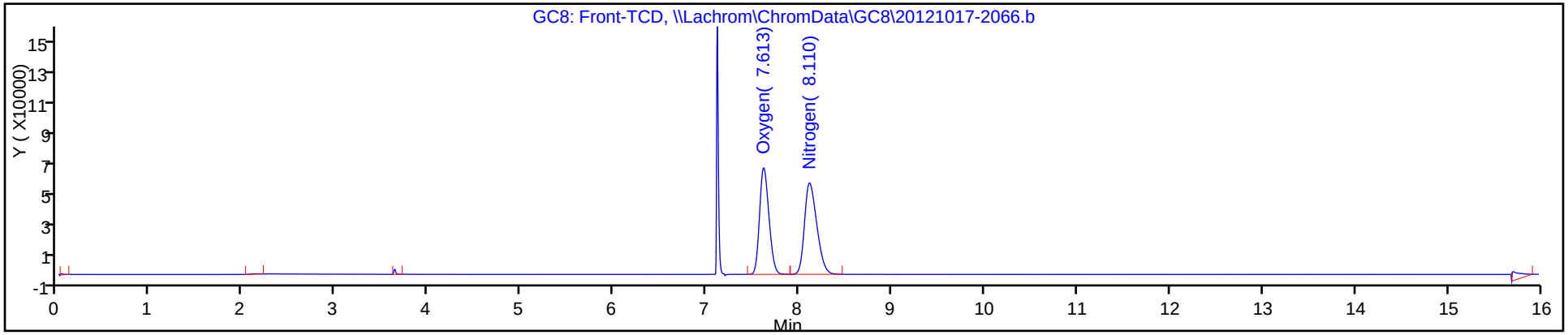
Review Flags
A - User Assigned ID

Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

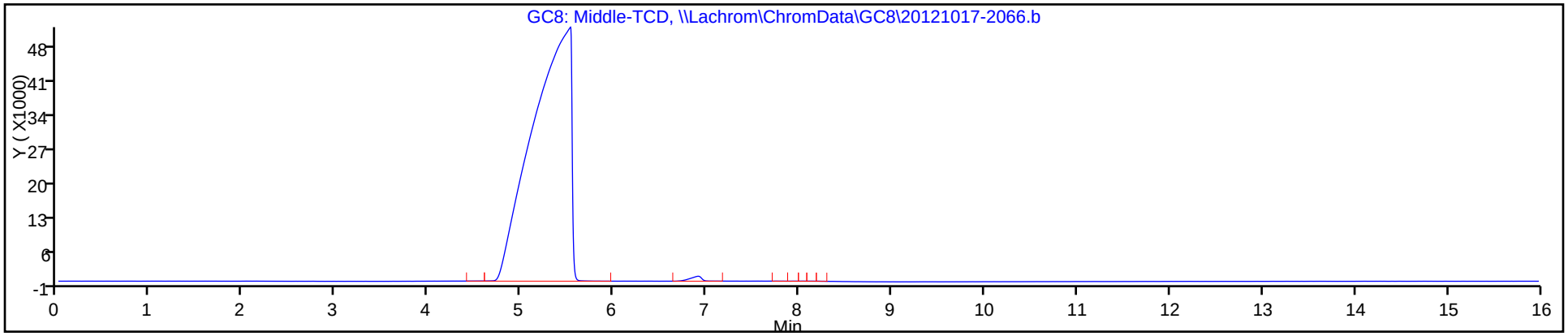
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-005 10-17-2012 1;02;50 pm -1.d

Injection Date:	17-Oct-2012 13:02:50	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.00 ul

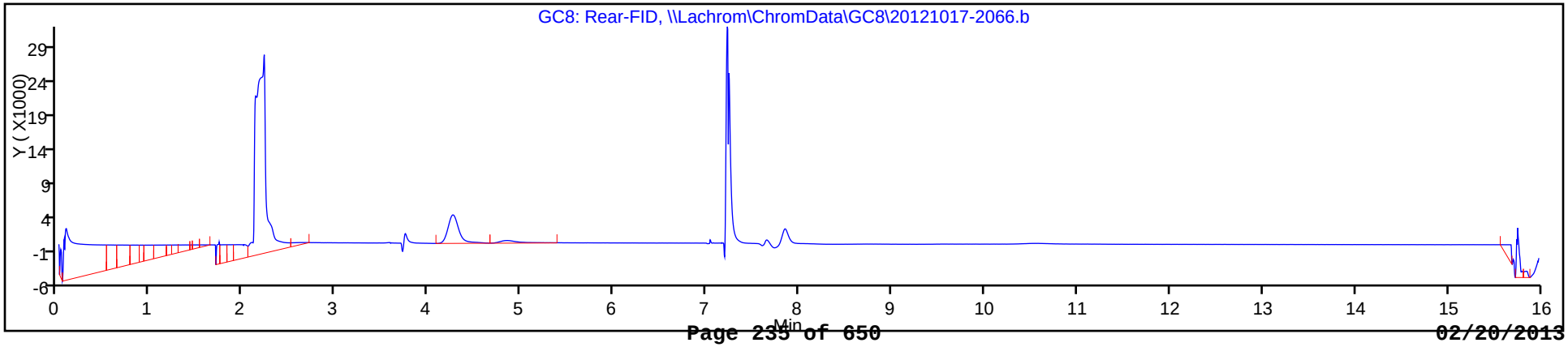
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

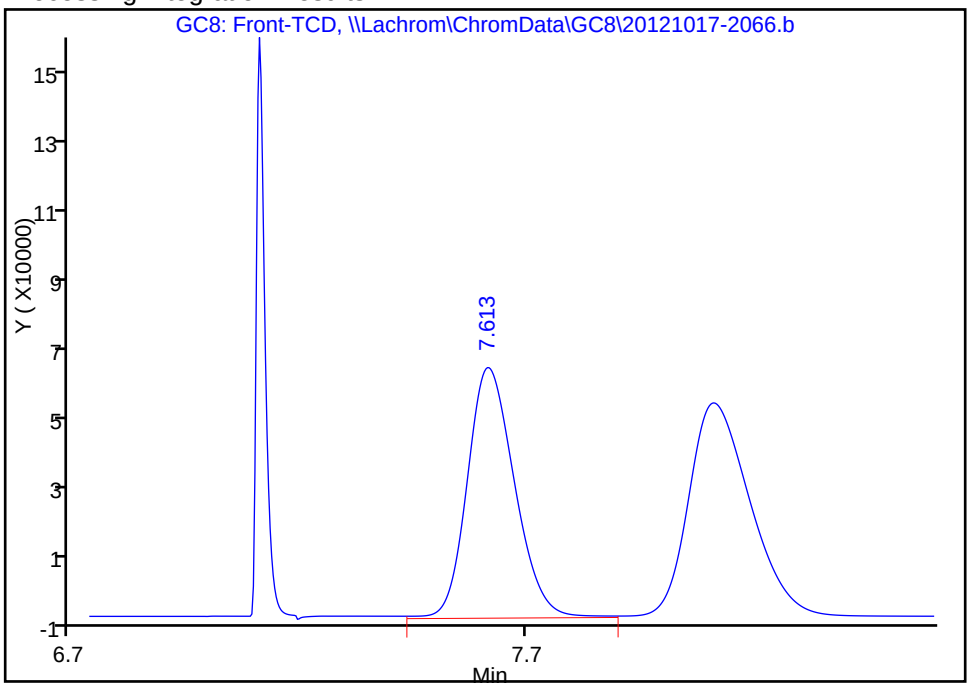
Manual Integration/User Assign Peak Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-005 10-17-2012 1;02;50 pm -1.d		
Injection Date:	17-Oct-2012 13:02:50	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.00 ul

2 Oxygen, Signal: 1, Type: quant, RT: 7.61, Det: Front-TCD

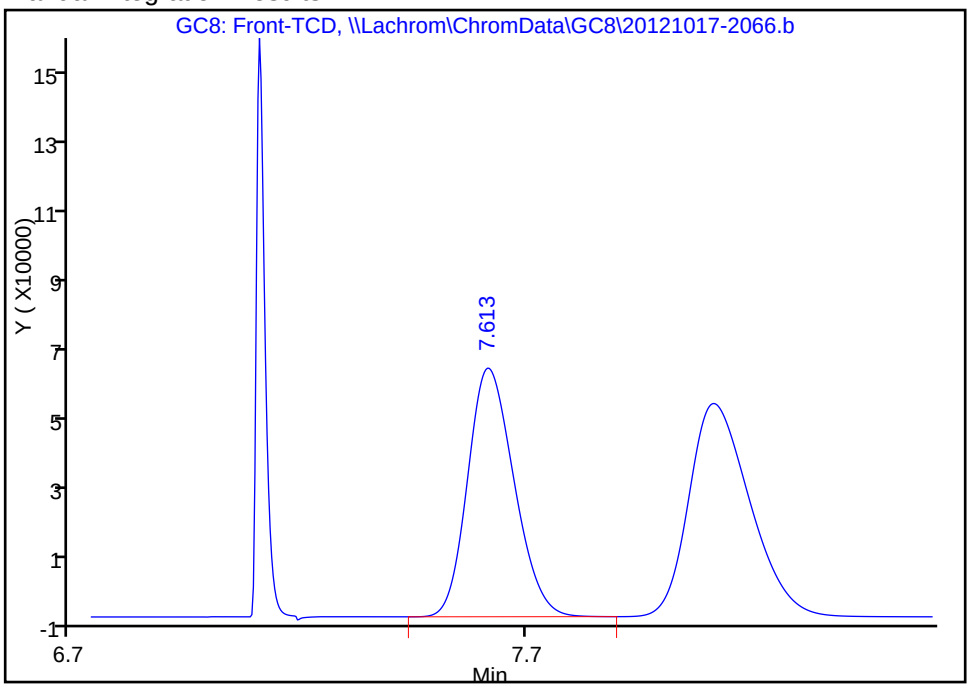
Processing Integration Results

RT: 7.61
Response: 481650
Amount: 111398



Manual Integration Results

RT: 7.61
Response: 467527
Amount: 109027



Reviewer: iancue, 17-Oct-2012 15:40:15
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

Report Date: 17-Oct-2012 16:06:11 Chrom Revision: 2.0 15-Jul-2012 07:31:48

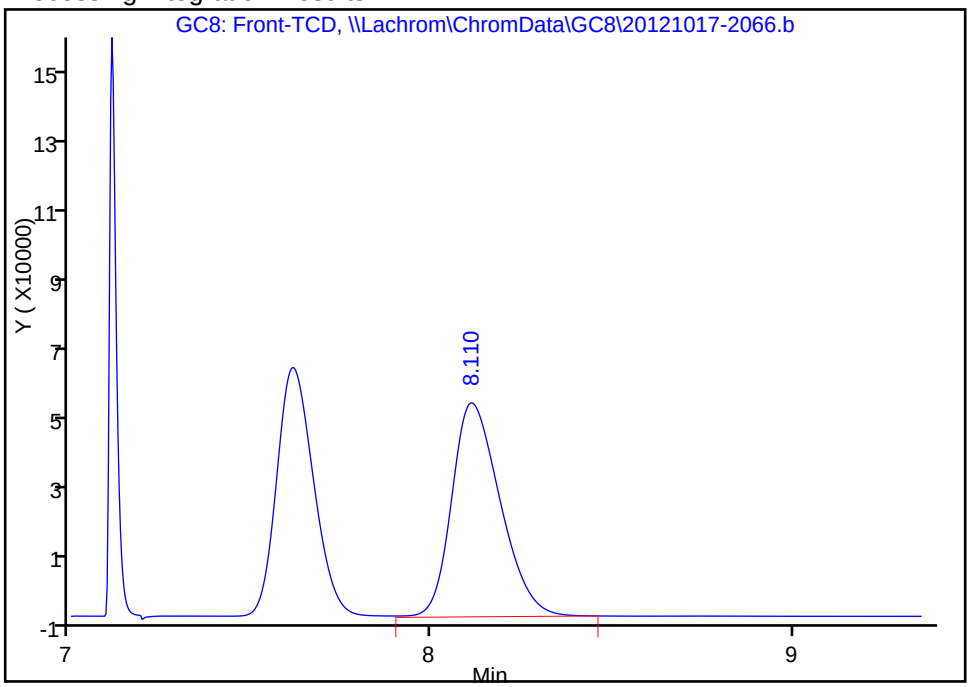
Manual Integration/User Assign Peak Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-005 10-17-2012 1;02;50 pm -1.d		
Injection Date:	17-Oct-2012 13:02:50	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.00 ul

9 Nitrogen, Signal: 1, Type: quant, RT: 8.11, Det: Front-TCD

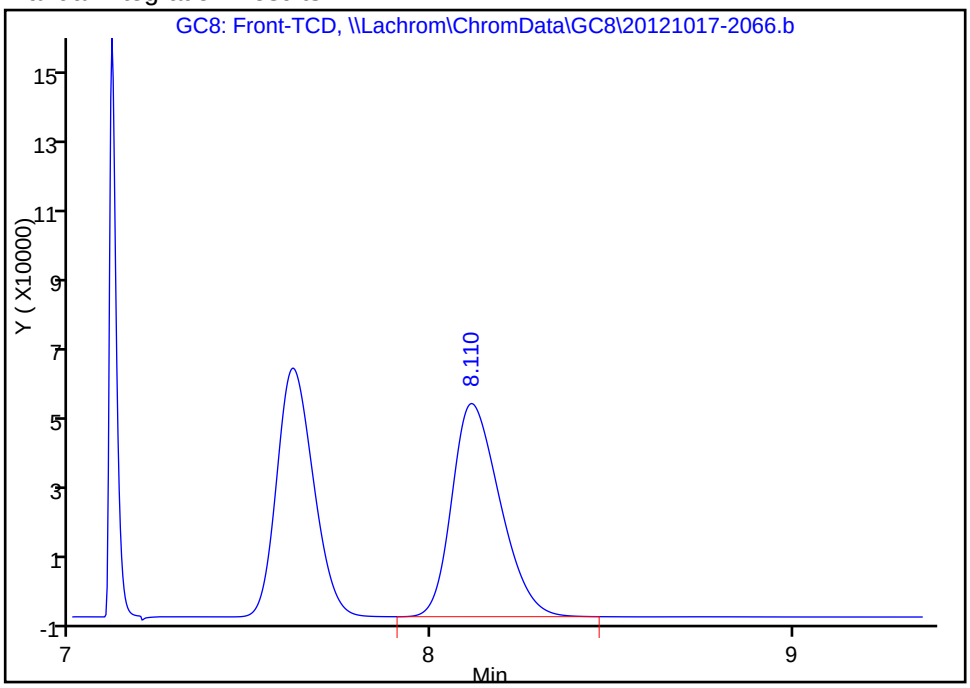
Processing Integration Results

RT: 8.11
Response: 531788
Amount: 113582



Manual Integration Results

RT: 8.11
Response: 525625
Amount: 112460



Reviewer: iancue, 17-Oct-2012 15:40:15
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-006 10-17-2012 1;21;57 pm -1.d		
Lims ID:	STD05	Client ID:	
Inject. Date:	17-Oct-2012 13:21:57	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	340-0002066-006		
Misc. Info.:	19942; GCFGO2N2CAL5_00002; 30% O2/N2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	6
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:12	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

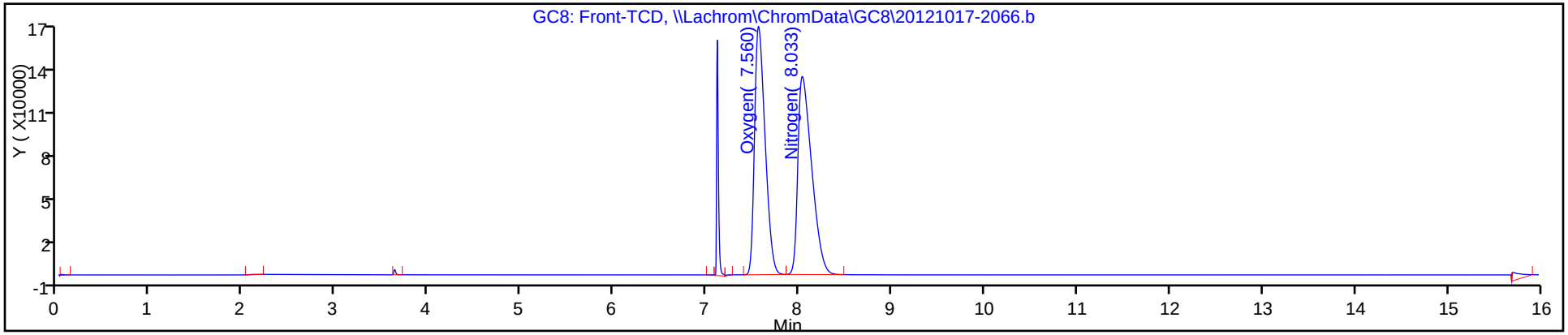
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.560	7.613	-0.053	1295460	303034	
9 Nitrogen						
1	8.033	8.110	-0.077	1353217	297523	

Report Date: 17-Oct-2012 16:06:12 Chrom Revision: 2.0 15-Jul-2012 07:31:48

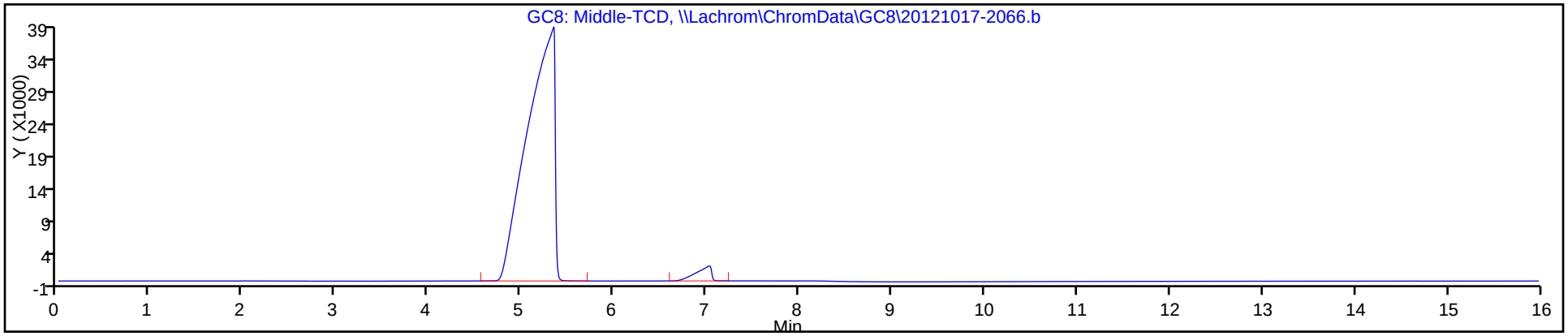
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-006 10-17-2012 1;21;57 pm -1.d

Injection Date:	17-Oct-2012 13:21:57	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.00 ul

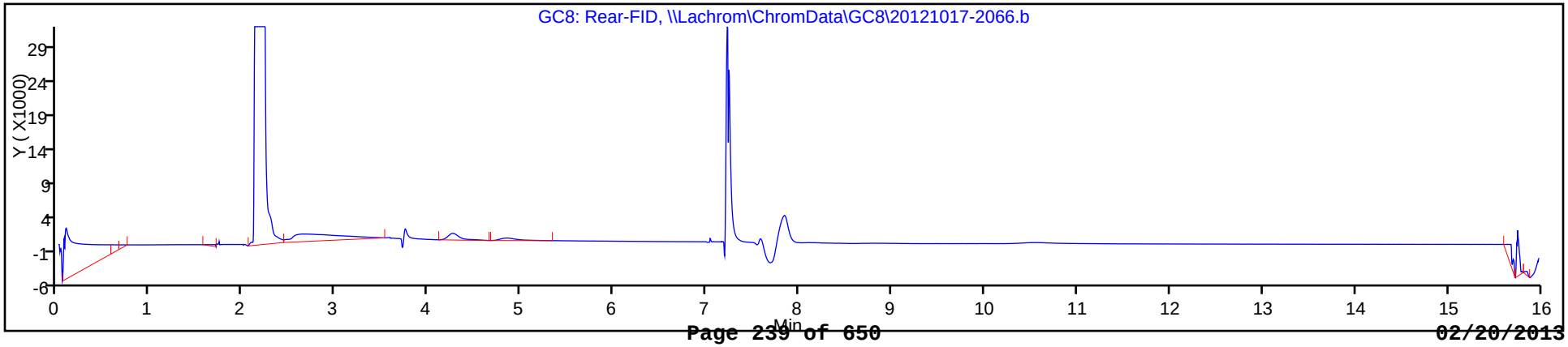
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-007 10-17-2012 1;48;01 pm -1.d		
Lims ID:	STD06	Client ID:	
Inject. Date:	17-Oct-2012 13:48:01	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	340-0002066-007		
Misc. Info.:	299; GCOXYGENCAL_00001; 100% O2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	7
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:12	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 17-Oct-2012 15:26:25

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						A
1	7.473	7.613	-0.140	4179407	978820	A

QC Flag Legend

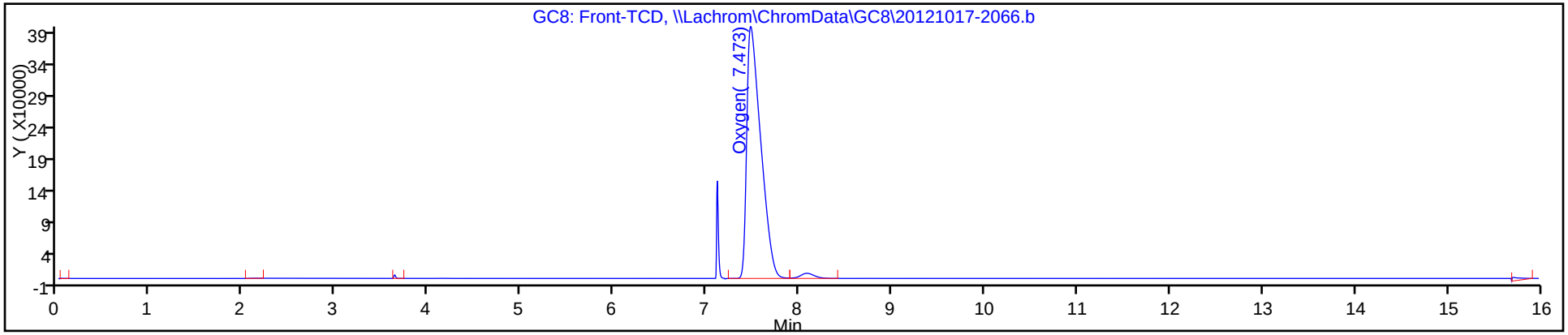
Review Flags
A - User Assigned ID

Report Date: 17-Oct-2012 16:06:12 Chrom Revision: 2.0 15-Jul-2012 07:31:48

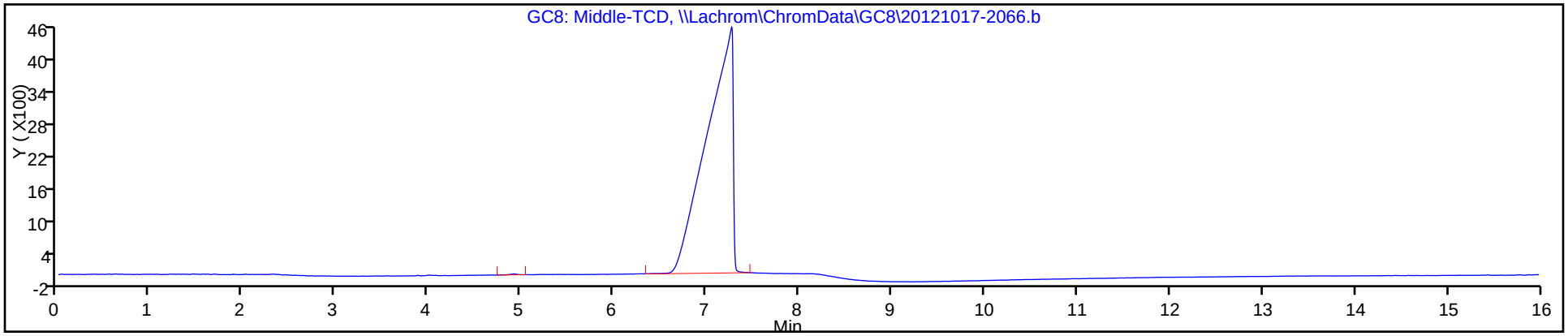
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-007 10-17-2012 1;48;01 pm -1.d

Injection Date:	17-Oct-2012 13:48:01	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.00 ul

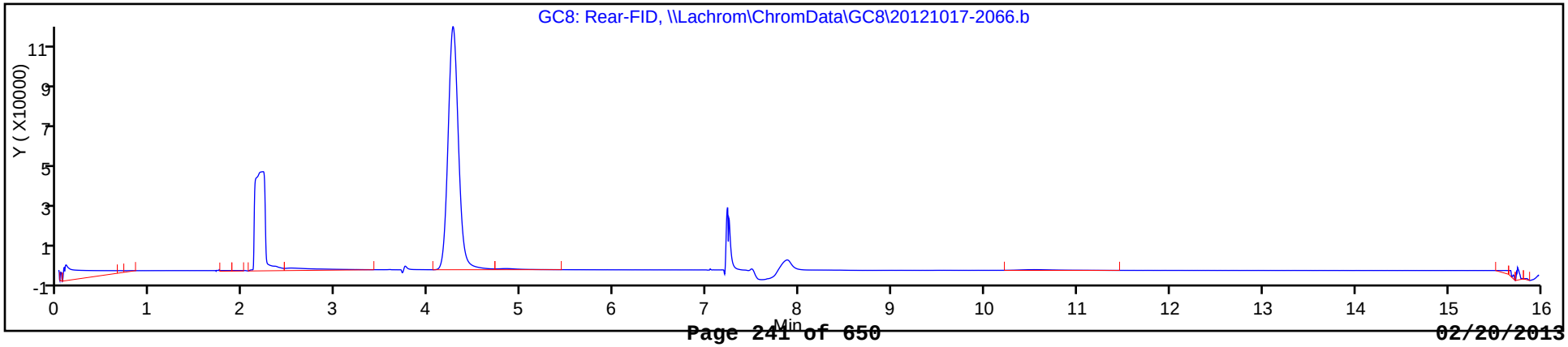
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 17-Oct-2012 16:06:13 Chrom Revision: 2.0 15-Jul-2012 07:31:48

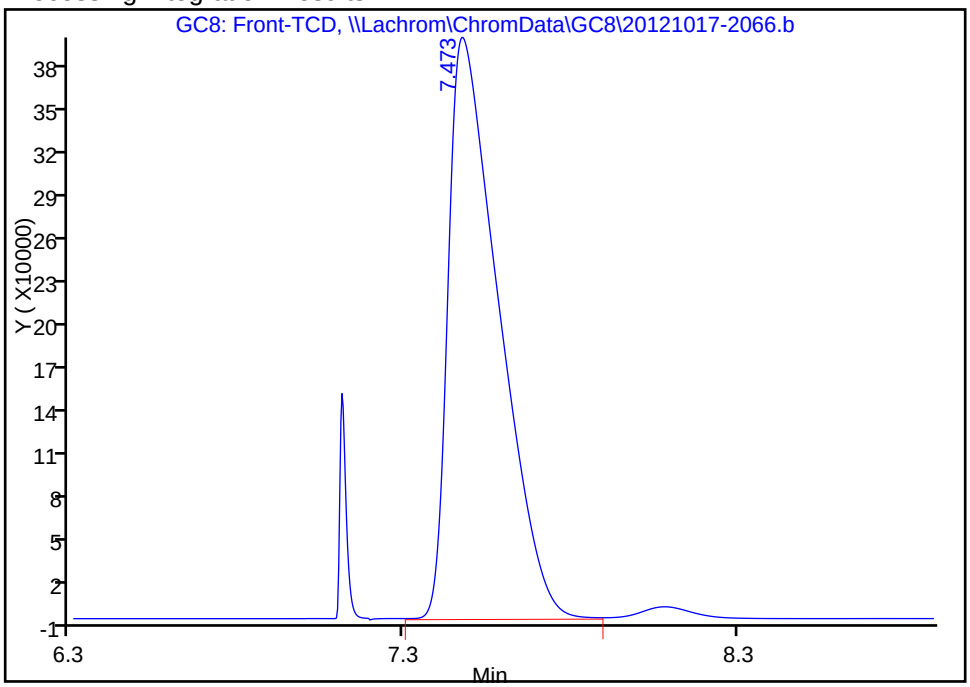
Manual Integration/User Assign Peak Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-007 10-17-2012 1;48;01 pm -1.d		
Injection Date:	17-Oct-2012 13:48:01	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.00 ul

2 Oxygen, Signal: 1, Type: quant, RT: 7.61, Det: Front-TCD

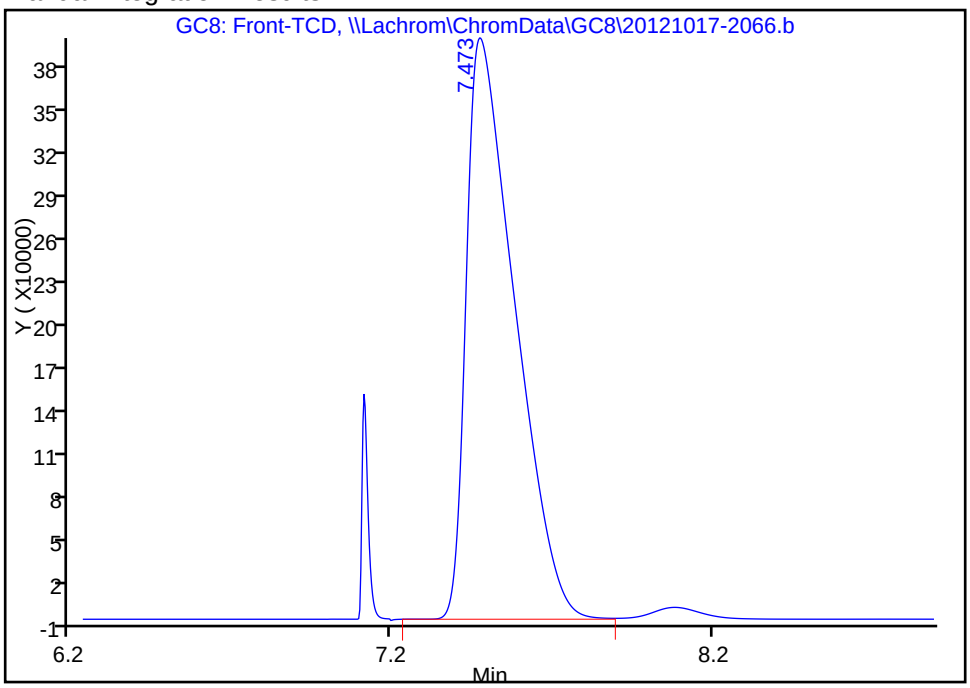
Processing Integration Results

RT: 7.47
Response: 4198199
Amount: 982986



Manual Integration Results

RT: 7.47
Response: 4179407
Amount: 978820



Reviewer: iancue, 17-Oct-2012 15:48:18
Audit Action: Assigned Compound ID
Audit Reason: Assign Peak

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Lims ID:	STD07	Client ID:	
Inject. Date:	17-Oct-2012 14:06:39	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	340-0002066-008		
Misc. Info.:	19947; GCNITROGENCAL12_00006; 100% N2; EI;		
Operator:	EI	Instrument ID:	GC8
Vol. Injected:	1.0000	ALS Bottle#:	0
Lims Batch ID:	2990	Lims Sample ID:	8
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121017-2066.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	17-Oct-2012 16:06:13	Calib Date:	17-Oct-2012 14:06:39
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Process Host:	CORP-CTX-12		

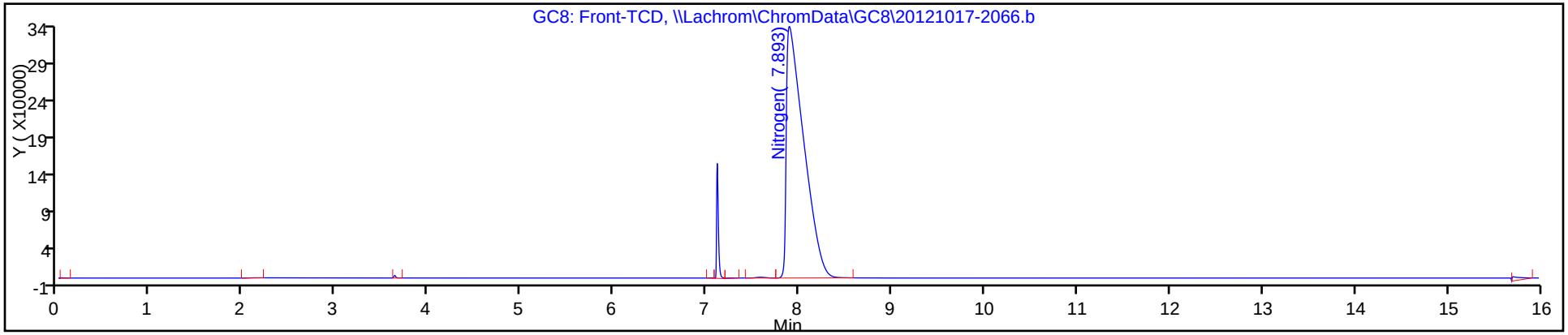
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
9 Nitrogen						
1	7.893	8.110	-0.217	4439933	987762	

Report Date: 17-Oct-2012 16:06:13 Chrom Revision: 2.0 15-Jul-2012 07:31:48

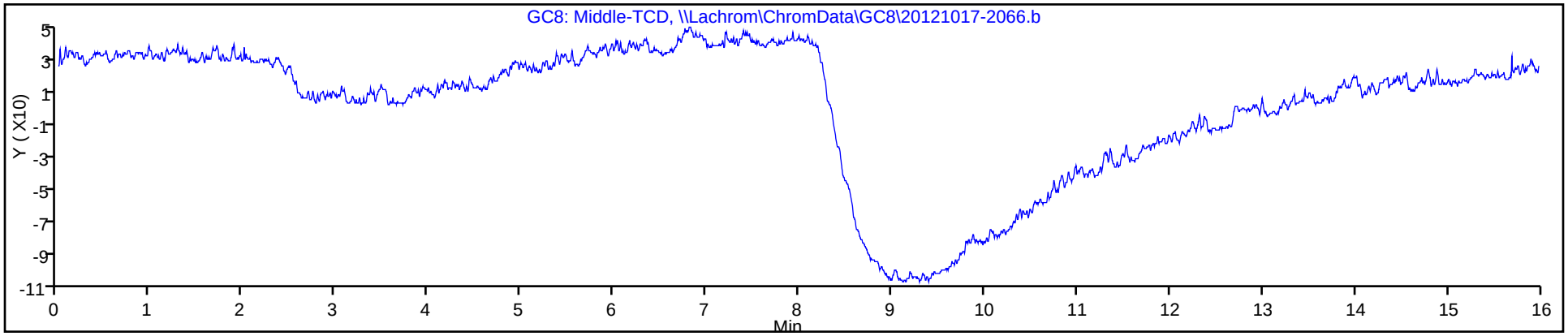
Data File: \\Lachrom\ChromData\GC8\20121017-2066.b\340-0002066-008 10-17-2012 2;06;39 pm -1.d

Injection Date:	17-Oct-2012 14:06:39	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	2990	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.00 ul

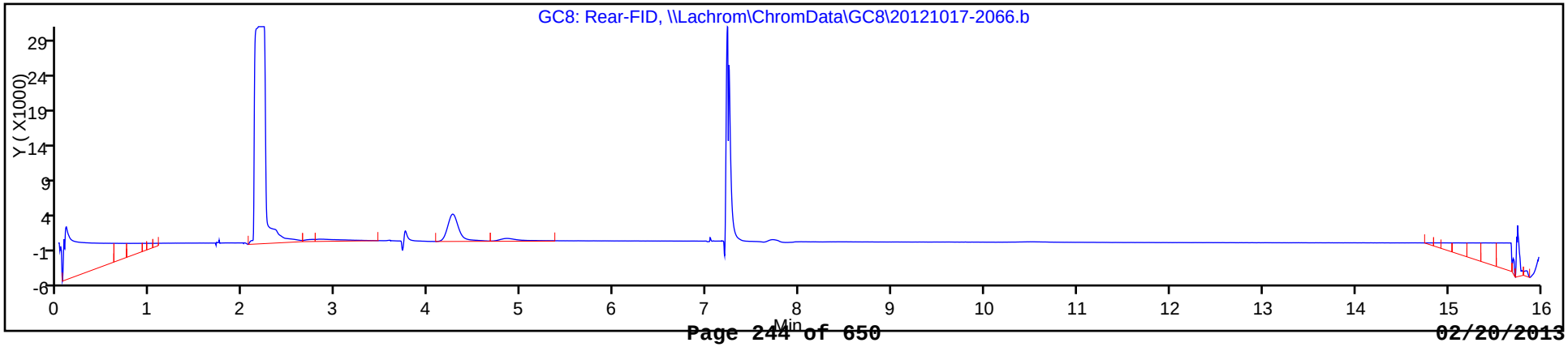
Y Scaling:



Y Scaling:



Y Scaling:



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3249

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2012 15:07 Calibration End Date: 11/14/2012 16:58 Calibration ID: 695

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3249/1	340-0002244-001
Level 2	STD02 340-3249/2	340-0002244-002
Level 3	STD03 340-3249/3	340-0002244-003
Level 4	STD04 340-3249/4	340-0002244-004
Level 5	STD05 340-3249/5	340-0002244-005
Level 6	STD06 340-3249/6	340-0002244-006
Level 7	STD07 340-3249/7	340-0002244-007

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
Helium	4.930	4.917	4.927	4.947	4.993	5.100	5.260				4.800 - 5.400	5.011
Hydrogen	5.257	5.253	5.260	5.280	5.323	5.443	5.670				5.143 - 5.743	5.355

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3249

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2012 15:07 Calibration End Date: 11/14/2012 16:58 Calibration ID: 695

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3249/1	340-0002244-001
Level 2	STD02 340-3249/2	340-0002244-002
Level 3	STD03 340-3249/3	340-0002244-003
Level 4	STD04 340-3249/4	340-0002244-004
Level 5	STD05 340-3249/5	340-0002244-005
Level 6	STD06 340-3249/6	340-0002244-006
Level 7	STD07 340-3249/7	340-0002244-007

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		B	M1	M2								
Helium	1.6600 1.7666	1.5930 1.8305	1.6620 1.7952	1.7300	Lin2	-21.859409	1.73986201							0.9980		0.9900
Hydrogen	2.3800 2.8581	2.4540 2.8748	2.6060 2.9011	2.6669	Lin2	-85.746379	2.75665374							0.9970		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 Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3249

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/14/2012 15:07 Calibration End Date: 11/14/2012 16:58 Calibration ID: 695

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3249/1	340-0002244-001
Level 2	STD02 340-3249/2	340-0002244-002
Level 3	STD03 340-3249/3	340-0002244-003
Level 4	STD04 340-3249/4	340-0002244-004
Level 5	STD05 340-3249/5	340-0002244-005
Level 6	STD06 340-3249/6	340-0002244-006
Level 7	STD07 340-3249/7	340-0002244-007

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Helium	Lin2	332 183047	1593 538568	4986	17300	52997	200 99999	1000 299997	3000	10000	30000
Hydrogen	Lin2	476 287474	2454 870322	7818	26669	85741	200 99999	1000 299997	3000	10000	30000

Curve Type Legend:
Lin2 = Linear 1/conc^2

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-001 11-14-2012 3;07;02 pm-1.d		
Lims ID:	STD01	Client ID:	
Inject. Date:	14-Nov-2012 15:07:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	340-0002244-001		
Misc. Info.:	GCFGHEH2ICAL1_00002; 0.02% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	1
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:27	Calib Date:	14-Nov-2012 17:39:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

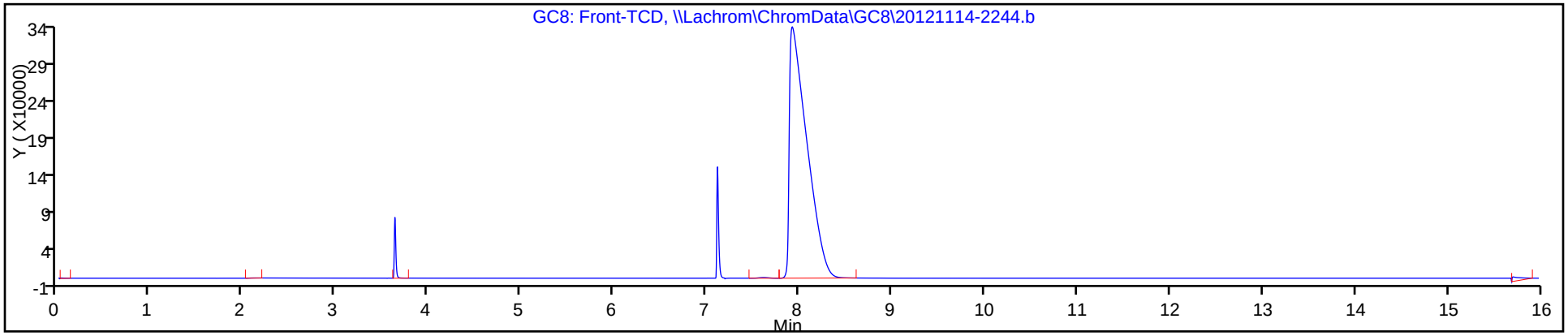
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	4.930	5.100	-0.170	332	203.4	
1 Hydrogen						
2	5.257	5.443	-0.186	476	203.8	

Report Date: 16-Nov-2012 10:51:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

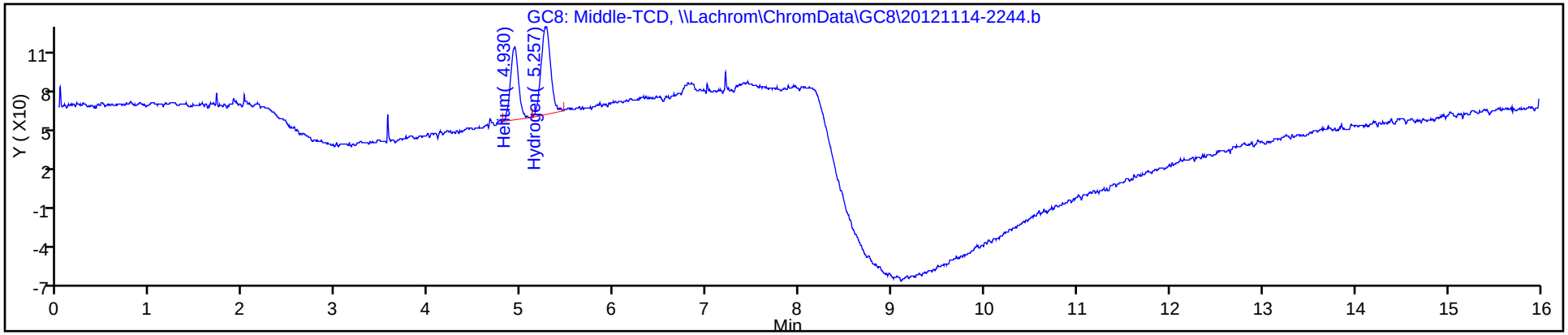
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-001 11-14-2012 3;07;02 pm-1.d		
Injection Date:	14-Nov-2012 15:07:02	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	1
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

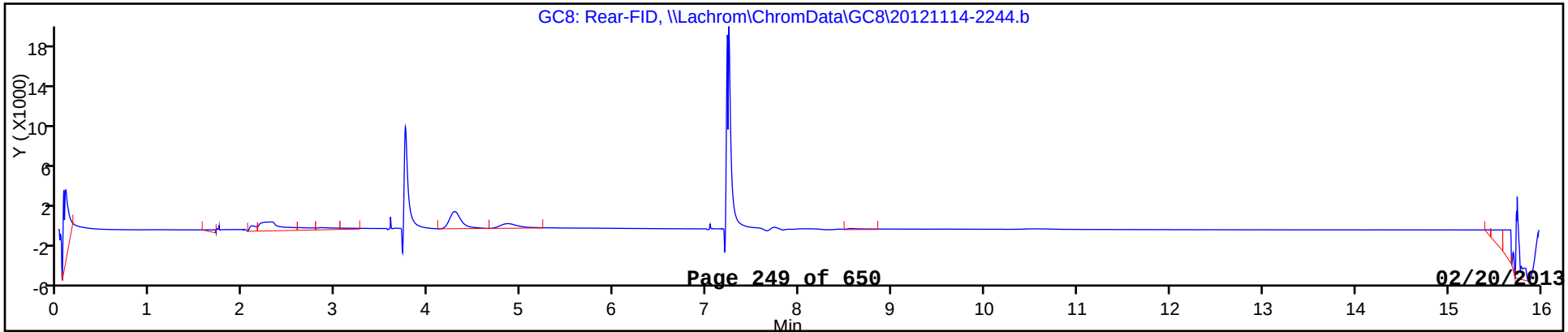
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-002 11-14-2012 3;25;10 pm-1.d		
Lims ID:	STD02	Client ID:	
Inject. Date:	14-Nov-2012 15:25:10	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	340-0002244-002		
Misc. Info.:	GCFGHEH2ICAL2_00002; 0.1% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	2
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:28	Calib Date:	14-Nov-2012 17:39:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

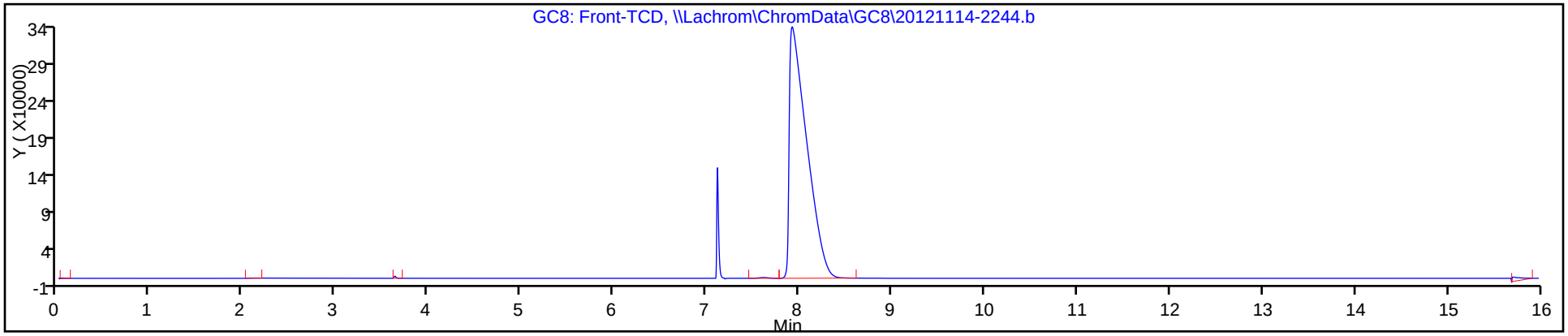
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	4.917	5.100	-0.183	1593	928.2	
1 Hydrogen						
2	5.253	5.443	-0.190	2454	921.3	

Report Date: 16-Nov-2012 10:51:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-002 11-14-2012 3;25;10 pm-1.d		
Injection Date:	14-Nov-2012 15:25:10	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	2
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



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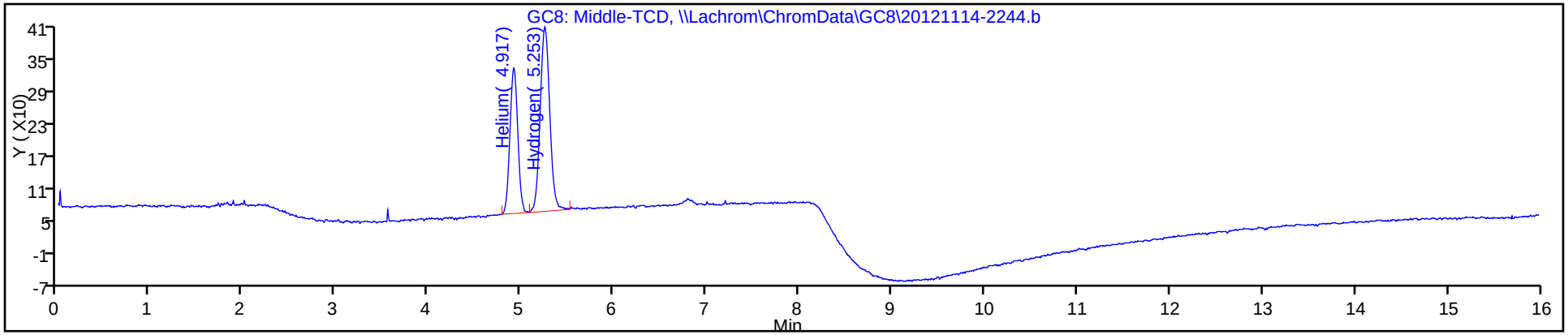
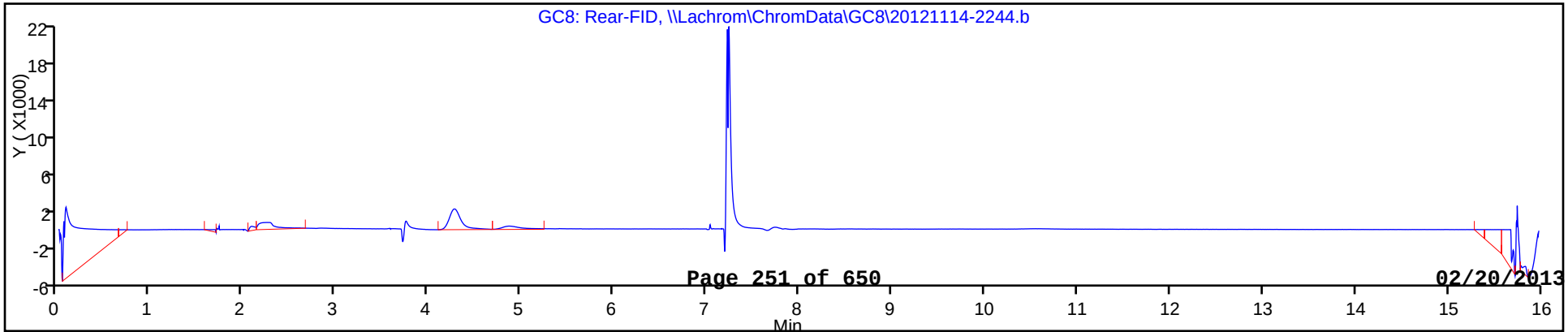


Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-003 11-14-2012 3;43;24 pm-1.d		
Lims ID:	STD03	Client ID:	
Inject. Date:	14-Nov-2012 15:43:24	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	340-0002244-003		
Misc. Info.:	GCFGHEH2ICAL3_00002; 0.3% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:29	Calib Date:	14-Nov-2012 17:39:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

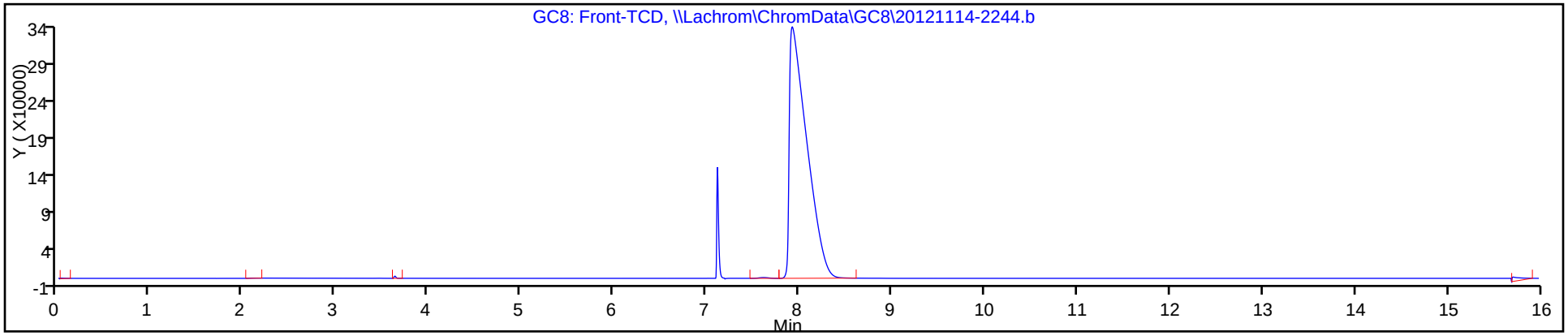
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	4.927	5.100	-0.173	4986	2878.3	
1 Hydrogen						
2	5.260	5.443	-0.183	7818	2867.2	

Report Date: 16-Nov-2012 10:51:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

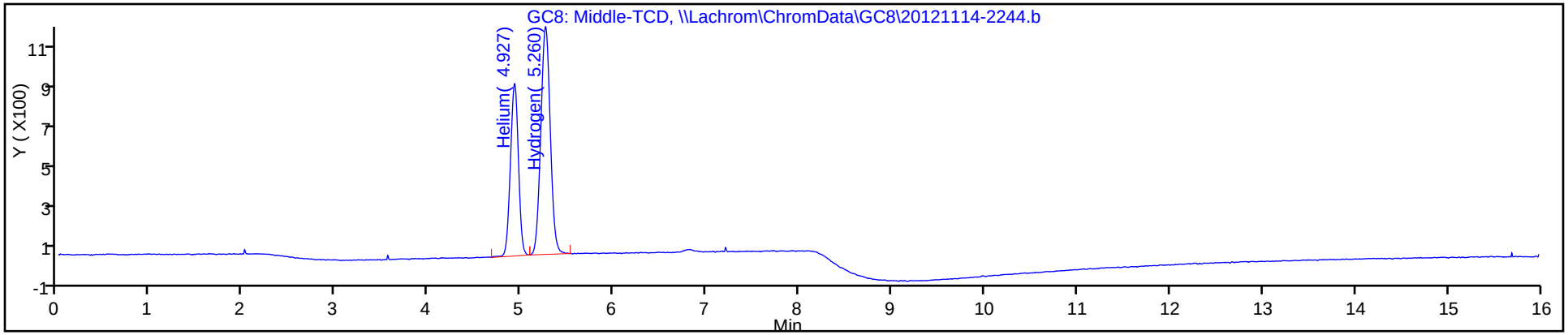
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-003 11-14-2012 3;43;24 pm-1.d		
Injection Date:	14-Nov-2012 15:43:24	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

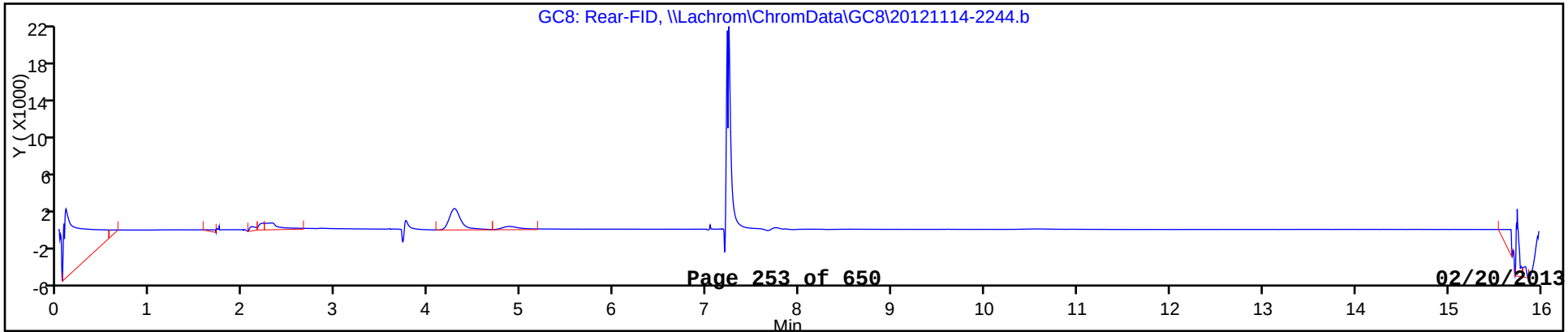
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-004 11-14-2012 4;03;01 pm-1.d		
Lims ID:	STD04	Client ID:	
Inject. Date:	14-Nov-2012 16:03:01	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	340-0002244-004		
Misc. Info.:	GCFGHEH2ICAL4_00003; 1% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	4
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:30	Calib Date:	14-Nov-2012 17:39:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

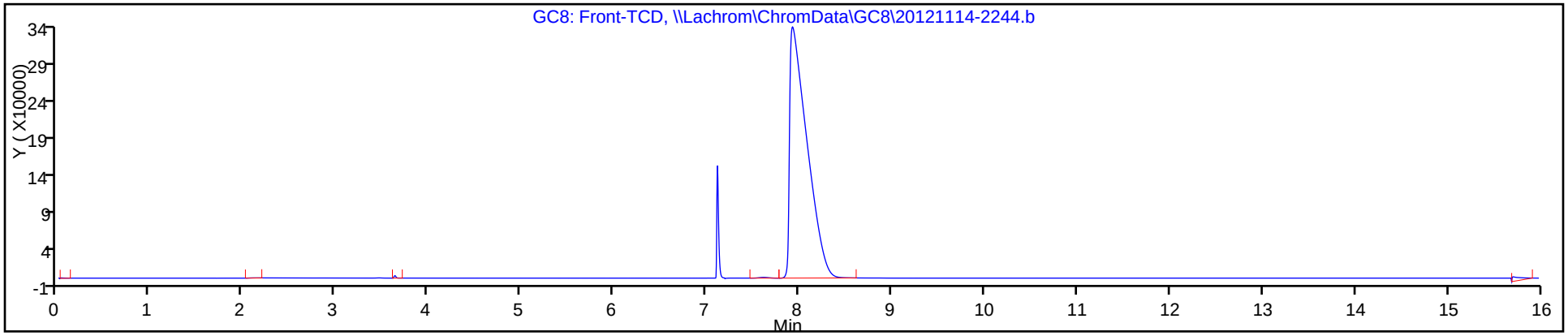
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	4.947	4.947	0.000	17300	9955.9	
1 Hydrogen						
2	5.280	5.280	0.000	26669	9705.5	

Report Date: 16-Nov-2012 10:51:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-004 11-14-2012 4;03;01 pm-1.d		
Injection Date:	14-Nov-2012 16:03:01	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

Y Scaling:



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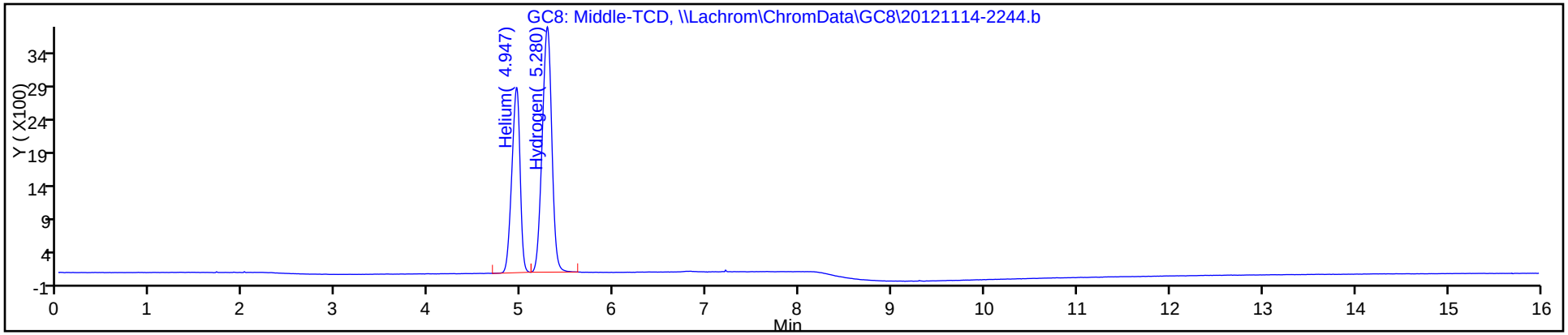
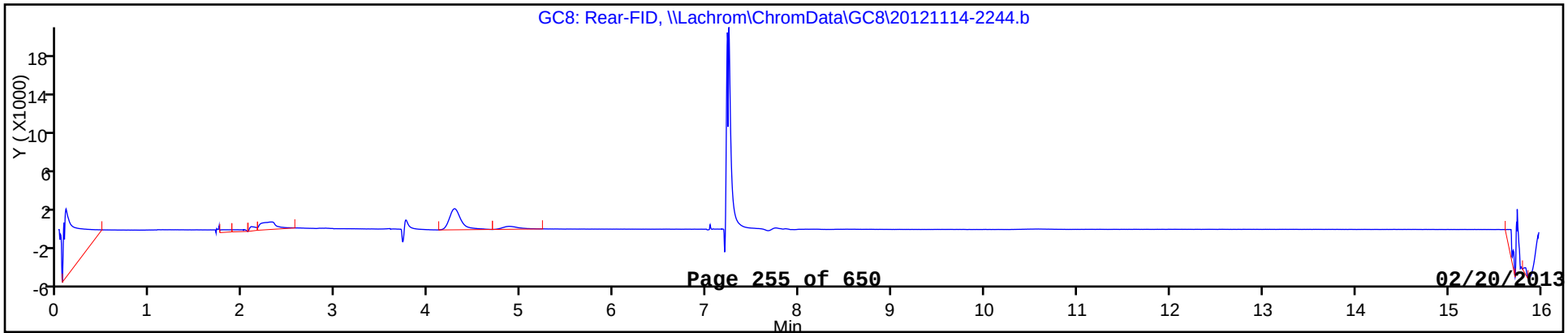


Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-005 11-14-2012 4;20;31 pm-1.d		
Lims ID:	STD05	Client ID:	
Inject. Date:	14-Nov-2012 16:20:31	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	340-0002244-005		
Misc. Info.:	GCFGHEH2ICAL5_00002; 3% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	5
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:31	Calib Date:	14-Nov-2012 17:39:02
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

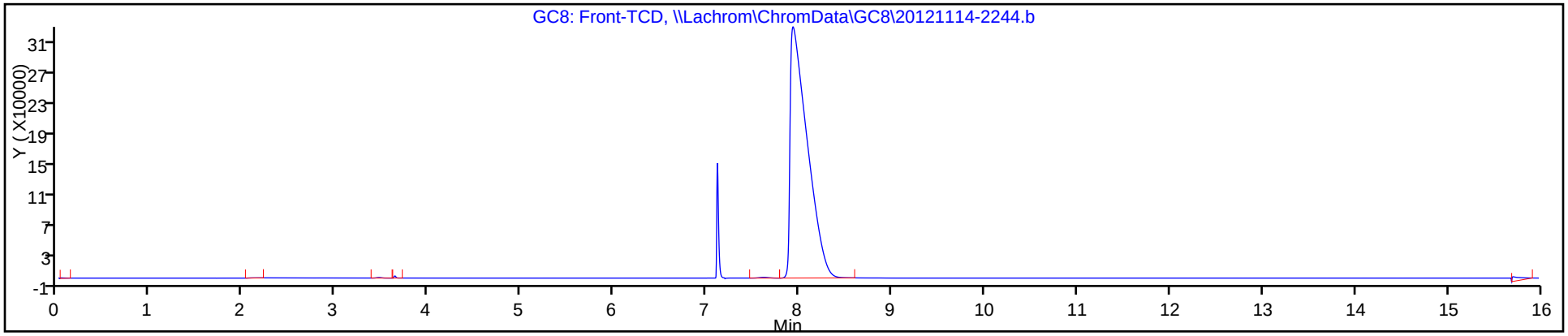
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	4.993	4.947	0.046	52997	30473	
1 Hydrogen						
2	5.323	5.280	0.043	85741	31134	

Report Date: 16-Nov-2012 10:51:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

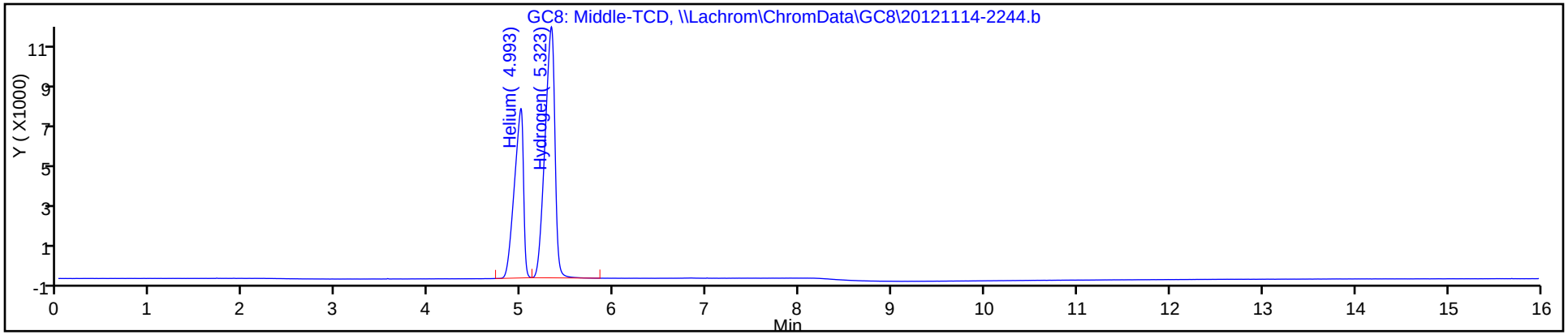
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-005 11-14-2012 4;20;31 pm-1.d		
Injection Date:	14-Nov-2012 16:20:31	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

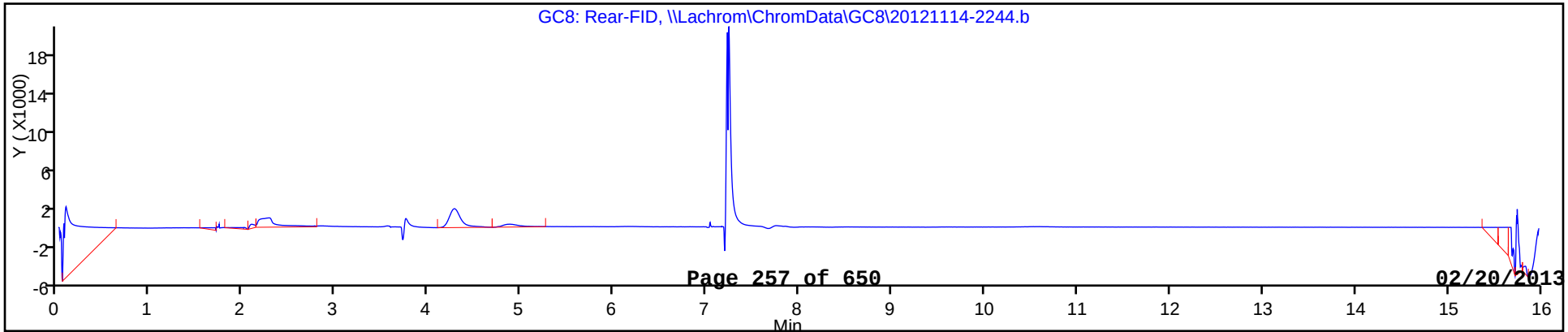
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Lims ID:	STD06	Client ID:	
Inject. Date:	14-Nov-2012 16:39:02	Dil. Factor:	1.0000
Sample Type:	ICRT	Calib Level:	6
Sample ID:	340-0002244-006		
Misc. Info.:	GCFGHEH2ICAL6_00002; 10% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	6
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:32	Calib Date:	14-Nov-2012 16:58:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-007 11-14-2012 4;58;00 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

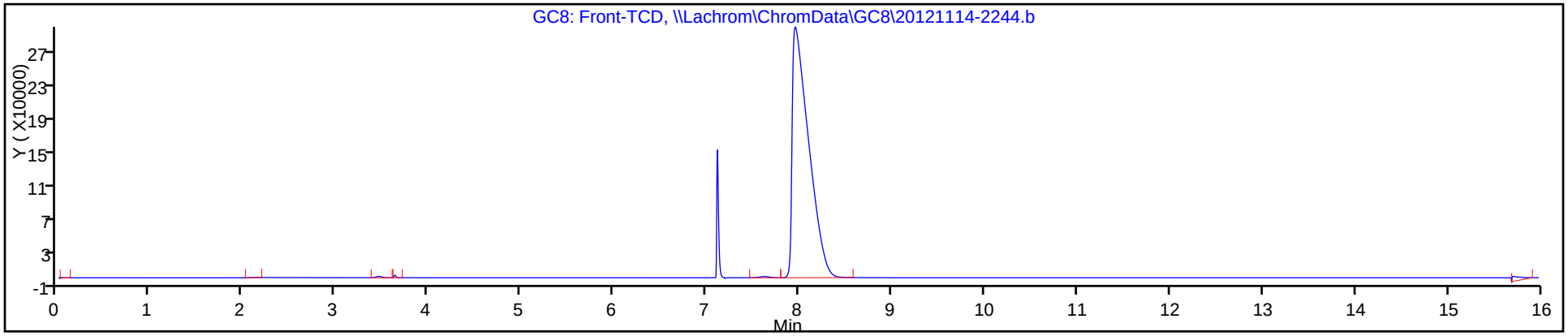
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	5.100	5.100	0.000	183047	105220	
1 Hydrogen						
2	5.443	5.443	0.000	287474	104315	

Report Date: 16-Nov-2012 10:51:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

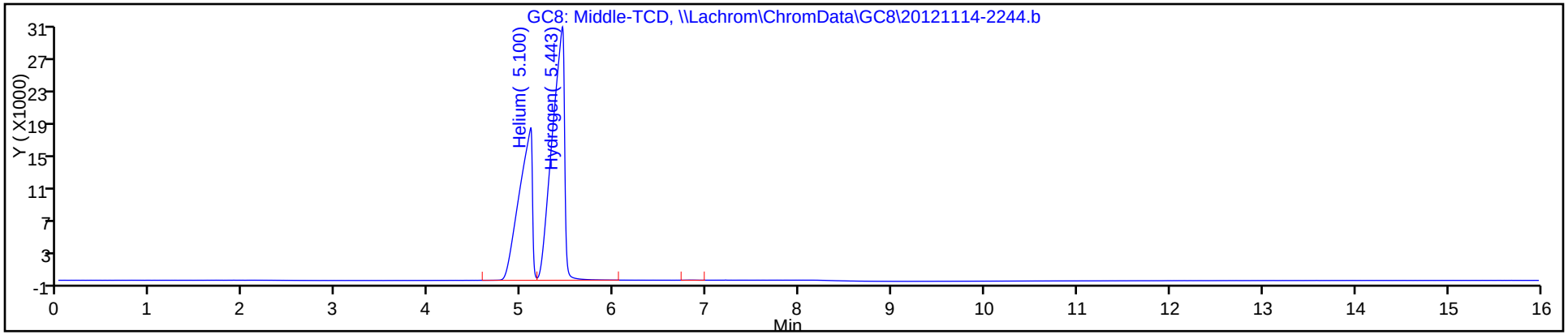
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-006 11-14-2012 4;39;02 pm-1.d		
Injection Date:	14-Nov-2012 16:39:02	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

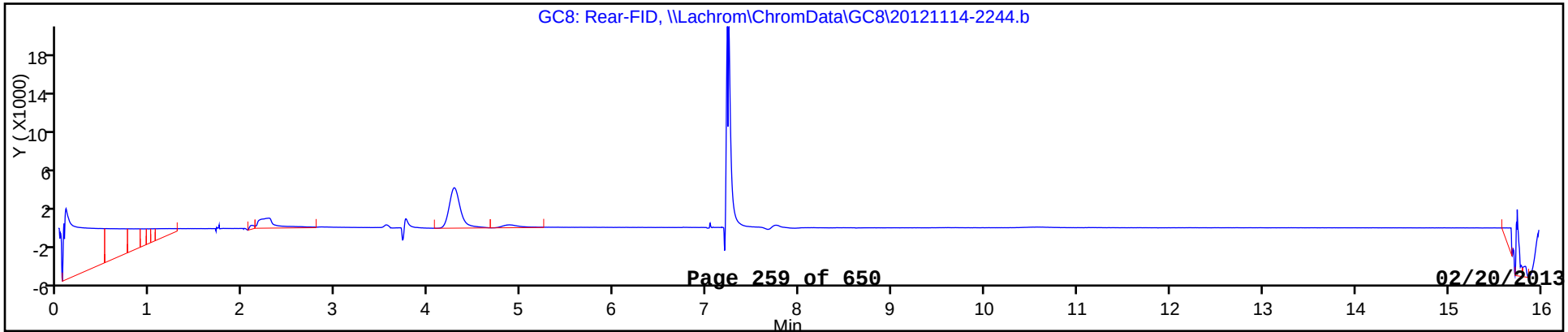
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-007 11-14-2012 4;58;00 pm-1.d		
Lims ID:	STD07	Client ID:	
Inject. Date:	14-Nov-2012 16:58:00	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	340-0002244-007		
Misc. Info.:	GCFGHEH2ICAL7_00002; 30% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	7
Sublist:	chrom-GC8D1946*sub21		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:32	Calib Date:	14-Nov-2012 16:58:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-007 11-14-2012 4;58;00 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	5.260	5.100	0.160	538568	309559	
1 Hydrogen						
2	5.670	5.443	0.227	870322	315748	

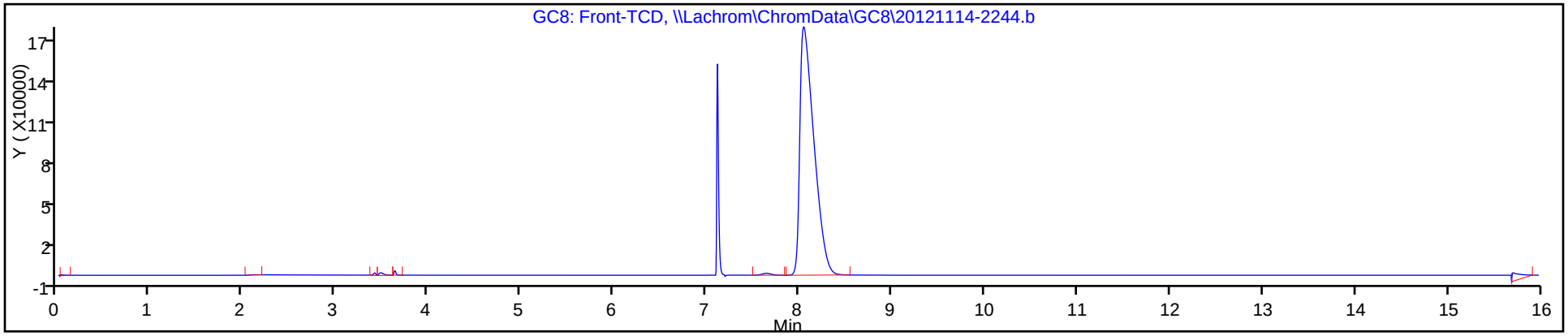
Report Date: 16-Nov-2012 10:51:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

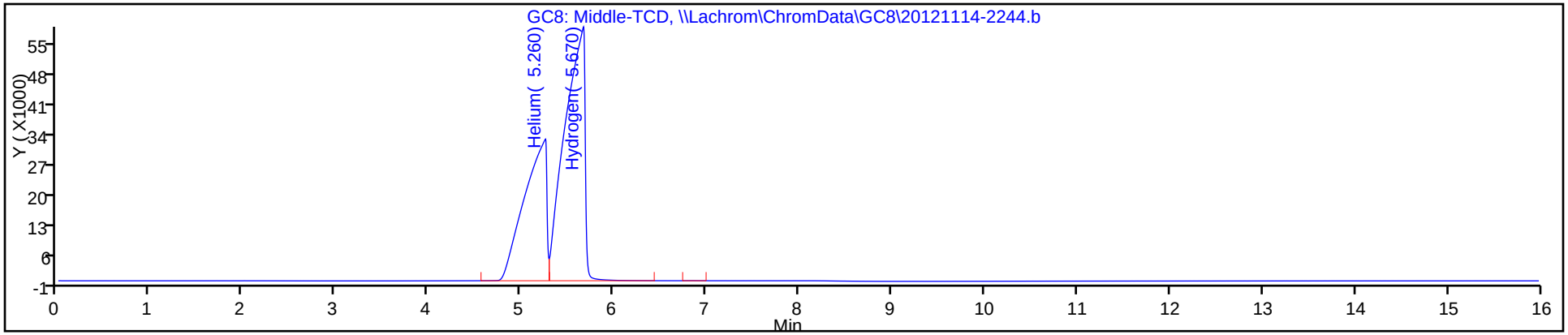
Data File: \\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-007 11-14-2012 4;58;00 pm-1.d

Injection Date:	14-Nov-2012 16:58:00	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

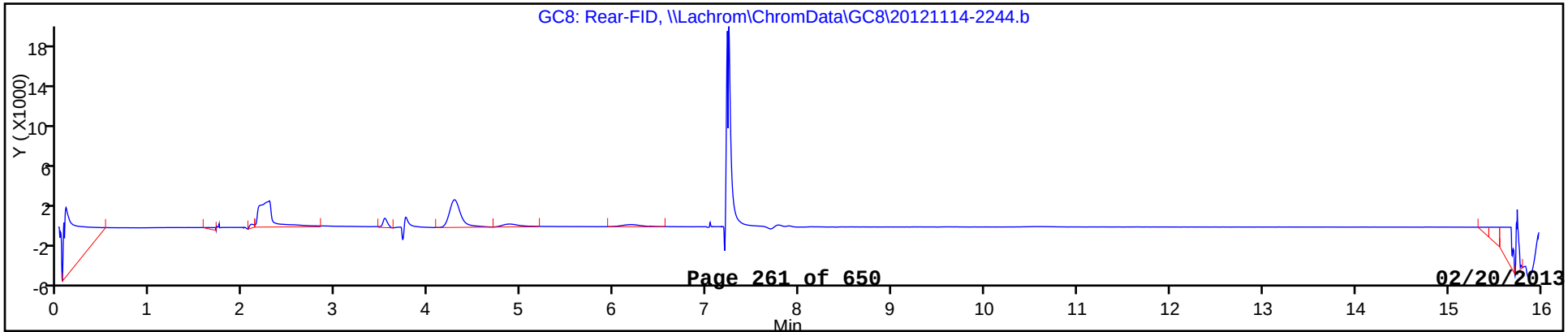
Y Scaling:



Y Scaling:



Y Scaling:



FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3380

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 10:27 Calibration End Date: 11/29/2012 13:23 Calibration ID: 719

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3380/1	340-0002328-001
Level 2	STD02 340-3380/2	340-0002328-002
Level 3	STD03 340-3380/3	340-0002328-003
Level 4	STD04 340-3380/4	340-0002328-004
Level 5	STD05 340-3380/5	340-0002328-005
Level 6	STD06 340-3380/6	340-0002328-006
Level 7	STD07 340-3380/7	340-0002328-007
Level 8	STD09 340-3380/9	340-0002328-009
Level 9	STD08 340-3380/8	340-0002328-008

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9		RT WINDOW	AVG RT
Carbon Dioxide (FID)			4.270	4.270	4.270	4.267	4.267	+++++			3.970 - 4.570	4.269
Ethene	4.870	4.870	4.867	4.867	4.867	4.863	4.857		4.850		4.567 - 5.167	4.864
Ethane	5.367	5.370	5.367	5.370	5.370	5.367	5.360		5.357		5.070 - 5.670	5.366
Methane (FID)	9.580	9.580	9.580	9.587	9.583	9.583	9.580		9.577		9.287 - 9.887	9.581
Carbon monoxide	10.533	+++++	10.527	10.537	10.533	10.533	10.537	10.527			10.237 - 10.837	10.533

FORM VI
GC VOA INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3380

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 10:27 Calibration End Date: 11/29/2012 13:23 Calibration ID: 719

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3380/1	340-0002328-001
Level 2	STD02 340-3380/2	340-0002328-002
Level 3	STD03 340-3380/3	340-0002328-003
Level 4	STD04 340-3380/4	340-0002328-004
Level 5	STD05 340-3380/5	340-0002328-005
Level 6	STD06 340-3380/6	340-0002328-006
Level 7	STD07 340-3380/7	340-0002328-007
Level 8	STD09 340-3380/9	340-0002328-009
Level 9	STD08 340-3380/8	340-0002328-008

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
Carbon Dioxide (FID)	3696.0	3714.7	3664.5 3954.7	3563.3 +++++	Lin1	-70101.880	3909.72124							0.9990		0.9900
Ethene	7807.6 7114.1 7445.2	6873.7 7097.1	6973.0 7579.5	6900.9	Lin1	-5437.1185	7447.45864							1.0000		0.9900
Ethane	6190.4 6650.9 6841.2	6203.3 6616.6	6504.9 7117.7	6466.2	Lin1	-7989.1564	6901.07463							0.9990		0.9900
Methane (FID)	3674.2 3544.2 3907.7	3258.1 3532.4	3435.1 3805.4	3453.3	Lin1	-5497.7694	3838.21702							0.9990		0.9900
Carbon monoxide	3734.4 3675.4	+++++ 3631.4	3564.8 3914.3	3578.6 4028.7	Lin1	-11247.037	3957.50261							0.9990		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 Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 3380

SDG No.:

Instrument ID: GC8 GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 11/29/2012 10:27 Calibration End Date: 11/29/2012 13:23 Calibration ID: 719

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD01 340-3380/1	340-0002328-001
Level 2	STD02 340-3380/2	340-0002328-002
Level 3	STD03 340-3380/3	340-0002328-003
Level 4	STD04 340-3380/4	340-0002328-004
Level 5	STD05 340-3380/5	340-0002328-005
Level 6	STD06 340-3380/6	340-0002328-006
Level 7	STD07 340-3380/7	340-0002328-007
Level 8	STD09 340-3380/9	340-0002328-009
Level 9	STD08 340-3380/8	340-0002328-008

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (PPM V/V)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Carbon Dioxide (FID)	Lin1	7414516	39468374	365718 +++++	1778101	3688646	1996	9980	99.8 +++++	499	998
Ethene	Lin1	38843 7061647	68393 37708018	346907	1716597 74079693	3539277	4.98 995	9.95 4975	49.8	249 9950	498
Ethane	Lin1	30921 6609997	61971 35552745	324919	1614927 68344035	3322100	5.00 999	9.99 4995	50.0	250 9990	500
Methane (FID)	Lin1	14550 3497050	32255 18836933	170038	854683 38686538	1754394	3.96 990	9.90 4950	49.5	248 9900	495
Carbon monoxide	Lin1	34021 3275483	+++++ 17653707	160772 36339191	806968	1657594	9.11 902	+++++ 4510	45.1 9020	226	451

Curve Type Legend:
Lin1 = Linear 1/conc

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-001 11-29-2012 10;27;31 am-1.d		
Lims ID:	STD01	Client ID:	
Inject. Date:	29-Nov-2012 10:27:31	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	340-0002328-001		
Misc. Info.:	GCFGLOQ_00006; 99.8PPMCO2; 9.11PPM CO; 3.96PPMCH4; 4.975PPMC2H4; 4.99 PPMC2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	1
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:32	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 29-Nov-2012 13:58:10

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.270	4.270	0.000	357190	109.3	
5 Ethylene						
3	4.870	4.867	0.003	38843	5.95	
4 Ethane						
3	5.367	5.370	-0.003	30921	5.64	
11 CH4-FID						
3	9.580	9.587	-0.007	14550	5.22	
7 Carbon monoxide						M
3	10.533	10.537	-0.004	34021	11.4	M

QC Flag Legend

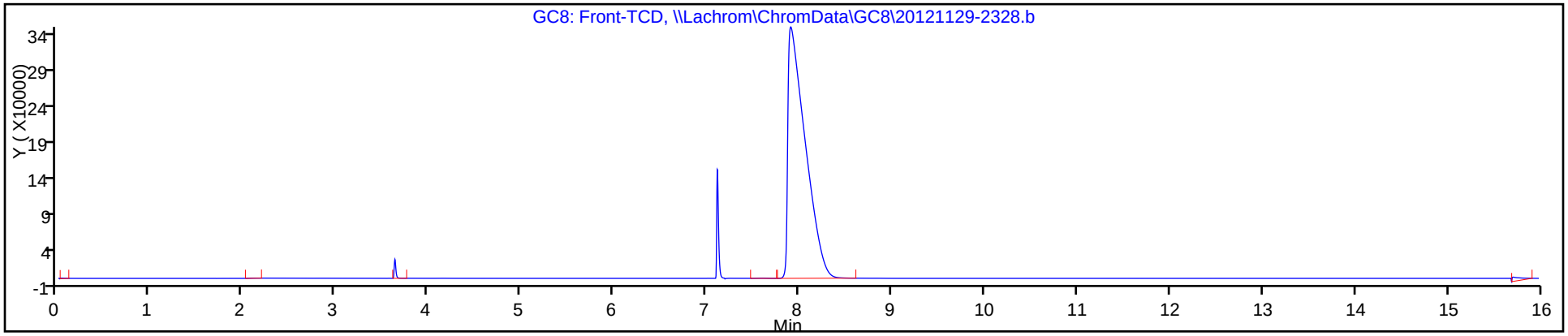
Review Flags
M - Manually Integrated

Report Date: 29-Nov-2012 14:36:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

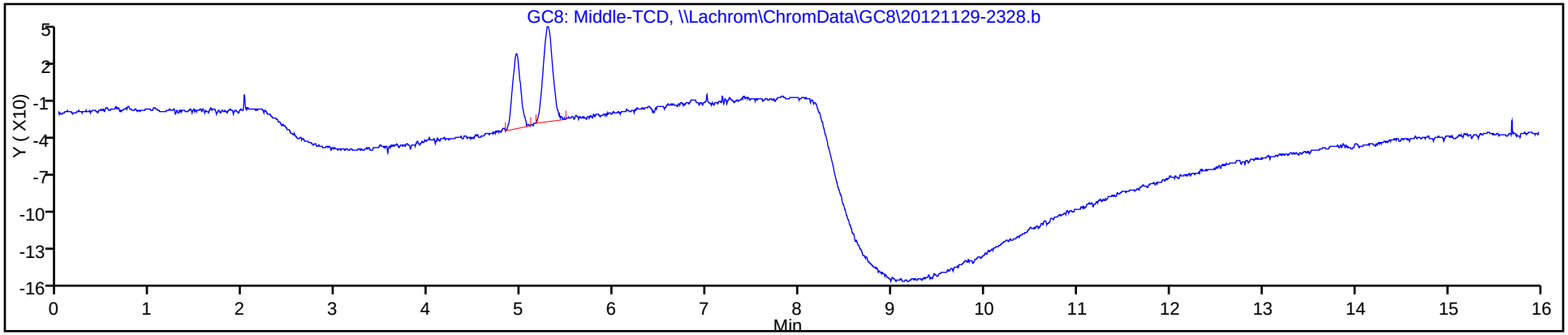
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-001 11-29-2012 10;27;31 am-1.d		
Injection Date:	29-Nov-2012 10:27:31	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	1
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

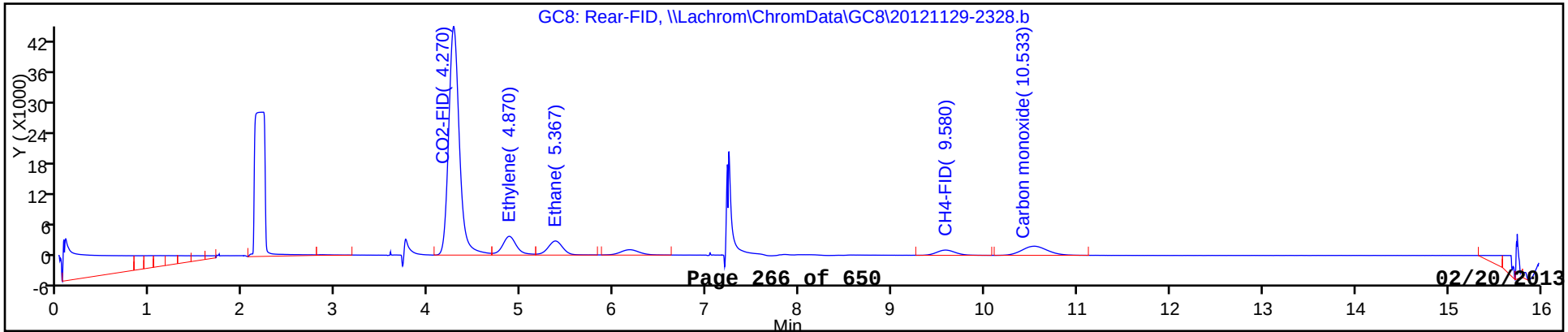
Y Scaling:



Y Scaling:



Y Scaling:



Report Date: 29-Nov-2012 14:36:32 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

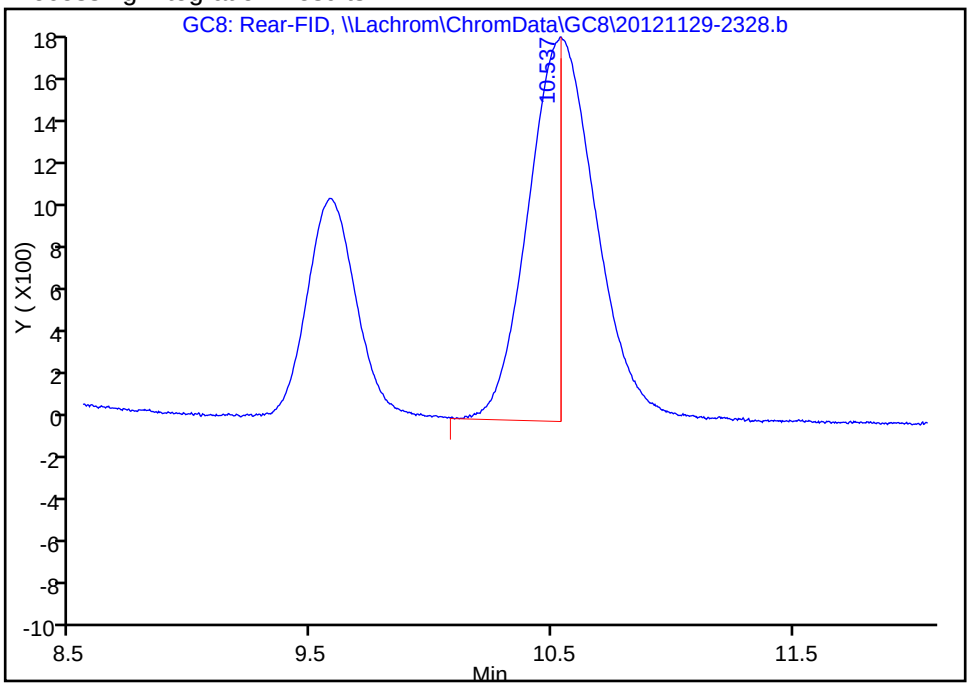
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-001 11-29-2012 10;27;31 am-1.d		
Injection Date:	29-Nov-2012 10:27:31	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	1
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

7 Carbon monoxide, Signal: 1, Type: quant, RT: 10.54, Det: Rear-FID

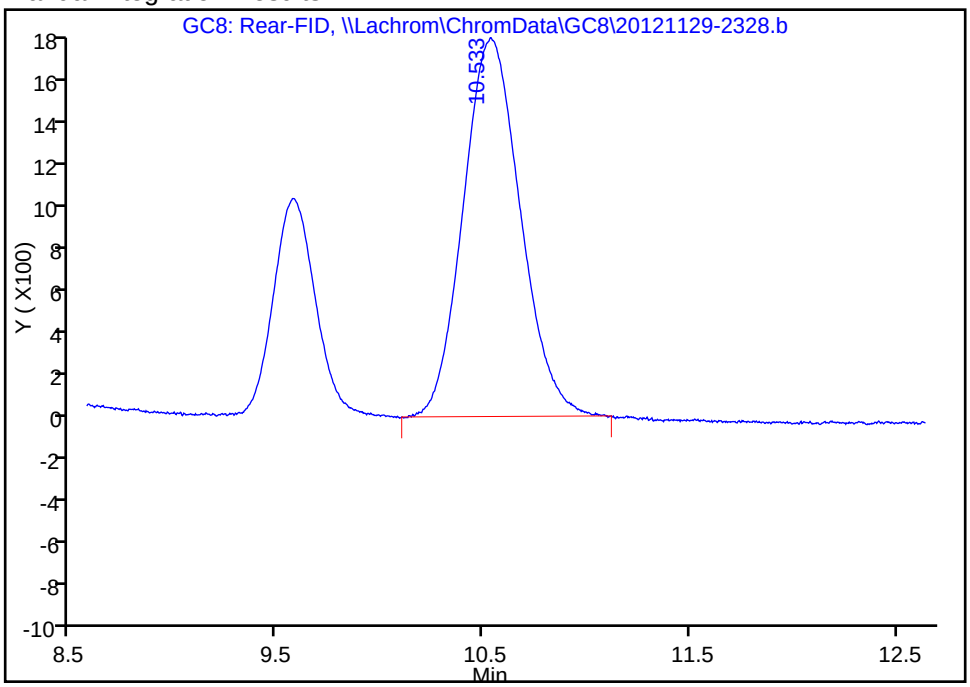
Processing Integration Results

RT: 10.54
Response: 16597
Amount: 4.798714



Manual Integration Results

RT: 10.53
Response: 34021
Amount: 11.438536



Reviewer: iancue, 29-Nov-2012 13:58:10
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-002 11-29-2012 11;02;27 am-1.d		
Lims ID:	STD02	Client ID:	
Inject. Date:	29-Nov-2012 11:02:27	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	340-0002328-002		
Misc. Info.:	GCFGFIDCAL2_00003; 19.96PPMCO2; 9.02PPM CO; 9.9PPMCH4; 9.95PPMC2H4; 9.99PPMC2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	2
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:33	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

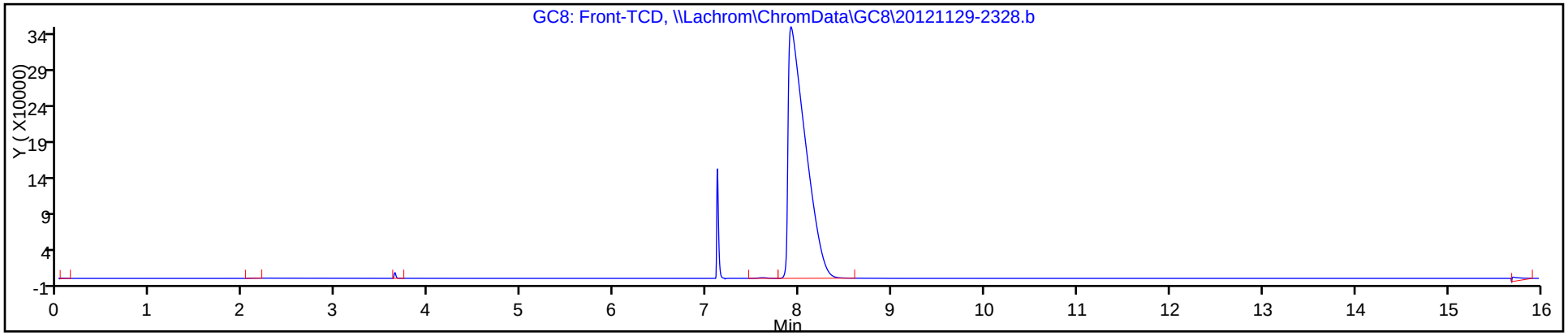
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.273	4.270	0.003	89061	40.7	
5 Ethylene						
3	4.870	4.867	0.003	68393	9.91	
4 Ethane						
3	5.370	5.370	0.000	61971	10.1	
11 CH4-FID						
3	9.580	9.587	-0.007	32255	9.84	
7 Carbon monoxide						
3	10.540	10.537	0.003	31156	10.7	

Report Date: 29-Nov-2012 14:36:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

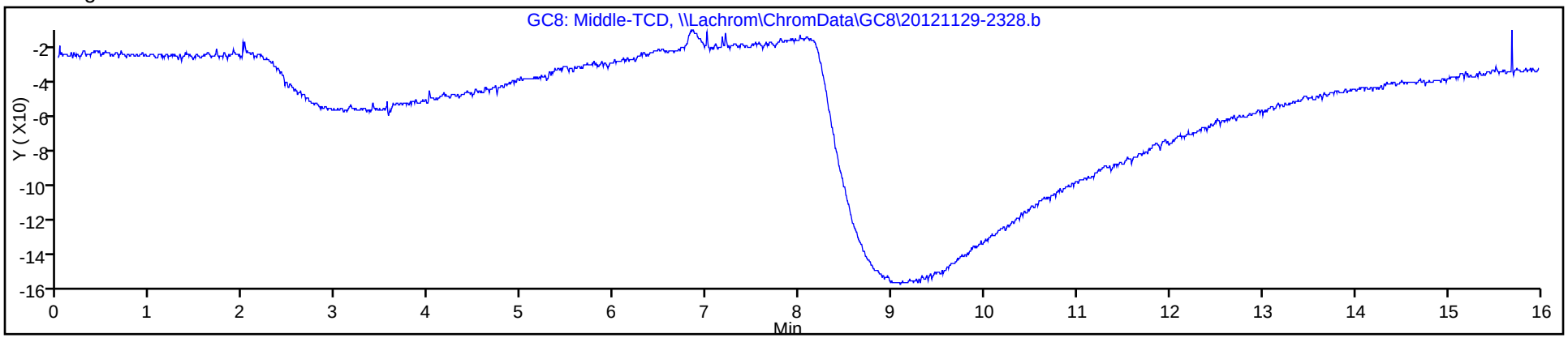
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-002 11-29-2012 11;02;27 am-1.d		
Injection Date:	29-Nov-2012 11:02:27	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	2
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

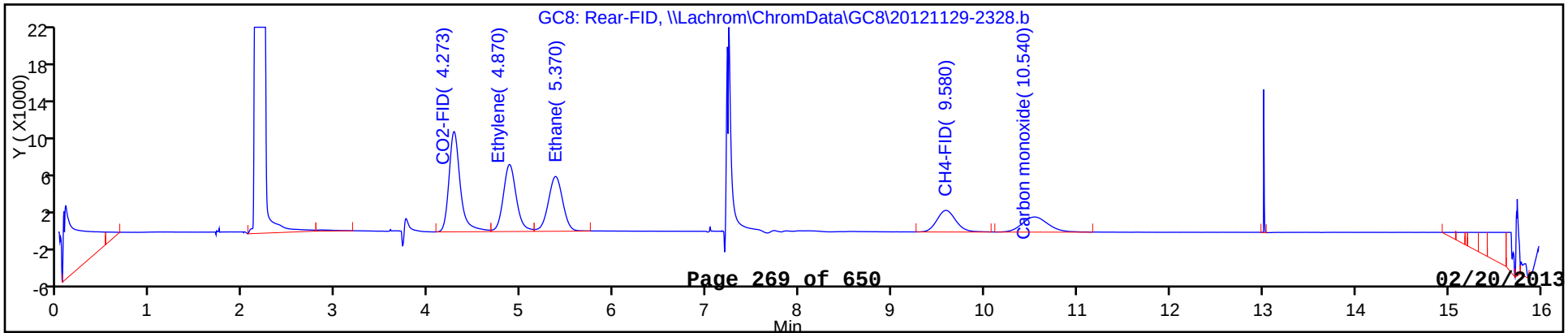
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-003 11-29-2012 11;25;38 am-1.d
Lims ID: STD03 Client ID:
Inject. Date: 29-Nov-2012 11:25:38 Dil. Factor: 1.0000
Sample Type: IC Calib Level: 3
Sample ID: 340-0002328-003
Misc. Info.: GCFGFIDCAL03_00003; 99.8PPMCO2; 45.1PPM CO; 49.5PPMCH4; 49.75PPMC2H4; 49.95PPMC2H6; EI;
Operator: EI Instrument ID: GC8
Injection Vol: 1.0 ul ALS Bottle#: 0
Lims Batch ID: 3380 Lims Sample ID: 3
Sublist: chrom-GC8D1946*sub4
Detector 1 : GC8: Front-TCD
Detector 2 : GC8: Middle-TCD
Detector 3 : GC8: Rear-FID

Method: \\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m
Method Label: D1946 Sample Report
Last Update: 29-Nov-2012 14:36:34 Calib Date: 29-Nov-2012 13:23:46
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d
Limit Group: ASTM D-1946
Integrator: Falcon
Column Type: Column Dia:
Process Host: CORP-CTX-12

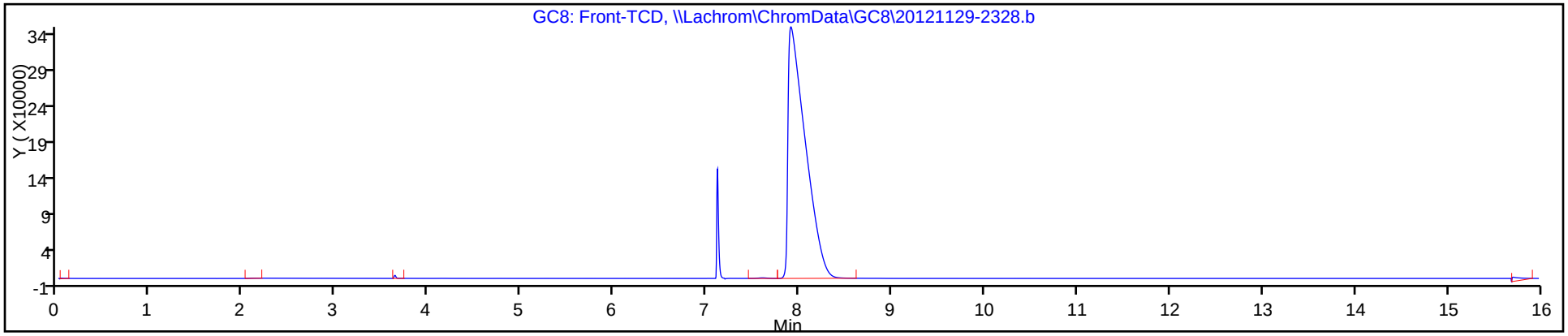
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.270	4.270	0.000	365718	111.5	
5 Ethylene						
3	4.867	4.867	0.000	346907	47.3	
4 Ethane						
3	5.367	5.370	-0.003	324919	48.2	
11 CH4-FID						
3	9.580	9.587	-0.007	170038	45.7	
7 Carbon monoxide						
3	10.527	10.537	-0.010	160772	43.5	

Report Date: 29-Nov-2012 14:36:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

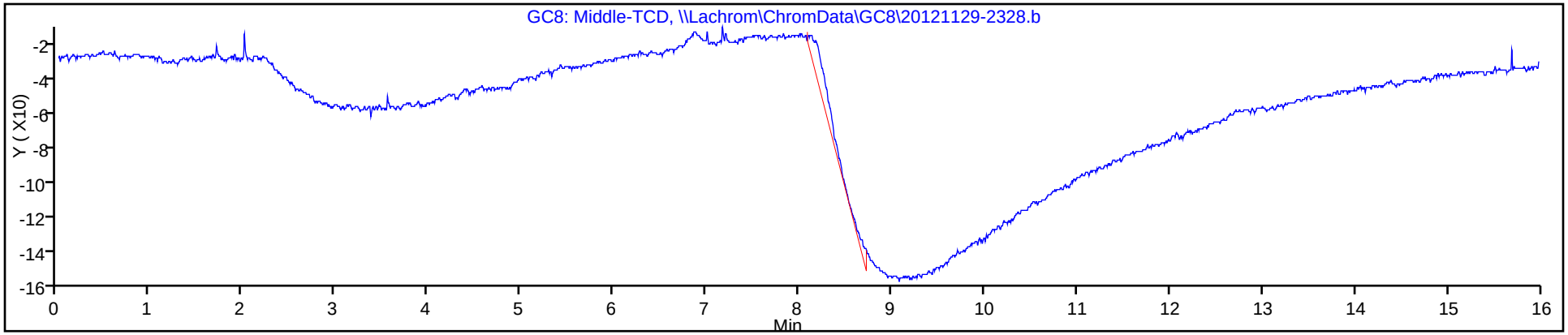
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-003 11-29-2012 11;25;38 am-1.d		
Injection Date:	29-Nov-2012 11:25:38	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

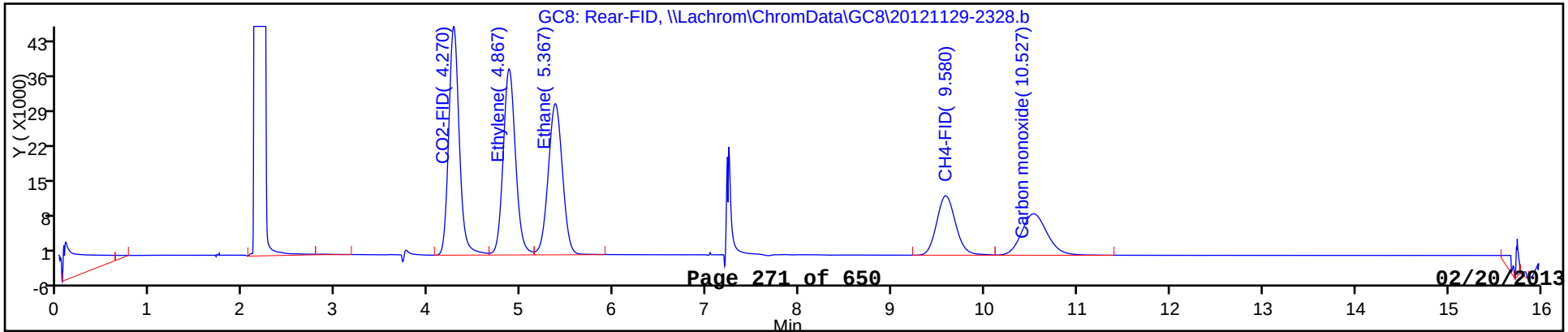
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-004 11-29-2012 11;43;30 am-1.d		
Lims ID:	STD04	Client ID:	
Inject. Date:	29-Nov-2012 11:43:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	340-0002328-004		
Misc. Info.:	GCFGFIDCAL04_00003; 499PPMCO2; 225.5PPM CO; 247.5PPMCH4; 248.75PPMC2H4; 249.75PPMC2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	4
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:35	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

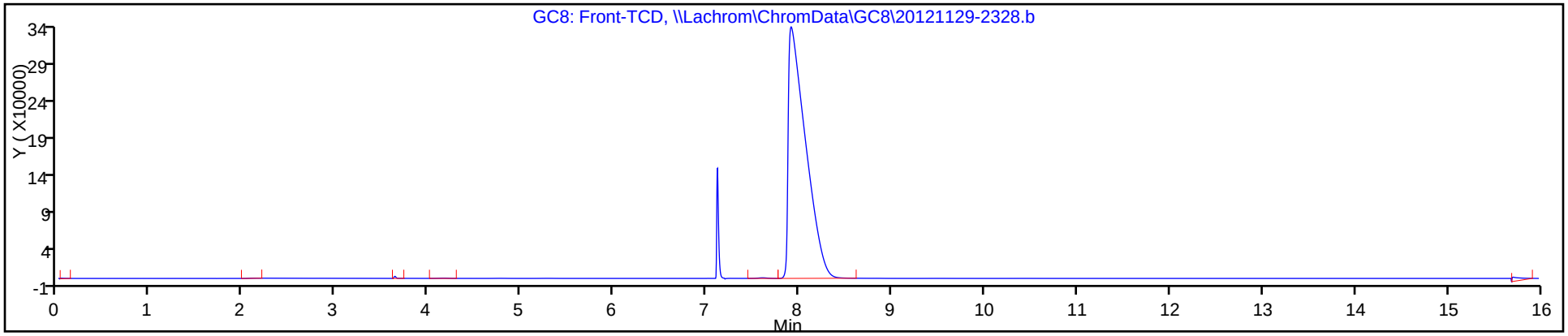
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.270	4.270	0.000	1778101	472.7	
5 Ethylene						
3	4.867	4.867	0.000	1716597	231.2	
4 Ethane						
3	5.370	5.370	0.000	1614927	235.2	
11 CH4-FID						
3	9.587	9.587	0.000	854683	224.1	
7 Carbon monoxide						
3	10.537	10.537	0.000	806968	206.8	

Report Date: 29-Nov-2012 14:36:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

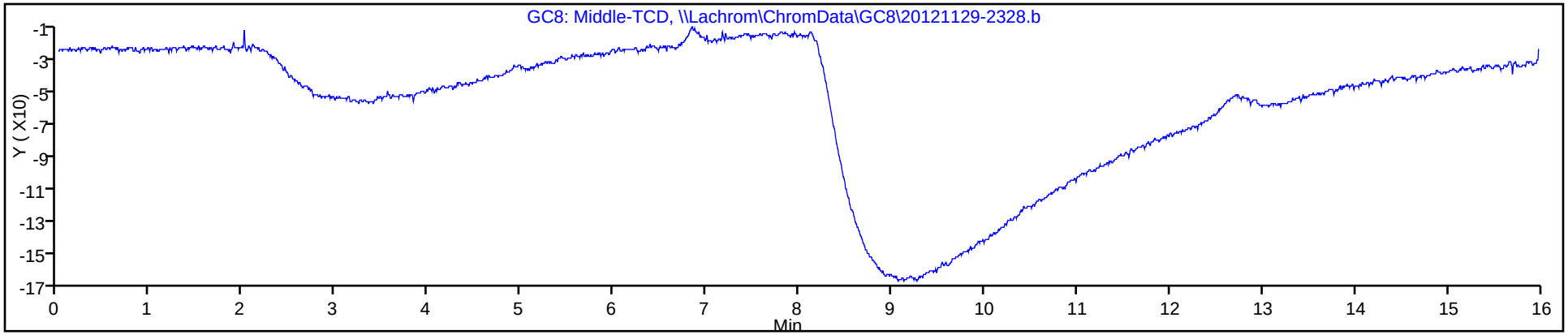
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-004 11-29-2012 11;43;30 am-1.d		
Injection Date:	29-Nov-2012 11:43:30	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

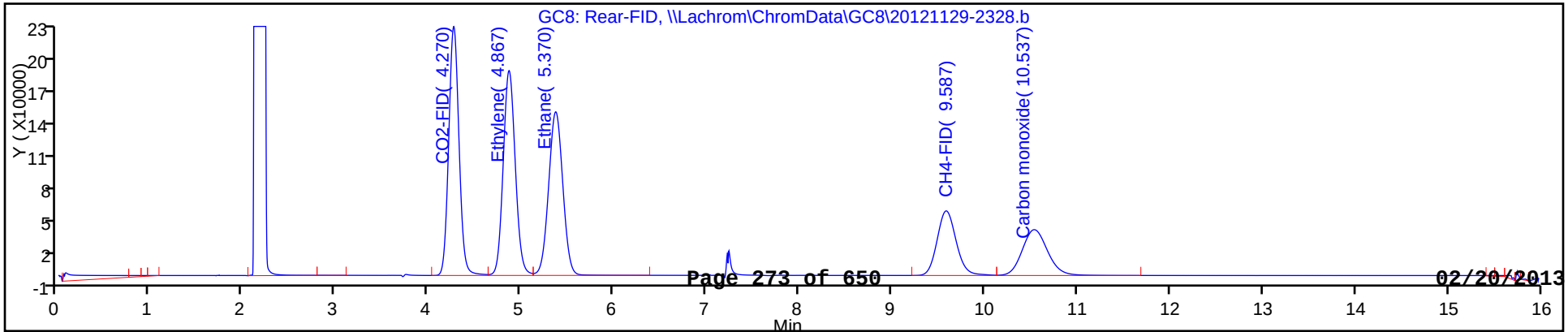
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-005 11-29-2012 12;03;44 pm-1.d		
Lims ID:	STD05	Client ID:	
Inject. Date:	29-Nov-2012 12:03:44	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	5
Sample ID:	340-0002328-005		
Misc. Info.:	GCFGFIFCAL05_00003; 998PPM CO2; 451PPM CO; 495PPM CH4; 497.5PPM C2H4; 499.5PPM C2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	5
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:35	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

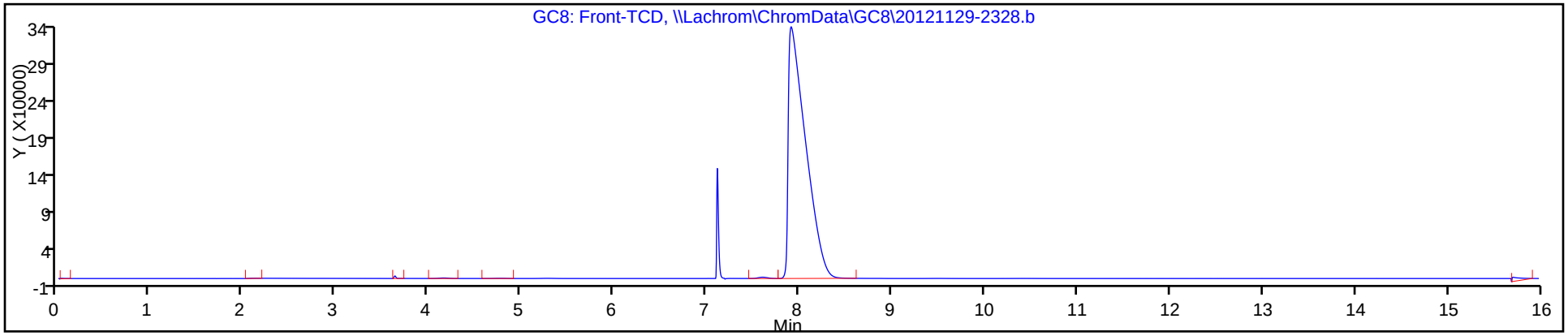
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.270	4.270	0.000	3688646	961.4	
5 Ethylene						
3	4.867	4.867	0.000	3539277	476.0	
4 Ethane						
3	5.370	5.370	0.000	3322100	482.5	
11 CH4-FID						
3	9.583	9.587	-0.004	1754394	458.5	
7 Carbon monoxide						
3	10.533	10.537	-0.004	1657594	421.7	

Report Date: 29-Nov-2012 14:36:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

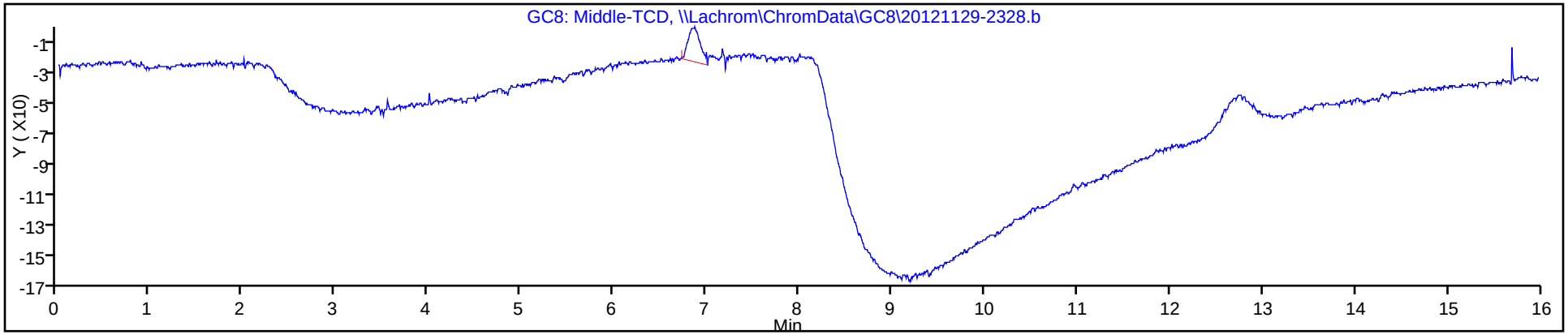
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-005 11-29-2012 12;03;44 pm-1.d		
Injection Date:	29-Nov-2012 12:03:44	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

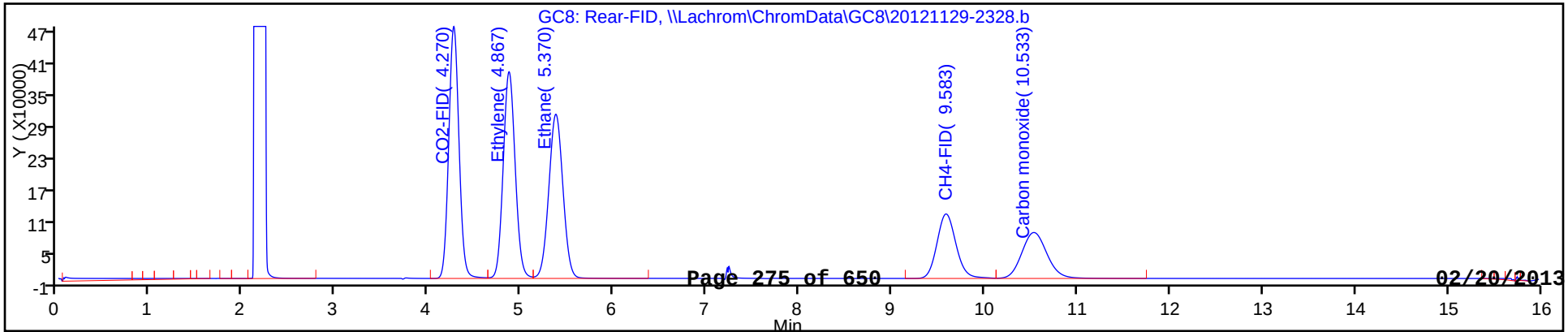
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-006 11-29-2012 12;24;51 pm-1.d		
Lims ID:	STD06	Client ID:	
Inject. Date:	29-Nov-2012 12:24:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	340-0002328-006		
Misc. Info.:	GCFGFIFCAL07_00003; 1996PPM CO2; 902PPM CO; 990PPM CH4; 995PPM C2H4; 9 99PPM C2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	6
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

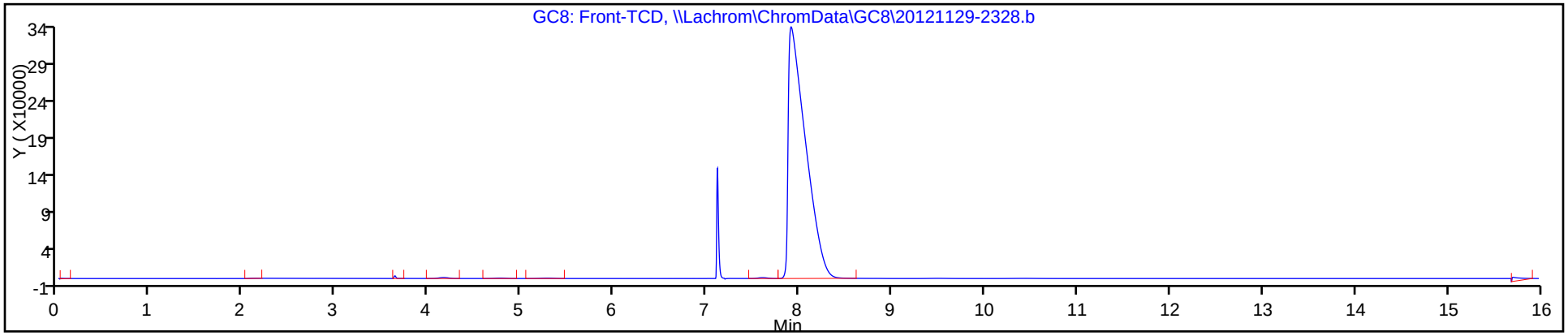
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.267	4.270	-0.003	7414516	1914.4	
5 Ethylene						
3	4.863	4.867	-0.004	7061647	948.9	
4 Ethane						
3	5.367	5.370	-0.003	6609997	959.0	
11 CH4-FID						
3	9.583	9.587	-0.004	3497050	912.5	
7 Carbon monoxide						
3	10.533	10.537	-0.004	3275483	830.5	

Report Date: 29-Nov-2012 14:36:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

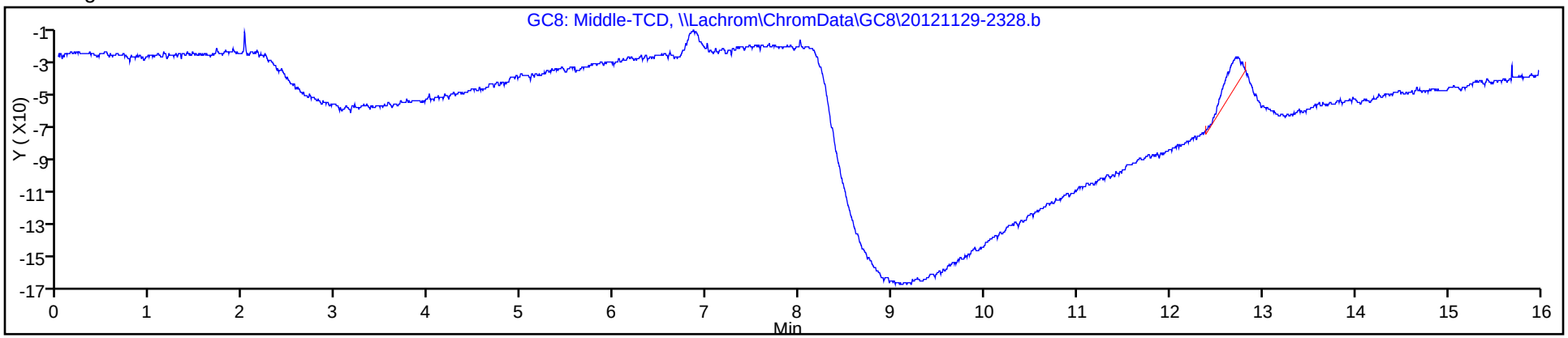
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-006 11-29-2012 12;24;51 pm-1.d		
Injection Date:	29-Nov-2012 12:24:51	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

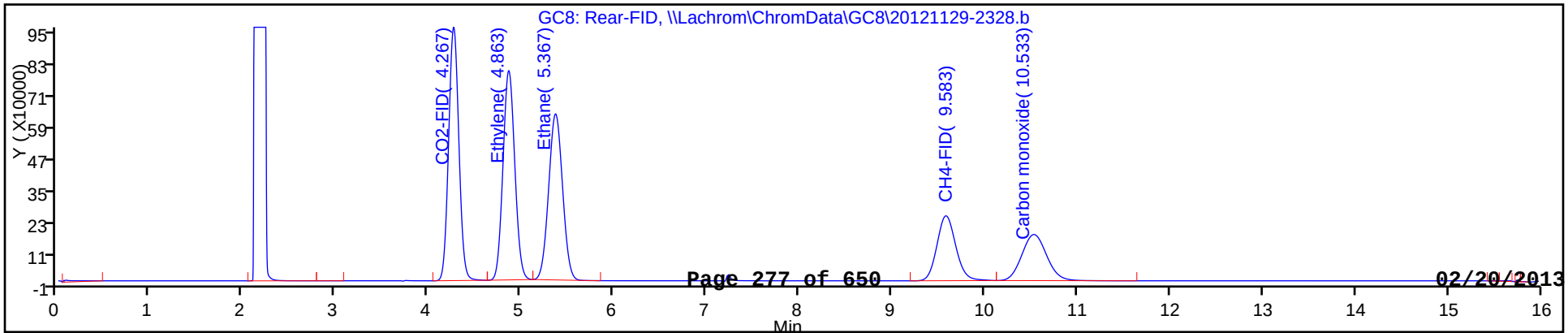
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-007 11-29-2012 12;48;02 pm-1.d		
Lims ID:	STD07	Client ID:	
Inject. Date:	29-Nov-2012 12:48:02	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	340-0002328-007		
Misc. Info.:	GCFGFIFCAL06_00002; 9980PPM CO2; 4510PPM CO; 4950PPM CH4; 4975PPM C2H4 ; 4995PPM C2H6; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	7
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

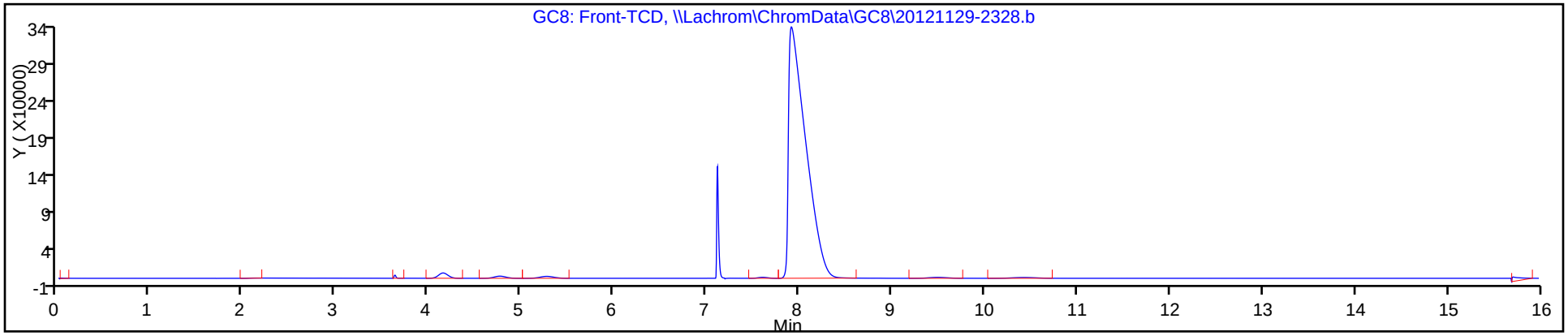
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.267	4.270	-0.003	39468374	10113	
5 Ethylene						
3	4.857	4.867	-0.010	37708018	5063.9	
4 Ethane						
3	5.360	5.370	-0.010	35552745	5152.9	
11 CH4-FID						
3	9.580	9.587	-0.007	18836933	4909.2	
7 Carbon monoxide						
3	10.537	10.537	0.000	17653707	4463.7	

Report Date: 29-Nov-2012 14:36:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

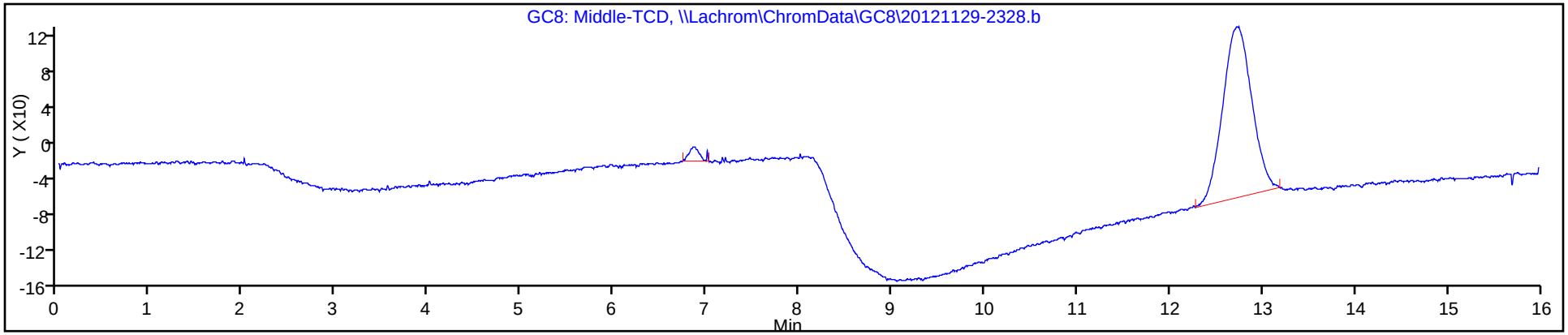
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-007 11-29-2012 12;48;02 pm-1.d		
Injection Date:	29-Nov-2012 12:48:02	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

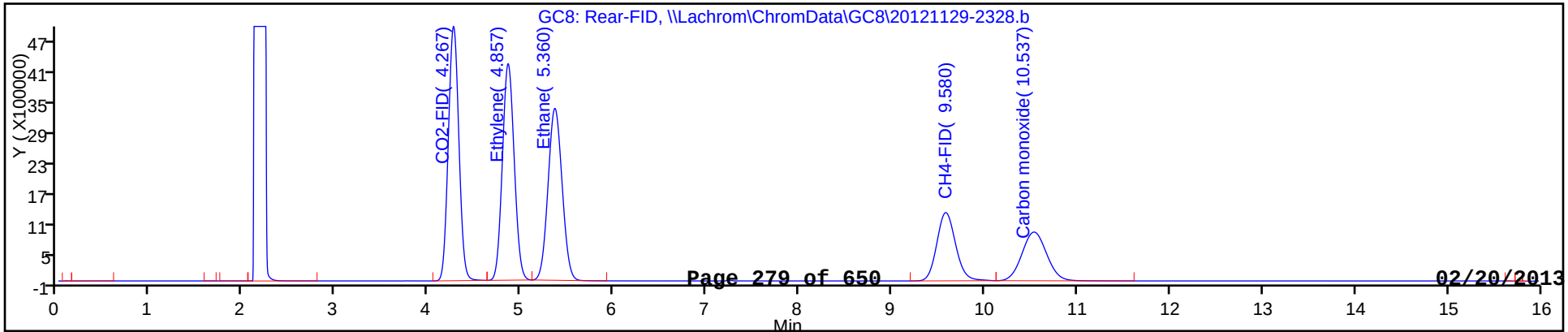
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-008 11-29-2012 1;05;51 pm-1.d		
Lims ID:	STD08	Client ID:	
Inject. Date:	29-Nov-2012 13:05:51	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	340-0002328-008		
Misc. Info.:	GCFGFIFCAL09_00002; 1% CH4 C2H4 C2H6; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	8
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:37	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
5 Ethylene						
3	4.850	4.867	-0.017	74079693	9947.7	
4 Ethane						
3	5.357	5.370	-0.013	68344035	9904.5	
11 CH4-FID						
3	9.577	9.587	-0.010	38686538	10081	

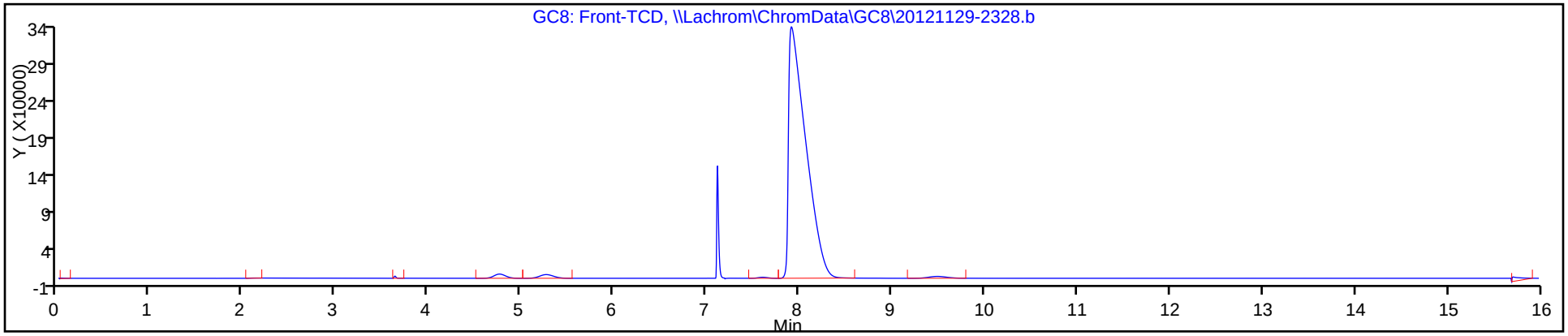
Report Date: 29-Nov-2012 14:36:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

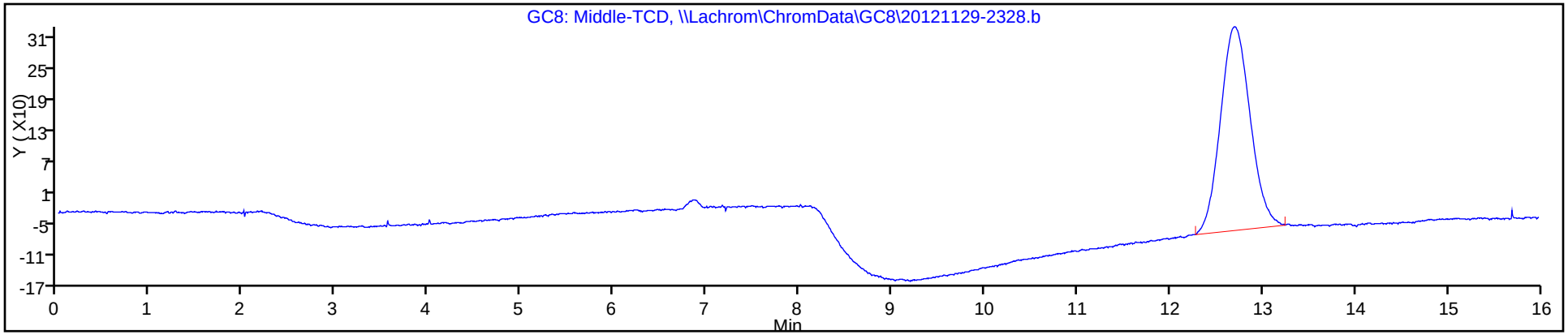
Data File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-008 11-29-2012 1;05;51 pm-1.d

Injection Date:	29-Nov-2012 13:05:51	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

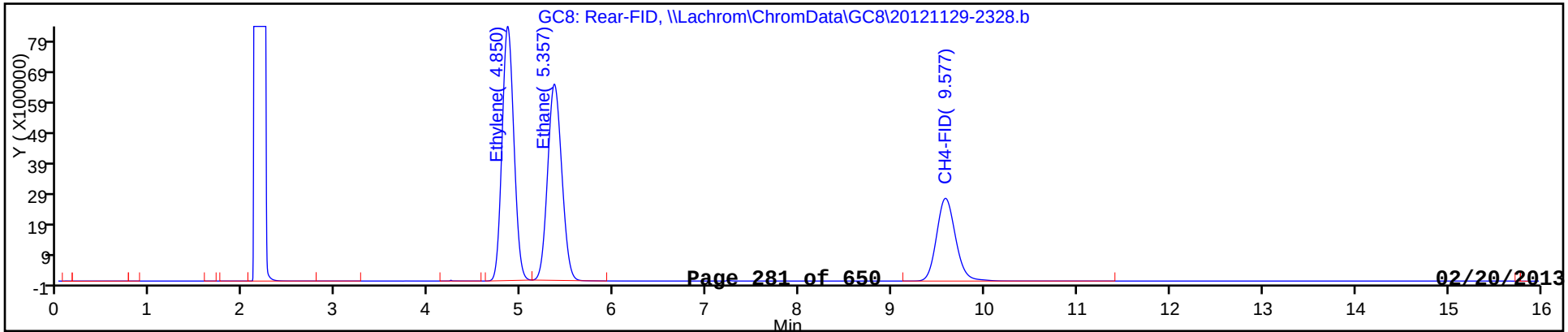
Y Scaling:



Y Scaling:



Y Scaling:



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Lims ID:	STD09	Client ID:	
Inject. Date:	29-Nov-2012 13:23:46	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	9
Sample ID:	340-0002328-009		
Misc. Info.:	GCFGFIFCAL10_00002; 1% CO2,CO; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	9
Sublist:	chrom-GC8D1946*sub4		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:37	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

First Level Reviewer: iancue Date: 29-Nov-2012 14:02:43

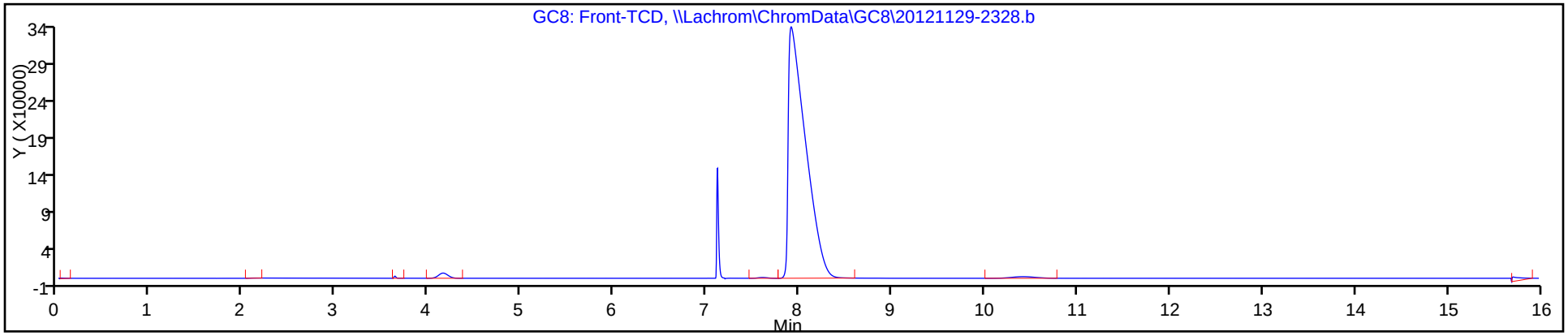
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.267	4.270	-0.003	39460646	10111	
7 Carbon monoxide						
3	10.527	10.537	-0.010	36339191	9185.2	

Report Date: 29-Nov-2012 14:36:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

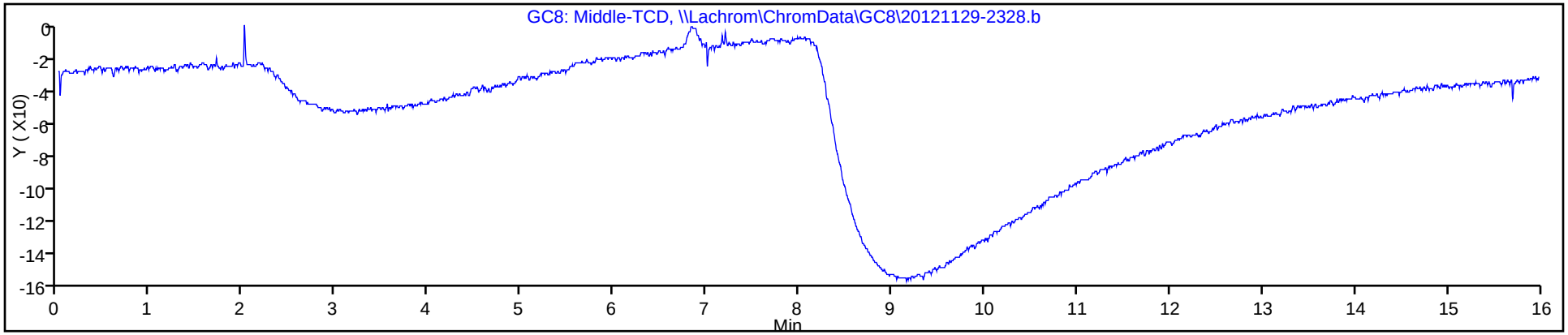
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Injection Date:	29-Nov-2012 13:23:46	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	9
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

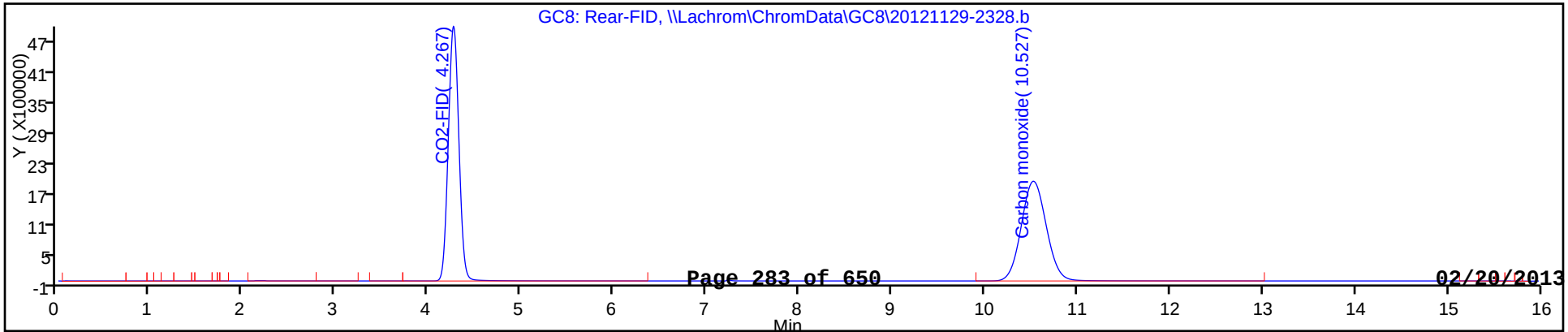
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-3249/8 Calibration Date: 11/14/2012 17:39

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002244-008 11-14-2012 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Helium	Lin2		1.885		135000	125000	8.3	20.0
Hydrogen	Lin2		2.963		134000	125000	7.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-3249/8 Calibration Date: 11/14/2012 17:39

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002244-008 11-14-2012 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Helium	5.14	4.80	5.40
Hydrogen	5.50	5.14	5.74

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-008 11-14-2012 5;39;27 pm-1.d		
Lims ID:	ICV heh2	Client ID:	
Inject. Date:	14-Nov-2012 17:39:27	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	340-0002244-008		
Misc. Info.:	GCFGHEH2ICV_00003; 12.5% HELIUM/HYDROGEN; EI;		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3249	Lims Sample ID:	8
Sublist:			
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121114-2244.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	16-Nov-2012 10:51:32	Calib Date:	14-Nov-2012 16:58:00
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-007 11-14-2012 4;58;00 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

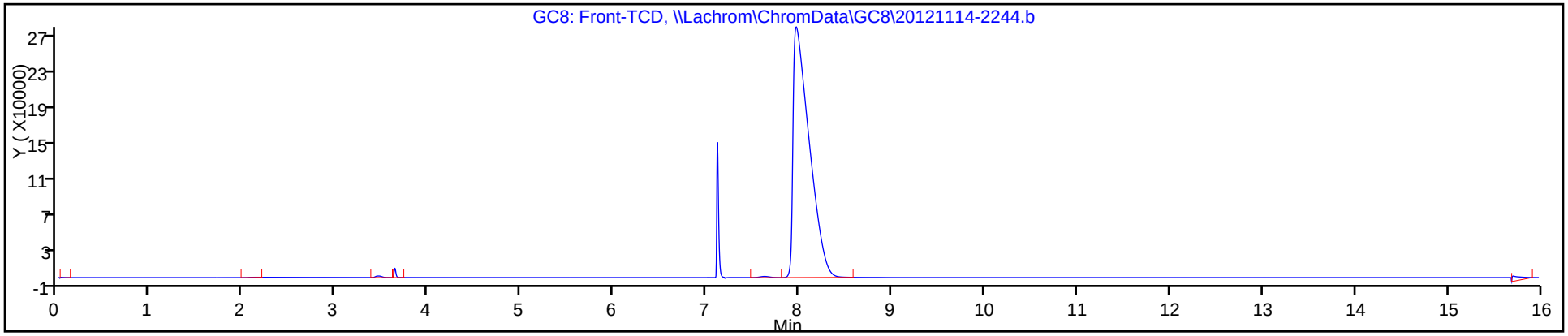
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
8 Helium						
2	5.143	5.100	0.043	235567	135407	
1 Hydrogen						
2	5.497	5.443	0.054	370337	134374	

Report Date: 16-Nov-2012 10:51:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

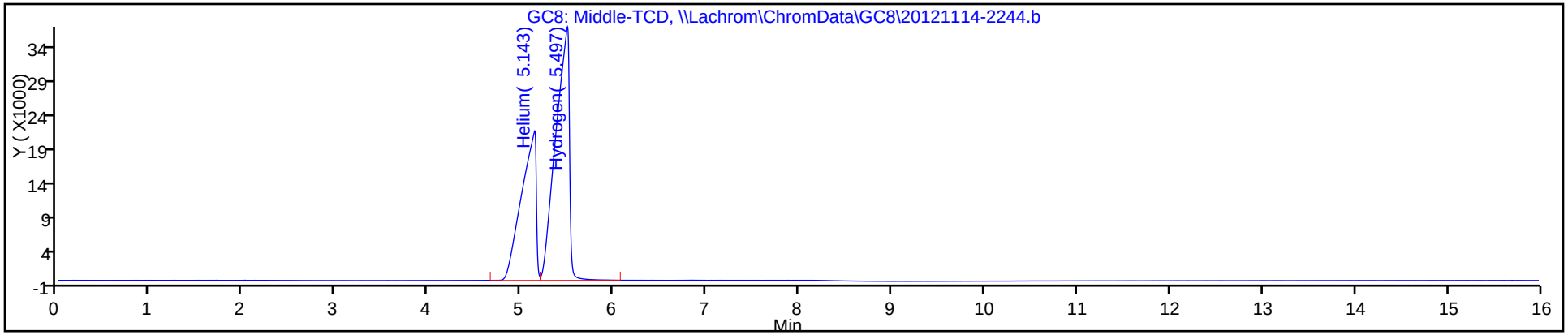
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20121114-2244.b\340-0002244-008 11-14-2012 5;39;27 pm-1.d		
Injection Date:	14-Nov-2012 17:39:27	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3249	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

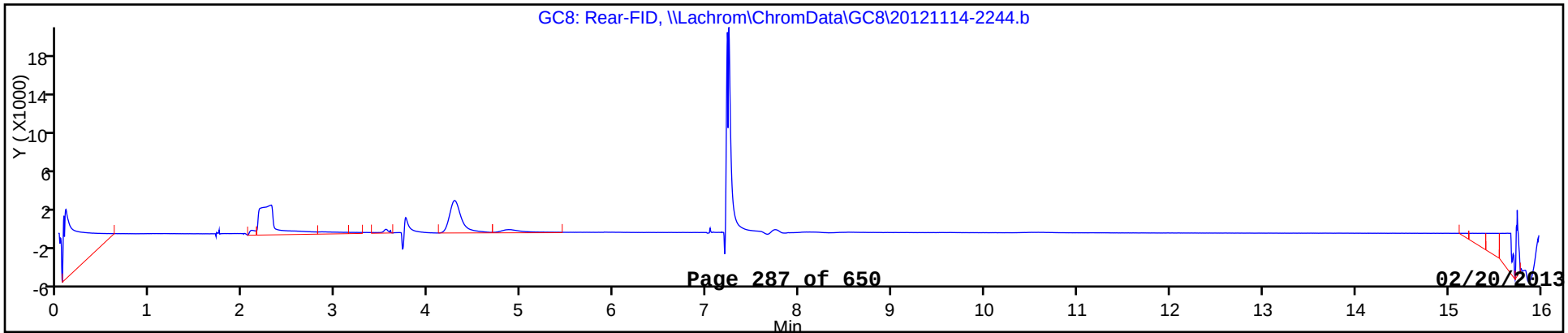
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-3380/10 Calibration Date: 11/29/2012 13:51

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002328-010 11-29-2012 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (FID)	Lin1		3665		1890	2000	-5.4	20.0
Ethene	Lin1		7089		943	990	-4.7	20.0
Ethane	Lin1		6630		952	990	-3.8	20.0
Methane (FID)	Lin1		3471		897	990	-9.4	20.0
Carbon monoxide	Lin1		3576		818	902	-9.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-3380/10 Calibration Date: 11/29/2012 13:51

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002328-010 11-29-2012 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (FID)	4.27	3.97	4.57
Ethene	4.86	4.57	5.17
Ethane	5.37	5.07	5.67
Methane (FID)	9.58	9.29	9.89
Carbon monoxide	10.53	10.24	10.84

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-010 11-29-2012 1;51;38 pm-1.d		
Lims ID:	ICV FID	Client ID:	
Inject. Date:	29-Nov-2012 13:51:38	Dil. Factor:	1.0000
Sample Type:	ICV		
Sample ID:	340-0002328-010		
Misc. Info.:	GCFGFIDICV_00004; 1999.8ppmCO2; 990ppmC2H4; 990ppmC2H6; 990ppmCH4; 902 ppmCO; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 ul	ALS Bottle#:	0
Lims Batch ID:	3380	Lims Sample ID:	10
Sublist:			
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20121129-2328.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Nov-2012 14:36:37	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	CORP-CTX-12		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.270	4.270	0.000	7328824	1892.4	
5 Ethylene						
3	4.863	4.867	-0.004	7018404	943.1	
4 Ethane						
3	5.370	5.370	0.000	6563852	952.3	
11 CH4-FID						
3	9.583	9.587	-0.004	3436721	896.8	
7 Carbon monoxide						
3	10.530	10.537	-0.007	3225481	817.9	

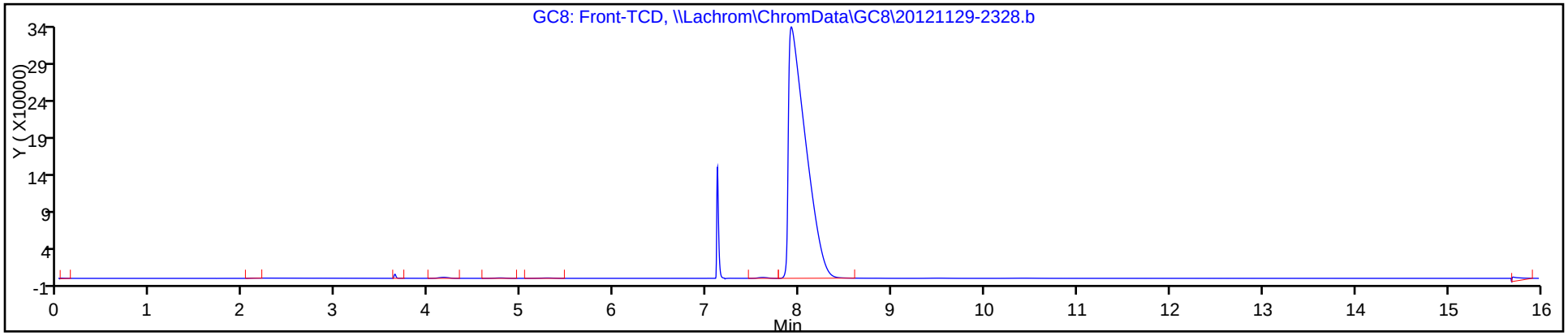
Report Date: 29-Nov-2012 14:36:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

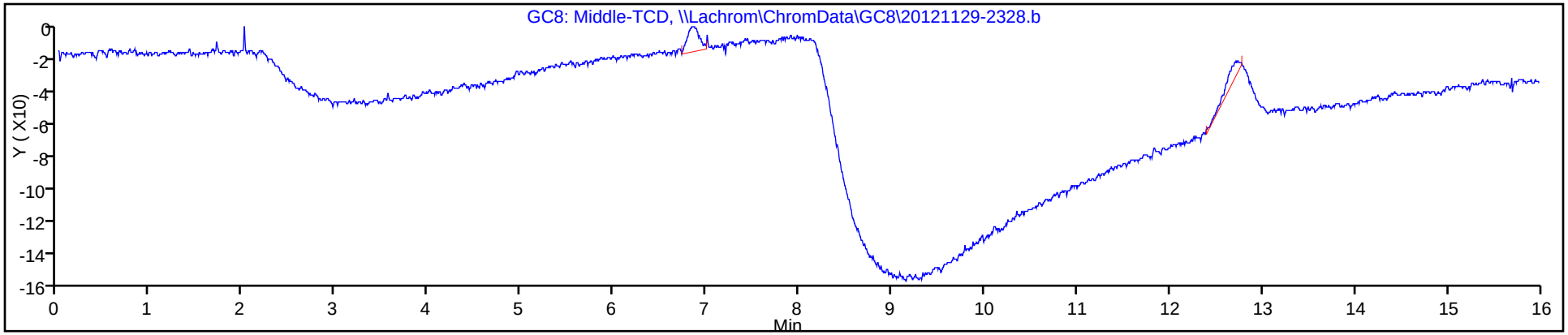
Data File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-010 11-29-2012 1;51;38 pm-1.d

Injection Date:	29-Nov-2012 13:51:38	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3380	Lims Sample ID:	10
Operator ID:	EI	Injection Vol:	1.0 ul
Column Type:		Column Dia:	

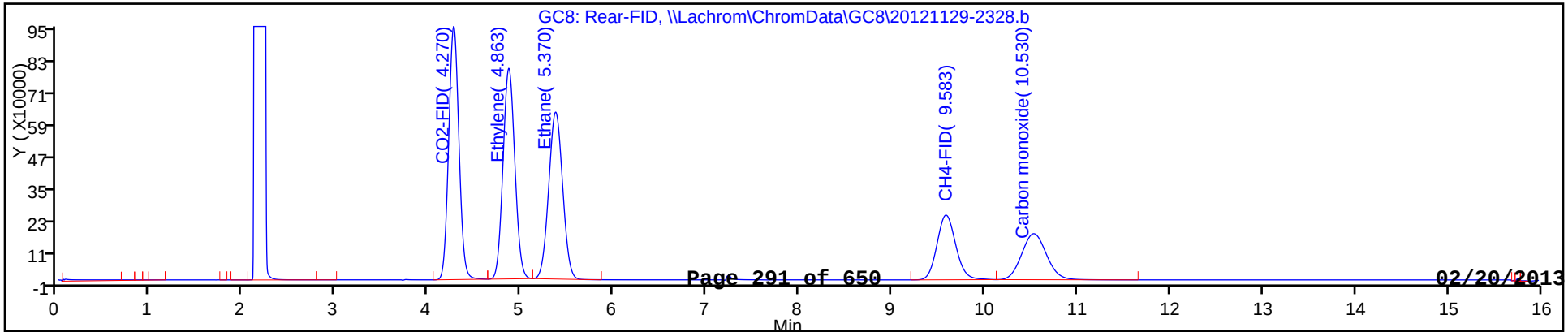
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/1 Calibration Date: 01/28/2013 10:22

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002661-001 1-28-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (TCD)	Lin2		5.230		46500	49900	-6.7	20.0
Methane (TCD)	Lin2		3.561		49700	49500	0.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/1 Calibration Date: 01/28/2013 10:22

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002661-001 1-28-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (TCD)	4.08	3.78	4.38
Methane (TCD)	9.40	8.70	10.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-001 1-28-2013 10;22;30 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 10:22:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-001		
Misc. Info.:	24889; GCFGTCDCCVDIL_0004; 5% CO2; 5% CH4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	1
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:22	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

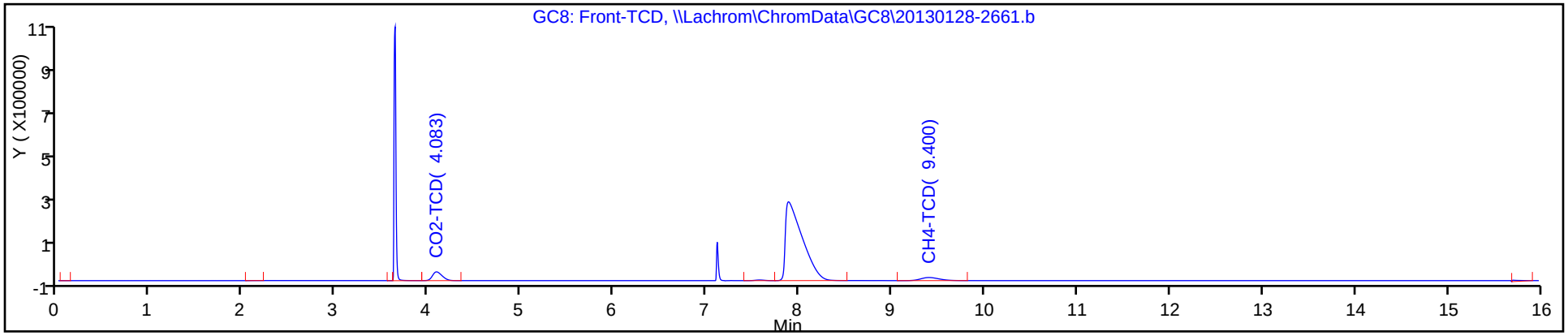
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.083	4.083	0.000	260980	46537	
12 CH4-TCD						
1	9.400	9.400	0.000	176272	49668	

Report Date: 29-Jan-2013 11:19:22 Chrom Revision: 2.0 22-Oct-2012 16:30:48

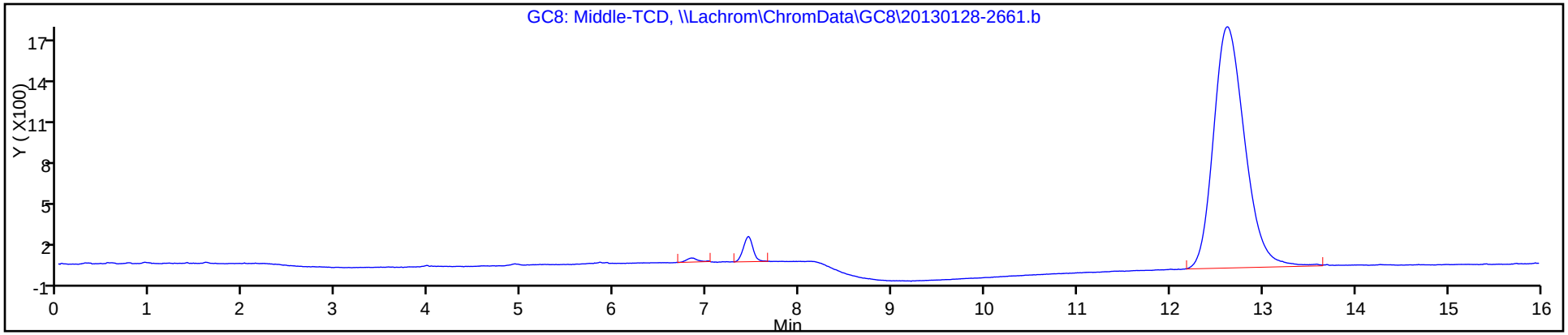
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-001 1-28-2013 10;22;30 am -1.d		
Injection Date:	28-Jan-2013 10:22:30	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	1
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

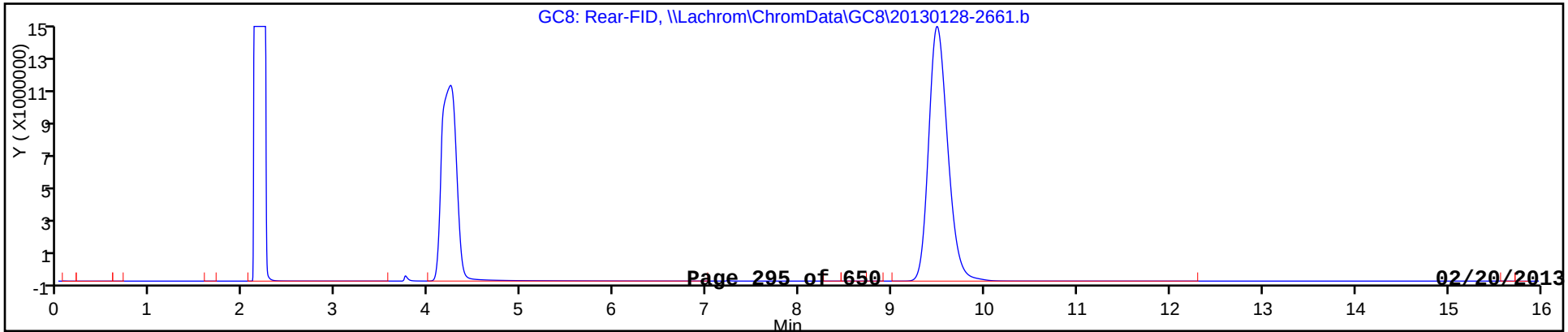
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/2 Calibration Date: 01/28/2013 10:42

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002661-002 1-28-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Oxygen	Lin1		4.326		201000	199000	1.1	20.0
Nitrogen	Lin1		4.512		802000	800000	0.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/2 Calibration Date: 01/28/2013 10:42

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002661-002 1-28-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Oxygen	7.54	7.24	7.84
Nitrogen	7.90	7.60	8.20

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-002 1-28-2013 10;42;34 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 10:42:34	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-002		
Misc. Info.:	23205 GCFGO2N2CCV2_00002; 20% O2; 80% N2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	2
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:24	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

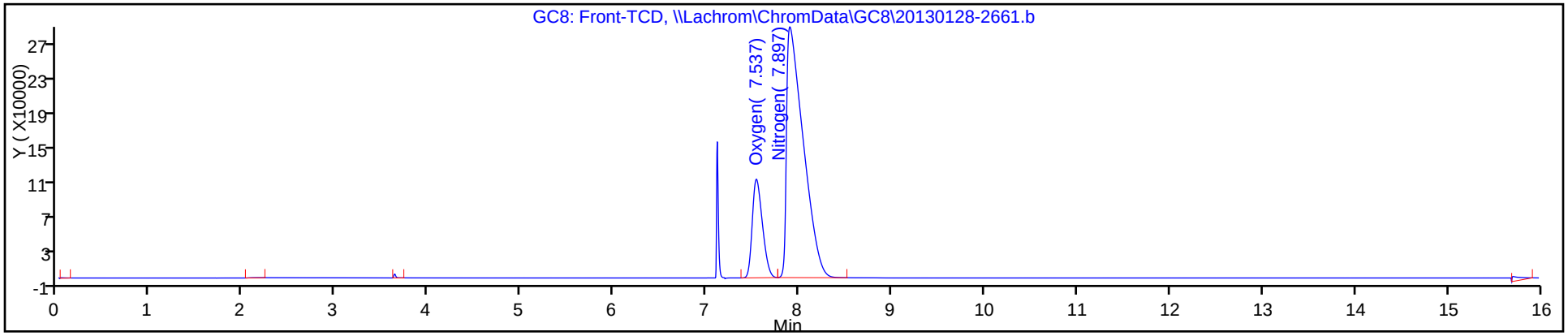
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.537	7.537	0.000	861667	201385	
9 Nitrogen						
1	7.897	7.897	0.000	3609437	802050	

Report Date: 29-Jan-2013 11:19:24 Chrom Revision: 2.0 22-Oct-2012 16:30:48

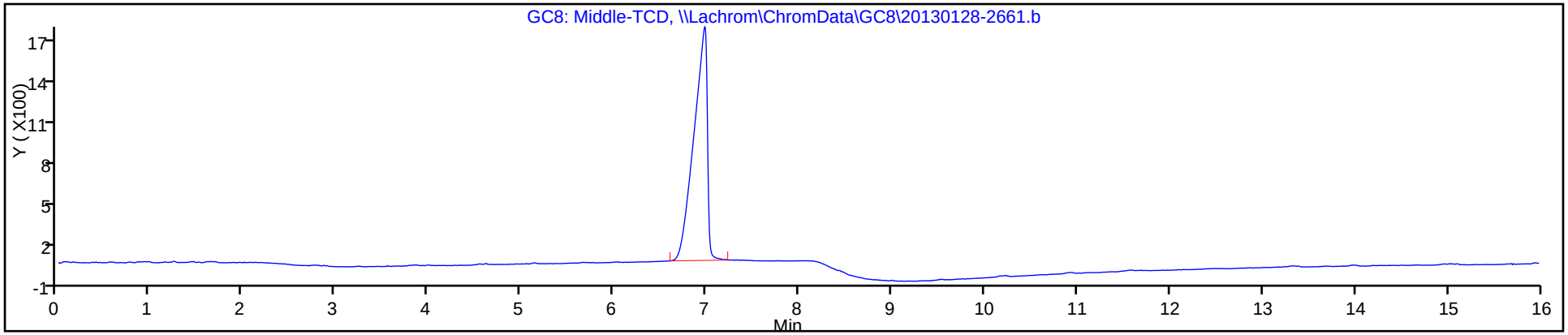
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-002 1-28-2013 10;42;34 am -1.d		
Injection Date:	28-Jan-2013 10:42:34	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	2
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

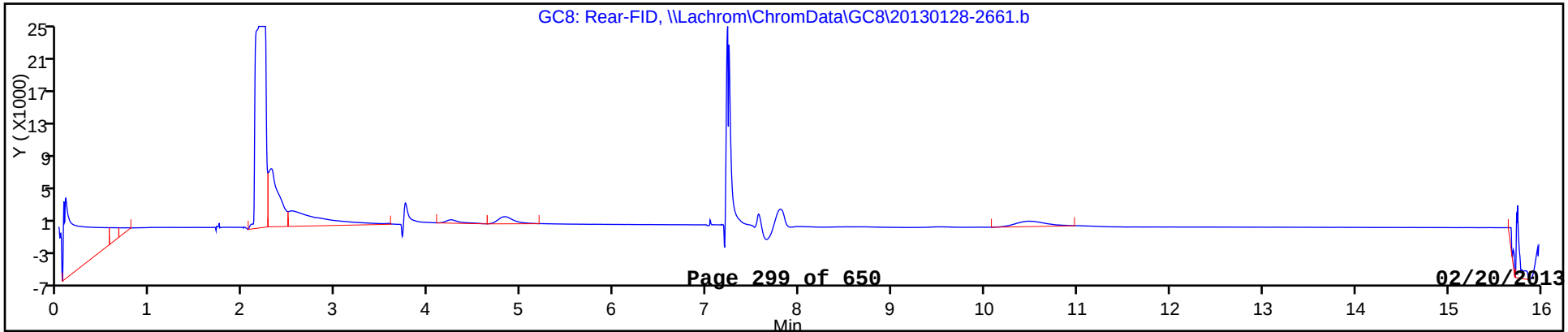
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002661-003 1-28-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetylene	Lin1		6846		21.5	20.0	7.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002661-003 1-28-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Acetylene	6.10	5.82	6.42

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 11:08:45	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

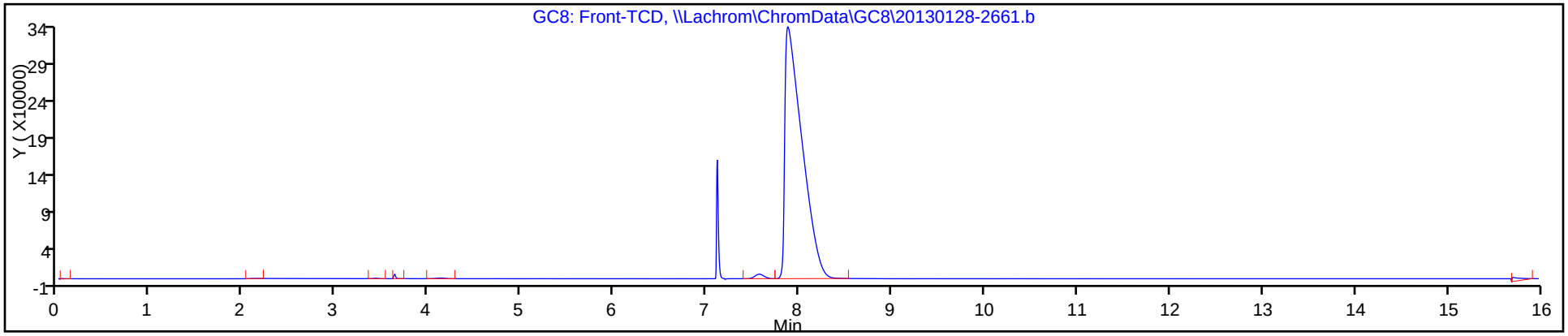
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4536001	1178.1	
5 Ethylene						
3	4.823	4.827	-0.004	854190	115.4	
8 Helium						
2	4.987	4.987	0.000	42631	24515	
1 Hydrogen						
2	5.313	5.217	0.096	66154	24029	
4 Ethane						
3	5.317	5.327	-0.010	806418	118.0	
3 Acetylene						
3	6.097	6.117	-0.020	136928	21.5	
11 CH4-FID						
3	9.520	9.527	-0.007	423770	111.8	
7 Carbon monoxide						
3	10.450	10.477	-0.027	415629	107.9	

Report Date: 29-Jan-2013 11:19:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

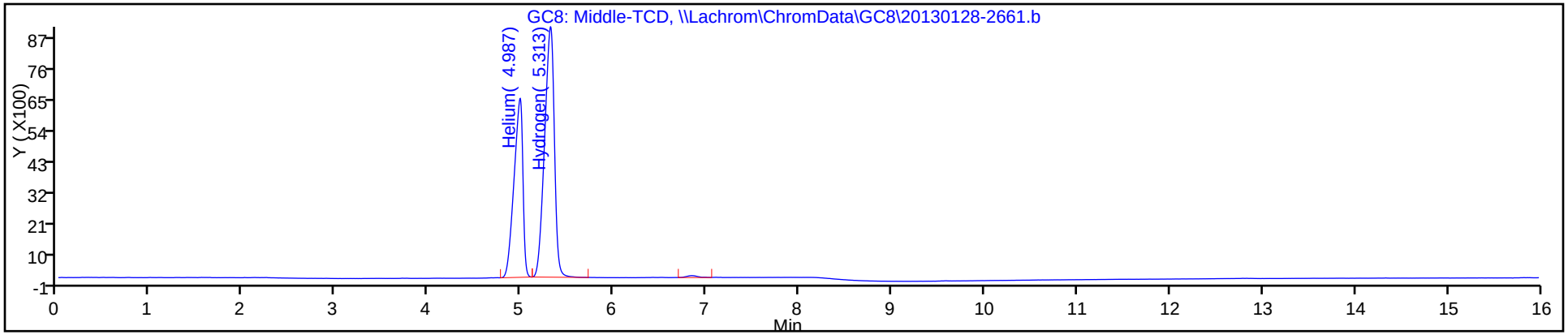
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Injection Date:	28-Jan-2013 11:08:45	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

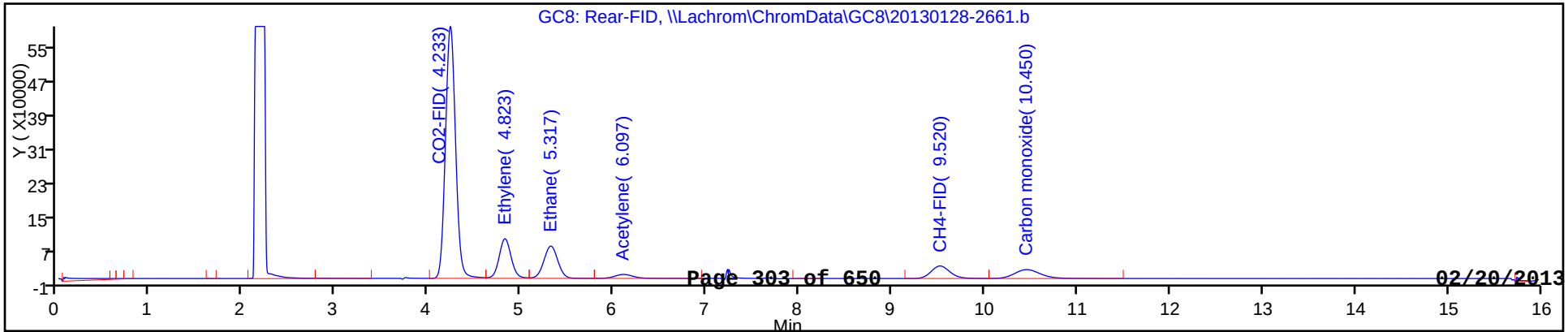
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002661-003 1-28-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (FID)	Lin1		3636		1180	1250	-5.6	20.0
Ethene	Lin1		6868		115	124	-7.2	20.0
Ethane	Lin1		6458		118	125	-5.5	20.0
Methane (FID)	Lin1		3424		112	124	-9.6	20.0
Carbon monoxide	Lin1		3686		108	113	-4.3	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002661-003 1-28-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (FID)	4.23	3.94	4.54
Ethene	4.82	4.53	5.13
Ethane	5.32	5.03	5.63
Methane (FID)	9.52	9.23	9.83
Carbon monoxide	10.45	10.18	10.78

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 11:08:45	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

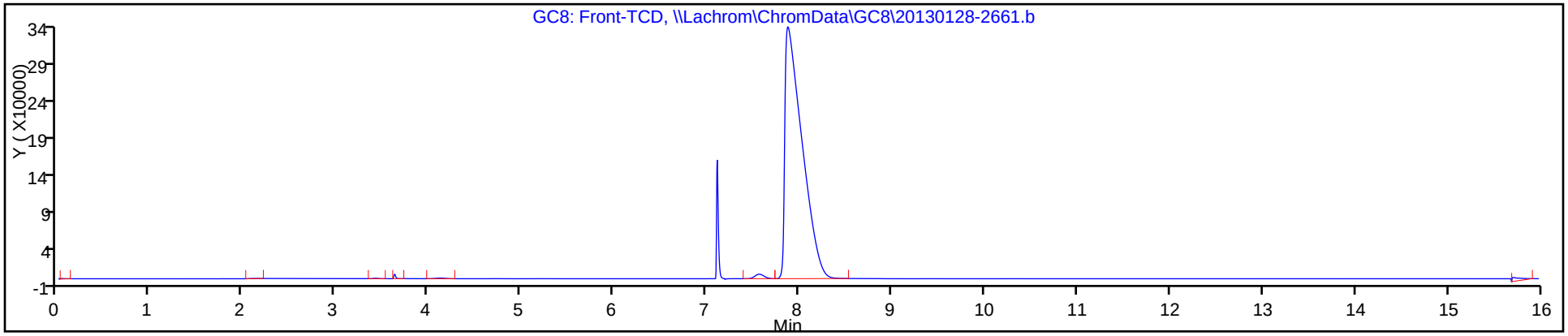
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4536001	1178.1	
5 Ethylene						
3	4.823	4.827	-0.004	854190	115.4	
8 Helium						
2	4.987	4.987	0.000	42631	24515	
1 Hydrogen						
2	5.313	5.217	0.096	66154	24029	
4 Ethane						
3	5.317	5.327	-0.010	806418	118.0	
3 Acetylene						
3	6.097	6.117	-0.020	136928	21.5	
11 CH4-FID						
3	9.520	9.527	-0.007	423770	111.8	
7 Carbon monoxide						
3	10.450	10.477	-0.027	415629	107.9	

Report Date: 29-Jan-2013 11:19:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

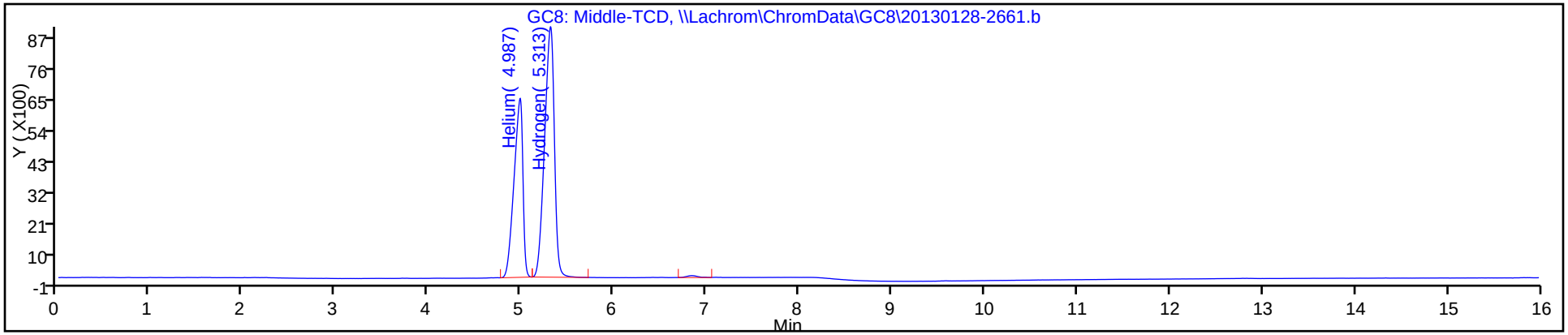
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Injection Date:	28-Jan-2013 11:08:45	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

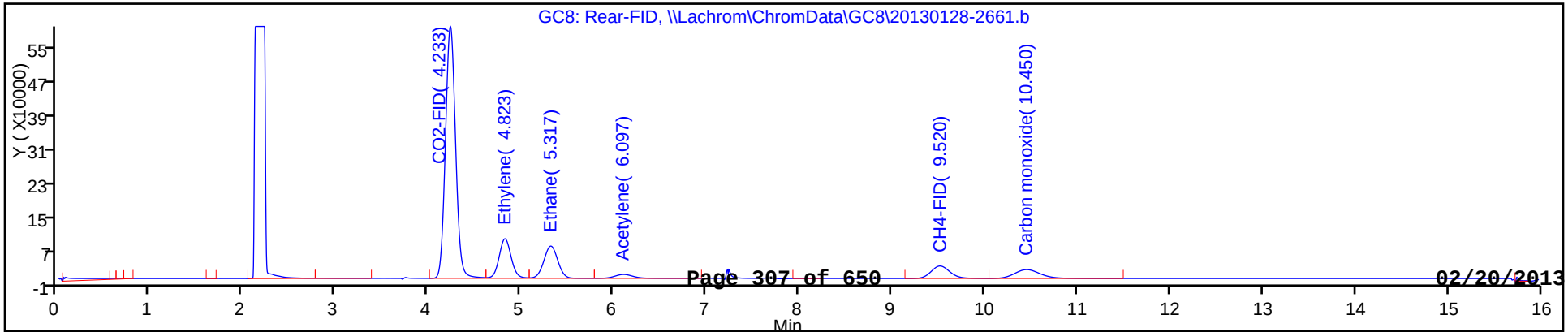
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002661-003 1-28-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Helium	Lin2		1.705		24500	25000	-1.9	20.0
Hydrogen	Lin2		2.646		24000	25000	-3.9	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/3 Calibration Date: 01/28/2013 11:08

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002661-003 1-28-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Helium	4.99	4.69	5.29
Hydrogen	5.31	4.92	5.52

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 11:08:45	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

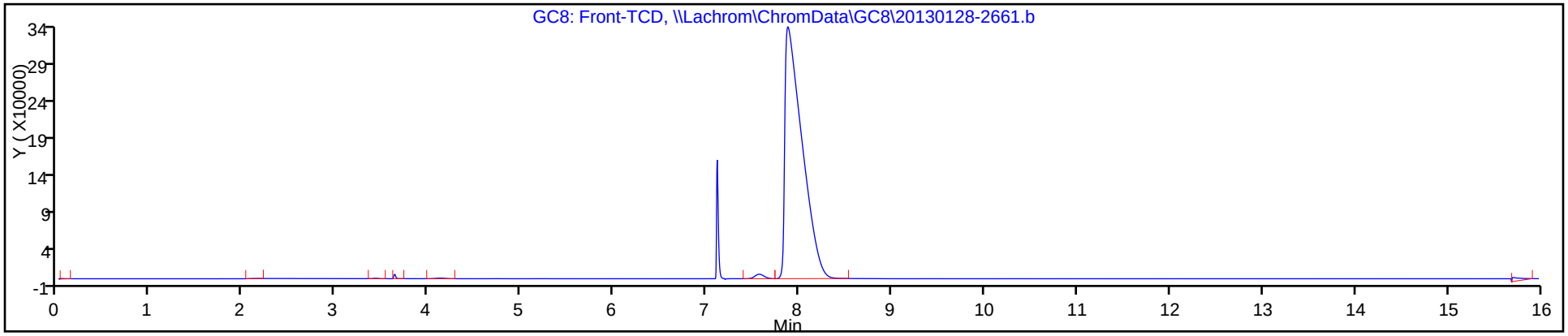
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4536001	1178.1	
5 Ethylene						
3	4.823	4.827	-0.004	854190	115.4	
8 Helium						
2	4.987	4.987	0.000	42631	24515	
1 Hydrogen						
2	5.313	5.217	0.096	66154	24029	
4 Ethane						
3	5.317	5.327	-0.010	806418	118.0	
3 Acetylene						
3	6.097	6.117	-0.020	136928	21.5	
11 CH4-FID						
3	9.520	9.527	-0.007	423770	111.8	
7 Carbon monoxide						
3	10.450	10.477	-0.027	415629	107.9	

Report Date: 29-Jan-2013 11:19:25 Chrom Revision: 2.0 22-Oct-2012 16:30:48

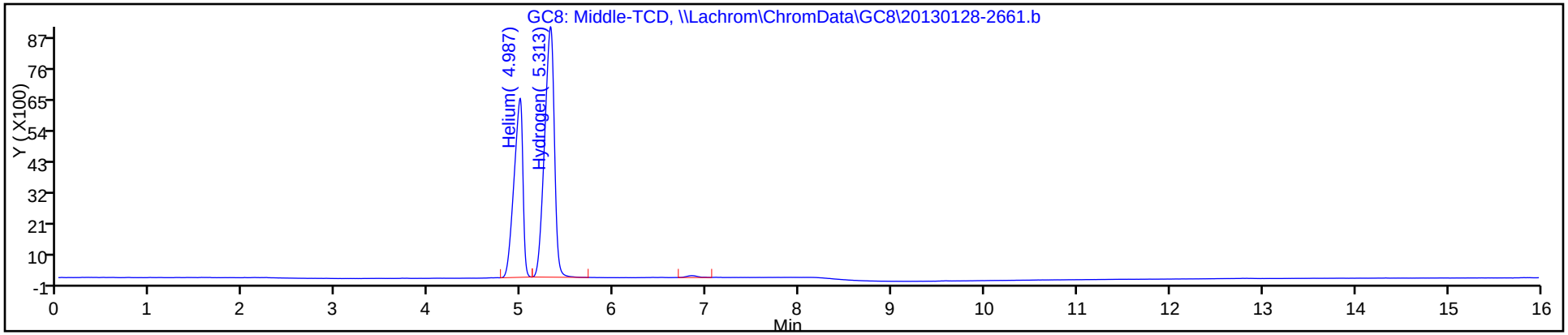
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-003 1-28-2013 11;08;45 am -1.d		
Injection Date:	28-Jan-2013 11:08:45	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

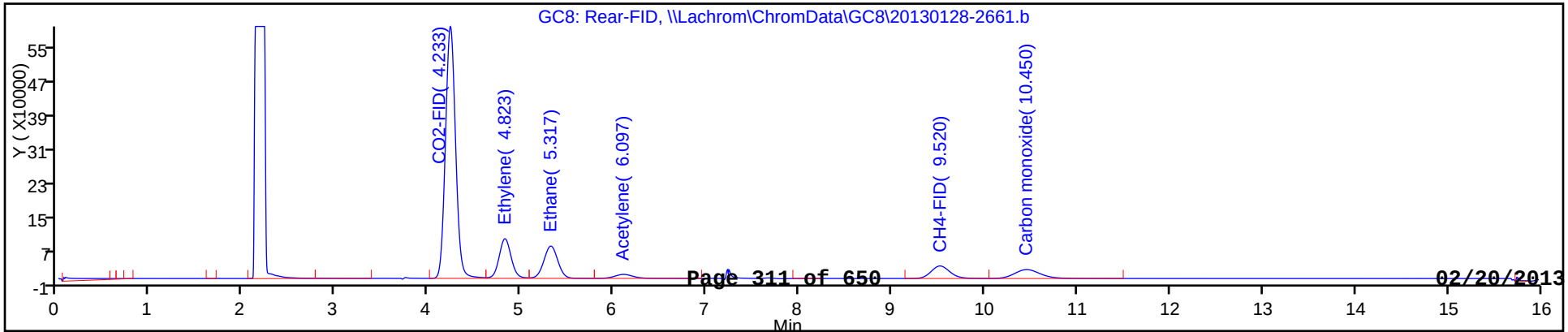
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/21 Calibration Date: 01/28/2013 17:27

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002661-021 1-28-2013 5;27;30 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (TCD)	Lin2		5.125		45600	49900	-8.6	20.0
Methane (TCD)	Lin2		3.541		49400	49500	-0.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/21 Calibration Date: 01/28/2013 17:27

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002661-021 1-28-2013 5;27;30 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (TCD)	4.09	3.78	4.38
Methane (TCD)	9.40	8.70	10.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-021 1-28-2013 5;27;30 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 17:27:30	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-021		
Misc. Info.:	24889; GCFGTCDCCVDIL_0004; 5% CO2; 5% CH4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	21
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:42	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

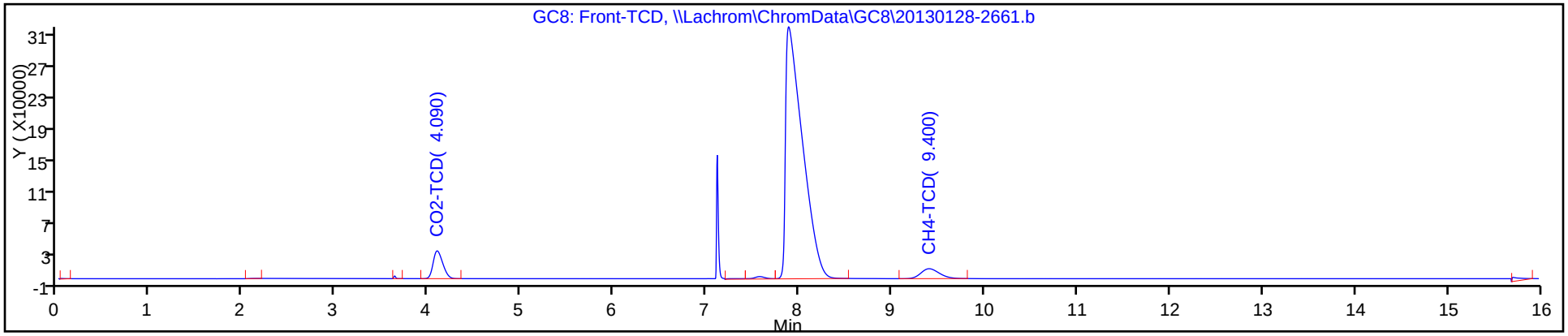
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.090	4.083	0.007	255755	45626	
12 CH4-TCD						
1	9.400	9.400	0.000	175299	49400	

Report Date: 29-Jan-2013 11:19:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

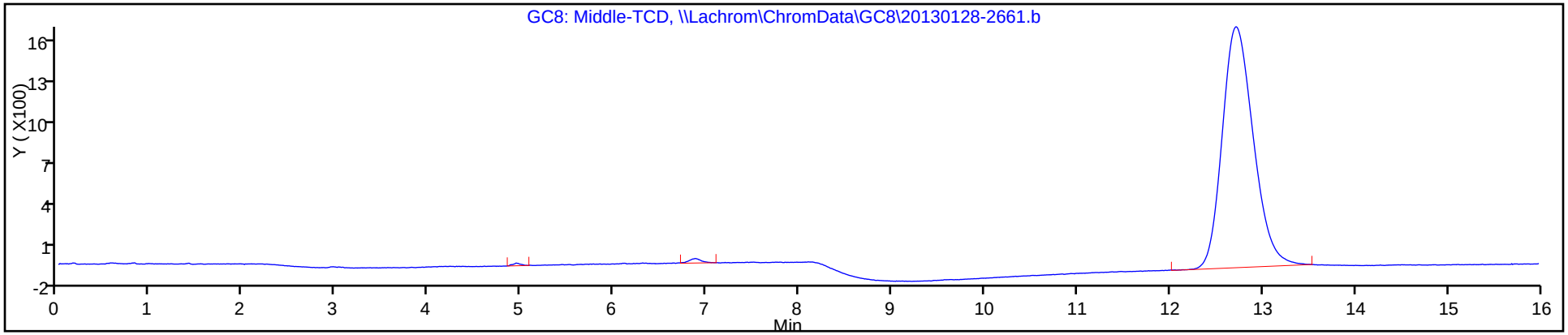
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-021 1-28-2013 5;27;30 pm -1.d		
Injection Date:	28-Jan-2013 17:27:30	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	21
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

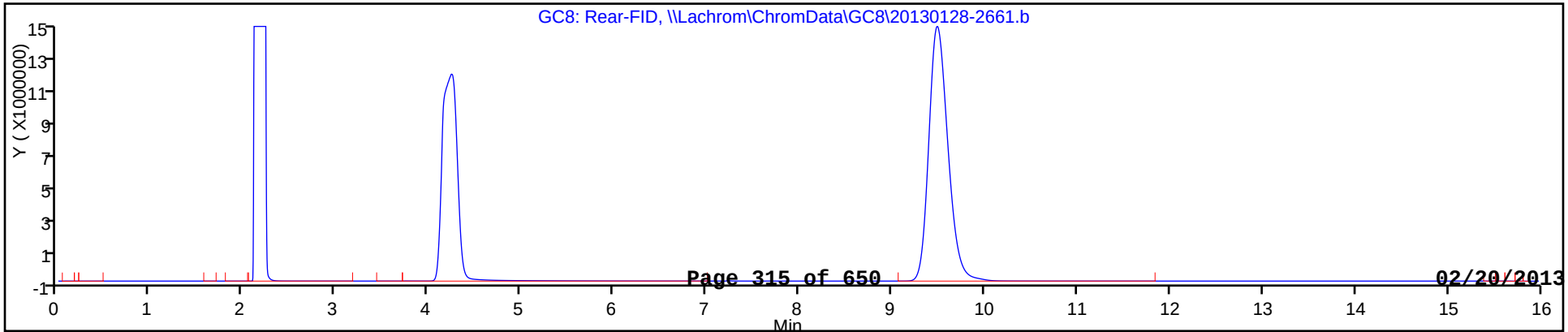
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/22 Calibration Date: 01/28/2013 17:46

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002661-022 1-28-2013 5;46;12 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Oxygen	Lin1		4.336		202000	199000	1.3	20.0
Nitrogen	Lin1		4.521		804000	800000	0.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/22 Calibration Date: 01/28/2013 17:46

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002661-022 1-28-2013 5;46;12 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Oxygen	7.54	7.24	7.84
Nitrogen	7.90	7.60	8.20

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-022 1-28-2013 5;46;12 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 17:46:12	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-022		
Misc. Info.:	23205 GCFGO2N2CCV2_00002; 20% O2; 80% N2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	22
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:43	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

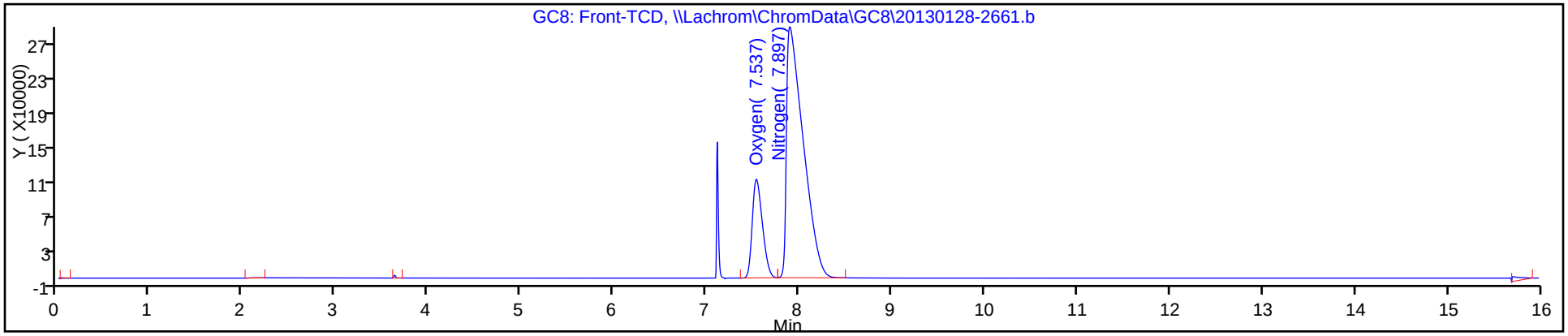
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.537	7.537	0.000	863771	201878	
9 Nitrogen						
1	7.897	7.897	0.000	3616485	803626	

Report Date: 29-Jan-2013 11:19:43 Chrom Revision: 2.0 22-Oct-2012 16:30:48

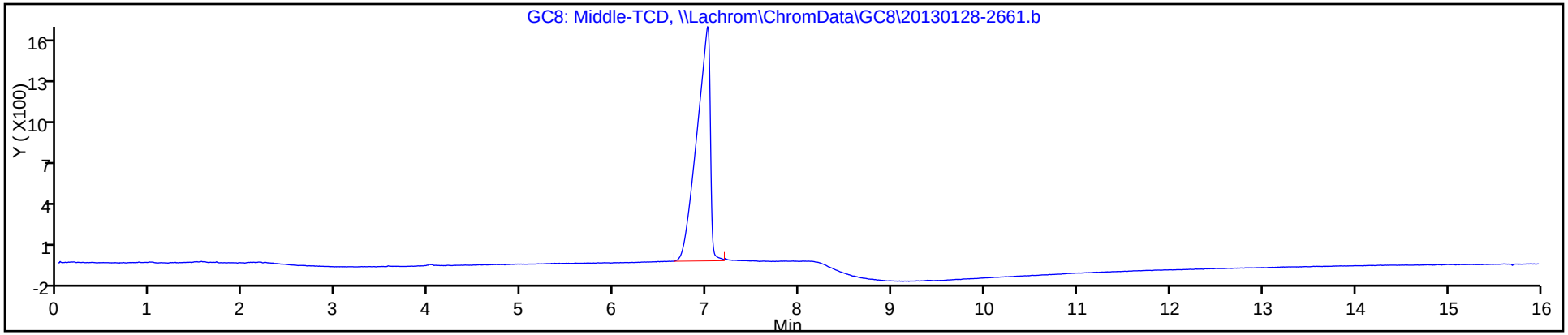
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-022 1-28-2013 5;46;12 pm -1.d		
Injection Date:	28-Jan-2013 17:46:12	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	22
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

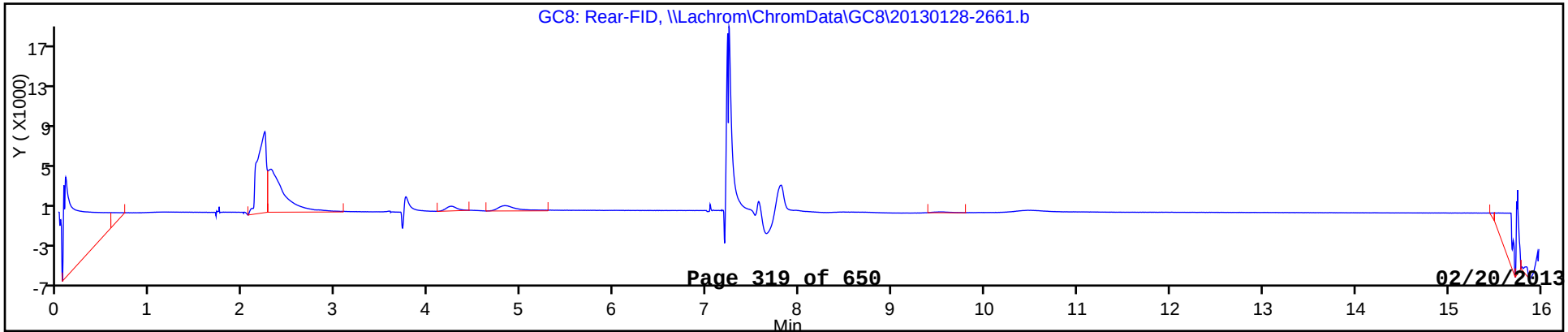
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetylene	Lin1		7190		22.6	20.0	13.0	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Acetylene	6.10	5.82	6.42

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 18:04:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-023		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	23
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:44	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

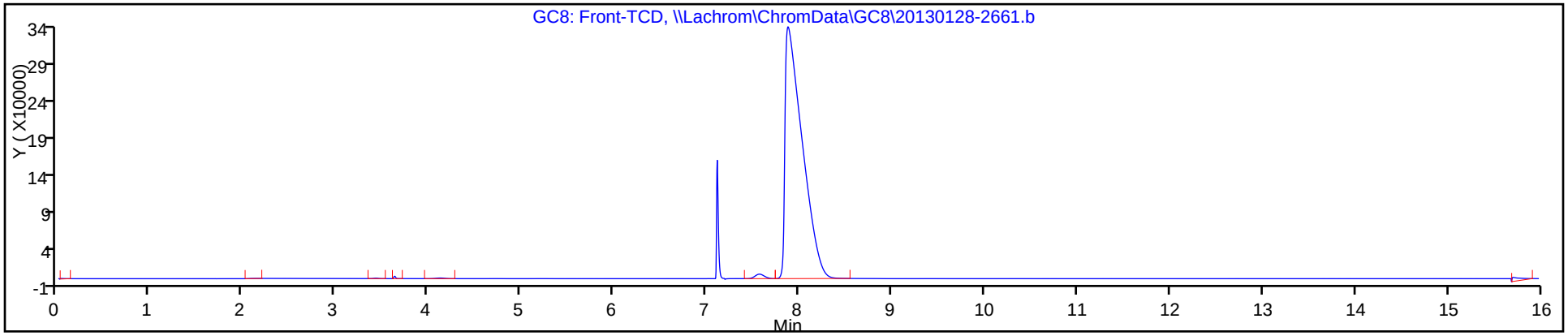
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4585151	1190.7	
5 Ethylene						
3	4.820	4.827	-0.007	866715	117.1	
8 Helium						
2	5.000	4.987	0.013	42857	24645	
1 Hydrogen						
2	5.330	5.217	0.113	66705	24229	
4 Ethane						
3	5.313	5.327	-0.014	832469	121.8	
3 Acetylene						
3	6.100	6.117	-0.017	143807	22.6	
11 CH4-FID						
3	9.520	9.527	-0.007	439802	116.0	
7 Carbon monoxide						
3	10.453	10.477	-0.024	430658	111.7	

Report Date: 29-Jan-2013 11:19:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

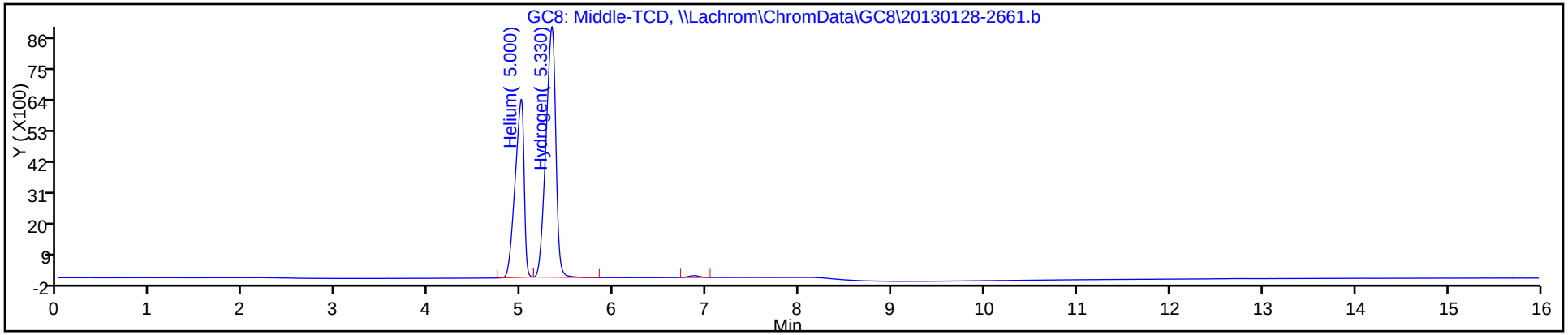
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Injection Date:	28-Jan-2013 18:04:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	23
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

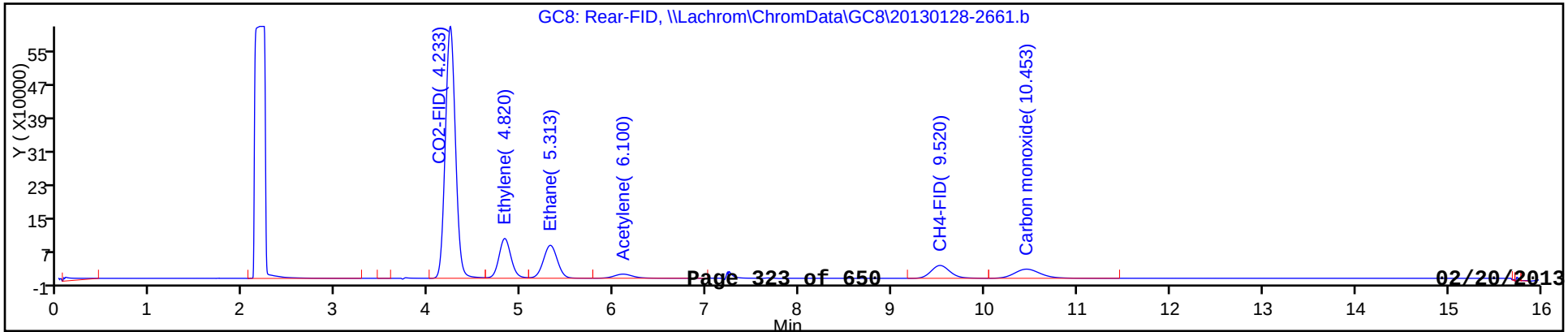
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (FID)	Lin1		3675		1190	1250	-4.6	20.0
Ethene	Lin1		6969		117	124	-5.8	20.0
Ethane	Lin1		6666		122	125	-2.5	20.0
Methane (FID)	Lin1		3554		116	124	-6.2	20.0
Carbon monoxide	Lin1		3820		112	113	-1.0	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (FID)	4.23	3.94	4.54
Ethene	4.82	4.53	5.13
Ethane	5.31	5.03	5.63
Methane (FID)	9.52	9.23	9.83
Carbon monoxide	10.45	10.18	10.78

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 18:04:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-023		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	23
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:44	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

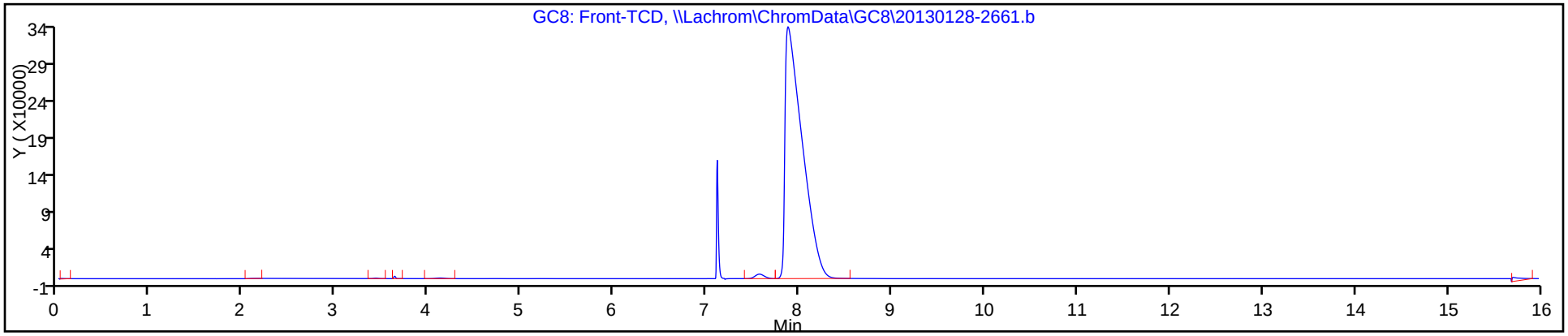
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4585151	1190.7	
5 Ethylene						
3	4.820	4.827	-0.007	866715	117.1	
8 Helium						
2	5.000	4.987	0.013	42857	24645	
1 Hydrogen						
2	5.330	5.217	0.113	66705	24229	
4 Ethane						
3	5.313	5.327	-0.014	832469	121.8	
3 Acetylene						
3	6.100	6.117	-0.017	143807	22.6	
11 CH4-FID						
3	9.520	9.527	-0.007	439802	116.0	
7 Carbon monoxide						
3	10.453	10.477	-0.024	430658	111.7	

Report Date: 29-Jan-2013 11:19:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

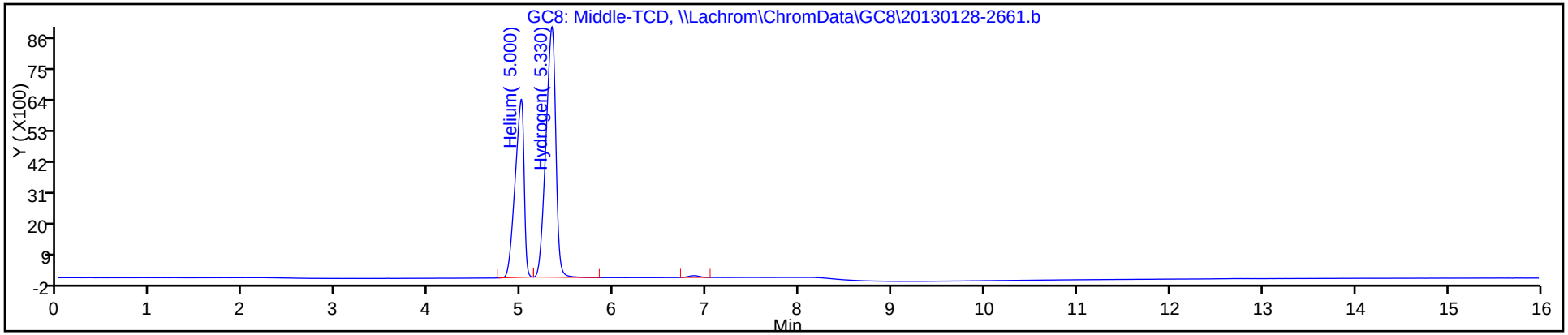
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Injection Date:	28-Jan-2013 18:04:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	23
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

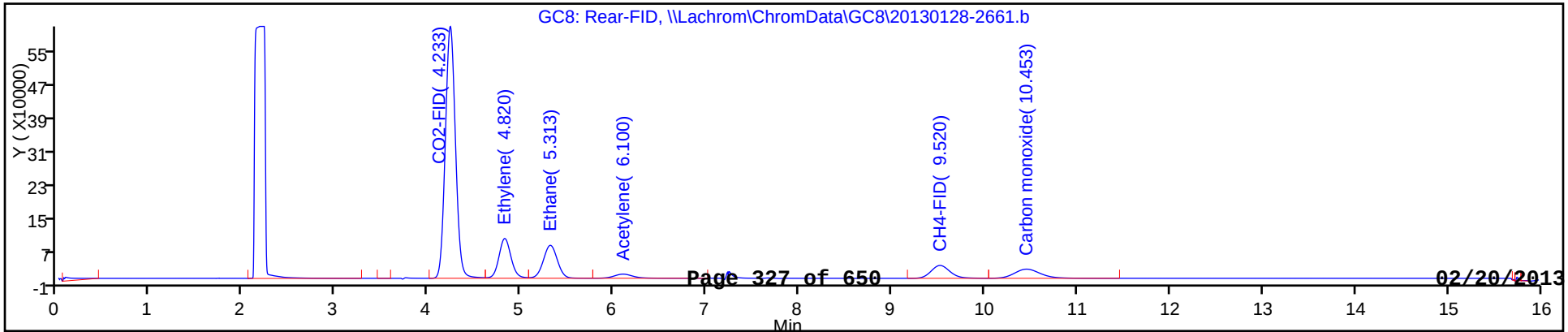
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Helium	Lin2		1.714		24600	25000	-1.4	20.0
Hydrogen	Lin2		2.668		24200	25000	-3.1	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3877/23 Calibration Date: 01/28/2013 18:04

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002661-023 1-28-2013 6;04;36 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Helium	5.00	4.69	5.29
Hydrogen	5.33	4.92	5.52

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	28-Jan-2013 18:04:36	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002661-023		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	23
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:44	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

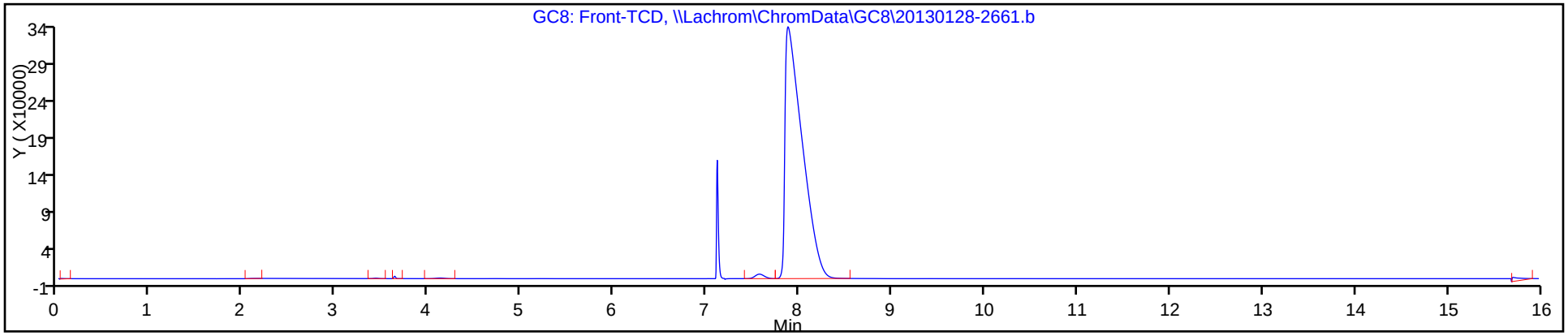
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.233	4.237	-0.004	4585151	1190.7	
5 Ethylene						
3	4.820	4.827	-0.007	866715	117.1	
8 Helium						
2	5.000	4.987	0.013	42857	24645	
1 Hydrogen						
2	5.330	5.217	0.113	66705	24229	
4 Ethane						
3	5.313	5.327	-0.014	832469	121.8	
3 Acetylene						
3	6.100	6.117	-0.017	143807	22.6	
11 CH4-FID						
3	9.520	9.527	-0.007	439802	116.0	
7 Carbon monoxide						
3	10.453	10.477	-0.024	430658	111.7	

Report Date: 29-Jan-2013 11:19:44 Chrom Revision: 2.0 22-Oct-2012 16:30:48

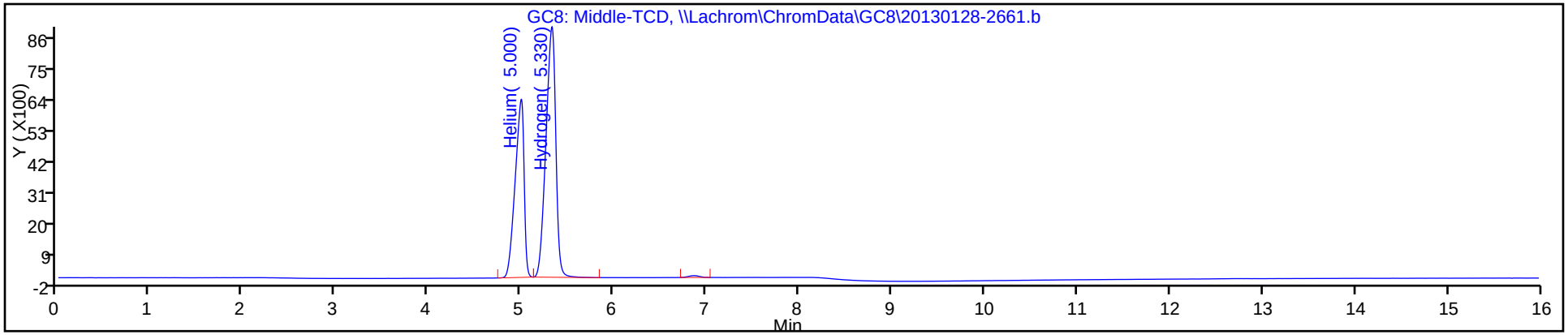
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-023 1-28-2013 6;04;36 pm -1.d		
Injection Date:	28-Jan-2013 18:04:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	23
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

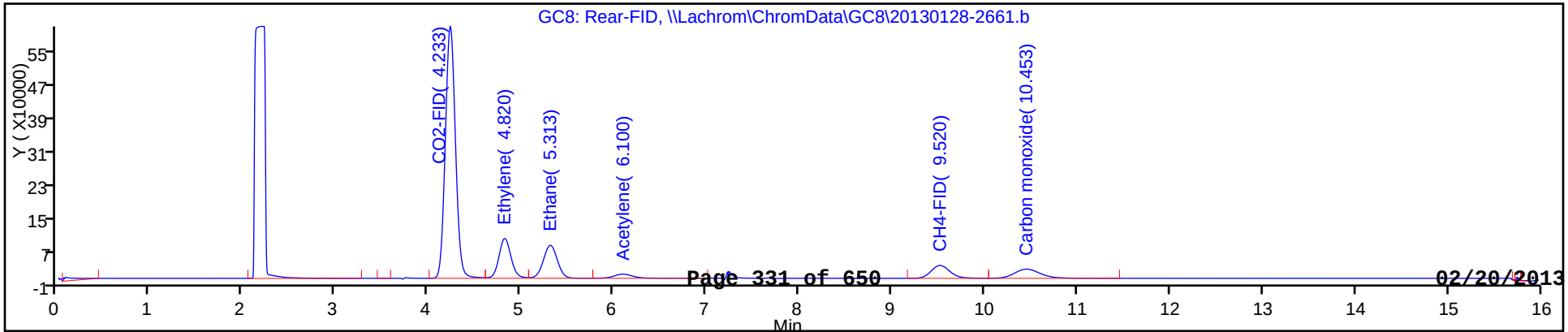
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/1 Calibration Date: 01/29/2013 10:18

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002667-001 1-29-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (TCD)	Lin2		5.254		46700	49900	-6.3	20.0
Methane (TCD)	Lin2		3.566		49700	49500	0.5	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/1 Calibration Date: 01/29/2013 10:18

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002667-001 1-29-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (TCD)	4.08	3.78	4.38
Methane (TCD)	9.40	8.70	10.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-001 1-29-2013 10;18;35 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 10:18:35	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-001		
Misc. Info.:	24889; GCFGTCDCCVDIL_0004; 5% CO2; 5% CH4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	1
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:33	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

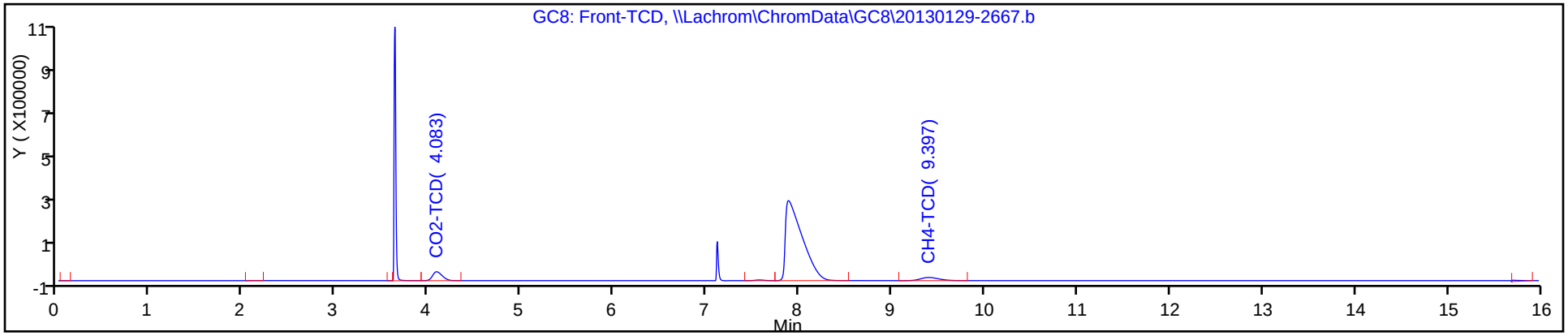
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.083	4.083	0.000	262197	46749	
12 CH4-TCD						
1	9.397	9.397	0.000	176493	49729	

Report Date: 30-Jan-2013 10:09:33 Chrom Revision: 2.0 22-Oct-2012 16:30:48

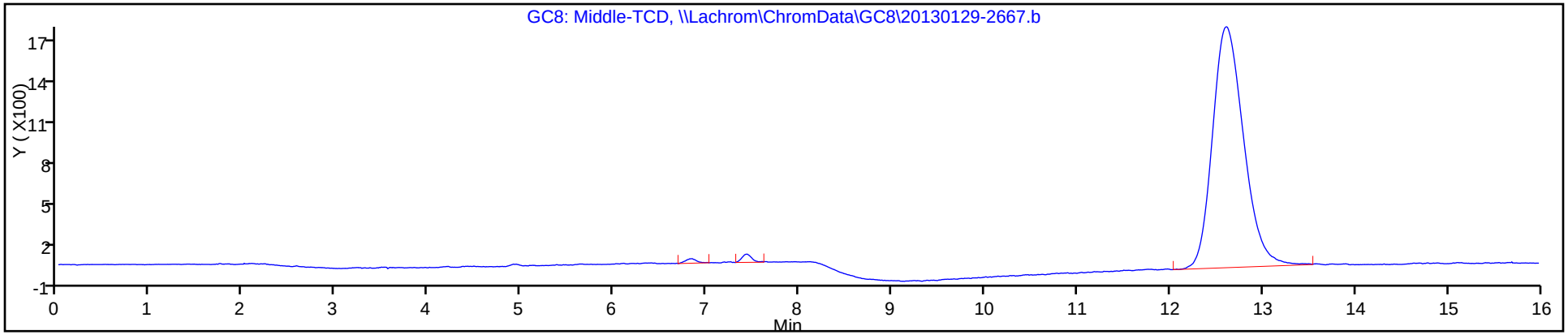
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-001 1-29-2013 10;18;35 am -1.d		
Injection Date:	29-Jan-2013 10:18:35	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	1
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

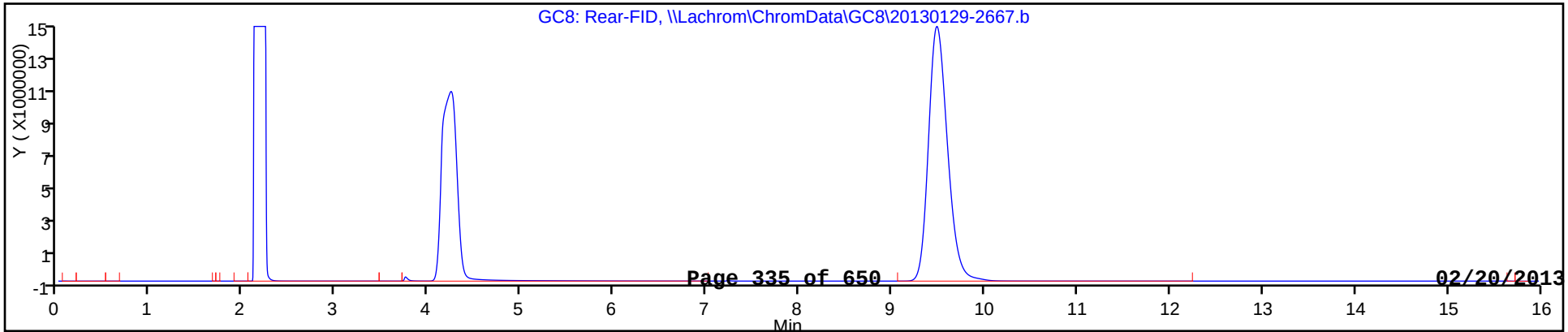
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/2 Calibration Date: 01/29/2013 10:38

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002667-002 1-29-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Oxygen	Lin1		4.344		202000	199000	1.5	20.0
Nitrogen	Lin1		4.528		805000	800000	0.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/2 Calibration Date: 01/29/2013 10:38

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002667-002 1-29-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Oxygen	7.53	7.23	7.83
Nitrogen	7.89	7.59	8.19

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-002 1-29-2013 10;38;35 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 10:38:35	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-002		
Misc. Info.:	23205 GCFGO2N2CCV2_00002; 20% O2; 80% N2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	2
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:34	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

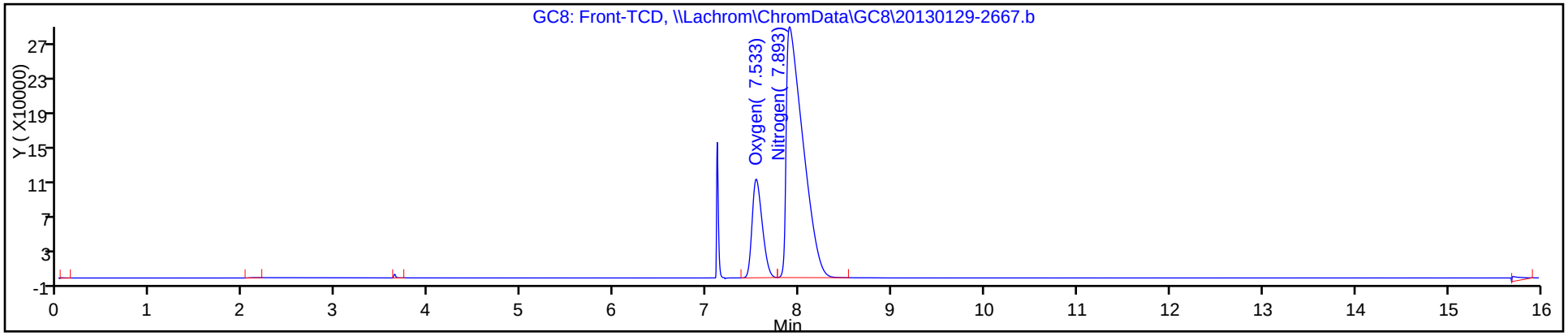
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.533	7.533	0.000	865294	202235	
9 Nitrogen						
1	7.893	7.893	0.000	3622008	804861	

Report Date: 30-Jan-2013 10:09:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

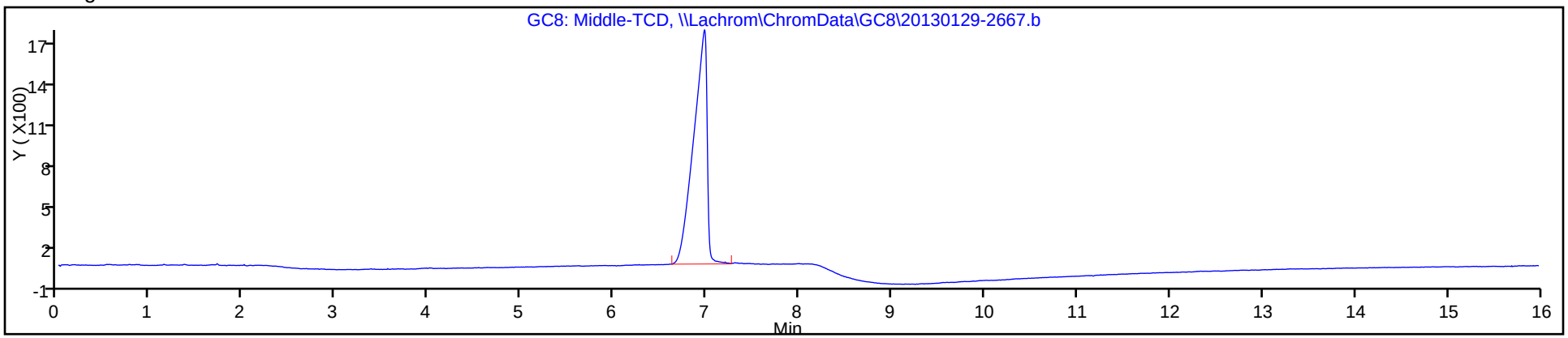
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-002 1-29-2013 10;38;35 am -1.d		
Injection Date:	29-Jan-2013 10:38:35	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	2
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

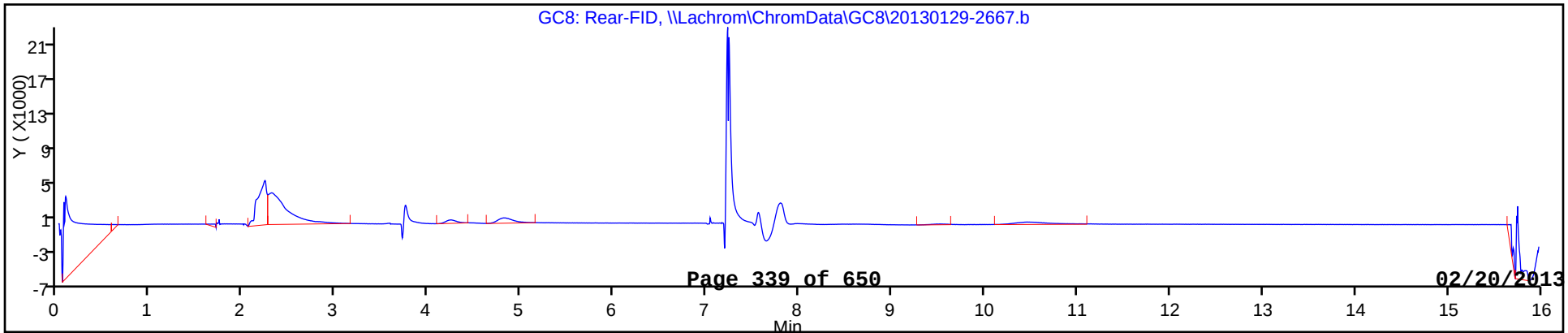
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002667-003 1-29-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetylene	Lin1		6814		21.4	20.0	7.1	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002667-003 1-29-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Acetylene	6.09	5.82	6.42

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 10:58:05	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

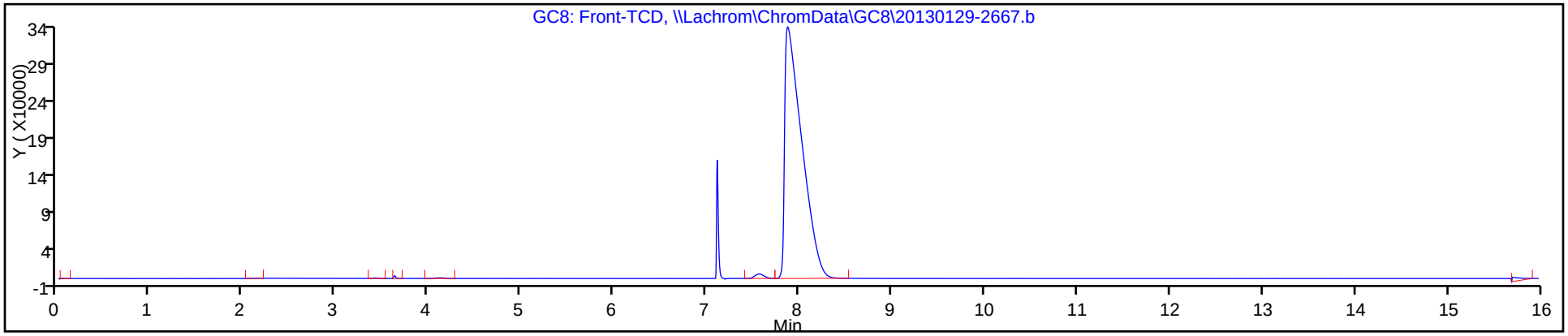
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.227	4.237	-0.010	4565692	1185.7	
5 Ethylene						
3	4.817	4.827	-0.010	858966	116.1	
8 Helium						
2	4.977	4.987	-0.010	42516	24449	
1 Hydrogen						
2	5.307	5.217	0.090	65918	23943	
4 Ethane						
3	5.307	5.327	-0.020	819181	119.9	
3 Acetylene						
3	6.093	6.117	-0.024	136279	21.4	
11 CH4-FID						
3	9.513	9.527	-0.014	433042	114.3	
7 Carbon monoxide						
3	10.447	10.477	-0.030	423280	109.8	

Report Date: 30-Jan-2013 10:09:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

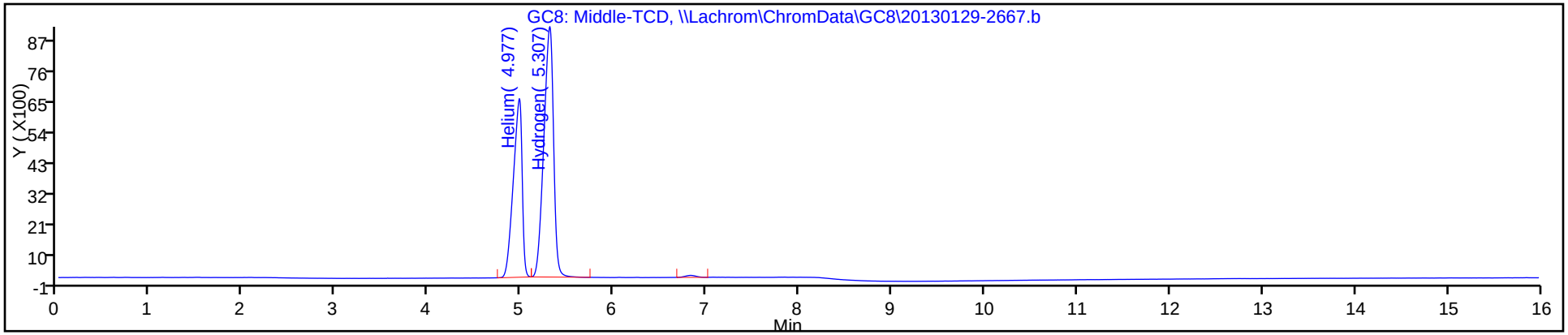
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Injection Date:	29-Jan-2013 10:58:05	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

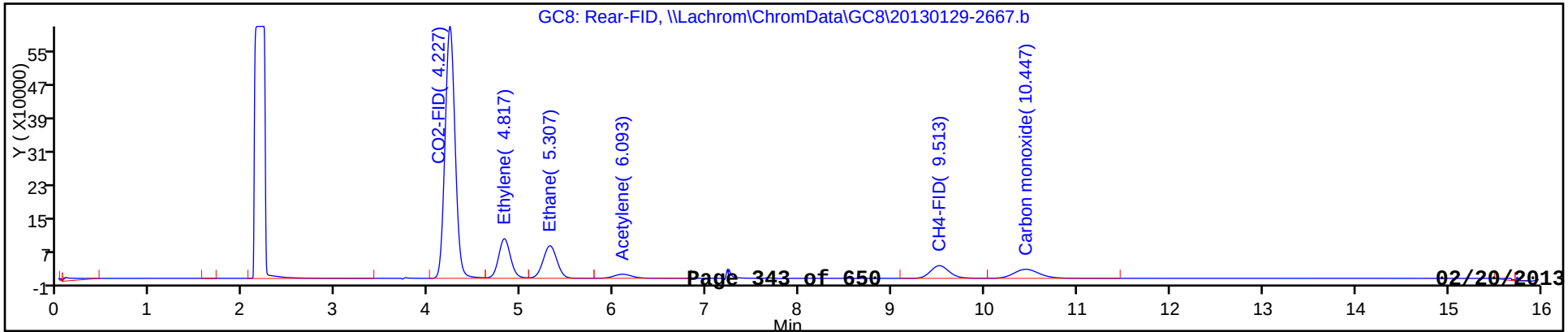
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002667-003 1-29-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (FID)	Lin1		3660		1190	1250	-5.0	20.0
Ethene	Lin1		6906		116	124	-6.7	20.0
Ethane	Lin1		6560		120	125	-4.0	20.0
Methane (FID)	Lin1		3499		114	124	-7.7	20.0
Carbon monoxide	Lin1		3754		110	113	-2.6	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002667-003 1-29-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (FID)	4.23	3.94	4.54
Ethene	4.82	4.53	5.13
Ethane	5.31	5.03	5.63
Methane (FID)	9.51	9.23	9.83
Carbon monoxide	10.45	10.18	10.78

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 10:58:05	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

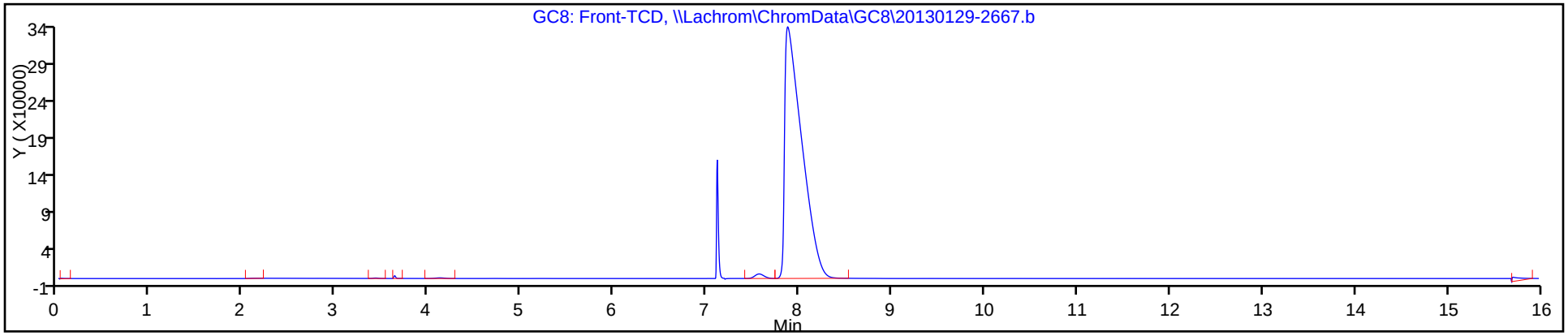
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.227	4.237	-0.010	4565692	1185.7	
5 Ethylene						
3	4.817	4.827	-0.010	858966	116.1	
8 Helium						
2	4.977	4.987	-0.010	42516	24449	
1 Hydrogen						
2	5.307	5.217	0.090	65918	23943	
4 Ethane						
3	5.307	5.327	-0.020	819181	119.9	
3 Acetylene						
3	6.093	6.117	-0.024	136279	21.4	
11 CH4-FID						
3	9.513	9.527	-0.014	433042	114.3	
7 Carbon monoxide						
3	10.447	10.477	-0.030	423280	109.8	

Report Date: 30-Jan-2013 10:09:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

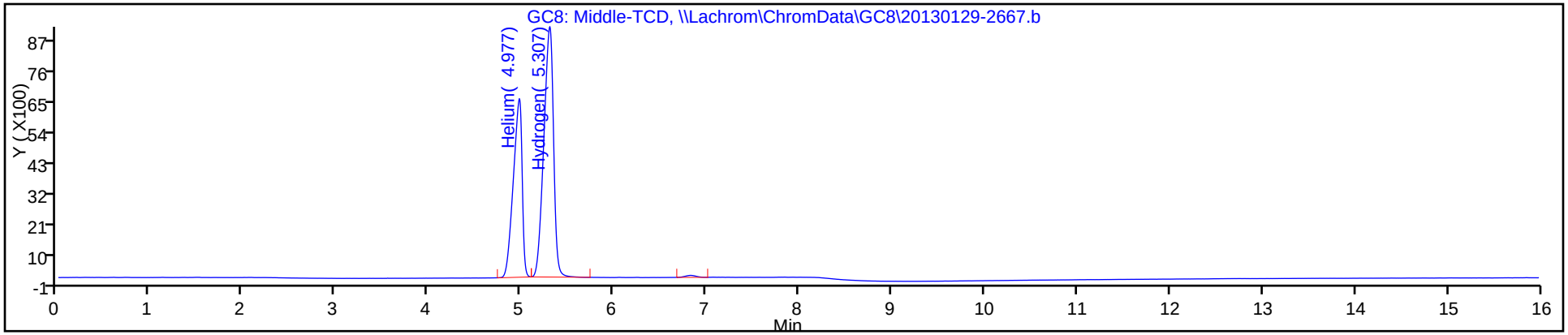
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Injection Date:	29-Jan-2013 10:58:05	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

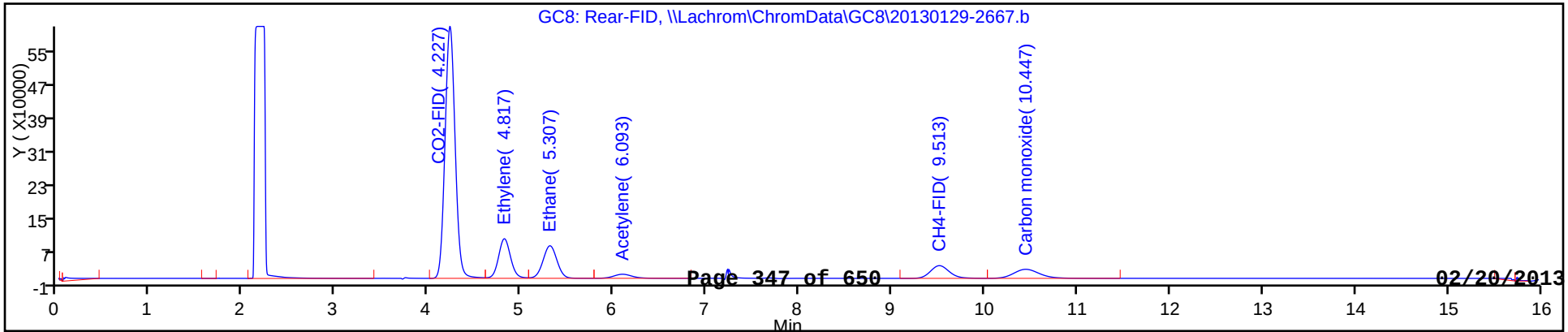
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002667-003 1-29-2013 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Helium	Lin2		1.701		24400	25000	-2.2	20.0
Hydrogen	Lin2		2.637		23900	25000	-4.2	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/3 Calibration Date: 01/29/2013 10:58

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002667-003 1-29-2013 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Helium	4.98	4.69	5.29
Hydrogen	5.31	4.92	5.52

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 10:58:05	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-003		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	3
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

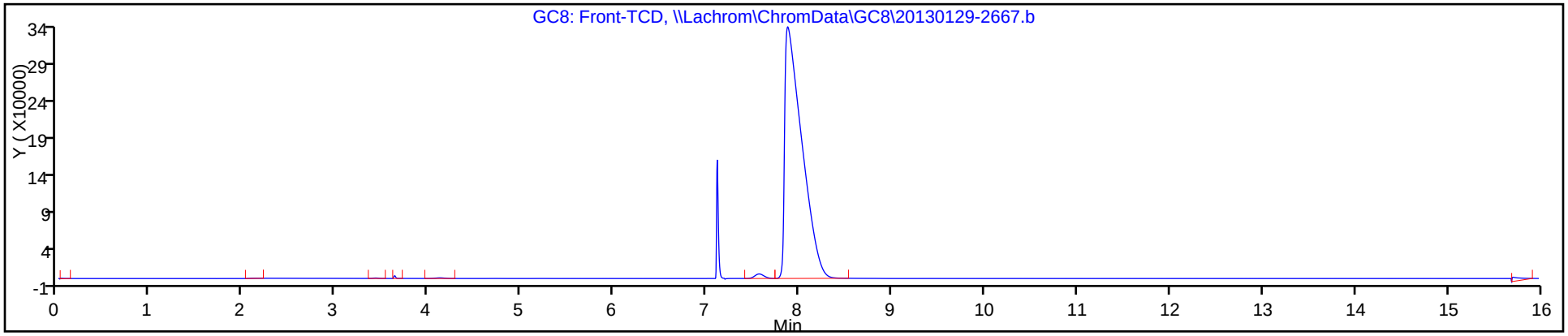
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.227	4.237	-0.010	4565692	1185.7	
5 Ethylene						
3	4.817	4.827	-0.010	858966	116.1	
8 Helium						
2	4.977	4.987	-0.010	42516	24449	
1 Hydrogen						
2	5.307	5.217	0.090	65918	23943	
4 Ethane						
3	5.307	5.327	-0.020	819181	119.9	
3 Acetylene						
3	6.093	6.117	-0.024	136279	21.4	
11 CH4-FID						
3	9.513	9.527	-0.014	433042	114.3	
7 Carbon monoxide						
3	10.447	10.477	-0.030	423280	109.8	

Report Date: 30-Jan-2013 10:09:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

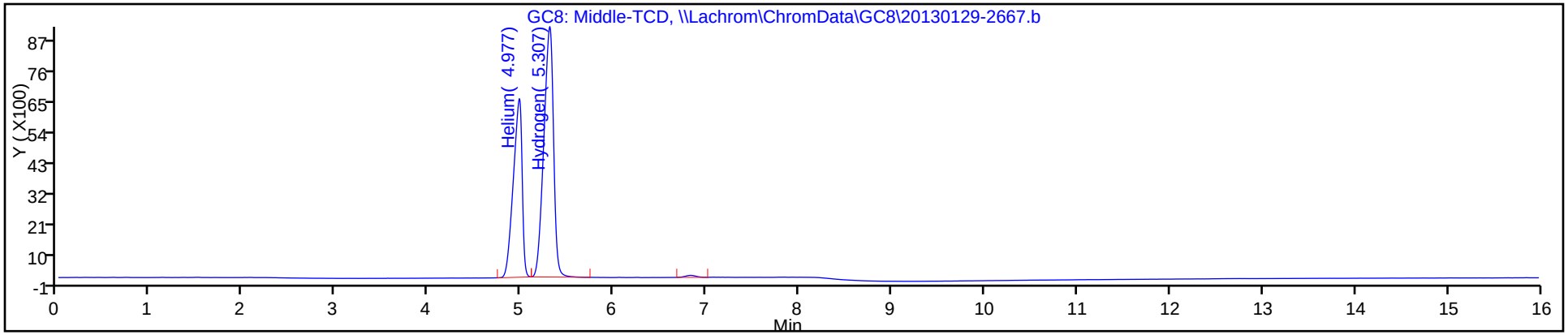
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-003 1-29-2013 10;58;05 am -1.d		
Injection Date:	29-Jan-2013 10:58:05	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	3
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

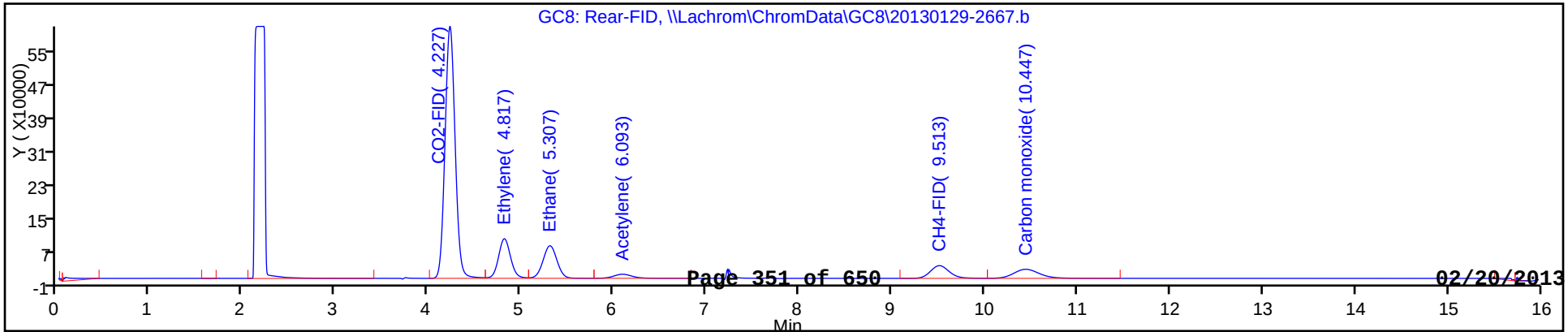
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/28 Calibration Date: 01/29/2013 20:26

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002667-028 1-29-2013 8;26;27 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (TCD)	Lin2		5.174		46100	49900	-7.7	20.0
Methane (TCD)	Lin2		3.576		49900	49500	0.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/28 Calibration Date: 01/29/2013 20:26

Instrument ID: GC8 Calib Start Date: 08/08/2012 16:18

GC Column: See SOP ID: Calib End Date: 08/08/2012 18:10

Lab File ID: 340-0002667-028 1-29-2013 8;26;27 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (TCD)	4.09	3.78	4.38
Methane (TCD)	9.40	8.70	10.10

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-028 1-29-2013 8;26;27 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 20:26:27	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-028		
Misc. Info.:	24889; GCFGTCDCCVDIL_0004; 5% CO2; 5% CH4; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	28
Sublist:	chrom-GC8D1946*sub10		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:58	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.087	4.083	0.004	258198	46052	
12 CH4-TCD						
1	9.400	9.397	0.003	177034	49878	

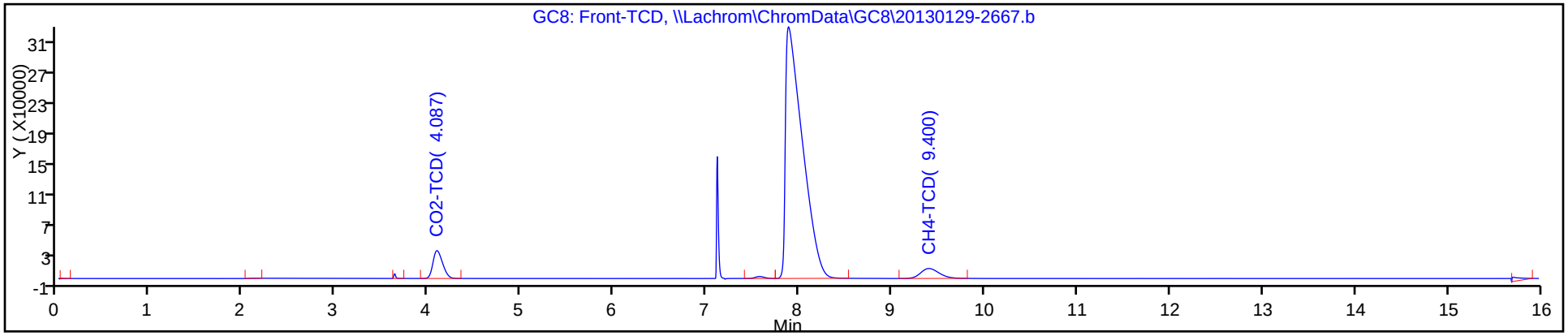
Report Date: 30-Jan-2013 10:09:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

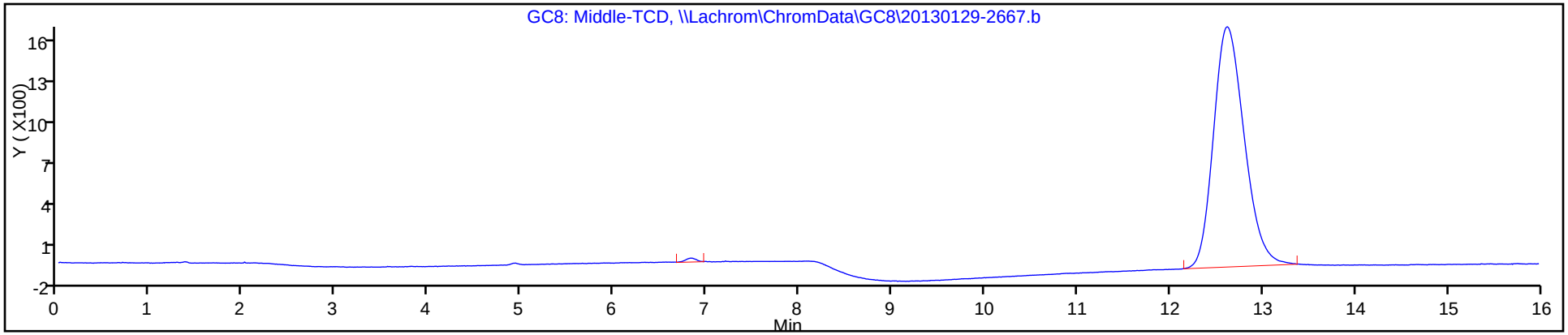
Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-028 1-29-2013 8;26;27 pm -1.d

Injection Date:	29-Jan-2013 20:26:27	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	28
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

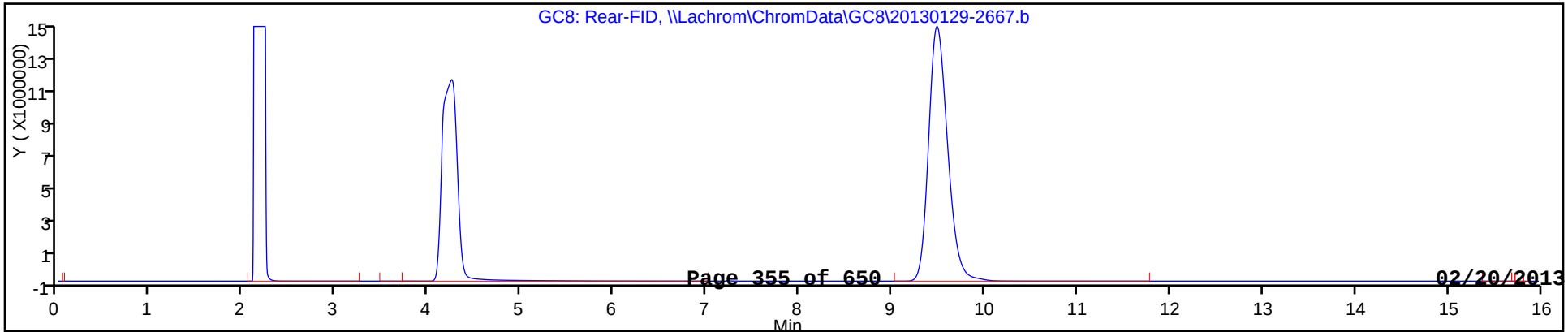
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/29 Calibration Date: 01/29/2013 21:31

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002667-029 1-29-2013 9;31;37 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Oxygen	Lin1		4.354		203000	199000	1.8	20.0
Nitrogen	Lin1		4.538		807000	800000	0.8	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/29 Calibration Date: 01/29/2013 21:31

Instrument ID: GC8 Calib Start Date: 10/17/2012 12:07

GC Column: See SOP ID: Calib End Date: 10/17/2012 14:06

Lab File ID: 340-0002667-029 1-29-2013 9;31;37 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Oxygen	7.54	7.23	7.83
Nitrogen	7.90	7.59	8.19

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-029 1-29-2013 9;31;37 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 21:31:37	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-029		
Misc. Info.:	23205 GCFGO2N2CCV2_00002; 20% O2; 80% N2; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	29
Sublist:	chrom-GC8D1946*sub18		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:59	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

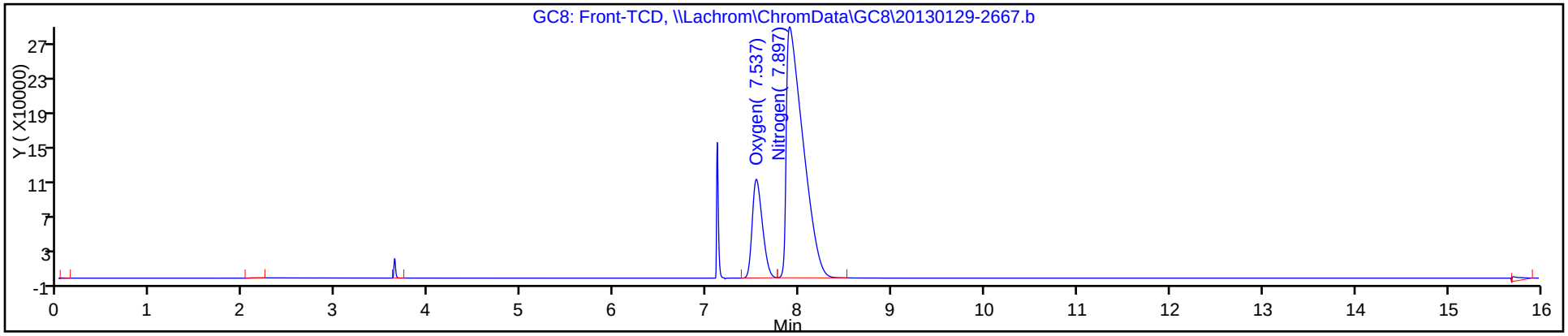
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
2 Oxygen						
1	7.537	7.533	0.004	867374	202722	
9 Nitrogen						
1	7.897	7.893	0.004	3630240	806702	

Report Date: 30-Jan-2013 10:09:59 Chrom Revision: 2.0 22-Oct-2012 16:30:48

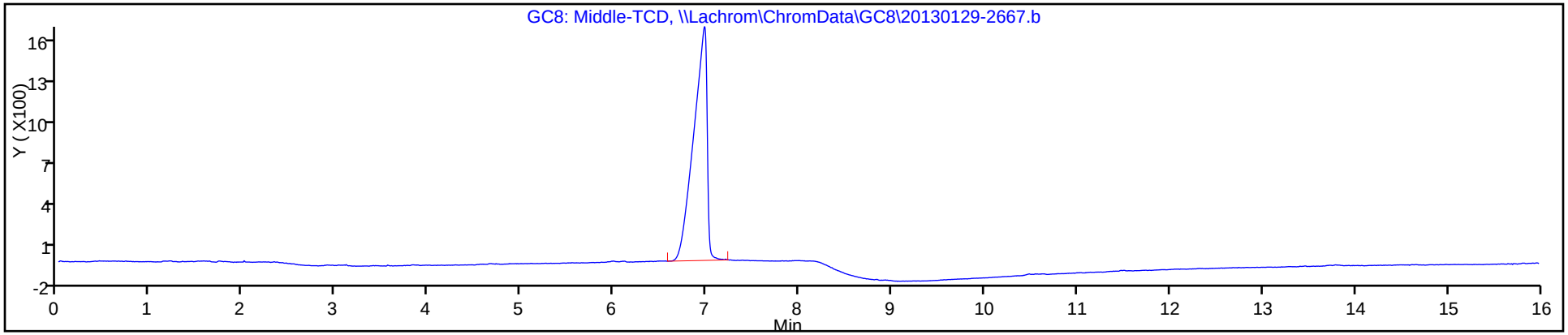
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-029 1-29-2013 9;31;37 pm -1.d		
Injection Date:	29-Jan-2013 21:31:37	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	29
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

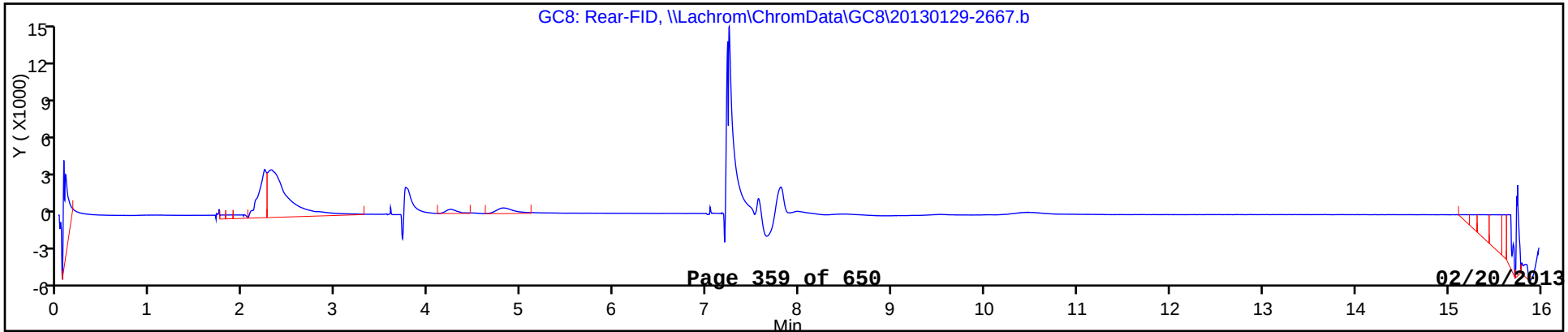
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Acetylene	Lin1		7103		22.3	20.0	11.7	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/09/2012 11:50

GC Column: See SOP ID: Calib End Date: 11/09/2012 13:25

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Acetylene	6.09	5.82	6.42

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 21:48:39	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-030		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	30
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:10:01	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.230	4.237	-0.007	4602001	1195.0	
5 Ethylene						
3	4.817	4.827	-0.010	869160	117.4	
8 Helium						
2	4.980	4.987	-0.007	42464	24419	
1 Hydrogen						
2	5.310	5.217	0.093	65976	23964	
4 Ethane						
3	5.310	5.327	-0.017	832142	121.7	
3 Acetylene						
3	6.090	6.117	-0.027	142058	22.3	
11 CH4-FID						
3	9.517	9.527	-0.010	440534	116.2	
7 Carbon monoxide						
3	10.447	10.477	-0.030	430699	111.7	

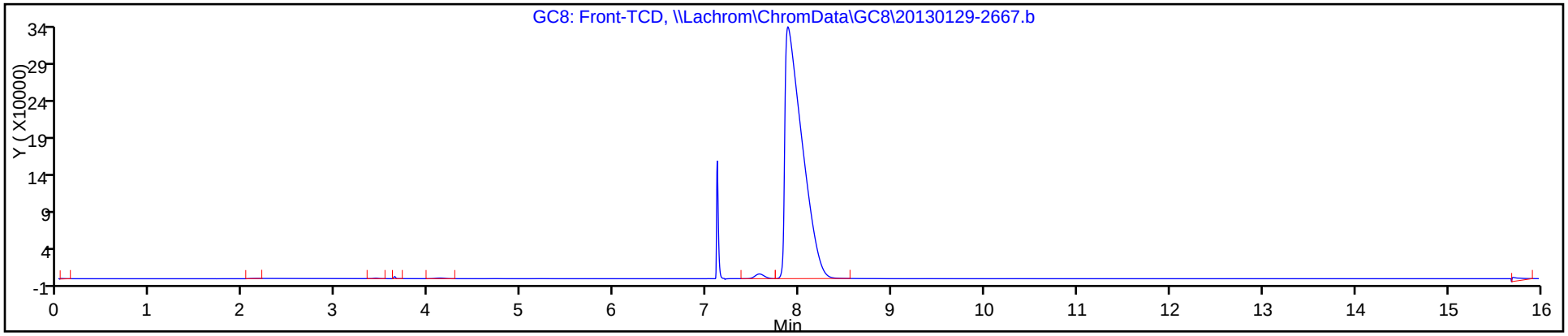
Report Date: 30-Jan-2013 10:10:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

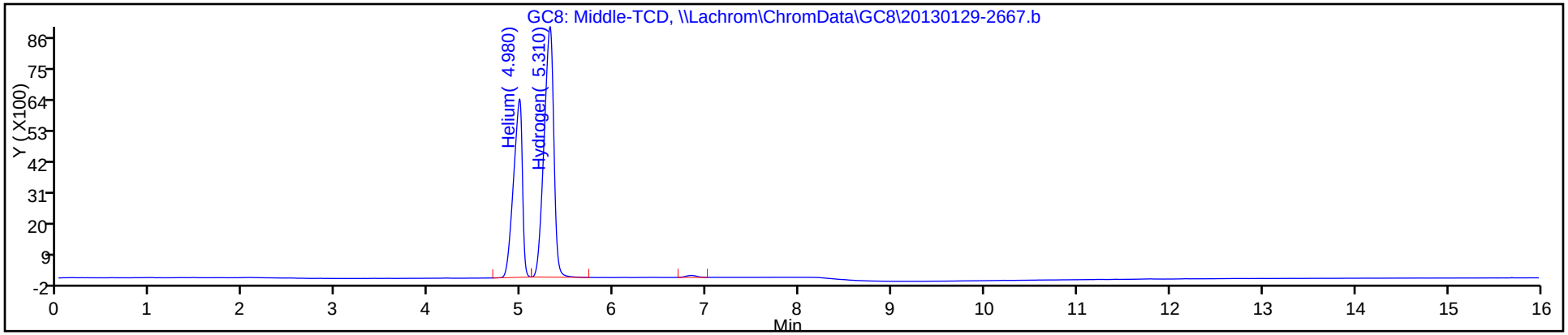
Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d

Injection Date:	29-Jan-2013 21:48:39	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	30
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

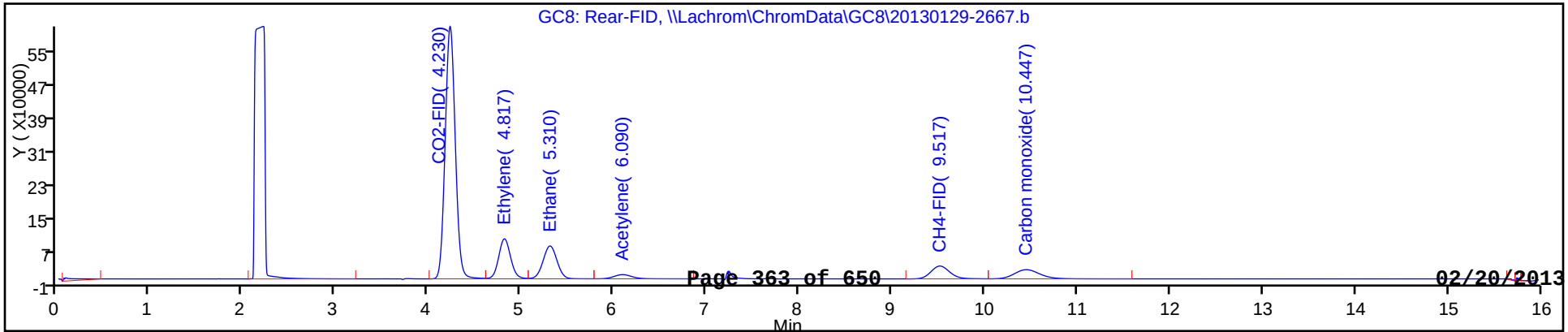
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Carbon Dioxide (FID)	Lin1		3689		1190	1250	-4.2	20.0
Ethene	Lin1		6988		117	124	-5.6	20.0
Ethane	Lin1		6664		122	125	-2.5	20.0
Methane (FID)	Lin1		3560		116	124	-6.1	20.0
Carbon monoxide	Lin1		3820		112	113	-1.0	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/29/2012 10:27

GC Column: See SOP ID: Calib End Date: 11/29/2012 13:23

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Carbon Dioxide (FID)	4.23	3.94	4.54
Ethene	4.82	4.53	5.13
Ethane	5.31	5.03	5.63
Methane (FID)	9.52	9.23	9.83
Carbon monoxide	10.45	10.18	10.78

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 21:48:39	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-030		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	30
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:10:01	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.230	4.237	-0.007	4602001	1195.0	
5 Ethylene						
3	4.817	4.827	-0.010	869160	117.4	
8 Helium						
2	4.980	4.987	-0.007	42464	24419	
1 Hydrogen						
2	5.310	5.217	0.093	65976	23964	
4 Ethane						
3	5.310	5.327	-0.017	832142	121.7	
3 Acetylene						
3	6.090	6.117	-0.027	142058	22.3	
11 CH4-FID						
3	9.517	9.527	-0.010	440534	116.2	
7 Carbon monoxide						
3	10.447	10.477	-0.030	430699	111.7	

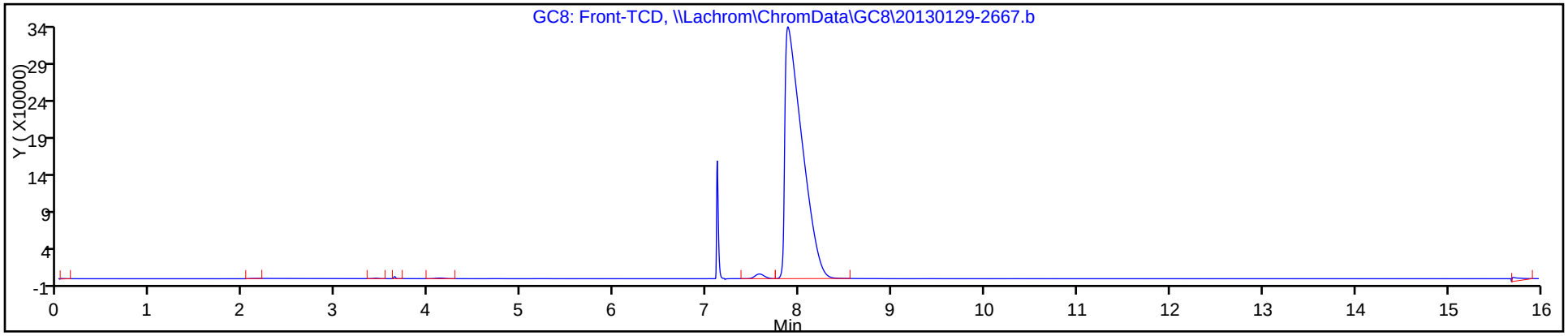
Report Date: 30-Jan-2013 10:10:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

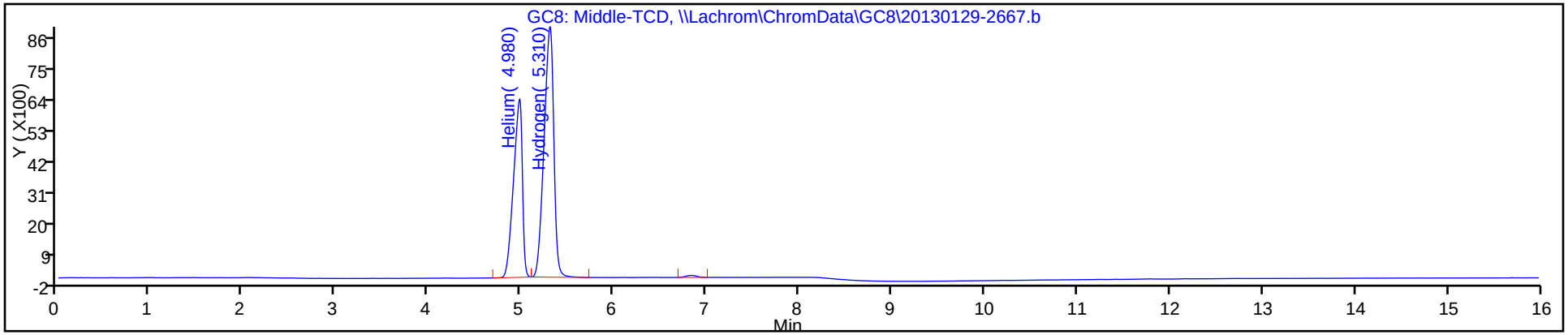
Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d

Injection Date:	29-Jan-2013 21:48:39	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	30
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

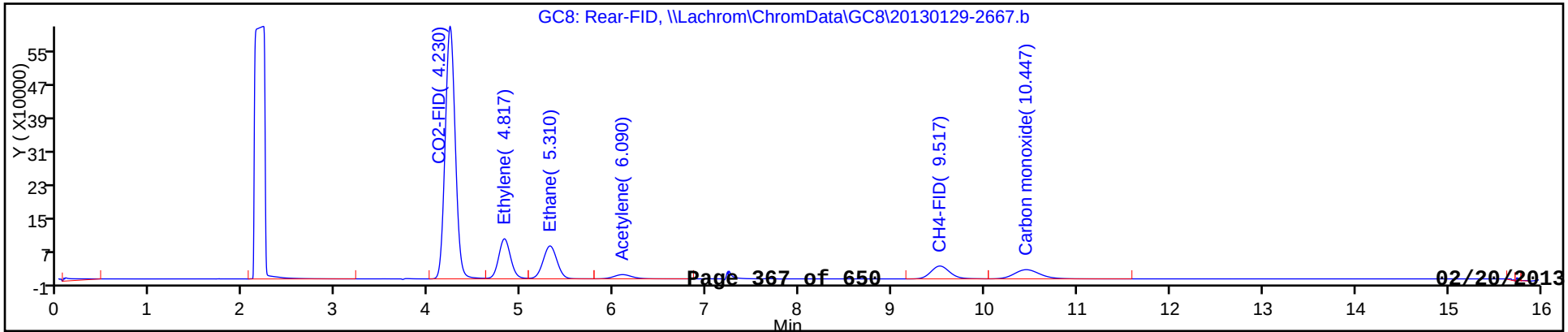
Y Scaling:



Y Scaling:



Y Scaling:



FORM VII
GC VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Conc. Units: ppm v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Helium	Lin2		1.699		24400	25000	-2.3	20.0
Hydrogen	Lin2		2.639		24000	25000	-4.1	20.0

FORM VII
GC VOA CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: CCV 340-3886/30 Calibration Date: 01/29/2013 21:48

Instrument ID: GC8 Calib Start Date: 11/14/2012 15:07

GC Column: See SOP ID: Calib End Date: 11/14/2012 16:58

Lab File ID: 340-0002667-030 1-29-2013 9;48;39 Heated Purge: (Y/N) N

Analyte	RT	RT WINDOW	
		FROM	TO
Helium	4.98	4.69	5.29
Hydrogen	5.31	4.92	5.52

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d		
Lims ID:	CCV	Client ID:	
Inject. Date:	29-Jan-2013 21:48:39	Dil. Factor:	1.0000
Sample Type:	CCV		
Sample ID:	340-0002667-030		
Misc. Info.:	24170; GCFIDCCV125_00004; FID/MID CCV; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	30
Sublist:	chrom-GC8D1946*sub28		
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:10:01	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.230	4.237	-0.007	4602001	1195.0	
5 Ethylene						
3	4.817	4.827	-0.010	869160	117.4	
8 Helium						
2	4.980	4.987	-0.007	42464	24419	
1 Hydrogen						
2	5.310	5.217	0.093	65976	23964	
4 Ethane						
3	5.310	5.327	-0.017	832142	121.7	
3 Acetylene						
3	6.090	6.117	-0.027	142058	22.3	
11 CH4-FID						
3	9.517	9.527	-0.010	440534	116.2	
7 Carbon monoxide						
3	10.447	10.477	-0.030	430699	111.7	

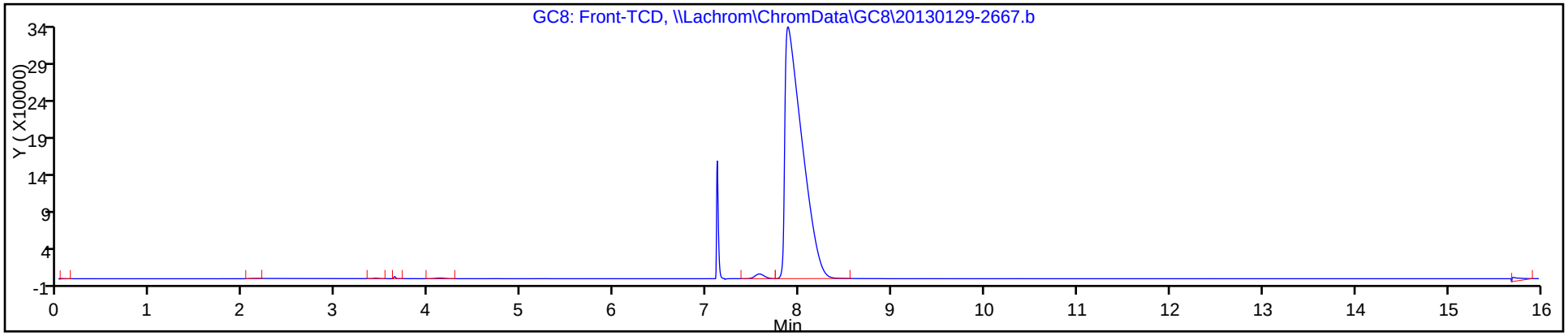
Report Date: 30-Jan-2013 10:10:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

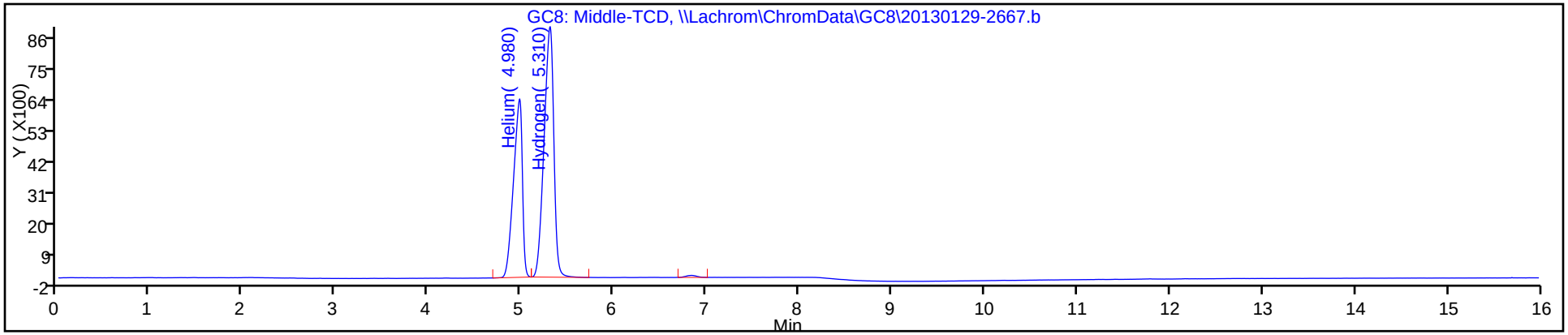
Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-030 1-29-2013 9;48;39 pm -1.d

Injection Date:	29-Jan-2013 21:48:39	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	30
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

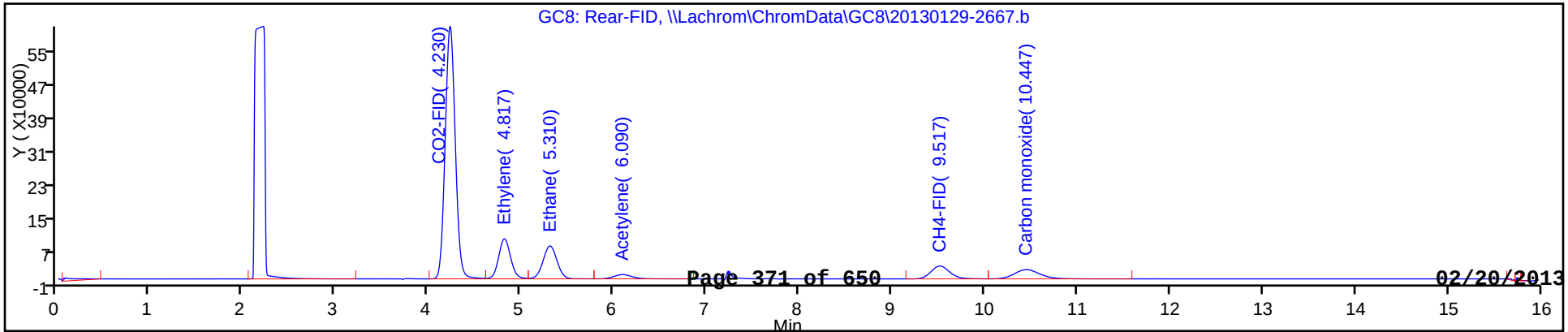
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: MB 340-3877/8
Matrix: Air
Lab File ID: 340-0002661-008 1-28-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/28/2013 12:56
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: See SOP ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3877
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	ND		0.010	0.0020
630-08-0	Carbon monoxide	ND		0.00091	0.00020
74-84-0	Ethane	ND		0.00050	0.00012
74-85-1	Ethene	0.000222	J	0.00050	0.00015
74-82-8	Methane (FID)	ND		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-008 1-28-2013 12;56;32 pm -1.d		
Lims ID:	MB	Client ID:	
Inject. Date:	28-Jan-2013 12:56:32	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	340-0002661-008		
Misc. Info.:	Helium Method Blank; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	8
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						1
1		4.083				
14 CO2-FID						
3	4.410	4.237	0.173	1164	18.2	
5 Ethylene						
3	4.820	4.827	-0.007	11071	2.22	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
3 Acetylene						1
3		6.117				
2 Oxygen						1
1		7.537				
9 Nitrogen						1
1		7.897				
12 CH4-TCD						1
1		9.400				
11 CH4-FID						1
3		9.527				
7 Carbon monoxide						1
3		10.477				
15 Nonmethane Organic Compounds as He						1
3		13.067				

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags

S 16 Nonmethane Organic Compounds as Me
3 14.733

QC Flag Legend

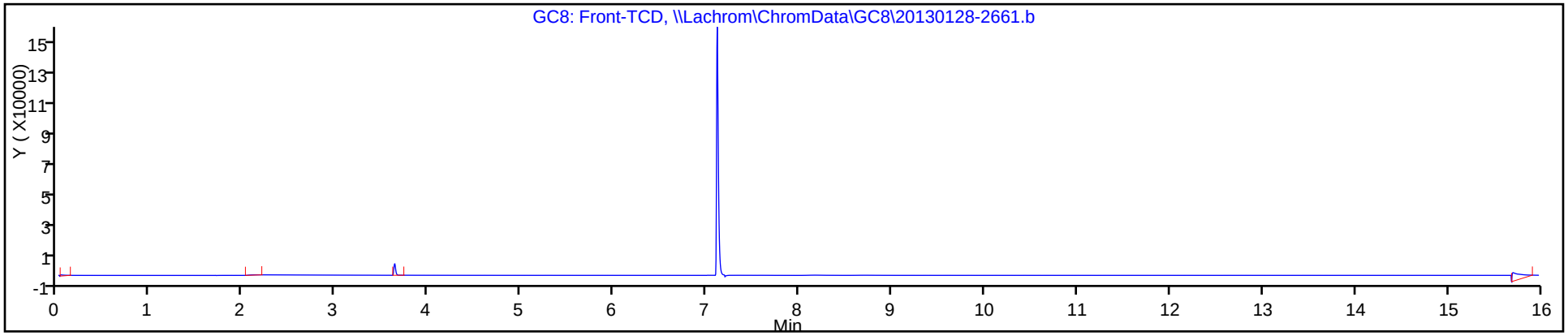
Processing Flags
1 - Missing Peaks

Report Date: 29-Jan-2013 11:19:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

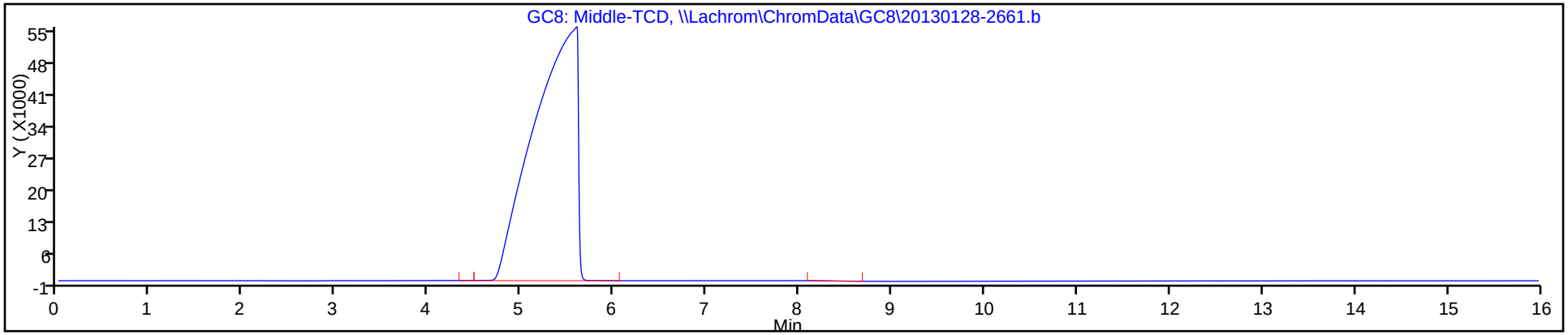
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-008 1-28-2013 12;56;32 pm -1.d		
Injection Date:	28-Jan-2013 12:56:32	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

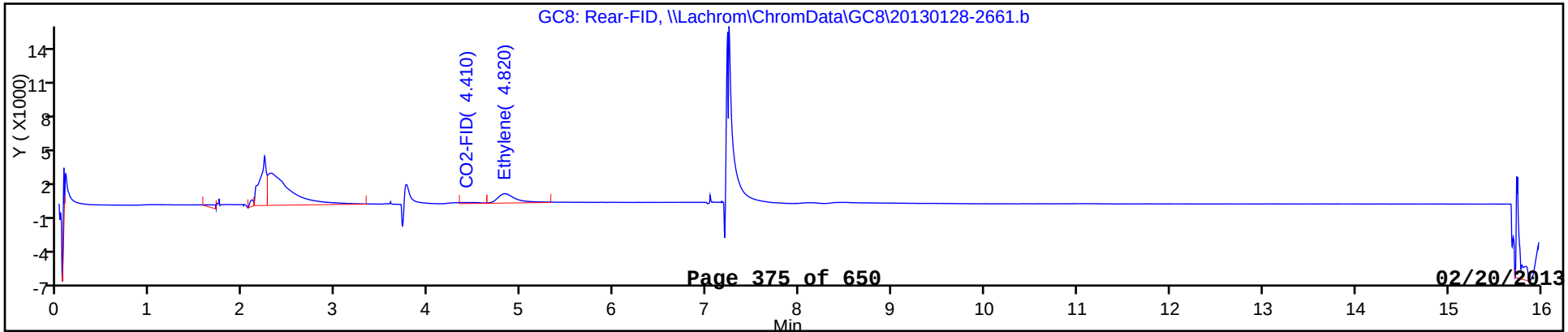
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-3877/8

Matrix: Air | Lab File ID: 340-0002661-008 1-28-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 12:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	ND		1.8	0.60
7782-44-7	Oxygen	ND		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-008 1-28-2013 12;56;32 pm -1.d		
Lims ID:	MB	Client ID:	
Inject. Date:	28-Jan-2013 12:56:32	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	340-0002661-008		
Misc. Info.:	Helium Method Blank; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	8
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						1
1		4.083				
14 CO2-FID						
3	4.410	4.237	0.173	1164	18.2	
5 Ethylene						
3	4.820	4.827	-0.007	11071	2.22	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
3 Acetylene						1
3		6.117				
2 Oxygen						1
1		7.537				
9 Nitrogen						1
1		7.897				
12 CH4-TCD						1
1		9.400				
11 CH4-FID						1
3		9.527				
7 Carbon monoxide						1
3		10.477				
15 Nonmethane Organic Compounds as He						1
3		13.067				

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags

S 16 Nonmethane Organic Compounds as Me
3 14.733

QC Flag Legend

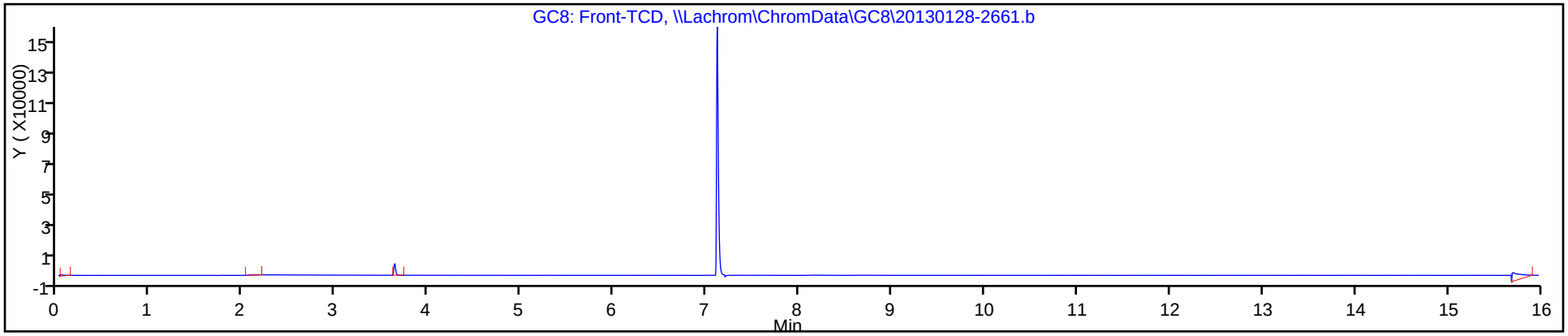
Processing Flags
1 - Missing Peaks

Report Date: 29-Jan-2013 11:19:31 Chrom Revision: 2.0 22-Oct-2012 16:30:48

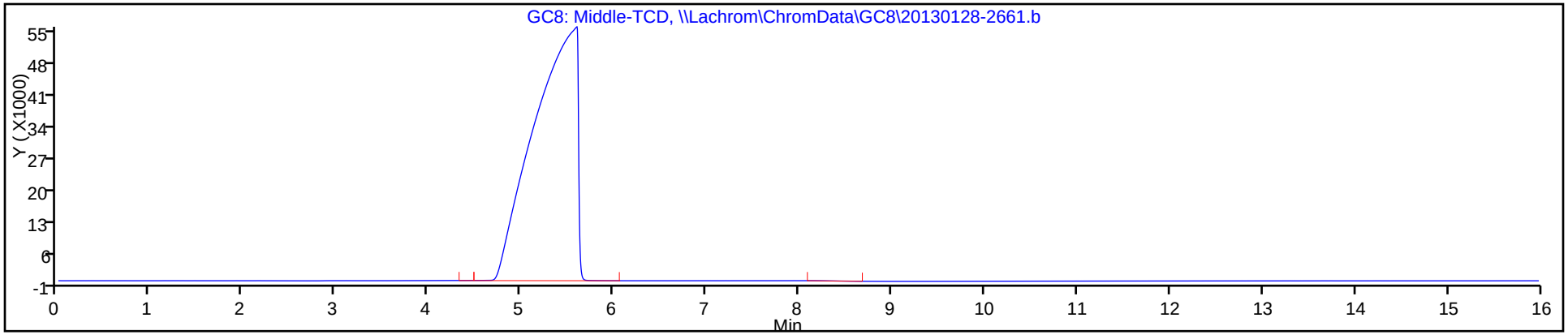
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-008 1-28-2013 12;56;32 pm -1.d		
Injection Date:	28-Jan-2013 12:56:32	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

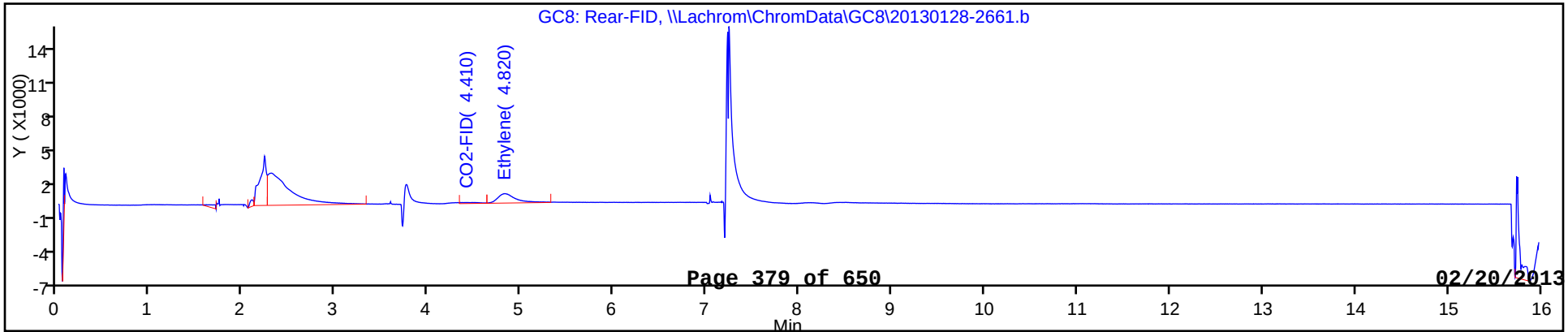
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 340-3886/8

Matrix: Air Lab File ID: 340-0002667-008 1-29-2013

Analysis Method: D1946 Date Collected:

Sample wt/vol: 1(mL) Date Analyzed: 01/29/2013 12:57

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3886 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	ND		0.010	0.0020
630-08-0	Carbon monoxide	ND		0.00091	0.00020
74-84-0	Ethane	ND		0.00050	0.00012
74-85-1	Ethene	0.000163	J	0.00050	0.00015
74-82-8	Methane (FID)	ND		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-008 1-29-2013 12;57;17 pm -1.d
Lims ID: MB
Client ID:
Inject. Date: 29-Jan-2013 12:57:17
Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 340-0002667-008
Misc. Info.: Helium Method Blank; EI
Operator: EI
Instrument ID: GC8
Injection Vol: 1.0 mL
ALS Bottle#: 0
Lims Batch ID: 3886
Lims Sample ID: 8
Detector 1 : GC8: Front-TCD
Detector 2 : GC8: Middle-TCD
Detector 3 : GC8: Rear-FID

Method: \\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m
Method Label: D1946 Sample Report
Last Update: 30-Jan-2013 10:09:36
Calib Date: 29-Nov-2012 13:23:46
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d
Limit Group: ASTM D-1946
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK023

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						1
1		4.083				
14 CO2-FID						1
3		4.237				
5 Ethylene						
3	4.817	4.827	-0.010	6710	1.63	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
3 Acetylene						1
3		6.117				
2 Oxygen						1
1		7.533				
9 Nitrogen						1
1		7.893				
12 CH4-TCD						1
1		9.397				
11 CH4-FID						1
3		9.527				
7 Carbon monoxide						1
3		10.477				
15 Nonmethane Organic Compounds as He						1
3		13.067				

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags

S 16 Nonmethane Organic Compounds as Me
3 14.733

QC Flag Legend

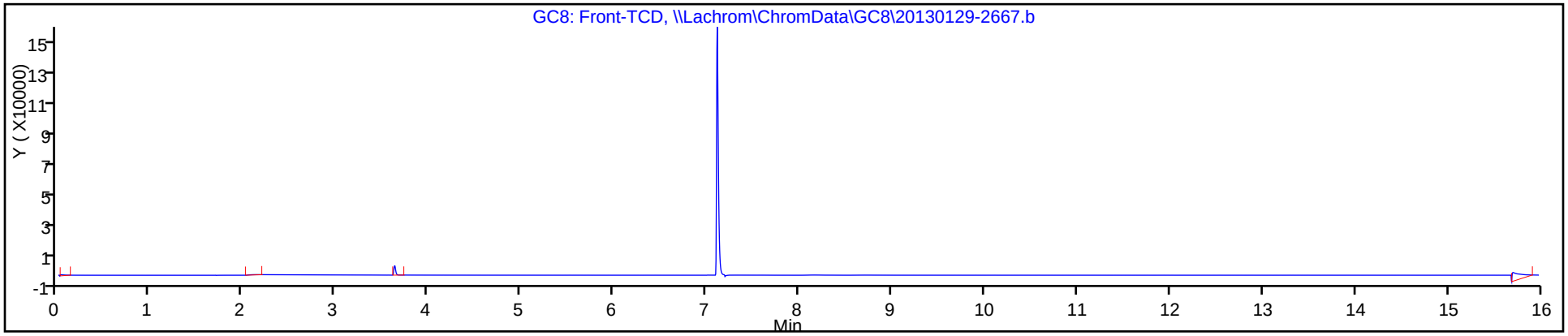
Processing Flags
1 - Missing Peaks

Report Date: 30-Jan-2013 10:09:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

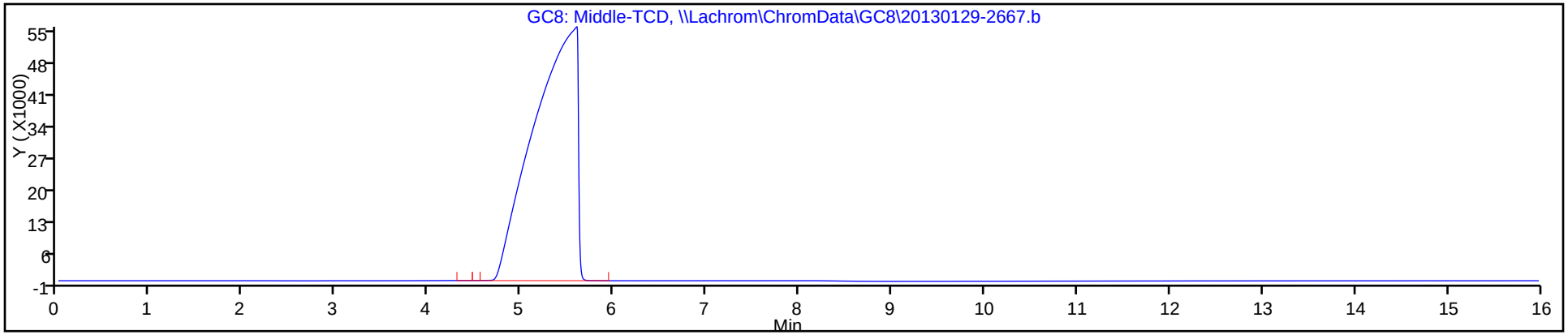
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-008 1-29-2013 12;57;17 pm -1.d		
Injection Date:	29-Jan-2013 12:57:17	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

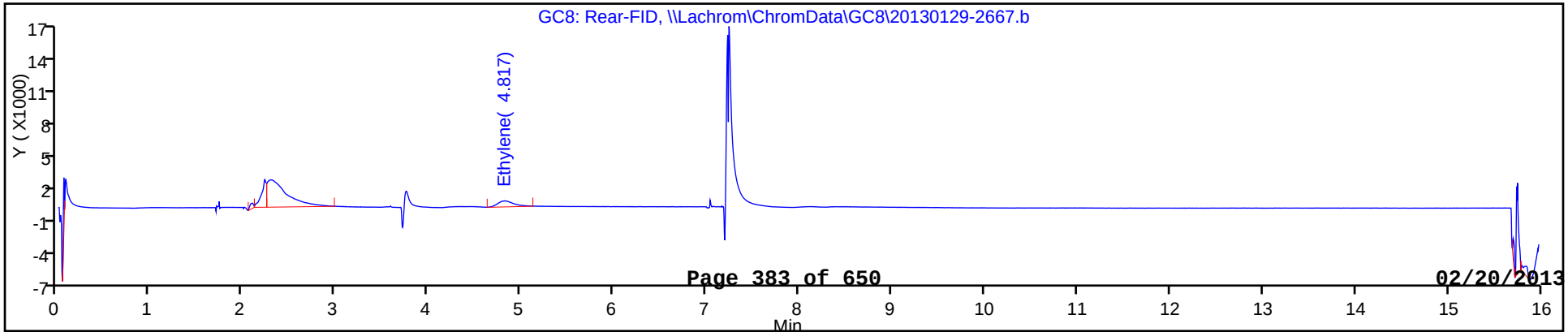
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-3886/8

Matrix: Air | Lab File ID: 340-0002667-008 1-29-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 12:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	ND		1.8	0.60
7782-44-7	Oxygen	ND		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-008 1-29-2013 12;57;17 pm -1.d
Lims ID: MB
Client ID:
Inject. Date: 29-Jan-2013 12:57:17
Dil. Factor: 1.0000
Sample Type: MB
Sample ID: 340-0002667-008
Misc. Info.: Helium Method Blank; EI
Operator: EI
Instrument ID: GC8
Injection Vol: 1.0 mL
ALS Bottle#: 0
Lims Batch ID: 3886
Lims Sample ID: 8
Detector 1 : GC8: Front-TCD
Detector 2 : GC8: Middle-TCD
Detector 3 : GC8: Rear-FID

Method: \\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m
Method Label: D1946 Sample Report
Last Update: 30-Jan-2013 10:09:36
Calib Date: 29-Nov-2012 13:23:46
Quant Method: External Standard
Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d
Limit Group: ASTM D-1946
Integrator: Falcon
Column Type:
Column Dia:
Process Host: XAWRK023

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						1
1		4.083				
14 CO2-FID						1
3		4.237				
5 Ethylene						
3	4.817	4.827	-0.010	6710	1.63	
8 Helium						1
2		4.987				
1 Hydrogen						1
2		5.217				
4 Ethane						1
3		5.327				
3 Acetylene						1
3		6.117				
2 Oxygen						1
1		7.533				
9 Nitrogen						1
1		7.893				
12 CH4-TCD						1
1		9.397				
11 CH4-FID						1
3		9.527				
7 Carbon monoxide						1
3		10.477				
15 Nonmethane Organic Compounds as He						1
3		13.067				

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags

S 16 Nonmethane Organic Compounds as Me
3 14.733

QC Flag Legend

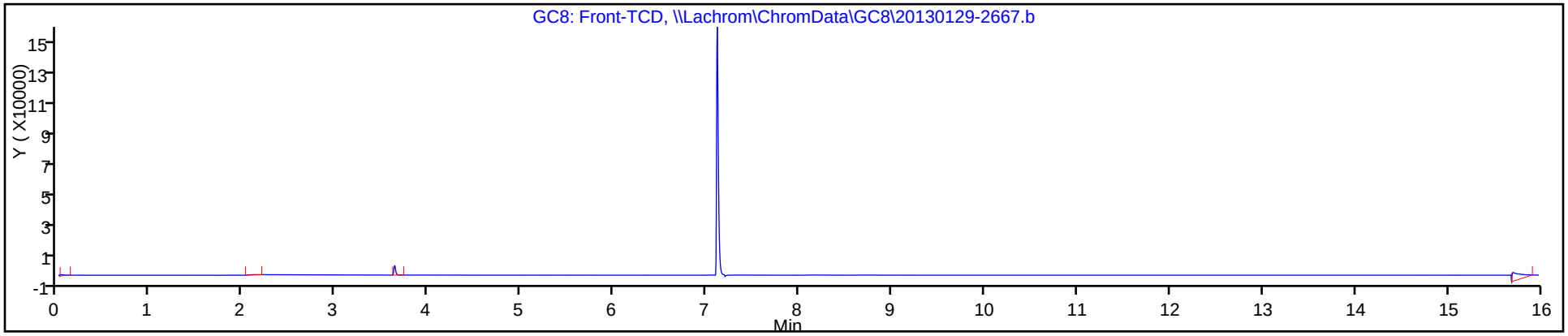
Processing Flags
1 - Missing Peaks

Report Date: 30-Jan-2013 10:09:42 Chrom Revision: 2.0 22-Oct-2012 16:30:48

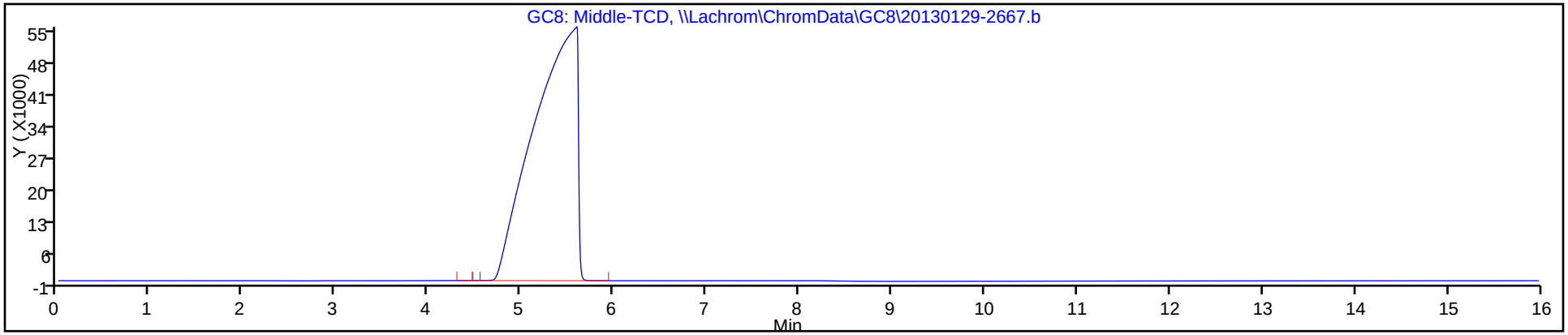
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-008 1-29-2013 12;57;17 pm -1.d		
Injection Date:	29-Jan-2013 12:57:17	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	8
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

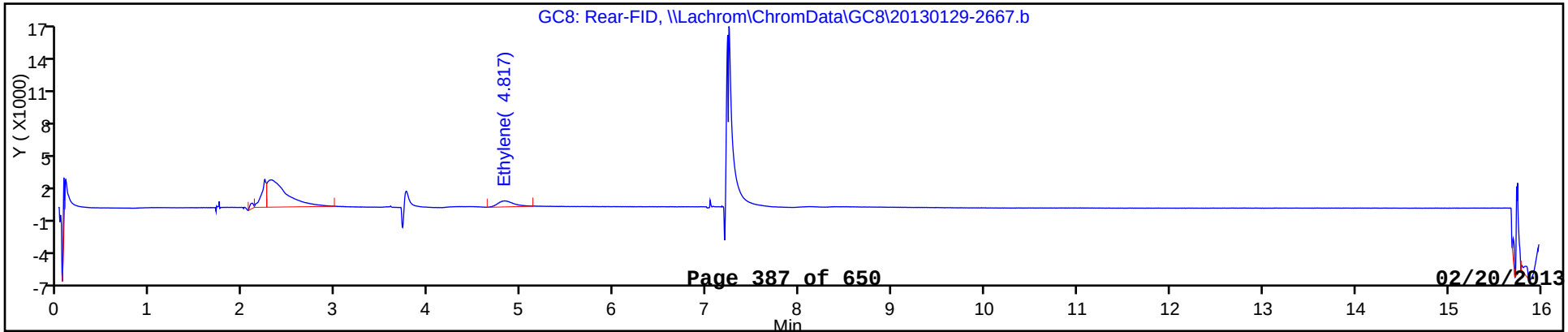
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 340-3877/4
Matrix: Air
Lab File ID: 340-0002661-004 1-28-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/28/2013 11:27
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3877
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	9.26		0.010	0.0020
74-82-8	Methane (TCD)	10.2		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-004 1-28-2013 11;27;45 am -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	28-Jan-2013 11:27:45	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002661-004		
Misc. Info.:	24962; FGSPKTCDDIL_00002; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	4
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

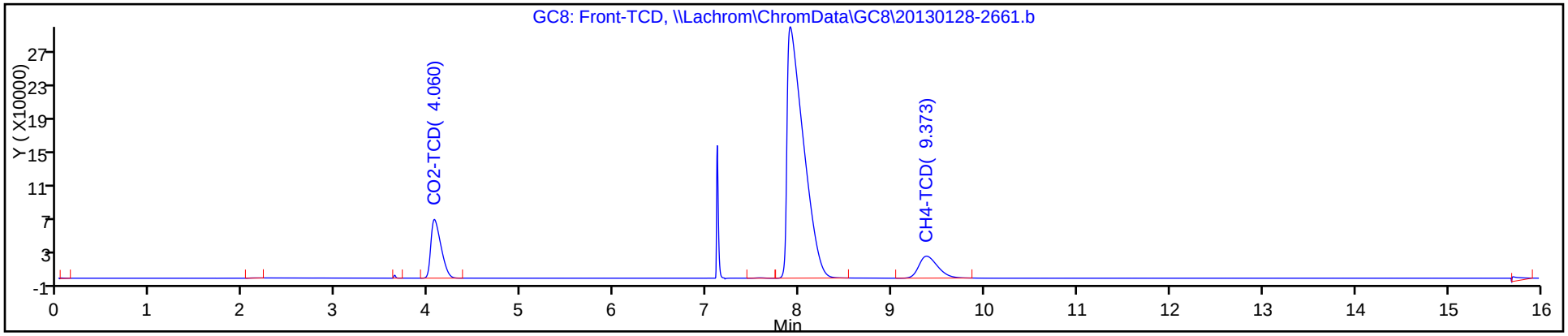
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.060	4.083	-0.023	525086	92615	
12 CH4-TCD						
1	9.373	9.400	-0.027	365434	101751	

Report Date: 29-Jan-2013 11:19:26 Chrom Revision: 2.0 22-Oct-2012 16:30:48

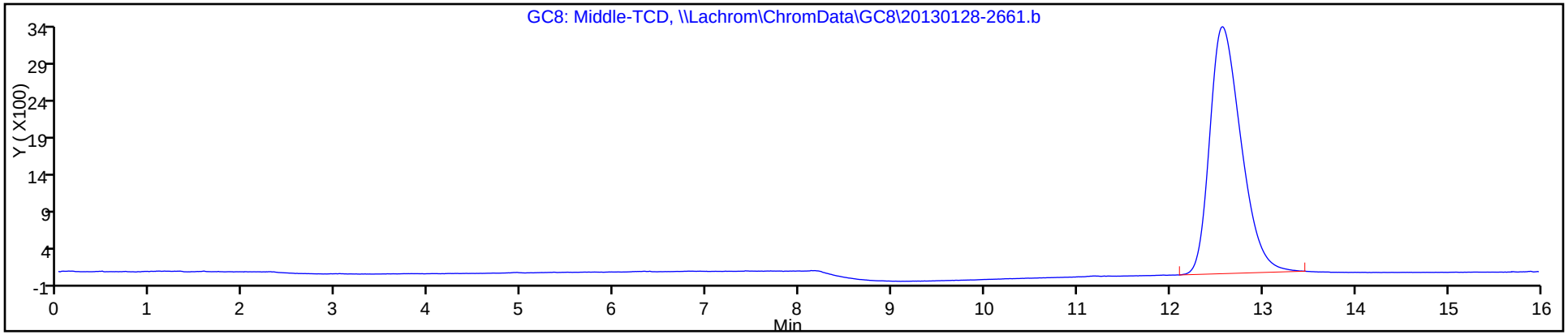
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-004 1-28-2013 11;27;45 am -1.d		
Injection Date:	28-Jan-2013 11:27:45	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

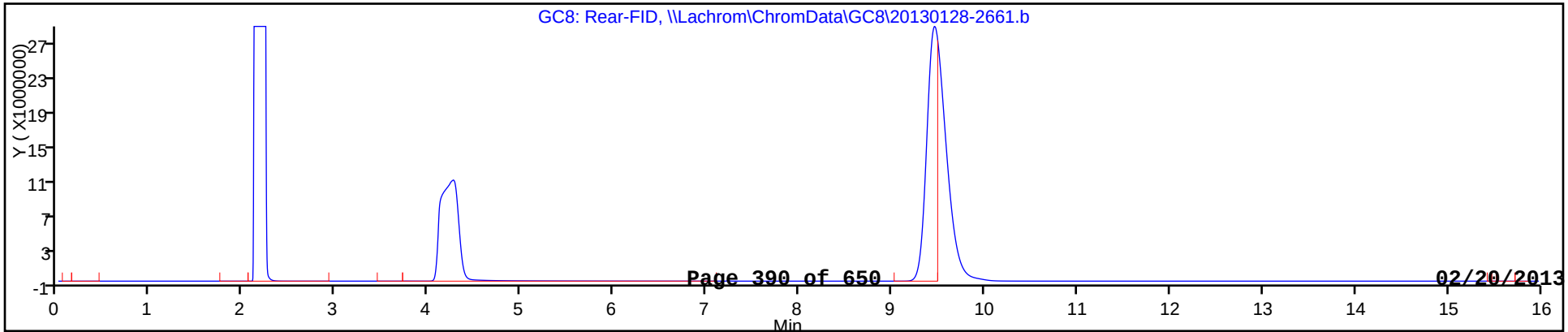
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 340-3877/6
Matrix: Air
Lab File ID: 340-0002661-006 1-28-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/28/2013 12:05
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: See SOP ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3877
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.447		0.010	0.0020
630-08-0	Carbon monoxide	0.0488		0.00091	0.00020
74-84-0	Ethane	0.0550		0.00050	0.00012
74-85-1	Ethene	0.0542		0.00050	0.00015
74-82-8	Methane (FID)	0.0533		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-006 1-28-2013 12;05;01 pm -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	28-Jan-2013 12:05:01	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002661-006		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	6
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

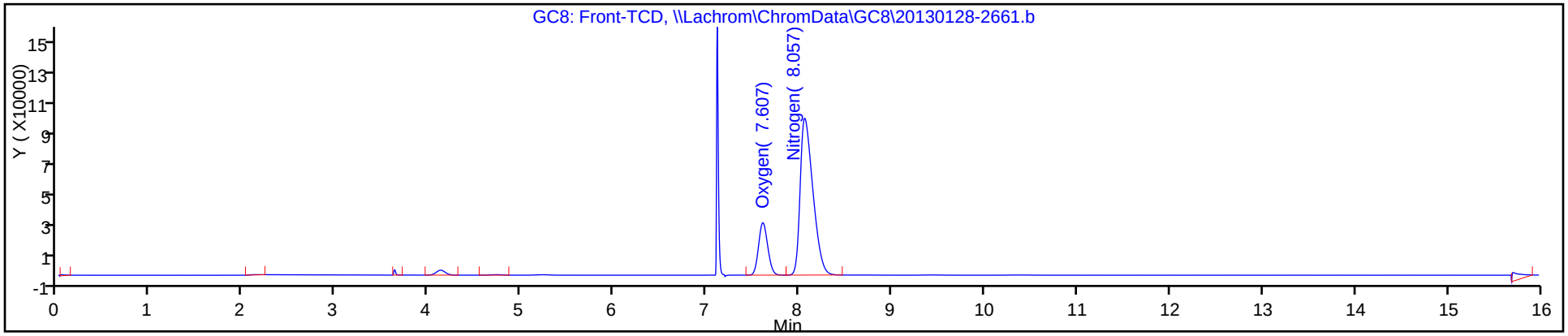
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.240	4.237	0.003	17397178	4467.7	
5 Ethylene						
3	4.823	4.827	-0.004	4032202	542.1	
4 Ethane						
3	5.320	5.327	-0.007	3785536	549.7	
2 Oxygen						
1	7.607	7.537	0.070	227889	52874	
9 Nitrogen						
1	8.057	7.897	0.160	943880	205989	
11 CH4-FID						
3	9.527	9.527	0.000	2039069	532.7	
7 Carbon monoxide						
3	10.487	10.477	0.010	1918374	487.6	

Report Date: 29-Jan-2013 11:19:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

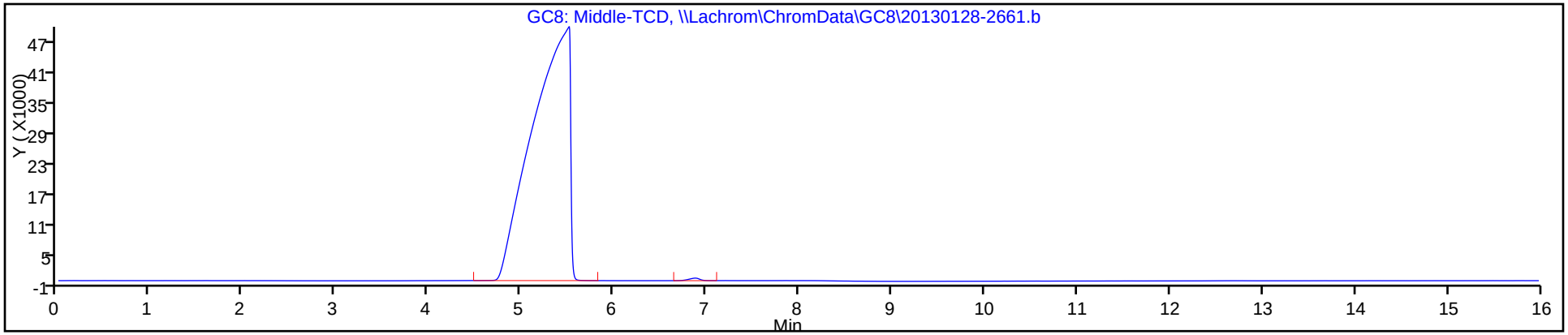
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-006 1-28-2013 12;05;01 pm -1.d		
Injection Date:	28-Jan-2013 12:05:01	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

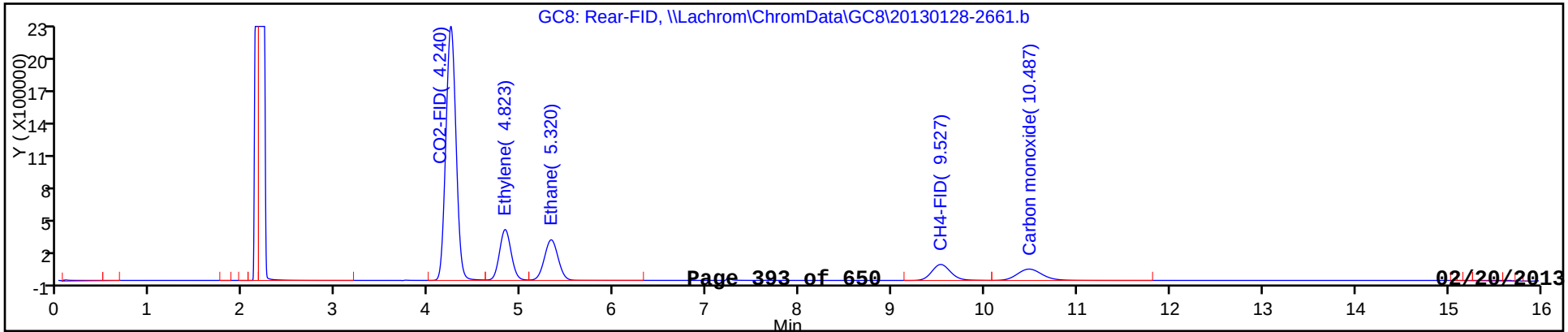
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 340-3877/6

Matrix: Air | Lab File ID: 340-0002661-006 1-28-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 12:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	20.6		1.8	0.60
7782-44-7	Oxygen	5.29		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-006 1-28-2013 12;05;01 pm -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	28-Jan-2013 12:05:01	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002661-006		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	6
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

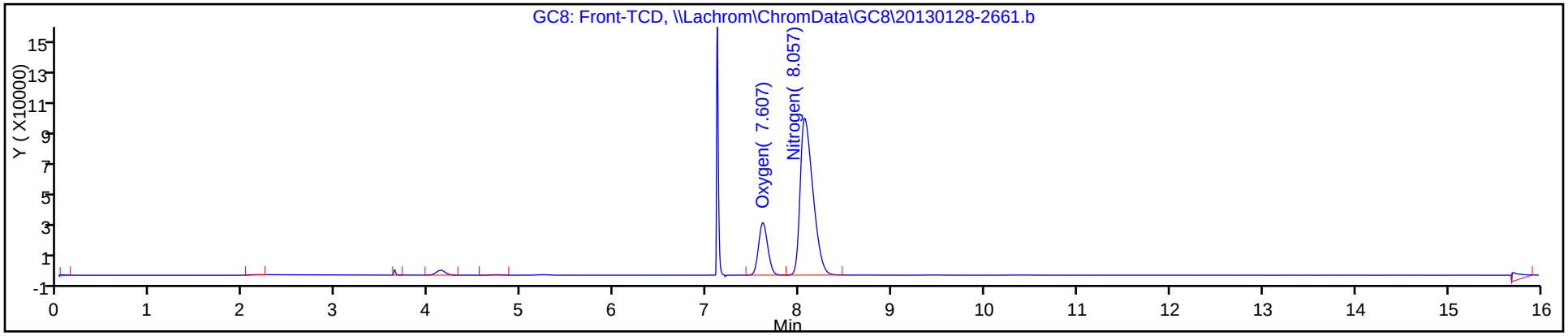
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.240	4.237	0.003	17397178	4467.7	
5 Ethylene						
3	4.823	4.827	-0.004	4032202	542.1	
4 Ethane						
3	5.320	5.327	-0.007	3785536	549.7	
2 Oxygen						
1	7.607	7.537	0.070	227889	52874	
9 Nitrogen						
1	8.057	7.897	0.160	943880	205989	
11 CH4-FID						
3	9.527	9.527	0.000	2039069	532.7	
7 Carbon monoxide						
3	10.487	10.477	0.010	1918374	487.6	

Report Date: 29-Jan-2013 11:19:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

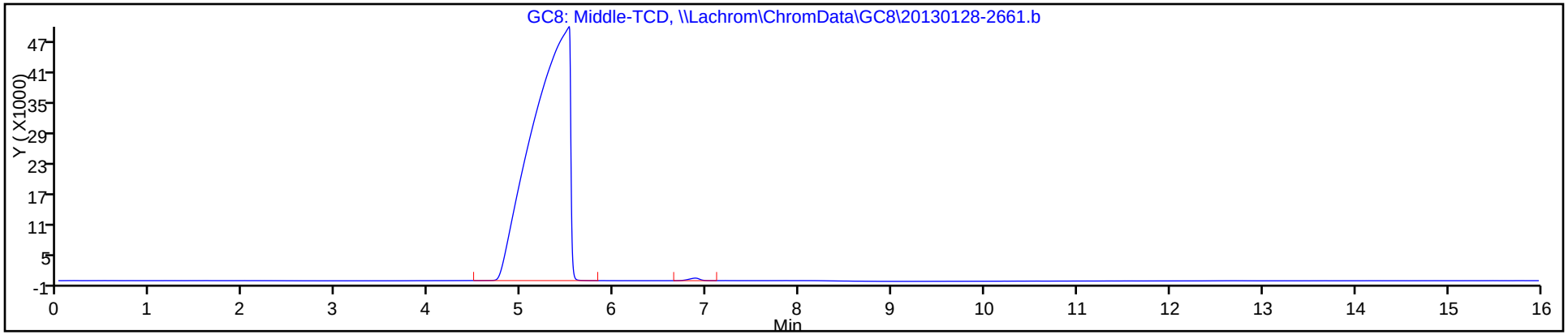
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-006 1-28-2013 12;05;01 pm -1.d		
Injection Date:	28-Jan-2013 12:05:01	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

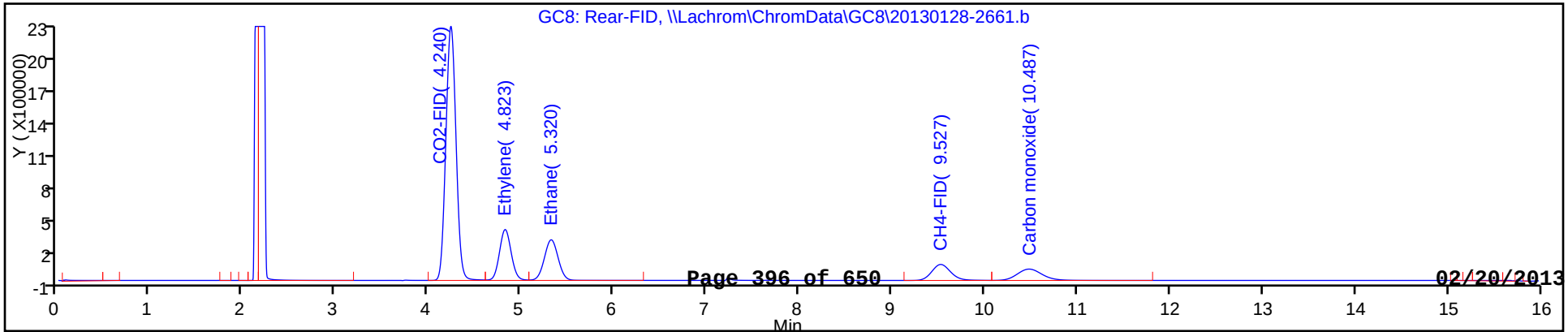
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 340-3886/4

Matrix: Air | Lab File ID: 340-0002667-004 1-29-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 11:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	9.25		0.010	0.0020
74-82-8	Methane (TCD)	10.2		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-004 1-29-2013 11;16;12 am -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	29-Jan-2013 11:16:12	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002667-004		
Misc. Info.:	24962; FGSPKTCDDIL_00002; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	4
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

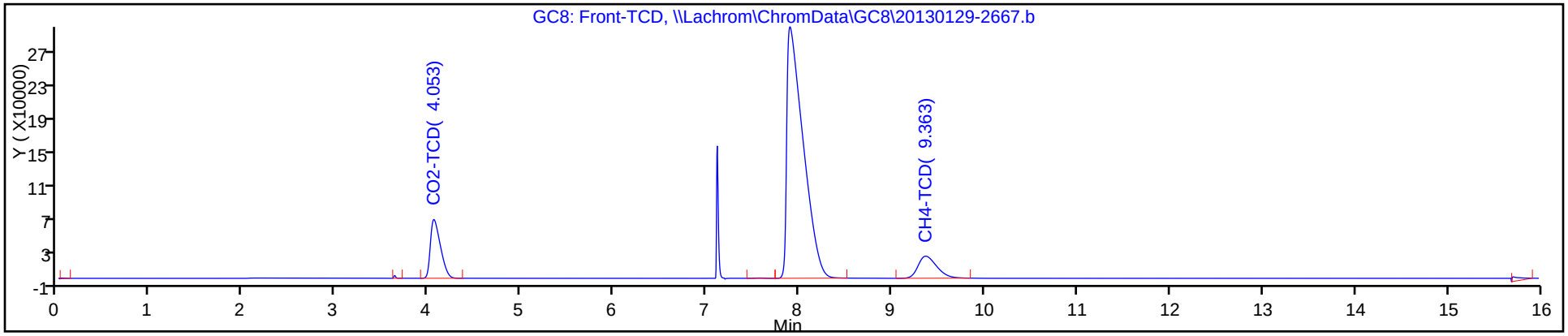
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.053	4.083	-0.030	524478	92509	
12 CH4-TCD						
1	9.363	9.397	-0.034	365123	101665	

Report Date: 30-Jan-2013 10:09:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

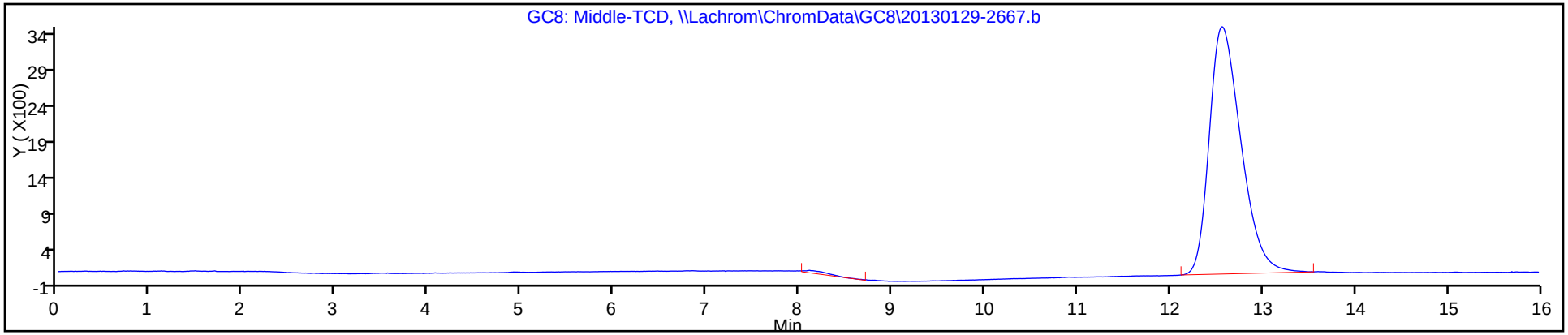
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-004 1-29-2013 11;16;12 am -1.d		
Injection Date:	29-Jan-2013 11:16:12	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	4
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

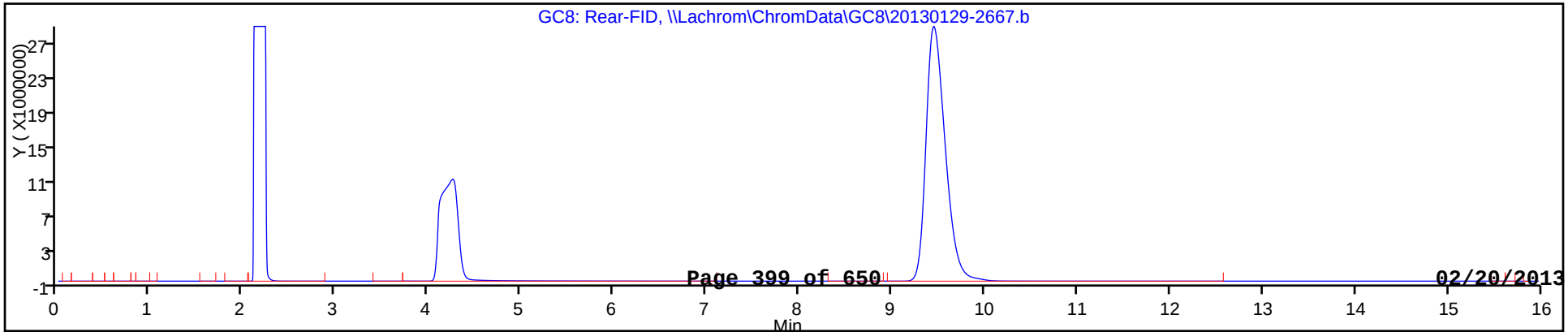
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 340-3886/6

Matrix: Air | Lab File ID: 340-0002667-006 1-29-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 11:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.450		0.010	0.0020
630-08-0	Carbon monoxide	0.0491		0.00091	0.00020
74-84-0	Ethane	0.0555		0.00050	0.00012
74-85-1	Ethene	0.0547		0.00050	0.00015
74-82-8	Methane (FID)	0.0538		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-006 1-29-2013 11;56;36 am -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	29-Jan-2013 11:56:36	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002667-006		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	6
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

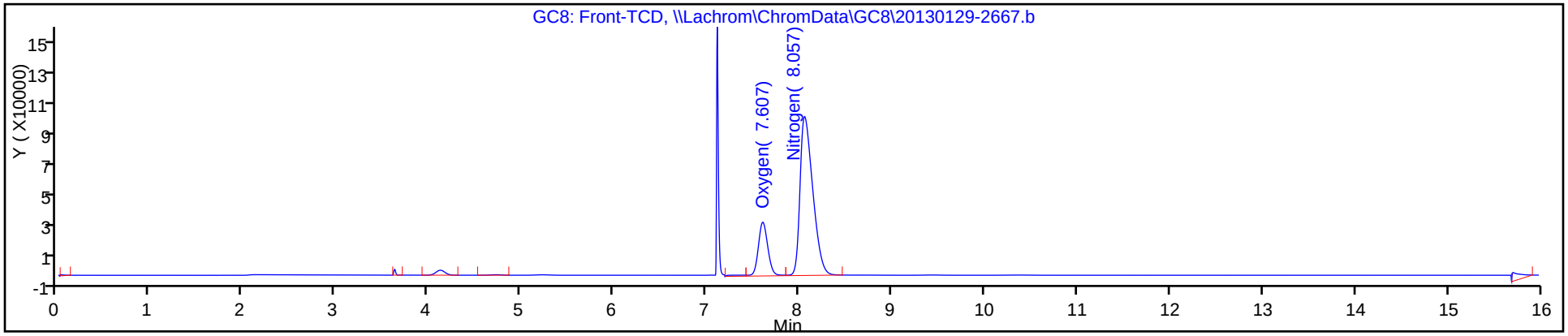
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17506403	4495.6	
5 Ethylene						
3	4.820	4.827	-0.007	4070781	547.3	
4 Ethane						
3	5.313	5.327	-0.014	3820685	554.8	
2 Oxygen						
1	7.607	7.533	0.074	240785	55896	
9 Nitrogen						
1	8.057	7.893	0.164	952585	207935	
11 CH4-FID						
3	9.520	9.527	-0.007	2059447	538.0	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1933658	491.4	

Report Date: 30-Jan-2013 10:09:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

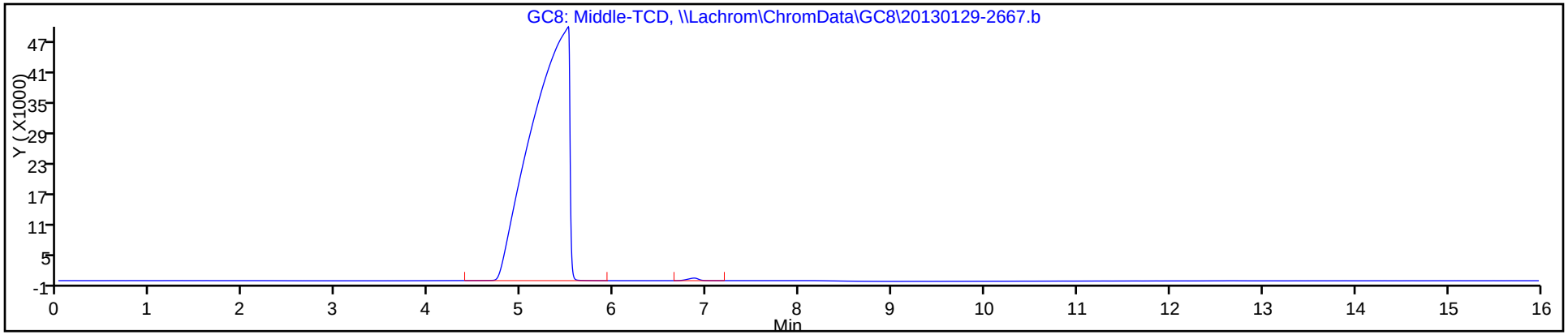
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-006 1-29-2013 11;56;36 am -1.d		
Injection Date:	29-Jan-2013 11:56:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

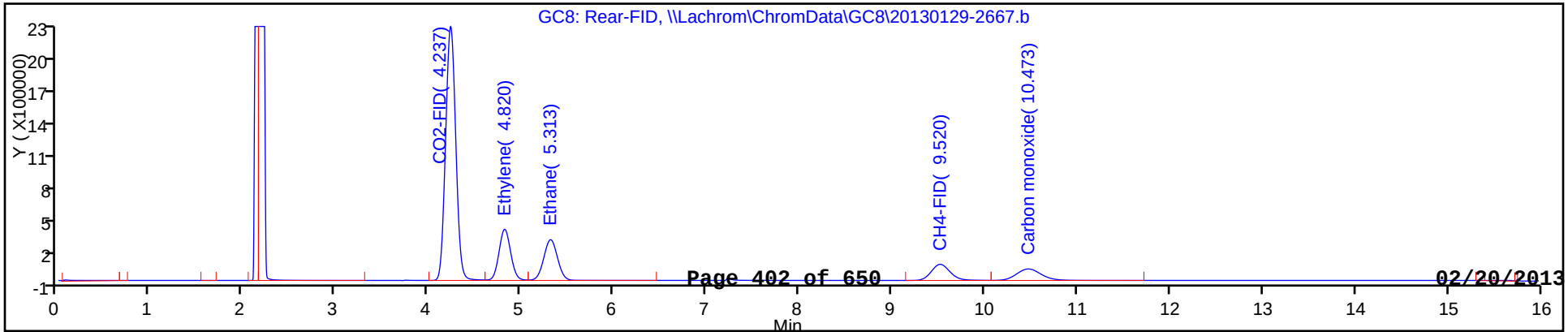
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCS 340-3886/6
Matrix: Air
Lab File ID: 340-0002667-006 1-29-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/29/2013 11:56
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3886
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	20.8		1.8	0.60
7782-44-7	Oxygen	5.59		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-006 1-29-2013 11;56;36 am -1.d		
Lims ID:	LCS	Client ID:	
Inject. Date:	29-Jan-2013 11:56:36	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	340-0002667-006		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	6
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		

Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

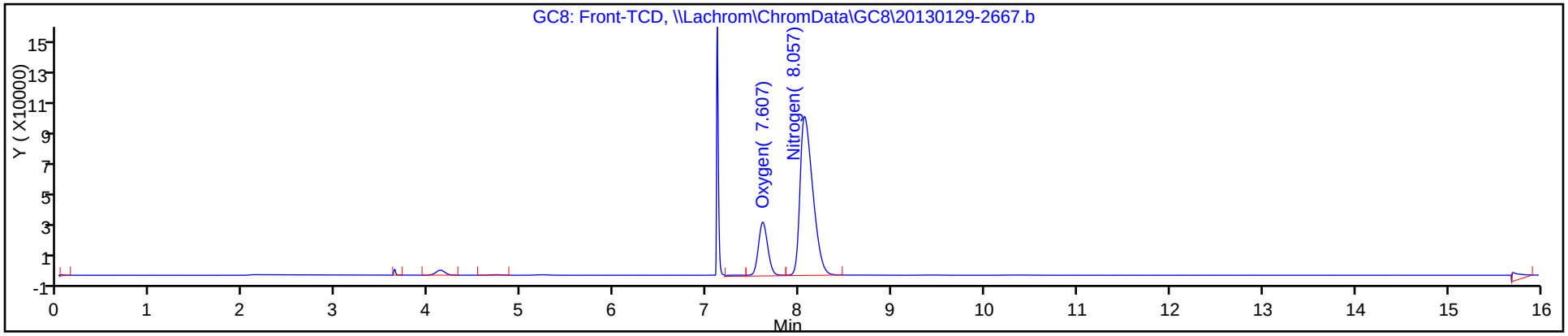
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17506403	4495.6	
5 Ethylene						
3	4.820	4.827	-0.007	4070781	547.3	
4 Ethane						
3	5.313	5.327	-0.014	3820685	554.8	
2 Oxygen						
1	7.607	7.533	0.074	240785	55896	
9 Nitrogen						
1	8.057	7.893	0.164	952585	207935	
11 CH4-FID						
3	9.520	9.527	-0.007	2059447	538.0	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1933658	491.4	

Report Date: 30-Jan-2013 10:09:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

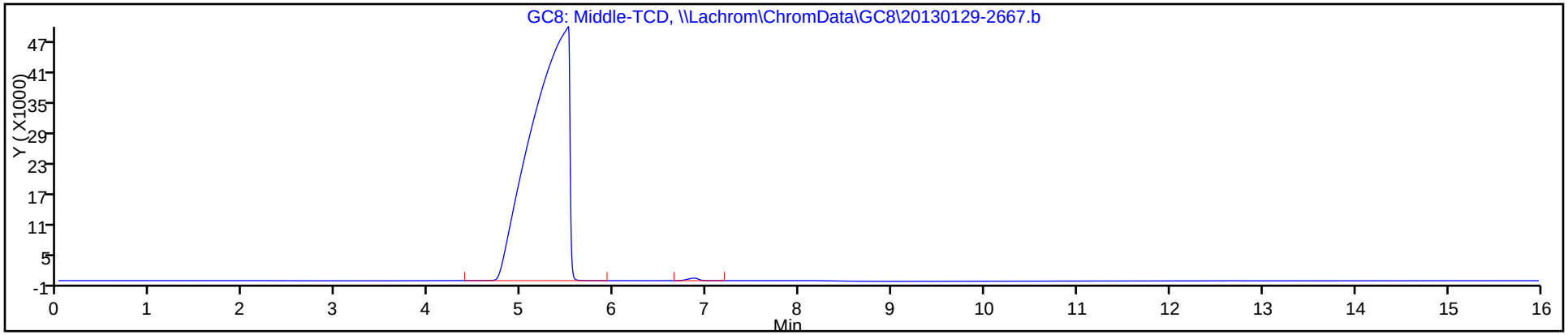
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-006 1-29-2013 11;56;36 am -1.d		
Injection Date:	29-Jan-2013 11:56:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	6
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

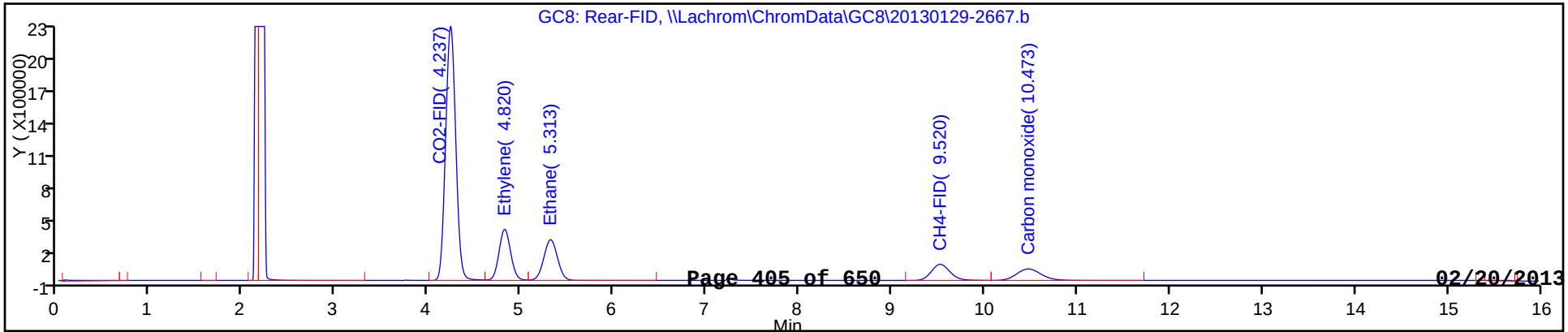
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 340-3877/5

Matrix: Air | Lab File ID: 340-0002661-005 1-28-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/28/2013 11:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3877 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	9.27		0.010	0.0020
74-82-8	Methane (TCD)	10.2		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-005 1-28-2013 11;46;10 am -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	28-Jan-2013 11:46:10	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002661-005		
Misc. Info.:	24962; FGSPKTCDDIL_00002; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	5
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

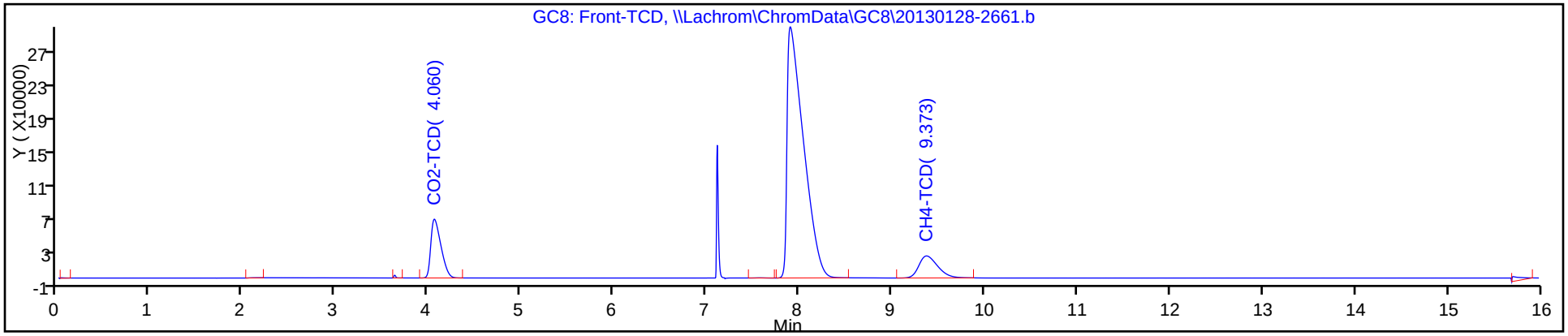
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.060	4.083	-0.023	525728	92727	
12 CH4-TCD						
1	9.373	9.400	-0.027	367025	102189	

Report Date: 29-Jan-2013 11:19:27 Chrom Revision: 2.0 22-Oct-2012 16:30:48

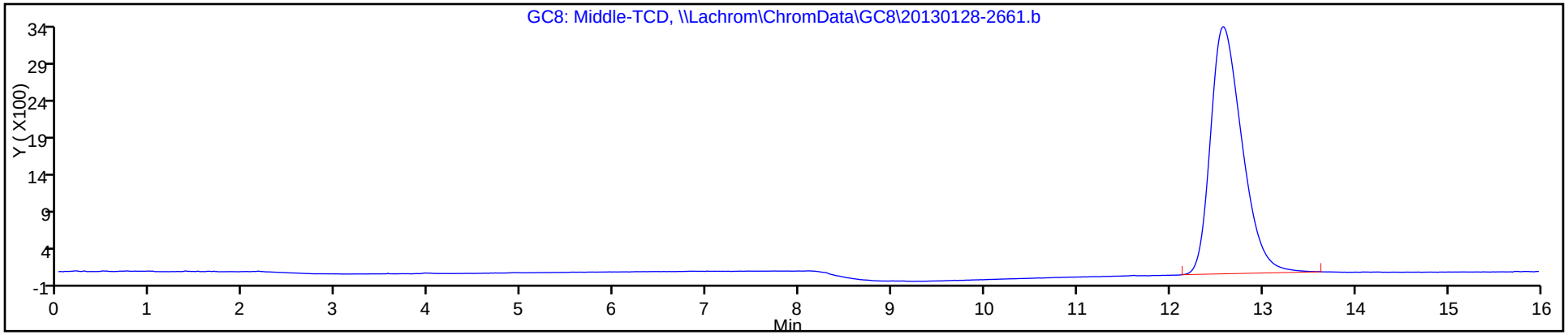
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-005 1-28-2013 11;46;10 am -1.d		
Injection Date:	28-Jan-2013 11:46:10	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

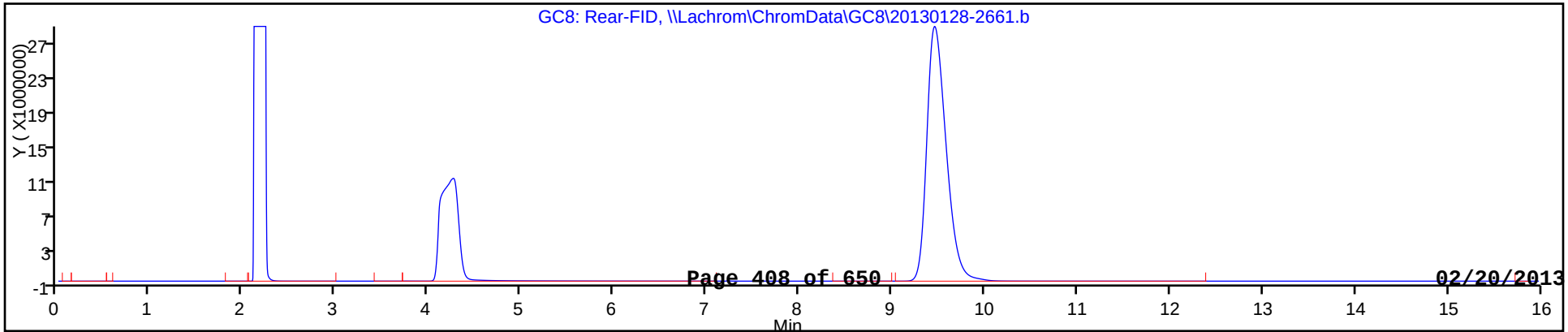
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 340-3877/7
Matrix: Air
Lab File ID: 340-0002661-007 1-28-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/28/2013 12:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: See SOP ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3877
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.446		0.010	0.0020
630-08-0	Carbon monoxide	0.0484		0.00091	0.00020
74-84-0	Ethane	0.0547		0.00050	0.00012
74-85-1	Ethene	0.0540		0.00050	0.00015
74-82-8	Methane (FID)	0.0530		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-007 1-28-2013 12;24;36 pm -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	28-Jan-2013 12:24:36	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002661-007		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	7
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

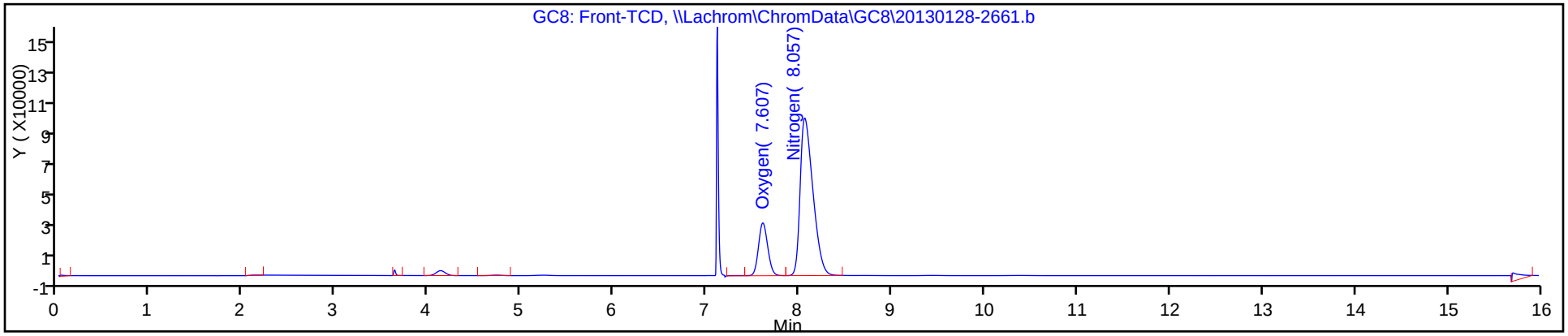
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17358016	4457.6	
5 Ethylene						
3	4.823	4.827	-0.004	4015384	539.9	
4 Ethane						
3	5.320	5.327	-0.007	3765684	546.8	
2 Oxygen						
1	7.607	7.537	0.070	229874	53339	
9 Nitrogen						
1	8.057	7.897	0.160	942727	205731	
11 CH4-FID						
3	9.523	9.527	-0.004	2027778	529.7	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1902400	483.5	

Report Date: 29-Jan-2013 11:19:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

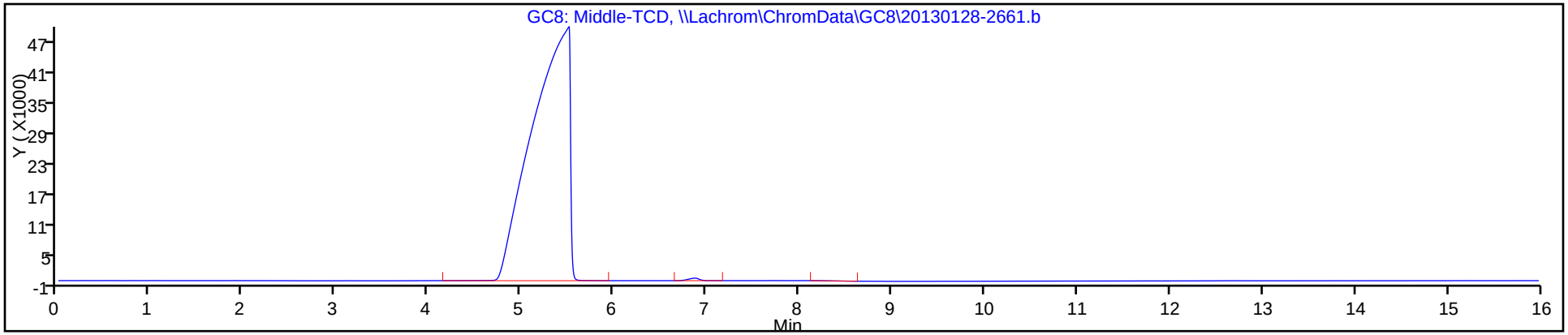
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-007 1-28-2013 12;24;36 pm -1.d		
Injection Date:	28-Jan-2013 12:24:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

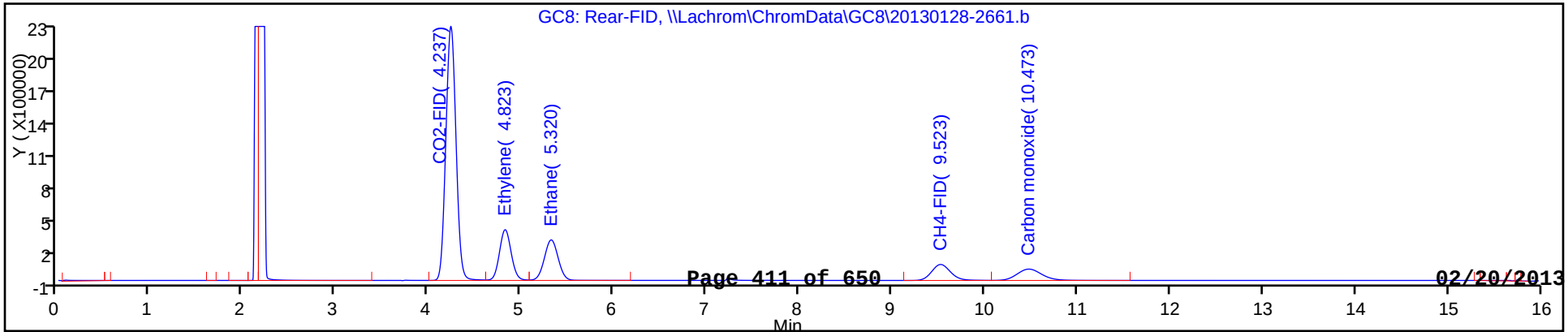
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 340-3877/7
Matrix: Air
Lab File ID: 340-0002661-007 1-28-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/28/2013 12:24
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3877
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	20.6		1.8	0.60
7782-44-7	Oxygen	5.33		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-007 1-28-2013 12;24;36 pm -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	28-Jan-2013 12:24:36	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002661-007		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3877	Lims Sample ID:	7
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130128-2661.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	29-Jan-2013 11:19:25	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK015		

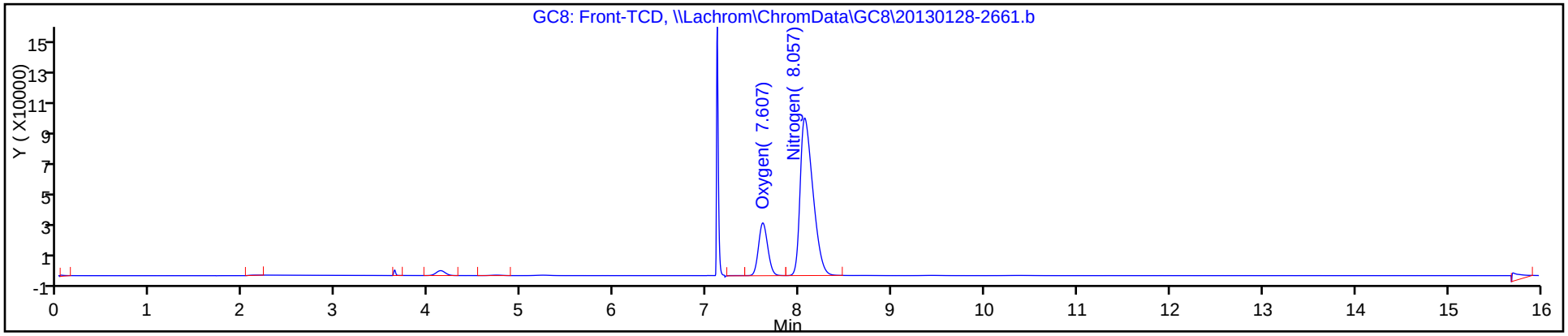
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17358016	4457.6	
5 Ethylene						
3	4.823	4.827	-0.004	4015384	539.9	
4 Ethane						
3	5.320	5.327	-0.007	3765684	546.8	
2 Oxygen						
1	7.607	7.537	0.070	229874	53339	
9 Nitrogen						
1	8.057	7.897	0.160	942727	205731	
11 CH4-FID						
3	9.523	9.527	-0.004	2027778	529.7	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1902400	483.5	

Report Date: 29-Jan-2013 11:19:30 Chrom Revision: 2.0 22-Oct-2012 16:30:48

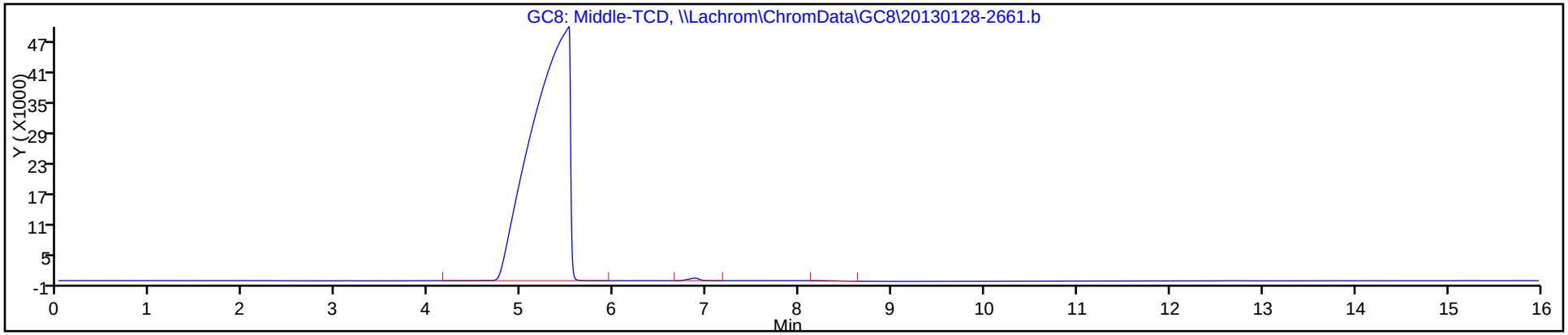
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130128-2661.b\340-0002661-007 1-28-2013 12;24;36 pm -1.d		
Injection Date:	28-Jan-2013 12:24:36	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3877	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

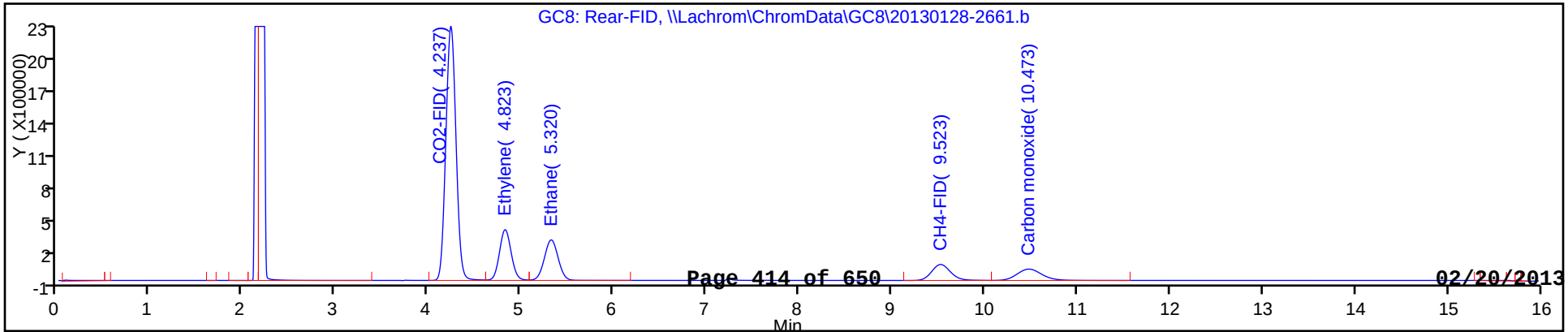
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa
Job No.: 340-5923-1
SDG No.:
Client Sample ID:
Lab Sample ID: LCSD 340-3886/5
Matrix: Air
Lab File ID: 340-0002667-005 1-29-2013
Analysis Method: D1946
Date Collected:
Sample wt/vol: 1(mL)
Date Analyzed: 01/29/2013 11:36
Soil Aliquot Vol:
Dilution Factor: 1
Soil Extract Vol.:
GC Column: ID:
% Moisture:
Level: (low/med) Low
Analysis Batch No.: 3886
Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (TCD)	9.29		0.010	0.0020
74-82-8	Methane (TCD)	10.2		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-005 1-29-2013 11;36;19 am -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	29-Jan-2013 11:36:19	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002667-005		
Misc. Info.:	24962; FGSPKTCDDIL_00002; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	5
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
13 CO2-TCD						
1	4.053	4.083	-0.030	526976	92944	
12 CH4-TCD						
1	9.367	9.397	-0.030	367153	102224	

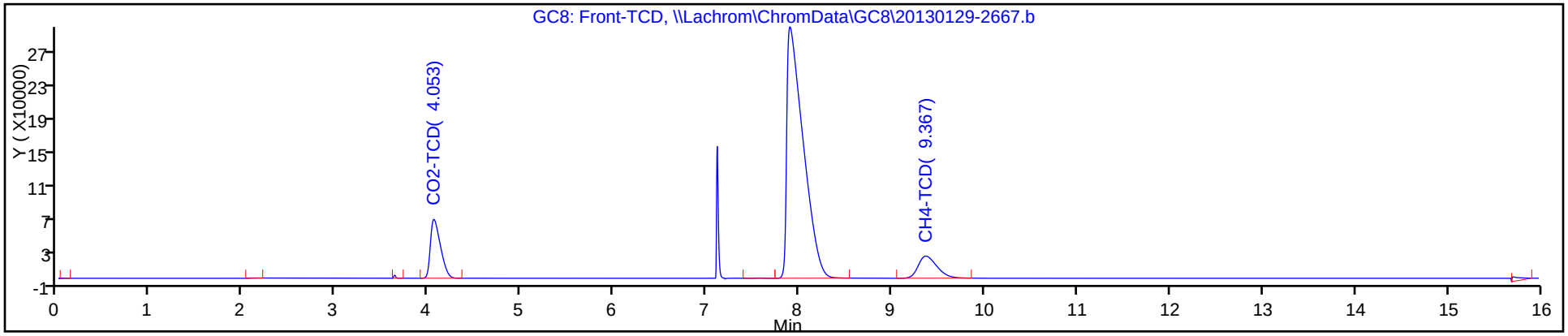
Report Date: 30-Jan-2013 10:09:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

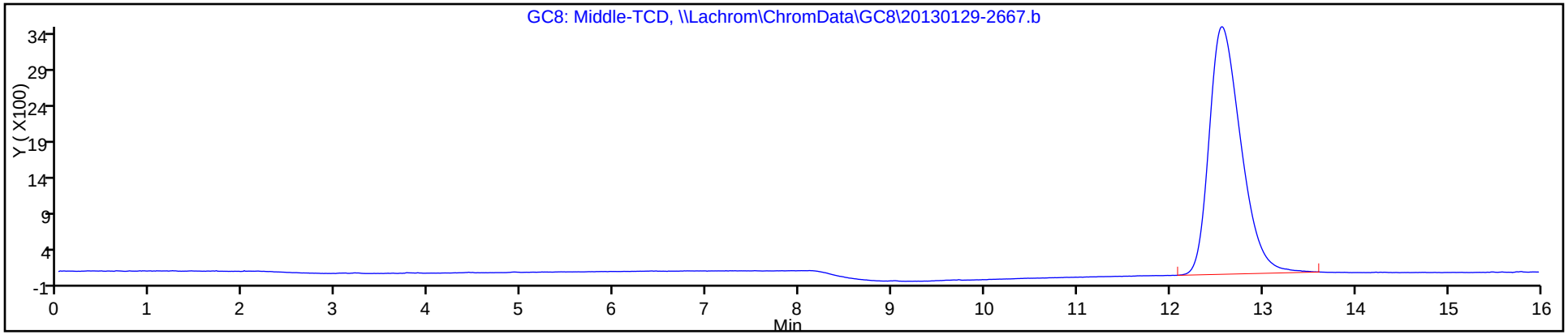
Data File: \\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-005 1-29-2013 11;36;19 am -1.d

Injection Date:	29-Jan-2013 11:36:19	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	5
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

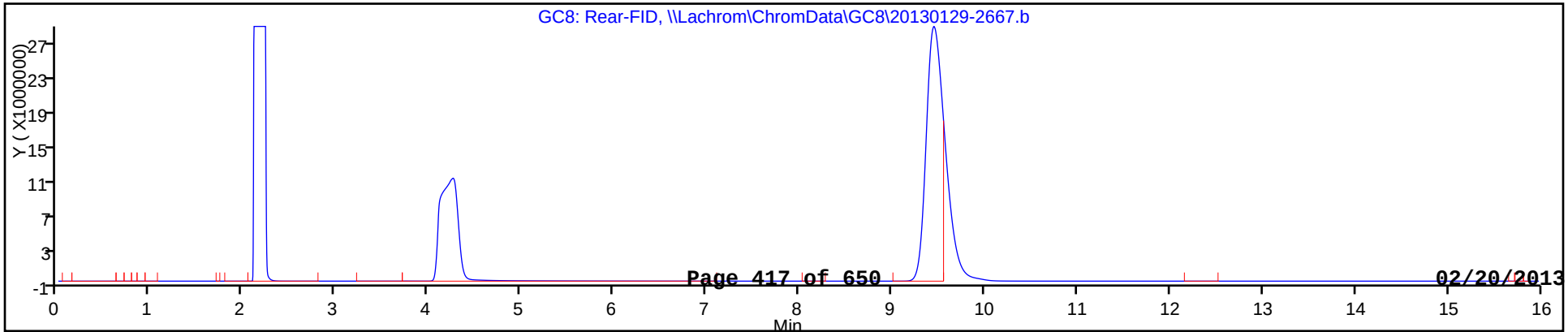
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 340-3886/7

Matrix: Air Lab File ID: 340-0002667-007 1-29-2013

Analysis Method: D1946 Date Collected:

Sample wt/vol: 1(mL) Date Analyzed: 01/29/2013 12:28

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 3886 Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
124-38-9	Carbon Dioxide (FID)	0.450		0.010	0.0020
630-08-0	Carbon monoxide	0.0487		0.00091	0.00020
74-84-0	Ethane	0.0554		0.00050	0.00012
74-85-1	Ethene	0.0549		0.00050	0.00015
74-82-8	Methane (FID)	0.0533		0.00040	0.00012

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-007 1-29-2013 12;28;48 pm -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	29-Jan-2013 12:28:48	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002667-007		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	7
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

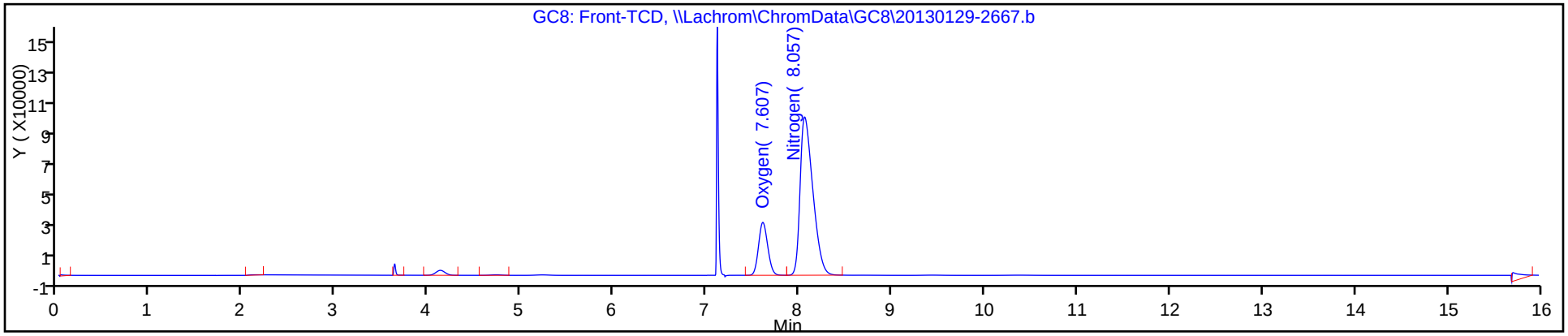
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17523411	4499.9	
5 Ethylene						
3	4.820	4.827	-0.007	4082398	548.9	
4 Ethane						
3	5.317	5.327	-0.010	3816043	554.1	
2 Oxygen						
1	7.607	7.533	0.074	229482	53247	
9 Nitrogen						
1	8.057	7.893	0.164	949039	207142	
11 CH4-FID						
3	9.523	9.527	-0.004	2040595	533.1	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1917142	487.3	

Report Date: 30-Jan-2013 10:09:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

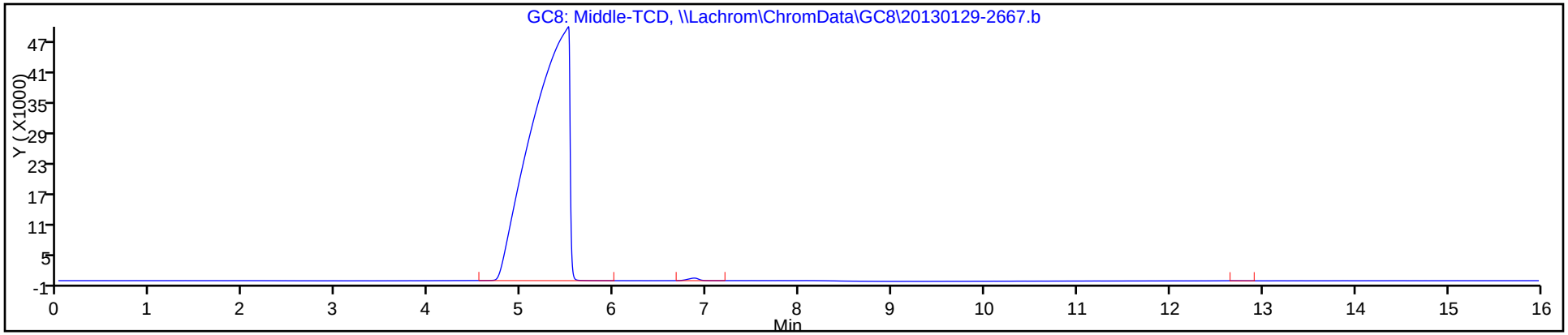
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-007 1-29-2013 12;28;48 pm -1.d		
Injection Date:	29-Jan-2013 12:28:48	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

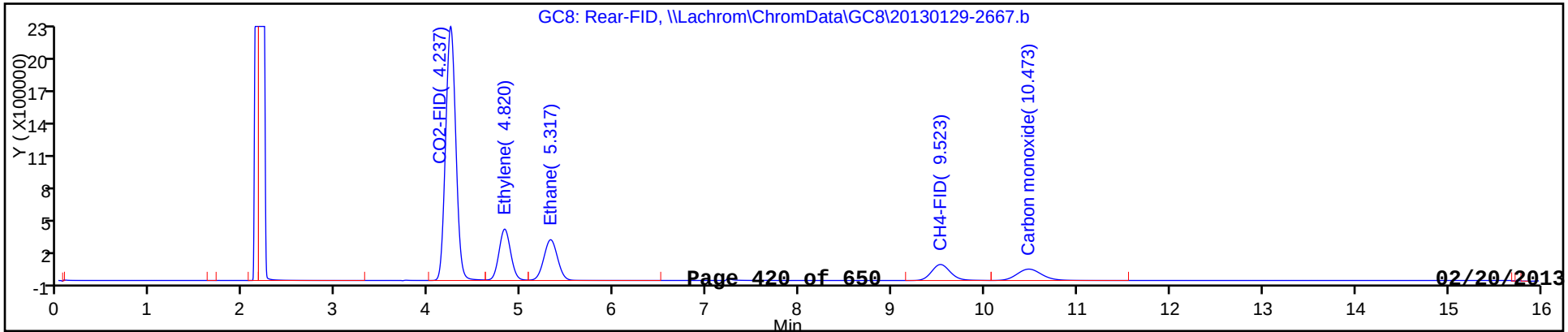
Y Scaling:



Y Scaling:



Y Scaling:



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 340-3886/7

Matrix: Air | Lab File ID: 340-0002667-007 1-29-2013

Analysis Method: D1946 | Date Collected:

Sample wt/vol: 1(mL) | Date Analyzed: 01/29/2013 12:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ID:

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

Analysis Batch No.: 3886 | Units: % v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
7727-37-9	Nitrogen	20.7		1.8	0.60
7782-44-7	Oxygen	5.32		0.20	0.050

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-007 1-29-2013 12;28;48 pm -1.d		
Lims ID:	LCSD	Client ID:	
Inject. Date:	29-Jan-2013 12:28:48	Dil. Factor:	1.0000
Sample Type:	LCSD		
Sample ID:	340-0002667-007		
Misc. Info.:	21548; GCFGLCS12_00003; EI		
Operator:	EI	Instrument ID:	GC8
Injection Vol:	1.0 mL	ALS Bottle#:	0
Lims Batch ID:	3886	Lims Sample ID:	7
Detector 1 :	GC8: Front-TCD		
Detector 2 :	GC8: Middle-TCD		
Detector 3 :	GC8: Rear-FID		
Method:	\\Lachrom\ChromData\GC8\20130129-2667.b\GC8D1946.m		
Method Label:	D1946 Sample Report		
Last Update:	30-Jan-2013 10:09:36	Calib Date:	29-Nov-2012 13:23:46
Quant Method:	External Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\GC8\20121129-2328.b\340-0002328-009 11-29-2012 1;23;46 pm-1.d		
Limit Group:	ASTM D-1946		
Integrator:	Falcon		
Column Type:		Column Dia:	
Process Host:	XAWRK023		

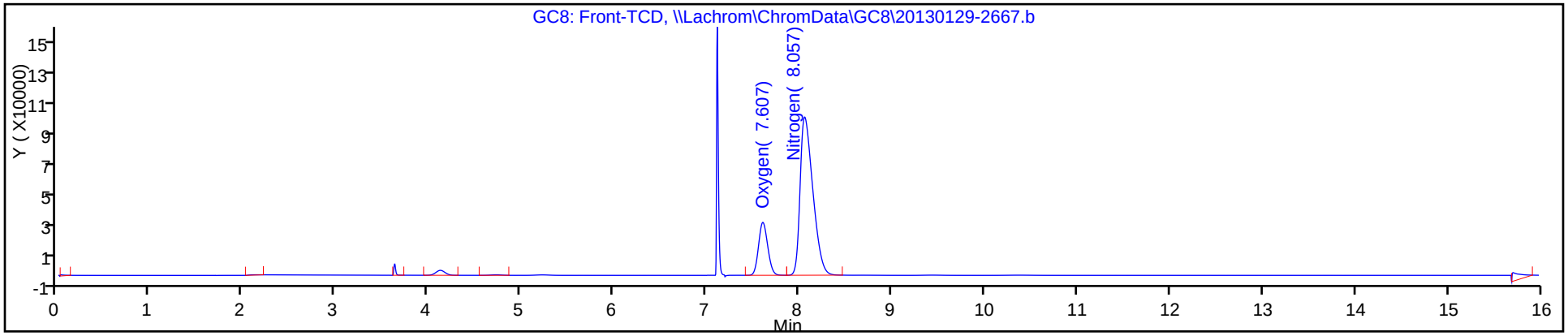
Det	RT	EXP RT	DLT RT	Response	On-Col Amt ppm v/v	Flags
14 CO2-FID						
3	4.237	4.237	0.000	17523411	4499.9	
5 Ethylene						
3	4.820	4.827	-0.007	4082398	548.9	
4 Ethane						
3	5.317	5.327	-0.010	3816043	554.1	
2 Oxygen						
1	7.607	7.533	0.074	229482	53247	
9 Nitrogen						
1	8.057	7.893	0.164	949039	207142	
11 CH4-FID						
3	9.523	9.527	-0.004	2040595	533.1	
7 Carbon monoxide						
3	10.473	10.477	-0.004	1917142	487.3	

Report Date: 30-Jan-2013 10:09:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

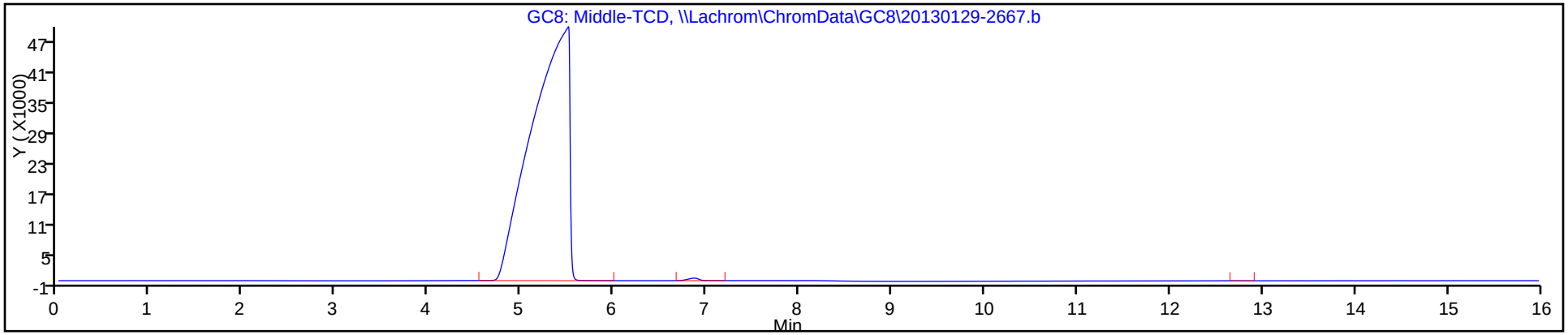
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\GC8\20130129-2667.b\340-0002667-007 1-29-2013 12;28;48 pm -1.d		
Injection Date:	29-Jan-2013 12:28:48	Limit Group:	ASTM D-1946
Client ID:		Instrument ID:	GC8
Lims Batch ID:	3886	Lims Sample ID:	7
Operator ID:	EI	Injection Vol:	1.0 mL
Column Type:		Column Dia:	

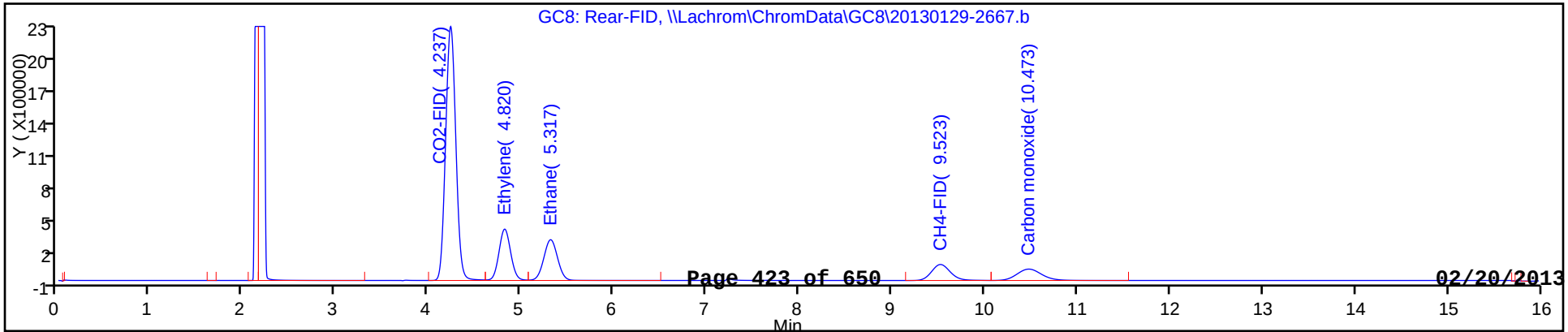
Y Scaling:



Y Scaling:



Y Scaling:



GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 08/08/2012 12:59

Analysis Batch Number: 2334 End Date: 08/08/2012 18:34

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 340-2334/2 IC		08/08/2012 12:59	1		See SOP
STD02 340-2334/3 IC		08/08/2012 13:18	1		See SOP
STD03 340-2334/4 IC		08/08/2012 13:43	1		See SOP
STD04 340-2334/5 IC		08/08/2012 14:01	1		See SOP
STD05 340-2334/6 IC		08/08/2012 14:21	1		See SOP
STD06 340-2334/7 IC		08/08/2012 14:43	1		See SOP
STD07 340-2334/8 IC		08/08/2012 15:01	1		See SOP
ZZZZZ		08/08/2012 15:23	1		See SOP
STD01 340-2334/10 IC		08/08/2012 16:18	1	340-0001636-010 8-8-2012 4;18;09 pm -1.d	See SOP
STD02 340-2334/11 IC		08/08/2012 16:35	1	340-0001636-011 8-8-2012 4;35;52 pm -1.d	See SOP
STD03 340-2334/12 IC		08/08/2012 16:56	1	340-0001636-012 8-8-2012 4;56;03 pm -1.d	See SOP
STD04 340-2334/13 IC		08/08/2012 17:15	1	340-0001636-013 8-8-2012 5;15;15 pm -1.d	See SOP
STD05 340-2334/14 IC		08/08/2012 17:33	1	340-0001636-014 8-8-2012 5;33;03 pm -1.d	See SOP
STD06 340-2334/15 IC		08/08/2012 17:51	1	340-0001636-015 8-8-2012 5;51;14 pm -1.d	See SOP
STD07 340-2334/16 IC		08/08/2012 18:10	1	340-0001636-016 8-8-2012 6;10;32 pm -1.d	See SOP
ZZZZZ		08/08/2012 18:34	1		See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 10/17/2012 12:07

Analysis Batch Number: 2990 End Date: 10/17/2012 14:27

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 340-2990/2 IC		10/17/2012 12:07	1	340-0002066-002 10-17-2012 12;07;53 pm -1.d	See SOP
STD02 340-2990/3 IC		10/17/2012 12:26	1	340-0002066-003 10-17-2012 12;26;10 pm -1.d	See SOP
STD03 340-2990/4 IC		10/17/2012 12:44	1	340-0002066-004 10-17-2012 12;44;55 pm -1.d	See SOP
STD04 340-2990/5 IC		10/17/2012 13:02	1	340-0002066-005 10-17-2012 1;02;50 pm -1.d	See SOP
STD05 340-2990/6 IC		10/17/2012 13:21	1	340-0002066-006 10-17-2012 1;21;57 pm -1.d	See SOP
STD06 340-2990/7 IC		10/17/2012 13:48	1	340-0002066-007 10-17-2012 1;48;01 pm -1.d	See SOP
STD07 340-2990/8 IC		10/17/2012 14:06	1	340-0002066-008 10-17-2012 2;06;39 pm -1.d	See SOP
ZZZZZ		10/17/2012 14:27	1		See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 11/14/2012 15:07

Analysis Batch Number: 3249 End Date: 11/14/2012 17:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 340-3249/1 IC		11/14/2012 15:07	1	340-0002244-001 11-14-2012 3;07;02 pm-1.d	See SOP
STD02 340-3249/2 IC		11/14/2012 15:25	1	340-0002244-002 11-14-2012 3;25;10 pm-1.d	See SOP
STD03 340-3249/3 IC		11/14/2012 15:43	1	340-0002244-003 11-14-2012 3;43;24 pm-1.d	See SOP
STD04 340-3249/4 IC		11/14/2012 16:03	1	340-0002244-004 11-14-2012 4;03;01 pm-1.d	See SOP
STD05 340-3249/5 IC		11/14/2012 16:20	1	340-0002244-005 11-14-2012 4;20;31 pm-1.d	See SOP
STD06 340-3249/6 ICRT		11/14/2012 16:39	1	340-0002244-006 11-14-2012 4;39;02 pm-1.d	See SOP
STD07 340-3249/7 IC		11/14/2012 16:58	1	340-0002244-007 11-14-2012 4;58;00 pm-1.d	See SOP
ICV 340-3249/8		11/14/2012 17:39	1	340-0002244-008 11-14-2012 5;39;27 pm-1.d	See SOP

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 11/29/2012 10:27

Analysis Batch Number: 3380 End Date: 11/29/2012 13:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD01 340-3380/1 IC		11/29/2012 10:27	1	340-0002328-001 11-29-2012 10;27;31 am-1.d	See SOP
STD02 340-3380/2 IC		11/29/2012 11:02	1	340-0002328-002 11-29-2012 11;02;27 am-1.d	See SOP
STD03 340-3380/3 IC		11/29/2012 11:25	1	340-0002328-003 11-29-2012 11;25;38 am-1.d	See SOP
STD04 340-3380/4 IC		11/29/2012 11:43	1	340-0002328-004 11-29-2012 11;43;30 am-1.d	See SOP
STD05 340-3380/5 IC		11/29/2012 12:03	1	340-0002328-005 11-29-2012 12;03;44 pm-1.d	See SOP
STD06 340-3380/6 IC		11/29/2012 12:24	1	340-0002328-006 11-29-2012 12;24;51 pm-1.d	See SOP
STD07 340-3380/7 IC		11/29/2012 12:48	1	340-0002328-007 11-29-2012 12;48;02 pm-1.d	See SOP
STD08 340-3380/8 IC		11/29/2012 13:05	1	340-0002328-008 11-29-2012 1;05;51 pm-1.d	See SOP
STD09 340-3380/9 IC		11/29/2012 13:23	1	340-0002328-009 11-29-2012 1;23;46 pm-1.d	See SOP
ICV 340-3380/10		11/29/2012 13:51	1	340-0002328-010 11-29-2012 1;51;38 pm-1.d	See SOP

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/28/2013 10:22

Analysis Batch Number: 3877 End Date: 01/28/2013 18:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 340-3877/1		01/28/2013 10:22	1	340-0002661-001 1-28-2013 10;22;30 am -1.d	See SOP
CCV 340-3877/2		01/28/2013 10:42	1	340-0002661-002 1-28-2013 10;42;34 am -1.d	See SOP
CCV 340-3877/3		01/28/2013 11:08	1	340-0002661-003 1-28-2013 11;08;45 am -1.d	See SOP
CCV 340-3877/3		01/28/2013 11:08	1	340-0002661-003 1-28-2013 11;08;45 am -1.d	See SOP
LCS 340-3877/4		01/28/2013 11:27	1	340-0002661-004 1-28-2013 11;27;45 am -1.d	See SOP
LCSD 340-3877/5		01/28/2013 11:46	1	340-0002661-005 1-28-2013 11;46;10 am -1.d	See SOP
LCS 340-3877/6		01/28/2013 12:05	1	340-0002661-006 1-28-2013 12;05;01 pm -1.d	See SOP
LCS 340-3877/6		01/28/2013 12:05	1	340-0002661-006 1-28-2013 12;05;01 pm -1.d	See SOP
LCSD 340-3877/7		01/28/2013 12:24	1	340-0002661-007 1-28-2013 12;24;36 pm -1.d	See SOP
LCSD 340-3877/7		01/28/2013 12:24	1	340-0002661-007 1-28-2013 12;24;36 pm -1.d	See SOP
MB 340-3877/8		01/28/2013 12:56	1	340-0002661-008 1-28-2013 12;56;32 pm -1.d	See SOP
MB 340-3877/8		01/28/2013 12:56	1	340-0002661-008 1-28-2013 12;56;32 pm -1.d	See SOP
ZZZZZ		01/28/2013 12:56	1		See SOP
LCS 340-3877/9		01/28/2013 13:16	1	340-0002661-009 1-28-2013 1;16;28 pm -1.d	See SOP
LCSD 340-3877/10		01/28/2013 13:35	1	340-0002661-010 1-28-2013 1;35;27 pm -1.d	See SOP
ZZZZZ		01/28/2013 14:05	1		See SOP
ZZZZZ		01/28/2013 14:05	1		See SOP
MB 340-3877/11		01/28/2013 14:05	1	340-0002661-011 1-28-2013 2;05;49 pm -1.d	See SOP
ZZZZZ		01/28/2013 14:28	2.07		See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/28/2013 10:22

Analysis Batch Number: 3877 End Date: 01/28/2013 18:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/28/2013 14:28	2.07		See SOP
ZZZZZ		01/28/2013 14:28	2.07		See SOP
ZZZZZ		01/28/2013 14:46	2.07		See SOP
ZZZZZ		01/28/2013 14:46	2.07		See SOP
ZZZZZ		01/28/2013 14:46	2.07		See SOP
ZZZZZ		01/28/2013 15:09	2.06		See SOP
ZZZZZ		01/28/2013 15:09	2.06		See SOP
ZZZZZ		01/28/2013 15:09	2.06		See SOP
ZZZZZ		01/28/2013 15:26	2.06		See SOP
ZZZZZ		01/28/2013 15:26	2.06		See SOP
ZZZZZ		01/28/2013 15:26	2.06		See SOP
340-5923-1	SVE-04	01/28/2013 15:49	2.23	340-0002661-016 1-28-2013 3;49;49 pm -1.d	See SOP
340-5923-1	SVE-04	01/28/2013 15:49	2.23	340-0002661-016 1-28-2013 3;49;49 pm -1.d	See SOP
340-5923-1	SVE-04	01/28/2013 15:49	2.23	340-0002661-016 1-28-2013 3;49;49 pm -1.d	See SOP
340-5923-2	1W-01D	01/28/2013 16:11	1.98	340-0002661-017 1-28-2013 4;11;42 pm -1.d	See SOP
340-5923-2	1W-01D	01/28/2013 16:11	1.98	340-0002661-017 1-28-2013 4;11;42 pm -1.d	See SOP
340-5923-2	1W-01D	01/28/2013 16:11	1.98	340-0002661-017 1-28-2013 4;11;42 pm -1.d	See SOP
340-5923-3	SVE-03	01/28/2013 16:30	2.35	340-0002661-018 1-28-2013 4;30;41 pm -1.d	See SOP
340-5923-3	SVE-03	01/28/2013 16:30	2.35	340-0002661-018 1-28-2013 4;30;41 pm -1.d	See SOP
340-5923-3	SVE-03	01/28/2013 16:30	2.35	340-0002661-018 1-28-2013 4;30;41 pm -1.d	See SOP
340-5923-4	SVE-02	01/28/2013 16:50	2.06	340-0002661-019 1-28-2013 4;50;09 pm -1.d	See SOP
340-5923-4	SVE-02	01/28/2013 16:50	2.06	340-0002661-019 1-28-2013 4;50;09 pm -1.d	See SOP
340-5923-4	SVE-02	01/28/2013 16:50	2.06	340-0002661-019 1-28-2013 4;50;09 pm -1.d	See SOP
340-5923-5	SVE-05	01/28/2013 17:08	2.08	340-0002661-020 1-28-2013 5;08;09 pm -1.d	See SOP
340-5923-5	SVE-05	01/28/2013 17:08	2.08	340-0002661-020 1-28-2013 5;08;09 pm -1.d	See SOP
340-5923-5	SVE-05	01/28/2013 17:08	2.08	340-0002661-020 1-28-2013 5;08;09 pm -1.d	See SOP
CCV 340-3877/21		01/28/2013 17:27	1	340-0002661-021 1-28-2013 5;27;30 pm -1.d	See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/28/2013 10:22

Analysis Batch Number: 3877 End Date: 01/28/2013 18:04

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 340-3877/22		01/28/2013 17:46	1	340-0002661-022 1-28-2013 5;46;12 pm -1.d	See SOP
CCV 340-3877/23		01/28/2013 18:04	1	340-0002661-023 1-28-2013 6;04;36 pm -1.d	See SOP
CCV 340-3877/23		01/28/2013 18:04	1	340-0002661-023 1-28-2013 6;04;36 pm -1.d	See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/29/2013 10:18

Analysis Batch Number: 3886 End Date: 01/29/2013 21:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 340-3886/1		01/29/2013 10:18	1	340-0002667-001 1-29-2013 10;18;35 am -1.d	See SOP
CCV 340-3886/2		01/29/2013 10:38	1	340-0002667-002 1-29-2013 10;38;35 am -1.d	See SOP
CCV 340-3886/3		01/29/2013 10:58	1	340-0002667-003 1-29-2013 10;58;05 am -1.d	See SOP
CCV 340-3886/3		01/29/2013 10:58	1	340-0002667-003 1-29-2013 10;58;05 am -1.d	See SOP
LCS 340-3886/4		01/29/2013 11:16	1	340-0002667-004 1-29-2013 11;16;12 am -1.d	See SOP
LCSD 340-3886/5		01/29/2013 11:36	1	340-0002667-005 1-29-2013 11;36;19 am -1.d	See SOP
LCS 340-3886/6		01/29/2013 11:56	1	340-0002667-006 1-29-2013 11;56;36 am -1.d	See SOP
LCS 340-3886/6		01/29/2013 11:56	1	340-0002667-006 1-29-2013 11;56;36 am -1.d	See SOP
LCSD 340-3886/7		01/29/2013 12:28	1	340-0002667-007 1-29-2013 12;28;48 pm -1.d	See SOP
LCSD 340-3886/7		01/29/2013 12:28	1	340-0002667-007 1-29-2013 12;28;48 pm -1.d	See SOP
MB 340-3886/8		01/29/2013 12:57	1	340-0002667-008 1-29-2013 12;57;17 pm -1.d	See SOP
MB 340-3886/8		01/29/2013 12:57	1	340-0002667-008 1-29-2013 12;57;17 pm -1.d	See SOP
ZZZZZ		01/29/2013 12:57	1		See SOP
LCS 340-3886/9		01/29/2013 13:16	1	340-0002667-009 1-29-2013 1;16;42 pm -1.d	See SOP
LCSD 340-3886/10		01/29/2013 13:37	1	340-0002667-010 1-29-2013 1;37;53 pm -1.d	See SOP
ZZZZZ		01/29/2013 14:03	1		See SOP
ZZZZZ		01/29/2013 14:03	1		See SOP
MB 340-3886/11		01/29/2013 14:03	1	340-0002667-011 1-29-2013 2;03;45 pm -1.d	See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/29/2013 10:18

Analysis Batch Number: 3886 End Date: 01/29/2013 21:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
340-5923-6	SVE-01-1	01/29/2013 14:36	1.82	340-0002667-012 1-29-2013 2;36;31 pm -1.d	See SOP
340-5923-6	SVE-01-1	01/29/2013 14:36	1.82	340-0002667-012 1-29-2013 2;36;31 pm -1.d	See SOP
340-5923-6	SVE-01-1	01/29/2013 14:36	1.82	340-0002667-012 1-29-2013 2;36;31 pm -1.d	See SOP
340-5923-7	SVE-01-2	01/29/2013 14:55	1.75	340-0002667-013 1-29-2013 2;55;10 pm -1.d	See SOP
340-5923-7	SVE-01-2	01/29/2013 14:55	1.75	340-0002667-013 1-29-2013 2;55;10 pm -1.d	See SOP
340-5923-7	SVE-01-2	01/29/2013 14:55	1.75	340-0002667-013 1-29-2013 2;55;10 pm -1.d	See SOP
340-5923-8	SVE-01-3	01/29/2013 15:13	1.84	340-0002667-014 1-29-2013 3;13;47 pm -1.d	See SOP
340-5923-8	SVE-01-3	01/29/2013 15:13	1.84	340-0002667-014 1-29-2013 3;13;47 pm -1.d	See SOP
340-5923-8	SVE-01-3	01/29/2013 15:13	1.84	340-0002667-014 1-29-2013 3;13;47 pm -1.d	See SOP
340-5923-9	SVE-01-4	01/29/2013 15:33	1.98	340-0002667-015 1-29-2013 3;33;09 pm -1.d	See SOP
340-5923-9	SVE-01-4	01/29/2013 15:33	1.98	340-0002667-015 1-29-2013 3;33;09 pm -1.d	See SOP
340-5923-9	SVE-01-4	01/29/2013 15:33	1.98	340-0002667-015 1-29-2013 3;33;09 pm -1.d	See SOP
340-5923-10	SVE-01-5	01/29/2013 15:52	1.83	340-0002667-016 1-29-2013 3;52;40 pm -1.d	See SOP
340-5923-10	SVE-01-5	01/29/2013 15:52	1.83	340-0002667-016 1-29-2013 3;52;40 pm -1.d	See SOP
340-5923-10	SVE-01-5	01/29/2013 15:52	1.83	340-0002667-016 1-29-2013 3;52;40 pm -1.d	See SOP
ZZZZZ		01/29/2013 16:21	2.08		See SOP
ZZZZZ		01/29/2013 16:21	2.08		See SOP
ZZZZZ		01/29/2013 16:21	2.08		See SOP
ZZZZZ		01/29/2013 16:40	1.95		See SOP
ZZZZZ		01/29/2013 16:40	1.95		See SOP
ZZZZZ		01/29/2013 16:40	1.95		See SOP
ZZZZZ		01/29/2013 17:01	2.07		See SOP
ZZZZZ		01/29/2013 17:01	2.07		See SOP
ZZZZZ		01/29/2013 17:01	2.07		See SOP
ZZZZZ		01/29/2013 17:27	1.93		See SOP
ZZZZZ		01/29/2013 17:27	1.93		See SOP
ZZZZZ		01/29/2013 17:27	1.93		See SOP
ZZZZZ		01/29/2013 17:49	1.92		See SOP

D1946

GC VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: GC8 Start Date: 01/29/2013 10:18

Analysis Batch Number: 3886 End Date: 01/29/2013 21:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/29/2013 17:49	1.92		See SOP
ZZZZZ		01/29/2013 17:49	1.92		See SOP
ZZZZZ		01/29/2013 18:20	1.83		See SOP
ZZZZZ		01/29/2013 18:20	1.83		See SOP
ZZZZZ		01/29/2013 18:20	1.83		See SOP
ZZZZZ		01/29/2013 18:46	2		See SOP
ZZZZZ		01/29/2013 18:46	2		See SOP
ZZZZZ		01/29/2013 18:46	2		See SOP
ZZZZZ		01/29/2013 19:06	1.88		See SOP
ZZZZZ		01/29/2013 19:06	1.88		See SOP
ZZZZZ		01/29/2013 19:06	1.88		See SOP
ZZZZZ		01/29/2013 19:23	1.68		See SOP
ZZZZZ		01/29/2013 19:23	1.68		See SOP
ZZZZZ		01/29/2013 19:23	1.68		See SOP
ZZZZZ		01/29/2013 19:40	1.83		See SOP
ZZZZZ		01/29/2013 19:40	1.83		See SOP
ZZZZZ		01/29/2013 19:40	1.83		See SOP
ZZZZZ		01/29/2013 19:57	1.98		See SOP
ZZZZZ		01/29/2013 19:57	1.98		See SOP
ZZZZZ		01/29/2013 19:57	1.98		See SOP
CCV 340-3886/28		01/29/2013 20:26	1	340-0002667-028 1-29-2013 8;26;27 pm -1.d	See SOP
CCV 340-3886/29		01/29/2013 21:31	1	340-0002667-029 1-29-2013 9;31;37 pm -1.d	See SOP
CCV 340-3886/30		01/29/2013 21:48	1	340-0002667-030 1-29-2013 9;48;39 pm -1.d	See SOP
CCV 340-3886/30		01/29/2013 21:48	1	340-0002667-030 1-29-2013 9;48;39 pm -1.d	See SOP

D1946

Method TO15 MOD

Volatile Organic Compounds (GC/MS) by Method TO15 Modified

FORM II
AIR - GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low

GC Column (1): See SOP ID:

Client Sample ID	Lab Sample ID	DCA #	TOL #	BFB #
SVE-04	340-5923-1	91	101	97
1W-01D	340-5923-2	97	100	101
SVE-03	340-5923-3	124	100	99
SVE-02	340-5923-4	107	100	102
SVE-05	340-5923-5	118	99	101
SVE-01-1	340-5923-6	116	100	99
SVE-01-2	340-5923-7	118	101	100
SVE-01-3	340-5923-8	115	98	98
SVE-01-4	340-5923-9	94	103	101
SVE-01-5	340-5923-10	100	101	100
	MB 340-4057/16	98	100	99
	LCS 340-4057/1002	78	104	101
	LCSD 340-4057/15	82	101	98

	QC LIMITS
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
TOL = Toluene-d8 (Surr)	70-130
BFB = 4-Bromofluorobenzene (Surr)	70-130

Column to be used to flag recovery values

FORM II TO-15 MOD

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC02143-LCS.d

Lab ID: LCS 340-4057/1002 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Benzene	50.0	51.5	103	70-130	
Chloroform	50.0	54.3	109	70-130	
1,1-Dichloroethene	50.0	54.7	109	70-130	
cis-1,2-Dichloroethene	50.0	58.9	118	70-130	
trans-1,2-Dichloroethene	50.0	55.7	111	70-130	
Methyl-t-Butyl Ether (MTBE)	50.0	54.0	108	70-130	
Tetrachloroethene	50.0	52.2	104	70-130	
Toluene	50.0	59.3	119	70-130	
Trichloroethene	50.0	57.6	115	70-130	
Vinyl chloride	50.0	53.2	106	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15 MOD

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC02144.D

Lab ID: LCSD 340-4057/15 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCSD CONCENTRATION (ppb v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Benzene	50.0	51.2	102	1	25	70-130	
Chloroform	50.0	53.8	108	1	25	70-130	
1,1-Dichloroethene	50.0	55.6	111	2	25	70-130	
cis-1,2-Dichloroethene	50.0	59.4	119	1	25	70-130	
trans-1,2-Dichloroethene	50.0	55.3	111	1	25	70-130	
Methyl-t-Butyl Ether (MTBE)	50.0	53.8	108	0	25	70-130	
Tetrachloroethene	50.0	51.8	104	1	25	70-130	
Toluene	50.0	58.8	118	1	25	70-130	
Trichloroethene	50.0	56.9	114	1	25	70-130	
Vinyl chloride	50.0	52.3	105	2	25	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15 MOD

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab File ID: MB02143M.D Lab Sample ID: MB 340-4057/16

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MSB Date Analyzed: 02/14/2013 19:03

GC Column: See SOP ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 340-4057/1002	LC02143-LCS .d	02/14/2013 17:42
	LCSD 340-4057/15	LC02144.D	02/14/2013 18:22
SVE-04	340-5923-1	B9703.D	02/14/2013 19:57
1W-01D	340-5923-2	B9704.D	02/14/2013 20:35
SVE-03	340-5923-3	B9705.D	02/14/2013 21:16
SVE-02	340-5923-4	B9706.D	02/14/2013 21:56
SVE-05	340-5923-5	B9707.D	02/14/2013 22:37
SVE-01-1	340-5923-6	B9708.D	02/14/2013 23:17
SVE-01-2	340-5923-7	B9709.D	02/14/2013 23:57
SVE-01-3	340-5923-8	B9710.D	02/15/2013 00:37
SVE-01-4	340-5923-9	B9711.D	02/15/2013 01:18
SVE-01-5	340-5923-10	B9712.D	02/15/2013 01:58

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab File ID: BF02141.D BFB Injection Date: 02/14/2013

Instrument ID: MSB BFB Injection Time: 09:03

Analysis Batch No.: 4057

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	16.9	
75	30.0 - 66.0% of mass 95	43.6	
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 - 120.0% of mass 95	93.2	
175	4.0 - 9.0 % of mass 174	6.9	(7.4)1
176	93.0 - 101.0% of mass 174	91.0	(97.6)1
177	5.0 - 9.0% of mass 176	5.7	(6.2)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
	IC 340-4057/3	IC02141.D	02/14/2013	10:05
	IC 340-4057/4	IC02142.D	02/14/2013	10:46
	IC 340-4057/5	IC02143.D	02/14/2013	11:27
	IC 340-4057/6	IC02144.D	02/14/2013	12:04
	ICIS 340-4057/7	IC02145.D	02/14/2013	12:44
	IC 340-4057/8	IC02146.D	02/14/2013	13:25
	IC 340-4057/9	IC02147.D	02/14/2013	14:06
	IC 340-4057/10	IC02148.D	02/14/2013	14:46
	ICV 340-4057/14	LC02143.D	02/14/2013	17:42
	LCSD 340-4057/15	LC02144.D	02/14/2013	18:22
	MB 340-4057/16	MB02143M.D	02/14/2013	19:03
SVE-04	340-5923-1	B9703.D	02/14/2013	19:57
1W-01D	340-5923-2	B9704.D	02/14/2013	20:35
SVE-03	340-5923-3	B9705.D	02/14/2013	21:16
SVE-02	340-5923-4	B9706.D	02/14/2013	21:56
SVE-05	340-5923-5	B9707.D	02/14/2013	22:37
SVE-01-1	340-5923-6	B9708.D	02/14/2013	23:17
SVE-01-2	340-5923-7	B9709.D	02/14/2013	23:57
SVE-01-3	340-5923-8	B9710.D	02/15/2013	00:37
SVE-01-4	340-5923-9	B9711.D	02/15/2013	01:18
SVE-01-5	340-5923-10	B9712.D	02/15/2013	01:58

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

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Sample No.: ICIS 340-4057/7 Date Analyzed: 02/14/2013 12:44

Instrument ID: MSB GC Column: See SOP ID:

Lab File ID (Standard): IC02145.D Heated Purge: (Y/N) N

Calibration ID: 856

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		690507	9.06	2289017	10.90	1808510	16.23
UPPER LIMIT		966710	9.39	3204624	11.23	2531914	16.56
LOWER LIMIT		414304	8.73	1373410	10.57	1085106	15.90
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 340-4057/14		673872	9.07	2304475	10.90	1858326	16.22
LCS 340-4057/1002		673872	9.07	2304475	10.90	1858326	16.22
LCSD 340-4057/15		661187	9.07	2370254	10.91	1873187	16.23
MB 340-4057/16		705261	8.94	2375665	10.82	1931975	16.22
340-5923-1	SVE-04	750506	8.91	2409068	10.79	1954302	16.18
340-5923-2	1W-01D	671063	9.04	2395028	10.88	1917790	16.21
340-5923-3	SVE-03	485615	9.03	2393176	10.88	1899252	16.22
340-5923-4	SVE-02	535011	9.02	2339200	10.87	1841956	16.20
340-5923-5	SVE-05	499368	9.04	2371997	10.88	1868597	16.20
340-5923-6	SVE-01-1	483512	9.03	2310025	10.87	1901095	16.20
340-5923-7	SVE-01-2	472878	9.04	2278864	10.87	1884210	16.20
340-5923-8	SVE-01-3	484674	9.03	2298375	10.86	1885916	16.21
340-5923-9	SVE-01-4	460085	9.03	2293561	10.86	1861337	16.20
340-5923-10	SVE-01-5	449827	9.04	2256248	10.88	1836102	16.20

CBM = Bromochloromethane (IS)
DFB = 1.4-Difluorobenzene (IS)
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15 MOD

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-04 | Lab Sample ID: 340-5923-1

Matrix: Air | Lab File ID: B9703.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 10:05

Sample wt/vol: 350(mL) | Date Analyzed: 02/14/2013 19:57

Soil Aliquot Vol: | Dilution Factor: 3.72

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		15	3.7
67-66-3	Chloroform	119.38	ND		15	3.7
75-35-4	1,1-Dichloroethene	96.94	ND		15	3.7
156-59-2	cis-1,2-Dichloroethene	96.94	31		15	3.7
156-60-5	trans-1,2-Dichloroethene	96.94	ND		15	3.7
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		15	3.7
127-18-4	Tetrachloroethene	165.83	700		15	3.7
108-88-3	Toluene	92.14	4.2	J	15	3.7
79-01-6	Trichloroethene	131.39	26		15	3.7
75-01-4	Vinyl chloride	62.50	ND		15	3.7

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-04 | Lab Sample ID: 340-5923-1

Matrix: Air | Lab File ID: B9703.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 10:05

Sample wt/vol: 350(mL) | Date Analyzed: 02/14/2013 19:57

Soil Aliquot Vol: | Dilution Factor: 3.72

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		48	12
67-66-3	Chloroform	119.38	ND		73	18
75-35-4	1,1-Dichloroethene	96.94	ND		59	15
156-59-2	cis-1,2-Dichloroethene	96.94	120		59	15
156-60-5	trans-1,2-Dichloroethene	96.94	ND		59	15
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		54	13
127-18-4	Tetrachloroethene	165.83	4700		100	25
108-88-3	Toluene	92.14	16	J	56	14
79-01-6	Trichloroethene	131.39	140		80	20
75-01-4	Vinyl chloride	62.50	ND		38	9.5

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	97		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Lims ID:	340-5923-A-1	Client ID:	SVE-04
Inject. Date:	14-Feb-2013 19:57:30	Dil. Factor:	3.7200
Sample Type:	Client		
Sample ID:	340-5923-A-1		
Misc. Info.:	340-0002766-017		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	11
Lims Batch ID:	4057	Lims Sample ID:	17
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 21:22:47	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

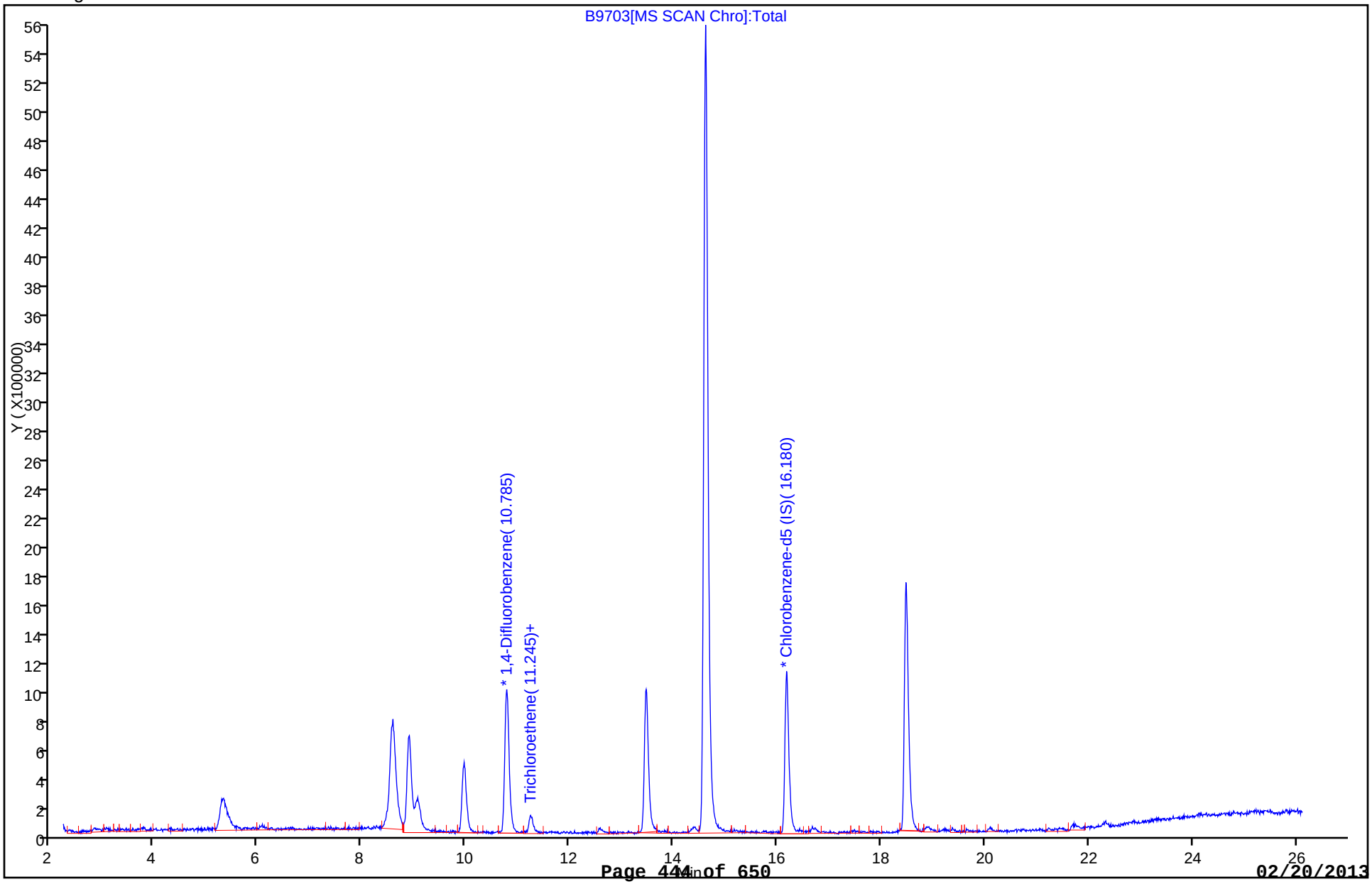
First Level Reviewer: donga Date: 14-Feb-2013 20:51:05

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.466	8.635	-0.169	82	96382	8.40	
* 56 Chlorobromomethane (IS)	130	8.908	9.059	-0.151	89	750506	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	9.964	10.088	-0.124	0	777534	45.6	
* 73 1,4-Difluorobenzene	114	10.785	10.900	-0.115	91	2409068	50.0	
74 Trichloroethene	130	11.236	11.360	-0.124	85	124063	7.01	
$ 85 Toluene-d8 (Surr)	100	13.465	13.543	-0.078	97	1292393	50.5	
87 Toluene	91	13.609	13.661	-0.052	48	33221	1.14	
96 Tetrachloroethene	166	14.619	14.689	-0.070	98	6062014	187.3	
* 102 Chlorobenzene-d5 (IS)	117	16.180	16.232	-0.052	88	1954302	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.481	18.515	-0.034	91	2059658	48.6	

Report Date: 14-Feb-2013 21:23:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Injection Date:	14-Feb-2013 19:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-04	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	17
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

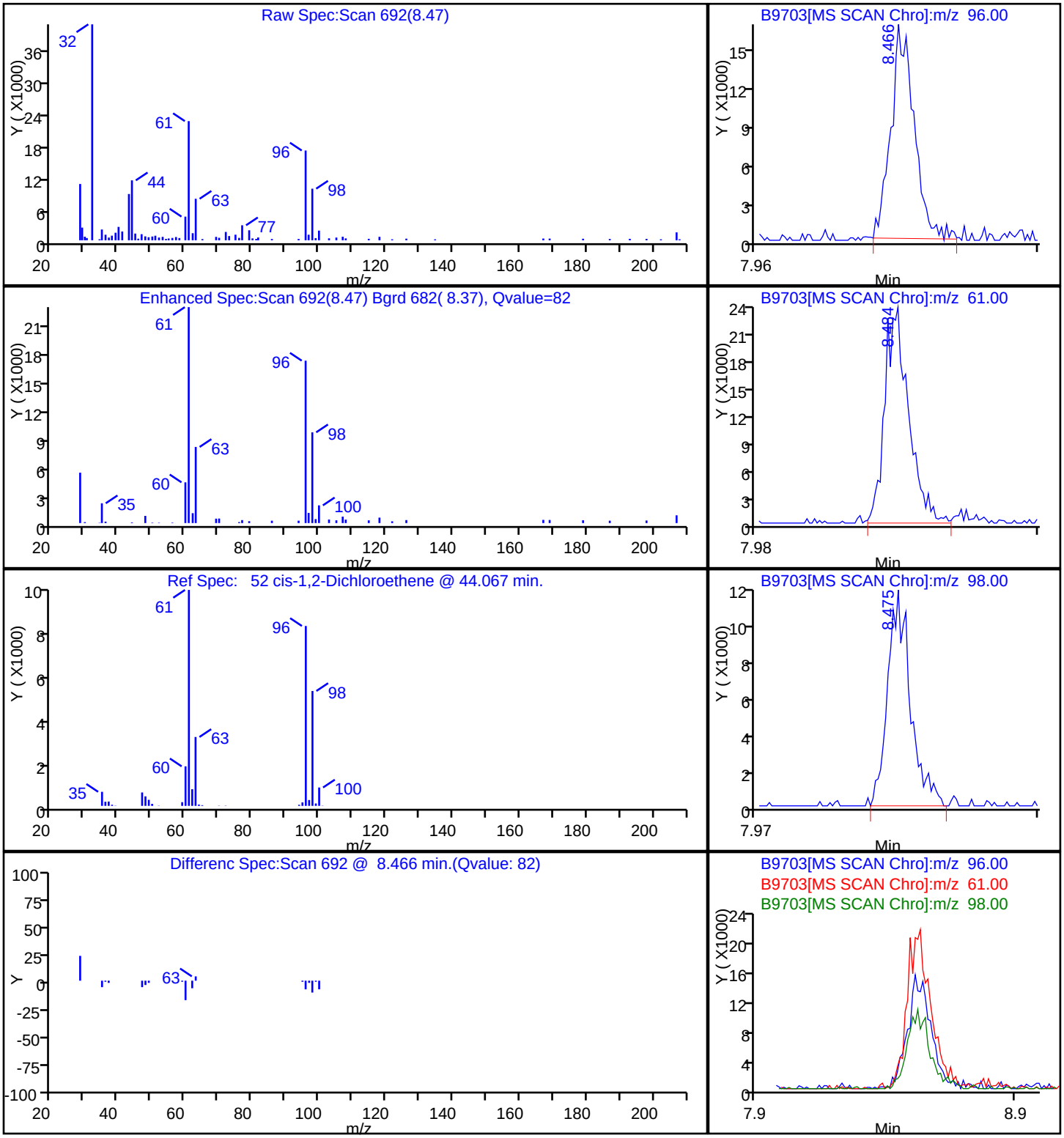


Report Date: 14-Feb-2013 21:23:01 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Injection Date:	14-Feb-2013 19:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-04	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	17
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

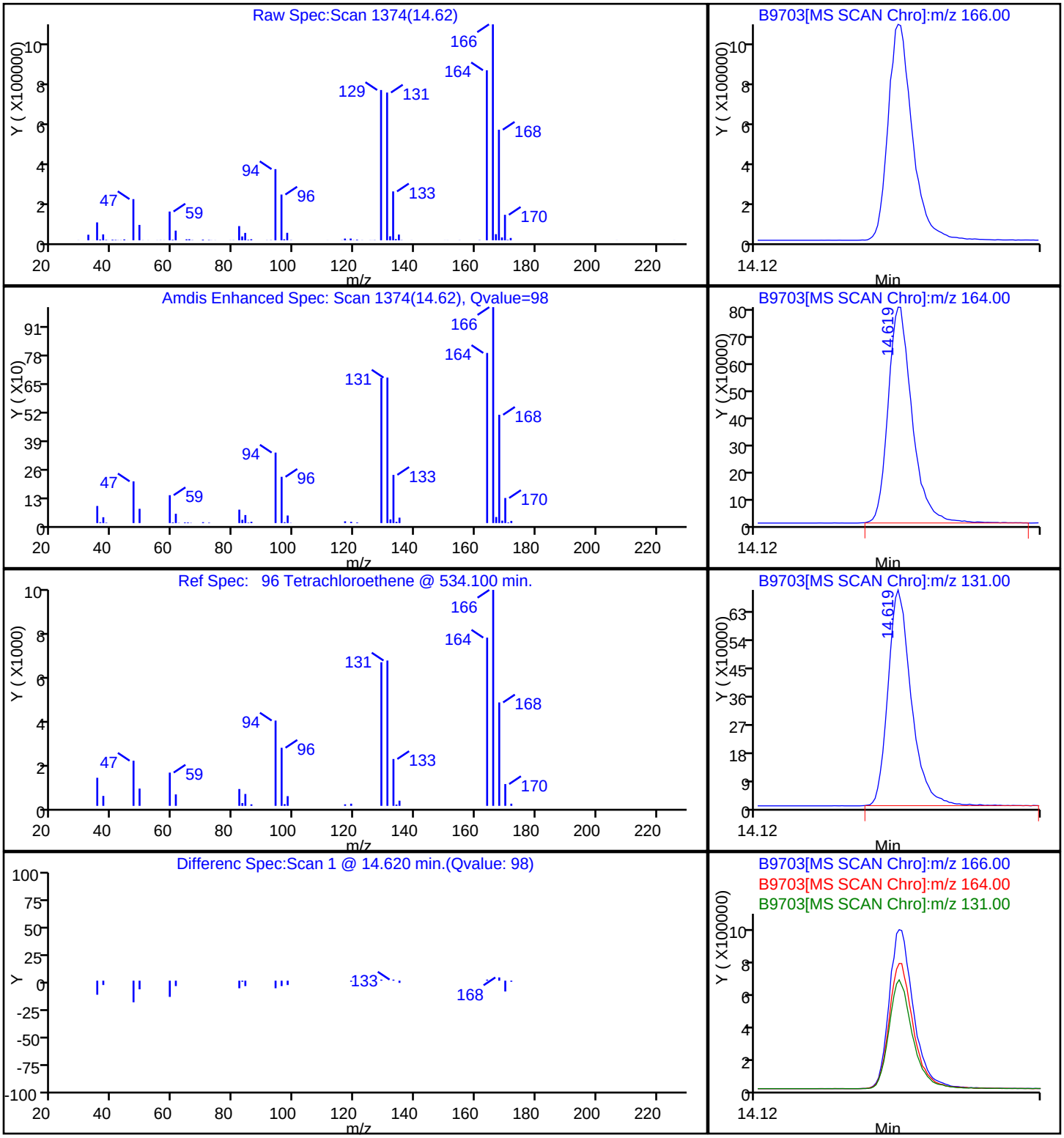


Report Date: 14-Feb-2013 21:23:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Injection Date:	14-Feb-2013 19:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-04	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	17
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

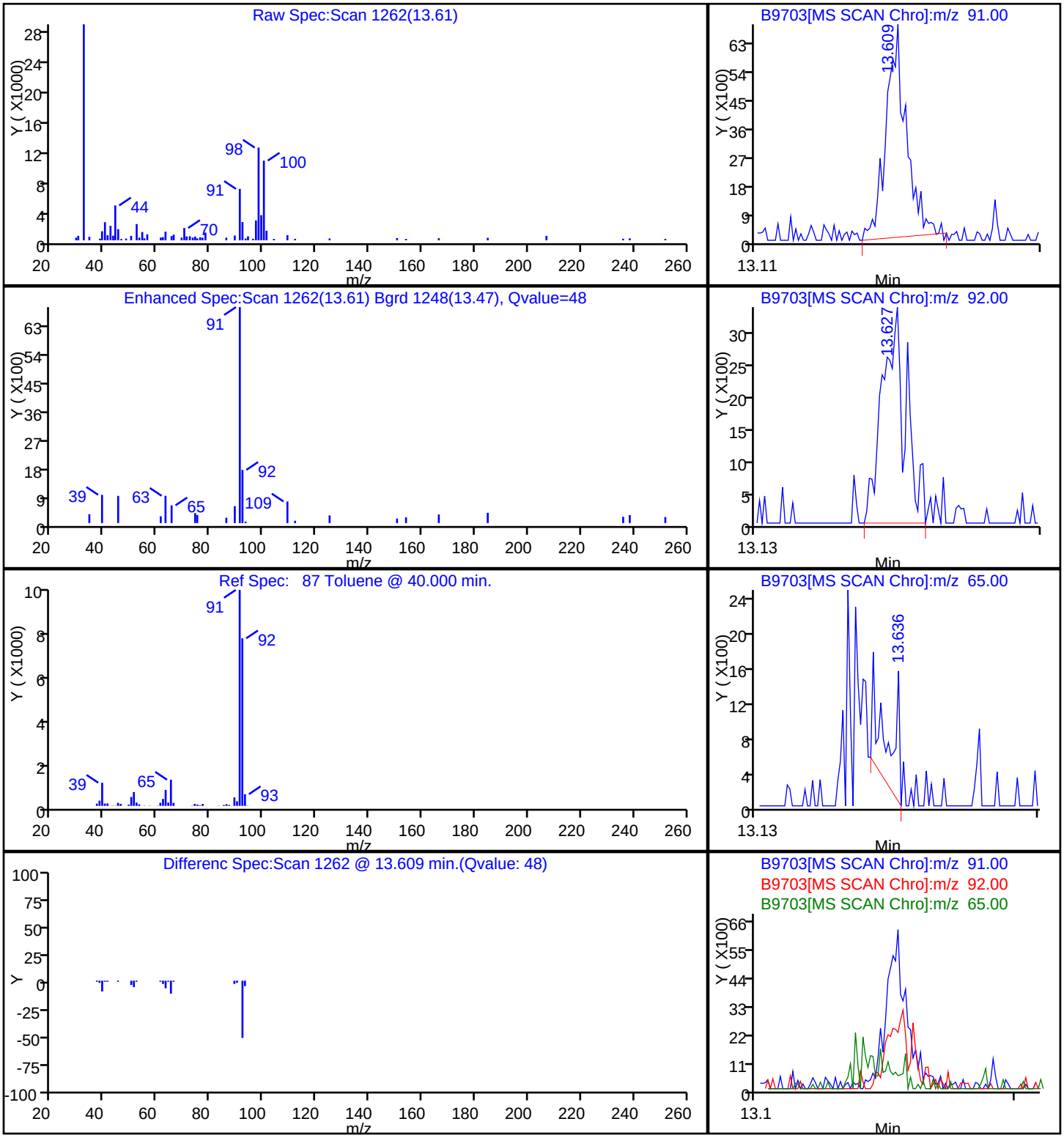


Report Date: 14-Feb-2013 21:23:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Injection Date:	14-Feb-2013 19:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-04	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	17
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

87 Toluene

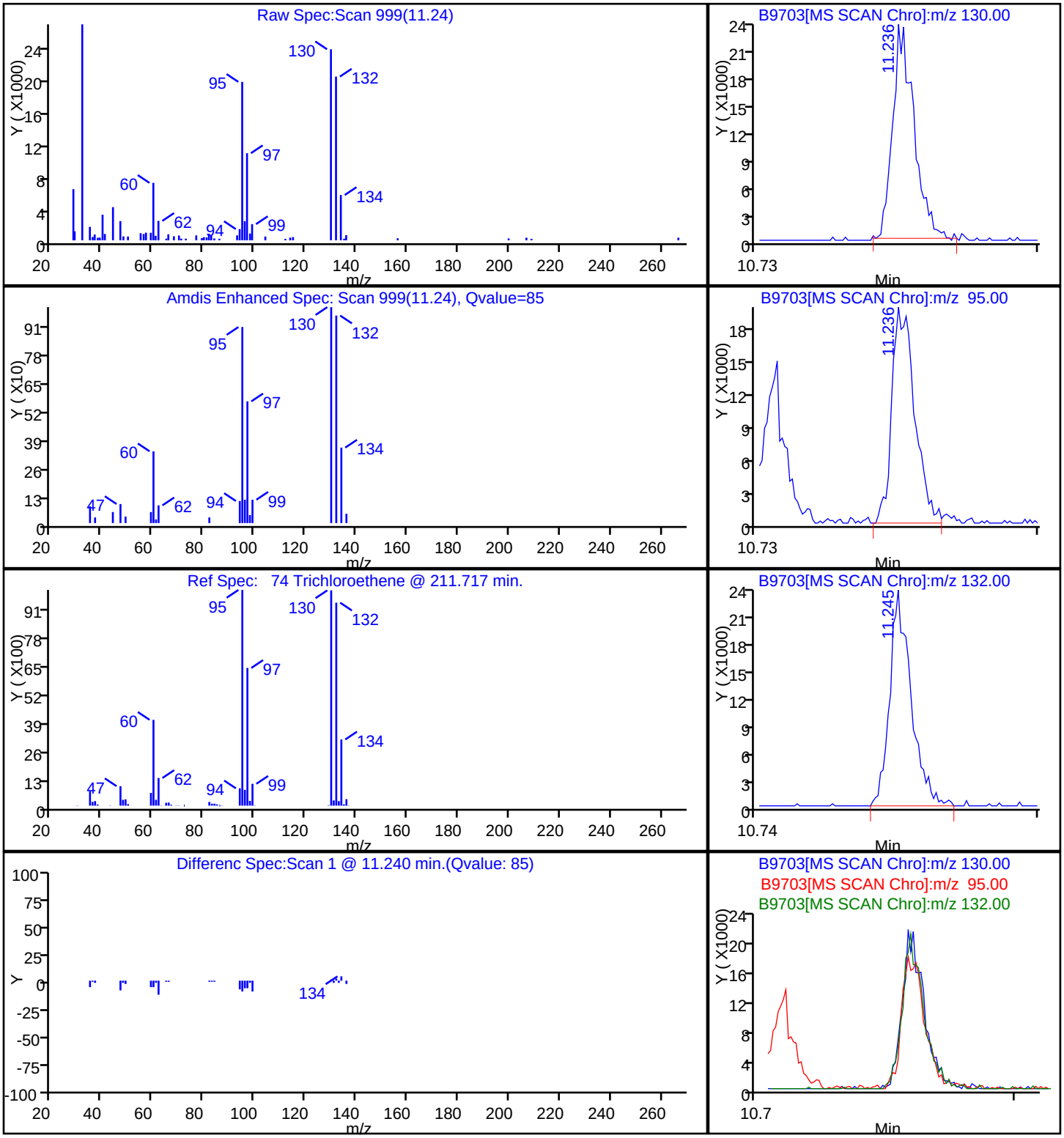


Report Date: 14-Feb-2013 21:23:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9703.D		
Injection Date:	14-Feb-2013 19:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-04	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	17
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: 1W-01D | Lab Sample ID: 340-5923-2

Matrix: Air | Lab File ID: B9704.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 14:25

Sample wt/vol: 200(mL) | Date Analyzed: 02/14/2013 20:35

Soil Aliquot Vol: | Dilution Factor: 4.96

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		20	5.0
67-66-3	Chloroform	119.38	ND		20	5.0
75-35-4	1,1-Dichloroethene	96.94	ND		20	5.0
156-59-2	cis-1,2-Dichloroethene	96.94	120		20	5.0
156-60-5	trans-1,2-Dichloroethene	96.94	ND		20	5.0
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		20	5.0
127-18-4	Tetrachloroethene	165.83	1100		20	5.0
108-88-3	Toluene	92.14	10	J	20	5.0
79-01-6	Trichloroethene	131.39	61		20	5.0
75-01-4	Vinyl chloride	62.50	ND		20	5.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: 1W-01D | Lab Sample ID: 340-5923-2

Matrix: Air | Lab File ID: B9704.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 14:25

Sample wt/vol: 200(mL) | Date Analyzed: 02/14/2013 20:35

Soil Aliquot Vol: | Dilution Factor: 4.96

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		63	16
67-66-3	Chloroform	119.38	ND		97	24
75-35-4	1,1-Dichloroethene	96.94	ND		79	20
156-59-2	cis-1,2-Dichloroethene	96.94	490		79	20
156-60-5	trans-1,2-Dichloroethene	96.94	ND		79	20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		72	18
127-18-4	Tetrachloroethene	165.83	7600		130	34
108-88-3	Toluene	92.14	38	J	75	19
79-01-6	Trichloroethene	131.39	330		110	27
75-01-4	Vinyl chloride	62.50	ND		51	13

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Lims ID:	340-5923-A-2	Client ID:	1W-01D
Inject. Date:	14-Feb-2013 20:35:30	Dil. Factor:	4.9600
Sample Type:	Client		
Sample ID:	340-5923-A-2		
Misc. Info.:	340-0002766-018		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	12
Lims Batch ID:	4057	Lims Sample ID:	18
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 21:22:47	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

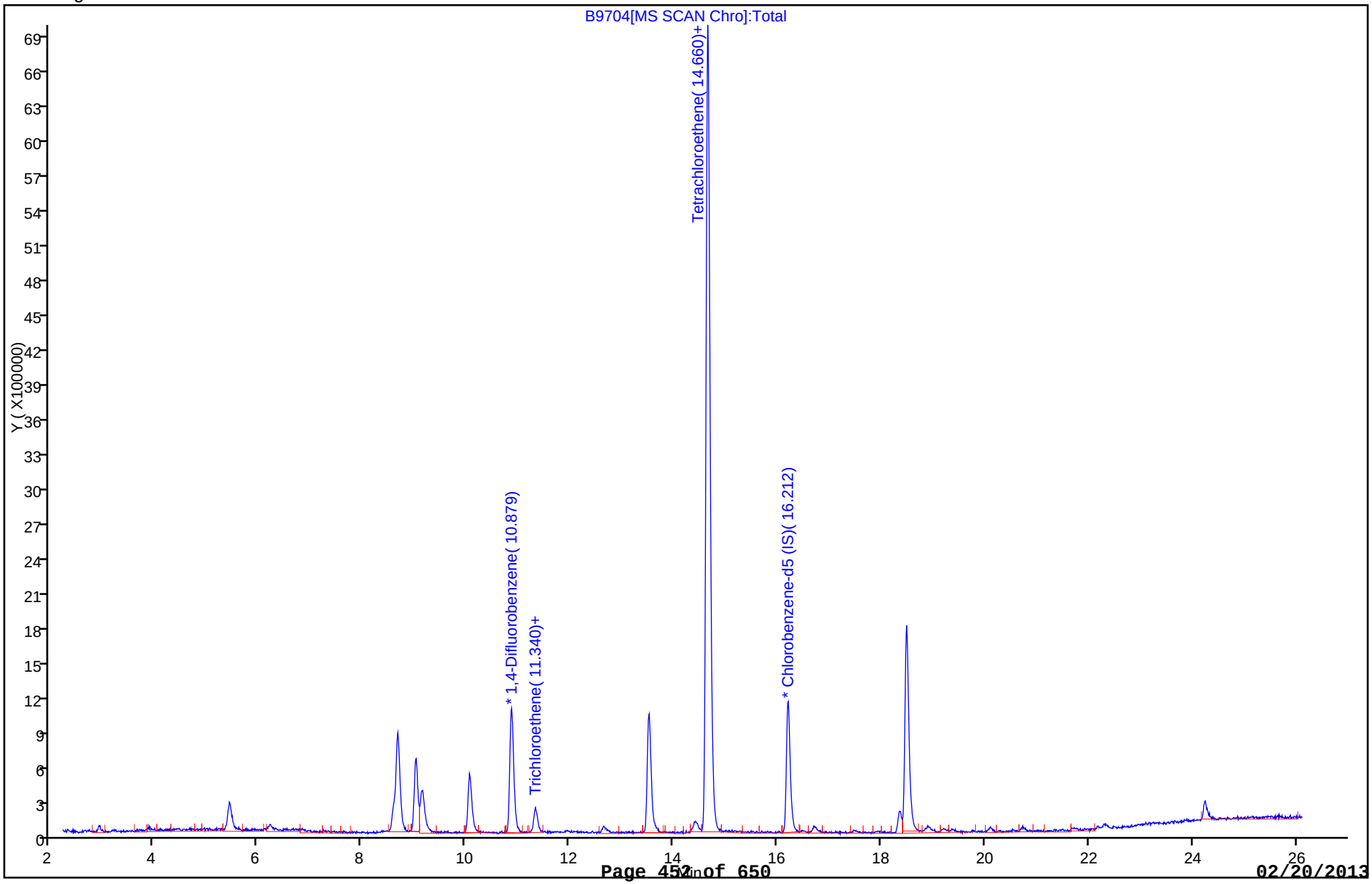
First Level Reviewer: donga Date: 14-Feb-2013 21:22:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.606	8.635	-0.029	93	255960	24.9	
* 56 Chlorobromomethane (IS)	130	9.039	9.059	-0.020	83	671063	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.067	10.088	-0.021	0	740945	48.6	
* 73 1,4-Difluorobenzene	114	10.879	10.900	-0.021	92	2395028	50.0	
74 Trichloroethene	130	11.340	11.360	-0.020	94	215966	12.3	
$ 85 Toluene-d8 (Surr)	100	13.532	13.543	-0.011	98	1269127	49.9	
87 Toluene	91	13.676	13.661	0.015	56	58703	2.03	
96 Tetrachloroethene	166	14.660	14.689	-0.029	97	7191231	226.4	
* 102 Chlorobenzene-d5 (IS)	117	16.212	16.232	-0.020	88	1917790	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.495	18.515	-0.020	91	2106631	50.6	

Report Date: 14-Feb-2013 21:23:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Injection Date:	14-Feb-2013 20:35:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	1W-01D	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	18
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

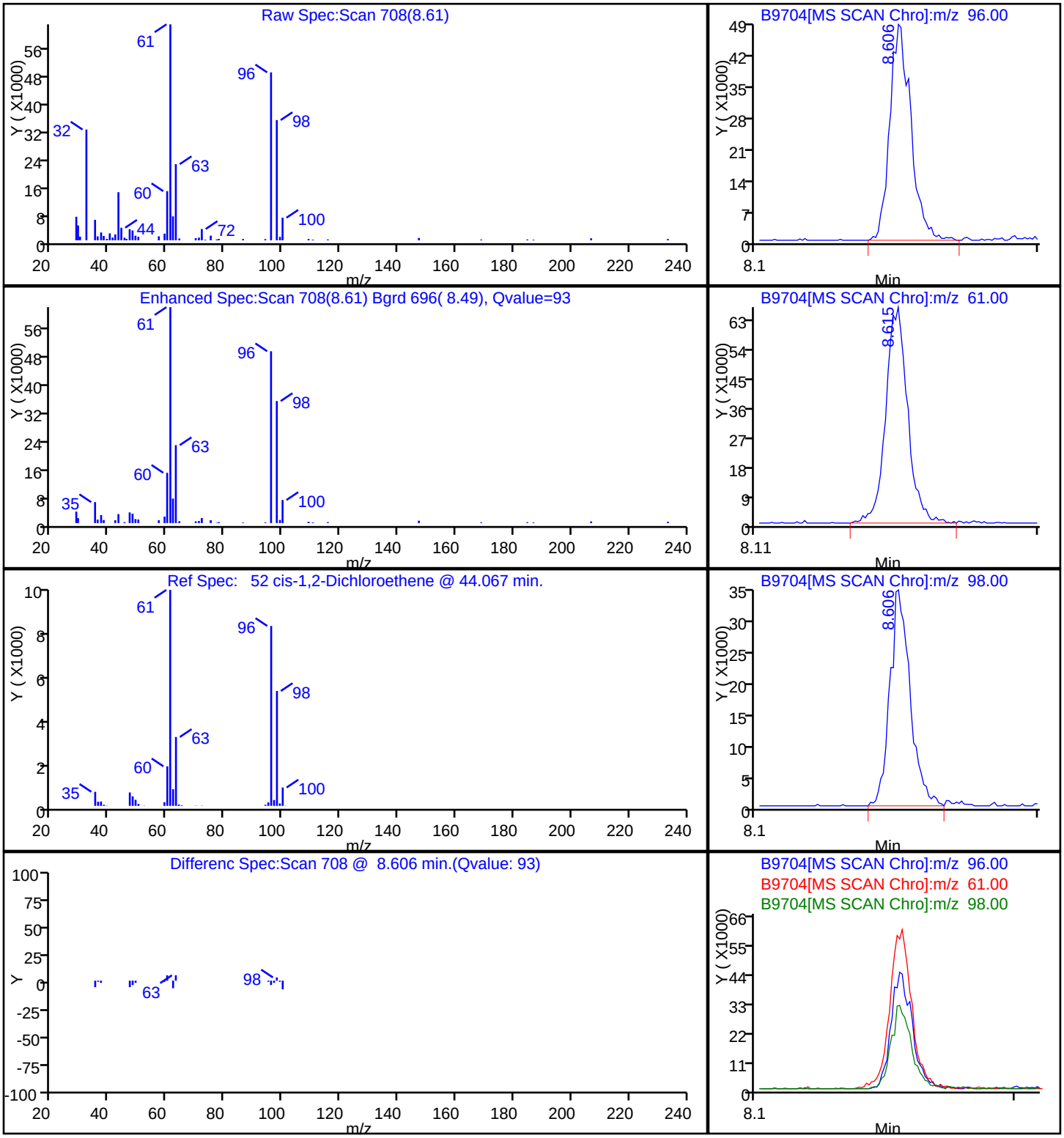


Report Date: 14-Feb-2013 21:23:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Injection Date:	14-Feb-2013 20:35:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	1W-01D	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	18
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

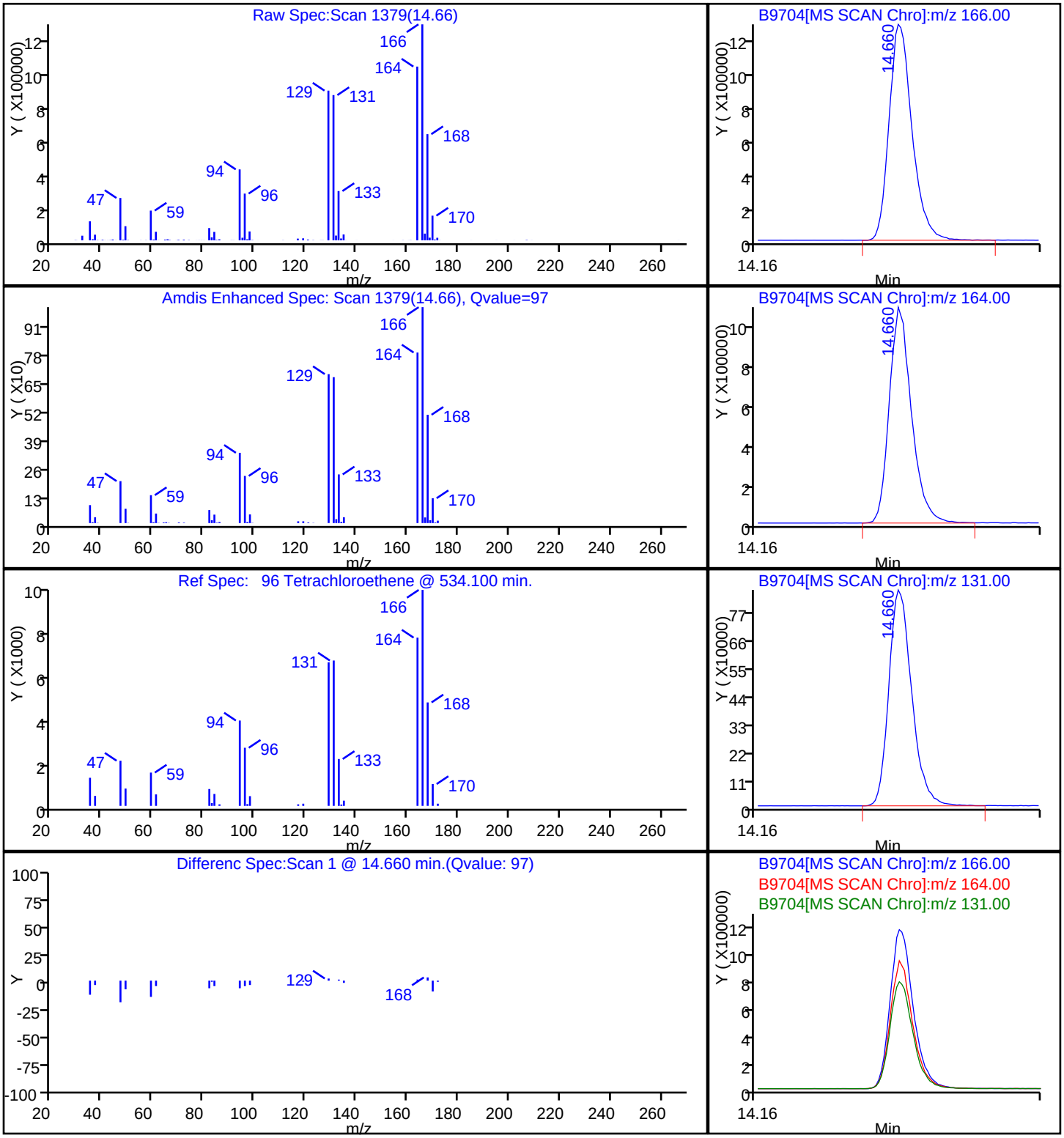


Report Date: 14-Feb-2013 21:23:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Injection Date:	14-Feb-2013 20:35:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	1W-01D	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	18
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

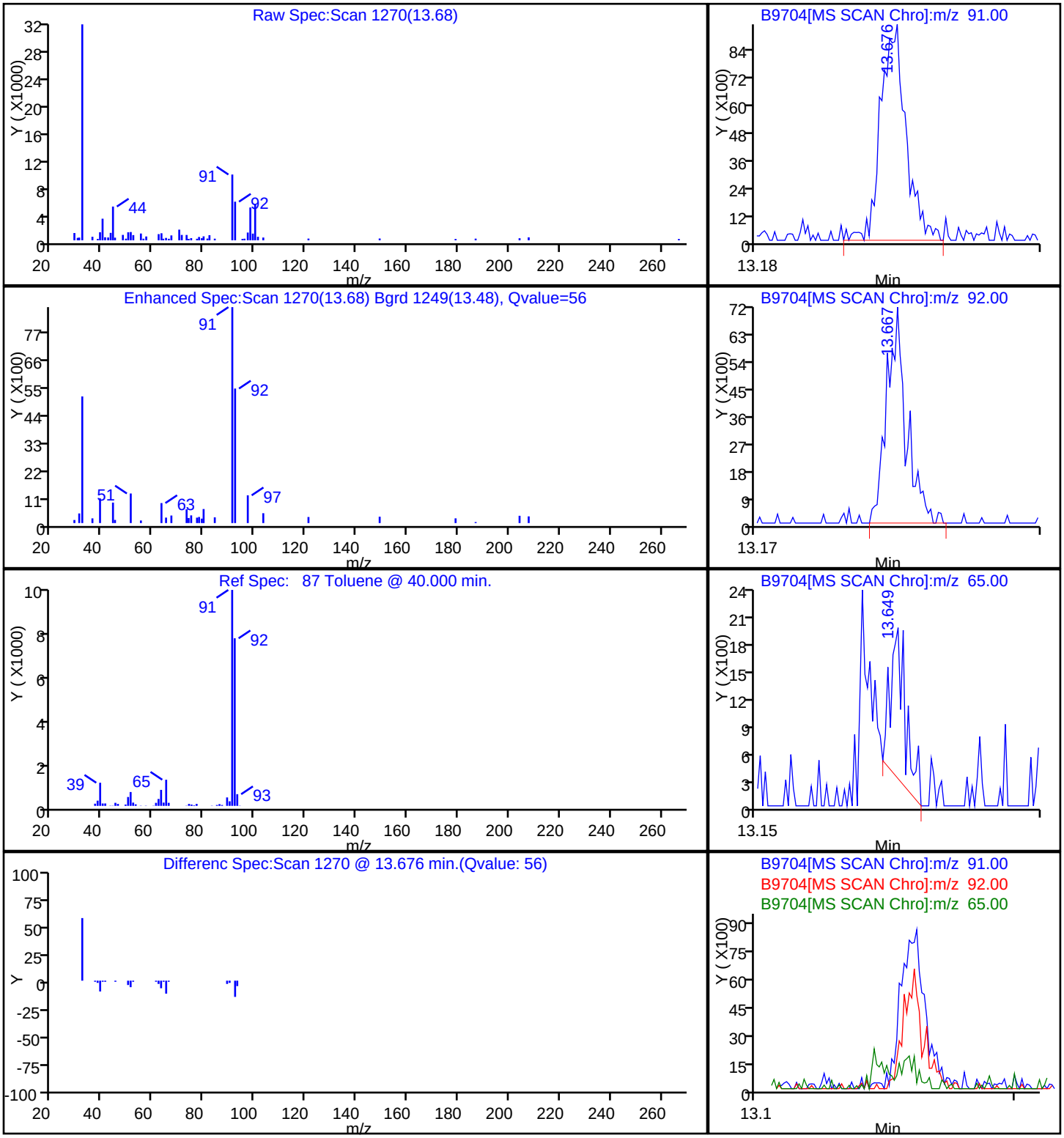


Report Date: 14-Feb-2013 21:23:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Injection Date:	14-Feb-2013 20:35:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	1W-01D	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	18
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

87 Toluene

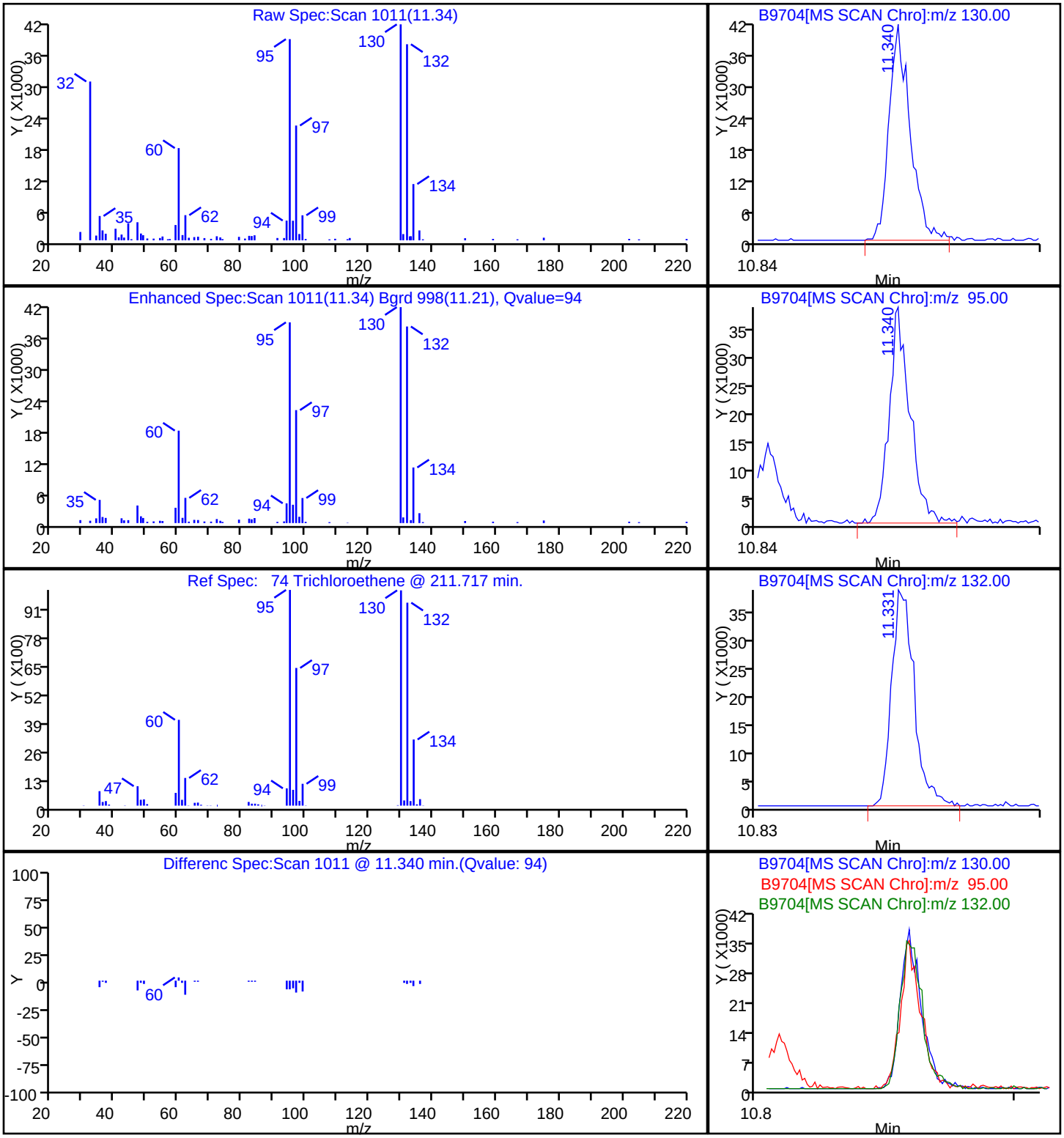


Report Date: 14-Feb-2013 21:23:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9704.D		
Injection Date:	14-Feb-2013 20:35:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	1W-01D	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	18
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-03 | Lab Sample ID: 340-5923-3

Matrix: Air | Lab File ID: B9705.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 17:05

Sample wt/vol: 80(mL) | Date Analyzed: 02/14/2013 21:16

Soil Aliquot Vol: | Dilution Factor: 14.7

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		59	15
67-66-3	Chloroform	119.38	ND		59	15
75-35-4	1,1-Dichloroethene	96.94	ND		59	15
156-59-2	cis-1,2-Dichloroethene	96.94	200		59	15
156-60-5	trans-1,2-Dichloroethene	96.94	ND		59	15
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		59	15
127-18-4	Tetrachloroethene	165.83	2900		59	15
108-88-3	Toluene	92.14	ND		59	15
79-01-6	Trichloroethene	131.39	120		59	15
75-01-4	Vinyl chloride	62.50	ND		59	15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-03 | Lab Sample ID: 340-5923-3

Matrix: Air | Lab File ID: B9705.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 17:05

Sample wt/vol: 80(mL) | Date Analyzed: 02/14/2013 21:16

Soil Aliquot Vol: | Dilution Factor: 14.7

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		190	47
67-66-3	Chloroform	119.38	ND		290	72
75-35-4	1,1-Dichloroethene	96.94	ND		230	58
156-59-2	cis-1,2-Dichloroethene	96.94	790		230	58
156-60-5	trans-1,2-Dichloroethene	96.94	ND		230	58
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		210	53
127-18-4	Tetrachloroethene	165.83	20000		400	100
108-88-3	Toluene	92.14	ND		220	55
79-01-6	Trichloroethene	131.39	620		320	79
75-01-4	Vinyl chloride	62.50	ND		150	38

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9705.D		
Lims ID:	340-5923-A-3	Client ID:	SVE-03
Inject. Date:	14-Feb-2013 21:16:30	Dil. Factor:	14.7000
Sample Type:	Client		
Sample ID:	340-5923-A-3		
Misc. Info.:	340-0002766-019		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	13
Lims Batch ID:	4057	Lims Sample ID:	19
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 22:26:28	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

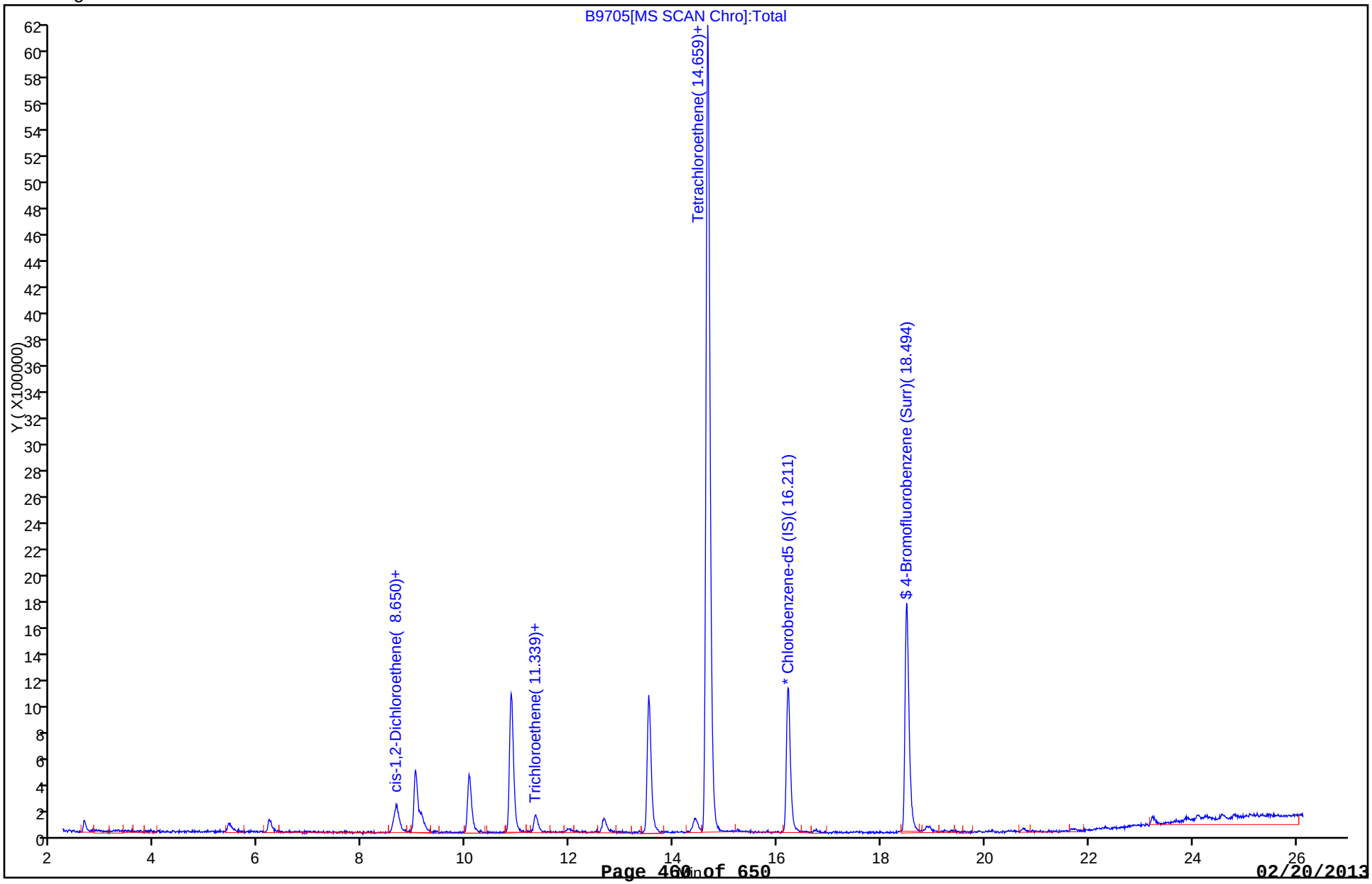
First Level Reviewer: donga Date: 14-Feb-2013 22:26:28

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.632	8.635	-0.003	89	100844	13.6	
* 56 Chlorobromomethane (IS)	130	9.029	9.059	-0.030	84	485615	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.075	10.088	-0.013	0	681788	61.8	
* 73 1,4-Difluorobenzene	114	10.878	10.900	-0.022	91	2393176	50.0	
74 Trichloroethene	130	11.357	11.360	-0.003	92	137603	7.83	
$ 85 Toluene-d8 (Surr)	100	13.522	13.543	-0.021	98	1268038	49.9	
96 Tetrachloroethene	166	14.659	14.689	-0.030	98	6292821	200.0	
* 102 Chlorobenzene-d5 (IS)	117	16.220	16.232	-0.012	87	1899252	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.503	18.515	-0.012	91	2049378	49.7	

Report Date: 14-Feb-2013 22:26:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9705.D		
Injection Date:	14-Feb-2013 21:16:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-03	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	19
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

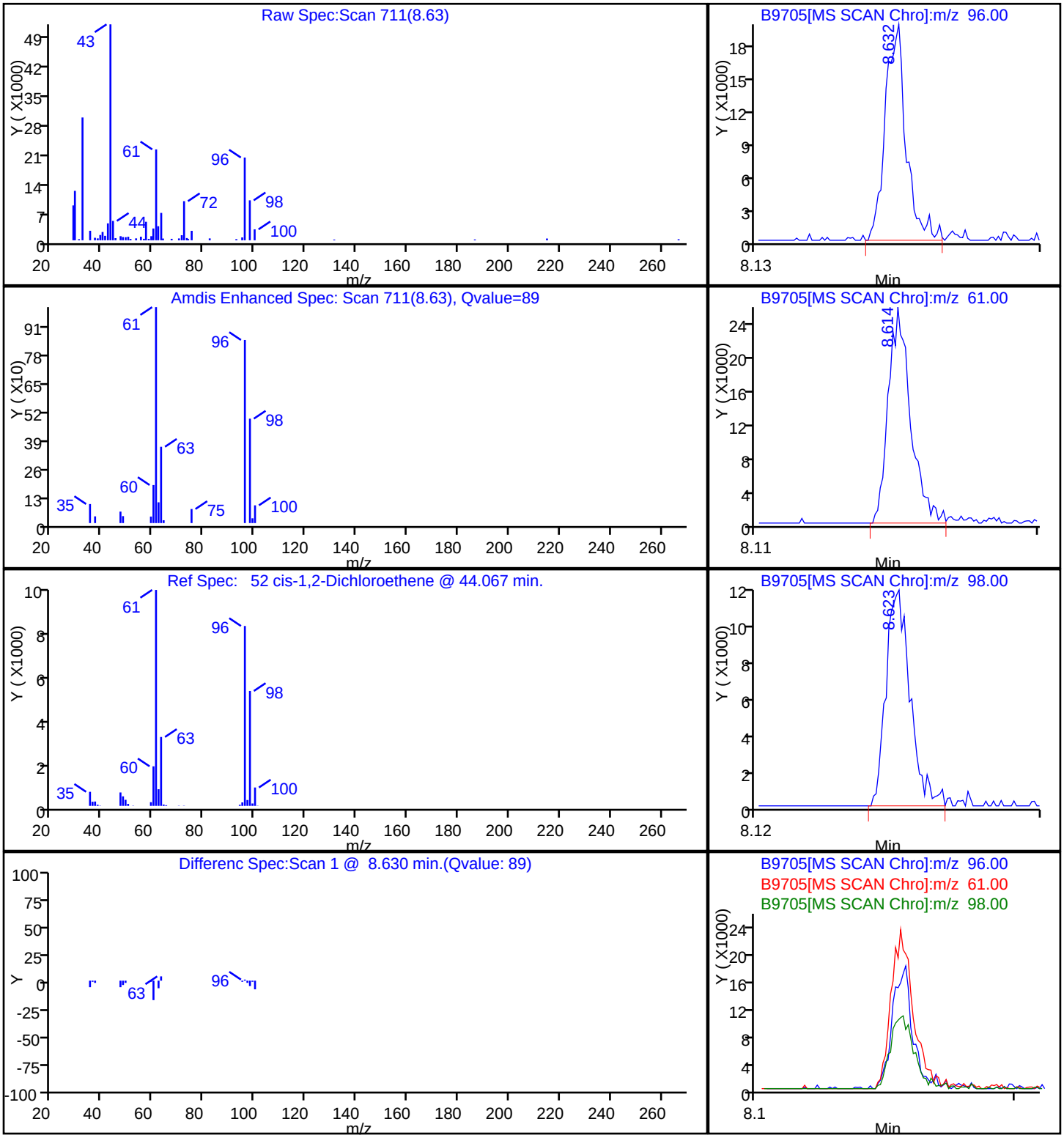


Report Date: 14-Feb-2013 22:26:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9705.D		
Injection Date:	14-Feb-2013 21:16:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-03	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	19
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

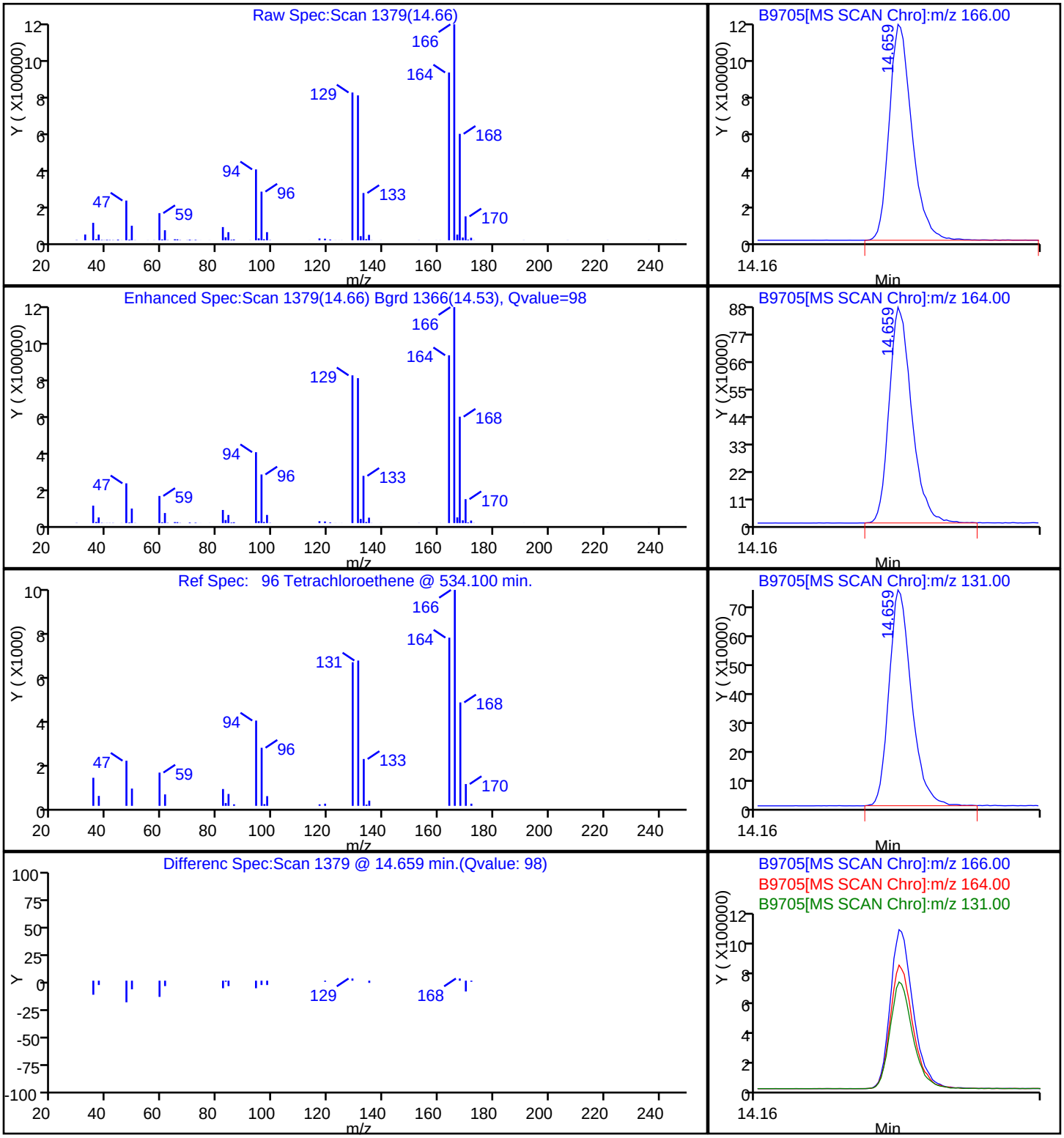


Report Date: 14-Feb-2013 22:26:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9705.D		
Injection Date:	14-Feb-2013 21:16:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-03	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	19
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

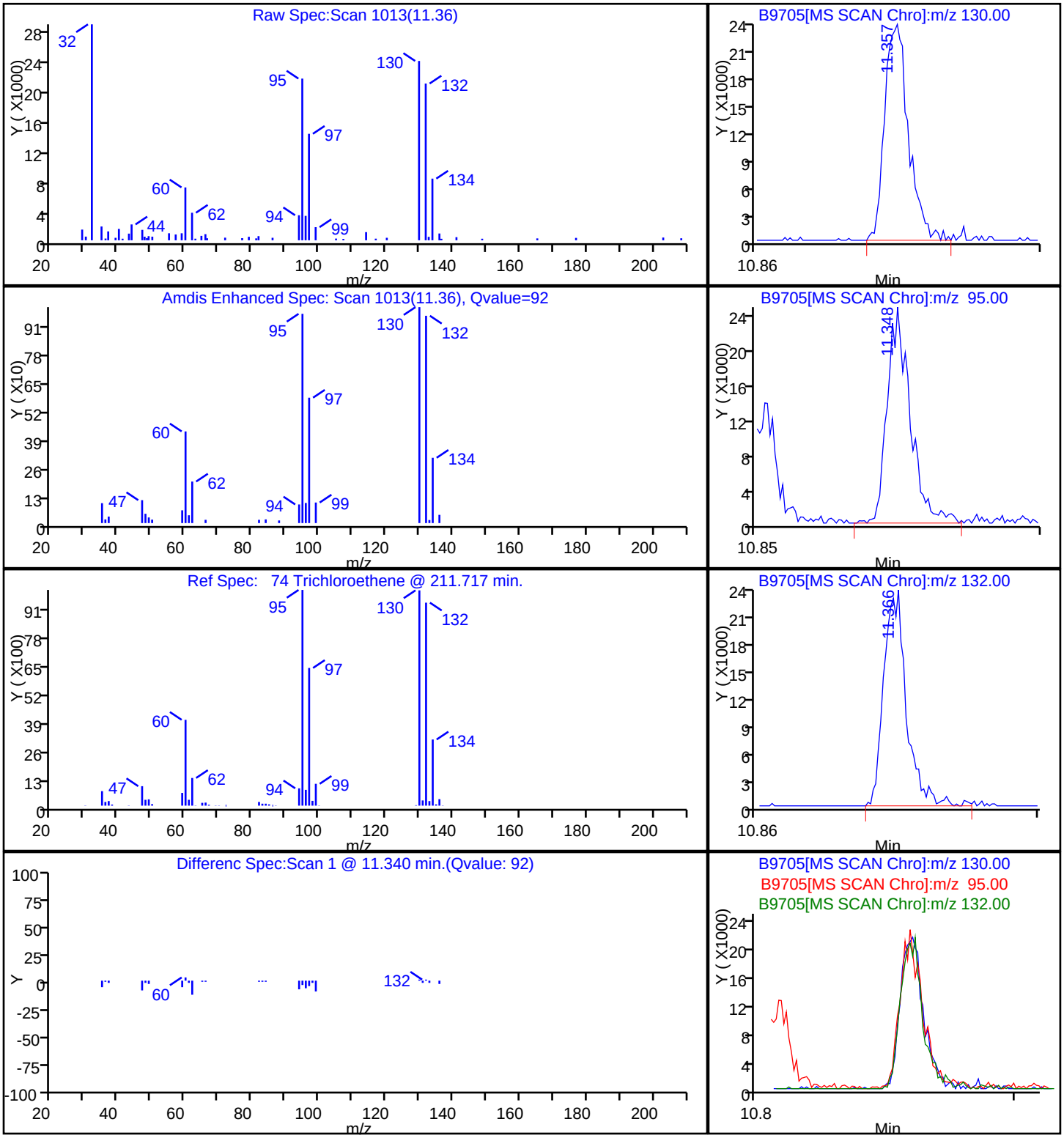


Report Date: 14-Feb-2013 22:26:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9705.D		
Injection Date:	14-Feb-2013 21:16:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-03	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	19
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-02 Lab Sample ID: 340-5923-4

Matrix: Air Lab File ID: B9706.D

Analysis Method: TO-15 MOD Date Collected: 01/23/2013 18:50

Sample wt/vol: 4(mL) Date Analyzed: 02/14/2013 21:56

Soil Aliquot Vol: Dilution Factor: 258

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 4057 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		1000	260
67-66-3	Chloroform	119.38	ND		1000	260
75-35-4	1,1-Dichloroethene	96.94	ND		1000	260
156-59-2	cis-1,2-Dichloroethene	96.94	3800		1000	260
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1000	260
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1000	260
127-18-4	Tetrachloroethene	165.83	40000		1000	260
108-88-3	Toluene	92.14	ND		1000	260
79-01-6	Trichloroethene	131.39	2100		1000	260
75-01-4	Vinyl chloride	62.50	ND		1000	260

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-02 | Lab Sample ID: 340-5923-4

Matrix: Air | Lab File ID: B9706.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 18:50

Sample wt/vol: 4(mL) | Date Analyzed: 02/14/2013 21:56

Soil Aliquot Vol: | Dilution Factor: 258

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		3300	820
67-66-3	Chloroform	119.38	ND		5000	1300
75-35-4	1,1-Dichloroethene	96.94	ND		4100	1000
156-59-2	cis-1,2-Dichloroethene	96.94	15000		4100	1000
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4100	1000
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		3700	930
127-18-4	Tetrachloroethene	165.83	270000		7000	1700
108-88-3	Toluene	92.14	ND		3900	970
79-01-6	Trichloroethene	131.39	11000		5500	1400
75-01-4	Vinyl chloride	62.50	ND		2600	660

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	102		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9706.D		
Lims ID:	340-5923-A-4	Client ID:	SVE-02
Inject. Date:	14-Feb-2013 21:56:30	Dil. Factor:	258.0000
Sample Type:	Client		
Sample ID:	340-5923-A-4		
Misc. Info.:	340-0002766-020		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	14
Lims Batch ID:	4057	Lims Sample ID:	20
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 23:12:15	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

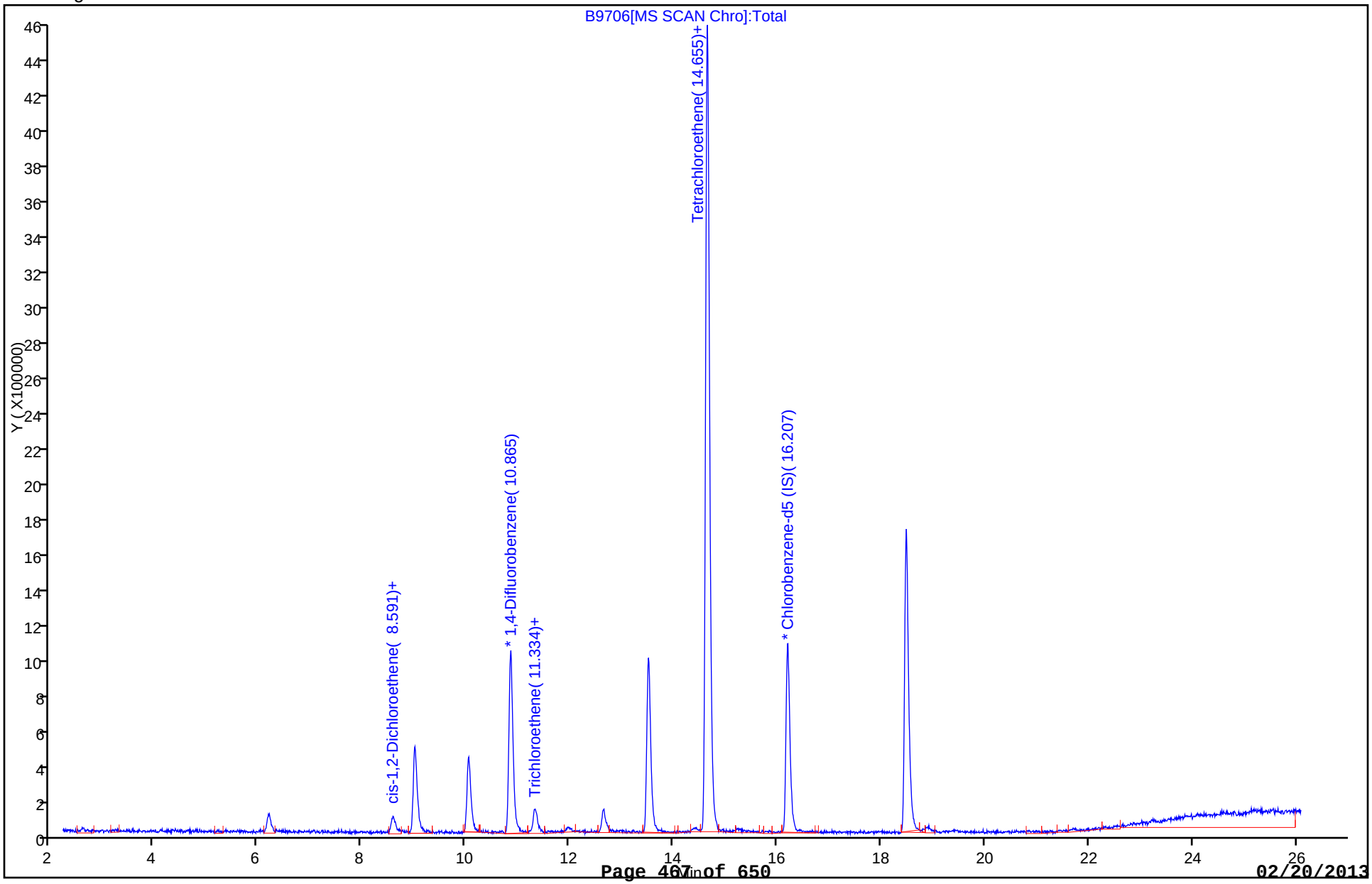
First Level Reviewer: donga Date: 14-Feb-2013 23:12:15

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.591	8.635	-0.044	95	119029	14.5	
* 56 Chlorobromomethane (IS)	130	9.024	9.059	-0.035	84	535011	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.044	10.088	-0.044	0	649583	53.5	
* 73 1,4-Difluorobenzene	114	10.865	10.900	-0.035	94	2339200	50.0	
74 Trichloroethene	130	11.334	11.360	-0.026	92	139099	8.10	
$ 85 Toluene-d8 (Surr)	100	13.518	13.543	-0.025	98	1236800	49.8	
96 Tetrachloroethene	166	14.655	14.689	-0.034	97	4760981	156.1	
* 102 Chlorobenzene-d5 (IS)	117	16.198	16.232	-0.034	88	1841956	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.489	18.515	-0.026	92	2034181	50.9	

Report Date: 14-Feb-2013 23:12:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9706.D		
Injection Date:	14-Feb-2013 21:56:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-02	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	20
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

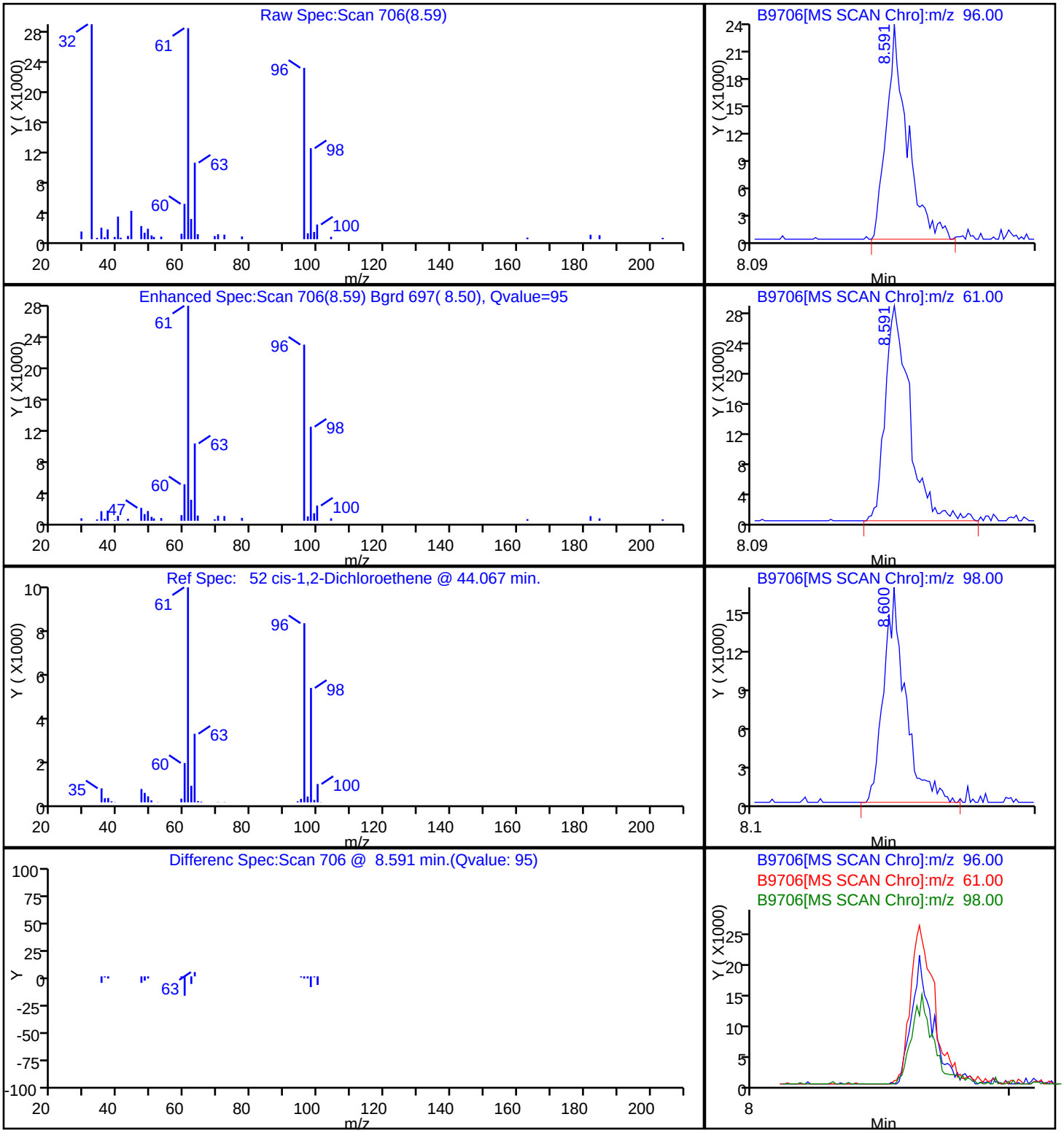


Report Date: 14-Feb-2013 23:12:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9706.D		
Injection Date:	14-Feb-2013 21:56:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-02	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	20
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

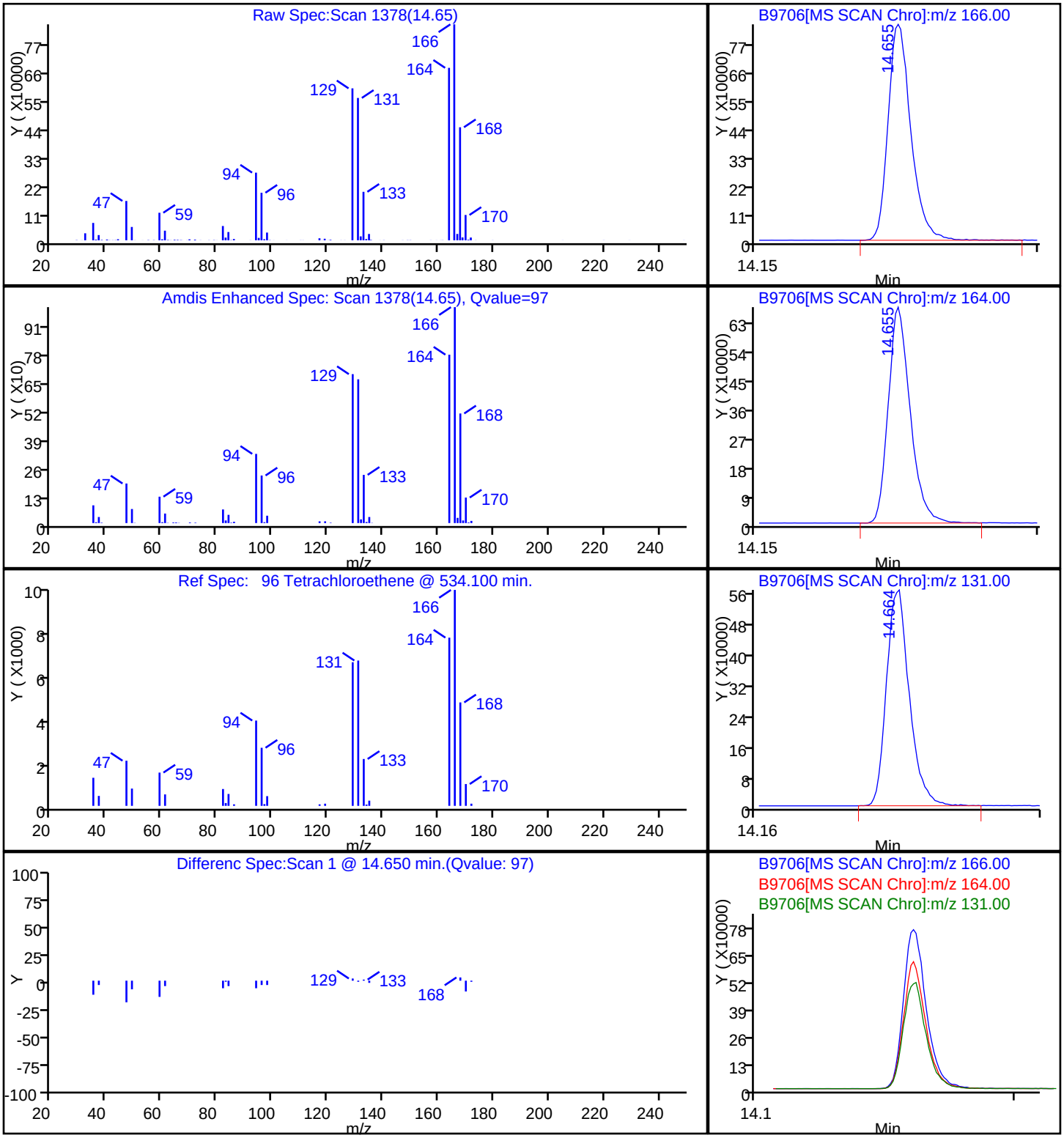


Report Date: 14-Feb-2013 23:12:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9706.D		
Injection Date:	14-Feb-2013 21:56:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-02	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	20
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

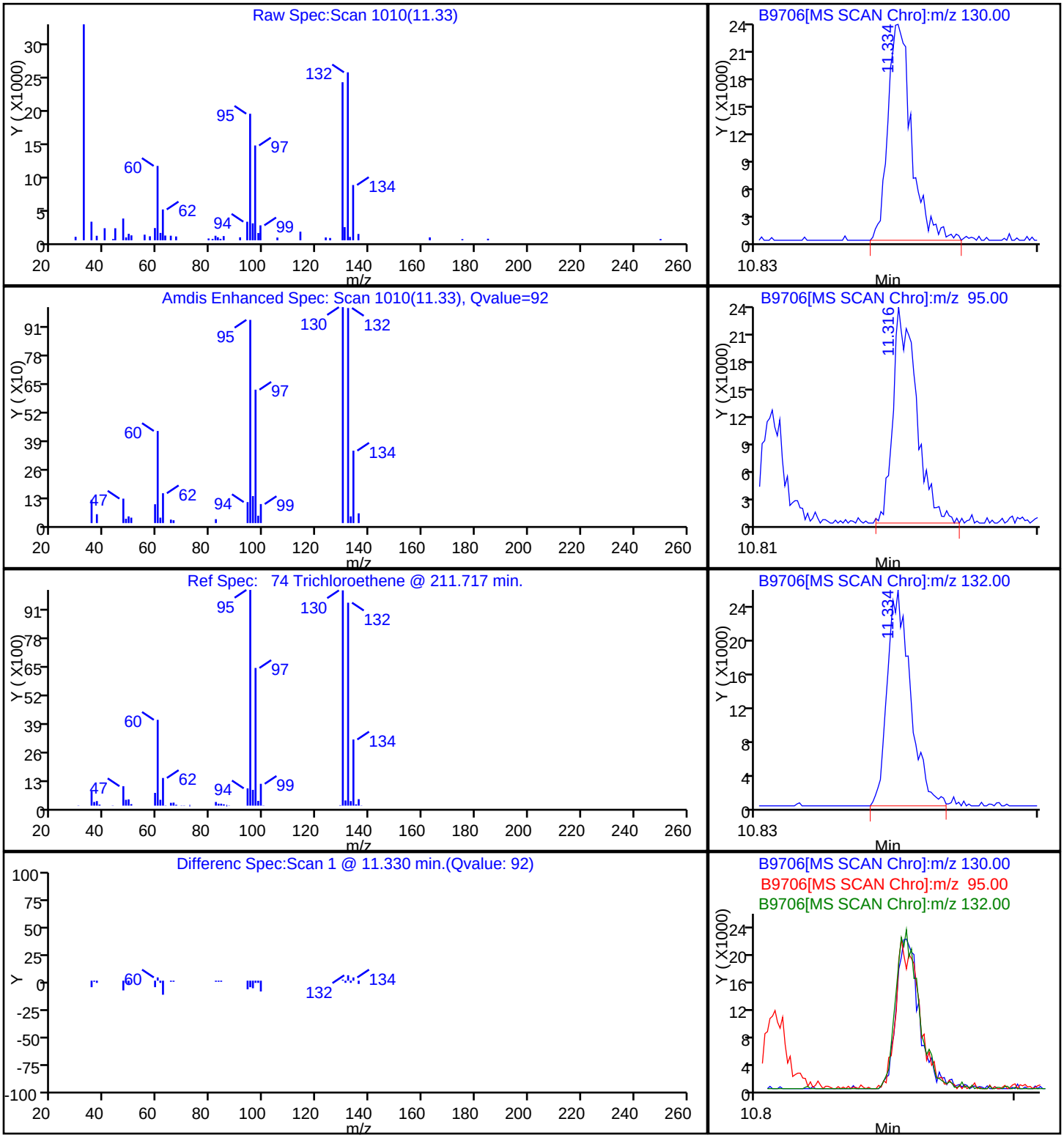


Report Date: 14-Feb-2013 23:12:15 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9706.D		
Injection Date:	14-Feb-2013 21:56:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-02	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	20
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-05 | Lab Sample ID: 340-5923-5

Matrix: Air | Lab File ID: B9707.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 15:50

Sample wt/vol: 25(mL) | Date Analyzed: 02/14/2013 22:37

Soil Aliquot Vol: | Dilution Factor: 41.6

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		170	42
67-66-3	Chloroform	119.38	ND		170	42
75-35-4	1,1-Dichloroethene	96.94	ND		170	42
156-59-2	cis-1,2-Dichloroethene	96.94	870		170	42
156-60-5	trans-1,2-Dichloroethene	96.94	ND		170	42
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		170	42
127-18-4	Tetrachloroethene	165.83	8200		170	42
108-88-3	Toluene	92.14	ND		170	42
79-01-6	Trichloroethene	131.39	410		170	42
75-01-4	Vinyl chloride	62.50	ND		170	42

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-05 | Lab Sample ID: 340-5923-5

Matrix: Air | Lab File ID: B9707.D

Analysis Method: TO-15 MOD | Date Collected: 01/23/2013 15:50

Sample wt/vol: 25(mL) | Date Analyzed: 02/14/2013 22:37

Soil Aliquot Vol: | Dilution Factor: 41.6

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		530	130
67-66-3	Chloroform	119.38	ND		810	200
75-35-4	1,1-Dichloroethene	96.94	ND		660	160
156-59-2	cis-1,2-Dichloroethene	96.94	3400		660	160
156-60-5	trans-1,2-Dichloroethene	96.94	ND		660	160
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		600	150
127-18-4	Tetrachloroethene	165.83	56000		1100	280
108-88-3	Toluene	92.14	ND		630	160
79-01-6	Trichloroethene	131.39	2200		890	220
75-01-4	Vinyl chloride	62.50	ND		430	110

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	99		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9707.D		
Lims ID:	340-5923-A-5	Client ID:	SVE-05
Inject. Date:	14-Feb-2013 22:37:30	Dil. Factor:	41.6000
Sample Type:	Client		
Sample ID:	340-5923-A-5		
Misc. Info.:	340-0002766-021		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	15
Lims Batch ID:	4057	Lims Sample ID:	21
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 23:54:41	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

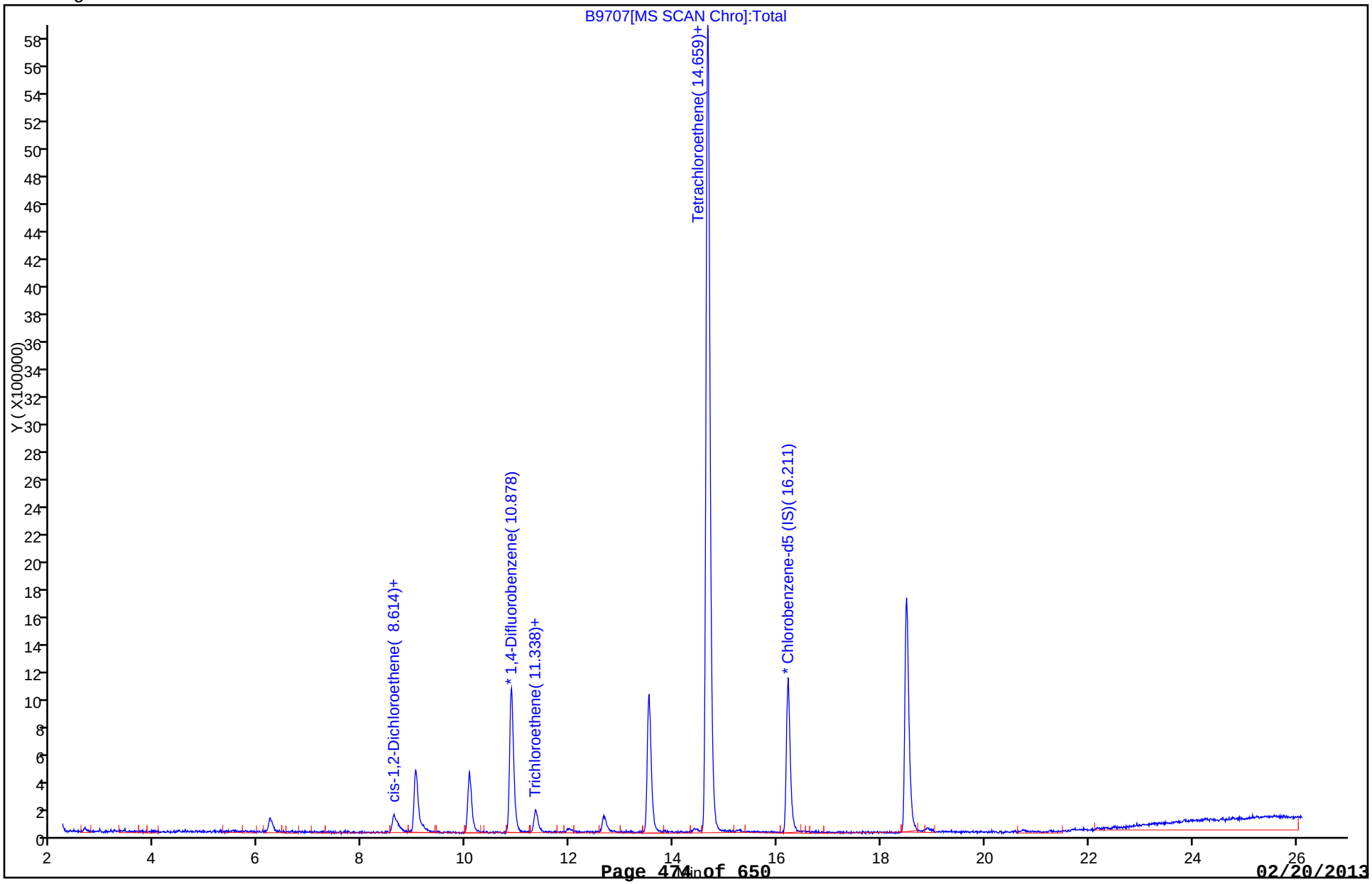
First Level Reviewer: donga Date: 14-Feb-2013 23:54:41

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.614	8.635	-0.021	96	159261	20.9	
* 56 Chlorobromomethane (IS)	130	9.038	9.059	-0.021	86	499368	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.066	10.088	-0.022	0	668580	59.0	
* 73 1,4-Difluorobenzene	114	10.878	10.900	-0.022	92	2371997	50.0	
74 Trichloroethene	130	11.347	11.360	-0.013	92	170524	9.79	
$ 85 Toluene-d8 (Surr)	100	13.531	13.543	-0.012	98	1245380	49.4	
96 Tetrachloroethene	166	14.659	14.689	-0.030	97	6133103	198.2	
* 102 Chlorobenzene-d5 (IS)	117	16.202	16.232	-0.030	88	1868597	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.484	18.515	-0.031	92	2046793	50.5	

Report Date: 14-Feb-2013 23:54:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9707.D		
Injection Date:	14-Feb-2013 22:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-05	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	21
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

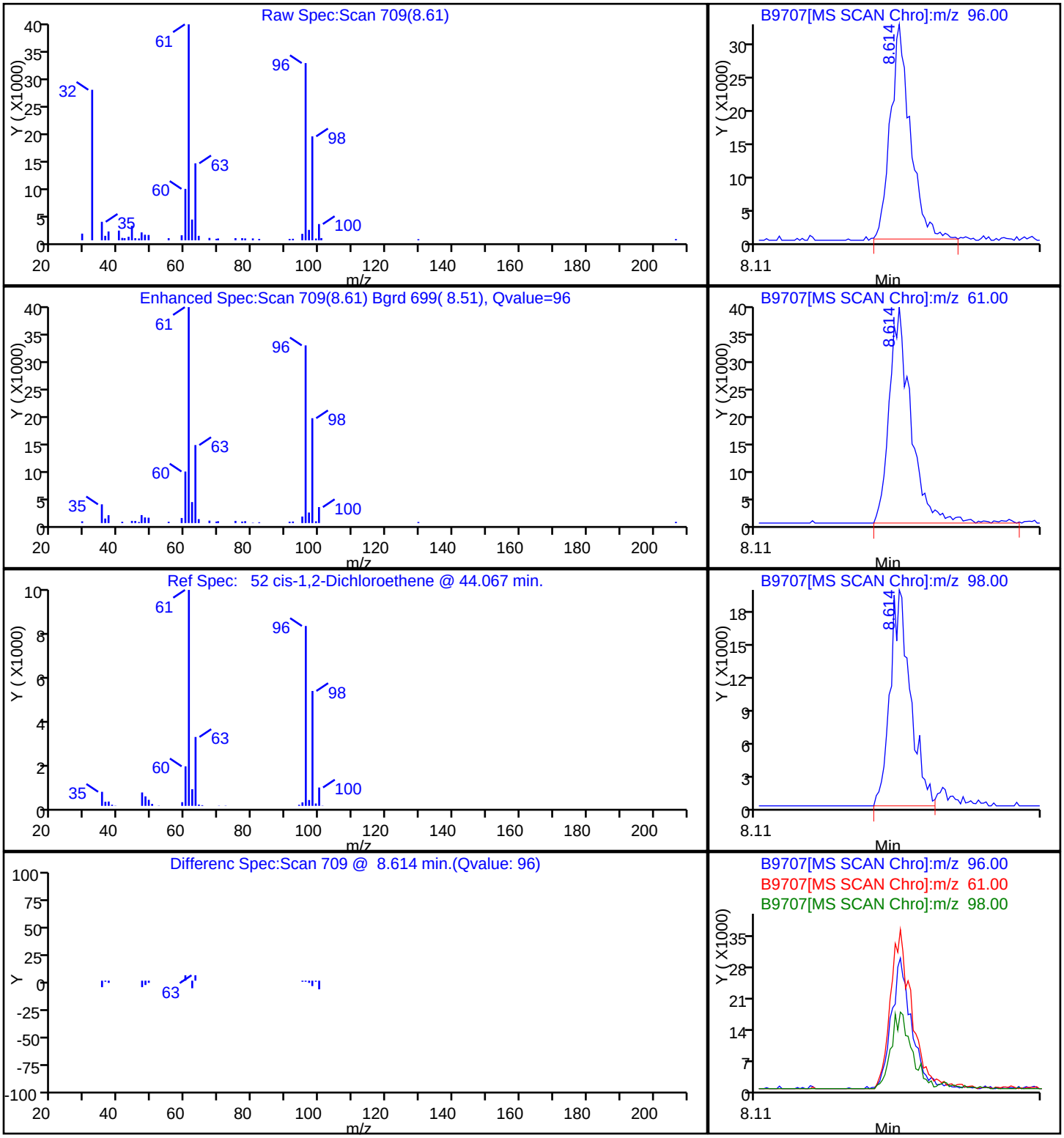


Report Date: 14-Feb-2013 23:54:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9707.D		
Injection Date:	14-Feb-2013 22:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-05	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	21
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

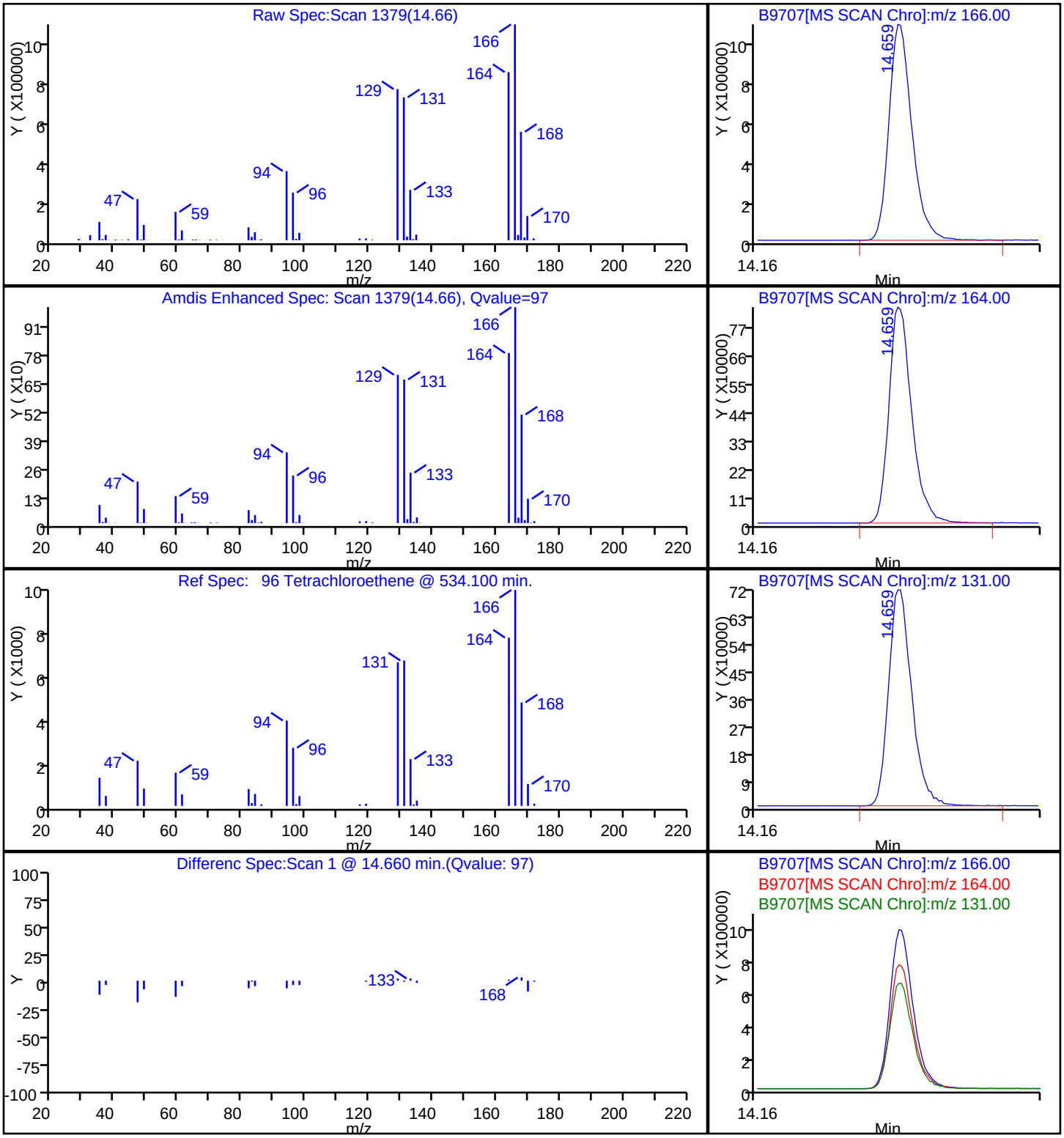


Report Date: 14-Feb-2013 23:54:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9707.D		
Injection Date:	14-Feb-2013 22:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-05	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	21
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

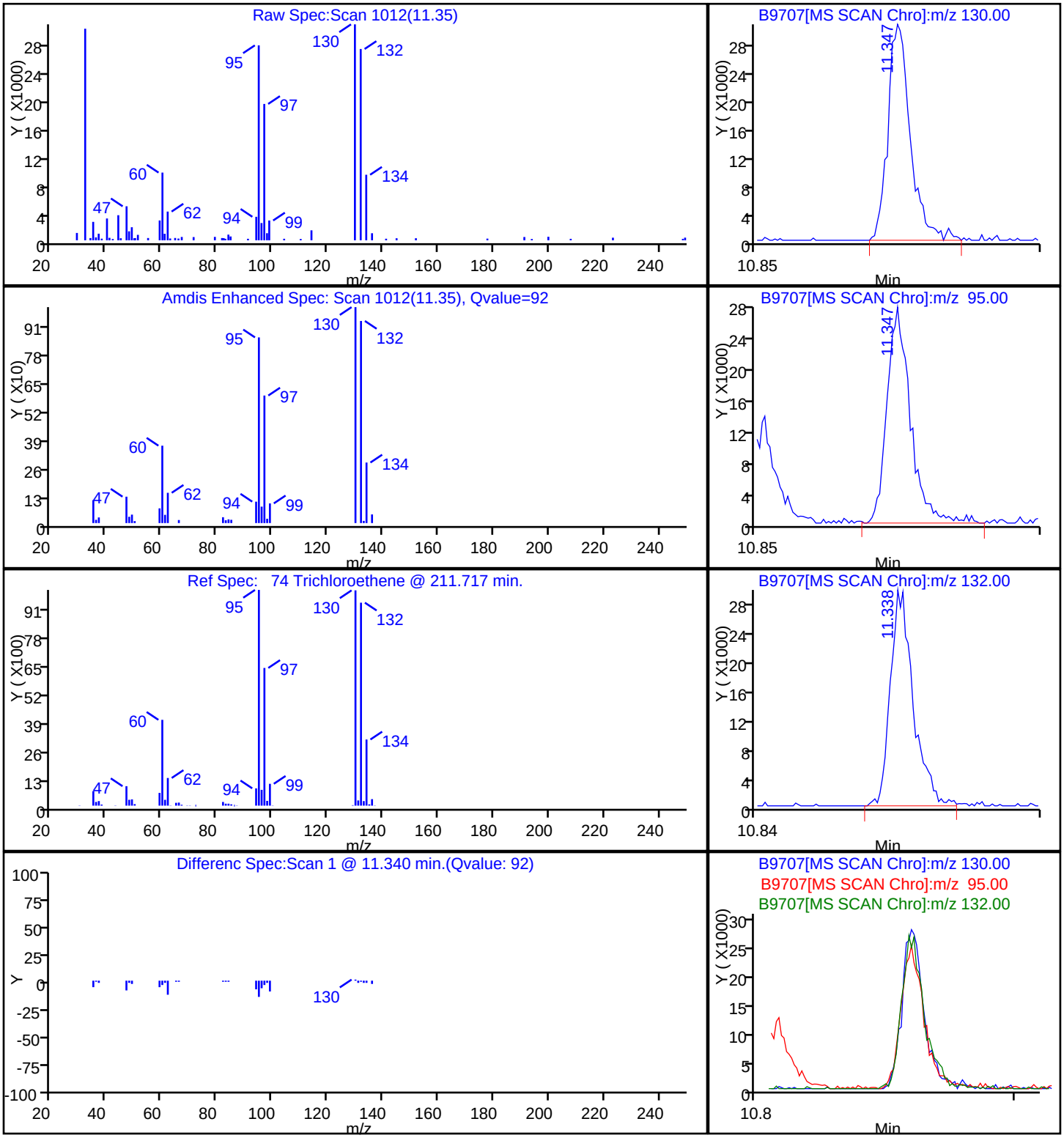


Report Date: 14-Feb-2013 23:54:41 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9707.D		
Injection Date:	14-Feb-2013 22:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-05	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	21
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-1 | Lab Sample ID: 340-5923-6

Matrix: Air | Lab File ID: B9708.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 11:13

Sample wt/vol: 10(mL) | Date Analyzed: 02/14/2013 23:17

Soil Aliquot Vol: | Dilution Factor: 91

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		360	91
67-66-3	Chloroform	119.38	ND		360	91
75-35-4	1,1-Dichloroethene	96.94	ND		360	91
156-59-2	cis-1,2-Dichloroethene	96.94	1200		360	91
156-60-5	trans-1,2-Dichloroethene	96.94	ND		360	91
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		360	91
127-18-4	Tetrachloroethene	165.83	12000		360	91
108-88-3	Toluene	92.14	ND		360	91
79-01-6	Trichloroethene	131.39	640		360	91
75-01-4	Vinyl chloride	62.50	ND		360	91

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-1 | Lab Sample ID: 340-5923-6

Matrix: Air | Lab File ID: B9708.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 11:13

Sample wt/vol: 10(mL) | Date Analyzed: 02/14/2013 23:17

Soil Aliquot Vol: | Dilution Factor: 91

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		1200	290
67-66-3	Chloroform	119.38	ND		1800	440
75-35-4	1,1-Dichloroethene	96.94	ND		1400	360
156-59-2	cis-1,2-Dichloroethene	96.94	4700		1400	360
156-60-5	trans-1,2-Dichloroethene	96.94	ND		1400	360
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1300	330
127-18-4	Tetrachloroethene	165.83	80000		2500	620
108-88-3	Toluene	92.14	ND		1400	340
79-01-6	Trichloroethene	131.39	3400		2000	490
75-01-4	Vinyl chloride	62.50	ND		930	230

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9708.D		
Lims ID:	340-5923-A-6	Client ID:	SVE-01-1
Inject. Date:	14-Feb-2013 23:17:30	Dil. Factor:	91.0000
Sample Type:	Client		
Sample ID:	340-5923-A-6		
Misc. Info.:	340-0002766-022		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	16
Lims Batch ID:	4057	Lims Sample ID:	22
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 00:14:58	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: donga Date: 15-Feb-2013 00:14:58

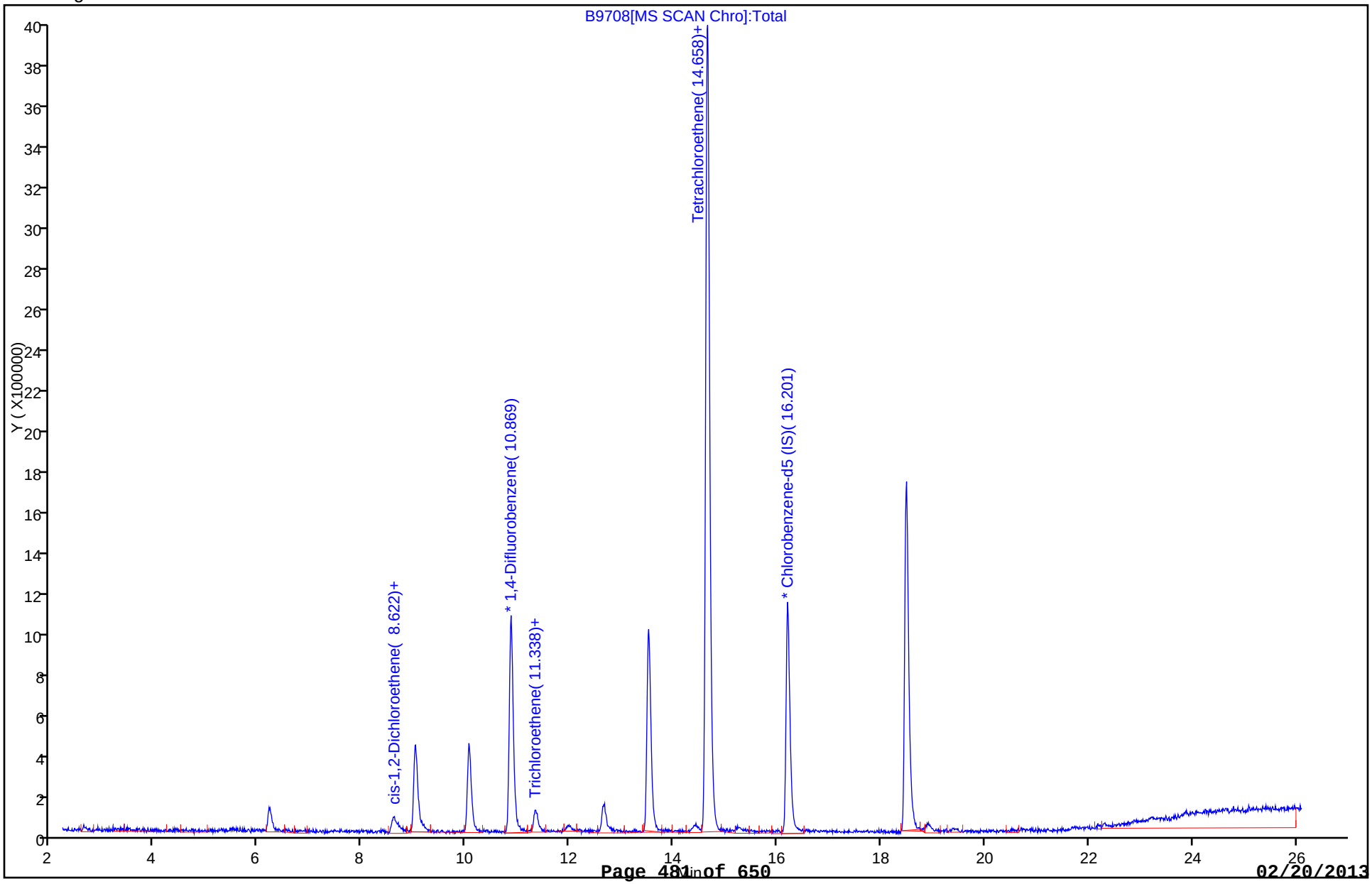
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.604	8.635	-0.031	93	96439	13.0	
* 56 Chlorobromomethane (IS)	130	9.028	9.059	-0.031	83	483512	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.066	10.088	-0.022	0	636066	57.9	
* 73 1,4-Difluorobenzene	114	10.869	10.900	-0.031	94	2310025	50.0	
74 Trichloroethene	130	11.365	11.360	0.005	89	118361	6.98	
$ 85 Toluene-d8 (Surr)	100	13.521	13.543	-0.022	98	1228274	50.1	
96 Tetrachloroethene	166	14.658	14.689	-0.031	97	4089236	129.9	
* 102 Chlorobenzene-d5 (IS)	117	16.201	16.232	-0.031	87	1901095	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.493	18.515	-0.022	92	2045535	49.6	

Report Date: 15-Feb-2013 00:18:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9708.D		
Injection Date:	14-Feb-2013 23:17:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-1	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	22
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

Y Scaling:

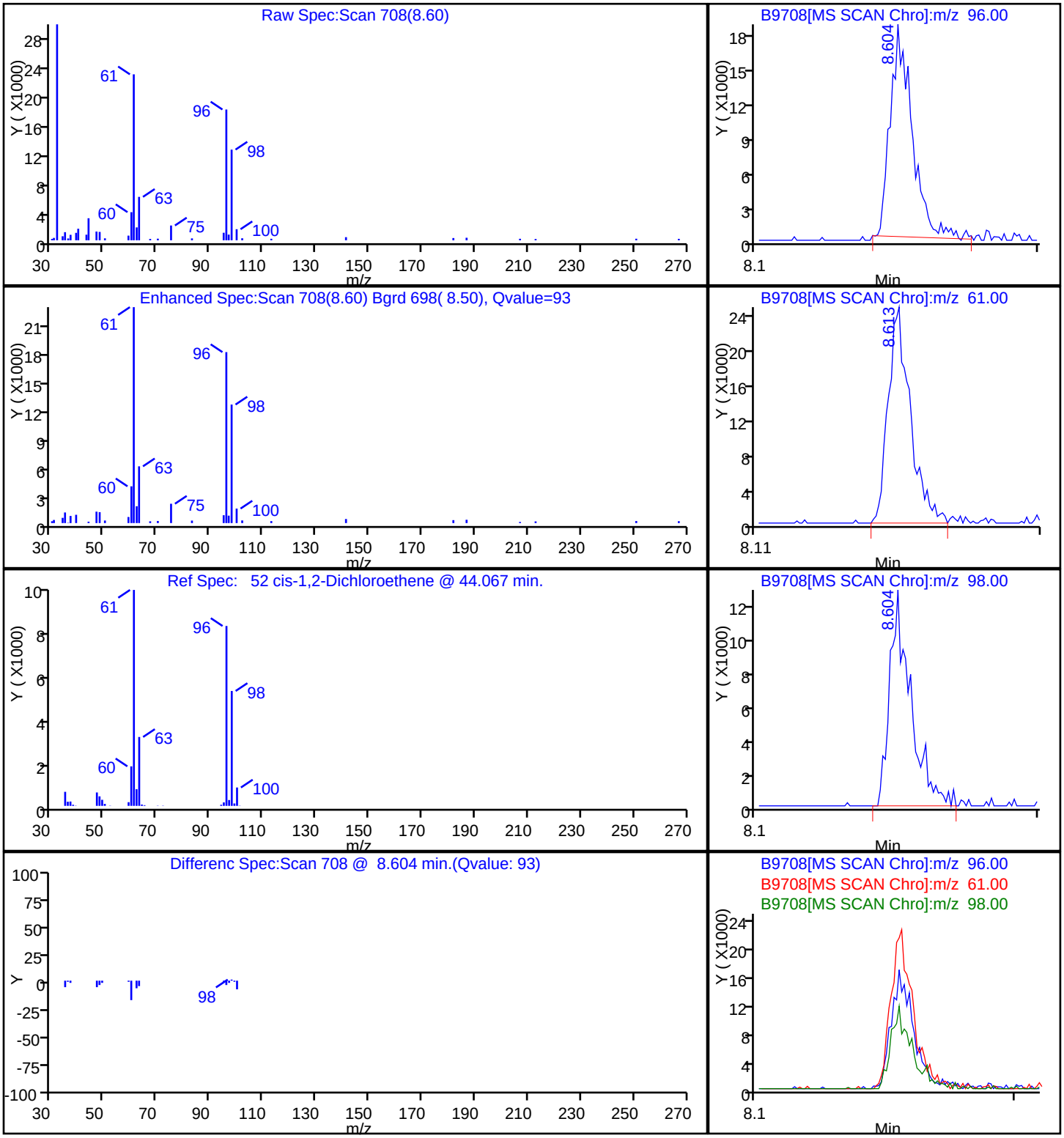


Report Date: 15-Feb-2013 00:18:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9708.D		
Injection Date:	14-Feb-2013 23:17:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-1	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	22
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

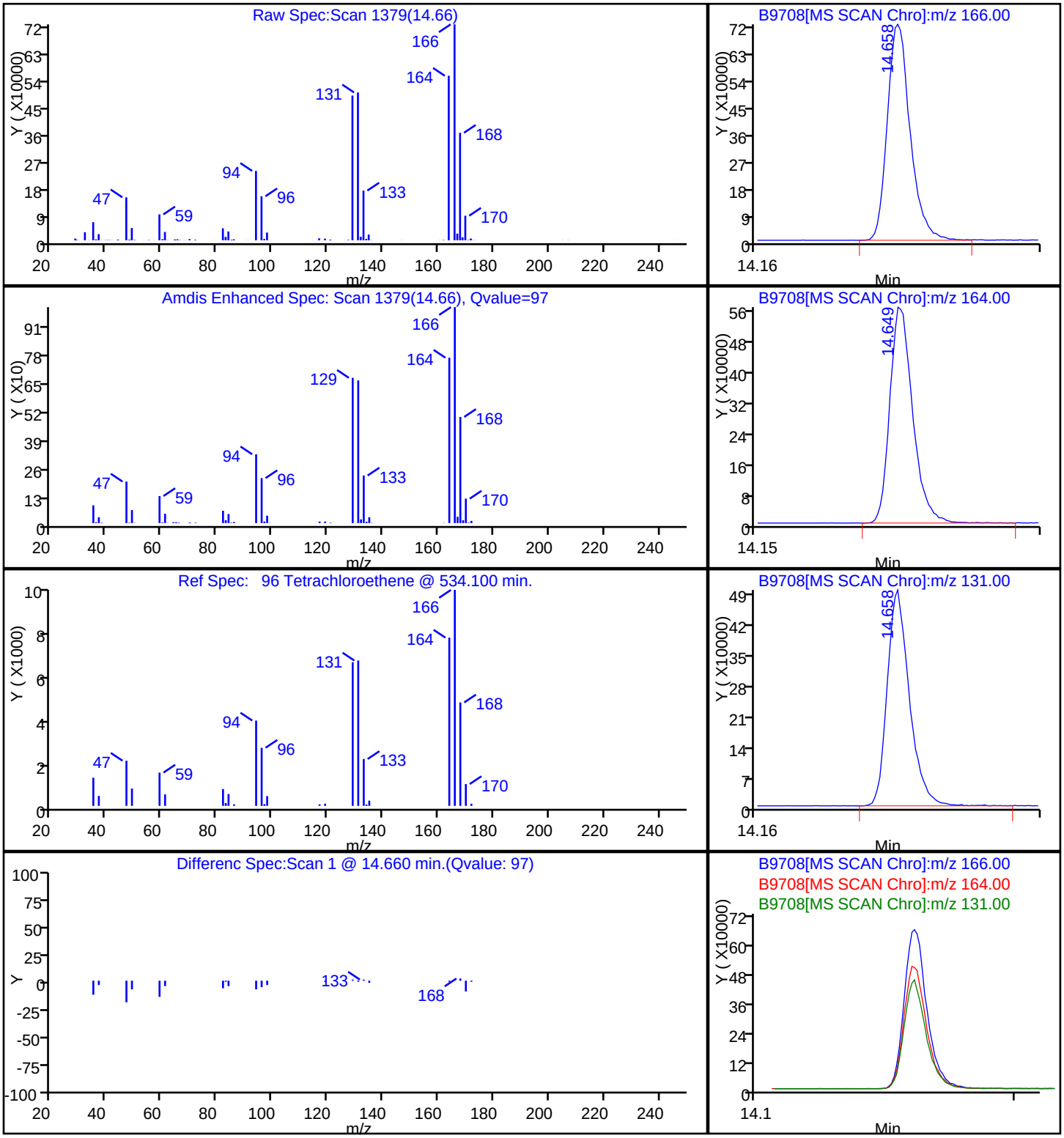


Report Date: 15-Feb-2013 00:18:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9708.D		
Injection Date:	14-Feb-2013 23:17:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-1	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	22
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

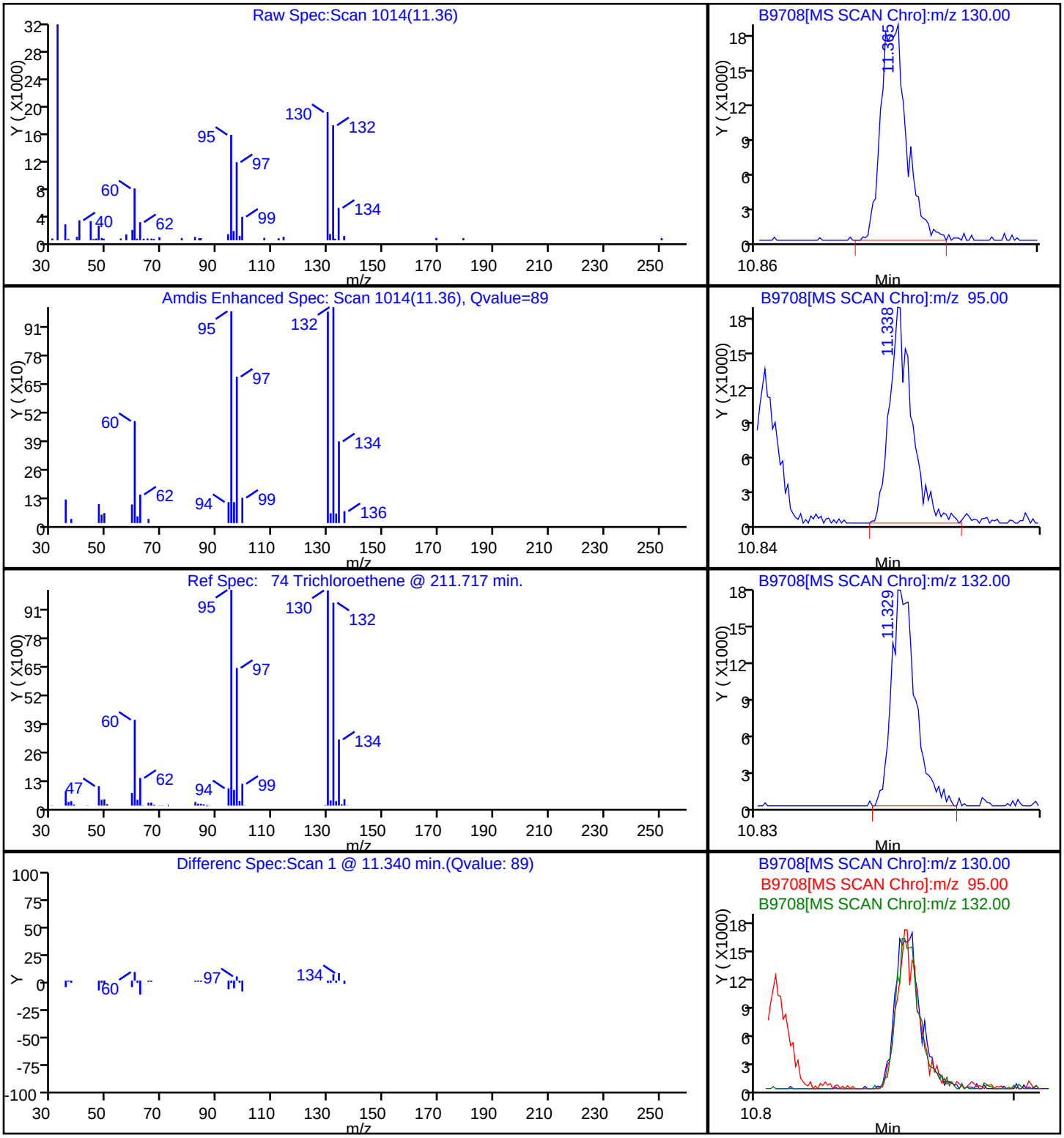


Report Date: 15-Feb-2013 00:18:53 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9708.D		
Injection Date:	14-Feb-2013 23:17:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-1	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	22
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-2 | Lab Sample ID: 340-5923-7

Matrix: Air | Lab File ID: B9709.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 16:30

Sample wt/vol: 6(mL) | Date Analyzed: 02/14/2013 23:57

Soil Aliquot Vol: | Dilution Factor: 146

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		580	150
67-66-3	Chloroform	119.38	ND		580	150
75-35-4	1,1-Dichloroethene	96.94	ND		580	150
156-59-2	cis-1,2-Dichloroethene	96.94	2200		580	150
156-60-5	trans-1,2-Dichloroethene	96.94	ND		580	150
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		580	150
127-18-4	Tetrachloroethene	165.83	22000		580	150
108-88-3	Toluene	92.14	ND		580	150
79-01-6	Trichloroethene	131.39	1200		580	150
75-01-4	Vinyl chloride	62.50	ND		580	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-2 | Lab Sample ID: 340-5923-7

Matrix: Air | Lab File ID: B9709.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 16:30

Sample wt/vol: 6(mL) | Date Analyzed: 02/14/2013 23:57

Soil Aliquot Vol: | Dilution Factor: 146

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		1900	470
67-66-3	Chloroform	119.38	ND		2900	710
75-35-4	1,1-Dichloroethene	96.94	ND		2300	580
156-59-2	cis-1,2-Dichloroethene	96.94	8900		2300	580
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2300	580
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		2100	530
127-18-4	Tetrachloroethene	165.83	150000		4000	990
108-88-3	Toluene	92.14	ND		2200	550
79-01-6	Trichloroethene	131.39	6400		3100	780
75-01-4	Vinyl chloride	62.50	ND		1500	370

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9709.D		
Lims ID:	340-5923-A-7	Client ID:	SVE-01-2
Inject. Date:	14-Feb-2013 23:57:30	Dil. Factor:	146.0000
Sample Type:	Client		
Sample ID:	340-5923-A-7		
Misc. Info.:	340-0002766-023		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	4057	Lims Sample ID:	23
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 00:29:02	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

First Level Reviewer: donga Date: 15-Feb-2013 00:29:02

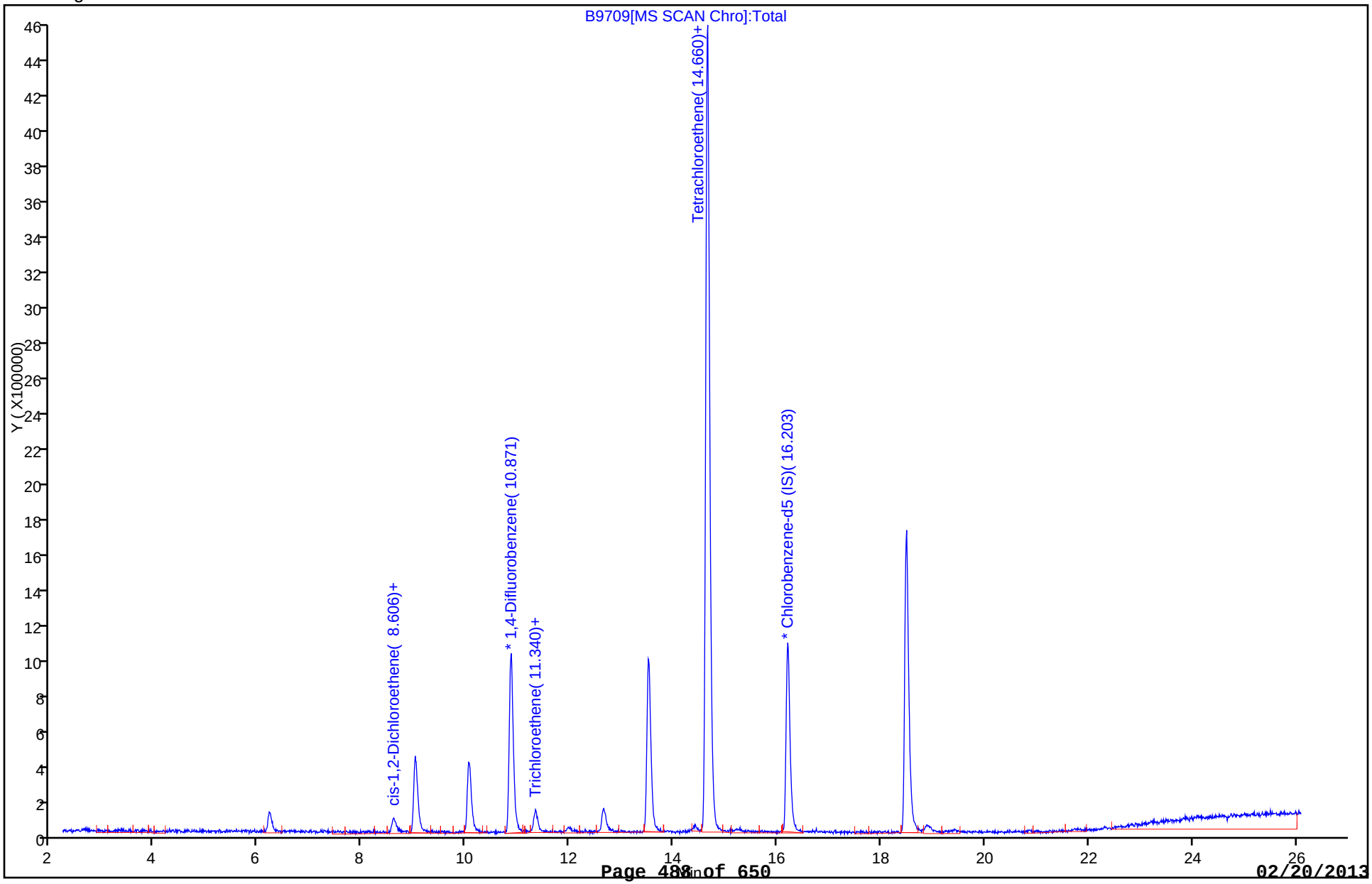
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.606	8.635	-0.029	91	111247	15.4	
* 56 Chlorobromomethane (IS)	130	9.039	9.059	-0.020	88	472878	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.059	10.088	-0.029	0	635944	59.2	
* 73 1,4-Difluorobenzene	114	10.871	10.900	-0.029	91	2278864	50.0	
74 Trichloroethene	130	11.349	11.360	-0.011	86	135585	8.10	
$ 85 Toluene-d8 (Surr)	100	13.514	13.543	-0.029	99	1225670	50.6	
96 Tetrachloroethene	166	14.660	14.689	-0.029	97	4693499	150.4	
* 102 Chlorobenzene-d5 (IS)	117	16.203	16.232	-0.029	87	1884210	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.495	18.515	-0.020	91	2038631	49.9	

Report Date: 15-Feb-2013 00:29:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9709.D		
Injection Date:	14-Feb-2013 23:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-2	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	23
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

Y Scaling:

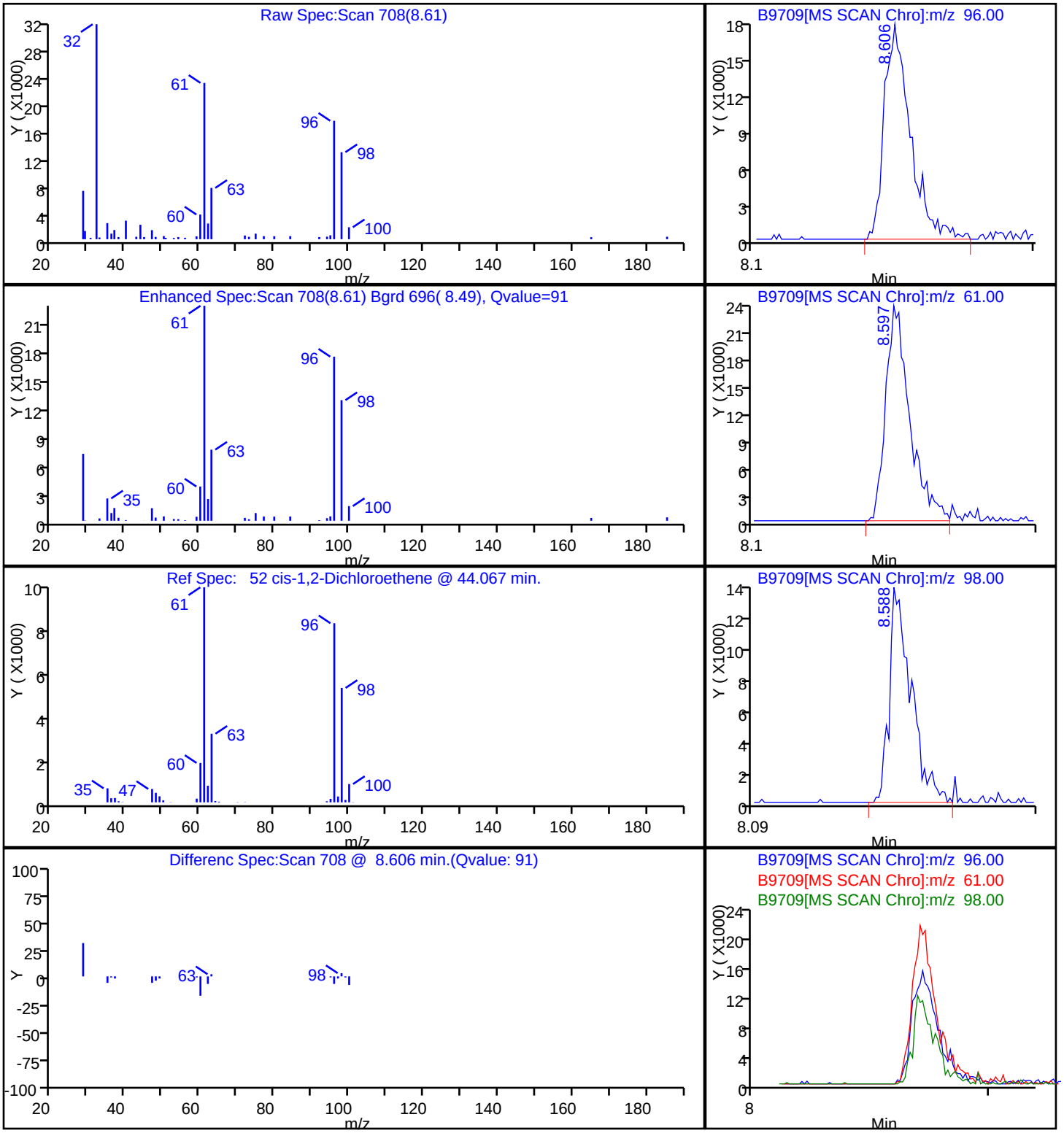


Report Date: 15-Feb-2013 00:29:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9709.D		
Injection Date:	14-Feb-2013 23:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-2	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	23
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

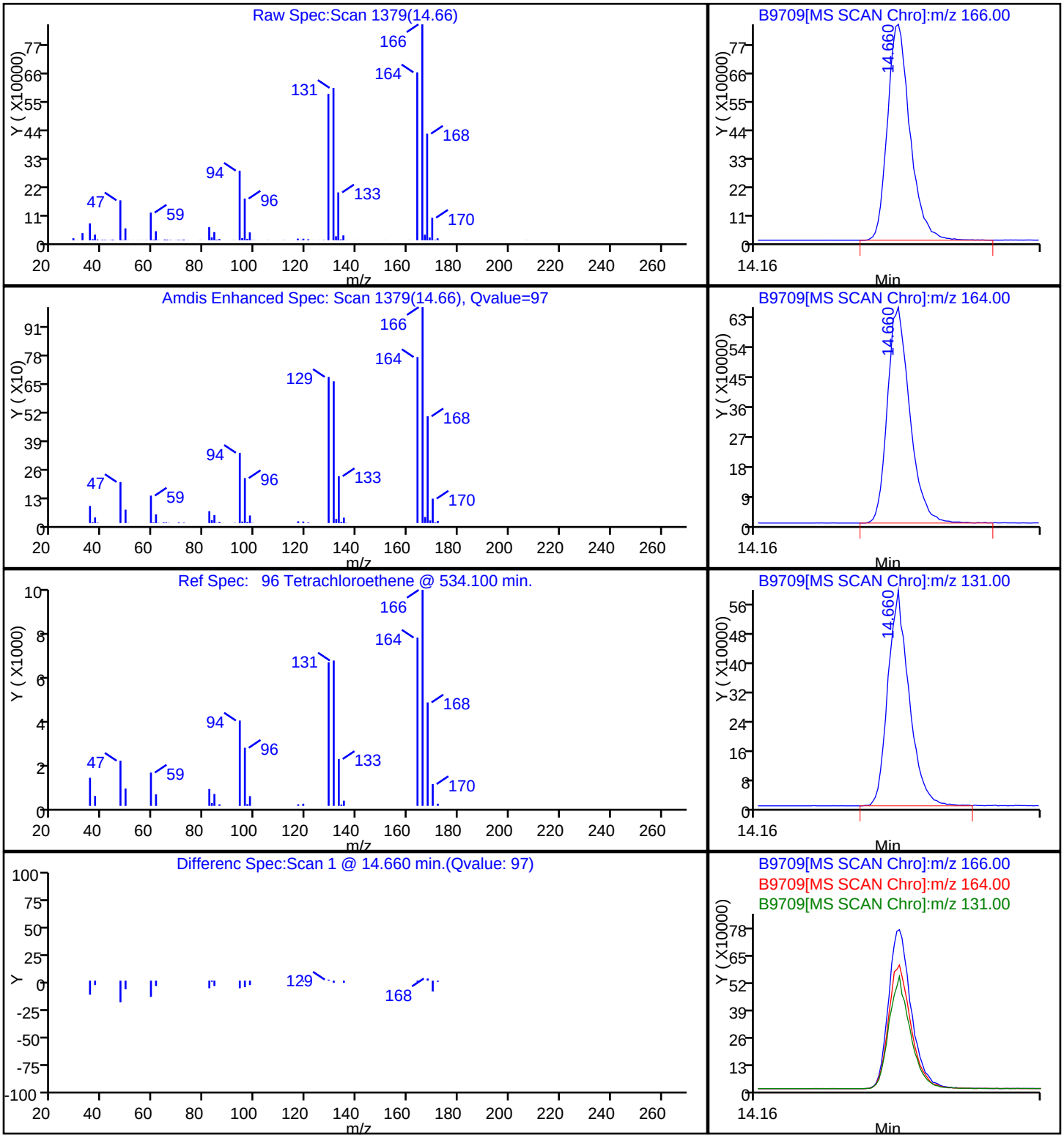


Report Date: 15-Feb-2013 00:29:03 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9709.D		
Injection Date:	14-Feb-2013 23:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-2	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	23
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

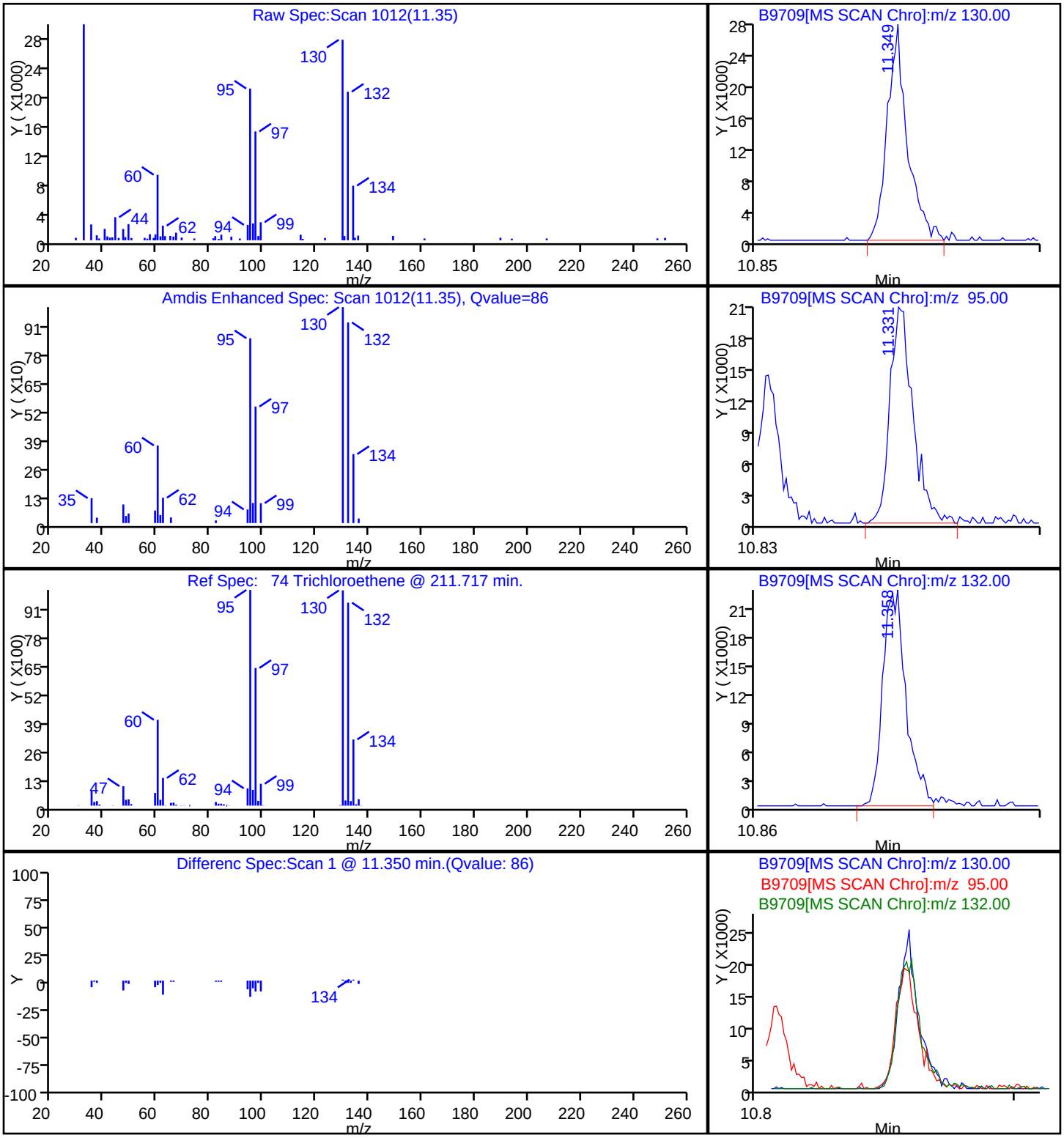


Report Date: 15-Feb-2013 00:29:02 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9709.D		
Injection Date:	14-Feb-2013 23:57:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-2	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	23
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-3 Lab Sample ID: 340-5923-8

Matrix: Air Lab File ID: B9710.D

Analysis Method: TO-15 MOD Date Collected: 01/22/2013 19:00

Sample wt/vol: 6(mL) Date Analyzed: 02/15/2013 00:37

Soil Aliquot Vol: Dilution Factor: 154

Soil Extract Vol.: GC Column: See SOP ID:

% Moisture: Level: (low/med) Low

Analysis Batch No.: 4057 Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		620	150
67-66-3	Chloroform	119.38	ND		620	150
75-35-4	1,1-Dichloroethene	96.94	ND		620	150
156-59-2	cis-1,2-Dichloroethene	96.94	2200		620	150
156-60-5	trans-1,2-Dichloroethene	96.94	ND		620	150
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		620	150
127-18-4	Tetrachloroethene	165.83	22000		620	150
108-88-3	Toluene	92.14	ND		620	150
79-01-6	Trichloroethene	131.39	1200		620	150
75-01-4	Vinyl chloride	62.50	ND		620	150

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-3 | Lab Sample ID: 340-5923-8

Matrix: Air | Lab File ID: B9710.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 19:00

Sample wt/vol: 6(mL) | Date Analyzed: 02/15/2013 00:37

Soil Aliquot Vol: | Dilution Factor: 154

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		2000	490
67-66-3	Chloroform	119.38	ND		3000	750
75-35-4	1,1-Dichloroethene	96.94	ND		2400	610
156-59-2	cis-1,2-Dichloroethene	96.94	8600		2400	610
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2400	610
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		2200	560
127-18-4	Tetrachloroethene	165.83	150000		4200	1000
108-88-3	Toluene	92.14	ND		2300	580
79-01-6	Trichloroethene	131.39	6200		3300	830
75-01-4	Vinyl chloride	62.50	ND		1600	390

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9710.D		
Lims ID:	340-5923-A-8	Client ID:	SVE-01-3
Inject. Date:	15-Feb-2013 00:37:30	Dil. Factor:	154.0000
Sample Type:	Client		
Sample ID:	340-5923-A-8		
Misc. Info.:	340-0002766-024		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	4057	Lims Sample ID:	24
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 01:07:39	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK004		

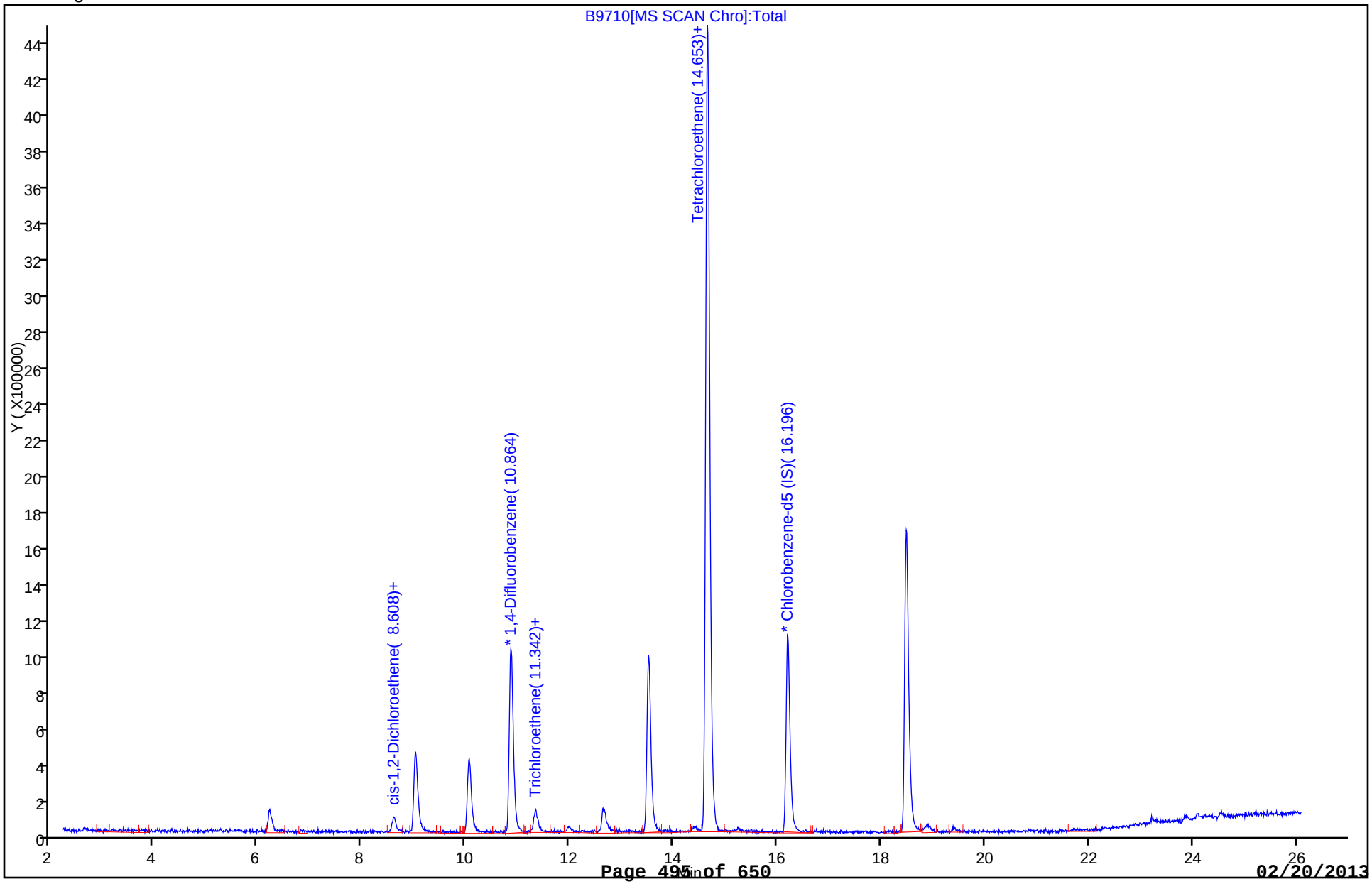
First Level Reviewer: donga Date: 15-Feb-2013 01:07:39

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.599	8.635	-0.036	94	104676	14.1	
* 56 Chlorobromomethane (IS)	130	9.032	9.059	-0.027	82	484674	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.070	10.088	-0.018	0	630823	57.3	
* 73 1,4-Difluorobenzene	114	10.864	10.900	-0.036	92	2298375	50.0	
74 Trichloroethene	130	11.351	11.360	-0.009	93	126029	7.47	
$ 85 Toluene-d8 (Surr)	100	13.525	13.543	-0.018	98	1191678	48.8	
96 Tetrachloroethene	166	14.662	14.689	-0.027	97	4560648	146.0	
* 102 Chlorobenzene-d5 (IS)	117	16.205	16.232	-0.027	87	1885916	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.497	18.515	-0.018	91	2014613	49.2	

Report Date: 15-Feb-2013 01:07:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9710.D		
Injection Date:	15-Feb-2013 00:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-3	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	24
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

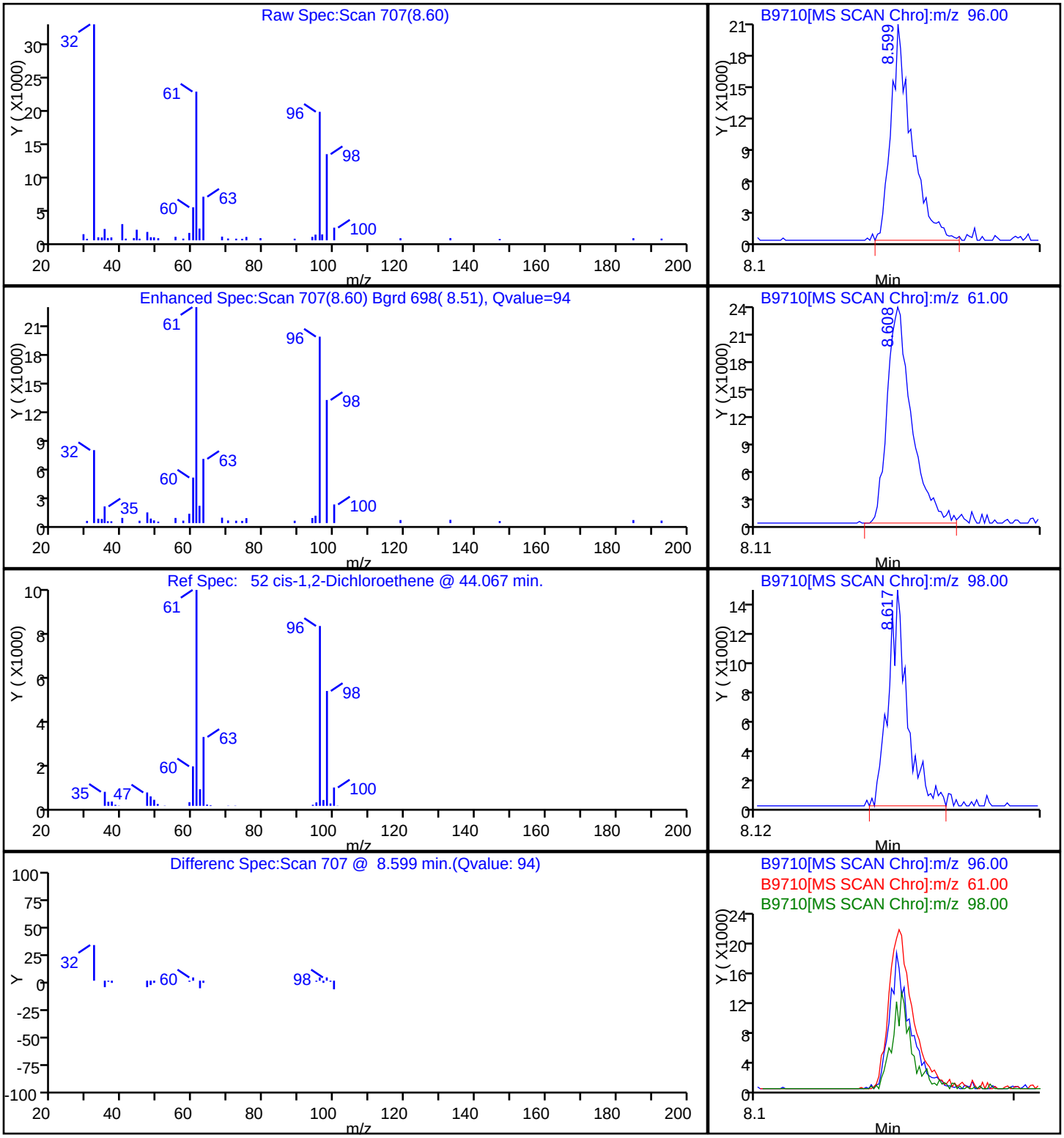


Report Date: 15-Feb-2013 01:07:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9710.D		
Injection Date:	15-Feb-2013 00:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-3	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	24
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

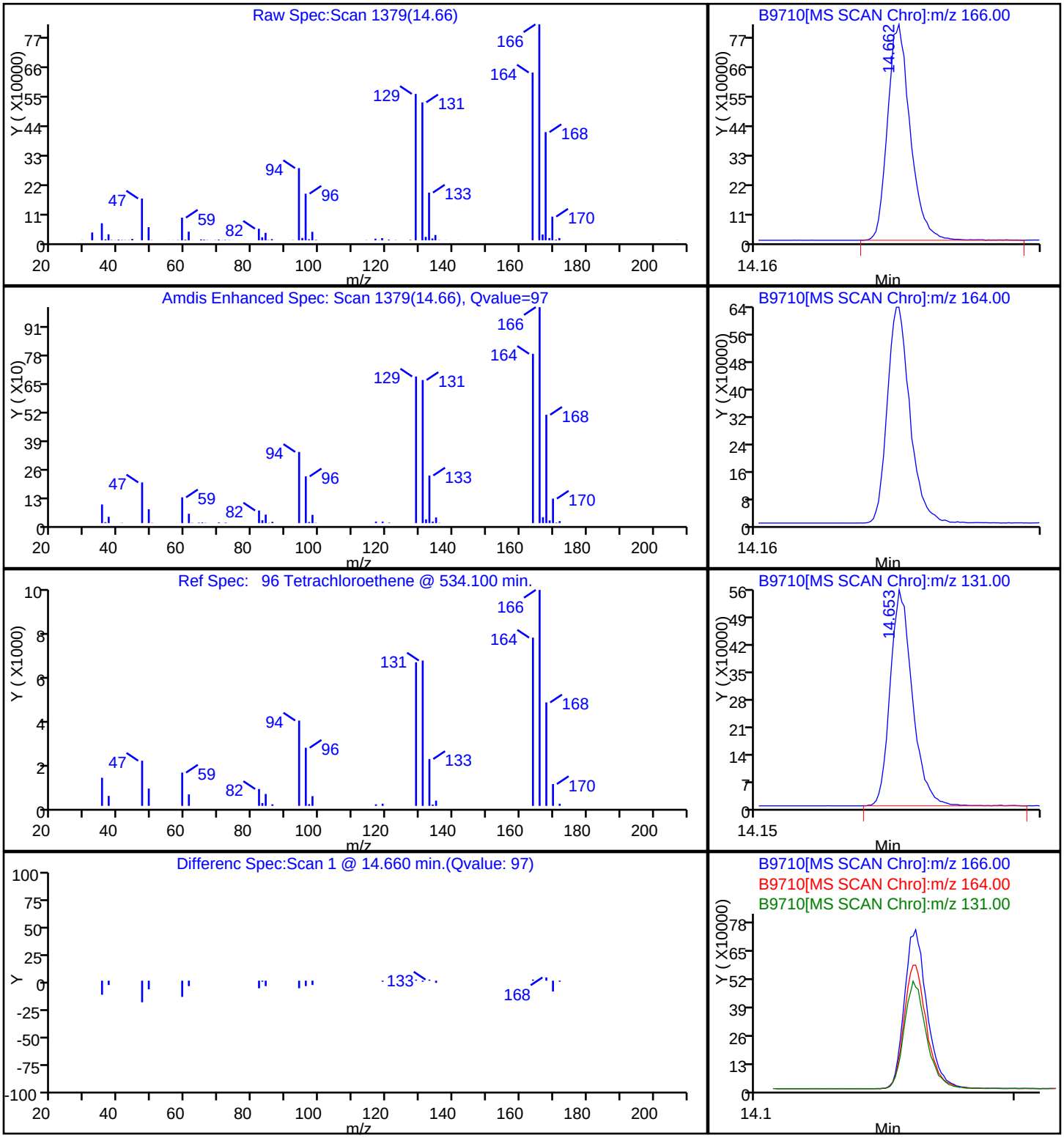


Report Date: 15-Feb-2013 01:07:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9710.D		
Injection Date:	15-Feb-2013 00:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-3	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	24
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

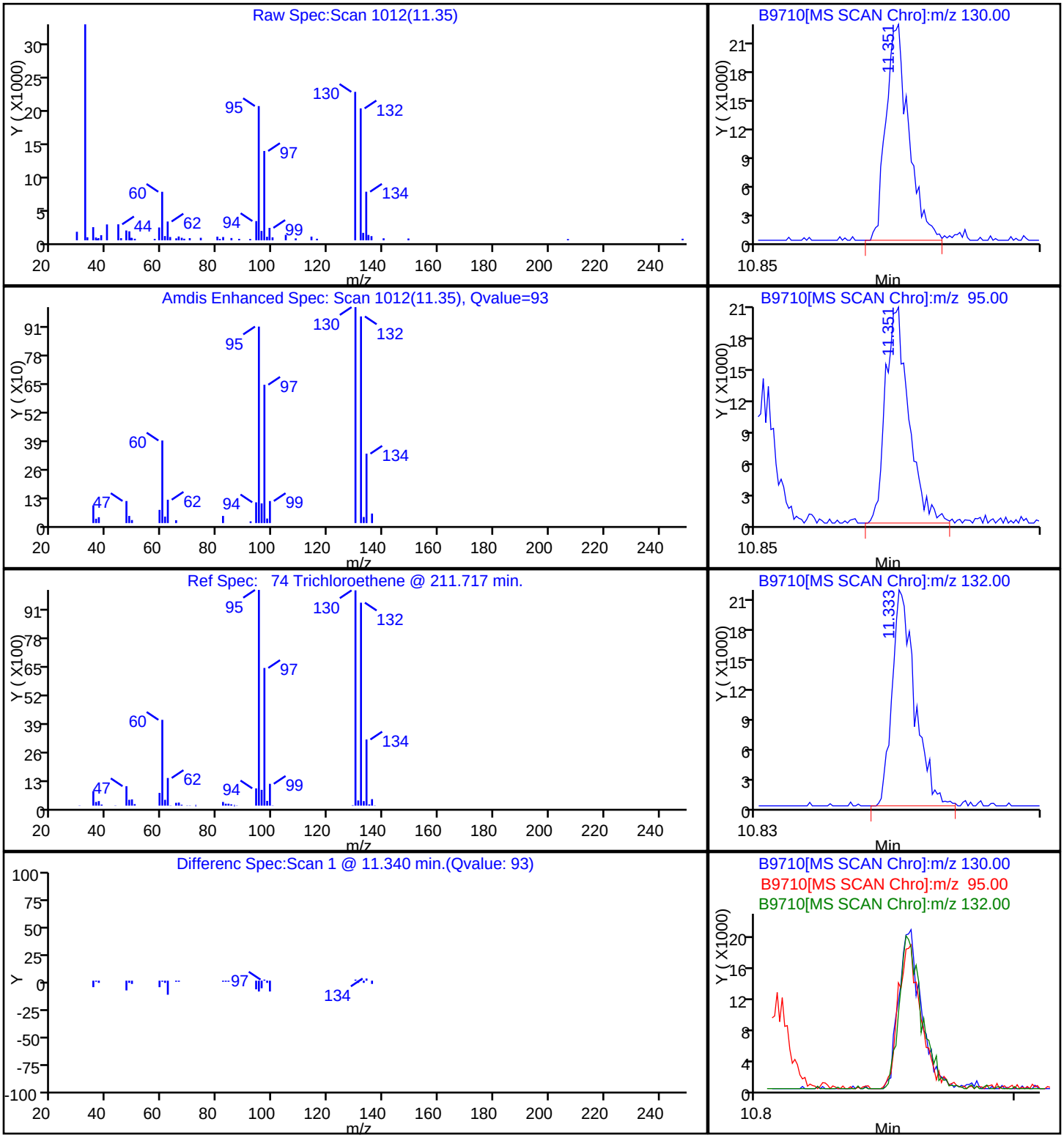


Report Date: 15-Feb-2013 01:07:40 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9710.D		
Injection Date:	15-Feb-2013 00:37:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-3	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	24
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-4 | Lab Sample ID: 340-5923-9

Matrix: Air | Lab File ID: B9711.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 20:00

Sample wt/vol: 8(mL) | Date Analyzed: 02/15/2013 01:18

Soil Aliquot Vol: | Dilution Factor: 124

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		500	120
67-66-3	Chloroform	119.38	ND		500	120
75-35-4	1,1-Dichloroethene	96.94	ND		500	120
156-59-2	cis-1,2-Dichloroethene	96.94	2300		500	120
156-60-5	trans-1,2-Dichloroethene	96.94	ND		500	120
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		500	120
127-18-4	Tetrachloroethene	165.83	20000		500	120
108-88-3	Toluene	92.14	ND		500	120
79-01-6	Trichloroethene	131.39	1100		500	120
75-01-4	Vinyl chloride	62.50	ND		500	120

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-4 | Lab Sample ID: 340-5923-9

Matrix: Air | Lab File ID: B9711.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 20:00

Sample wt/vol: 8(mL) | Date Analyzed: 02/15/2013 01:18

Soil Aliquot Vol: | Dilution Factor: 124

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		1600	400
67-66-3	Chloroform	119.38	ND		2400	610
75-35-4	1,1-Dichloroethene	96.94	ND		2000	490
156-59-2	cis-1,2-Dichloroethene	96.94	9000		2000	490
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2000	490
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1800	450
127-18-4	Tetrachloroethene	165.83	140000		3400	840
108-88-3	Toluene	92.14	ND		1900	470
79-01-6	Trichloroethene	131.39	6000		2700	670
75-01-4	Vinyl chloride	62.50	ND		1300	320

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		70-130
2037-26-5	Toluene-d8 (Surr)	103		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

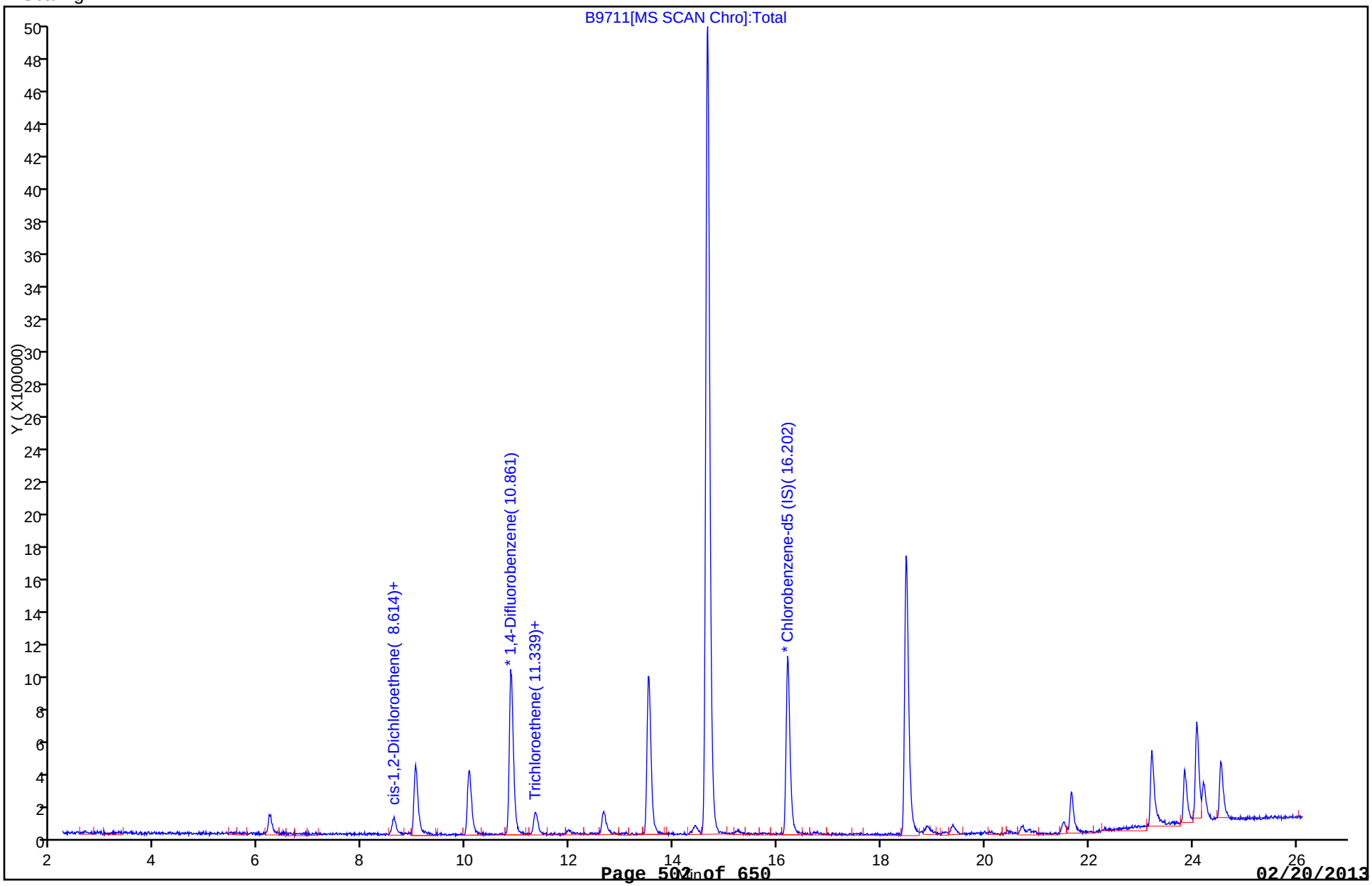
Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9711.D		
Lims ID:	340-5923-A-9	Client ID:	SVE-01-4
Inject. Date:	15-Feb-2013 01:18:30	Dil. Factor:	124.0000
Sample Type:	Client		
Sample ID:	340-5923-A-9		
Misc. Info.:	340-0002766-025		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	4057	Lims Sample ID:	25
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 10:30:04	Calib Date:	15-Feb-2013 06:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC0214F.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK020		
First Level Reviewer: almagroa		Date:	15-Feb-2013 10:32:37

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.605	8.635	-0.030	94	128155	18.2	
* 56 Chlorobromomethane (IS)	130	9.029	9.038	-0.009	84	460085	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.058	10.057	0.001	0	626044	47.1	
* 73 1,4-Difluorobenzene	114	10.861	10.869	-0.008	94	2293561	50.0	
74 Trichloroethene	130	11.330	11.360	-0.030	91	151586	9.00	
$ 85 Toluene-d8 (Surr)	100	13.522	13.513	0.009	98	1233608	51.4	
96 Tetrachloroethene	166	14.650	14.689	-0.039	98	5075154	164.6	
* 102 Chlorobenzene-d5 (IS)	117	16.202	16.202	0.0	85	1861337	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.485	18.484	0.001	92	2013891	50.4	

Report Date: 15-Feb-2013 10:32:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9711.D		
Injection Date:	15-Feb-2013 01:18:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-4	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	25
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

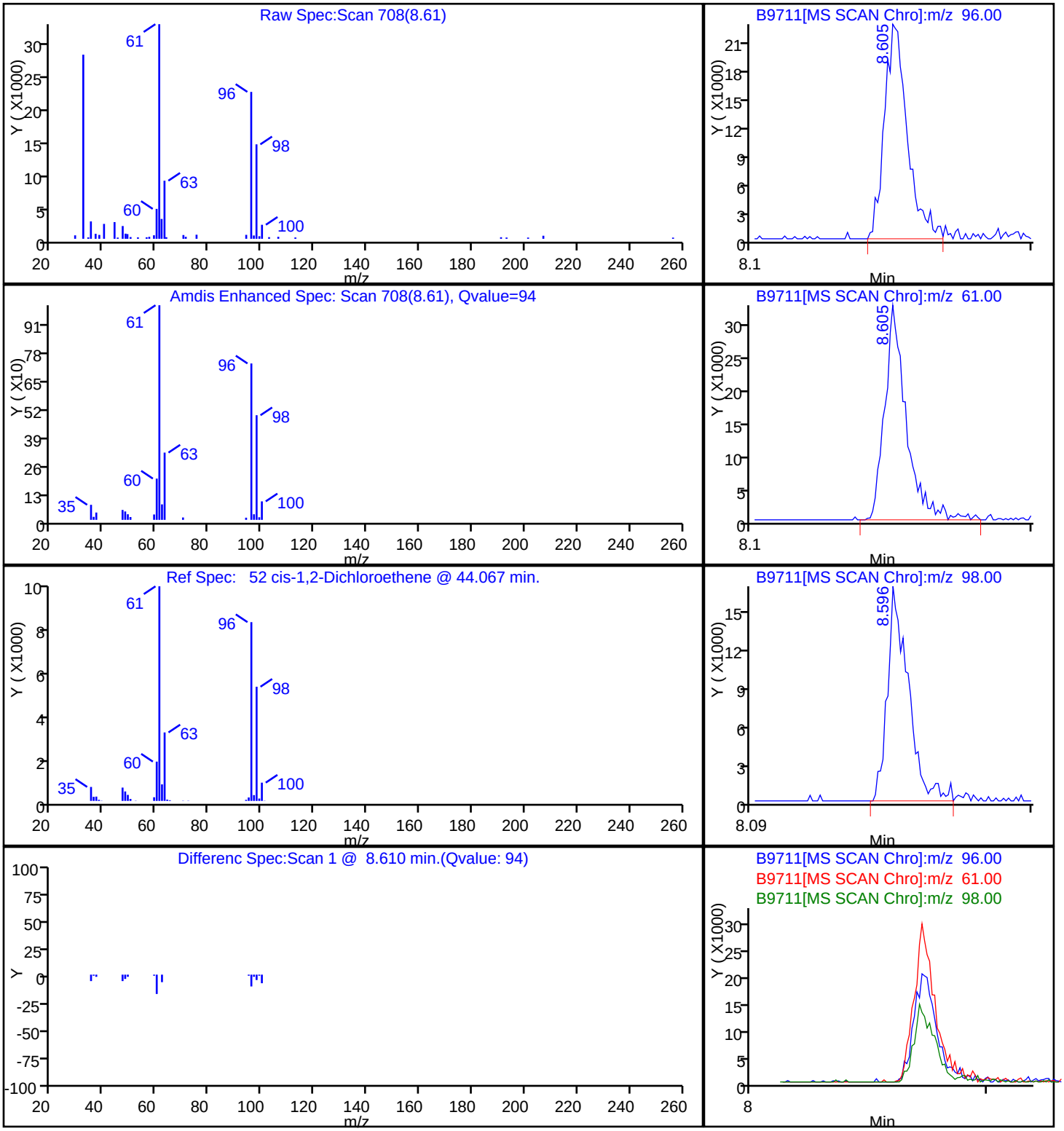


Report Date: 15-Feb-2013 10:32:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9711.D		
Injection Date:	15-Feb-2013 01:18:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-4	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	25
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

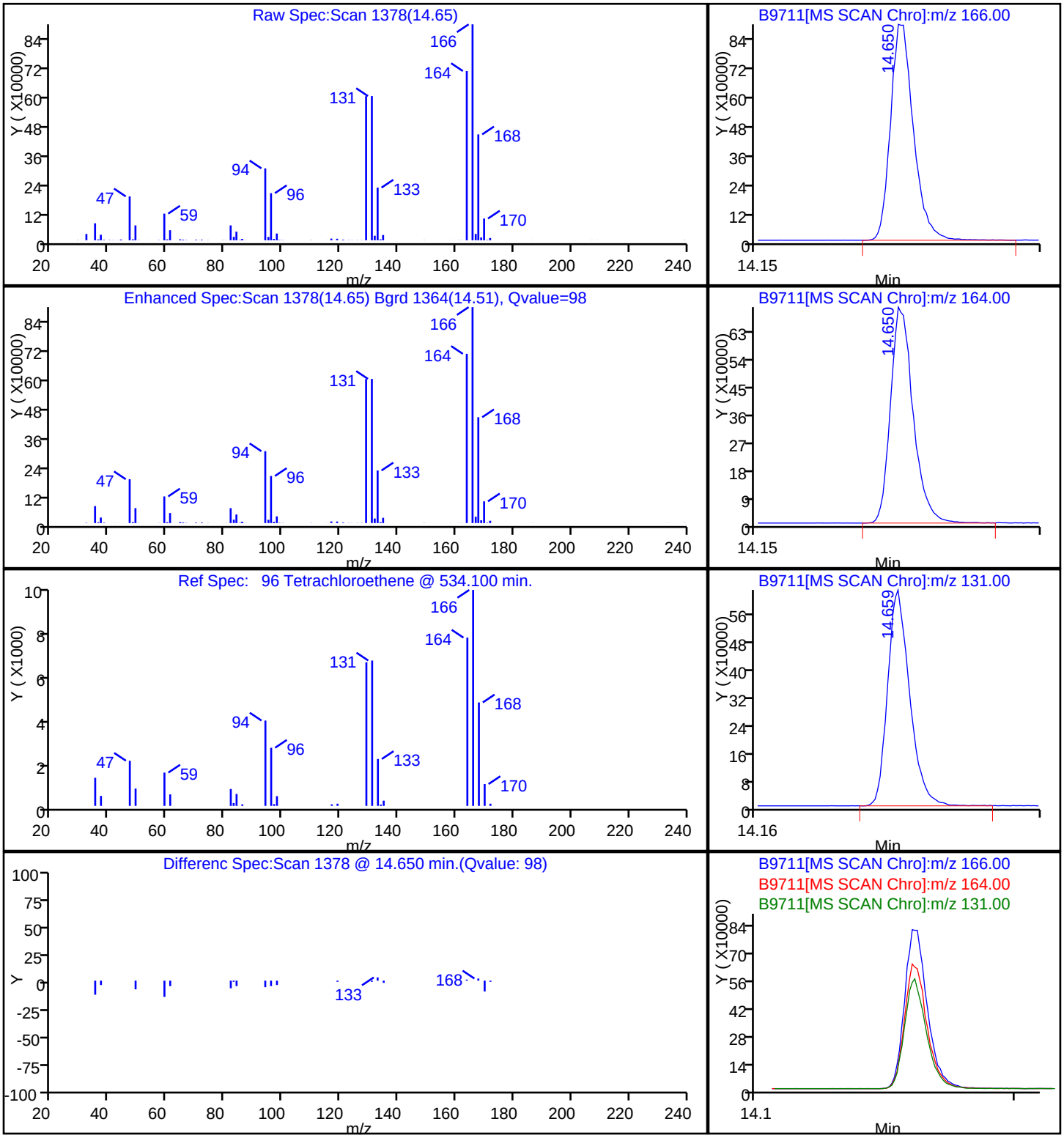


Report Date: 15-Feb-2013 10:32:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9711.D		
Injection Date:	15-Feb-2013 01:18:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-4	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	25
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

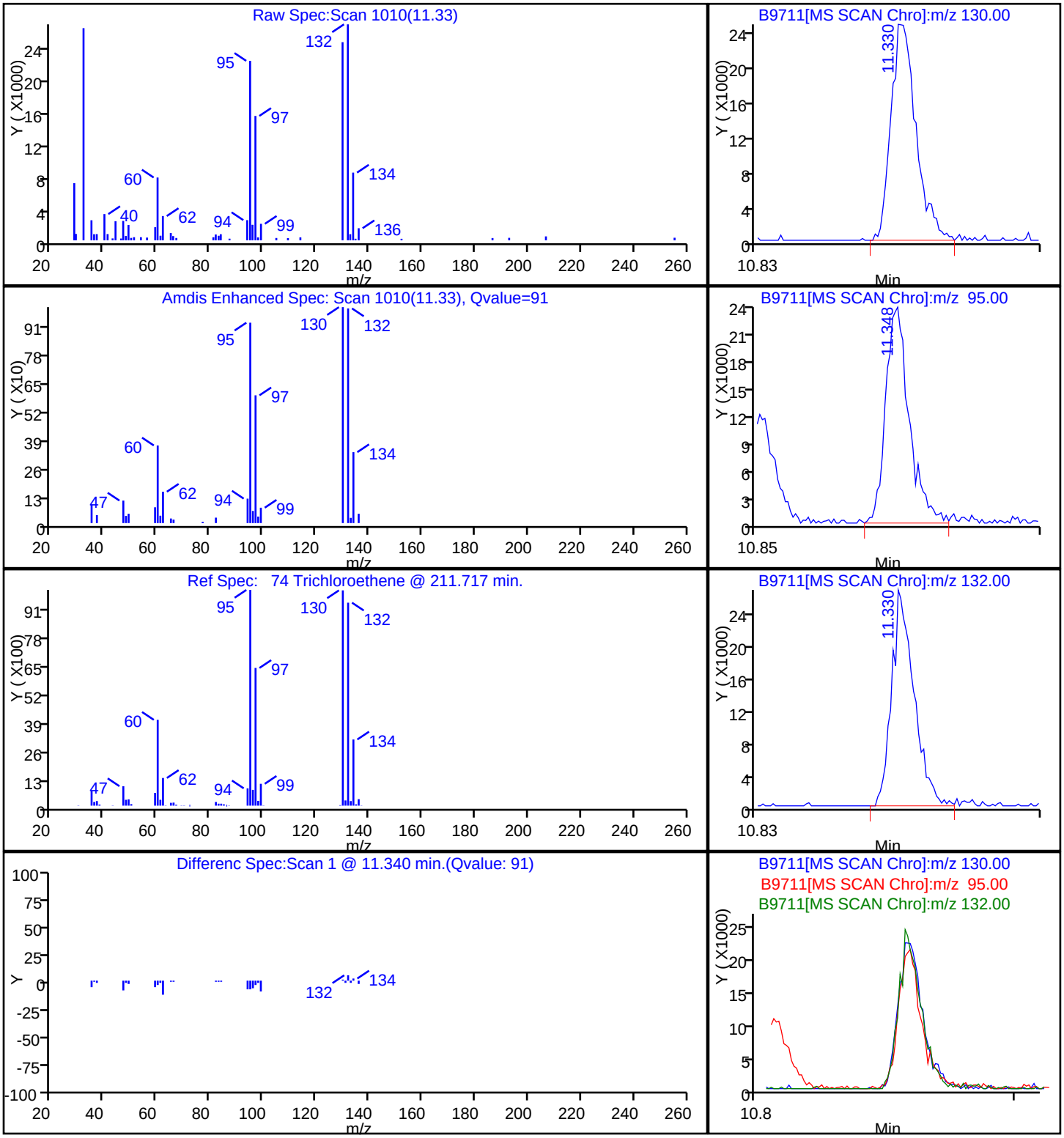


Report Date: 15-Feb-2013 10:32:38 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9711.D		
Injection Date:	15-Feb-2013 01:18:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-4	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	25
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-5 | Lab Sample ID: 340-5923-10

Matrix: Air | Lab File ID: B9712.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 21:00

Sample wt/vol: 7(mL) | Date Analyzed: 02/15/2013 01:58

Soil Aliquot Vol: | Dilution Factor: 130

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		520	130
67-66-3	Chloroform	119.38	ND		520	130
75-35-4	1,1-Dichloroethene	96.94	ND		520	130
156-59-2	cis-1,2-Dichloroethene	96.94	2200		520	130
156-60-5	trans-1,2-Dichloroethene	96.94	ND		520	130
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		520	130
127-18-4	Tetrachloroethene	165.83	21000		520	130
108-88-3	Toluene	92.14	ND		520	130
79-01-6	Trichloroethene	131.39	1100		520	130
75-01-4	Vinyl chloride	62.50	ND		520	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: SVE-01-5 | Lab Sample ID: 340-5923-10

Matrix: Air | Lab File ID: B9712.D

Analysis Method: TO-15 MOD | Date Collected: 01/22/2013 21:00

Sample wt/vol: 7(mL) | Date Analyzed: 02/15/2013 01:58

Soil Aliquot Vol: | Dilution Factor: 130

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		1700	420
67-66-3	Chloroform	119.38	ND		2500	630
75-35-4	1,1-Dichloroethene	96.94	ND		2100	520
156-59-2	cis-1,2-Dichloroethene	96.94	8500		2100	520
156-60-5	trans-1,2-Dichloroethene	96.94	ND		2100	520
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		1900	470
127-18-4	Tetrachloroethene	165.83	140000		3500	880
108-88-3	Toluene	92.14	ND		2000	490
79-01-6	Trichloroethene	131.39	5800		2800	700
75-01-4	Vinyl chloride	62.50	ND		1300	330

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	100		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9712.D		
Lims ID:	340-5923-A-10	Client ID:	SVE-01-5
Inject. Date:	15-Feb-2013 01:58:30	Dil. Factor:	130.0000
Sample Type:	Client		
Sample ID:	340-5923-A-10		
Misc. Info.:	340-0002766-026		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	5
Lims Batch ID:	4057	Lims Sample ID:	26
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 10:30:04	Calib Date:	15-Feb-2013 06:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC0214F.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK020		

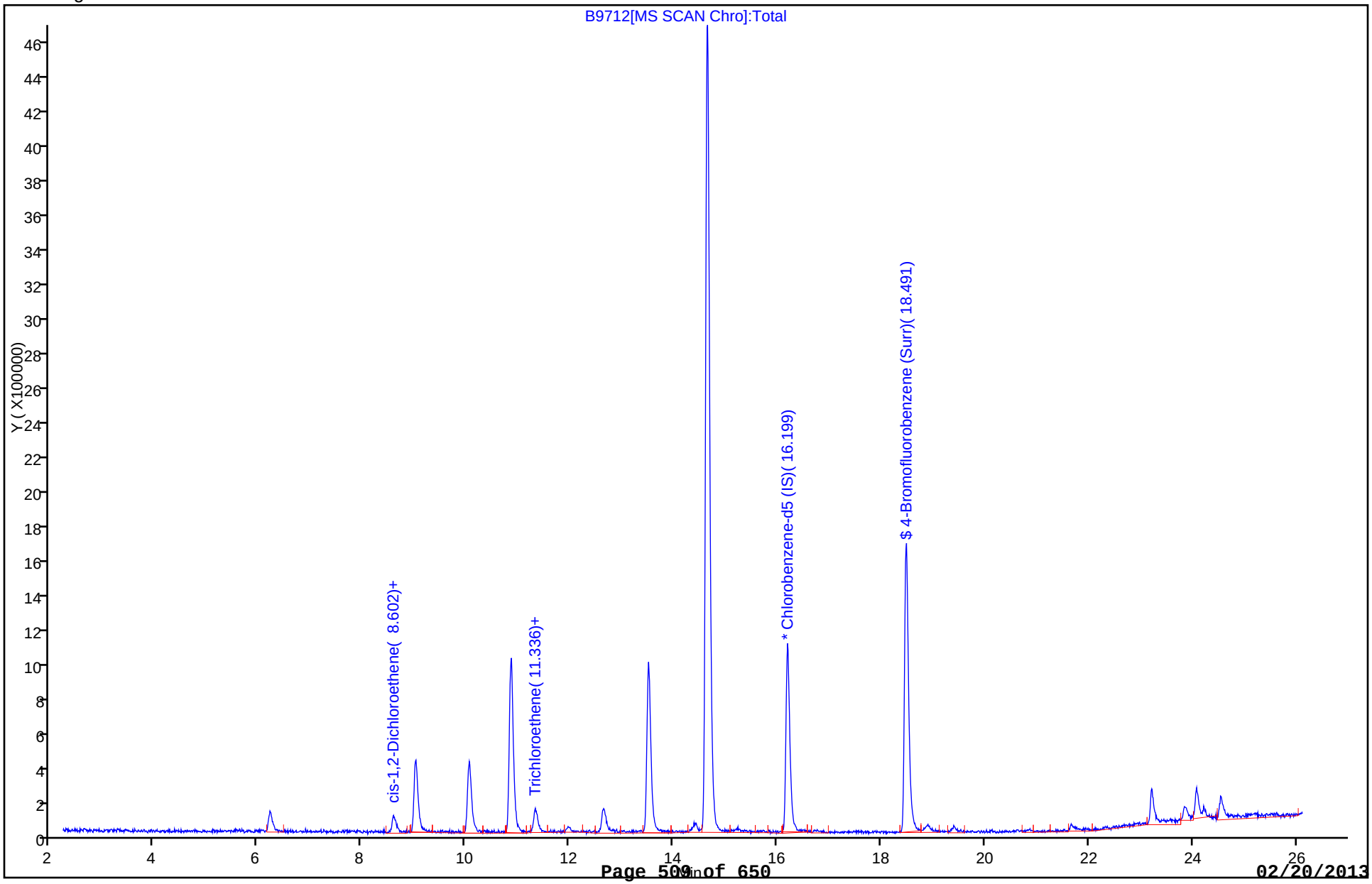
First Level Reviewer: almagroa Date: 15-Feb-2013 10:32:47

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
52 cis-1,2-Dichloroethene	96	8.602	8.635	-0.033	97	114116	16.6	
* 56 Chlorobromomethane (IS)	130	9.035	9.038	-0.003	86	449827	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.064	10.057	0.007	0	646781	49.8	
* 73 1,4-Difluorobenzene	114	10.876	10.869	0.007	92	2256248	50.0	
74 Trichloroethene	130	11.354	11.360	-0.006	88	136942	8.27	
$ 85 Toluene-d8 (Surr)	100	13.520	13.513	0.007	98	1195146	50.6	
96 Tetrachloroethene	166	14.657	14.689	-0.032	97	4862112	159.9	
* 102 Chlorobenzene-d5 (IS)	117	16.199	16.202	-0.003	88	1836102	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.491	18.484	0.007	92	1974260	50.1	

Report Date: 15-Feb-2013 10:32:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9712.D		
Injection Date:	15-Feb-2013 01:58:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-5	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	26
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			

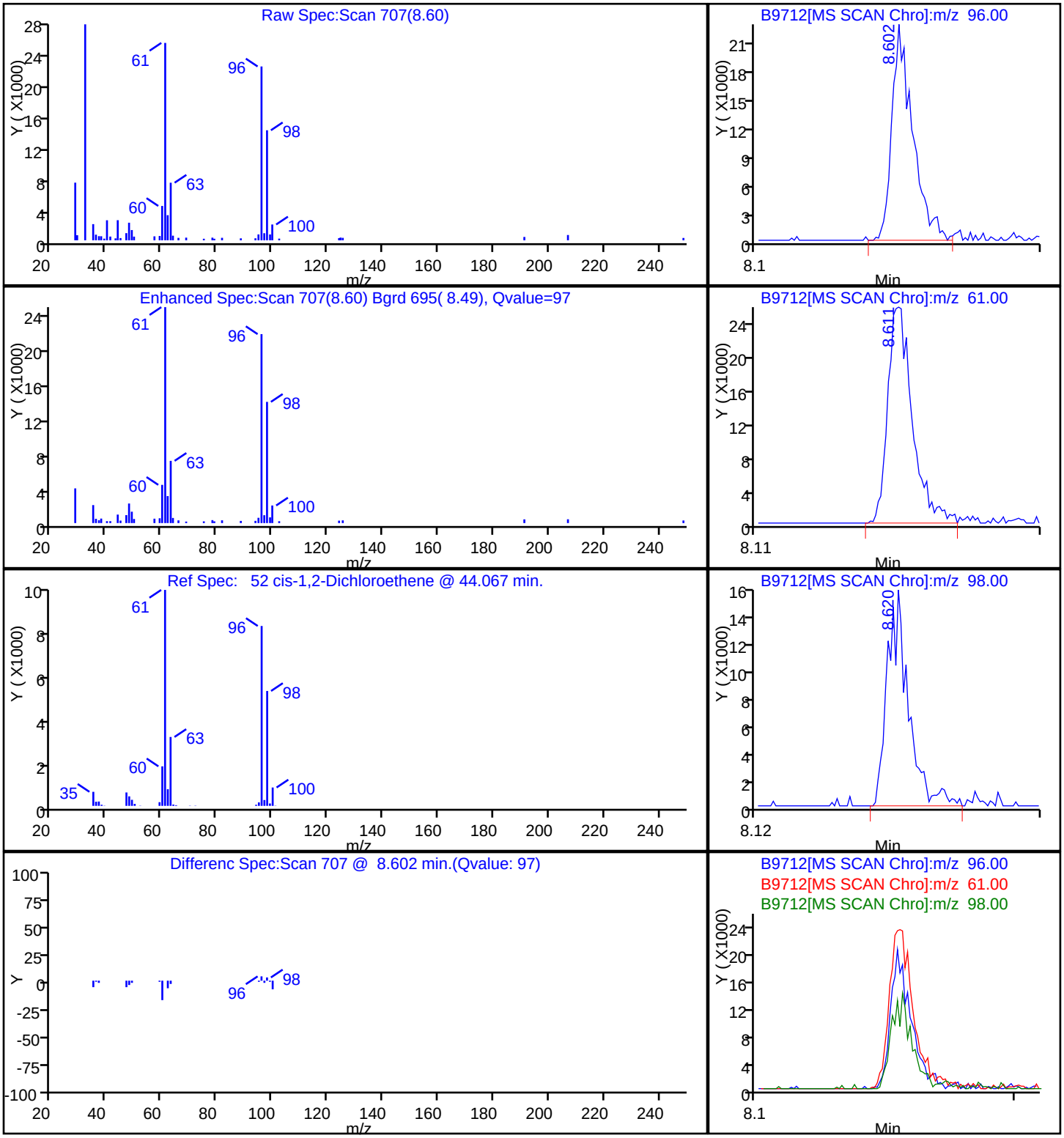


Report Date: 15-Feb-2013 10:32:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9712.D		
Injection Date:	15-Feb-2013 01:58:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-5	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	26
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

52 cis-1,2-Dichloroethene

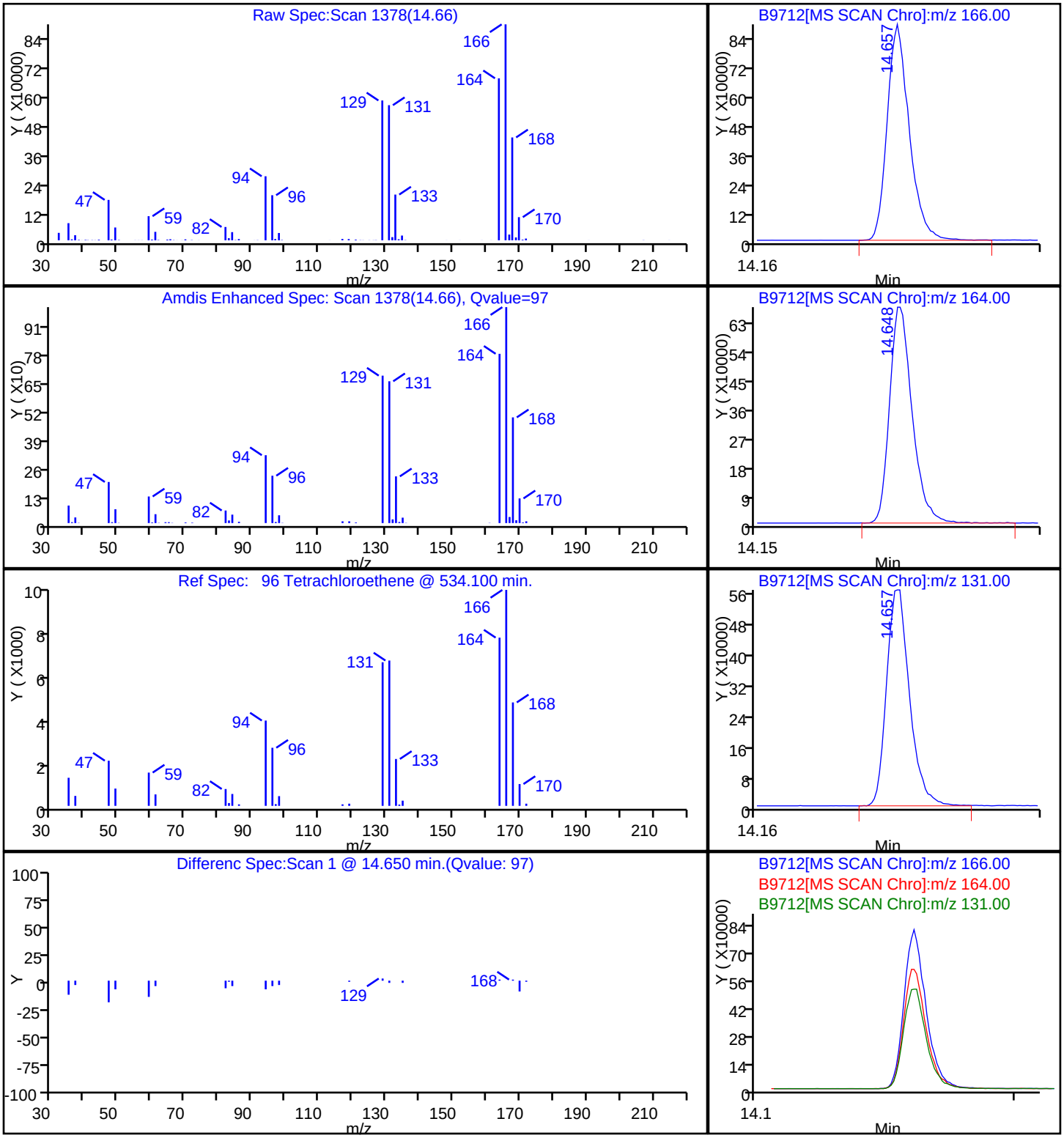


Report Date: 15-Feb-2013 10:32:48 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9712.D		
Injection Date:	15-Feb-2013 01:58:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-5	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	26
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

96 Tetrachloroethene

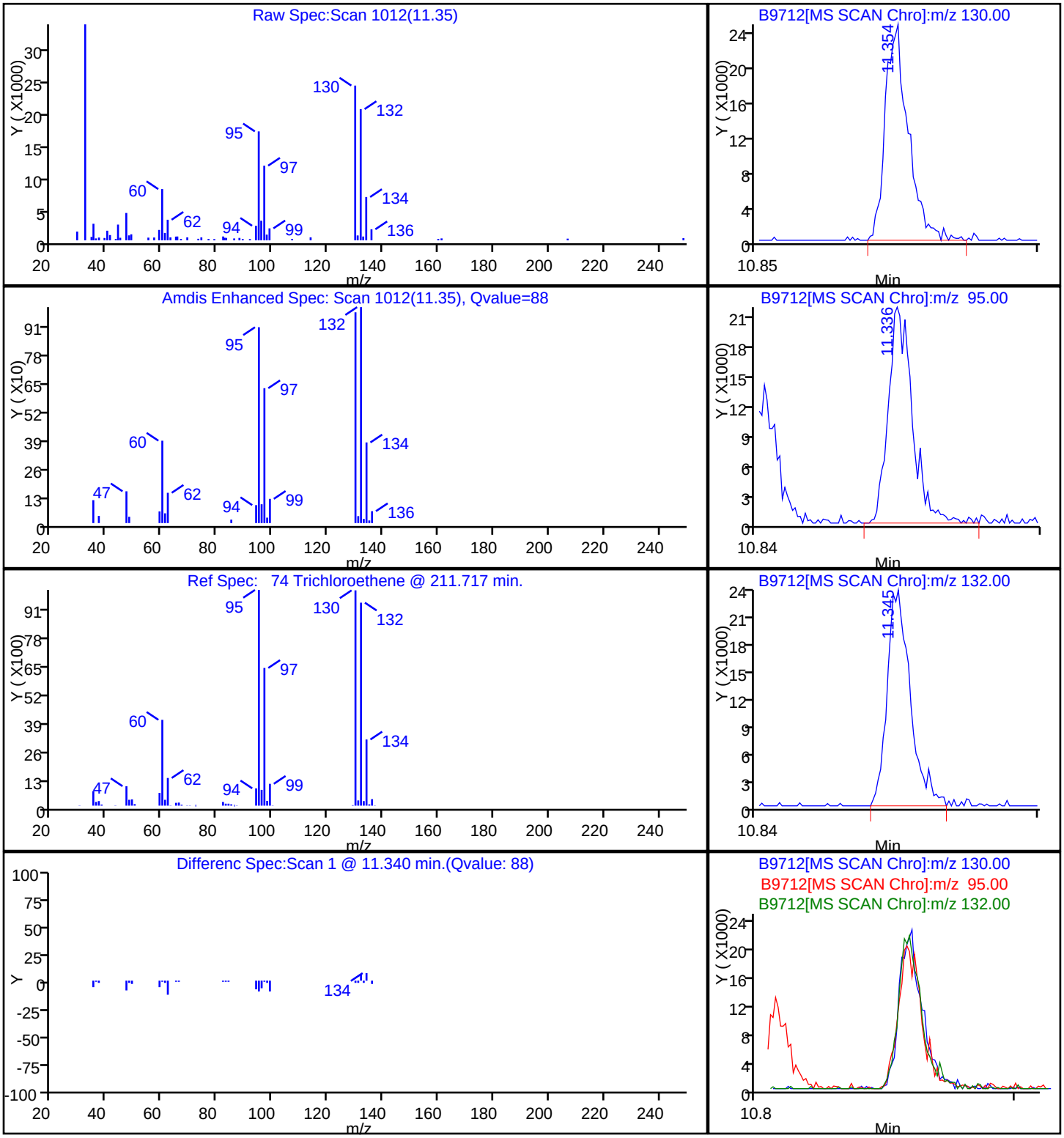


Report Date: 15-Feb-2013 10:32:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\B9712.D		
Injection Date:	15-Feb-2013 01:58:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	SVE-01-5	Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	26
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

74 Trichloroethene



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-4057/3	IC02141.D
Level 2	IC 340-4057/4	IC02142.D
Level 3	IC 340-4057/5	IC02143.D
Level 4	IC 340-4057/6	IC02144.D
Level 5	ICIS 340-4057/7	IC02145.D
Level 6	IC 340-4057/8	IC02146.D
Level 7	IC 340-4057/9	IC02147.D
Level 8	IC 340-4057/10	IC02148.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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Propylene	0.4421 0.2449	0.2971 0.2298	0.2677 0.2098	0.2635	0.1051	Ave		0.2311				27.0		30.0			
Dichlorodifluoromethane	2.3572 2.4961	2.8877 2.2209	3.0204 1.9926	2.7516	2.7308	Ave		2.5572				14.0		30.0			
Chlorodifluoromethane	1.1557 1.1564	1.2750 1.0452	1.3964 0.9623	1.2922	1.2626	Ave		1.1932				12.0		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.5458 2.5888	3.0658 2.2916	3.1905 2.0824	2.8592	2.7937	Ave		2.6772				14.0		30.0			
Chloromethane	0.6383 0.7652	0.9111 0.6515	0.9211 0.6341	0.8811	0.8313	Ave		0.7792				16.0		30.0			
Vinyl chloride	0.5679 0.5450	0.7304 0.5032	0.6608 0.4601	0.6006	0.5904	Ave		0.5823				15.0		30.0			
n-Butane	0.8691 0.7493	0.9676 0.6913	0.8670 0.6382	0.8418	0.8251	Ave		0.8062				13.0		30.0			
1,3-Butadiene	0.5243 0.4332	0.5541 0.3989	0.5462 0.3802	0.4639	0.4545	Ave		0.4694				14.0		30.0			
Bromomethane	0.4320 0.4373	0.6460 0.5571	0.4952 0.4403	0.5316	0.4613	Ave		0.5001				15.0		30.0			
Chloroethane	0.2294 0.2592	0.2939 0.2764	0.2949 0.2554	0.2564	0.2674	Ave		0.2666				8.2		30.0			
Vinyl bromide	0.8720 0.9958	1.1087 0.9581	1.1927 0.8842	1.0901	1.1254	Ave		1.0284				12.0		30.0			
Trichlorofluoromethane	2.4579 2.5090	2.9782 2.2220	3.1260 2.0180	3.0368	2.8126	Ave		2.6451				15.0		30.0			
n-Pentane	1.1324 1.1158	1.3908 1.0620	1.3678 0.9907	1.3045	1.2137	Ave		1.1972				12.0		30.0			
Diethyl ether	0.3309 0.4981	0.4902 0.4663	0.5094 0.4425	0.5485	0.5174	Ave		0.4754				14.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Acrolein	0.2127 0.1197	0.1786 0.1238	0.1918 0.1325	0.1541	0.1472	Ave		0.1576				21.0		30.0			
1,1-Dichloroethene	1.3287 1.2843	1.4532 1.1970	1.6017 1.1123	1.4477	1.4089	Ave		1.3542				12.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	2.6374 2.7971	3.1279 2.5129	3.4407 2.3512	3.1251	3.0412	Ave		2.8792				13.0		30.0			
Acetone	0.0991 0.2347	0.1751 0.2330	0.2452 0.2109	0.2631	0.2696	Ave		0.2331				14.0		30.0			
Carbon disulfide	1.4314 1.5309	1.6291 1.4547	1.7365 1.3504	1.6019	1.6160	Ave		1.5439				8.2		30.0			
2-Propanol	0.5934 0.8648	0.7019 0.8518	0.9844 0.7784	0.8793	0.9381	Ave		0.8240				16.0		30.0			
Allyl chloride	 0.7064	 0.7399	0.5437 0.5959	0.7125	0.6855	Ave		0.6640				12.0		30.0			
Methylene chloride	3.9791 0.7001	3.1532 0.6594	1.5446 0.5907	1.1120	0.8286	Lin2	11.203	0.5882							0.9950		0.9900
n-Hexane	+++++ 1.0149	1.2631 0.9237	1.0971 0.8611	1.1297	1.0715	Ave		1.0516				13.0		30.0			
Acrylonitrile	 0.3344	 0.3363	0.3468 0.3124	0.3048	0.3459	Ave		0.3301				5.3		30.0			
Vinyl acetate	+++++ 1.1475	1.5434 0.6923	1.7967 +++++	1.7895	1.6175	Ave		1.5789				17.0		30.0			
trans-1,2-Dichloroethene	1.1675 1.2446	1.4872 1.1488	1.4833 1.0411	1.3598	1.3611	Ave		1.2867				13.0		30.0			
Methyl-t-Butyl Ether (MTBE)	1.9811 2.0748	2.4357 1.8531	2.4804 1.6622	2.3141	2.2420	Ave		2.1304				14.0		30.0			
C6 Range	7.2258 5.4040	7.1006 4.8735	6.9923 4.5328	6.1152	5.6734	Ave		5.9897				17.0		30.0			
1,1-Dichloroethane	1.2442 1.3942	1.4659 1.2697	1.5189 1.1683	1.5436	1.4467	Ave		1.3814				10.0		30.0			
Ethyl acetate	+++++ 1.8521	 1.6637	2.2677 1.4797	2.1427	1.9547	Ave		1.8934				16.0		30.0			
cis-1,2-Dichloroethene	0.6268 0.7774	0.8464 0.7190	0.8719 0.6504	0.8261	0.7999	Ave		0.7647				12.0		30.0			
2-Butanone (MEK)	0.2349 0.2776	0.2361 0.2604	0.3088 0.2416	0.2906	0.3055	Ave		0.2694				11.0		30.0			
Tetrahydrofuran	0.5873 0.6505	0.7220 0.5843	0.7603 0.5653	0.7215	0.6711	Ave		0.6578				11.0		30.0			
Chloroform	1.7462 1.7640	2.0554 1.5703	2.0272 1.4549	1.8591	1.8908	Ave		1.7960				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,1-Trichloroethane	1.7178 1.7783	2.0139 1.5957	2.0928 1.4959	2.0474	1.9546	Ave		1.8371				12.0		30.0			
Cyclohexane	0.8121 0.8683	1.0048 0.7831	0.9709 0.7352	0.9838	0.9481	Ave		0.8883				12.0		30.0			
Carbon tetrachloride	1.1914 1.6055	1.6704 1.3915	1.6776 1.3275	1.6385	1.7362	Ave		1.5298				13.0		30.0			
Benzene	0.5985 0.4883	0.5089 0.4837	0.5040 0.4795	0.4819	0.5072	Ave		0.5065				7.7		30.0			
1,2-Dichloroethane	0.1317 0.2803	0.2857 0.2760	0.2933 0.2739	0.2691	0.2909	Ave		0.2813				3.2		30.0			
2,2,4-Trimethylpentane	1.1942 1.3421	1.3352 1.3136	1.3985 1.2950	1.3609	1.3880	Ave		1.3285				4.9		30.0			
1,4-Dioxane	+++++ 0.1440	0.1417 0.1322	0.1490 0.1362	0.1387	0.1447	Ave		0.1409				4.0		30.0			
n-Heptane	0.3796 0.4544	0.4757 0.4585	0.4564 0.4645	0.4564	0.4592	Ave		0.4506				6.5		30.0			
Toluene Range	 0.2567	 +++++	 0.1689	0.4305	0.1557	Ave		0.2529				50.0	*	30.0			
Trichloroethene	0.2989 0.3803	0.3645 0.3758	0.3821 0.3699	0.3785	0.3868	Ave		0.3671				7.7		30.0			
1,2-Dichloropropane	0.1093 0.1192	0.1085 0.1147	0.1301 0.1124	0.1198	0.1222	Ave		0.1170				6.2		30.0			
Dibromomethane	0.7703 0.5179	0.7102 0.5027	0.5702 0.4975	0.5132	0.5297	Ave		0.5765				18.0		30.0			
Methyl methacrylate	0.1938 0.2497	0.2492 0.2472	0.2618 0.2442	0.2502	0.2552	Ave		0.2439				8.6		30.0			
Bromodichloromethane	0.3402 0.3984	0.3701 0.3897	0.3906 0.3850	0.3822	0.4014	Ave		0.3822				5.1		30.0			
1,1,2-Trichloroethane	+++++ 0.4053	0.3849 0.3863	0.4052 0.3861	0.4120	0.4241	Ave		0.4006				3.8		30.0			
cis-1,3-Dichloropropene	0.2292 0.3979	0.3832 0.3636	0.3783 0.3504	0.3927	0.4046	Ave		0.3625				16.0		30.0			
4-Methyl-2-pentanone (MIBK)	0.1439 0.2221	0.2099 0.2201	0.2109 0.2206	0.2071	0.2192	Ave		0.2067				13.0		30.0			
Toluene	0.4385 0.6428	0.6058 0.6283	0.6373 0.6217	0.6172	0.6377	Ave		0.6037				11.0		30.0			
n-Octane	0.6954 0.8850	0.8518 0.8705	0.9317 0.8593	0.8763	0.9087	Ave		0.8598				8.3		30.0			
trans-1,3-Dichloropropene	0.3123 0.4634	0.3856 0.4335	0.4608 0.4142	0.4449	0.4662	Ave		0.4226				12.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
TVOC as Toluene	182.77	+++++	167.10	181.83	192.13	Ave		0.2529				50.0	*	30.0			
Tetrachloroethene	0.6617 0.8530	0.8188 0.8062	0.9121 0.8129	0.8712	0.8892	Ave		0.8281				9.3		30.0			
PCE Range	8.6544 4.3967	5.0441 3.9610	4.9768 4.2609	4.6114	4.6126	Ave		4.5519				8.5		30.0			
2-Hexanone	0.2096 0.3446	0.3130 0.3367	0.2917 0.3431	0.3164	0.3389	Ave		0.3118				14.0		30.0			
Dibromochloromethane	0.5713 0.9721	0.6640 0.9351	0.8828 0.9288	0.8809	0.9766	Ave		0.8514				18.0		30.0			
1,2-Dibromoethane (EDB)	0.5594 0.8487	0.7722 0.8089	0.8484 0.7940	0.8395	0.8713	Ave		0.7928				13.0		30.0			
Isopropylbenzene	+++++ 0.4443	0.3518 0.4187	0.4443 0.4029	0.4408	0.4451	Ave		0.4211				8.2		30.0			
Chlorobenzene	0.5335 0.7094	0.6584 0.6912	0.7059 0.6830	0.7161	0.7131	Ave		0.6763				9.0		30.0			
Ethylbenzene	0.7755 1.1497	1.0671 1.0940	1.1118 1.0728	1.1488	1.1615	Ave		1.0727				12.0		30.0			
m,p-Xylene	0.6294 0.9677	0.8193 0.8965	0.9839 0.8637	0.9826	1.0066	Ave		0.8937				14.0		30.0			
n-Nonane	0.5941 1.0439	0.8756 0.9903	1.0502 0.9722	1.0769	1.0778	Ave		0.9601				17.0		30.0			
4-Ethyltoluene	+++++ 0.3759	0.2773 0.3733	0.3896 0.3708	0.4004	0.4014	Ave		0.3698				12.0		30.0			
1,3,5-Trimethylbenzene	+++++ 0.6680	0.5194 0.5941	0.6485 0.5968	0.6394	0.6770	Ave		0.6204				8.8		30.0			
o-Xylene	0.2594 0.4504	0.3763 0.4281	0.4600 0.4157	0.4443	0.4598	Ave		0.4118				16.0		30.0			
Styrene	0.3533 0.6646	0.4880 0.6340	0.6211 0.6194	0.6291	0.6636	Ave		0.5841				19.0		30.0			
Bromoform	0.4934 1.2272	0.7842 1.1817	0.9688 1.1468	1.0647	1.2063	Ave		1.0828				15.0		30.0			
1,1,2,2-Tetrachloroethane	0.5273 0.9886	0.8008 0.9308	0.9633 0.8951	0.9715	1.0067	Ave		0.8855				18.0		30.0			
1,2,3-Trichloropropane	0.1703 0.3246	0.2824 0.3010	0.3353 0.2883	0.3351	0.3416	Ave		0.3155				7.8		30.0			
n-Propylbenzene	0.9747 1.7701	1.4367 1.6212	1.7724 1.5560	1.7771	1.8056	Ave		1.5892				18.0		30.0			
2-Chlorotoluene	0.2200 0.3810	0.3138 0.3558	0.3869 0.3373	0.3853	0.3876	Ave		0.3460				17.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
n-Decane	0.4979 1.1497	0.8956 1.0544	1.1141 0.9977	1.1579	1.1838	Ave		1.0790				9.6		30.0			
alpha-Methylstyrene	0.2140 0.5625	0.3757 0.5294	0.4922 0.5091	0.5180	0.5577	Ave		0.5064				12.0		30.0			
tert-Butylbenzene	0.4796 1.0647	0.8330 0.9718	1.0402 0.9182	1.1127	1.1089	Ave		1.0071				10.0		30.0			
1,2,4-Trimethylbenzene	0.2949 0.5985	0.4170 0.5707	0.5869 0.5189	0.6186	0.5924	Ave		0.5576				12.0		30.0			
sec-Butylbenzene	0.9823 2.0338	1.5545 1.8351	2.0402 1.7363	2.0939	2.1150	Ave		1.9155				11.0		30.0			
1,3-Dichlorobenzene	0.4240 0.9089	0.7018 0.8611	0.9058 0.7948	0.9551	0.9423	Ave		0.8671				10.0		30.0			
4-Isopropyltoluene	0.7872 1.7250	1.2762 1.5708	1.7156 1.4532	1.7625	1.7843	Ave		1.6125				12.0		30.0			
1,4-Dichlorobenzene	0.4854 0.9412	0.8144 0.8890	0.9381 0.8235	0.9860	1.0060	Ave		0.9140				8.2		30.0			
Benzyl chloride	0.3918 0.9991	0.5981 0.9356	0.8346 0.8855	0.8633	0.9772	Ave		0.8705				15.0		30.0			
Naphthalene	+++++ 1.1339	0.4977 1.0862	0.9089 1.0102	1.1681	1.2253	Ave		1.0043				25.0		30.0			
n-Butylbenzene	0.4220 0.8186	0.5457 0.7510	0.7798 0.7018	0.7917	0.8137	Ave		0.7432				13.0		30.0			
1,2-Dichlorobenzene	0.4349 0.8778	0.6830 0.7875	0.8596 0.7354	0.9211	0.9166	Ave		0.8258				11.0		30.0			
n-Undecane	0.5203 1.3537	0.8211 1.2427	1.2836 1.1363	1.3679	1.3698	Ave		1.2250				16.0		30.0			
n-Dodecane	1.4094 0.7909	0.5046 0.8397	0.7398 0.7683	0.9476	0.9568	Ave		0.7925				19.0		30.0			
1,2,4-Trichlorobenzene	0.2023 0.8561	0.3946 0.8255	0.7258 0.7848	0.8834	0.9064	Ave		0.8303				8.0		30.0			
Hexachlorobutadiene	0.3417 1.1203	0.5911 1.0375	0.9838 0.9701	1.1679	1.1600	Ave		1.0044				20.0		30.0			
1,2,3-Trichlorobenzene	0.3383 0.8000	0.3814 0.7461	0.6319 0.7133	0.8266	0.8620	Ave		0.7088				23.0		30.0			
1,2-Dichloroethane-d4 (Surr)	1.1791 1.1376	1.2062 1.0838	1.1472 1.0549	1.1678	1.1061	Ave		1.1353				4.5		30.0			
Toluene-d8 (Surr)	0.5246 0.5394	0.5364 0.5423	0.5015 0.5415	0.5289	0.5342	Ave		0.5311				2.5		30.0			
4-Bromofluorobenzene (Surr)	1.1403 1.0803	1.1202 1.0248	1.1265 0.9997	1.1003	1.0846	Ave		1.0846				4.6		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-4057/3	IC02141.D
Level 2	IC 340-4057/4	IC02142.D
Level 3	IC 340-4057/5	IC02143.D
Level 4	IC 340-4057/6	IC02144.D
Level 5	ICIS 340-4057/7	IC02145.D
Level 6	IC 340-4057/8	IC02146.D
Level 7	IC 340-4057/9	IC02147.D
Level 8	IC 340-4057/10	IC02148.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
Propylene	CBM	Ave	13439 405735	17105 815500	39492 970401	80627	82742	2.28 114	4.56 228	11.4 285	22.8	57.0
Dichlorodifluoromethane	CBM	Ave	62856 3628243	145847 6914968	390882 8086104	738675	1885666	2.00 100	4.00 200	10.0 250	20.0	50.0
Chlorodifluoromethane	CBM	Ave	32667 1781741	68263 3449390	191549 4139355	367704	924157	2.12 106	4.24 212	10.6 265	21.2	53.0
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	67884 3762999	154847 7134960	412891 8450661	767557	1929037	2.00 100	4.00 200	10.0 250	20.0	50.0
Chloromethane	CBM	Ave	17020 1112245	46018 2028386	119206 2573176	236524	574032	2.00 100	4.00 200	10.0 250	20.0	50.0
Vinyl chloride	CBM	Ave	15142 792197	36888 1566700	85516 1866985	161234	407669	2.00 100	4.00 200	10.0 250	20.0	50.0
n-Butane	CBM	Ave	24798 1165464	52294 2302982	120057 2771364	241805	609589	2.14 107	4.28 214	10.7 268	21.4	53.5
1,3-Butadiene	CBM	Ave	14820 667476	29663 1316453	74924 1635626	132017	332635	2.12 106	4.24 212	10.6 265	21.2	53.0
Bromomethane	CBM	Ave	11519 635689	32627 1734568	64084 1786872	142707	318542	2.00 100	4.00 200	10.0 250	20.0	50.0
Chloroethane	CBM	Ave	6116 376741	14842 860645	38169 1036529	68830	184616	2.00 100	4.00 200	10.0 250	20.0	50.0
Vinyl bromide	CBM	Ave	20694 1288235	49837 2654990	137376 3193477	260454	691608	1.78 89.0	3.56 178	8.90 223	17.8	44.5
Trichlorofluoromethane	CBM	Ave	65542 3646950	150421 6918320	404547 8189126	815234	1942132	2.00 100	4.00 200	10.0 250	20.0	50.0
n-Pentane	CBM	Ave	30197 1621802	70244 3306539	177009 4020177	350187	838072	2.00 100	4.00 200	10.0 250	20.0	50.0
Diethyl ether	CBM	Ave	8823 724043	24757 1451922	65924 1795695	147246	357268	2.00 100	4.00 200	10.0 250	20.0	50.0
Acrolein	CBM	Ave	5672 174059	9022 385566	24824 537758	41377	101622	2.00 100	4.00 200	10.0 250	20.0	50.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
1,1-Dichloroethene	CBM	Ave	35431 1866815	73395 3726875	207275 4513846	388648	972883	2.00 100	4.00 200	10.0 250	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	70327 4065710	157981 7824120	445277 9541144	838941	2099997	2.00 100	4.00 200	10.0 250	20.0	50.0
Acetone	CBM	Ave	2643 341206	8843 725493	31734 855922	70640	186175	2.00 100	4.00 200	10.0 250	20.0	50.0
Carbon disulfide	CBM	Ave	38169 2225239	82281 4529418	224722 5480167	430038	1115839	2.00 100	4.00 200	10.0 250	20.0	50.0
2-Propanol	CBM	Ave	17881 1420512	40058 2996804	143951 3569379	266744	731947	2.26 113	4.52 226	11.3 283	22.6	56.5
Allyl chloride	CBM	Ave	 1129440	 2534135	77398 2660183	210412	520670	 110	 220	11.0 275	22.0	55.0
Methylene chloride	CBM	Lin2	116716 1119340	175183 2258485	219879 2636912	328367	629397	2.20 110	4.40 220	11.0 275	22.0	55.0
n-Hexane	CBM	Ave	+++++ 1475211	63798 2875927	141984 3494295	303271	739895	+++++ 100	4.00 200	10.0 250	20.0	50.0
Acrylonitrile	CBM	Ave	 486007	 1047006	44884 1267739	81833	238822	 100	 200	10.0 250	20.0	50.0
Vinyl acetate	CBM	Ave	+++++ 1834735	85750 2371021	255772 +++++	528424	1228614	+++++ 110	4.40 220	11.0 +++++	22.0	55.0
trans-1,2-Dichloroethene	CBM	Ave	31131 1809055	75113 3576795	191955 4224674	365041	939845	2.00 100	4.00 200	10.0 250	20.0	50.0
Methyl-t-Butyl Ether (MTBE)	CBM	Ave	56525 3226978	131631 6173732	343464 7217296	664719	1656478	2.14 107	4.28 214	10.7 268	21.4	53.5
C6 Range	CBM	Ave	192679 7855023	358631 15173829	904897 18394574	1641618	3917522	2.00 100	4.00 200	10.0 250	20.0	50.0
1,1-Dichloroethane	CBM	Ave	33178 2026563	74039 3953319	196561 4741231	414373	998959	2.00 100	4.00 200	10.0 250	20.0	50.0
Ethyl acetate	CBM	Ave	+++++ 2692117	 5180041	293464 6004707	575199	1349704	+++++ 100	 200	10.0 250	20.0	50.0
cis-1,2-Dichloroethene	CBM	Ave	17717 1197857	45315 2372839	119605 2797925	235081	585444	2.12 106	4.24 212	10.6 265	21.2	53.0
2-Butanone (MEK)	CBM	Ave	6766 435812	12876 875609	43153 1058689	84264	227815	2.16 108	4.32 216	10.8 270	21.6	54.0
Tetrahydrofuran	CBM	Ave	17069 1030666	39749 1982980	107251 2500618	211122	505118	2.18 109	4.36 218	10.9 273	21.8	54.5
Chloroform	CBM	Ave	46563 2564133	103810 4889133	262349 5903948	499079	1305631	2.00 100	4.00 200	10.0 250	20.0	50.0
1,1,1-Trichloroethane	CBM	Ave	45805 2584840	101716 4968361	270837 6070651	549613	1349695	2.00 100	4.00 200	10.0 250	20.0	50.0
Cyclohexane	CBM	Ave	23172 1350545	54300 2608885	134445 3192471	282599	700504	2.14 107	4.28 214	10.7 268	21.4	53.5

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
Carbon tetrachloride	CBM	Ave	34310 2520397	91118 4678967	234471 5817901	475035	1294743	2.16 108	4.32 216	10.8 270	21.6	54.0
Benzene	DFB	Ave	59624 2389447	99533 4732278	253419 5790220	497040	1230614	2.12 106	4.24 212	10.6 265	21.2	53.0
1,2-Dichloroethane	DFB	Ave	13364 1397328	56936 2751445	150257 3369011	282827	719257	2.16 108	4.32 216	10.8 270	21.6	54.0
2,2,4-Trimethylpentane	DFB	Ave	112227 6195473	246376 12124660	663372 14751016	1324193	3177229	2.00 100	4.00 200	10.0 250	20.0	50.0
1,4-Dioxane	DFB	Ave	+++++ 724706	28504 1329642	77056 1690616	147088	361041	+++++ 109	4.36 218	10.9 273	21.8	54.5
n-Heptane	DFB	Ave	38882 2286188	95673 4613251	235977 5767125	484023	1145593	2.18 109	4.36 218	10.9 273	21.8	54.5
Toluene Range	DFB	Ave	 1185076	 +++++	 1923452	418892	356394	 100	 +++++	 250	20.0	50.0
Trichloroethene	DFB	Ave	30619 1913425	73304 3781247	197538 4592155	401391	965073	2.18 109	4.36 218	10.9 273	21.8	54.5
1,2-Dichloropropane	DFB	Ave	11094 594348	21613 1143033	66637 1383272	125890	302130	2.16 108	4.32 216	10.8 270	21.6	54.0
Dibromomethane	DFB	Ave	78184 2581839	141524 5011003	292084 6120419	539303	1309471	2.16 108	4.32 216	10.8 270	21.6	54.0
Methyl methacrylate	DFB	Ave	19302 1221836	48743 2418543	131628 2948826	258010	619262	2.12 106	4.24 212	10.6 265	21.2	53.0
Bromodichloromethane	DFB	Ave	34846 2004718	74429 3920426	201970 4779773	405302	1001560	2.18 109	4.36 218	10.9 273	21.8	54.5
1,1,2-Trichloroethane	CBZ	Ave	+++++ 1619227	61408 3134726	159397 3827853	335050	836080	+++++ 109	4.36 218	10.9 273	21.8	54.5
cis-1,3-Dichloropropene	DFB	Ave	21543 1836751	70709 3356320	179457 3990915	382143	926083	2.00 100	4.00 200	10.0 250	20.0	50.0
4-Methyl-2-pentanone (MIBK)	DFB	Ave	14605 1107047	41828 2194215	108061 2713827	217633	541816	2.16 108	4.32 216	10.8 270	21.6	54.0
Toluene	DFB	Ave	44918 3234419	121841 6321429	329484 7719423	654528	1591195	2.18 109	4.36 218	10.9 273	21.8	54.5
n-Octane	CBZ	Ave	54223 3470752	133391 6933444	359824 8362676	699581	1758338	2.14 107	4.28 214	10.7 268	21.4	53.5
trans-1,3-Dichloropropene	CBZ	Ave	25030 1868256	62083 3549340	182946 4143638	365164	927460	2.20 110	4.40 220	11.0 275	22.0	55.0
TVOC as Toluene	DFB	Ave	 843716330	 +++++	 1903365491	176923901	439793880	 100	 +++++	 250	20.0	50.0
Tetrachloroethene	CBZ	Ave	48220 3126433	119838 6001544	329226 7393595	649963	1608038	2.00 100	4.00 200	10.0 250	20.0	50.0
PCE Range	CBZ	Ave	630645 16114389	738210 29485309	1796326 38755135	3440548	8341857	2.00 100	4.00 200	10.0 250	20.0	50.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
2-Hexanone	CBZ	Ave	16800 1389350	50383 2756624	115816 3433084	259694	674275	2.20 110	4.40 220	11.0 275	22.0	55.0
Dibromochloromethane	CBZ	Ave	45792 3919209	106894 7656537	350518 9292537	722920	1942778	2.20 110	4.40 220	11.0 275	22.0	55.0
1,2-Dibromoethane (EDB)	CBZ	Ave	44028 3359336	122049 6503122	330725 7799517	676435	1701888	2.16 108	4.32 216	10.8 270	21.6	54.0
Isopropylbenzene	CBZ	Ave	+++++ 1628329	51480 3116814	160366 3664807	328889	804916	+++++ 100	4.00 200	10.0 250	20.0	50.0
Chlorobenzene	CBZ	Ave	42762 2860155	105997 5659692	280249 6833616	587742	1418688	2.20 110	4.40 220	11.0 275	22.0	55.0
Ethylbenzene	CBZ	Ave	61595 4593164	170228 8876302	437422 10636172	934228	2289557	2.18 109	4.36 218	10.9 273	21.8	54.5
m,p-Xylene	CBZ	Ave	99069 7660451	258988 14414087	767047 16968123	1583576	3932206	4.32 216	8.64 432	21.6 540	43.2	108
n-Nonane	CBZ	Ave	43293 3825973	128143 7371958	379039 8842363	803476	1949287	2.00 100	4.00 200	10.0 250	20.0	50.0
4-Ethyltoluene	CBZ	Ave	+++++ 1487932	43832 3001005	151876 3642573	322664	784075	+++++ 108	4.32 216	10.8 270	21.6	54.0
1,3,5-Trimethylbenzene	CBZ	Ave	+++++ 2693107	83623 4864533	257457 5970852	524733	1346755	+++++ 110	4.40 220	11.0 275	22.0	55.0
o-Xylene	CBZ	Ave	20792 1815791	60579 3505640	182616 4159531	364675	914693	2.20 110	4.40 220	11.0 275	22.0	55.0
Styrene	CBZ	Ave	28320 2679435	78559 5191223	246582 6196831	516328	1320238	2.20 110	4.40 220	11.0 275	22.0	55.0
Bromoform	CBZ	Ave	38828 4857707	123943 9500244	377659 11264928	857956	2356212	2.16 108	4.32 216	10.8 270	21.6	54.0
1,1,2,2-Tetrachloroethane	CBZ	Ave	42263 3985717	128910 7622044	382457 8955512	797323	2002671	2.20 110	4.40 220	11.0 275	22.0	55.0
1,2,3-Trichloropropane	CBZ	Ave	12409 1189601	41327 2240859	121020 2622169	250026	617809	2.00 100	4.00 200	10.0 250	20.0	50.0
n-Propylbenzene	CBZ	Ave	71023 6487376	210265 12068116	639726 14152722	1325870	3265414	2.00 100	4.00 200	10.0 250	20.0	50.0
2-Chlorotoluene	CBZ	Ave	17150 1494283	49136 2834285	149436 3282212	307559	750076	2.14 107	4.28 214	10.7 268	21.4	53.5
n-Decane	CBZ	Ave	39545 4593010	142865 8554862	438330 9890872	941660	2333640	2.18 109	4.36 218	10.9 273	21.8	54.5
alpha-Methylstyrene	CBZ	Ave	17151 2267704	60477 4334995	195426 5093172	425093	1109444	2.20 110	4.40 220	11.0 275	22.0	55.0
tert-Butylbenzene	CBZ	Ave	37744 4214470	131662 7813045	405486 9020090	896609	2165902	2.16 108	4.32 216	10.8 270	21.6	54.0
1,2,4-Trimethylbenzene	CBZ	Ave	23212 2368966	65917 4587815	228793 5096991	498463	1157066	2.16 108	4.32 216	10.8 270	21.6	54.0

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1 Analy Batch No.: 4057

SDG No.:

Instrument ID: MSB GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 02/14/2013 10:05 Calibration End Date: 02/14/2013 14:46 Calibration ID: 856

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
sec-Butylbenzene	CBZ	Ave	71579 7454107	227503 13660238	736395 15792153	1562239	3825040	2.00 100	4.00 200	10.0 250	20.0	50.0
1,3-Dichlorobenzene	CBZ	Ave	33985 3664140	112973 7051297	359628 7951709	783849	1874504	2.20 110	4.40 220	11.0 275	22.0	55.0
4-Isopropyltoluene	CBZ	Ave	57364 6322154	186770 11693166	619237 13217284	1314991	3226924	2.00 100	4.00 200	10.0 250	20.0	50.0
1,4-Dichlorobenzene	CBZ	Ave	38552 3760106	129918 7212951	369086 8164324	801883	1983086	2.18 109	4.36 218	10.9 273	21.8	54.5
Benzyl chloride	CBZ	Ave	31409 4028084	96279 7661214	331370 8859125	708537	1944087	2.20 110	4.40 220	11.0 275	22.0	55.0
Naphthalene	CBZ	Ave	+++++ 4571375	80127 8893822	360862 10106609	958637	2437537	+++++ 110	4.40 220	11.0 275	22.0	55.0
n-Butylbenzene	CBZ	Ave	32594 3180308	84656 5925471	298357 6766639	626085	1559850	2.12 106	4.24 212	10.6 265	21.2	53.0
1,2-Dichlorobenzene	CBZ	Ave	34545 3506689	108950 6389471	338175 7290507	749058	1806783	2.18 109	4.36 218	10.9 273	21.8	54.5
n-Undecane	CBZ	Ave	37912 4961555	120170 9250401	463290 10335398	1020565	2477329	2.00 100	4.00 200	10.0 250	20.0	50.0
n-Dodecane	CBZ	Ave	102705 2898705	73854 6250954	267009 6987753	707000	1730345	2.00 100	4.00 200	10.0 250	20.0	50.0
1,2,4-Trichlorobenzene	CBZ	Ave	16212 3451575	63522 6759370	288164 7851736	725039	1803207	2.20 110	4.40 220	11.0 275	22.0	55.0
Hexachlorobutadiene	CBZ	Ave	27393 4516716	95154 8495168	390600 9706363	958497	2307581	2.20 110	4.40 220	11.0 275	22.0	55.0
1,2,3-Trichlorobenzene	CBZ	Ave	26868 3195950	60849 6054104	248588 7072155	672203	1699174	2.18 109	4.36 218	10.9 273	21.8	54.5
1,2-Dichloroethane-d4 (Surr)	CBM	Ave	785996 826788	761535 843634	742309 856183	783744	763781	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	DFB	Ave	1232497 1244911	1237264 1251450	1189312 1233593	1286653	1222724	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBZ	Ave	2077274 1979641	2049199 1907173	2033047 1818496	2052234	1961445	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 10:05:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	1
Sample ID:	IC		
Misc. Info.:	340-0002766-003		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	4057	Lims Sample ID:	3
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 12:10:20	Calib Date:	14-Feb-2013 11:27:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK012		

First Level Reviewer: kammererd Date: 14-Feb-2013 11:23:01

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.345	2.335	0.011	74	13439	3.00	
10 Dichlorodifluoromethane	85	2.426	2.426	0.002	95	62856	1.71	
11 Chlorodifluoromethane	51	2.444	2.435	0.010	50	32667	1.92	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.688	2.697	-0.007	83	67884	1.74	
14 Chloromethane	50	2.724	2.733	-0.007	73	17020	1.55	
15 Vinyl chloride	62	2.931	2.958	-0.026	56	15142	1.74	
16 Butane	43	2.940	2.967	-0.026	63	24798	2.06	
17 Butadiene	39	3.040	3.040	0.002	54	14820	2.05	
18 Bromomethane	94	3.554	3.572	-0.016	81	11519	1.65	
20 Chloroethane	64	3.761	3.771	-0.008	10	6116	1.68	
22 Vinyl bromide	106	4.140	4.141	0.001	66	20694	1.47	
23 Trichlorofluoromethane	101	4.258	4.313	-0.052	92	65542	1.72	M
25 Pentane	43	4.447	4.475	-0.026	78	30197	1.75	
28 Ethyl ether	59	4.934	4.908	0.028	68	8823	1.49	
29 Acrolein	56	5.313	5.170	0.146	1	5672	2.19	
30 1,1-Dichloroethene	61	5.286	5.306	-0.017	66	35431	1.82	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.340	5.369	-0.026	88	70327	1.72	
33 Acetone	58	5.602	5.468	0.137	55	2643	1.14	
34 Carbon disulfide	76	5.665	5.667	0.001	1	38169	1.79	M
37 Isopropyl alcohol	45	5.981	5.874	0.110	14	17881	1.76	
39 Methylene Chloride	49	6.243	6.253	-0.007	85	116716	3.03	
41 trans-1,2-Dichloroethene	61	6.793	6.786	0.011	57	31131	1.69	
43 Methyl tert-butyl ether	73	6.820	6.831	-0.008	79	56525	1.84	
A 44 C6 Range	1	7.352	7.233 -	7.471	0	192679	2.03	
46 1,1-Dichloroethane	63	7.560	7.562	0.002	56	33178	1.77	
52 cis-1,2-Dichloroethene	96	8.652	8.628	0.029	67	17717	1.70	
53 2-Butanone (MEK)	72	8.733	8.700	0.038	48	6766	1.95	
* 56 Chlorobromomethane (IS)	130	9.058	9.056	0.002	82	666635	50.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
58 Tetrahydrofuran	42	9.220	9.160	0.065	42	17069	1.86	
59 Chloroform	83	9.202	9.223	-0.017	27	46563	1.80	
60 1,1,1-Trichloroethane	97	9.518	9.521	0.002	76	45805	1.77	
62 Cyclohexane	84	9.626	9.639	-0.008	60	23172	1.87	
64 Carbon tetrachloride	117	9.807	9.837	-0.025	66	34310	1.70	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.095	10.099	0.001	0	785996	50.1	
67 Benzene	78	10.213	10.188	0.029	52	59624	2.36	
68 1,2-Dichloroethane	62	10.249	10.225	0.029	1	13364	1.20	
70 Isooctane	57	10.339	10.360	-0.016	90	112227	1.82	
71 n-Heptane	43	10.691	10.712	-0.016	55	38882	1.89	
* 73 1,4-Difluorobenzene	114	10.889	10.888	0.001	94	2349423	50.0	
74 Trichloroethene	130	11.377	11.353	0.029	75	30619	1.87	
75 1,2-Dichloropropane	76	11.756	11.732	0.029	46	11094	2.04	
76 Dibromomethane	174	11.990	11.958	0.038	77	78184	2.43	
77 Methyl methacrylate	69	12.026	11.985	0.046	42	19302	1.75	
80 Dichlorobromomethane	85	12.243	12.228	0.020	83	34846	2.02	
81 cis-1,3-Dichloropropene	75	13.091	13.041	0.056	0	21543	1.39	M
83 4-Methyl-2-pentanone (MIBK)	58	13.362	13.330	0.038	60	14605	1.65	
$ 85 Toluene-d8 (Surr)	100	13.542	13.537	0.011	98	1232497	50.4	
87 Toluene	91	13.668	13.673	0.001	42	44918	1.71	
88 n-Octane	43	13.894	13.887	0.011	67	54223	1.80	
89 trans-1,3-Dichloropropene	75	14.092	14.050	0.046	49	25030	1.78	
A 95 TVOC as Toluene	1	14.562	2.568 -	26.556	0	10913117	0	
96 Tetrachloroethene	166	14.697	14.682	0.020	84	48220	1.66	
A 97 PCE Range	1	14.693	14.587 -	14.798	0	630645	2.78	
98 2-Hexanone	58	14.959	14.862	0.101	27	16800	1.70	
99 Chlorodibromomethane	129	15.139	15.124	0.020	70	45792	1.78	
101 Ethylene Dibromide	107	15.392	15.340	0.056	65	44028	1.66	
* 102 Chlorobenzene-d5 (IS)	117	16.231	16.229	0.002	89	1821753	50.0	
103 Chlorobenzene	112	16.285	16.279	0.011	41	42762	1.86	
105 Ethylbenzene	91	16.520	16.496	0.029	55	61595	1.72	
107 m-Xylene & p-Xylene	91	16.736	16.721	0.020	0	99069	3.35	
109 n-Nonane	43	16.781	16.775	0.010	88	43293	1.41	
S 110 Xylenes, Total	106				0		4.92	
112 o-Xylene	106	17.494	17.498	0.002	85	20792	1.56	
113 Styrene	104	17.566	17.525	0.047	0	28320	1.59	M
114 Bromoform	173	17.900	17.877	0.029	84	38828	1.42	
$ 117 4-Bromofluorobenzene (Surr)	95	18.514	18.526	-0.007	92	2077274	50.5	
119 1,1,2,2-Tetrachloroethane	83	18.793	18.770	0.028	43	42263	1.52	
121 1,2,3-Trichloropropane	110	18.911	18.860	0.056	33	12409	1.30	
122 N-Propylbenzene	91	19.037	19.032	0.011	72	71023	1.40	
123 2-Chlorotoluene	126	19.190	19.203	-0.008	32	17150	1.53	
126 n-Decane	57	19.389	19.411	-0.016	63	39545	1.30	
127 Alpha Methyl Styrene	118	19.840	19.835	0.011	51	17151	1.31	
128 tert-Butylbenzene	91	20.020	20.025	0.001	54	37744	1.32	
129 1,2,4-Trimethylbenzene	120	20.129	20.133	0.002	25	23212	1.47	
130 sec-Butylbenzene	105	20.490	20.467	0.029	77	71579	1.29	
131 1,3-Dichlorobenzene	146	20.733	20.702	0.038	65	33985	1.38	
132 4-Isopropyltoluene	119	20.760	20.765	0.001	79	57364	1.25	
133 1,4-Dichlorobenzene	146	20.878	20.882	0.002	47	38552	1.42	
135 Benzyl chloride	91	21.148	21.135	0.020	52	31409	1.42	
136 n-Butylbenzene	92	21.536	21.532	0.010	57	32594	1.54	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
137 1,2-Dichlorobenzene	146	21.590	21.559	0.037	66	34545	1.44	
138 Undecane	57	21.699	21.694	0.011	76	37912	1.19	
140 Dodecane	57	23.260	23.229	0.038	4	102705	3.19	
142 1,2,4-Trichlorobenzene	180	23.963	23.869	0.101	32	16212	1.01	
143 Hexachlorobutadiene	225	24.162	24.095	0.074	52	27393	1.18	
146 1,2,3-Trichlorobenzene	180	24.676	24.564	0.119	21	26868	1.64	

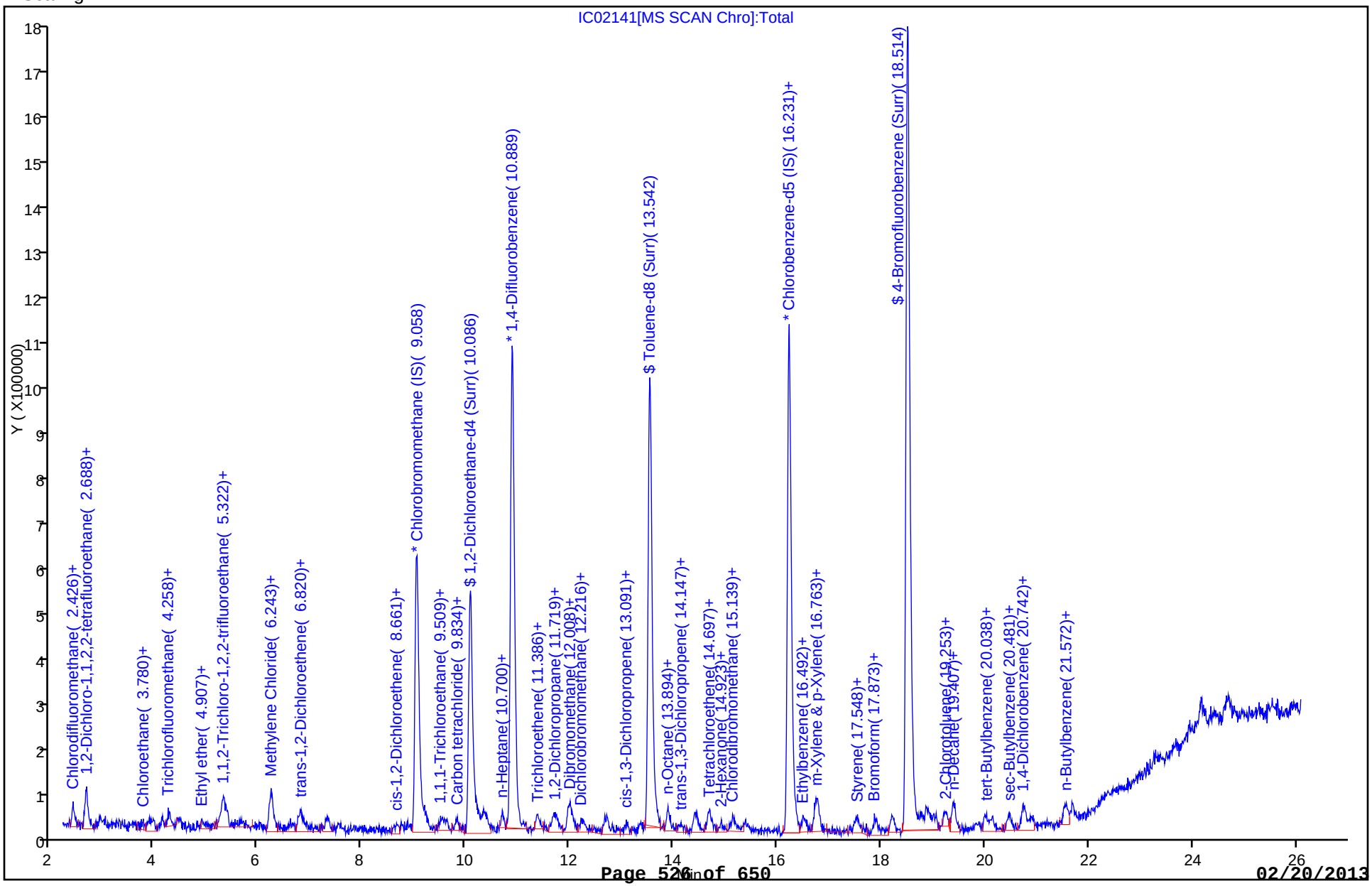
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 14-Feb-2013 12:10:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Injection Date:	14-Feb-2013 10:05:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	3
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



Manual Integration/User Assign Peak Report

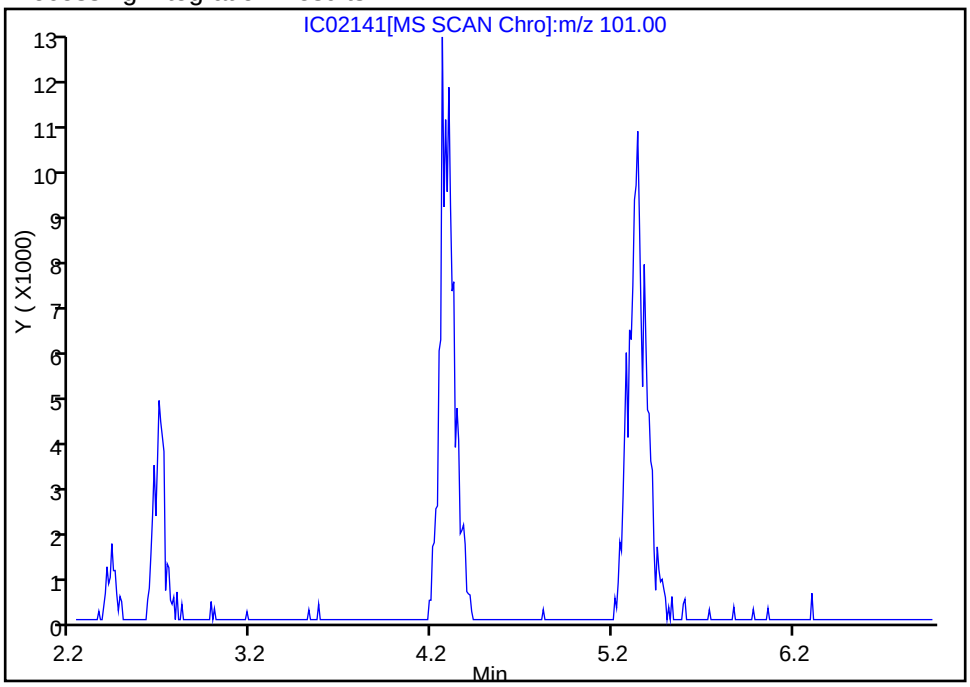
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Injection Date:	14-Feb-2013 10:05:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	3
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

23 Trichlorofluoromethane, Signal: 1, m/z: 101.0 Type: quant, RT: 4.31

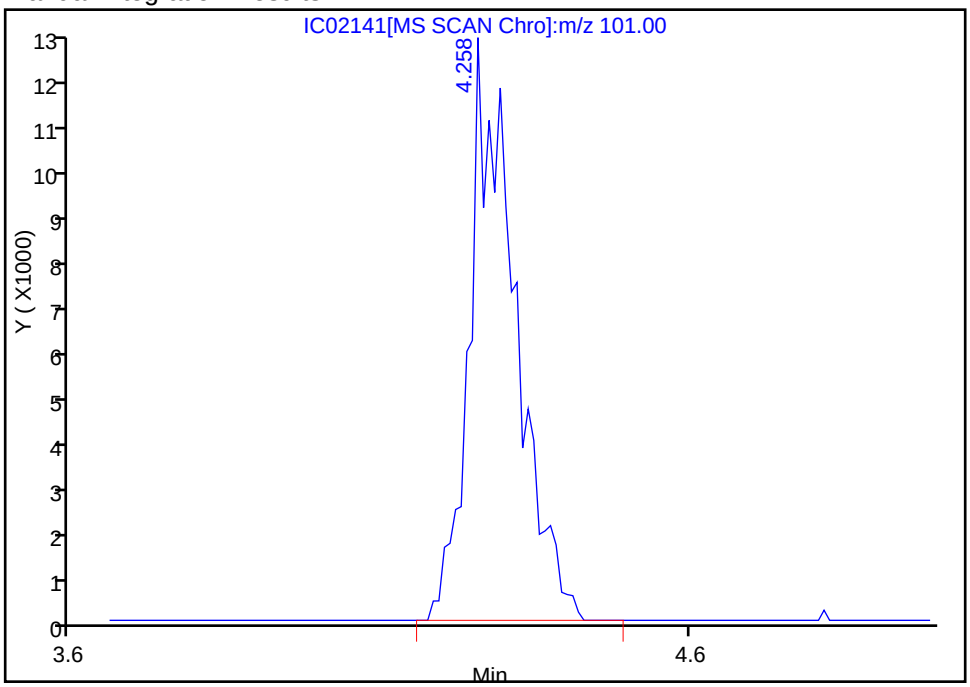
Processing Integration Results

Not Detected
Expected RT: 4.31



Manual Integration Results

RT: 4.26
Response: 65542
Amount: 1.722421



Reviewer: kammererd, 14-Feb-2013 11:23:01
Audit Action: Manually Integrated
Audit Reason: Baseline

Report Date: 14-Feb-2013 12:10:20 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

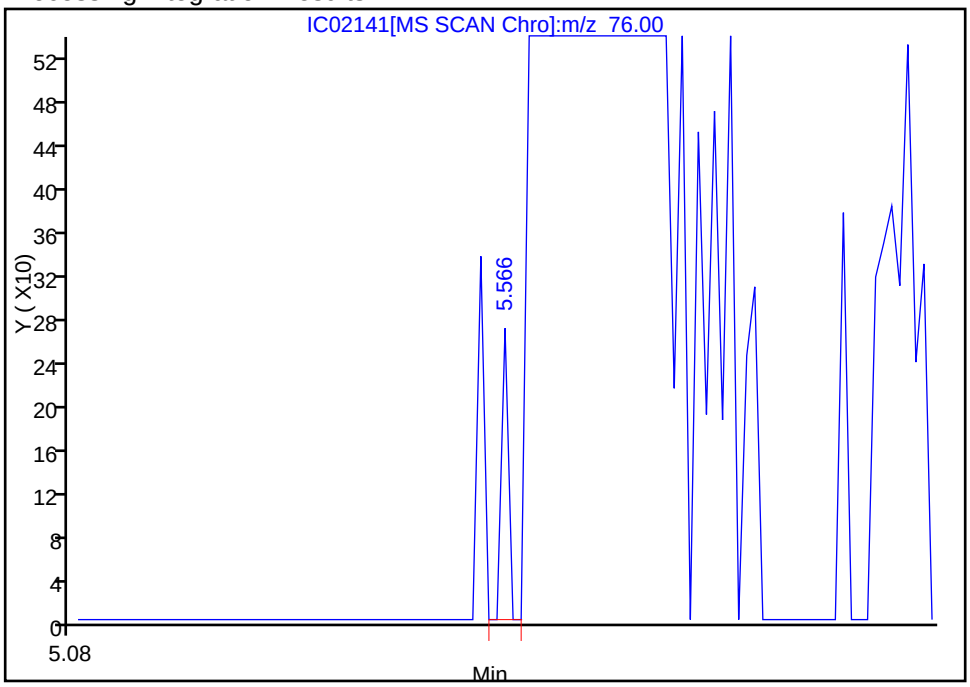
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Injection Date:	14-Feb-2013 10:05:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	3
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

34 Carbon disulfide, Signal: 1, m/z: 76.0 Type: quant, RT: 5.66

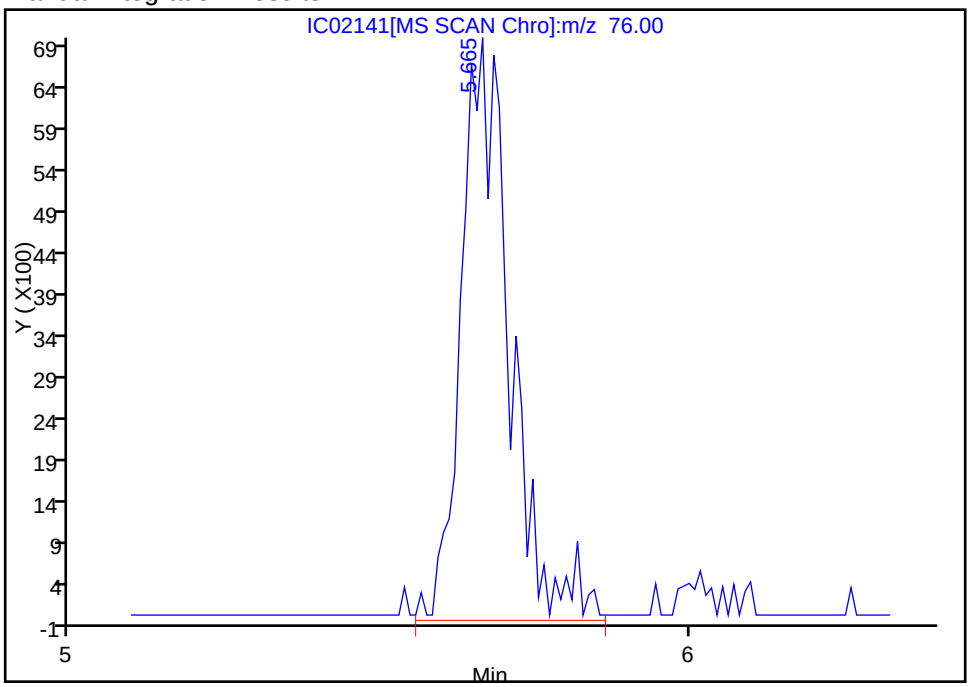
Processing Integration Results

RT: 5.57
Response: 145
Amount: 2.000000



Manual Integration Results

RT: 5.67
Response: 38169
Amount: 1.790387



Reviewer: yabutl, 14-Feb-2013 11:03:47
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

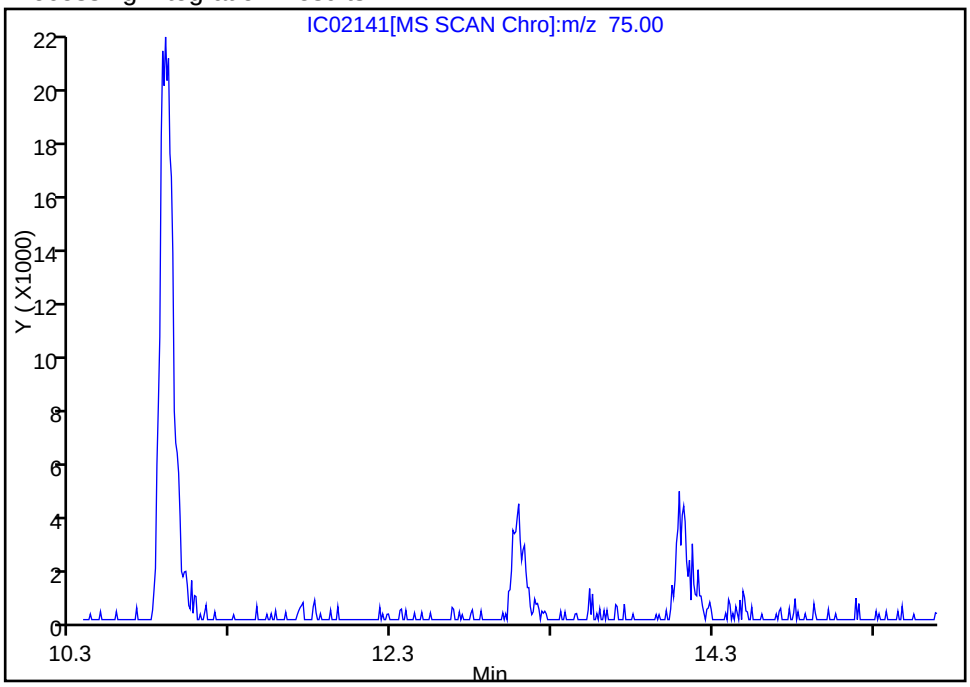
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Injection Date:	14-Feb-2013 10:05:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	3
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

81 cis-1,3-Dichloropropene, Signal: 1, m/z: 75.0 Type: quant, RT: 13.04

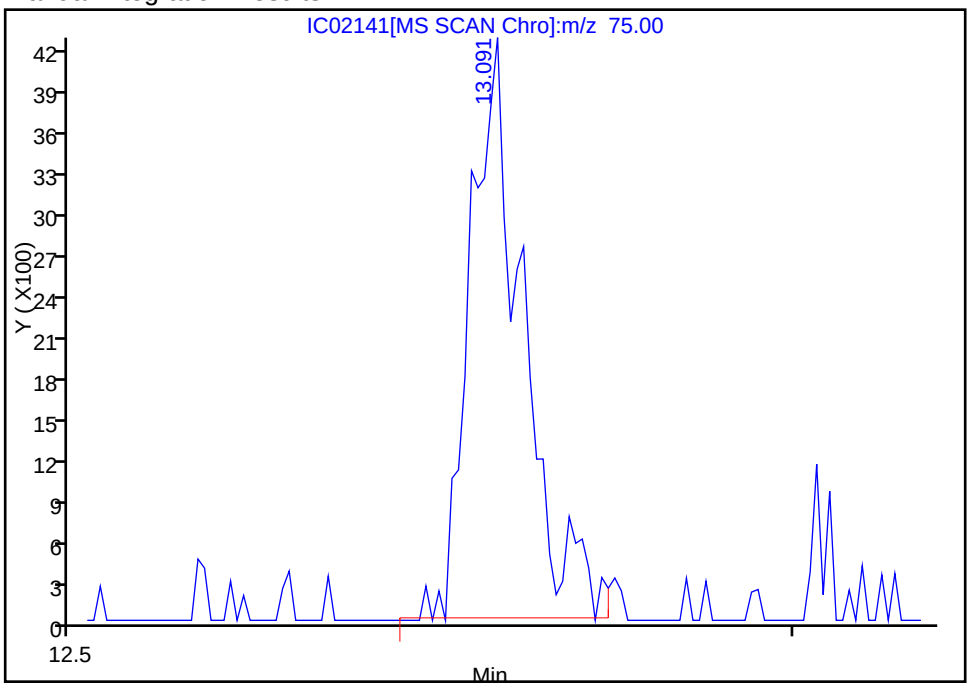
Processing Integration Results

Not Detected
Expected RT: 13.04



Manual Integration Results

RT: 13.09
Response: 21543
Amount: 1.388221



Reviewer: yabutl, 14-Feb-2013 11:03:47
Audit Action: Manually Integrated
Audit Reason: Baseline

Manual Integration/User Assign Peak Report

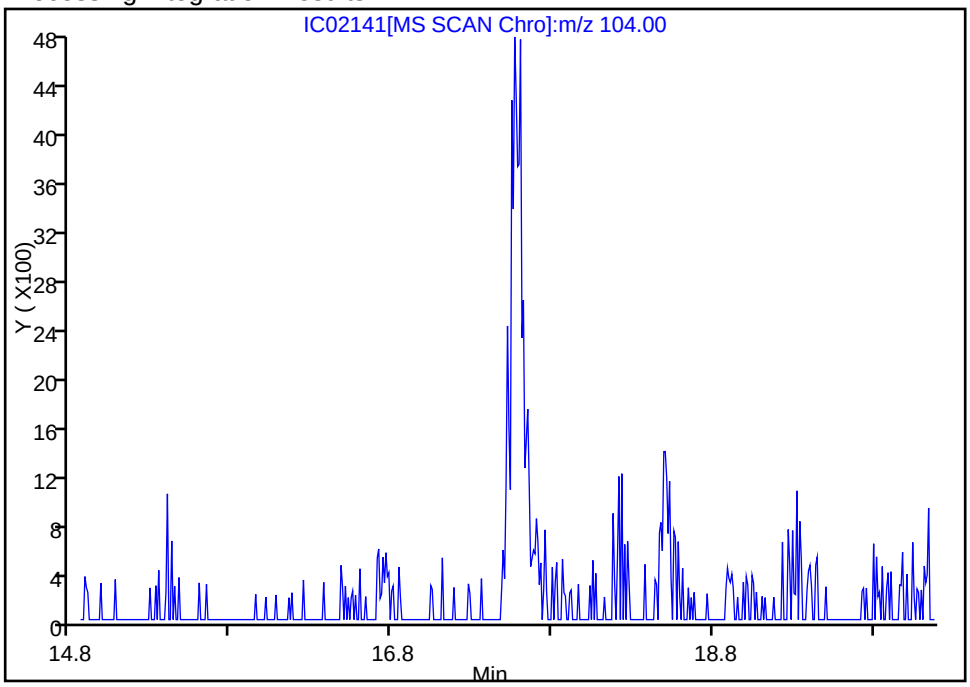
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02141.D		
Injection Date:	14-Feb-2013 10:05:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	3
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

113 Styrene, Signal: 1, m/z: 104.0 Type: quant, RT: 17.52

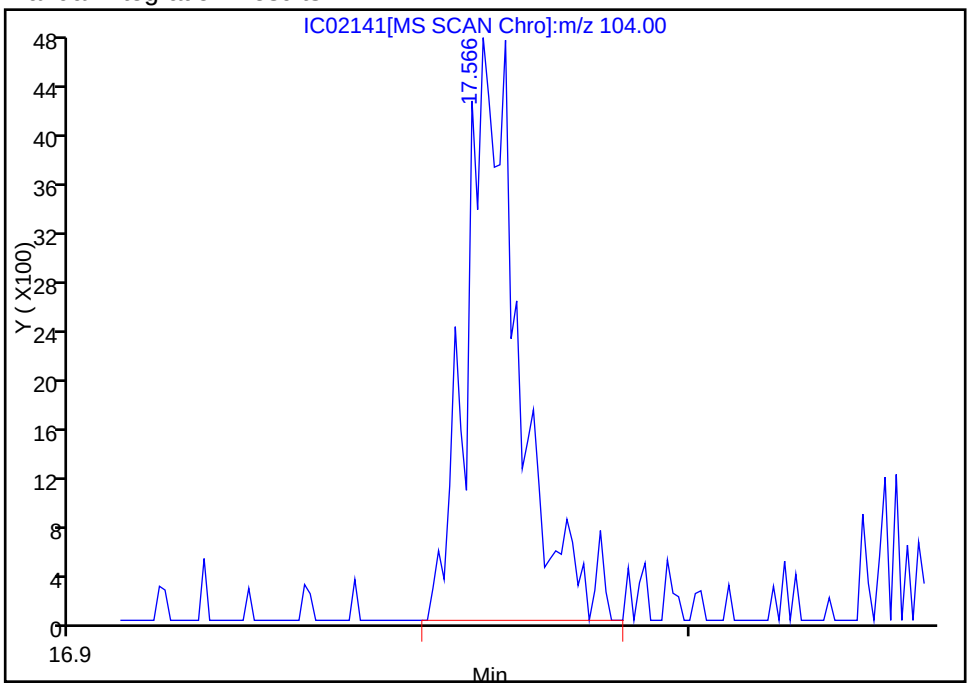
Processing Integration Results

Not Detected
Expected RT: 17.52



Manual Integration Results

RT: 17.57
Response: 28320
Amount: 1.594563



Reviewer: kammererd, 14-Feb-2013 11:23:01
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 10:46:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	2
Sample ID:	IC		
Misc. Info.:	340-0002766-004		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	4057	Lims Sample ID:	4
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 12:10:11	Calib Date:	14-Feb-2013 11:27:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK012		

First Level Reviewer: kammererd Date: 14-Feb-2013 11:26:56

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.331	2.335	-0.003	77	17105	4.04	
10 Dichlorodifluoromethane	85	2.412	2.426	-0.012	98	145847	4.19	
11 Chlorodifluoromethane	51	2.439	2.435	0.005	89	68263	4.24	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.683	2.697	-0.012	90	154847	4.18	
14 Chloromethane	50	2.710	2.733	-0.021	51	46018	4.43	
15 Vinyl chloride	62	2.944	2.958	-0.013	58	36888	4.47	
16 Butane	43	2.944	2.967	-0.022	91	52294	4.60	
17 Butadiene	39	3.026	3.040	-0.012	69	29663	4.34	
18 Bromomethane	94	3.549	3.572	-0.021	69	32627	4.93	
20 Chloroethane	64	3.766	3.771	-0.003	66	14842	4.31	
22 Vinyl bromide	106	4.144	4.141	0.005	77	49837	3.73	
23 Trichlorofluoromethane	101	4.280	4.313	-0.030	92	150421	4.17	
25 Pentane	43	4.487	4.475	0.014	83	70244	4.29	
28 Ethyl ether	59	4.929	4.908	0.023	87	24757	4.42	
29 Acrolein	56	5.254	5.170	0.087	1	9022	3.68	
30 1,1-Dichloroethene	61	5.290	5.306	-0.013	89	73395	3.98	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.353	5.369	-0.013	92	157981	4.08	
33 Acetone	58	5.525	5.468	0.060	65	8843	4.04	
34 Carbon disulfide	76	5.678	5.667	0.014	96	82281	4.08	
37 Isopropyl alcohol	45	5.931	5.874	0.060	54	40058	4.17	
39 Methylene Chloride	49	6.238	6.253	-0.012	93	175183	4.80	
41 trans-1,2-Dichloroethene	61	6.788	6.786	0.006	77	75113	4.31	
43 Methyl tert-butyl ether	73	6.824	6.831	-0.004	88	131631	4.53	
45 Hexane	41	7.320	7.337	-0.013	79	63798	4.28	
A 44 C6 Range	1	7.348	7.249 -	7.446	0	358631	4.00	
46 1,1-Dichloroethane	63	7.546	7.562	-0.012	90	74039	4.16	
48 Vinyl acetate	43	7.790	7.734	0.060	97	85750	4.17	M
52 cis-1,2-Dichloroethene	96	8.647	8.628	0.024	83	45315	4.59	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
53 2-Butanone (MEK)	72	8.728	8.700	0.033	61	12876	3.92	
* 56 Chlorobromomethane (IS)	130	9.053	9.056	-0.003	83	631339	50.0	
58 Tetrahydrofuran	42	9.206	9.160	0.051	38	39749	4.56	
59 Chloroform	83	9.206	9.223	-0.013	64	103810	4.23	
60 1,1,1-Trichloroethane	97	9.531	9.521	0.015	86	101716	4.15	
62 Cyclohexane	84	9.594	9.639	-0.040	84	54300	4.63	
64 Carbon tetrachloride	117	9.838	9.837	0.006	96	91118	4.77	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.081	10.099	-0.013	0	761535	51.2	
67 Benzene	78	10.208	10.188	0.024	54	99533	4.02	
68 1,2-Dichloroethane	62	10.226	10.225	0.006	48	56936	5.21	
70 Isooctane	57	10.352	10.360	-0.003	92	246376	4.08	
71 n-Heptane	43	10.713	10.712	0.006	83	95673	4.74	
* 73 1,4-Difluorobenzene	114	10.884	10.888	-0.004	93	2306495	50.0	
74 Trichloroethene	130	11.354	11.353	0.006	89	73304	4.56	
75 1,2-Dichloropropane	76	11.760	11.732	0.033	76	21613	4.04	
76 Dibromomethane	174	11.958	11.958	0.006	79	141524	4.49	
77 Methyl methacrylate	69	12.012	11.985	0.032	62	48743	4.50	
79 1,4-Dioxane	88	12.039	12.003	0.041	61	28504	4.25	
80 Dichlorobromomethane	85	12.238	12.228	0.015	85	74429	4.40	
81 cis-1,3-Dichloropropene	75	13.077	13.041	0.042	77	70709	4.64	
83 4-Methyl-2-pentanone (MIBK)	58	13.330	13.330	0.006	92	41828	4.82	
$ 85 Toluene-d8 (Surr)	100	13.537	13.537	0.006	98	1237264	51.5	
87 Toluene	91	13.672	13.673	0.005	71	121841	4.71	
88 n-Octane	43	13.907	13.887	0.024	92	133391	4.41	
89 trans-1,3-Dichloropropene	75	14.087	14.050	0.041	74	62083	4.39	
91 1,1,2-Trichloroethane	97	14.421	14.384	0.041	86	61408	4.25	
A 95 TVOC as Toluene	1	14.575	2.594 -	26.556	0	40262735	0	
96 Tetrachloroethene	166	14.683	14.682	0.006	93	119838	4.11	
A 97 PCE Range	1	14.693	14.587 -	14.798	0	738210	3.24	
98 2-Hexanone	58	14.899	14.862	0.041	74	50383	5.07	
99 Chlorodibromomethane	129	15.125	15.124	0.006	92	106894	4.14	
101 Ethylene Dibromide	107	15.360	15.340	0.024	82	122049	4.59	
* 102 Chlorobenzene-d5 (IS)	117	16.217	16.229	-0.012	86	1829386	50.0	
103 Chlorobenzene	112	16.280	16.279	0.006	71	105997	4.58	
105 Ethylbenzene	91	16.515	16.496	0.024	90	170228	4.72	
107 m-Xylene & p-Xylene	91	16.731	16.721	0.015	0	258988	8.73	M
109 n-Nonane	43	16.785	16.775	0.014	90	128143	4.17	
S 110 Xylenes, Total	106				0		13.3	
112 o-Xylene	106	17.498	17.498	0.006	86	60579	4.53	
113 Styrene	104	17.561	17.525	0.042	82	78559	4.40	
114 Bromoform	173	17.904	17.877	0.033	93	123943	4.52	
115 Isopropylbenzene	120	18.220	18.211	0.015	89	51480	3.53	
$ 117 4-Bromofluorobenzene (Surr)	95	18.518	18.526	-0.003	93	2049199	49.6	
119 1,1,2,2-Tetrachloroethane	83	18.779	18.770	0.014	76	128910	4.61	
121 1,2,3-Trichloropropane	110	18.860	18.860	0.005	76	41327	4.30	
122 N-Propylbenzene	91	19.023	19.032	-0.003	97	210265	4.12	
123 2-Chlorotoluene	126	19.221	19.203	0.023	76	49136	4.38	
124 4-Ethyltoluene	120	19.239	19.257	-0.013	1	43832	3.59	M
125 1,3,5-Trimethylbenzene	120	19.384	19.384	0.006	74	83623	3.91	M
126 n-Decane	57	19.402	19.411	-0.003	85	142865	4.67	
127 Alpha Methyl Styrene	118	19.835	19.835	0.006	76	60477	4.58	
128 tert-Butylbenzene	91	20.015	20.025	-0.004	76	131662	4.59	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
129 1,2,4-Trimethylbenzene	120	20.142	20.133	0.015	59	65917	4.16	
130 sec-Butylbenzene	105	20.476	20.467	0.015	93	227503	4.08	
131 1,3-Dichlorobenzene	146	20.710	20.702	0.015	88	112973	4.56	
132 4-Isopropyltoluene	119	20.755	20.765	-0.004	84	186770	4.05	
133 1,4-Dichlorobenzene	146	20.891	20.882	0.015	91	129918	4.76	
135 Benzyl chloride	91	21.143	21.135	0.015	90	96279	4.33	
136 n-Butylbenzene	92	21.531	21.532	0.005	92	84656	3.97	
137 1,2-Dichlorobenzene	146	21.567	21.559	0.014	90	108950	4.52	
138 Undecane	57	21.694	21.694	0.006	87	120170	3.75	
140 Dodecane	57	23.291	23.229	0.069	77	73854	2.28	
142 1,2,4-Trichlorobenzene	180	23.949	23.869	0.087	73	63522	3.94	
143 Hexachlorobutadiene	225	24.166	24.095	0.078	76	95154	4.07	
145 Naphthalene	128	24.310	24.230	0.087	83	80127	3.11	
146 1,2,3-Trichlorobenzene	180	24.653	24.564	0.096	65	60849	3.69	

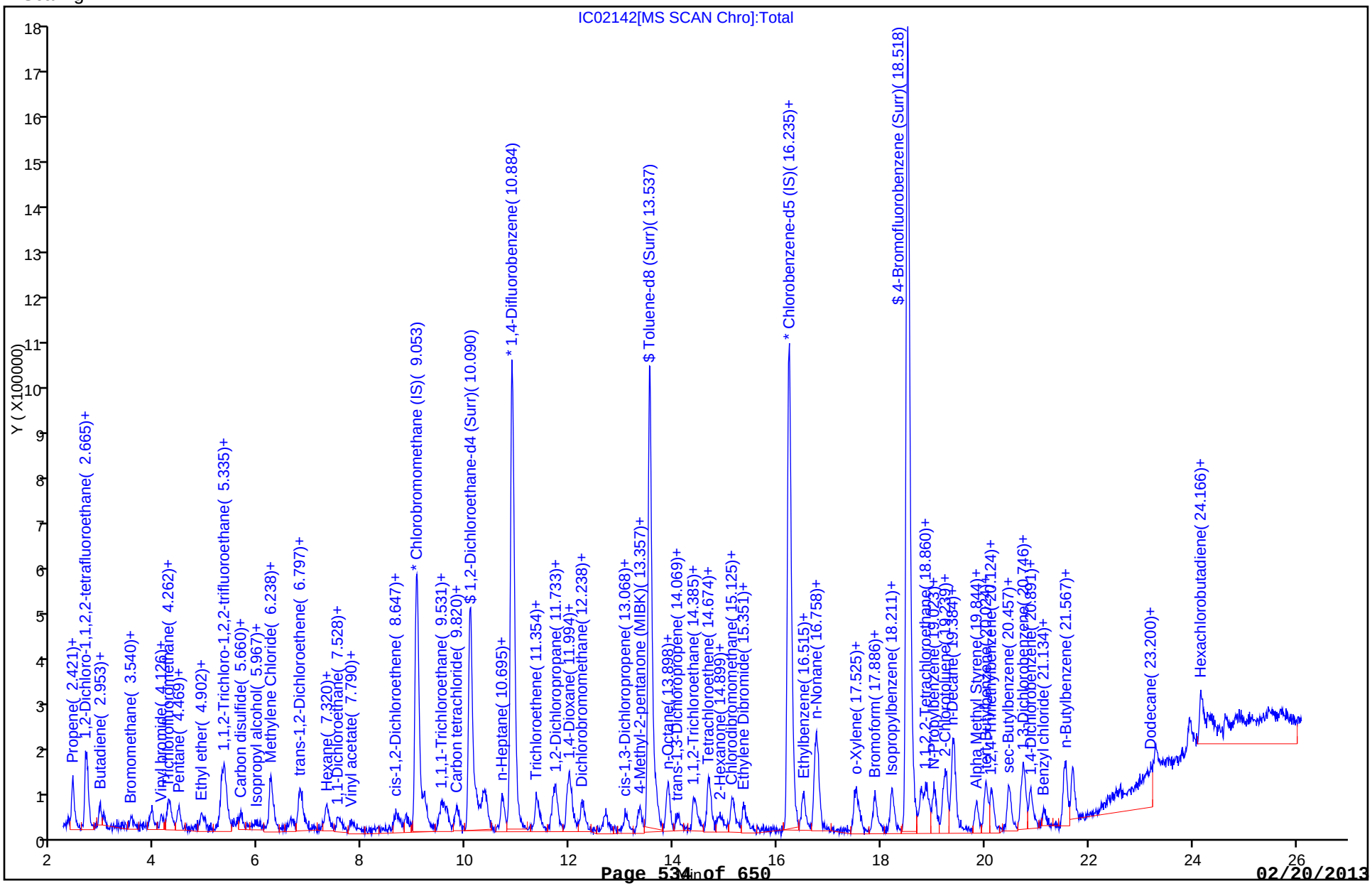
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 14-Feb-2013 12:10:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Injection Date:	14-Feb-2013 10:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	4
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



Report Date: 14-Feb-2013 12:10:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

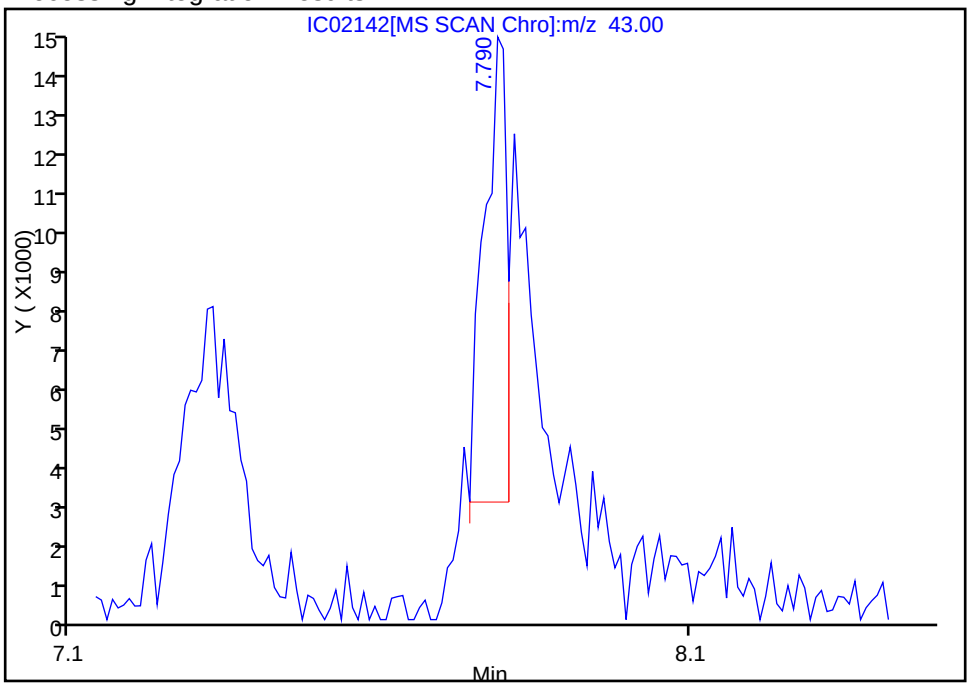
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Injection Date:	14-Feb-2013 10:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	4
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

48 Vinyl acetate, Signal: 1, m/z: 43.0 Type: quant, RT: 7.73

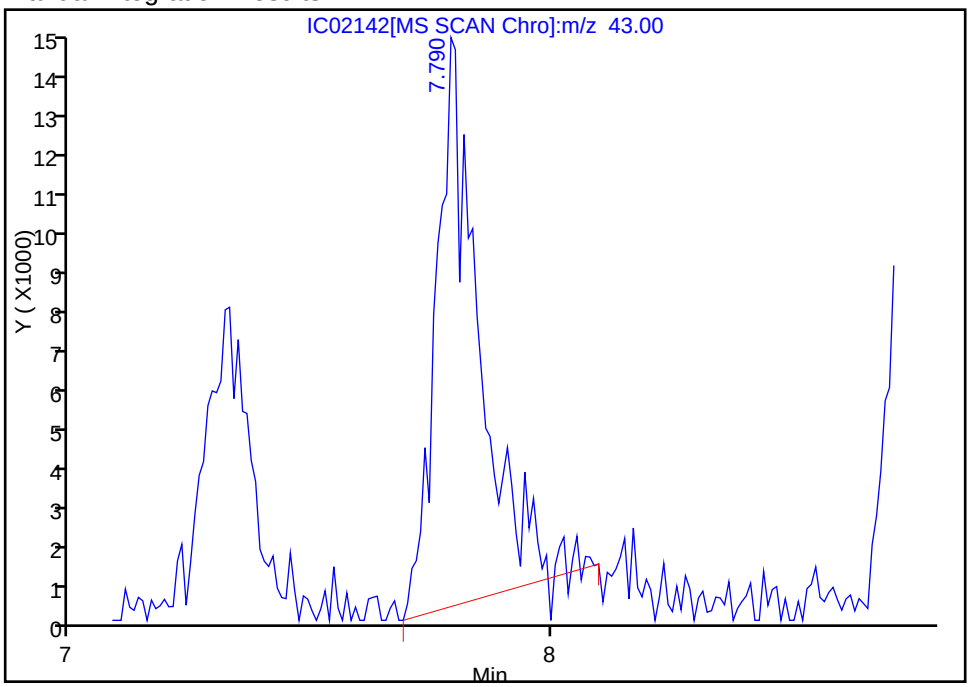
Processing Integration Results

RT: 7.79
Response: 28976
Amount: 4.400000



Manual Integration Results

RT: 7.79
Response: 85750
Amount: 4.166795



Reviewer: kammererd, 14-Feb-2013 11:26:56
Audit Action: Manually Integrated
Audit Reason: Split Peak

Report Date: 14-Feb-2013 12:10:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

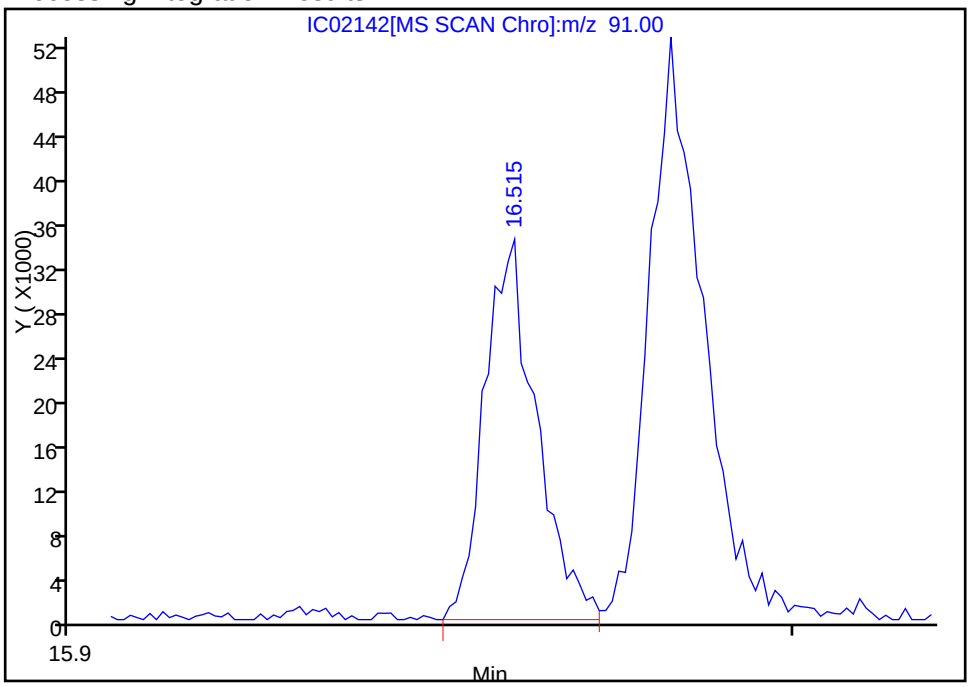
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Injection Date:	14-Feb-2013 10:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	4
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

107 m-Xylene & p-Xylene, Signal: 1, m/z: 91.0 Type: quant, RT: 16.72

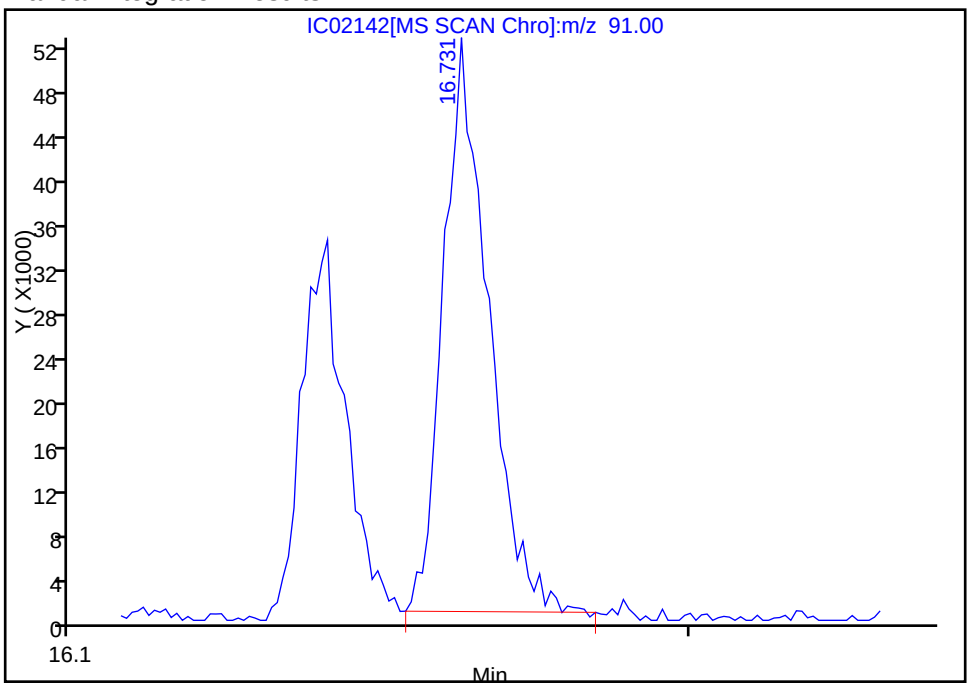
Processing Integration Results

RT: 16.51
Response: 169363
Amount: 7.945547



Manual Integration Results

RT: 16.73
Response: 258988
Amount: 8.729776



Reviewer: kammererd, 14-Feb-2013 11:26:56
Audit Action: Manually Integrated
Audit Reason: Wrong peak

Report Date: 14-Feb-2013 12:10:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

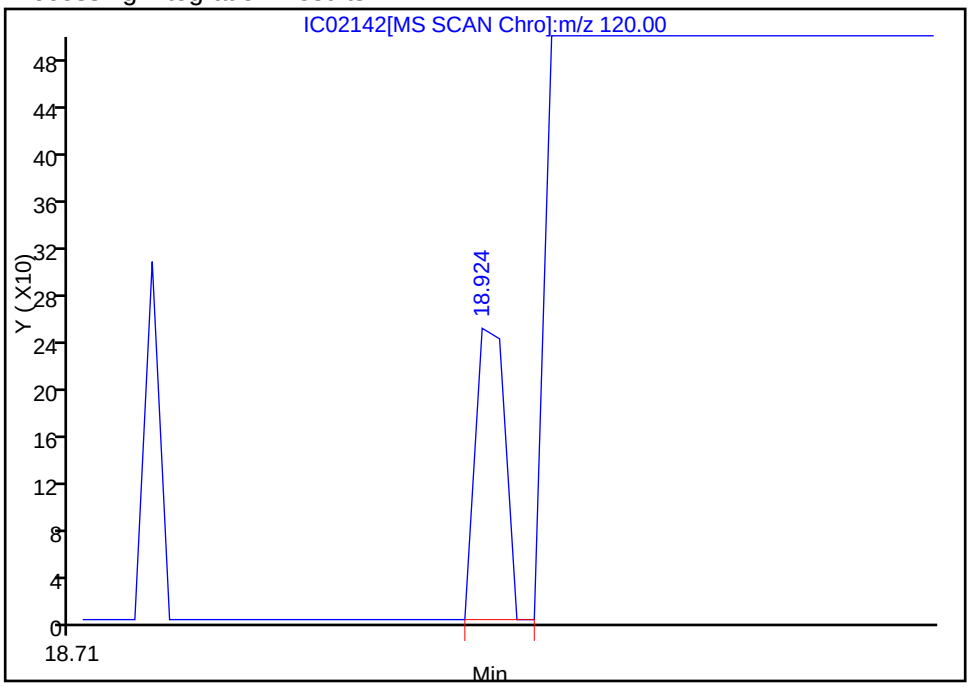
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Injection Date:	14-Feb-2013 10:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	4
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

124 4-Ethyltoluene, Signal: 1, m/z: 120.0 Type: quant, RT: 19.25

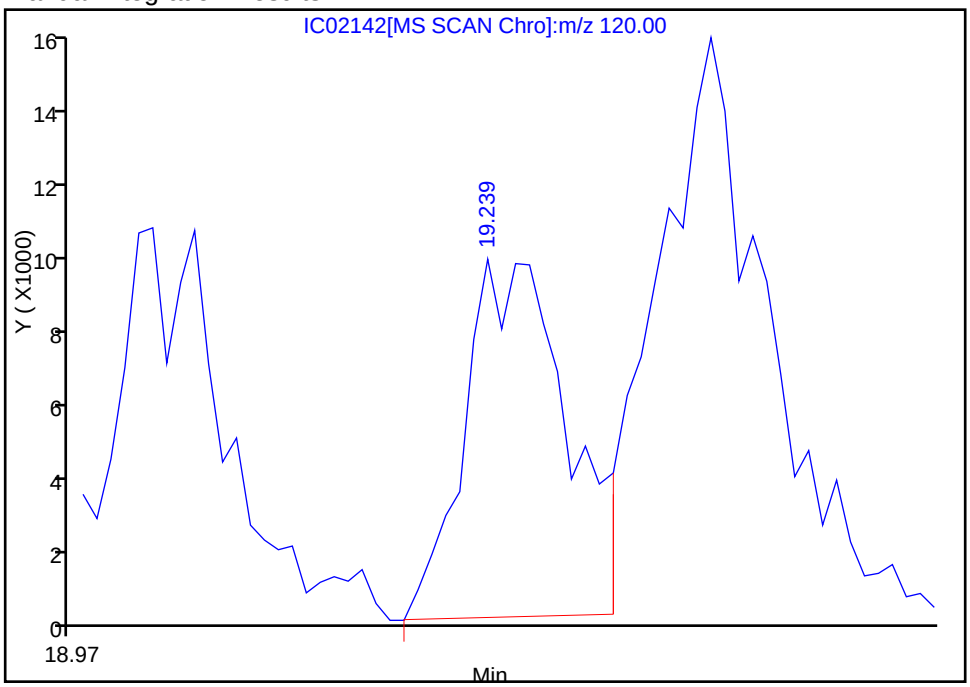
Processing Integration Results

RT: 18.92
Response: 265
Amount: 4.320000



Manual Integration Results

RT: 19.24
Response: 43832
Amount: 3.592590



Reviewer: kammererd, 14-Feb-2013 11:26:56
Audit Action: Manually Integrated
Audit Reason: Not Integrated

Manual Integration/User Assign Peak Report

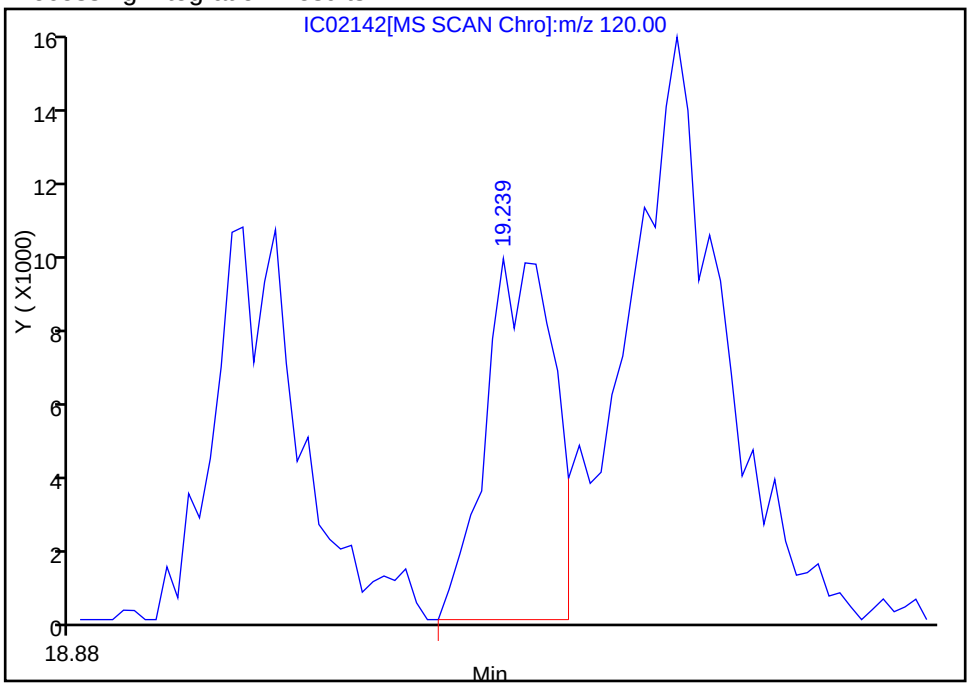
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02142.D		
Injection Date:	14-Feb-2013 10:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	4
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

125 1,3,5-Trimethylbenzene, Signal: 1, m/z: 120.0 Type: quant, RT: 19.38

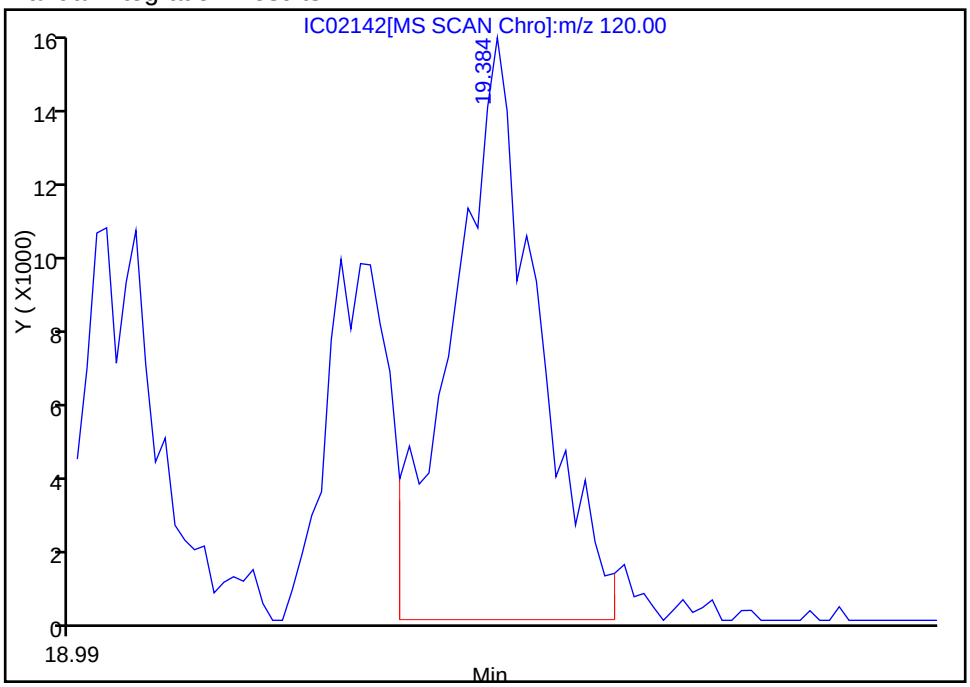
Processing Integration Results

RT: 19.24
Response: 38058
Amount: 4.400000



Manual Integration Results

RT: 19.38
Response: 83623
Amount: 3.913954



Reviewer: kammererd, 14-Feb-2013 11:26:56
Audit Action: Manually Integrated
Audit Reason: Wrong peak

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 11:27:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	3
Sample ID:	IC		
Misc. Info.:	340-0002766-005		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	4057	Lims Sample ID:	5
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 12:31:06	Calib Date:	14-Feb-2013 11:27:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: kammererd Date: 14-Feb-2013 12:31:06

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.330	2.335	-0.004	93	39492	10.8	
10 Dichlorodifluoromethane	85	2.420	2.426	-0.004	98	390882	11.0	
11 Chlorodifluoromethane	51	2.438	2.435	0.004	77	191549	11.6	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.700	2.697	0.005	88	412891	10.9	
14 Chloromethane	50	2.727	2.733	-0.004	92	119206	11.2	
15 Vinyl chloride	62	2.962	2.958	0.005	87	85516	10.1	
16 Butane	43	2.962	2.967	-0.004	93	120057	10.3	
17 Butadiene	39	3.043	3.040	0.005	88	74924	10.7	
18 Bromomethane	94	3.575	3.572	0.005	97	64084	9.44	
20 Chloroethane	64	3.774	3.771	0.005	81	38169	10.8	
22 Vinyl bromide	106	4.144	4.141	0.005	82	137376	10.0	
23 Trichlorofluoromethane	101	4.297	4.313	-0.013	94	404547	11.0	
25 Pentane	43	4.468	4.475	-0.005	91	177009	10.5	
28 Ethyl ether	59	4.911	4.908	0.004	91	65924	11.5	
29 Acrolein	56	5.181	5.170	0.014	44	24824	9.87	
30 1,1-Dichloroethene	61	5.298	5.306	-0.005	88	207275	11.0	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.344	5.369	-0.022	95	445277	11.2	
33 Acetone	58	5.497	5.468	0.032	80	31734	11.7	
34 Carbon disulfide	76	5.686	5.667	0.022	97	224722	10.9	
37 Isopropyl alcohol	45	5.894	5.874	0.023	70	143951	14.6	
38 3-Chloro-1-propene	41	6.029	6.010	0.023	74	77398	11.0	
39 Methylene Chloride	49	6.255	6.253	0.005	93	219879	5.87	
42 Acrylonitrile	53	6.850	6.850	0.104	0	44884	10.0	M
41 trans-1,2-Dichloroethene	61	6.796	6.786	0.014	89	191955	10.8	
43 Methyl tert-butyl ether	73	6.832	6.831	0.004	91	343464	11.5	
45 Hexane	41	7.320	7.337	-0.013	83	141984	9.30	
A 44 C6 Range	1	7.352	7.233 -	7.471	0	904897	9.84	
46 1,1-Dichloroethane	63	7.554	7.562	-0.004	94	196561	10.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.771	7.771	0.041	98	255772	11.8	M
52 cis-1,2-Dichloroethene	96	8.646	8.628	0.023	93	119605	11.8	
53 2-Butanone (MEK)	72	8.718	8.700	0.023	87	43153	12.8	
54 Ethyl acetate	43	8.862	8.862	0.031	0	293464	10.0	M
* 56 Chlorobromomethane (IS)	130	9.061	9.056	0.005	83	647066	50.0	
58 Tetrahydrofuran	42	9.178	9.160	0.023	86	107251	12.0	
59 Chloroform	83	9.214	9.223	-0.005	86	262349	10.4	
60 1,1,1-Trichloroethane	97	9.530	9.521	0.014	87	270837	10.8	
62 Cyclohexane	84	9.620	9.639	-0.014	93	134445	11.2	
64 Carbon tetrachloride	117	9.837	9.837	0.005	98	234471	12.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.099	10.099	0.005	0	742309	48.7	
67 Benzene	78	10.216	10.188	0.032	70	253419	9.95	
68 1,2-Dichloroethane	62	10.234	10.225	0.014	62	150257	10.9	
70 Isooctane	57	10.369	10.360	0.014	93	663372	10.7	
71 n-Heptane	43	10.712	10.712	0.005	86	235977	11.4	
* 73 1,4-Difluorobenzene	114	10.893	10.888	0.005	91	2371650	50.0	
74 Trichloroethene	130	11.371	11.353	0.023	93	197538	12.0	
75 1,2-Dichloropropane	76	11.741	11.732	0.014	81	66637	12.1	
76 Dibromomethane	174	11.975	11.958	0.023	84	292084	9.01	
77 Methyl methacrylate	69	11.975	11.985	-0.005	66	131628	11.8	
79 1,4-Dioxane	88	12.020	12.003	0.022	78	77056	11.2	
80 Dichlorobromomethane	85	12.246	12.228	0.023	96	201970	11.6	
81 cis-1,3-Dichloropropene	75	13.058	13.041	0.023	92	179457	11.5	
83 4-Methyl-2-pentanone (MIBK)	58	13.338	13.330	0.014	87	108061	12.1	
$ 85 Toluene-d8 (Surr)	100	13.545	13.537	0.014	98	1189312	48.1	
87 Toluene	91	13.672	13.673	0.005	75	329484	12.4	
88 n-Octane	43	13.888	13.887	0.005	94	359824	12.1	
89 trans-1,3-Dichloropropene	75	14.060	14.050	0.014	89	182946	13.1	
91 1,1,2-Trichloroethane	97	14.393	14.384	0.013	92	159397	11.2	
A 95 TVOC as Toluene	1	14.588	2.620 -	26.556	0	90982498	0	
96 Tetrachloroethene	166	14.691	14.682	0.014	94	329226	11.4	
A 97 PCE Range	1	14.693	14.587 -	14.798	0	1796326	9.93	
98 2-Hexanone	58	14.881	14.862	0.023	92	115816	11.8	
99 Chlorodibromomethane	129	15.133	15.124	0.014	92	350518	13.8	
101 Ethylene Dibromide	107	15.359	15.340	0.023	97	330725	12.6	
* 102 Chlorobenzene-d5 (IS)	117	16.234	16.229	0.005	85	1804689	50.0	
103 Chlorobenzene	112	16.288	16.279	0.014	86	280249	12.3	
105 Ethylbenzene	91	16.496	16.496	0.005	98	437422	12.3	
107 m-Xylene & p-Xylene	91	16.730	16.721	0.014	0	767047	26.2	
109 n-Nonane	43	16.784	16.775	0.013	91	379039	12.5	
S 110 Xylenes, Total	106				0		40.1	
112 o-Xylene	106	17.497	17.498	0.005	88	182616	13.9	
113 Styrene	104	17.542	17.525	0.023	83	246582	14.0	
114 Bromoform	173	17.876	17.877	0.005	96	377659	11.9	
115 Isopropylbenzene	120	18.210	18.211	0.005	95	160366	11.2	
$ 117 4-Bromofluorobenzene (Surr)	95	18.517	18.526	-0.004	92	2033047	49.9	
119 1,1,2,2-Tetrachloroethane	83	18.769	18.770	0.004	92	382457	13.9	
121 1,2,3-Trichloropropane	110	18.878	18.860	0.023	83	121020	10.9	
122 N-Propylbenzene	91	19.022	19.032	-0.004	97	639726	12.7	
123 2-Chlorotoluene	126	19.202	19.203	0.004	91	149436	13.5	
124 4-Ethyltoluene	120	19.257	19.257	0.005	92	151876	12.6	
125 1,3,5-Trimethylbenzene	120	19.392	19.384	0.014	87	257457	12.2	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
126 n-Decane	57	19.410	19.411	0.005	90	438330	12.1	
127 Alpha Methyl Styrene	118	19.834	19.835	0.005	82	195426	12.5	
128 tert-Butylbenzene	91	20.033	20.025	0.014	91	405486	12.0	
129 1,2,4-Trimethylbenzene	120	20.141	20.133	0.014	64	228793	12.6	
130 sec-Butylbenzene	105	20.475	20.467	0.014	96	736395	11.4	
131 1,3-Dichlorobenzene	146	20.700	20.702	0.005	97	359628	12.4	
132 4-Isopropyltoluene	119	20.763	20.765	0.004	88	619237	11.5	
133 1,4-Dichlorobenzene	146	20.890	20.882	0.014	94	369086	11.7	
135 Benzyl chloride	91	21.142	21.135	0.014	93	331370	12.8	
136 n-Butylbenzene	92	21.530	21.532	0.004	96	298357	12.5	
137 1,2-Dichlorobenzene	146	21.557	21.559	0.004	93	338175	12.1	
138 Undecane	57	21.702	21.694	0.014	95	463290	12.2	
140 Dodecane	57	23.290	23.229	0.068	93	267009	11.9	
142 1,2,4-Trichlorobenzene	180	23.939	23.869	0.077	86	288164	14.3	
143 Hexachlorobutadiene	225	24.165	24.095	0.077	93	390600	13.7	
145 Naphthalene	128	24.318	24.230	0.095	98	360862	14.2	
146 1,2,3-Trichlorobenzene	180	24.643	24.564	0.086	94	248588	13.6	

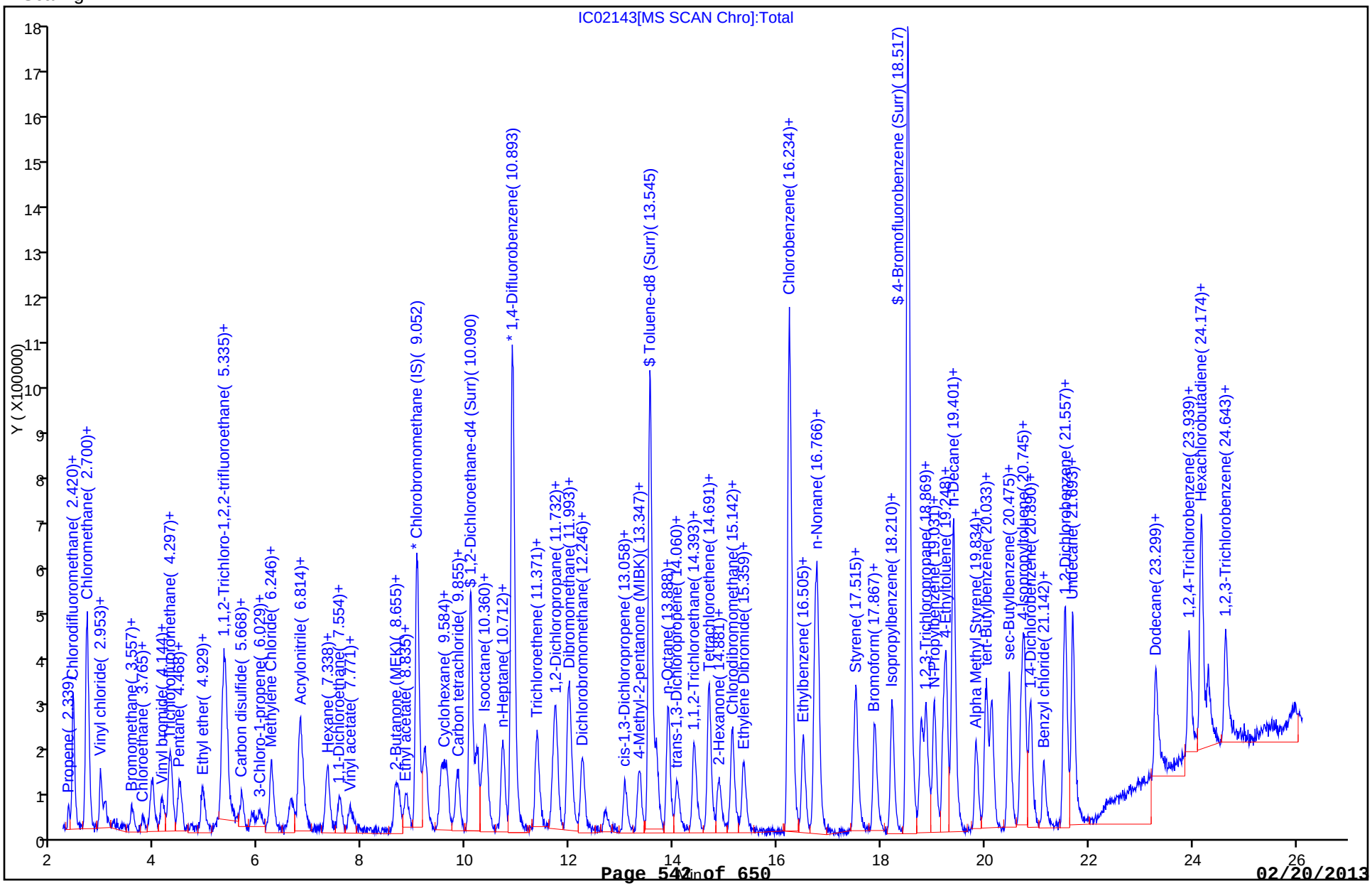
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 14-Feb-2013 12:31:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Injection Date:	14-Feb-2013 11:27:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	5
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



Manual Integration/User Assign Peak Report

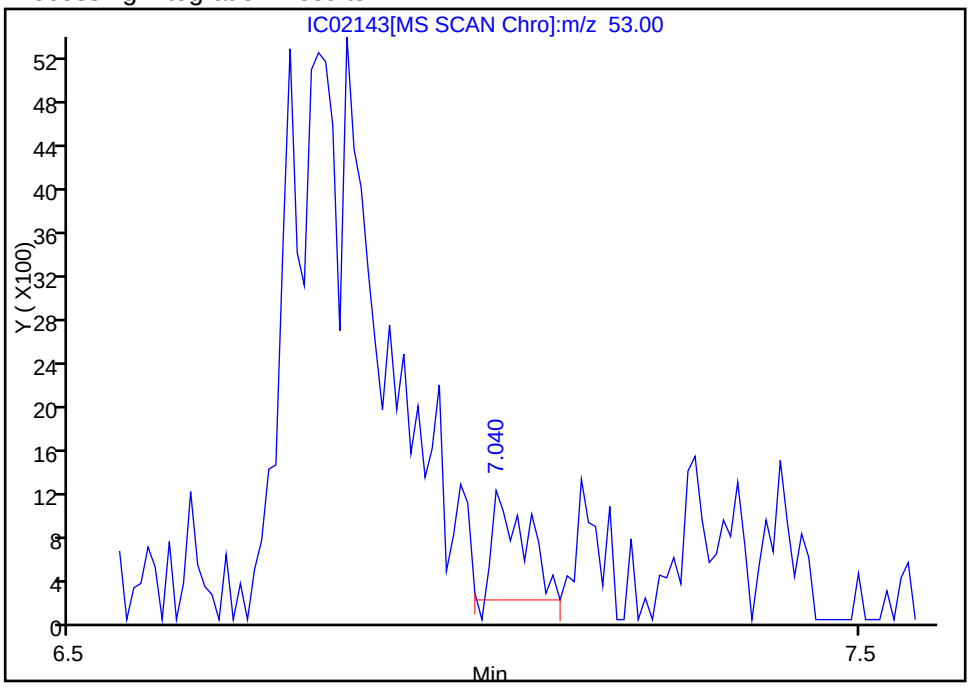
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Injection Date:	14-Feb-2013 11:27:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	5
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

42 Acrylonitrile, Signal: 1, m/z: 53.0 Type: quant, RT: 6.75

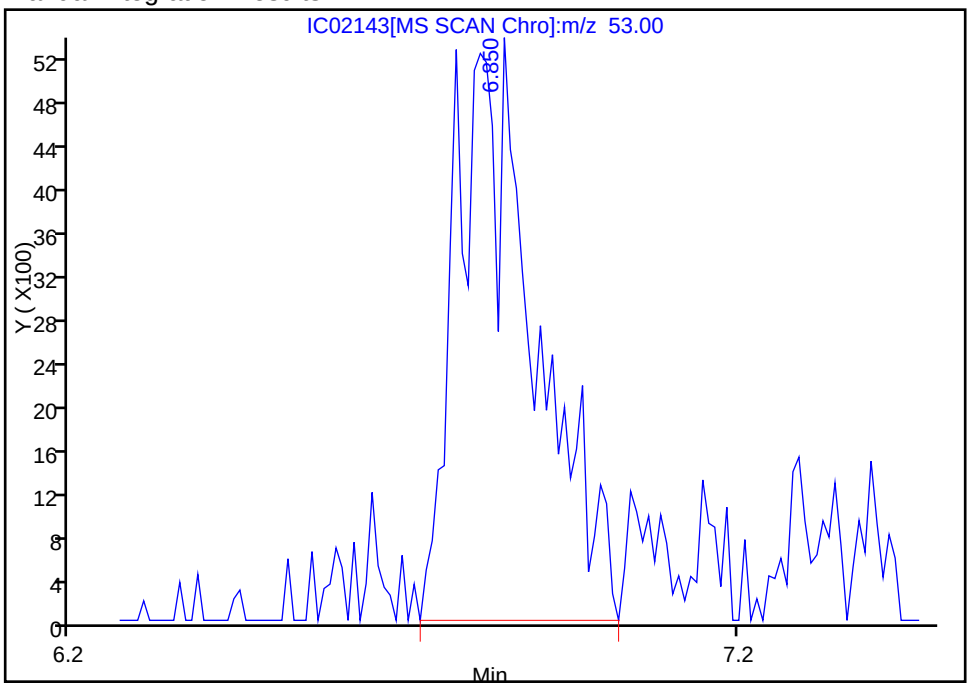
Processing Integration Results

RT: 7.04
Response: 2878
Amount: 5.236253



Manual Integration Results

RT: 6.85
Response: 44884
Amount: 10.000000



Reviewer: kammererd, 14-Feb-2013 12:31:06
Audit Action: Manually Integrated
Audit Reason: Not Integrated

Report Date: 14-Feb-2013 12:31:07 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

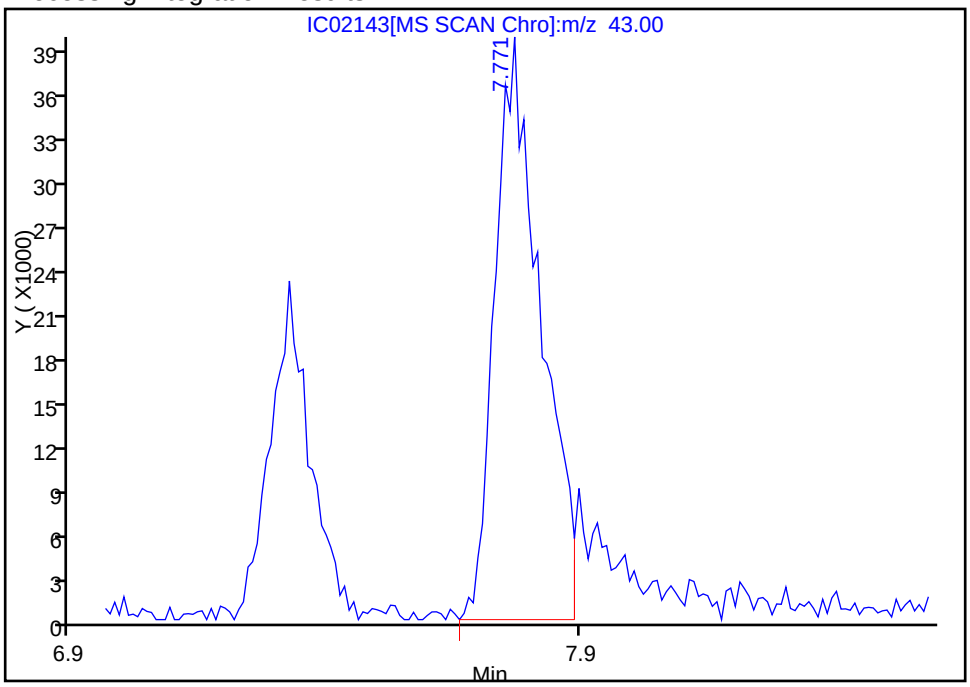
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Injection Date:	14-Feb-2013 11:27:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	5
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

48 Vinyl acetate, Signal: 1, m/z: 43.0 Type: quant, RT: 7.73

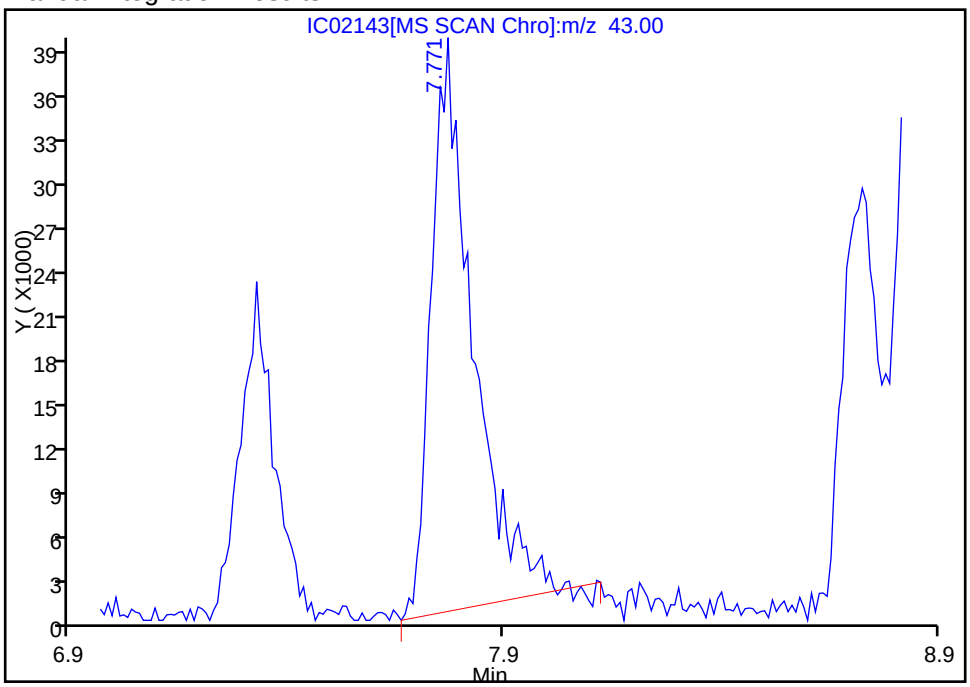
Processing Integration Results

RT: 7.77
Response: 244309
Amount: 11.583012



Manual Integration Results

RT: 7.77
Response: 255772
Amount: 11.834144



Reviewer: kammererd, 14-Feb-2013 12:31:06
Audit Action: Manually Integrated
Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

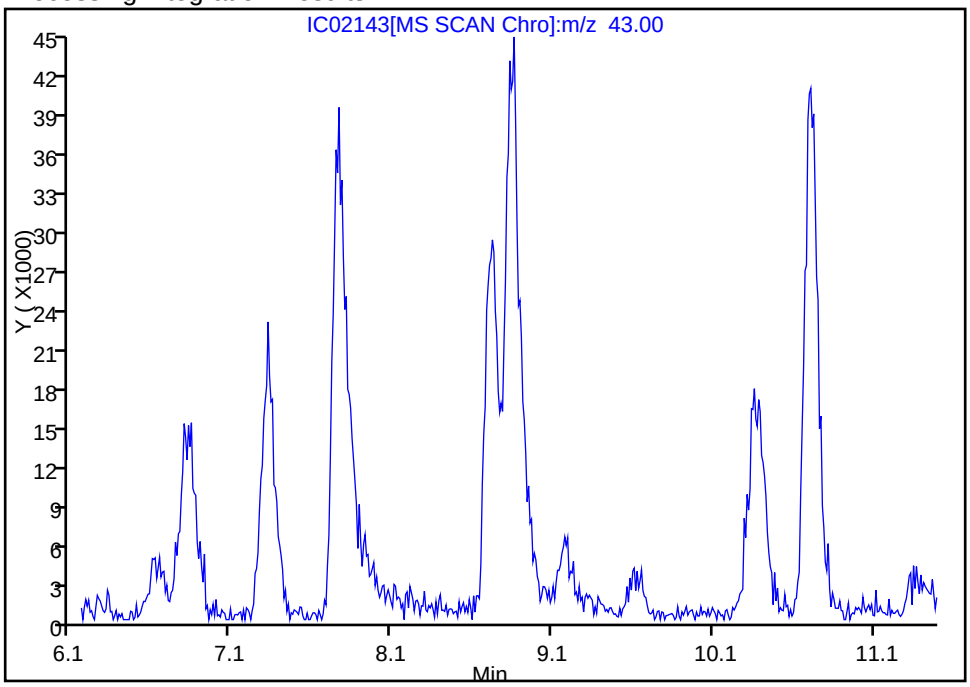
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02143.D		
Injection Date:	14-Feb-2013 11:27:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	5
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

54 Ethyl acetate, Signal: 1, m/z: 43.0 Type: quant, RT: 8.83

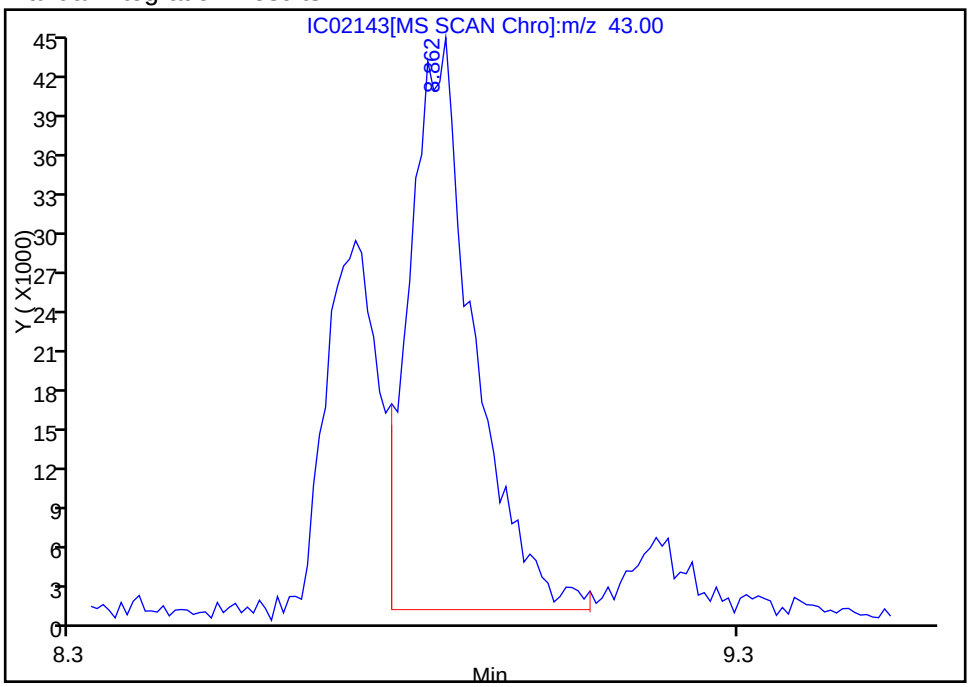
Processing Integration Results

Not Detected
Expected RT: 8.83



Manual Integration Results

RT: 8.86
Response: 293464
Amount: 10.000000



Reviewer: yabutl, 14-Feb-2013 12:11:26
Audit Action: Manually Integrated
Audit Reason: Baseline

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02144.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 12:04:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	4
Sample ID:	IC		
Misc. Info.:	340-0002766-006		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	2
Lims Batch ID:	4057	Lims Sample ID:	6
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 13:24:46	Calib Date:	14-Feb-2013 12:44:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02145.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: yabutl Date: 14-Feb-2013 13:02:07

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.343	2.334	0.009	94	80627	21.8	
10 Dichlorodifluoromethane	85	2.424	2.391	0.033	98	738675	20.0	
11 Chlorodifluoromethane	51	2.442	2.400	0.042	71	367704	21.5	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.703	2.671	0.032	88	767557	19.8	
14 Chloromethane	50	2.731	2.698	0.033	99	236524	21.1	
15 Vinyl chloride	62	2.965	2.933	0.032	86	161234	19.1	
16 Butane	43	2.965	2.933	0.032	94	241805	20.6	
17 Butadiene	39	3.055	3.023	0.032	96	132017	19.3	
18 Bromomethane	94	3.570	3.546	0.024	95	142707	20.7	
20 Chloroethane	64	3.786	3.754	0.032	81	68830	19.1	
22 Vinyl bromide	106	4.156	4.133	0.023	92	260454	18.0	
23 Trichlorofluoromethane	101	4.310	4.286	0.024	98	815234	21.1	
25 Pentane	43	4.499	4.467	0.032	97	350187	20.4	
28 Ethyl ether	59	4.923	4.909	0.014	93	147246	22.9	
29 Acrolein	56	5.176	5.143	0.033	67	41377	17.4	
30 1,1-Dichloroethene	61	5.311	5.288	0.023	97	388648	20.0	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.365	5.360	0.005	95	838941	20.3	
33 Acetone	58	5.473	5.459	0.014	79	70640	22.1	
34 Carbon disulfide	76	5.690	5.667	0.023	98	430038	20.0	
37 Isopropyl alcohol	45	5.879	5.856	0.023	94	266744	24.3	
38 3-Chloro-1-propene	41	6.042	6.009	0.033	88	210412	24.2	
39 Methylene Chloride	49	6.258	6.244	0.014	94	328367	22.7	
42 Acrylonitrile	53	6.791	6.758	0.033	33	81833	18.3	
41 trans-1,2-Dichloroethene	61	6.791	6.767	0.024	89	365041	19.8	
43 Methyl tert-butyl ether	73	6.827	6.822	0.005	93	664719	21.6	
45 Hexane	41	7.332	7.327	0.005	85	303271	19.8	
A 44 C6 Range	1	7.352	7.227 -	7.465	0	1641618	18.5	
46 1,1-Dichloroethane	63	7.585	7.561	0.024	97	414373	21.4	

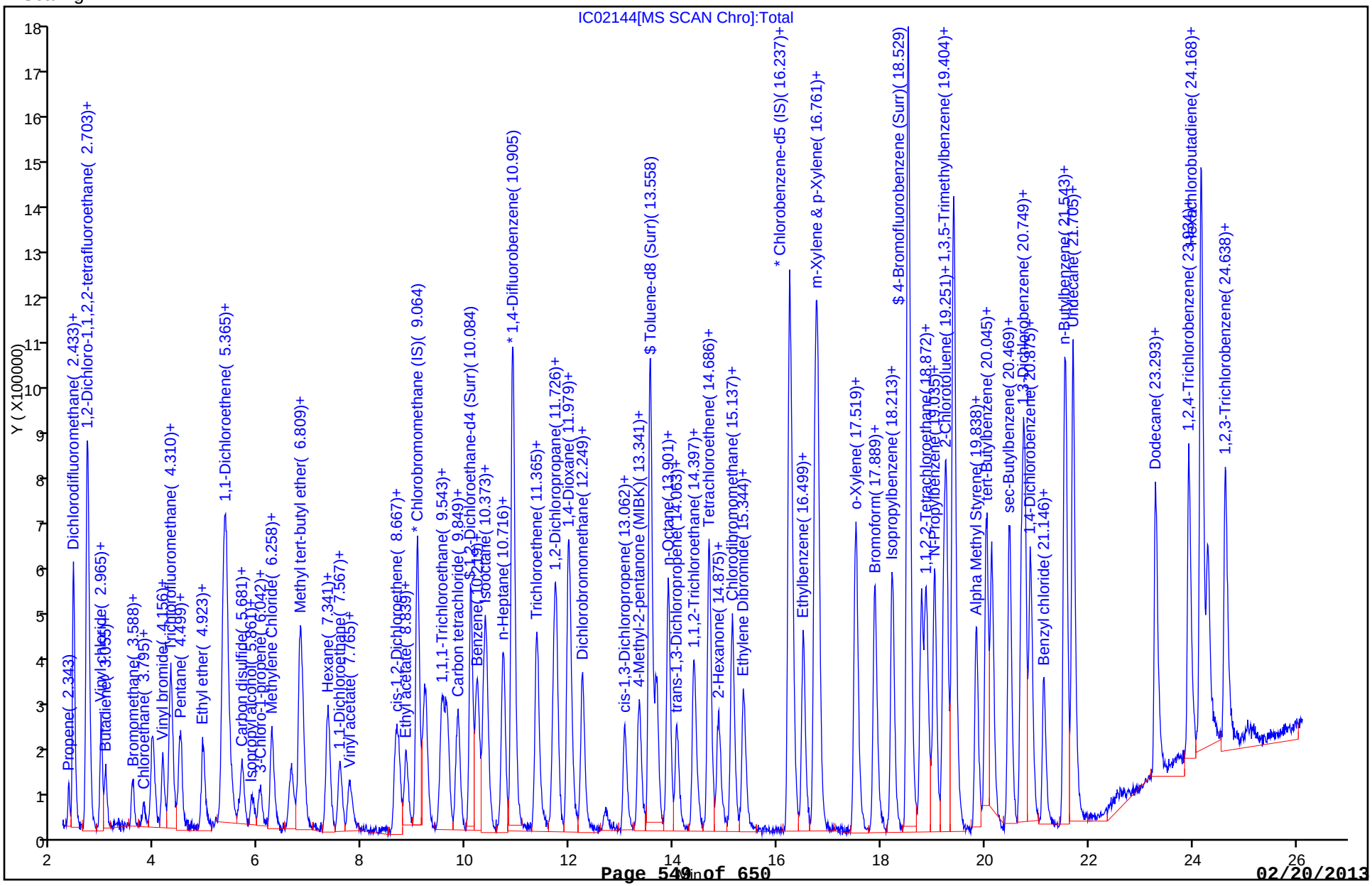
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.747	7.733	0.014	100	528424	23.3	
52 cis-1,2-Dichloroethene	96	8.658	8.635	0.023	93	235081	22.1	
53 2-Butanone (MEK)	72	8.722	8.698	0.024	99	84264	22.8	
54 Ethyl acetate	43	8.839	8.825	0.014	96	575199	20.2	
* 56 Chlorobromomethane (IS)	130	9.073	9.059	0.014	84	671125	50.0	
58 Tetrahydrofuran	42	9.182	9.158	0.024	92	211122	22.7	
59 Chloroform	83	9.227	9.213	0.014	97	499079	19.4	
60 1,1,1-Trichloroethane	97	9.543	9.537	0.006	91	549613	20.8	
62 Cyclohexane	84	9.642	9.619	0.023	93	282599	22.3	
64 Carbon tetrachloride	117	9.849	9.826	0.023	96	475035	22.4	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.102	10.088	0.014	0	783744	50.3	
67 Benzene	78	10.210	10.196	0.014	95	497040	19.6	
68 1,2-Dichloroethane	62	10.246	10.223	0.023	85	282827	20.4	
70 Isooctane	57	10.373	10.367	0.006	96	1324193	20.4	
71 n-Heptane	43	10.716	10.710	0.006	94	484023	22.3	
* 73 1,4-Difluorobenzene	114	10.905	10.900	0.005	91	2432488	50.0	
74 Trichloroethene	130	11.383	11.360	0.023	95	401391	22.8	
75 1,2-Dichloropropane	76	11.744	11.730	0.014	84	125890	21.9	
76 Dibromomethane	174	11.970	11.955	0.015	86	539303	17.9	
77 Methyl methacrylate	69	11.988	11.982	0.006	91	258010	21.9	
79 1,4-Dioxane	88	12.015	12.001	0.014	69	147088	21.1	
80 Dichlorobromomethane	85	12.240	12.244	-0.004	96	405302	22.1	
81 cis-1,3-Dichloropropene	75	13.052	13.056	-0.004	94	382143	22.0	
83 4-Methyl-2-pentanone (MIBK)	58	13.350	13.318	0.032	97	217633	22.6	
$ 85 Toluene-d8 (Surr)	100	13.558	13.543	0.015	98	1286653	50.4	
A 86 Toluene Range	1	13.575	13.500	-13.650	0	418892	29.4	
87 Toluene	91	13.684	13.661	0.023	83	654528	22.9	
88 n-Octane	43	13.910	13.904	0.006	92	699581	22.0	
89 trans-1,3-Dichloropropene	75	14.063	14.049	0.014	96	365164	23.6	
91 1,1,2-Trichloroethane	97	14.388	14.383	0.006	93	335050	22.1	
A 95 TVOC as Toluene	1	14.585	2.591 -	26.685	0	176923901	12407	
96 Tetrachloroethene	166	14.686	14.689	-0.003	96	649963	21.0	
A 97 PCE Range	1	14.693	14.599	-14.810	0	3440548	19.2	
98 2-Hexanone	58	14.866	14.852	0.014	96	259694	23.7	
99 Chlorodibromomethane	129	15.137	15.131	0.006	95	722920	24.4	
101 Ethylene Dibromide	107	15.353	15.339	0.014	99	676435	23.3	
* 102 Chlorobenzene-d5 (IS)	117	16.237	16.232	0.005	84	1865236	50.0	
103 Chlorobenzene	112	16.292	16.286	0.006	90	587742	23.7	
105 Ethylbenzene	91	16.499	16.494	0.005	98	934228	23.8	
107 m-Xylene & p-Xylene	91	16.725	16.728	-0.003	0	1583576	48.0	
109 n-Nonane	43	16.788	16.783	0.005	90	803476	23.0	
S 110 Xylenes, Total	106				0		72.4	
112 o-Xylene	106	17.510	17.495	0.015	88	364675	24.4	
113 Styrene	104	17.537	17.522	0.015	88	516328	25.1	
114 Bromoform	173	17.880	17.874	0.006	96	857956	22.9	
115 Isopropylbenzene	120	18.222	18.217	0.005	95	328889	21.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.520	18.515	0.005	93	2052234	49.4	
119 1,1,2,2-Tetrachloroethane	83	18.782	18.777	0.005	92	797323	25.0	
121 1,2,3-Trichloropropane	110	18.881	18.867	0.014	90	250026	20.7	
122 N-Propylbenzene	91	19.035	19.029	0.006	96	1325870	22.9	
123 2-Chlorotoluene	126	19.215	19.210	0.005	94	307559	24.3	
124 4-Ethyltoluene	120	19.269	19.255	0.014	92	322664	23.6	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
125 1,3,5-Trimethylbenzene	120	19.386	19.390	-0.004	87	524733	22.6	
126 n-Decane	57	19.404	19.399	0.005	89	941660	23.2	
127 Alpha Methyl Styrene	118	19.847	19.823	0.024	81	425093	23.5	
128 tert-Butylbenzene	91	20.045	20.031	0.014	90	896609	23.5	
129 1,2,4-Trimethylbenzene	120	20.135	20.130	0.005	69	498463	24.1	
130 sec-Butylbenzene	105	20.478	20.473	0.005	93	1562239	21.5	
131 1,3-Dichlorobenzene	146	20.713	20.707	0.006	96	783849	24.0	
132 4-Isopropyltoluene	119	20.767	20.762	0.005	92	1314991	21.6	
133 1,4-Dichlorobenzene	146	20.875	20.879	-0.004	92	801883	23.0	
135 Benzyl chloride	91	21.146	21.131	0.015	98	708537	23.2	
136 n-Butylbenzene	92	21.534	21.528	0.006	97	626085	22.9	
137 1,2-Dichlorobenzene	146	21.570	21.565	0.005	94	749058	23.8	
138 Undecane	57	21.705	21.700	0.005	95	1020565	22.6	
140 Dodecane	57	23.302	23.297	0.005	98	707000	24.1	
142 1,2,4-Trichlorobenzene	180	23.934	23.938	-0.004	88	725039	26.7	
143 Hexachlorobutadiene	225	24.177	24.172	0.005	94	958497	26.3	
145 Naphthalene	128	24.313	24.298	0.015	98	958637	27.1	
146 1,2,3-Trichlorobenzene	180	24.638	24.641	-0.003	97	672203	26.7	

Report Date: 14-Feb-2013 13:24:47 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02144.D		
Injection Date:	14-Feb-2013 12:04:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	6
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02145.D		
Lims ID:	ICIS	Client ID:	
Inject. Date:	14-Feb-2013 12:44:30	Dil. Factor:	1.0000
Sample Type:	ICIS	Calib Level:	5
Sample ID:	ICIS		
Misc. Info.:	340-0002766-007		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	4057	Lims Sample ID:	7
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 14:21:27	Calib Date:	14-Feb-2013 13:25:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02146.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: kammererd Date: 14-Feb-2013 14:21:27

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.292	2.292	0.0	0	82742	25.4	M
10 Dichlorodifluoromethane	85	2.391	2.391	0.0	99	1885666	50.4	
11 Chlorodifluoromethane	51	2.400	2.400	0.0	94	924157	53.3	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.671	2.671	0.0	91	1929037	49.2	
14 Chloromethane	50	2.698	2.698	0.0	97	574032	50.4	
15 Vinyl chloride	62	2.933	2.933	0.0	95	407669	47.9	
16 Butane	43	2.933	2.933	0.0	93	609589	51.7	
17 Butadiene	39	3.023	3.023	0.0	91	332635	48.6	
18 Bromomethane	94	3.546	3.546	0.0	98	318542	46.1	
20 Chloroethane	64	3.754	3.754	0.0	97	184616	50.1	
22 Vinyl bromide	106	4.133	4.133	0.0	98	691608	47.1	
23 Trichlorofluoromethane	101	4.286	4.286	0.0	97	1942132	49.9	
25 Pentane	43	4.467	4.467	0.0	94	838072	48.4	
28 Ethyl ether	59	4.909	4.909	0.0	90	357268	53.6	
29 Acrolein	56	5.143	5.143	0.0	72	101622	44.0	
30 1,1-Dichloroethene	61	5.288	5.288	0.0	99	972883	49.6	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.360	5.360	0.0	94	2099997	50.2	
33 Acetone	58	5.459	5.459	0.0	83	186175	56.7	
34 Carbon disulfide	76	5.667	5.667	0.0	97	1115839	50.8	
37 Isopropyl alcohol	45	5.856	5.856	0.0	95	731947	64.1	
38 3-Chloro-1-propene	41	6.009	6.009	0.0	90	520670	56.9	
39 Methylene Chloride	49	6.244	6.244	0.0	96	629397	57.8	
42 Acrylonitrile	53	6.758	6.758	0.0	40	238822	51.9	
41 trans-1,2-Dichloroethene	61	6.767	6.767	0.0	94	939845	50.4	
43 Methyl tert-butyl ether	73	6.822	6.822	0.0	95	1656478	53.2	
45 Hexane	41	7.327	7.327	0.0	89	739895	48.0	
A 44 C6 Range	1	7.335	7.227 -	7.465	0	3917522	44.2	
46 1,1-Dichloroethane	63	7.561	7.561	0.0	99	998959	50.4	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.733	7.733	0.0	99	1228614	56.3	
52 cis-1,2-Dichloroethene	96	8.635	8.635	0.0	96	585444	53.6	
53 2-Butanone (MEK)	72	8.698	8.698	0.0	98	227815	59.9	
54 Ethyl acetate	43	8.825	8.825	0.0	98	1349704	47.6	
* 56 Chlorobromomethane (IS)	130	9.059	9.059	0.0	84	690507	50.0	
58 Tetrahydrofuran	42	9.158	9.158	0.0	93	505118	53.4	
59 Chloroform	83	9.213	9.213	0.0	98	1305631	50.0	
60 1,1,1-Trichloroethane	97	9.537	9.537	0.0	90	1349695	50.5	
62 Cyclohexane	84	9.619	9.619	0.0	93	700504	54.5	
64 Carbon tetrachloride	117	9.826	9.826	0.0	98	1294743	59.1	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.088	10.088	0.0	0	763781	47.8	
67 Benzene	78	10.196	10.196	0.0	97	1230614	52.2	
68 1,2-Dichloroethane	62	10.223	10.223	0.0	91	719257	55.3	
70 Isooctane	57	10.367	10.367	0.0	96	3177229	51.9	
71 n-Heptane	43	10.710	10.710	0.0	94	1145593	56.0	
* 73 1,4-Difluorobenzene	114	10.900	10.900	0.0	92	2289017	50.0	
74 Trichloroethene	130	11.360	11.360	0.0	95	965073	57.7	
75 1,2-Dichloropropane	76	11.730	11.730	0.0	84	302130	55.8	
76 Dibromomethane	174	11.955	11.955	0.0	86	1309471	47.5	
77 Methyl methacrylate	69	11.982	11.982	0.0	92	619262	55.6	
79 1,4-Dioxane	88	12.001	12.001	0.0	62	361041	54.9	
80 Dichlorobromomethane	85	12.244	12.244	0.0	95	1001560	57.5	
81 cis-1,3-Dichloropropene	75	13.056	13.056	0.0	95	926083	55.5	
83 4-Methyl-2-pentanone (MIBK)	58	13.318	13.318	0.0	98	541816	58.5	
$ 85 Toluene-d8 (Surr)	100	13.543	13.543	0.0	97	1222724	50.6	
A 86 Toluene Range	1	13.575	13.500	-13.650	0	356394	27.7	
87 Toluene	91	13.661	13.661	0.0	87	1591195	58.3	
88 n-Octane	43	13.904	13.904	0.0	93	1758338	56.6	
89 trans-1,3-Dichloropropene	75	14.049	14.049	0.0	95	927460	60.7	
91 1,1,2-Trichloroethane	97	14.383	14.383	0.0	93	836080	56.9	
A 95 TVOC as Toluene	1	14.638	2.517 -	26.685	0	439793880	34190	
96 Tetrachloroethene	166	14.689	14.689	0.0	97	1608038	53.3	
A 97 PCE Range	1	14.705	14.599	-14.810	0	8341857	48.8	
98 2-Hexanone	58	14.852	14.852	0.0	97	674275	61.7	
99 Chlorodibromomethane	129	15.131	15.131	0.0	95	1942778	65.1	
101 Ethylene Dibromide	107	15.339	15.339	0.0	99	1701888	59.6	
* 102 Chlorobenzene-d5 (IS)	117	16.232	16.232	0.0	84	1808510	50.0	
103 Chlorobenzene	112	16.286	16.286	0.0	90	1418688	58.3	
105 Ethylbenzene	91	16.494	16.494	0.0	99	2289557	59.2	
107 m-Xylene & p-Xylene	91	16.728	16.728	0.0	0	3932206	121.0	
109 n-Nonane	43	16.783	16.783	0.0	90	1949287	56.5	
S 110 Xylenes, Total	106				0		183.0	
112 o-Xylene	106	17.495	17.495	0.0	87	914693	61.9	
113 Styrene	104	17.522	17.522	0.0	90	1320238	64.0	
114 Bromoform	173	17.874	17.874	0.0	97	2356212	62.0	
115 Isopropylbenzene	120	18.217	18.217	0.0	97	804916	52.3	
$ 117 4-Bromofluorobenzene (Surr)	95	18.515	18.515	0.0	92	1961445	48.9	
119 1,1,2,2-Tetrachloroethane	83	18.777	18.777	0.0	94	2002671	63.2	
121 1,2,3-Trichloropropane	110	18.867	18.867	0.0	92	617809	52.8	
122 N-Propylbenzene	91	19.029	19.029	0.0	98	3265414	56.8	
123 2-Chlorotoluene	126	19.210	19.210	0.0	95	750076	60.0	
124 4-Ethyltoluene	120	19.255	19.255	0.0	92	784075	58.8	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
125 1,3,5-Trimethylbenzene	120	19.390	19.390	0.0	89	1346755	59.1	
126 n-Decane	57	19.399	19.399	0.0	91	2333640	58.6	
127 Alpha Methyl Styrene	118	19.823	19.823	0.0	82	1109444	61.2	
128 tert-Butylbenzene	91	20.031	20.031	0.0	89	2165902	58.0	
129 1,2,4-Trimethylbenzene	120	20.130	20.130	0.0	66	1157066	56.9	
130 sec-Butylbenzene	105	20.473	20.473	0.0	93	3825040	53.7	
131 1,3-Dichlorobenzene	146	20.707	20.707	0.0	96	1874504	58.7	
132 4-Isopropyltoluene	119	20.762	20.762	0.0	94	3226924	54.0	
133 1,4-Dichlorobenzene	146	20.879	20.879	0.0	93	1983086	58.5	
135 Benzyl chloride	91	21.131	21.131	0.0	95	1944087	62.9	
136 n-Butylbenzene	92	21.528	21.528	0.0	97	1559850	57.5	
137 1,2-Dichlorobenzene	146	21.565	21.565	0.0	95	1806783	58.7	
138 Undecane	57	21.700	21.700	0.0	95	2477329	55.3	
140 Dodecane	57	23.297	23.297	0.0	96	1730345	60.7	
142 1,2,4-Trichlorobenzene	180	23.938	23.938	0.0	94	1803207	59.1	
143 Hexachlorobutadiene	225	24.172	24.172	0.0	94	2307581	63.5	
145 Naphthalene	128	24.298	24.298	0.0	98	2437537	68.3	
146 1,2,3-Trichlorobenzene	180	24.641	24.641	0.0	96	1699174	67.1	

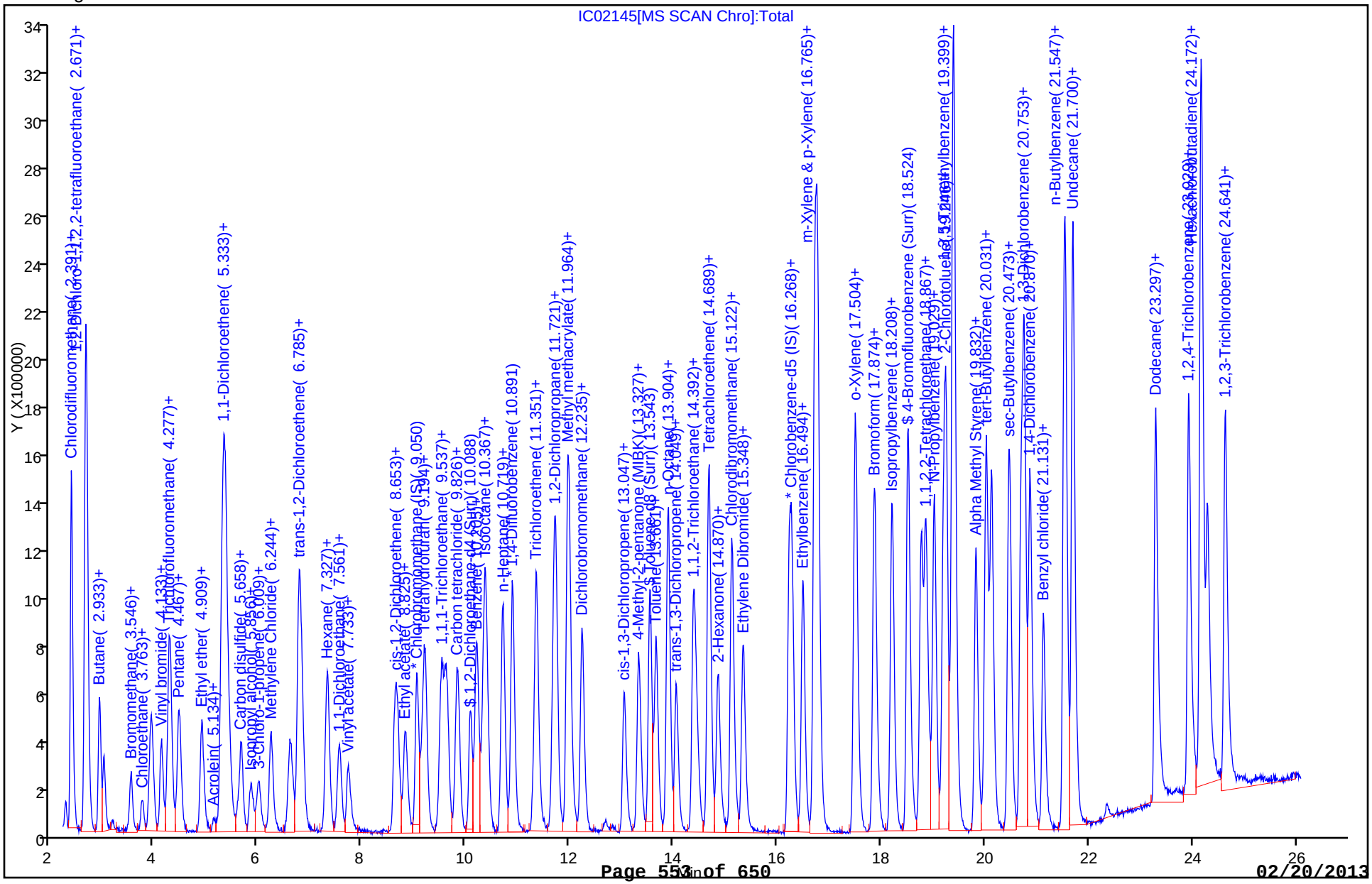
QC Flag Legend

Review Flags
M - Manually Integrated

Report Date: 14-Feb-2013 14:21:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02145.D		
Injection Date:	14-Feb-2013 12:44:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	7
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



Report Date: 14-Feb-2013 14:21:28 Chrom Revision: 2.0 22-Oct-2012 16:30:48

Manual Integration/User Assign Peak Report

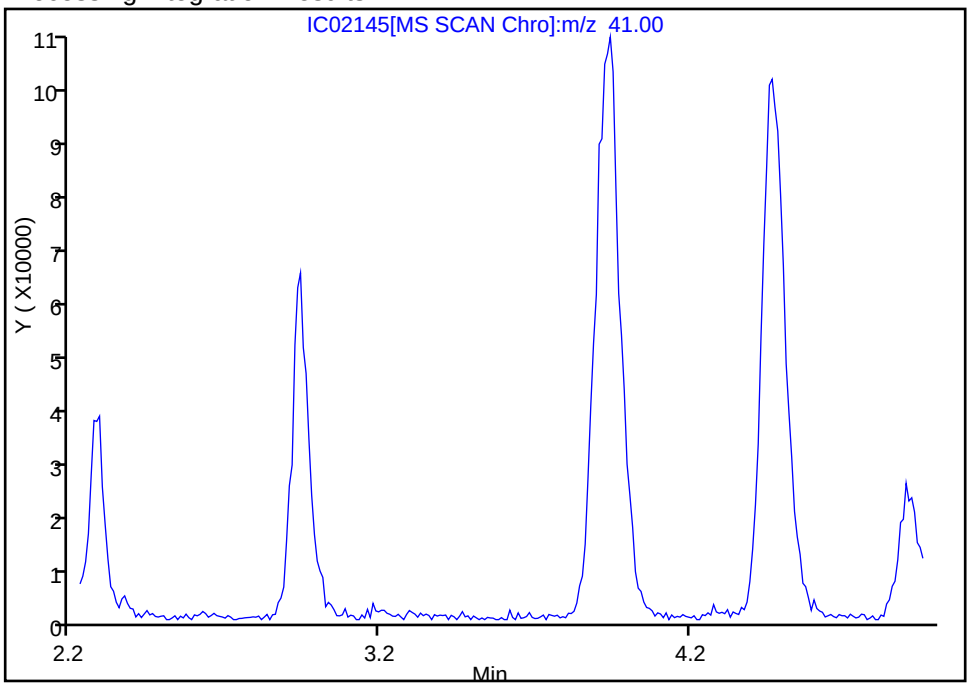
TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02145.D		
Injection Date:	14-Feb-2013 12:44:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	7
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	

9 Propene, Signal: 1, m/z: 41.0 Type: quant, RT: 2.29

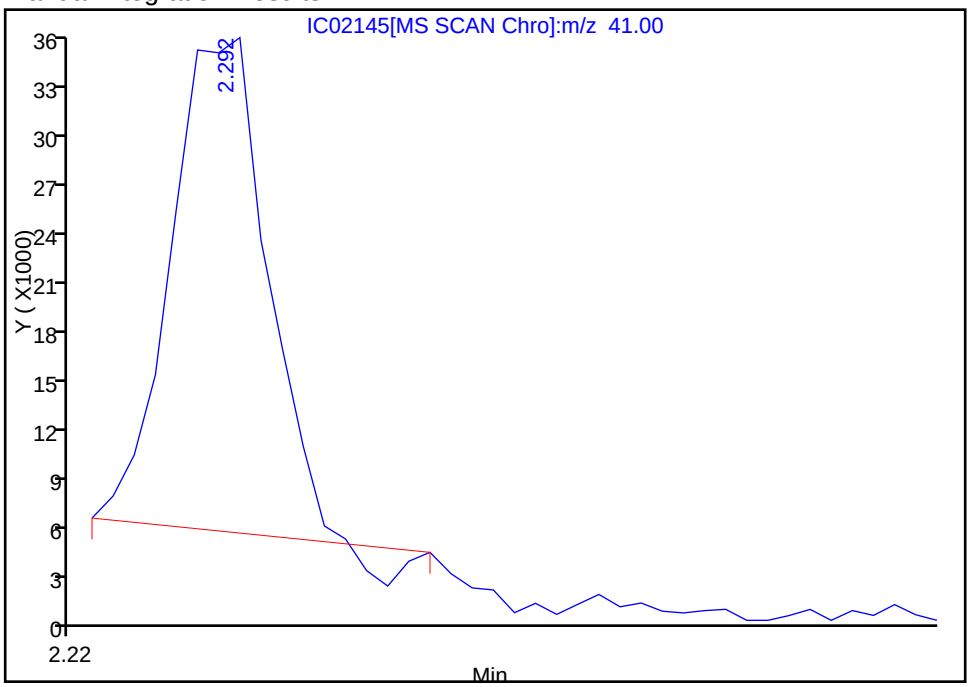
Processing Integration Results

Not Detected
Expected RT: 2.29



Manual Integration Results

RT: 2.29
Response: 82742
Amount: 25.426368



Reviewer: kammererd, 14-Feb-2013 13:27:15
Audit Action: Manually Integrated
Audit Reason: Not Integrated

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02146.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 13:25:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	6
Sample ID:	IC		
Misc. Info.:	340-0002766-008		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	4057	Lims Sample ID:	8
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 14:25:57	Calib Date:	14-Feb-2013 13:25:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02146.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: kammererd Date: 14-Feb-2013 14:25:57

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.335	2.292	0.043	95	405735	118.5	
10 Dichlorodifluoromethane	85	2.434	2.391	0.043	99	3628243	92.2	
11 Chlorodifluoromethane	51	2.443	2.400	0.043	95	1781741	97.6	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.723	2.671	0.052	89	3762999	91.1	
14 Chloromethane	50	2.750	2.698	0.052	99	1112245	92.8	
15 Vinyl chloride	62	2.975	2.933	0.042	99	792197	88.5	
16 Butane	43	2.984	2.933	0.051	94	1165464	94.0	
17 Butadiene	39	3.066	3.023	0.043	92	667476	92.6	
18 Bromomethane	94	3.589	3.546	0.043	99	635689	87.4	
20 Chloroethane	64	3.796	3.754	0.042	98	376741	97.1	
22 Vinyl bromide	106	4.166	4.133	0.033	91	1288235	83.3	
23 Trichlorofluoromethane	101	4.329	4.286	0.043	97	3646950	89.0	
25 Pentane	43	4.518	4.467	0.051	93	1621802	89.0	
28 Ethyl ether	59	4.951	4.909	0.042	93	724043	103.3	
29 Acrolein	56	5.177	5.143	0.034	86	174059	71.5	
30 1,1-Dichloroethene	61	5.330	5.288	0.042	99	1866815	90.4	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.393	5.360	0.033	94	4065710	92.4	
33 Acetone	58	5.475	5.459	0.016	77	341206	98.8	
34 Carbon disulfide	76	5.709	5.667	0.042	98	2225239	96.2	
37 Isopropyl alcohol	45	5.872	5.856	0.016	96	1420512	118.2	
38 3-Chloro-1-propene	41	6.034	6.009	0.025	89	1129440	117.4	
39 Methylene Chloride	49	6.269	6.244	0.025	89	1119340	110.6	
42 Acrylonitrile	53	6.765	6.758	0.007	96	486007	100.4	
41 trans-1,2-Dichloroethene	61	6.810	6.767	0.043	93	1809055	92.2	
43 Methyl tert-butyl ether	73	6.837	6.822	0.015	92	3226978	98.5	
45 Hexane	41	7.351	7.327	0.024	90	1475211	91.0	
A 44 C6 Range	1	7.346	7.227 -	7.465	0	7855023	84.2	
46 1,1-Dichloroethane	63	7.577	7.561	0.016	99	2026563	97.1	

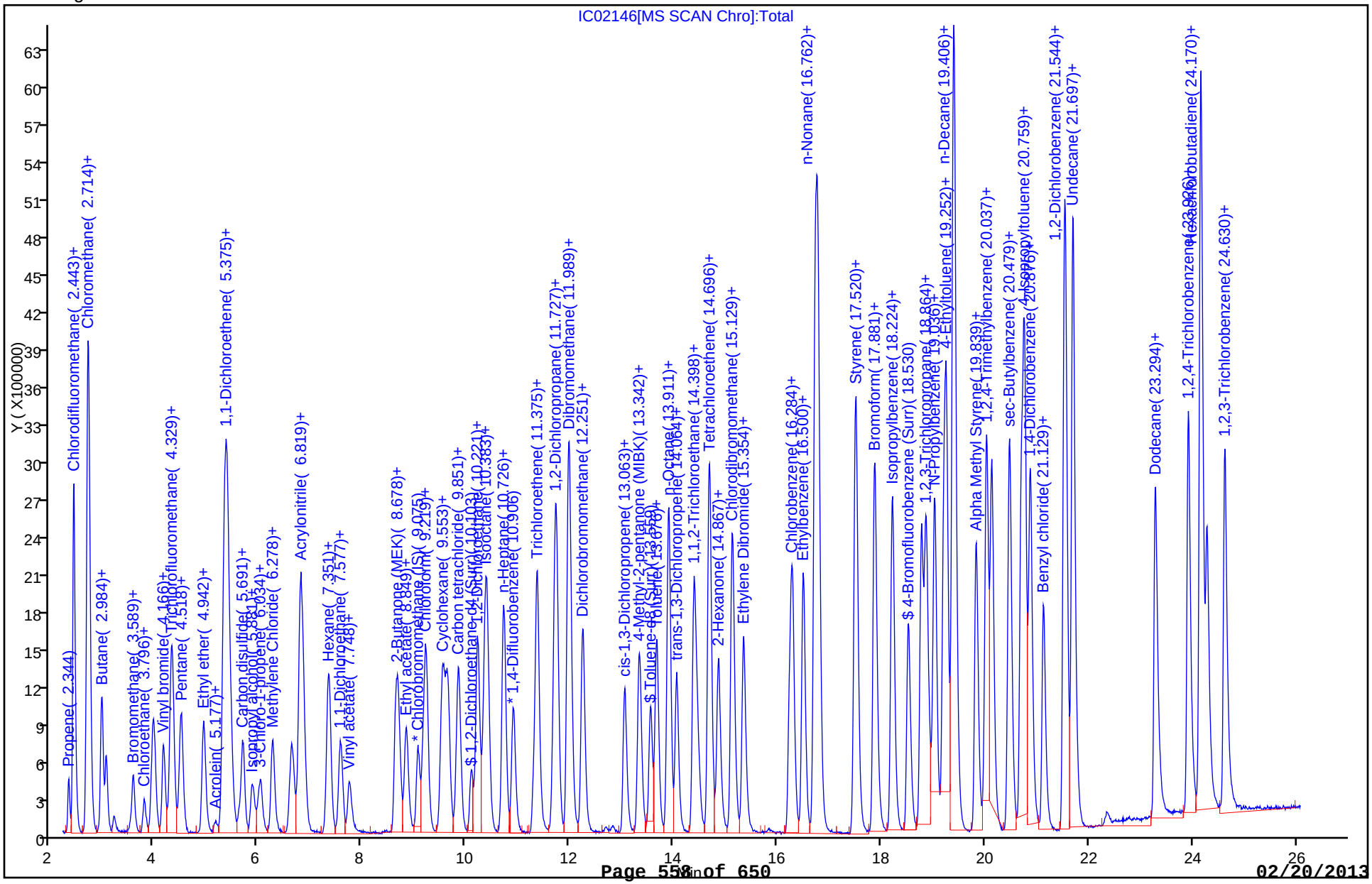
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.748	7.733	0.015	99	1834735	79.9	
52 cis-1,2-Dichloroethene	96	8.642	8.635	0.007	95	1197857	104.1	
53 2-Butanone (MEK)	72	8.705	8.698	0.007	97	435812	108.8	
54 Ethyl acetate	43	8.849	8.825	0.024	99	2692117	90.2	
* 56 Chlorobromomethane (IS)	130	9.066	9.059	0.007	85	726776	50.0	
58 Tetrahydrofuran	42	9.174	9.158	0.016	95	1030666	103.4	
59 Chloroform	83	9.237	9.213	0.024	98	2564133	93.3	
60 1,1,1-Trichloroethane	97	9.544	9.537	0.007	88	2584840	91.9	
62 Cyclohexane	84	9.643	9.619	0.024	93	1350545	99.8	
64 Carbon tetrachloride	117	9.860	9.826	0.034	98	2520397	109.3	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.103	10.088	0.015	0	826788	49.1	
67 Benzene	78	10.221	10.196	0.025	96	2389447	100.5	
68 1,2-Dichloroethane	62	10.239	10.223	0.016	89	1397328	106.6	
70 Isooctane	57	10.392	10.367	0.025	97	6195473	100.4	
71 n-Heptane	43	10.735	10.710	0.025	94	2286188	110.8	
* 73 1,4-Difluorobenzene	114	10.915	10.900	0.015	90	2308089	50.0	
74 Trichloroethene	130	11.366	11.360	0.006	96	1913425	113.5	
75 1,2-Dichloropropane	76	11.754	11.730	0.024	89	594348	108.9	
76 Dibromomethane	174	11.971	11.955	0.016	85	2581839	92.9	
77 Methyl methacrylate	69	11.998	11.982	0.016	91	1221836	108.8	
79 1,4-Dioxane	88	12.016	12.001	0.015	91	724706	109.3	
80 Dichlorobromomethane	85	12.251	12.244	0.007	94	2004718	114.1	
81 cis-1,3-Dichloropropene	75	13.063	13.056	0.007	95	1836751	109.2	
83 4-Methyl-2-pentanone (MIBK)	58	13.351	13.318	0.033	98	1107047	118.6	
$ 85 Toluene-d8 (Surr)	100	13.559	13.543	0.016	96	1244911	51.1	
A 86 Toluene Range	1	13.575	13.500	-13.650	0	1185076	91.4	
87 Toluene	91	13.676	13.661	0.015	92	3234419	117.5	
88 n-Octane	43	13.902	13.904	-0.002	94	3470752	110.4	
89 trans-1,3-Dichloropropene	75	14.055	14.049	0.006	96	1868256	120.7	
91 1,1,2-Trichloroethane	97	14.398	14.383	0.016	93	1619227	108.7	
A 95 TVOC as Toluene	1	14.650	2.517 -	26.685	0	843716330	65049	
96 Tetrachloroethene	166	14.687	14.689	-0.002	97	3126433	102.2	
A 97 PCE Range	1	14.705	14.599	-14.810	0	16114389	93.0	
98 2-Hexanone	58	14.876	14.852	0.024	97	1389350	125.4	
99 Chlorodibromomethane	129	15.138	15.131	0.007	95	3919209	129.7	
101 Ethylene Dibromide	107	15.354	15.339	0.015	99	3359336	116.0	
* 102 Chlorobenzene-d5 (IS)	117	16.248	16.232	0.016	65	1832535	50.0	
103 Chlorobenzene	112	16.302	16.286	0.016	90	2860155	116.0	
105 Ethylbenzene	91	16.500	16.494	0.006	99	4593164	117.2	
107 m-Xylene & p-Xylene	91	16.735	16.728	0.007	0	7660451	232.7	
109 n-Nonane	43	16.789	16.783	0.006	90	3825973	109.5	
S 110 Xylenes, Total	106				0		354.0	
112 o-Xylene	106	17.502	17.495	0.007	89	1815791	121.3	
113 Styrene	104	17.538	17.522	0.016	91	2679435	128.3	
114 Bromoform	173	17.872	17.874	-0.002	97	4857707	126.2	
115 Isopropylbenzene	120	18.224	18.217	0.007	97	1628329	104.5	
$ 117 4-Bromofluorobenzene (Surr)	95	18.539	18.515	0.024	92	1979641	48.7	
119 1,1,2,2-Tetrachloroethane	83	18.783	18.777	0.006	94	3985717	124.1	
121 1,2,3-Trichloropropane	110	18.864	18.867	-0.003	90	1189601	100.2	
122 N-Propylbenzene	91	19.036	19.029	0.007	98	6487376	111.4	
123 2-Chlorotoluene	126	19.216	19.210	0.006	95	1494283	117.9	
124 4-Ethyltoluene	120	19.261	19.255	0.006	91	1487932	110.0	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
125 1,3,5-Trimethylbenzene	120	19.388	19.390	-0.002	90	2693107	116.6	
126 n-Decane	57	19.415	19.399	0.016	90	4593010	113.9	
127 Alpha Methyl Styrene	118	19.839	19.823	0.016	83	2267704	123.4	
128 tert-Butylbenzene	91	20.037	20.031	0.006	90	4214470	111.4	
129 1,2,4-Trimethylbenzene	120	20.136	20.130	0.006	68	2368966	114.9	
130 sec-Butylbenzene	105	20.479	20.473	0.006	93	7454107	103.4	
131 1,3-Dichlorobenzene	146	20.705	20.707	-0.002	95	3664140	113.3	
132 4-Isopropyltoluene	119	20.768	20.762	0.006	92	6322154	104.4	
133 1,4-Dichlorobenzene	146	20.885	20.879	0.006	93	3760106	109.5	
135 Benzyl chloride	91	21.129	21.131	-0.002	95	4028084	128.6	
136 n-Butylbenzene	92	21.526	21.528	-0.002	98	3180308	115.7	
137 1,2-Dichlorobenzene	146	21.562	21.565	-0.003	95	3506689	112.4	
138 Undecane	57	21.706	21.700	0.006	95	4961555	109.2	
140 Dodecane	57	23.294	23.297	-0.003	95	2898705	100.4	
142 1,2,4-Trichlorobenzene	180	23.926	23.938	-0.012	95	3451575	111.7	
143 Hexachlorobutadiene	225	24.170	24.172	-0.002	96	4516716	122.7	
145 Naphthalene	128	24.287	24.298	-0.011	99	4571375	126.4	
146 1,2,3-Trichlorobenzene	180	24.630	24.641	-0.011	96	3195950	124.5	

Report Date: 14-Feb-2013 14:25:57 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02146.D		
Injection Date:	14-Feb-2013 13:25:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	8
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02147.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 14:06:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	7
Sample ID:	IC		
Misc. Info.:	340-0002766-009		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	4057	Lims Sample ID:	9
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 14:43:05	Calib Date:	14-Feb-2013 14:06:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02147.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: kammererd Date: 14-Feb-2013 14:43:05

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.349	2.292	0.057	95	815500	223.2	
10 Dichlorodifluoromethane	85	2.448	2.391	0.057	98	6914968	168.4	
11 Chlorodifluoromethane	51	2.457	2.400	0.057	95	3449390	180.7	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.728	2.671	0.057	90	7134960	165.9	
14 Chloromethane	50	2.755	2.698	0.057	100	2028386	162.9	
15 Vinyl chloride	62	2.980	2.933	0.047	99	1566700	167.8	
16 Butane	43	2.998	2.933	0.065	95	2302982	178.2	
17 Butadiene	39	3.080	3.023	0.057	92	1316453	175.4	
18 Bromomethane	94	3.603	3.546	0.057	100	1734568	219.1	
20 Chloroethane	64	3.820	3.754	0.066	99	860645	206.1	
22 Vinyl bromide	106	4.180	4.133	0.047	97	2654990	162.6	
23 Trichlorofluoromethane	101	4.343	4.286	0.057	97	6918320	162.5	
25 Pentane	43	4.514	4.467	0.047	93	3306539	173.1	
28 Ethyl ether	59	4.956	4.909	0.047	91	1451922	194.3	
29 Acrolein	56	5.182	5.143	0.039	93	385566	153.7	
30 1,1-Dichloroethene	61	5.326	5.288	0.038	98	3726875	172.4	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.380	5.360	0.020	94	7824120	170.1	
33 Acetone	58	5.507	5.459	0.048	80	725493	196.8	
34 Carbon disulfide	76	5.705	5.667	0.038	98	4529418	185.1	
37 Isopropyl alcohol	45	5.949	5.856	0.093	91	2996804	231.8	
38 3-Chloro-1-propene	41	6.030	6.009	0.021	85	2534135	240.2	
39 Methylene Chloride	49	6.283	6.244	0.039	89	2258485	223.6	
42 Acrylonitrile	53	6.770	6.758	0.012	90	1047006	201.6	
41 trans-1,2-Dichloroethene	61	6.806	6.767	0.039	94	3576795	173.8	
43 Methyl tert-butyl ether	73	6.878	6.822	0.056	91	6173732	180.5	
45 Hexane	41	7.356	7.327	0.029	90	2875927	170.5	
A 44 C6 Range	1	7.346	7.227 -	7.465	0	15173829	157.3	
46 1,1-Dichloroethane	63	7.582	7.561	0.021	99	3953319	179.9	

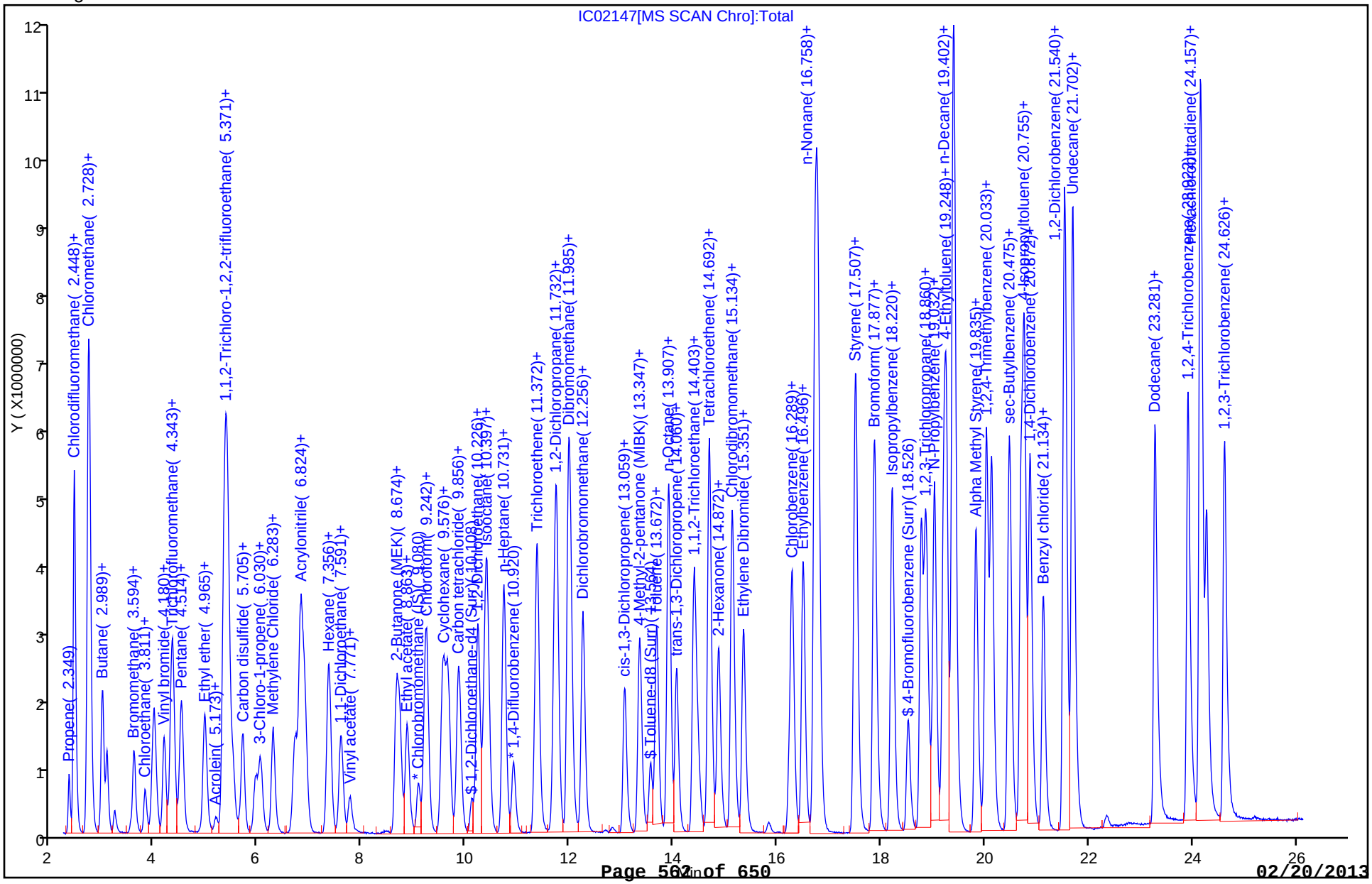
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.771	7.733	0.038	99	2371021	106.4	
52 cis-1,2-Dichloroethene	96	8.656	8.635	0.021	96	2372839	195.1	
53 2-Butanone (MEK)	72	8.737	8.698	0.039	99	875609	205.7	
54 Ethyl acetate	43	8.863	8.825	0.038	98	5180041	168.4	
* 56 Chlorobromomethane (IS)	130	9.080	9.059	0.021	84	778387	50.0	
58 Tetrahydrofuran	42	9.206	9.158	0.048	92	1982980	189.8	
59 Chloroform	83	9.242	9.213	0.029	98	4889133	170.2	
60 1,1,1-Trichloroethane	97	9.558	9.537	0.021	92	4968361	169.2	
62 Cyclohexane	84	9.657	9.619	0.038	93	2608885	184.1	
64 Carbon tetrachloride	117	9.865	9.826	0.039	98	4678967	192.8	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.108	10.088	0.020	0	843634	47.3	
67 Benzene	78	10.226	10.196	0.030	96	4732278	200.9	
68 1,2-Dichloroethane	62	10.244	10.223	0.021	94	2751445	211.0	
70 Isooctane	57	10.406	10.367	0.039	96	12124660	197.1	
71 n-Heptane	43	10.731	10.710	0.021	94	4613251	222.8	
* 73 1,4-Difluorobenzene	114	10.920	10.900	0.020	88	2307567	50.0	
74 Trichloroethene	130	11.372	11.360	0.012	95	3781247	223.4	
75 1,2-Dichloropropane	76	11.769	11.730	0.038	86	1143033	210.5	
76 Dibromomethane	174	11.976	11.955	0.021	86	5011003	184.7	
77 Methyl methacrylate	69	12.003	11.982	0.021	92	2418543	214.9	
79 1,4-Dioxane	88	12.030	12.001	0.029	94	1329642	203.3	
80 Dichlorobromomethane	85	12.256	12.244	0.012	94	3920426	222.5	
81 cis-1,3-Dichloropropene	75	13.059	13.056	0.003	95	3356320	199.7	
83 4-Methyl-2-pentanone (MIBK)	58	13.347	13.318	0.029	98	2194215	232.2	
$ 85 Toluene-d8 (Surr)	100	13.555	13.543	0.012	97	1251450	51.2	
87 Toluene	91	13.672	13.661	0.011	91	6321429	227.9	
88 n-Octane	43	13.907	13.904	0.003	93	6933444	216.6	
89 trans-1,3-Dichloropropene	75	14.060	14.049	0.011	96	3549340	225.0	
91 1,1,2-Trichloroethane	97	14.403	14.383	0.021	93	3134726	209.0	
A 95 TVOC as Toluene	1	14.653	2.620 -	26.685	0	1624426886	125268	
96 Tetrachloroethene	166	14.692	14.689	0.003	97	6001544	194.2	
A 97 PCE Range	1	14.705	14.599 -	14.810	0	29485309	172.2	
98 2-Hexanone	58	14.872	14.852	0.020	97	2756624	241.0	
99 Chlorodibromomethane	129	15.134	15.131	0.003	96	7656537	244.8	
101 Ethylene Dibromide	107	15.351	15.339	0.011	98	6503122	220.4	
* 102 Chlorobenzene-d5 (IS)	117	16.235	16.232	0.003	85	1860979	50.0	
103 Chlorobenzene	112	16.289	16.286	0.003	92	5659692	225.1	
105 Ethylbenzene	91	16.496	16.494	0.002	99	8876302	222.3	
107 m-Xylene & p-Xylene	91	16.722	16.728	-0.006	0	14414087	431.3	
109 n-Nonane	43	16.785	16.783	0.002	89	7371958	206.7	
S 110 Xylenes, Total	106				0		660.3	
112 o-Xylene	106	17.498	17.495	0.003	87	3505640	229.1	
113 Styrene	104	17.525	17.522	0.003	86	5191223	240.8	
114 Bromoform	173	17.877	17.874	0.003	97	9500244	238.1	
115 Isopropylbenzene	120	18.220	18.217	0.003	97	3116814	197.4	
$ 117 4-Bromofluorobenzene (Surr)	95	18.526	18.515	0.011	93	1907173	46.7	
119 1,1,2,2-Tetrachloroethane	83	18.779	18.777	0.002	94	7622044	231.6	
121 1,2,3-Trichloropropane	110	18.860	18.867	-0.007	93	2240859	188.1	
122 N-Propylbenzene	91	19.032	19.029	0.003	98	12068116	203.4	
123 2-Chlorotoluene	126	19.212	19.210	0.002	97	2834285	219.3	
124 4-Ethyltoluene	120	19.266	19.255	0.011	91	3001005	218.1	
125 1,3,5-Trimethylbenzene	120	19.384	19.390	-0.006	90	4864533	209.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
126 n-Decane	57	19.411	19.399	0.012	92	8554862	210.4	
127 Alpha Methyl Styrene	118	19.835	19.823	0.012	84	4334995	230.2	
128 tert-Butylbenzene	91	20.033	20.031	0.002	92	7813045	205.4	
129 1,2,4-Trimethylbenzene	120	20.133	20.130	0.003	67	4587815	218.5	
130 sec-Butylbenzene	105	20.475	20.473	0.002	93	13660238	188.7	
131 1,3-Dichlorobenzene	146	20.701	20.707	-0.006	95	7051297	215.5	
132 4-Isopropyltoluene	119	20.764	20.762	0.002	89	11693166	191.7	
133 1,4-Dichlorobenzene	146	20.881	20.879	0.002	93	7212951	208.6	
135 Benzyl chloride	91	21.134	21.131	0.003	95	7661214	237.1	
136 n-Butylbenzene	92	21.522	21.528	-0.006	98	5925471	212.2	
137 1,2-Dichlorobenzene	146	21.558	21.565	-0.007	94	6389471	204.1	
138 Undecane	57	21.702	21.700	0.002	95	9250401	200.5	
140 Dodecane	57	23.281	23.297	-0.016	94	6250954	210.8	
142 1,2,4-Trichlorobenzene	180	23.922	23.938	-0.016	95	6759370	216.3	
143 Hexachlorobutadiene	225	24.166	24.172	-0.006	95	8495168	226.0	
145 Naphthalene	128	24.283	24.298	-0.015	98	8893822	238.2	
146 1,2,3-Trichlorobenzene	180	24.626	24.641	-0.015	96	6054104	229.7	

Report Date: 14-Feb-2013 14:43:05 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02147.D		
Injection Date:	14-Feb-2013 14:06:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	9
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Lims ID:	IC	Client ID:	
Inject. Date:	14-Feb-2013 14:46:30	Dil. Factor:	1.0000
Sample Type:	IC	Calib Level:	8
Sample ID:	IC		
Misc. Info.:	340-0002766-010		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	4
Lims Batch ID:	4057	Lims Sample ID:	10
Sublist:	chrom-TO15_MSB*sub32		
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 16:01:10	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK014		

First Level Reviewer: yabutl Date: 14-Feb-2013 15:34:43

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.369	2.292	0.077	95	970401	258.7	
10 Dichlorodifluoromethane	85	2.459	2.391	0.068	99	8086104	194.8	
11 Chlorodifluoromethane	51	2.468	2.400	0.068	94	4139355	213.7	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.739	2.671	0.068	90	8450661	194.5	
14 Chloromethane	50	2.775	2.698	0.077	99	2573176	203.4	
15 Vinyl chloride	62	3.001	2.933	0.068	98	1866985	197.5	
16 Butane	43	3.010	2.933	0.077	94	2771364	211.8	
17 Butadiene	39	3.091	3.023	0.068	95	1635626	214.7	
18 Bromomethane	94	3.614	3.546	0.068	98	1786872	220.1	
20 Chloroethane	64	3.822	3.754	0.068	99	1036529	239.5	
22 Vinyl bromide	106	4.201	4.133	0.068	97	3193477	191.3	
23 Trichlorofluoromethane	101	4.354	4.286	0.068	97	8189126	190.7	
25 Pentane	43	4.535	4.467	0.068	95	4020177	206.9	
28 Ethyl ether	59	4.968	4.909	0.059	91	1795695	232.7	
29 Acrolein	56	5.193	5.143	0.050	90	537758	210.2	
30 1,1-Dichloroethene	61	5.347	5.288	0.059	98	4513846	205.3	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.410	5.360	0.050	95	9541144	204.2	
33 Acetone	58	5.509	5.459	0.050	74	855922	226.2	
34 Carbon disulfide	76	5.717	5.667	0.050	98	5480167	218.7	
37 Isopropyl alcohol	45	5.942	5.856	0.086	98	3569379	266.9	
38 3-Chloro-1-propene	41	6.050	6.009	0.041	90	2660183	246.8	
39 Methylene Chloride	49	6.294	6.244	0.050	88	2636912	257.1	
42 Acrylonitrile	53	6.790	6.758	0.032	90	1267739	236.6	
41 trans-1,2-Dichloroethene	61	6.826	6.767	0.059	95	4224674	202.3	
43 Methyl tert-butyl ether	73	6.890	6.822	0.068	92	7217296	208.7	
45 Hexane	41	7.377	7.327	0.050	89	3494295	204.7	
A 44 C6 Range	1	7.346	7.227 -	7.465	0	18394574	189.2	
46 1,1-Dichloroethane	63	7.611	7.561	0.050	100	4741231	211.4	

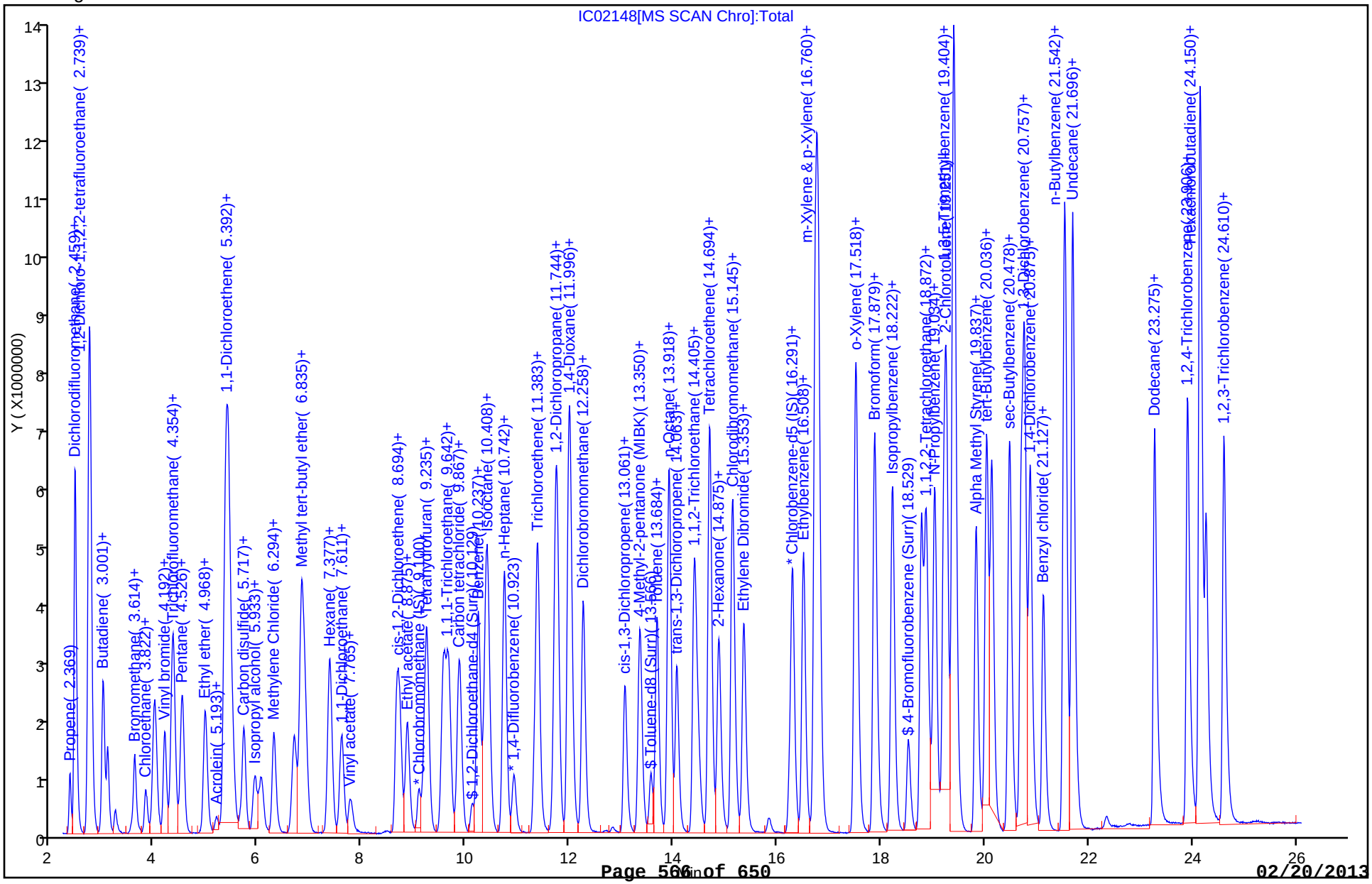
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
48 Vinyl acetate	43	7.774	7.733	0.041	99	2739060	106.9	
52 cis-1,2-Dichloroethene	96	8.667	8.635	0.032	95	2797925	225.4	
53 2-Butanone (MEK)	72	8.730	8.698	0.032	99	1058689	242.1	
54 Ethyl acetate	43	8.875	8.825	0.050	99	6004707	195.4	
* 56 Chlorobromomethane (IS)	130	9.091	9.059	0.032	84	811614	50.0	
58 Tetrahydrofuran	42	9.199	9.158	0.041	94	2500618	234.2	
59 Chloroform	83	9.245	9.213	0.031	98	5903948	202.5	
60 1,1,1-Trichloroethane	97	9.569	9.537	0.032	88	6070651	203.6	
62 Cyclohexane	84	9.669	9.619	0.050	95	3192471	221.4	
64 Carbon tetrachloride	117	9.867	9.826	0.041	98	5817901	234.3	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.129	10.088	0.041	0	856183	46.5	
67 Benzene	78	10.228	10.196	0.032	98	5790220	250.9	
68 1,2-Dichloroethane	62	10.255	10.223	0.032	95	3369011	262.8	
70 Isooctane	57	10.408	10.367	0.041	96	14751016	243.7	
71 n-Heptane	43	10.733	10.710	0.023	94	5767125	280.9	
* 73 1,4-Difluorobenzene	114	10.923	10.900	0.023	85	2278178	50.0	
74 Trichloroethene	130	11.383	11.360	0.023	95	4592155	274.6	
75 1,2-Dichloropropane	76	11.771	11.730	0.041	86	1383272	259.4	
76 Dibromomethane	174	11.987	11.955	0.032	86	6120419	233.0	
77 Methyl methacrylate	69	12.005	11.982	0.023	93	2948826	265.3	
79 1,4-Dioxane	88	12.023	12.001	0.022	93	1690616	263.3	
80 Dichlorobromomethane	85	12.258	12.244	0.014	96	4779773	274.5	
81 cis-1,3-Dichloropropene	75	13.070	13.056	0.014	96	3990915	241.6	
83 4-Methyl-2-pentanone (MIBK)	58	13.359	13.318	0.041	98	2713827	288.1	
$ 85 Toluene-d8 (Surr)	100	13.557	13.543	0.014	88	1233593	51.0	
A 86 Toluene Range	1	13.575	13.500 -	13.650	0	1923452	166.9	
87 Toluene	91	13.684	13.661	0.023	91	7719423	280.7	
88 n-Octane	43	13.918	13.904	0.014	93	8362676	267.3	
89 trans-1,3-Dichloropropene	75	14.072	14.049	0.023	96	4143638	269.5	
91 1,1,2-Trichloroethane	97	14.405	14.383	0.023	93	3827853	262.7	
A 95 TVOC as Toluene	1	14.663	2.641 -	26.685	0	1903365491	165147	
96 Tetrachloroethene	166	14.694	14.689	0.005	97	7393595	245.4	
A 97 PCE Range	1	14.705	14.599 -	14.810	0	38755135	234.0	
98 2-Hexanone	58	14.875	14.852	0.023	98	3433084	302.7	
99 Chlorodibromomethane	129	15.145	15.131	0.014	95	9292537	300.0	
101 Ethylene Dibromide	107	15.353	15.339	0.014	99	7799517	270.4	
* 102 Chlorobenzene-d5 (IS)	117	16.246	16.232	0.014	64	1819101	50.0	
103 Chlorobenzene	112	16.300	16.286	0.014	91	6833616	277.7	
105 Ethylbenzene	91	16.508	16.494	0.014	99	10636172	272.5	
107 m-Xylene & p-Xylene	91	16.733	16.728	0.005	0	16968123	521.9	
109 n-Nonane	43	16.796	16.783	0.013	91	8842363	253.1	
S 110 Xylenes, Total	106				0		799.5	
112 o-Xylene	106	17.500	17.495	0.005	90	4159531	277.7	
113 Styrene	104	17.527	17.522	0.005	90	6196831	291.6	
114 Bromoform	173	17.879	17.874	0.005	96	11264928	285.9	
115 Isopropylbenzene	120	18.231	18.217	0.014	97	3664807	239.2	
$ 117 4-Bromofluorobenzene (Surr)	95	18.529	18.515	0.014	92	1818496	46.1	
119 1,1,2,2-Tetrachloroethane	83	18.781	18.777	0.004	95	8955512	278.0	
121 1,2,3-Trichloropropane	110	18.881	18.867	0.014	85	2622169	228.5	
122 N-Propylbenzene	91	19.034	19.029	0.005	98	14152722	244.8	
123 2-Chlorotoluene	126	19.215	19.210	0.005	96	3282212	260.8	
124 4-Ethyltoluene	120	19.260	19.255	0.005	88	3642573	270.7	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
125 1,3,5-Trimethylbenzene	120	19.386	19.390	-0.004	90	5970852	264.5	
126 n-Decane	57	19.422	19.399	0.023	89	9890872	252.0	
127 Alpha Methyl Styrene	118	19.837	19.823	0.014	84	5093172	276.5	
128 tert-Butylbenzene	91	20.036	20.031	0.005	91	9020090	246.2	
129 1,2,4-Trimethylbenzene	120	20.135	20.130	0.005	70	5096991	251.3	
130 sec-Butylbenzene	105	20.478	20.473	0.005	93	15792153	226.6	
131 1,3-Dichlorobenzene	146	20.703	20.707	-0.004	94	7951709	252.1	
132 4-Isopropyltoluene	119	20.766	20.762	0.004	91	13217284	225.3	
133 1,4-Dichlorobenzene	146	20.884	20.879	0.005	92	8164324	245.5	
135 Benzyl chloride	91	21.127	21.131	-0.004	95	8859125	279.7	
136 n-Butylbenzene	92	21.524	21.528	-0.004	97	6766639	250.3	
137 1,2-Dichlorobenzene	146	21.560	21.565	-0.005	94	7290507	242.7	
138 Undecane	57	21.696	21.700	-0.004	95	10335398	231.9	
140 Dodecane	57	23.275	23.297	-0.022	94	6987753	242.3	
142 1,2,4-Trichlorobenzene	180	23.915	23.938	-0.023	95	7851736	259.9	
143 Hexachlorobutadiene	225	24.150	24.172	-0.022	96	9706363	265.6	
145 Naphthalene	128	24.276	24.298	-0.022	98	10106609	276.6	
146 1,2,3-Trichlorobenzene	180	24.619	24.641	-0.022	96	7072155	274.3	

Report Date: 14-Feb-2013 16:01:11 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Injection Date:	14-Feb-2013 14:46:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	10
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-4057/14 Calibration Date: 02/14/2013 17:42

Instrument ID: MSB Calib Start Date: 02/14/2013 10:05

GC Column: See SOP ID: Calib End Date: 02/14/2013 14:46

Lab File ID: LC02143.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.2311	0.2885		68.0	54.5	24.8	30.0
Dichlorodifluoromethane	Ave	2.557	2.776		54.3	50.0	8.5	30.0
Chlorodifluoromethane	Ave	1.193	1.350		56.6	50.0	13.1	30.0
1,2-Dichloro-1,1,2,2-tetrafl uoroethane	Ave	2.677	2.878		53.8	50.0	7.5	30.0
Chloromethane	Ave	0.7792	0.8620		55.3	50.0	10.6	30.0
n-Butane	Ave	0.8062	0.8601		53.3	50.0	6.7	30.0
Vinyl chloride	Ave	0.5823	0.6193		53.2	50.0	6.4	30.0
1,3-Butadiene	Ave	0.4694	0.5285		56.3	50.0	12.6	30.0
Bromomethane	Ave	0.5001	0.5204		52.0	50.0	4.1	30.0
Chloroethane	Ave	0.2666	0.3002		56.3	50.0	12.6	30.0
Vinyl bromide	Ave	1.028	0.9293		45.2	50.0	-9.6	30.0
Trichlorofluoromethane	Ave	2.645	2.866		54.2	50.0	8.3	30.0
n-Pentane	Ave	1.197	1.272		53.1	50.0	6.3	30.0
Diethyl ether	Ave	0.4754	0.5249		55.2	50.0	10.4	30.0
Acrolein	Ave	0.1576	0.1643		48.0	46.0	4.3	30.0
1,1-Dichloroethene	Ave	1.354	1.481		54.7	50.0	9.4	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	2.879	3.254		53.1	47.0	13.0	30.0
Acetone	Ave	0.2331	0.2734		58.6	50.0	17.3	30.0
Carbon disulfide	Ave	1.544	1.801		58.3	50.0	16.6	30.0
Allyl chloride	Ave	0.6640	0.8895		61.6	46.0	34.0*	30.0
Methylene chloride	Lin2		0.9268		59.7	50.0	19.5	30.0
Acrylonitrile	Ave	0.3301	0.3655		55.4	50.0	10.7	30.0
trans-1,2-Dichloroethene	Ave	1.287	1.434		55.7	50.0	11.4	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	2.130	2.300		54.0	50.0	7.9	30.0
n-Hexane	Ave	1.052	1.077		51.2	50.0	2.4	30.0
1,1-Dichloroethane	Ave	1.381	1.474		53.4	50.0	6.7	30.0
Vinyl acetate	Ave	1.579	0.8101		28.0	54.5	-48.7*	30.0
cis-1,2-Dichloroethene	Ave	0.7647	0.9002		58.9	50.0	17.7	30.0
2-Butanone (MEK)	Ave	0.2694	0.3345		62.1	50.0	24.1	30.0
Ethyl acetate	Ave	1.893	2.170		57.3	50.0	14.6	30.0
Tetrahydrofuran	Ave	0.6578	0.7713		58.6	50.0	17.3	30.0
Chloroform	Ave	1.796	1.949		54.3	50.0	8.5	30.0
1,1,1-Trichloroethane	Ave	1.837	1.775		48.3	50.0	-3.4	30.0
Cyclohexane	Ave	0.8883	0.9729		54.8	50.0	9.5	30.0
Carbon tetrachloride	Ave	1.530	1.767		57.8	50.0	15.5	30.0
Benzene	Ave	0.5065	0.5218		51.5	50.0	3.0	30.0
1,2-Dichloroethane	Ave	0.2813	0.2953		52.5	50.0	5.0	30.0
2,2,4-Trimethylpentane	Ave	1.328	1.358		51.1	50.0	2.2	30.0
n-Heptane	Ave	0.4506	0.5129		56.9	50.0	13.8	30.0
Trichloroethene	Ave	0.3671	0.4227		57.6	50.0	15.2	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-4057/14 Calibration Date: 02/14/2013 17:42

Instrument ID: MSB Calib Start Date: 02/14/2013 10:05

GC Column: See SOP ID: Calib End Date: 02/14/2013 14:46

Lab File ID: LC02143.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.1170	0.1304		55.7	50.0	11.4	30.0
Dibromomethane	Ave	0.5765	0.5552		48.2	50.0	-3.7	30.0
Methyl methacrylate	Ave	0.2439	0.2795		57.3	50.0	14.6	30.0
1,4-Dioxane	Ave	0.1409	0.1504		53.4	50.0	6.7	30.0
Bromodichloromethane	Ave	0.3822	0.4197		54.9	50.0	9.8	30.0
cis-1,3-Dichloropropene	Ave	0.3625	0.3215		47.0	53.0	-11.3	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.2067	0.2370		57.3	50.0	14.6	30.0
Toluene	Ave	0.6037	0.7162		59.3	50.0	18.6	30.0
n-Octane	Ave	0.8598	0.9495		55.2	50.0	10.4	30.0
trans-1,3-Dichloropropene	Ave	0.4226	0.3891		46.0	50.0	-7.9	30.0
1,1,2-Trichloroethane	Ave	0.4006	0.4422		55.2	50.0	10.4	30.0
Tetrachloroethene	Ave	0.8281	0.8649		52.2	50.0	4.4	30.0
2-Hexanone	Ave	0.3118	0.3763		60.3	50.0	20.7	30.0
Dibromochloromethane	Ave	0.8514	0.8631		58.3	57.5	1.4	30.0
1,2-Dibromoethane (EDB)	Ave	0.7928	0.9154		57.7	50.0	15.5	30.0
Chlorobenzene	Ave	0.6763	0.7414		58.6	53.5	9.6	30.0
Ethylbenzene	Ave	1.073	1.201		59.4	53.0	12.0	30.0
m,p-Xylene	Ave	0.8937	1.069		120	100	19.6	30.0
n-Nonane	Ave	0.9601	1.056		55.0	50.0	10.0	30.0
o-Xylene	Ave	0.4118	0.4564		59.9	54.0	10.8	30.0
Styrene	Ave	0.5841	0.6707		62.0	54.0	14.8	30.0
Bromoform	Ave	1.083	1.249		57.7	50.0	15.4	30.0
Isopropylbenzene	Ave	0.4211	0.4453		52.9	50.0	5.7	30.0
1,1,2,2-Tetrachloroethane	Ave	0.8855	1.012		61.7	54.0	14.3	30.0
1,2,3-Trichloropropane	Ave	0.3155	0.3268		51.8	50.0	3.6	30.0
n-Propylbenzene	Ave	1.589	1.747		55.0	50.0	9.9	30.0
2-Chlorotoluene	Ave	0.3460	0.3787		59.1	54.0	9.5	30.0
4-Ethyltoluene	Ave	0.3698	0.4072		55.1	50.0	10.1	30.0
1,3,5-Trimethylbenzene	Ave	0.6204	0.6755		57.7	53.0	8.9	30.0
alpha-Methylstyrene	Ave	0.5064	0.6138		60.6	50.0	21.2	30.0
tert-Butylbenzene	Ave	1.007	1.115		55.4	50.0	10.7	30.0
1,2,4-Trimethylbenzene	Ave	0.5576	0.6558		58.8	50.0	17.6	30.0
sec-Butylbenzene	Ave	1.916	1.997		52.1	50.0	4.3	30.0
1,3-Dichlorobenzene	Ave	0.8671	0.9038		57.3	55.0	4.2	30.0
4-Isopropyltoluene	Ave	1.613	1.668		51.7	50.0	3.4	30.0
1,4-Dichlorobenzene	Ave	0.9140	1.030		56.3	50.0	12.7	30.0
Benzyl chloride	Ave	0.8705	0.9627		60.8	55.0	10.6	30.0
n-Butylbenzene	Ave	0.7432	0.7845		52.8	50.0	5.6	30.0
1,2-Dichlorobenzene	Ave	0.8258	0.8587		56.2	54.0	4.0	30.0
1,2,4-Trichlorobenzene	Ave	0.8303	0.5280		31.8	50.0	-36.4*	30.0
Hexachlorobutadiene	Ave	1.004	0.4212		21.0	50.0	-58.1*	30.0

FORM VII TO-15 MOD

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Lab Sample ID: ICV 340-4057/14 Calibration Date: 02/14/2013 17:42

Instrument ID: MSB Calib Start Date: 02/14/2013 10:05

GC Column: See SOP ID: Calib End Date: 02/14/2013 14:46

Lab File ID: LC02143.D Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.004	0.9865		49.1	50.0	-1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.135	1.121		38.8	50.0	-1.3	30.0
Toluene-d8 (Surr)	Ave	0.5311	0.5455		52.1	50.0	2.7	30.0
4-Bromofluorobenzene (Surr)	Ave	1.085	1.080		50.3	50.0	-0.4	30.0

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\MSB\20130214-2766.b\LC02143.D
Lims ID: ICV Client ID:
Inject. Date: 14-Feb-2013 17:42:30 Dil. Factor: 1.0000
Sample Type: ICV
Sample ID: ICV
Misc. Info.: 340-0002766-014
Operator: AD Instrument ID: MSB
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 4057 Lims Sample ID: 14
Sublist:
Detector: MS SCAN

Method: \\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m
Method Label: MSB_TO14/ TO15 MOD SAMPLE REPORT
Last Update: 15-Feb-2013 10:01:36 Calib Date: 15-Feb-2013 06:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\MSB\20130214-2766.b\IC0214F.D
Limit Group: TO-15-TO-15_MOD_ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624MS Column Dia:
Process Host: XAWRK020

First Level Reviewer: almagroa Date: 15-Feb-2013 10:01:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.335	2.292	0.043	95	211883	68.0	
10 Dichlorodifluoromethane	85	2.425	2.391	0.034	100	1870363	54.3	
11 Chlorodifluoromethane	51	2.434	2.400	0.034	87	909770	56.6	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.705	2.671	0.033	90	1939484	53.8	
14 Chloromethane	50	2.732	2.698	0.034	99	580875	55.3	
15 Vinyl chloride	62	2.966	2.933	0.033	91	417339	53.2	
16 Butane	43	2.966	2.933	0.033	93	579580	53.3	
17 Butadiene	39	3.047	3.023	0.024	92	356143	56.3	
18 Bromomethane	94	3.571	3.546	0.025	98	350671	52.0	
20 Chloroethane	64	3.787	3.754	0.033	97	202267	56.3	
22 Vinyl bromide	106	4.148	4.133	0.015	95	626202	45.2	
23 Trichlorofluoromethane	101	4.320	4.286	0.034	98	1931187	54.2	
25 Pentane	43	4.482	4.467	0.015	92	857211	53.1	
28 Ethyl ether	59	4.924	4.909	0.015	93	353688	55.2	
29 Acrolein	56	5.159	5.143	0.016	79	101884	48.0	
30 1,1-Dichloroethene	61	5.303	5.288	0.015	98	997962	54.7	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.366	5.360	0.006	94	2061301	53.1	
33 Acetone	58	5.483	5.459	0.024	74	184204	58.6	
34 Carbon disulfide	76	5.691	5.667	0.024	99	1213481	58.3	
38 3-Chloro-1-propene	41	6.007	6.009	-0.002	87	551470	61.6	
39 Methylene Chloride	49	6.259	6.244	0.015	89	624522	59.7	
42 Acrylonitrile	53	6.765	6.758	0.007	63	246316	55.4	
41 trans-1,2-Dichloroethene	61	6.792	6.767	0.025	96	966104	55.7	
43 Methyl tert-butyl ether	73	6.837	6.822	0.015	92	1549715	54.0	
45 Hexane	41	7.324	7.327	-0.003	90	725889	51.2	
46 1,1-Dichloroethane	63	7.568	7.561	0.007	98	993370	53.4	
48 Vinyl acetate	43	7.748	7.733	0.015	98	595032	28.0	
52 cis-1,2-Dichloroethene	96	8.641	8.635	0.006	96	606611	58.9	

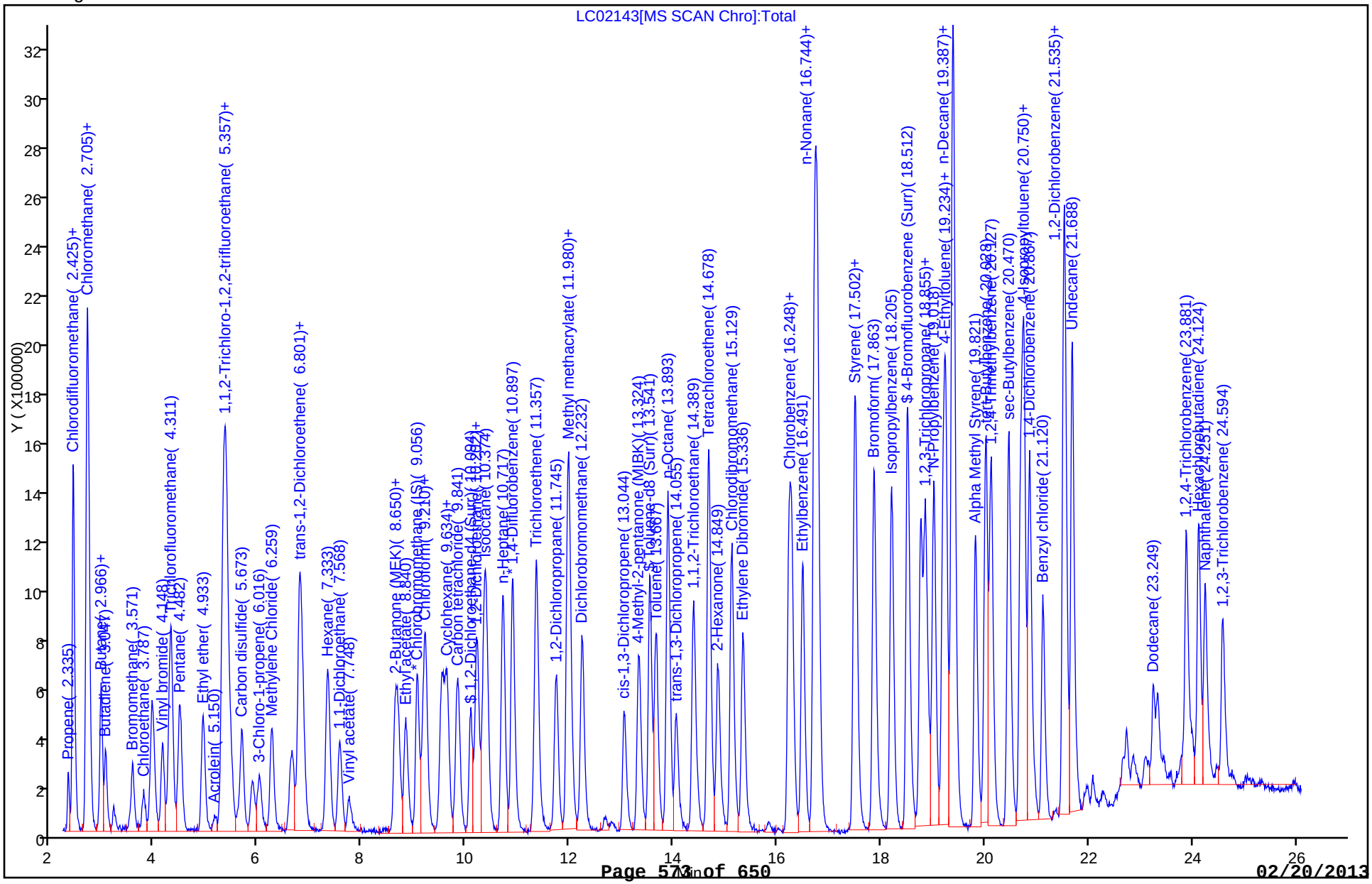
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
53 2-Butanone (MEK)	72	8.705	8.698	0.007	99	225398	62.1	
54 Ethyl acetate	43	8.840	8.825	0.015	97	1462235	57.3	
* 56 Chlorobromomethane (IS)	130	9.065	9.038	0.027	84	673872	50.0	
58 Tetrahydrofuran	42	9.174	9.158	0.016	93	519783	58.6	
59 Chloroform	83	9.219	9.213	0.006	98	1313518	54.3	
60 1,1,1-Trichloroethane	97	9.544	9.537	0.007	93	1195829	48.3	
62 Cyclohexane	84	9.643	9.619	0.024	93	655627	54.8	
64 Carbon tetrachloride	117	9.841	9.826	0.015	98	1190896	57.8	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.094	10.057	0.037	0	755414	38.8	
67 Benzene	78	10.202	10.196	0.006	96	1202537	51.5	
68 1,2-Dichloroethane	62	10.229	10.223	0.006	88	680608	52.5	
70 Isooctane	57	10.365	10.367	-0.002	96	3129258	51.1	
71 n-Heptane	43	10.708	10.710	-0.002	94	1181854	56.9	
* 73 1,4-Difluorobenzene	114	10.897	10.869	0.028	90	2304475	50.0	
74 Trichloroethene	130	11.348	11.360	-0.012	95	974097	57.6	
75 1,2-Dichloropropane	76	11.745	11.730	0.015	87	300441	55.7	
76 Dibromomethane	174	11.953	11.955	-0.002	85	1279480	48.2	
77 Methyl methacrylate	69	11.998	11.982	0.016	92	644038	57.3	
79 1,4-Dioxane	88	12.025	12.001	0.024	92	346593	53.4	
80 Dichlorobromomethane	85	12.241	12.244	-0.003	96	967094	54.9	
81 cis-1,3-Dichloropropene	75	13.044	13.056	-0.012	95	785309	47.0	
83 4-Methyl-2-pentanone (MIBK)	58	13.324	13.318	0.006	98	546055	57.3	
$ 85 Toluene-d8 (Surr)	100	13.550	13.513	0.037	96	1256971	52.1	
87 Toluene	91	13.676	13.661	0.015	87	1650392	59.3	
88 n-Octane	43	13.893	13.904	-0.011	93	1764534	55.2	
89 trans-1,3-Dichloropropene	75	14.055	14.049	0.006	95	722974	46.0	
91 1,1,2-Trichloroethane	97	14.389	14.383	0.007	93	821752	55.2	
96 Tetrachloroethene	166	14.678	14.689	-0.011	97	1607191	52.2	
98 2-Hexanone	58	14.849	14.852	-0.003	97	699244	60.3	
99 Chlorodibromomethane	129	15.129	15.131	-0.002	95	1844401	58.3	
101 Ethylene Dibromide	107	15.336	15.339	-0.003	97	1701182	57.7	
* 102 Chlorobenzene-d5 (IS)	117	16.220	16.202	0.018	86	1858326	50.0	
103 Chlorobenzene	112	16.293	16.286	0.007	92	1474135	58.6	
105 Ethylbenzene	91	16.491	16.494	-0.003	99	2366395	59.4	
107 m-Xylene & p-Xylene	91	16.717	16.728	-0.011	0	3972675	119.6	
109 n-Nonane	43	16.780	16.783	-0.003	89	1962782	55.0	
112 o-Xylene	106	17.484	17.495	-0.011	88	916012	59.9	
113 Styrene	104	17.511	17.522	-0.011	88	1346010	62.0	
114 Bromoform	173	17.872	17.874	-0.002	97	2321334	57.7	
115 Isopropylbenzene	120	18.214	18.217	-0.003	97	827564	52.9	
$ 117 4-Bromofluorobenzene (Surr)	95	18.512	18.484	0.028	92	2007464	50.3	
119 1,1,2,2-Tetrachloroethane	83	18.774	18.777	-0.003	94	2030751	61.7	
121 1,2,3-Trichloropropane	110	18.846	18.867	-0.021	93	607207	51.8	
122 N-Propylbenzene	91	19.018	19.029	-0.011	98	3245667	55.0	
123 2-Chlorotoluene	126	19.198	19.210	-0.012	95	760098	59.1	
124 4-Ethyltoluene	120	19.252	19.255	-0.003	96	756720	55.1	
125 1,3,5-Trimethylbenzene	120	19.369	19.390	-0.021	88	1330622	57.7	
126 n-Decane	57	19.396	19.399	-0.003	92	2263049	56.4	
127 Alpha Methyl Styrene	118	19.812	19.823	-0.011	83	1140672	60.6	
128 tert-Butylbenzene	91	20.028	20.031	-0.003	89	2071967	55.4	
129 1,2,4-Trimethylbenzene	120	20.127	20.130	-0.003	64	1218661	58.8	
130 sec-Butylbenzene	105	20.461	20.473	-0.012	94	3711278	52.1	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
131 1,3-Dichlorobenzene	146	20.696	20.707	-0.011	95	1847419	57.3	
132 4-Isopropyltoluene	119	20.759	20.762	-0.003	94	3098984	51.7	
133 1,4-Dichlorobenzene	146	20.867	20.879	-0.012	92	1913525	56.3	
135 Benzyl chloride	91	21.120	21.131	-0.011	98	1967857	60.8	
136 n-Butylbenzene	92	21.526	21.528	-0.002	96	1457835	52.8	
137 1,2-Dichlorobenzene	146	21.553	21.565	-0.012	95	1723473	56.2	
138 Undecane	57	21.679	21.700	-0.021	95	1855203	40.7	
140 Dodecane	57	23.249	23.297	-0.048	92	444775	15.1	
142 1,2,4-Trichlorobenzene	180	23.890	23.938	-0.048	88	981272	31.8	
143 Hexachlorobutadiene	225	24.133	24.172	-0.039	92	782738	21.0	
145 Naphthalene	128	24.251	24.298	-0.047	98	1833224	49.1	
146 1,2,3-Trichlorobenzene	180	24.594	24.641	-0.047	95	711587	27.0	

Report Date: 15-Feb-2013 10:01:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\LC02143.D		
Injection Date:	14-Feb-2013 17:42:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	14
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\BF02141.D		
Lims ID:	BFB	Client ID:	
Inject. Date:	14-Feb-2013 09:03:30	Dil. Factor:	1.0000
Sample Type:	BFB		
Sample ID:	BFB		
Misc. Info.:	340-0002766-001		
Operator:	DLK	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	1
Lims Batch ID:	4057	Lims Sample ID:	1
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 09:26:35	Calib Date:	13-Feb-2013 20:26:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130213-2759.b\IC02138.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK011		

First Level Reviewer: kammererd Date: 14-Feb-2013 09:26:35

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags

$ 26 BFB

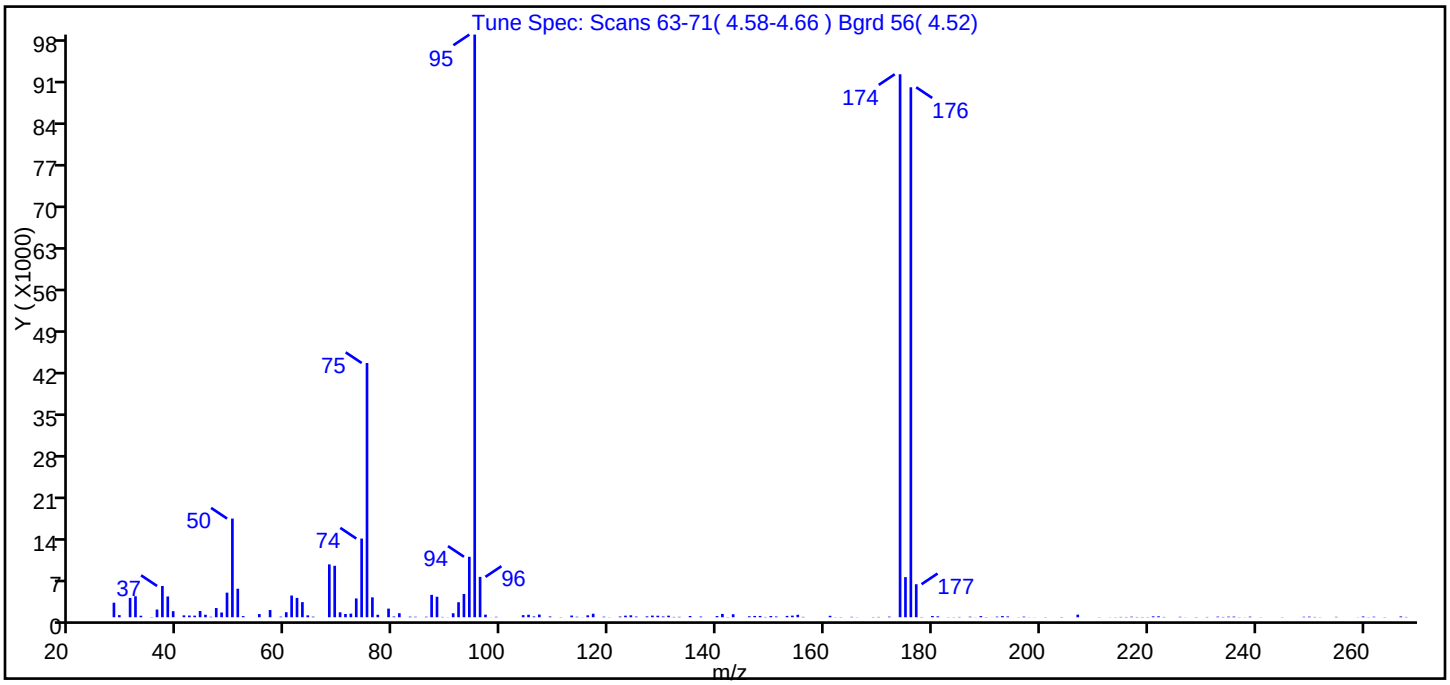
Report Date: 14-Feb-2013 09:26:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48

MS Tune Report

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\BF02141.D		
Injection Date:	14-Feb-2013 09:03:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	1
Operator ID:	DLK	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Tune Method:	BFB Method TO-15		

$ 26 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	16.94
75	30.00 - 66.00% of mass 95	43.63
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	93.19
175	4.00 - 9.00% of mass 174	6.89 (7.39)
176	93.00 - 101.00% of mass 174	90.96 (97.60)
177	5.00 - 9.00% of mass 176	5.67 (6.23)

Data File: \\Lachrom\ChromData\MSB\20130214-2766.b\BF02141.D\TO15_MSB.rslt\spectra.d
Injection Date: 14-Feb-2013 09:03:30
Spectrum: Tune Spec: Scans 63-71(4.58-4.66) Bgrd 56(4.52)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	2468	81.00	682	140.00	204	201.00	36
29.00	361	83.00	103	141.00	568	204.00	46
31.00	3279	84.00	85	142.00	42	207.00	440
32.00	3558	86.00	93	143.00	508	211.00	31
33.00	259	87.00	3797	146.00	167	213.00	20
35.00	47	88.00	3476	147.00	218	214.00	29
36.00	1310	89.00	59	148.00	222	215.00	59
37.00	5300	90.00	22	149.00	52	216.00	48
38.00	3522	91.00	676	150.00	212	217.00	96
39.00	1031	92.00	2545	151.00	130	218.00	50
41.00	320	93.00	3944	153.00	227	219.00	45
42.00	294	94.00	10246	154.00	276	220.00	36
43.00	272	95.00	98712	155.00	419	221.00	151
44.00	1069	96.00	6843	156.00	66	222.00	158
45.00	426	97.00	441	161.00	250	223.00	56
46.00	87	98.00	17	162.00	25	226.00	80
47.00	1562	99.00	78	163.00	39	227.00	20
48.00	807	104.00	355	165.00	69	229.00	44
49.00	4171	105.00	427	166.00	26	231.00	54
50.00	16720	106.00	138	169.00	43	233.00	108
51.00	4834	107.00	461	170.00	58	234.00	54
52.00	198	109.00	135	172.00	104	235.00	102
55.00	537	111.00	37	174.00	91992	236.00	114
57.00	1225	113.00	290	175.00	6801	237.00	34
59.00	105	114.00	89	176.00	89784	238.00	21
60.00	858	115.00	17	177.00	5598	239.00	103
61.00	3684	116.00	331	178.00	46	241.00	28
62.00	3280	117.00	598	180.00	207	245.00	32
63.00	2562	119.00	96	181.00	154	249.00	83
64.00	322	120.00	27	183.00	30	250.00	109
65.00	102	122.00	128	184.00	29	251.00	55
68.00	8954	123.00	269	185.00	59	252.00	25
69.00	8713	124.00	331	187.00	98	255.00	71

Report Date: 14-Feb-2013 09:26:36 Chrom Revision: 2.0 22-Oct-2012 16:30:48
Data File: \\Lachrom\ChromData\MSB\20130214-2766.b\BF02141.D\TO15_MSB.rslt\spectra.d
Injection Date: 14-Feb-2013 09:03:30
Spectrum: Tune Spec: Scans 63-71(4.58-4.66) Bgrd 56(4.52)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	841	125.00	119	188.00	21	259.00	23
71.00	554	127.00	156	189.00	198	260.00	132
72.00	615	128.00	280	190.00	43	261.00	33
73.00	3190	129.00	261	192.00	107	262.00	97
74.00	13333	130.00	135	193.00	203	264.00	36
75.00	43072	131.00	270	194.00	140	267.00	141
76.00	3371	132.00	59	196.00	25	268.00	55
77.00	425	133.00	72	197.00	105		
79.00	1465	135.00	212	198.00	20		
80.00	130	137.00	116	199.00	21		

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-4057/16

Matrix: Air | Lab File ID: MB02143M.D

Analysis Method: TO-15 MOD | Date Collected:

Sample wt/vol: 500(mL) | Date Analyzed: 02/14/2013 19:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		4.0	1.0
67-66-3	Chloroform	119.38	ND		4.0	1.0
75-35-4	1,1-Dichloroethene	96.94	ND		4.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		4.0	1.0
156-60-5	trans-1,2-Dichloroethene	96.94	ND		4.0	1.0
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		4.0	1.0
127-18-4	Tetrachloroethene	165.83	ND		4.0	1.0
108-88-3	Toluene	92.14	ND		4.0	1.0
79-01-6	Trichloroethene	131.39	ND		4.0	1.0
75-01-4	Vinyl chloride	62.50	ND		4.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-4057/16

Matrix: Air | Lab File ID: MB02143M.D

Analysis Method: TO-15 MOD | Date Collected:

Sample wt/vol: 500(mL) | Date Analyzed: 02/14/2013 19:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ug/m3

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	ND		13	3.2
67-66-3	Chloroform	119.38	ND		20	4.9
75-35-4	1,1-Dichloroethene	96.94	ND		16	4.0
156-59-2	cis-1,2-Dichloroethene	96.94	ND		16	4.0
156-60-5	trans-1,2-Dichloroethene	96.94	ND		16	4.0
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	ND		14	3.6
127-18-4	Tetrachloroethene	165.83	ND		27	6.8
108-88-3	Toluene	92.14	ND		15	3.8
79-01-6	Trichloroethene	131.39	ND		21	5.4
75-01-4	Vinyl chloride	62.50	ND		10	2.6

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	99		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		70-130
2037-26-5	Toluene-d8 (Surr)	100		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\MB02143M.D		
Lims ID:	MB	Client ID:	
Inject. Date:	14-Feb-2013 19:03:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	340-0002766-016		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	8
Lims Batch ID:	4057	Lims Sample ID:	16
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	14-Feb-2013 20:51:33	Calib Date:	14-Feb-2013 14:46:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC02148.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK031		

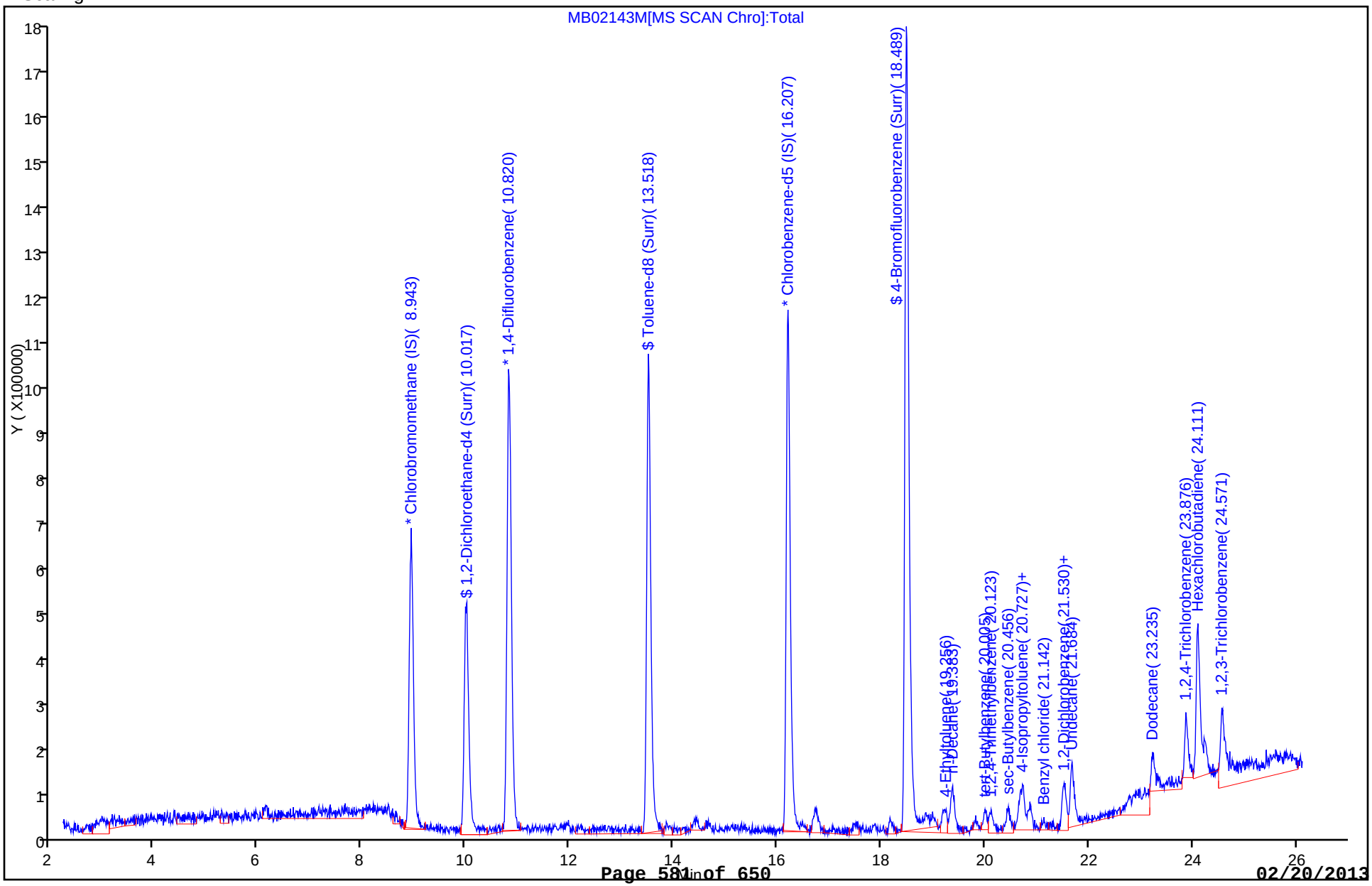
First Level Reviewer: donga Date: 14-Feb-2013 20:51:33

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
33 Acetone	58	5.443	5.459	-0.016	26	6128	1.86	
* 56 Chlorobromomethane (IS)	130	8.943	9.059	-0.116	88	705261	50.0	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.008	10.088	-0.080	0	785233	49.0	
* 73 1,4-Difluorobenzene	114	10.820	10.900	-0.080	91	2375665	50.0	
$ 85 Toluene-d8 (Surr)	100	13.527	13.543	-0.016	98	1266677	50.2	
* 102 Chlorobenzene-d5 (IS)	117	16.216	16.232	-0.016	87	1931975	50.0	
$ 117 4-Bromofluorobenzene (Surr)	95	18.489	18.515	-0.026	92	2083066	49.7	
122 N-Propylbenzene	91	19.013	19.029	-0.016	68	63153	1.03	
124 4-Ethyltoluene	120	19.229	19.255	-0.026	52	17830	1.25	
126 n-Decane	57	19.392	19.399	-0.007	85	67697	1.62	
128 tert-Butylbenzene	91	20.014	20.031	-0.017	66	47402	1.22	
129 1,2,4-Trimethylbenzene	120	20.123	20.130	-0.007	65	35238	1.64	
130 sec-Butylbenzene	105	20.438	20.473	-0.035	81	104478	1.41	
131 1,3-Dichlorobenzene	146	20.682	20.707	-0.025	77	66782	1.99	
132 4-Isopropyltoluene	119	20.745	20.762	-0.017	74	119447	1.92	
133 1,4-Dichlorobenzene	146	20.871	20.879	-0.008	73	70901	2.01	
135 Benzyl chloride	91	21.142	21.131	0.011	75	45986	1.37	
136 n-Butylbenzene	92	21.512	21.528	-0.016	80	69254	2.41	
137 1,2-Dichlorobenzene	146	21.539	21.565	-0.026	75	65100	2.04	
138 Undecane	57	21.684	21.700	-0.016	91	118129	2.50	
140 Dodecane	57	23.235	23.297	-0.062	84	204577	6.68	
142 1,2,4-Trichlorobenzene	180	23.876	23.938	-0.062	85	174233	5.43	
143 Hexachlorobutadiene	225	24.120	24.172	-0.052	92	254610	6.56	
145 Naphthalene	128	24.246	24.298	-0.052	96	191597	4.94	
146 1,2,3-Trichlorobenzene	180	24.571	24.641	-0.070	91	150804	5.51	

Report Date: 14-Feb-2013 20:51:34 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\MB02143M.D		
Injection Date:	14-Feb-2013 19:03:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	16
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 340-4057/1002

Matrix: Air | Lab File ID: LC02143-LCS.d

Analysis Method: TO-15 MOD | Date Collected:

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2013 17:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	51.5		4.0	1.0
67-66-3	Chloroform	119.38	54.3		4.0	1.0
75-35-4	1,1-Dichloroethene	96.94	54.7		4.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	58.9		4.0	1.0
156-60-5	trans-1,2-Dichloroethene	96.94	55.7		4.0	1.0
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	54.0		4.0	1.0
127-18-4	Tetrachloroethene	165.83	52.2		4.0	1.0
108-88-3	Toluene	92.14	59.3		4.0	1.0
79-01-6	Trichloroethene	131.39	57.6		4.0	1.0
75-01-4	Vinyl chloride	62.50	53.2		4.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	78		70-130
2037-26-5	Toluene-d8 (Surr)	104		70-130

TestAmerica Laboratories
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\LC02143-LCS.d		
Lims ID:	ICV	Client ID:	
Inject. Date:	14-Feb-2013 17:42:30	Dil. Factor:	1.0000
Sample Type:	LCS		
Sample ID:	ICV		
Misc. Info.:	340-0002766-014		
Operator:	AD	Instrument ID:	MSB
Injection Vol:	1.0 ul	ALS Bottle#:	9
Lims Batch ID:	4057	Lims Sample ID:	1002
Detector:	MS SCAN		

Method:	\\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m		
Method Label:	MSB_TO14/ TO15 MOD SAMPLE REPORT		
Last Update:	15-Feb-2013 10:01:36	Calib Date:	15-Feb-2013 06:37:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSB\20130214-2766.b\IC0214F.D		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	DB-624MS	Column Dia:	
Process Host:	XAWRK020		

First Level Reviewer: almagroa Date: 15-Feb-2013 10:01:36

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.335	2.292	0.043	95	211883	68.0	
10 Dichlorodifluoromethane	85	2.425	2.391	0.034	100	1870363	54.3	
11 Chlorodifluoromethane	51	2.434	2.400	0.034	87	909770	56.6	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.705	2.671	0.033	90	1939484	53.8	
14 Chloromethane	50	2.732	2.698	0.034	99	580875	55.3	
15 Vinyl chloride	62	2.966	2.933	0.033	91	417339	53.2	
16 Butane	43	2.966	2.933	0.033	93	579580	53.3	
17 Butadiene	39	3.047	3.023	0.024	92	356143	56.3	
18 Bromomethane	94	3.571	3.546	0.025	98	350671	52.0	
20 Chloroethane	64	3.787	3.754	0.033	97	202267	56.3	
22 Vinyl bromide	106	4.148	4.133	0.015	95	626202	45.2	
23 Trichlorofluoromethane	101	4.320	4.286	0.034	98	1931187	54.2	
25 Pentane	43	4.482	4.467	0.015	92	857211	53.1	
28 Ethyl ether	59	4.924	4.909	0.015	93	353688	55.2	
29 Acrolein	56	5.159	5.143	0.016	79	101884	48.0	
30 1,1-Dichloroethene	61	5.303	5.288	0.015	98	997962	54.7	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.366	5.360	0.006	94	2061301	53.1	
33 Acetone	58	5.483	5.459	0.024	74	184204	58.6	
34 Carbon disulfide	76	5.691	5.667	0.024	99	1213481	58.3	
38 3-Chloro-1-propene	41	6.007	6.009	-0.002	87	551470	61.6	
39 Methylene Chloride	49	6.259	6.244	0.015	89	624522	59.7	
42 Acrylonitrile	53	6.765	6.758	0.007	63	246316	55.4	
41 trans-1,2-Dichloroethene	61	6.792	6.767	0.025	96	966104	55.7	
43 Methyl tert-butyl ether	73	6.837	6.822	0.015	92	1549715	54.0	
45 Hexane	41	7.324	7.327	-0.003	90	725889	51.2	
46 1,1-Dichloroethane	63	7.568	7.561	0.007	98	993370	53.4	
48 Vinyl acetate	43	7.748	7.733	0.015	98	595032	28.0	
52 cis-1,2-Dichloroethene	96	8.641	8.635	0.006	96	606611	58.9	
53 2-Butanone (MEK)	72	8.705	8.698	0.007	99	225398	62.1	

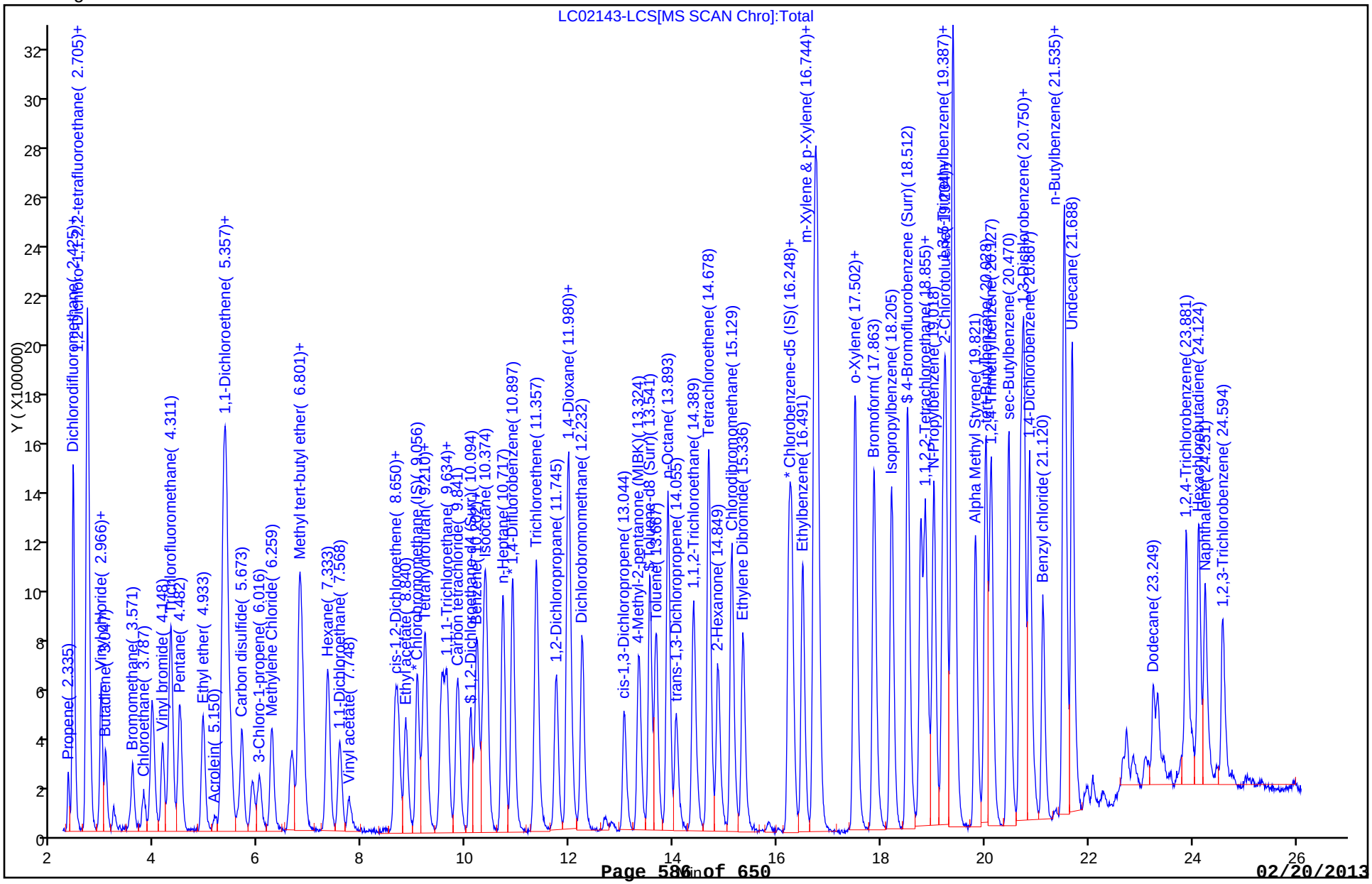
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
54 Ethyl acetate	43	8.840	8.825	0.015	97	1462235	57.3	
* 56 Chlorobromomethane (IS)	130	9.065	9.038	0.027	84	673872	50.0	
58 Tetrahydrofuran	42	9.174	9.158	0.016	93	519783	58.6	
59 Chloroform	83	9.219	9.213	0.006	98	1313518	54.3	
60 1,1,1-Trichloroethane	97	9.544	9.537	0.007	93	1195829	48.3	
62 Cyclohexane	84	9.643	9.619	0.024	93	655627	54.8	
64 Carbon tetrachloride	117	9.841	9.826	0.015	98	1190896	57.8	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.094	10.057	0.037	0	755414	38.8	
67 Benzene	78	10.202	10.196	0.006	96	1202537	51.5	
68 1,2-Dichloroethane	62	10.229	10.223	0.006	88	680608	52.5	
70 Isooctane	57	10.365	10.367	-0.002	96	3129258	51.1	
71 n-Heptane	43	10.708	10.710	-0.002	94	1181854	56.9	
* 73 1,4-Difluorobenzene	114	10.897	10.869	0.028	90	2304475	50.0	
74 Trichloroethene	130	11.348	11.360	-0.012	95	974097	57.6	
75 1,2-Dichloropropane	76	11.745	11.730	0.015	87	300441	55.7	
76 Dibromomethane	174	11.953	11.955	-0.002	85	1279480	48.2	
77 Methyl methacrylate	69	11.998	11.982	0.016	92	644038	57.3	
79 1,4-Dioxane	88	12.025	12.001	0.024	92	346593	53.4	
80 Dichlorobromomethane	85	12.241	12.244	-0.003	96	967094	54.9	
81 cis-1,3-Dichloropropene	75	13.044	13.056	-0.012	95	785309	47.0	
83 4-Methyl-2-pentanone (MIBK)	58	13.324	13.318	0.006	98	546055	57.3	
$ 85 Toluene-d8 (Surr)	100	13.550	13.513	0.037	96	1256971	52.1	
87 Toluene	91	13.676	13.661	0.015	87	1650392	59.3	
88 n-Octane	43	13.893	13.904	-0.011	93	1764534	55.2	
89 trans-1,3-Dichloropropene	75	14.055	14.049	0.006	95	722974	46.0	
91 1,1,2-Trichloroethane	97	14.389	14.383	0.007	93	821752	55.2	
96 Tetrachloroethene	166	14.678	14.689	-0.011	97	1607191	52.2	
98 2-Hexanone	58	14.849	14.852	-0.003	97	699244	60.3	
99 Chlorodibromomethane	129	15.129	15.131	-0.002	95	1844401	58.3	
101 Ethylene Dibromide	107	15.336	15.339	-0.003	97	1701182	57.7	
* 102 Chlorobenzene-d5 (IS)	117	16.220	16.202	0.018	86	1858326	50.0	
103 Chlorobenzene	112	16.293	16.286	0.007	92	1474135	58.6	
105 Ethylbenzene	91	16.491	16.494	-0.003	99	2366395	59.4	
107 m-Xylene & p-Xylene	91	16.717	16.728	-0.011	0	3972675	119.6	
109 n-Nonane	43	16.780	16.783	-0.003	89	1962782	55.0	
112 o-Xylene	106	17.484	17.495	-0.011	88	916012	59.9	
113 Styrene	104	17.511	17.522	-0.011	88	1346010	62.0	
114 Bromoform	173	17.872	17.874	-0.002	97	2321334	57.7	
115 Isopropylbenzene	120	18.214	18.217	-0.003	97	827564	52.9	
$ 117 4-Bromofluorobenzene (Surr)	95	18.512	18.484	0.028	92	2007464	50.3	
119 1,1,2,2-Tetrachloroethane	83	18.774	18.777	-0.003	94	2030751	61.7	
121 1,2,3-Trichloropropane	110	18.846	18.867	-0.021	93	607207	51.8	
122 N-Propylbenzene	91	19.018	19.029	-0.011	98	3245667	55.0	
123 2-Chlorotoluene	126	19.198	19.210	-0.012	95	760098	59.1	
124 4-Ethyltoluene	120	19.252	19.255	-0.003	96	756720	55.1	
125 1,3,5-Trimethylbenzene	120	19.369	19.390	-0.021	88	1330622	57.7	
126 n-Decane	57	19.396	19.399	-0.003	92	2263049	56.4	
127 Alpha Methyl Styrene	118	19.812	19.823	-0.011	83	1140672	60.6	
128 tert-Butylbenzene	91	20.028	20.031	-0.003	89	2071967	55.4	
129 1,2,4-Trimethylbenzene	120	20.127	20.130	-0.003	64	1218661	58.8	
130 sec-Butylbenzene	105	20.461	20.473	-0.012	94	3711278	52.1	
131 1,3-Dichlorobenzene	146	20.696	20.707	-0.011	95	1847419	57.3	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
132 4-Isopropyltoluene	119	20.759	20.762	-0.003	94	3098984	51.7	
133 1,4-Dichlorobenzene	146	20.867	20.879	-0.012	92	1913525	56.3	
135 Benzyl chloride	91	21.120	21.131	-0.011	98	1967857	60.8	
136 n-Butylbenzene	92	21.526	21.528	-0.002	96	1457835	52.8	
137 1,2-Dichlorobenzene	146	21.553	21.565	-0.012	95	1723473	56.2	
138 Undecane	57	21.679	21.700	-0.021	95	1855203	40.7	
140 Dodecane	57	23.249	23.297	-0.048	92	444775	15.1	
142 1,2,4-Trichlorobenzene	180	23.890	23.938	-0.048	88	981272	31.8	
143 Hexachlorobutadiene	225	24.133	24.172	-0.039	92	782738	21.0	
145 Naphthalene	128	24.251	24.298	-0.047	98	1833224	49.1	
146 1,2,3-Trichlorobenzene	180	24.594	24.641	-0.047	95	711587	27.0	

Report Date: 15-Feb-2013 10:01:37 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Laboratories

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\LC02143-LCS.d		
Injection Date:	14-Feb-2013 17:42:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	1002
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5923-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 340-4057/15

Matrix: Air | Lab File ID: LC02144.D

Analysis Method: TO-15 MOD | Date Collected:

Sample wt/vol: 250(mL) | Date Analyzed: 02/14/2013 18:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 4057 | Units: ppb v/v

CAS NO.	COMPOUND NAME	MOLECULAR WEIGHT	RESULT	Q	RL	MDL
71-43-2	Benzene	78.11	51.2		4.0	1.0
67-66-3	Chloroform	119.38	53.8		4.0	1.0
75-35-4	1,1-Dichloroethene	96.94	55.6		4.0	1.0
156-59-2	cis-1,2-Dichloroethene	96.94	59.4		4.0	1.0
156-60-5	trans-1,2-Dichloroethene	96.94	55.3		4.0	1.0
1634-04-4	Methyl-t-Butyl Ether (MTBE)	88.15	53.8		4.0	1.0
127-18-4	Tetrachloroethene	165.83	51.8		4.0	1.0
108-88-3	Toluene	92.14	58.8		4.0	1.0
79-01-6	Trichloroethene	131.39	56.9		4.0	1.0
75-01-4	Vinyl chloride	62.50	52.3		4.0	1.0

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	82		70-130
2037-26-5	Toluene-d8 (Surr)	101		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File: \\Lachrom\ChromData\MSB\20130214-2766.b\LC02144.D
Lims ID: LCSD Client ID:
Inject. Date: 14-Feb-2013 18:22:30 Dil. Factor: 1.0000
Sample Type: LCSD
Sample ID: LCSD
Misc. Info.: 340-0002766-015
Operator: AD Instrument ID: MSB
Injection Vol: 1.0 ul ALS Bottle#: 9
Lims Batch ID: 4057 Lims Sample ID: 15
Detector: MS SCAN

Method: \\Lachrom\ChromData\MSB\20130214-2766.b\TO15_MSB.m
Method Label: MSB_TO14/ TO15 MOD SAMPLE REPORT
Last Update: 15-Feb-2013 10:03:29 Calib Date: 15-Feb-2013 06:37:30
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\Lachrom\ChromData\MSB\20130214-2766.b\IC0214F.D
Limit Group: TO-15-TO-15_MOD_ICAL
Integrator: RTE ID Type: Deconvolution ID
Column Type: DB-624MS Column Dia:
Process Host: XAWRK020

First Level Reviewer: almagroa Date: 15-Feb-2013 10:03:29

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
9 Propene	41	2.352	2.292	0.060	95	208735	68.3	
10 Dichlorodifluoromethane	85	2.442	2.391	0.051	99	1862675	55.1	
11 Chlorodifluoromethane	51	2.452	2.400	0.052	91	885781	56.1	
13 1,2-Dichloro-1,1,2,2-tetrafluoro	135	2.713	2.671	0.042	90	1920092	54.2	
14 Chloromethane	50	2.749	2.698	0.051	99	570697	55.4	
15 Vinyl chloride	62	2.975	2.933	0.042	90	403019	52.3	
16 Butane	43	2.984	2.933	0.051	95	584062	54.8	
17 Butadiene	39	3.065	3.023	0.042	91	345105	55.6	
18 Bromomethane	94	3.588	3.546	0.042	97	337221	51.0	
20 Chloroethane	64	3.796	3.754	0.042	98	186603	52.9	
22 Vinyl bromide	106	4.166	4.133	0.033	96	637934	46.9	
23 Trichlorofluoromethane	101	4.319	4.286	0.033	97	1912179	54.7	
25 Pentane	43	4.491	4.467	0.024	95	844612	53.4	
28 Ethyl ether	59	4.942	4.909	0.033	93	366124	58.2	
29 Acrolein	56	5.167	5.143	0.024	88	108996	52.3	
30 1,1-Dichloroethene	61	5.321	5.288	0.033	99	995862	55.6	
31 1,1,2-Trichloro-1,2,2-trifluoroe	101	5.375	5.360	0.015	94	2059921	54.1	
33 Acetone	58	5.474	5.459	0.015	72	179872	58.4	
34 Carbon disulfide	76	5.691	5.667	0.024	98	1206708	59.1	
38 3-Chloro-1-propene	41	6.015	6.009	0.006	89	538131	61.3	
39 Methylene Chloride	49	6.259	6.244	0.015	90	623937	61.2	
42 Acrylonitrile	53	6.773	6.758	0.015	80	246554	56.5	
41 trans-1,2-Dichloroethene	61	6.800	6.767	0.033	97	941363	55.3	
43 Methyl tert-butyl ether	73	6.846	6.822	0.024	95	1515116	53.8	
45 Hexane	41	7.342	7.327	0.015	90	735764	52.9	
46 1,1-Dichloroethane	63	7.576	7.561	0.015	99	984461	53.9	
48 Vinyl acetate	43	7.757	7.733	0.024	99	551121	26.4	
52 cis-1,2-Dichloroethene	96	8.641	8.635	0.006	96	600822	59.4	
53 2-Butanone (MEK)	72	8.713	8.698	0.015	98	224349	63.0	

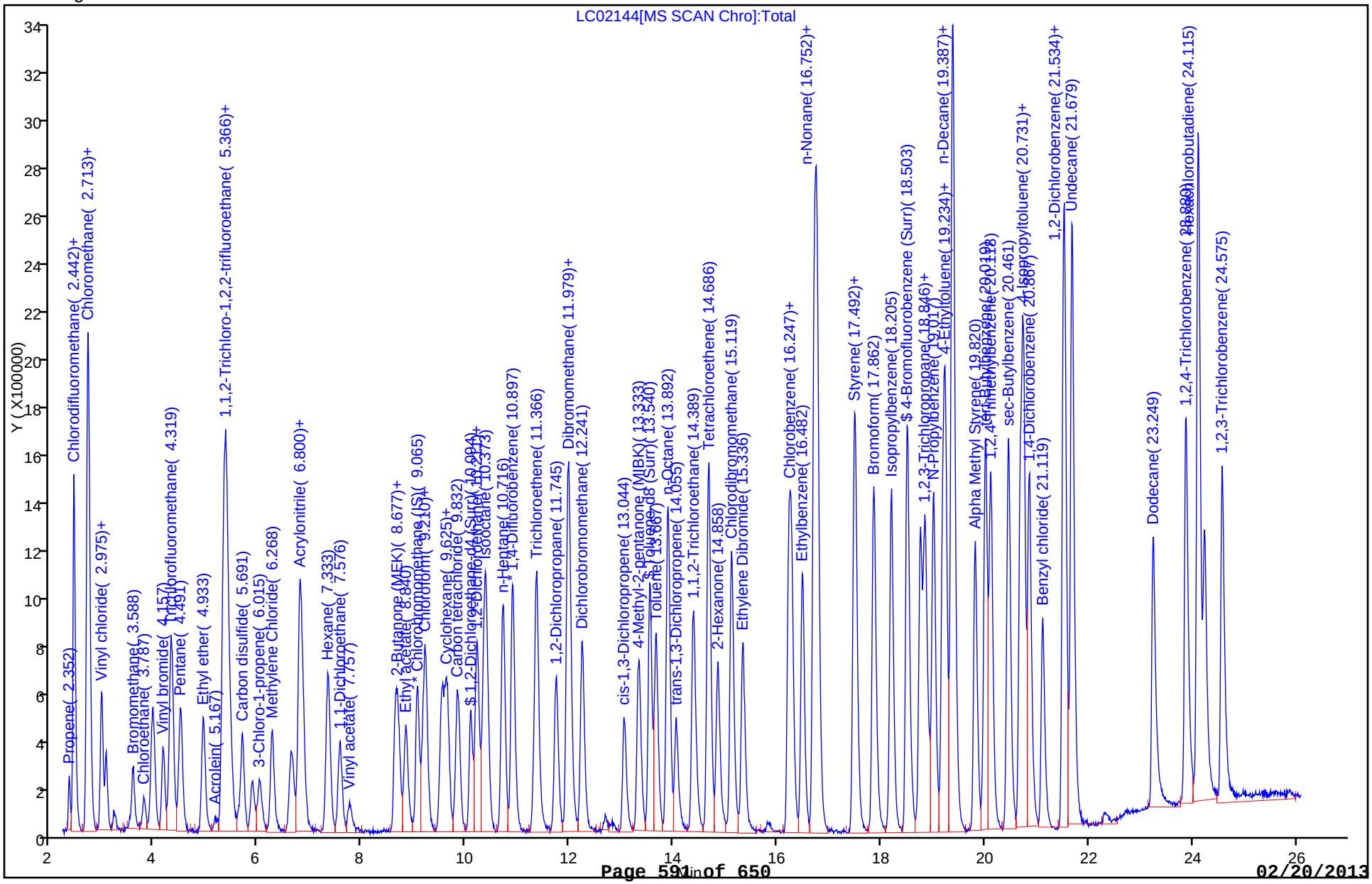
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
54 Ethyl acetate	43	8.849	8.825	0.024	98	1428914	57.1	
* 56 Chlorobromomethane (IS)	130	9.074	9.038	0.036	82	661187	50.0	
58 Tetrahydrofuran	42	9.173	9.158	0.015	91	496519	57.1	
59 Chloroform	83	9.210	9.213	-0.003	94	1276892	53.8	
60 1,1,1-Trichloroethane	97	9.543	9.537	0.006	92	1167456	48.1	
62 Cyclohexane	84	9.643	9.619	0.024	93	650631	55.4	
64 Carbon tetrachloride	117	9.841	9.826	0.015	97	1121150	55.4	
$ 65 1,2-Dichloroethane-d4 (Surr)	65	10.094	10.057	0.037	0	782943	41.0	
67 Benzene	78	10.202	10.196	0.006	96	1230512	51.2	
68 1,2-Dichloroethane	62	10.238	10.223	0.015	87	687496	51.6	
70 Isooctane	57	10.373	10.367	0.006	96	3197063	50.8	
71 n-Heptane	43	10.716	10.710	0.006	95	1185894	55.5	
* 73 1,4-Difluorobenzene	114	10.906	10.869	0.037	91	2370254	50.0	
74 Trichloroethene	130	11.366	11.360	0.006	96	990922	56.9	
75 1,2-Dichloropropane	76	11.736	11.730	0.006	85	299100	53.9	
76 Dibromomethane	174	11.961	11.955	0.006	88	1284606	47.0	
77 Methyl methacrylate	69	11.979	11.982	-0.003	90	637307	55.1	
79 1,4-Dioxane	88	12.016	12.001	0.015	93	363568	54.4	
80 Dichlorobromomethane	85	12.241	12.244	-0.003	97	943107	52.1	
81 cis-1,3-Dichloropropene	75	13.044	13.056	-0.012	95	766651	44.6	
83 4-Methyl-2-pentanone (MIBK)	58	13.342	13.318	0.024	98	538660	55.0	
$ 85 Toluene-d8 (Surr)	100	13.540	13.513	0.027	98	1251974	50.5	
87 Toluene	91	13.667	13.661	0.006	88	1682861	58.8	
88 n-Octane	43	13.892	13.904	-0.012	94	1785274	55.4	
89 trans-1,3-Dichloropropene	75	14.055	14.049	0.006	95	702191	44.4	
91 1,1,2-Trichloroethane	97	14.380	14.383	-0.002	93	825849	55.0	
96 Tetrachloroethene	166	14.677	14.689	-0.012	97	1607636	51.8	
98 2-Hexanone	58	14.858	14.852	0.006	97	705911	60.4	
99 Chlorodibromomethane	129	15.119	15.131	-0.012	95	1894939	59.4	
101 Ethylene Dibromide	107	15.336	15.339	-0.003	99	1702852	57.3	
* 102 Chlorobenzene-d5 (IS)	117	16.229	16.202	0.027	88	1873187	50.0	
103 Chlorobenzene	112	16.274	16.286	-0.012	92	1479735	58.4	
105 Ethylbenzene	91	16.491	16.494	-0.003	99	2364150	58.8	
107 m-Xylene & p-Xylene	91	16.707	16.728	-0.021	0	3936962	117.6	
109 n-Nonane	43	16.771	16.783	-0.012	89	1999703	55.6	
112 o-Xylene	106	17.483	17.495	-0.012	87	924274	59.9	
113 Styrene	104	17.519	17.522	-0.003	91	1401849	64.1	
114 Bromoform	173	17.862	17.874	-0.012	98	2339212	57.7	
115 Isopropylbenzene	120	18.205	18.217	-0.012	97	814150	51.6	
$ 117 4-Bromofluorobenzene (Surr)	95	18.503	18.484	0.019	92	1967586	48.9	
119 1,1,2,2-Tetrachloroethane	83	18.765	18.777	-0.012	94	2026490	61.1	
121 1,2,3-Trichloropropane	110	18.855	18.867	-0.012	86	598833	50.7	
122 N-Propylbenzene	91	19.017	19.029	-0.012	98	3317990	55.7	
123 2-Chlorotoluene	126	19.189	19.210	-0.021	95	752676	58.1	
124 4-Ethyltoluene	120	19.252	19.255	-0.003	92	787135	56.8	
125 1,3,5-Trimethylbenzene	120	19.360	19.390	-0.030	90	1375129	59.2	
126 n-Decane	57	19.396	19.399	-0.003	92	2374160	58.7	
127 Alpha Methyl Styrene	118	19.820	19.823	-0.003	83	1143846	60.3	
128 tert-Butylbenzene	91	20.019	20.031	-0.012	91	2177904	57.7	
129 1,2,4-Trimethylbenzene	120	20.118	20.130	-0.012	68	1167812	55.9	
130 sec-Butylbenzene	105	20.461	20.473	-0.012	93	3808047	53.1	
131 1,3-Dichlorobenzene	146	20.686	20.707	-0.021	95	1900208	58.5	

Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
132 4-Isopropyltoluene	119	20.750	20.762	-0.012	93	3225719	53.4	
133 1,4-Dichlorobenzene	146	20.867	20.879	-0.012	94	1993807	58.2	
135 Benzyl chloride	91	21.119	21.131	-0.012	95	1966723	60.3	
136 n-Butylbenzene	92	21.516	21.528	-0.012	98	1605015	57.6	
137 1,2-Dichlorobenzene	146	21.553	21.565	-0.012	95	1810451	58.5	
138 Undecane	57	21.679	21.700	-0.021	95	2532681	55.2	
140 Dodecane	57	23.258	23.297	-0.039	95	1278771	43.1	
142 1,2,4-Trichlorobenzene	180	23.880	23.938	-0.058	94	1720603	55.3	
143 Hexachlorobutadiene	225	24.115	24.172	-0.057	94	2128720	56.6	
145 Naphthalene	128	24.250	24.298	-0.048	99	2367616	62.9	
146 1,2,3-Trichlorobenzene	180	24.575	24.641	-0.066	96	1510333	56.9	

Report Date: 15-Feb-2013 10:03:29 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSB\20130214-2766.b\LC02144.D		
Injection Date:	14-Feb-2013 18:22:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSB
Lims Batch ID:	4057	Lims Sample ID:	15
Operator ID:	AD	Injection Vol:	1.0 ul
Column Type:	DB-624MS	Column Dia:	
Y Scaling:			



AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5923-1

SDG No.:

Instrument ID: MSB Start Date: 02/14/2013 09:03

Analysis Batch Number: 4057 End Date: 02/15/2013 06:37

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 340-4057/1		02/14/2013 09:03	1	BF02141.D	See SOP
ZZZZZ		02/14/2013 09:30	1		See SOP
IC 340-4057/3		02/14/2013 10:05	1	IC02141.D	See SOP
IC 340-4057/4		02/14/2013 10:46	1	IC02142.D	See SOP
IC 340-4057/5		02/14/2013 11:27	1	IC02143.D	See SOP
IC 340-4057/6		02/14/2013 12:04	1	IC02144.D	See SOP
ICIS 340-4057/7		02/14/2013 12:44	1	IC02145.D	See SOP
IC 340-4057/8		02/14/2013 13:25	1	IC02146.D	See SOP
IC 340-4057/9		02/14/2013 14:06	1	IC02147.D	See SOP
IC 340-4057/10		02/14/2013 14:46	1	IC02148.D	See SOP
ICV 340-4057/14		02/14/2013 17:42	1	LC02143.D	See SOP
LCS 340-4057/1002		02/14/2013 17:42	1	LC02143-LCS.d	See SOP
LCSD 340-4057/15		02/14/2013 18:22	1	LC02144.D	See SOP
ZZZZZ		02/14/2013 18:22	1		See SOP
MB 340-4057/16		02/14/2013 19:03	1	MB02143M.D	See SOP
340-5923-1	SVE-04	02/14/2013 19:57	3.72	B9703.D	See SOP
340-5923-2	1W-01D	02/14/2013 20:35	4.96	B9704.D	See SOP
340-5923-3	SVE-03	02/14/2013 21:16	14.7	B9705.D	See SOP
340-5923-4	SVE-02	02/14/2013 21:56	258	B9706.D	See SOP
340-5923-5	SVE-05	02/14/2013 22:37	41.6	B9707.D	See SOP
340-5923-6	SVE-01-1	02/14/2013 23:17	91	B9708.D	See SOP
340-5923-7	SVE-01-2	02/14/2013 23:57	146	B9709.D	See SOP
340-5923-8	SVE-01-3	02/15/2013 00:37	154	B9710.D	See SOP
340-5923-9	SVE-01-4	02/15/2013 01:18	124	B9711.D	See SOP
340-5923-10	SVE-01-5	02/15/2013 01:58	130	B9712.D	See SOP
IC 340-4057/27		02/15/2013 02:38	1		See SOP
IC 340-4057/28		02/15/2013 03:18	1		See SOP
IC 340-4057/29		02/15/2013 03:58	1		See SOP
IC 340-4057/30		02/15/2013 04:38	1		See SOP
IC 340-4057/31		02/15/2013 05:18	1		See SOP
IC 340-4057/32		02/15/2013 05:57	1		See SOP
IC 340-4057/33		02/15/2013 06:37	1		See SOP

CANISTER QC CERTIFICATION

TestAmerica
THE LEADER in ENVIRONMENTAL TESTING

Certification Type: TO-15

Date Cleaned/Batch: C011213B 340-5743

Date of QC: 01-16-13

Data File Number: MW301SC(MS4)

CANISTER ID NUMBERS

*34000934	34000953
1091	0604
0672	0939
0616	1066
0897	1630
1184	1029

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "*Certification Type*" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

Reviewed By: [signature]

Date: 01-16-13

N:\CO\DOCS\TestAmerica DOCs\Can QC Cert 20070712.doc

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC01151.d

Lab ID: LCS 340-3781/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Acetone	10.0	9.40	94	70-130	
Acrolein	9.20	9.17	100	70-130	
Acrylonitrile	10.0	10.1	101	70-130	
Allyl chloride	9.20	7.60	83	70-130	
Benzene	10.0	11.3	113	70-130	
Benzyl chloride	11.0	13.8	125	70-130	
Bromodichloromethane	10.0	12.8	128	70-130	
Bromoform	10.0	9.71	97	70-130	
Bromomethane	10.0	11.0	110	70-130	
1,3-Butadiene	10.0	10.5	105	70-130	
n-Butane	10.0	10.3	103	70-130	
2-Butanone (MEK)	10.0	10.7	107	70-130	
n-Butylbenzene	10.0	12.3	123	70-130	
sec-Butylbenzene	10.0	10.4	104	70-130	
tert-Butylbenzene	10.0	11.9	119	70-130	
Carbon disulfide	10.0	10.3	103	70-130	
Carbon tetrachloride	10.0	10.9	109	70-130	
Chloroethane	10.0	10.7	107	70-130	
Chlorobenzene	10.7	10.0	94	70-130	
Chlorodifluoromethane	10.0	11.0	110	70-130	
Chloroform	10.0	9.85	98	70-130	
Chloromethane	10.0	10.5	105	70-130	
2-Chlorotoluene	10.8	10.4	96	70-130	
Cyclohexane	10.0	9.29	93	70-130	
Dibromochloromethane	11.5	11.2	98	70-130	
1,2-Dibromoethane (EDB)	10.0	10.6	106	70-130	
Dibromomethane	10.0	9.97	100	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	11.5	115	70-130	
1,2-Dichlorobenzene	10.8	11.7	109	70-130	
1,3-Dichlorobenzene	11.0	11.3	103	70-130	
1,4-Dichlorobenzene	10.0	11.3	113	70-130	
Dichlorodifluoromethane	10.0	11.4	114	70-130	
1,1-Dichloroethane	10.0	9.53	95	70-130	
1,2-Dichloroethane	10.0	12.2	122	70-130	
1,1-Dichloroethene	10.0	9.09	91	70-130	
cis-1,2-Dichloroethene	10.0	9.73	97	70-130	
trans-1,2-Dichloroethene	10.0	9.52	95	70-130	
1,2-Dichloropropane	10.0	10.6	106	70-130	
cis-1,3-Dichloropropene	10.6	13.2	124	70-130	
trans-1,3-Dichloropropene	10.0	11.9	119	70-130	
1,4-Dioxane	10.0	11.5	115	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC01151.d

Lab ID: LCS 340-3781/4 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCS CONCENTRATION (ppb v/v)	LCS % REC	QC LIMITS REC	#
Ethyl acetate	10.0	10.9	109	70-130	
Ethylbenzene	10.6	10.7	101	70-130	
4-Ethyltoluene	10.0	9.39	94	70-130	
n-Heptane	10.0	11.4	114	70-130	
Hexachlorobutadiene	10.0	11.7	117	70-130	
n-Hexane	10.0	8.98	90	70-130	
2-Hexanone	10.0	10.8	108	70-130	
Isopropylbenzene	10.0	10.1	101	70-130	
4-Isopropyltoluene	10.0	10.8	108	70-130	
Methyl-t-Butyl Ether (MTBE)	10.0	10.6	106	70-130	
Methyl methacrylate	10.0	9.03	90	70-130	
4-Methyl-2-pentanone (MIBK)	10.0	11.8	118	70-130	
Methylene chloride	10.0	9.64	96	70-130	
alpha-Methylstyrene	10.0	10.5	105	70-130	
Naphthalene	10.0	13.3	133	70-130	*
n-Octane	10.0	11.3	113	70-130	
n-Pentane	10.0	9.47	95	70-130	
Propylene	10.9	12.2	112	70-130	
n-Propylbenzene	10.0	10.4	104	70-130	
Styrene	10.8	10.6	98	70-130	
1,1,2,2-Tetrachloroethane	10.8	11.7	108	70-130	
Tetrachloroethene	10.0	8.37	84	70-130	
Tetrahydrofuran	10.0	10.3	103	70-130	
Toluene	10.0	11.6	116	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	9.40	8.60	91	70-130	
1,2,4-Trichlorobenzene	10.0	11.4	114	70-130	
1,1,1-Trichloroethane	10.0	11.2	112	70-130	
1,1,2-Trichloroethane	10.0	10.5	105	70-130	
Trichloroethene	10.0	10.3	103	70-130	
Trichlorofluoromethane	10.0	10.1	101	70-130	
1,2,3-Trichloropropane	10.0	10.7	107	70-130	
1,2,4-Trimethylbenzene	10.0	11.5	115	70-130	
1,3,5-Trimethylbenzene	10.6	11.3	107	70-130	
2,2,4-Trimethylpentane	10.0	8.86	89	70-130	
Vinyl acetate	10.9	11.5	105	70-130	
Vinyl bromide	10.0	7.97	80	70-130	
Vinyl chloride	10.0	10.7	107	70-130	
m,p-Xylene	20.0	21.6	108	70-130	
o-Xylene	10.8	10.8	100	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC01152.d

Lab ID: LCSD 340-3781/5 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCSD CONCENTRATION (ppb v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Acetone	10.0	9.35	93	1	25	70-130	
Acrolein	9.20	9.17	100	0	25	70-130	
Acrylonitrile	10.0	9.89	99	2	25	70-130	
Allyl chloride	9.20	7.54	82	1	25	70-130	
Benzene	10.0	11.0	110	2	25	70-130	
Benzyl chloride	11.0	13.4	122	3	25	70-130	
Bromodichloromethane	10.0	12.2	122	4	25	70-130	
Bromoform	10.0	9.65	97	1	25	70-130	
Bromomethane	10.0	10.5	105	4	25	70-130	
1,3-Butadiene	10.0	10.2	102	3	25	70-130	
n-Butane	10.0	9.93	99	4	25	70-130	
2-Butanone (MEK)	10.0	10.7	107	0	25	70-130	
n-Butylbenzene	10.0	12.0	120	3	25	70-130	
sec-Butylbenzene	10.0	10.1	101	3	25	70-130	
tert-Butylbenzene	10.0	11.6	116	2	25	70-130	
Carbon disulfide	10.0	10.3	103	0	25	70-130	
Carbon tetrachloride	10.0	10.6	106	3	25	70-130	
Chloroethane	10.0	10.3	103	4	25	70-130	
Chlorobenzene	10.7	10.0	94	0	25	70-130	
Chlorodifluoromethane	10.0	10.8	108	2	25	70-130	
Chloroform	10.0	9.82	98	0	25	70-130	
Chloromethane	10.0	9.99	100	5	25	70-130	
2-Chlorotoluene	10.8	10.3	95	1	25	70-130	
Cyclohexane	10.0	9.24	92	1	25	70-130	
Dibromochloromethane	11.5	11.2	98	0	25	70-130	
1,2-Dibromoethane (EDB)	10.0	10.7	107	1	25	70-130	
Dibromomethane	10.0	10.0	100	1	25	70-130	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	10.0	10.7	107	7	25	70-130	
1,2-Dichlorobenzene	10.8	11.5	107	2	25	70-130	
1,3-Dichlorobenzene	11.0	11.1	101	1	25	70-130	
1,4-Dichlorobenzene	10.0	11.1	111	2	25	70-130	
Dichlorodifluoromethane	10.0	11.2	112	2	25	70-130	
1,1-Dichloroethane	10.0	9.47	95	1	25	70-130	
1,2-Dichloroethane	10.0	11.7	117	4	25	70-130	
1,1-Dichloroethene	10.0	9.02	90	1	25	70-130	
cis-1,2-Dichloroethene	10.0	9.68	97	0	25	70-130	
trans-1,2-Dichloroethene	10.0	9.59	96	1	25	70-130	
1,2-Dichloropropane	10.0	10.4	104	2	25	70-130	
cis-1,3-Dichloropropene	10.6	12.6	119	4	25	70-130	
trans-1,3-Dichloropropene	10.0	11.6	116	2	25	70-130	
1,4-Dioxane	10.0	11.3	113	2	25	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM III
AIR - GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Matrix: Air Level: Low Lab File ID: LC01152.d

Lab ID: LCSD 340-3781/5 Client ID:

COMPOUND	SPIKE ADDED (ppb v/v)	LCSD CONCENTRATION (ppb v/v)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethyl acetate	10.0	10.7	107	1	25	70-130	
Ethylbenzene	10.6	10.8	101	0	25	70-130	
4-Ethyltoluene	10.0	9.19	92	2	25	70-130	
n-Heptane	10.0	11.0	110	4	25	70-130	
Hexachlorobutadiene	10.0	11.3	113	3	25	70-130	
n-Hexane	10.0	8.92	89	1	25	70-130	
2-Hexanone	10.0	10.5	105	3	25	70-130	
Isopropylbenzene	10.0	9.97	100	1	25	70-130	
4-Isopropyltoluene	10.0	10.6	106	2	25	70-130	
Methyl-t-Butyl Ether (MTBE)	10.0	10.6	106	0	25	70-130	
Methyl methacrylate	10.0	8.72	87	3	25	70-130	
4-Methyl-2-pentanone (MIBK)	10.0	11.2	112	5	25	70-130	
Methylene chloride	10.0	9.52	95	1	25	70-130	
alpha-Methylstyrene	10.0	10.3	103	2	25	70-130	
Naphthalene	10.0	12.6	126	5	25	70-130	
n-Octane	10.0	10.9	109	4	25	70-130	
n-Pentane	10.0	9.36	94	1	25	70-130	
Propylene	10.9	12.0	110	2	25	70-130	
n-Propylbenzene	10.0	10.2	102	2	25	70-130	
Styrene	10.8	10.6	98	0	25	70-130	
1,1,2,2-Tetrachloroethane	10.8	11.4	106	2	25	70-130	
Tetrachloroethene	10.0	8.45	84	1	25	70-130	
Tetrahydrofuran	10.0	10.2	102	1	25	70-130	
Toluene	10.0	11.2	112	4	25	70-130	
1,1,2-Trichloro-1,2,2-trifluor oethane	9.40	8.64	92	0	25	70-130	
1,2,4-Trichlorobenzene	10.0	10.9	109	4	25	70-130	
1,1,1-Trichloroethane	10.0	11.3	113	0	25	70-130	
1,1,2-Trichloroethane	10.0	10.5	105	0	25	70-130	
Trichloroethene	10.0	10.2	102	1	25	70-130	
Trichlorofluoromethane	10.0	9.92	99	1	25	70-130	
1,2,3-Trichloropropane	10.0	10.7	107	0	25	70-130	
1,2,4-Trimethylbenzene	10.0	11.3	113	2	25	70-130	
1,3,5-Trimethylbenzene	10.6	11.1	105	2	25	70-130	
2,2,4-Trimethylpentane	10.0	8.81	88	1	25	70-130	
Vinyl acetate	10.9	11.4	104	1	25	70-130	
Vinyl bromide	10.0	7.87	79	1	25	70-130	
Vinyl chloride	10.0	10.2	102	5	25	70-130	
m,p-Xylene	20.0	21.3	107	1	25	70-130	
o-Xylene	10.8	10.7	99	1	25	70-130	

Column to be used to flag recovery and RPD values

FORM III TO-15

FORM IV
AIR - GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab File ID: MB01152.d Lab Sample ID: MB 340-3781/6

Matrix: Air Heated Purge:(Y/N) N

Instrument ID: MSG Date Analyzed: 01/15/2013 11:11

GC Column: See SOP ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 340-3781/4	LC01151.d	01/15/2013 09:48
	LCSD 340-3781/5	LC01152.d	01/15/2013 10:30
34000934	340-5743-1	MB01156.d	01/16/2013 05:56

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-3781/6

Matrix: Air | Lab File ID: MB01152.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 250(mL) | Date Analyzed: 01/15/2013 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-3781/6

Matrix: Air | Lab File ID: MB01152.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 250(mL) | Date Analyzed: 01/15/2013 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND		2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 340-3781/6

Matrix: Air | Lab File ID: MB01152.d

Analysis Method: TO-15 | Date Collected:

Sample wt/vol: 250(mL) | Date Analyzed: 01/15/2013 11:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	101		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		70-130
2037-26-5	Toluene-d8 (Surr)	98		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20130115-2598.b\MB01152.d		
Lims ID:	MB	Client ID:	
Inject. Date:	15-Jan-2013 11:11:30	Dil. Factor:	1.0000
Sample Type:	MB		
Sample ID:	MB		
Misc. Info.:	340-0002598-006		
Operator:	DLK	Instrument ID:	MSG
Purge Vol:	250.000 mL	ALS Bottle#:	12
Lims Batch ID:	3781	Lims Sample ID:	6
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20130115-2598.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	15-Jan-2013 11:50:15	Calib Date:	26-Dec-2012 12:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20121226-2503.b\IC12268.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK029		

First Level Reviewer: kammererd Date: 15-Jan-2013 11:50:15

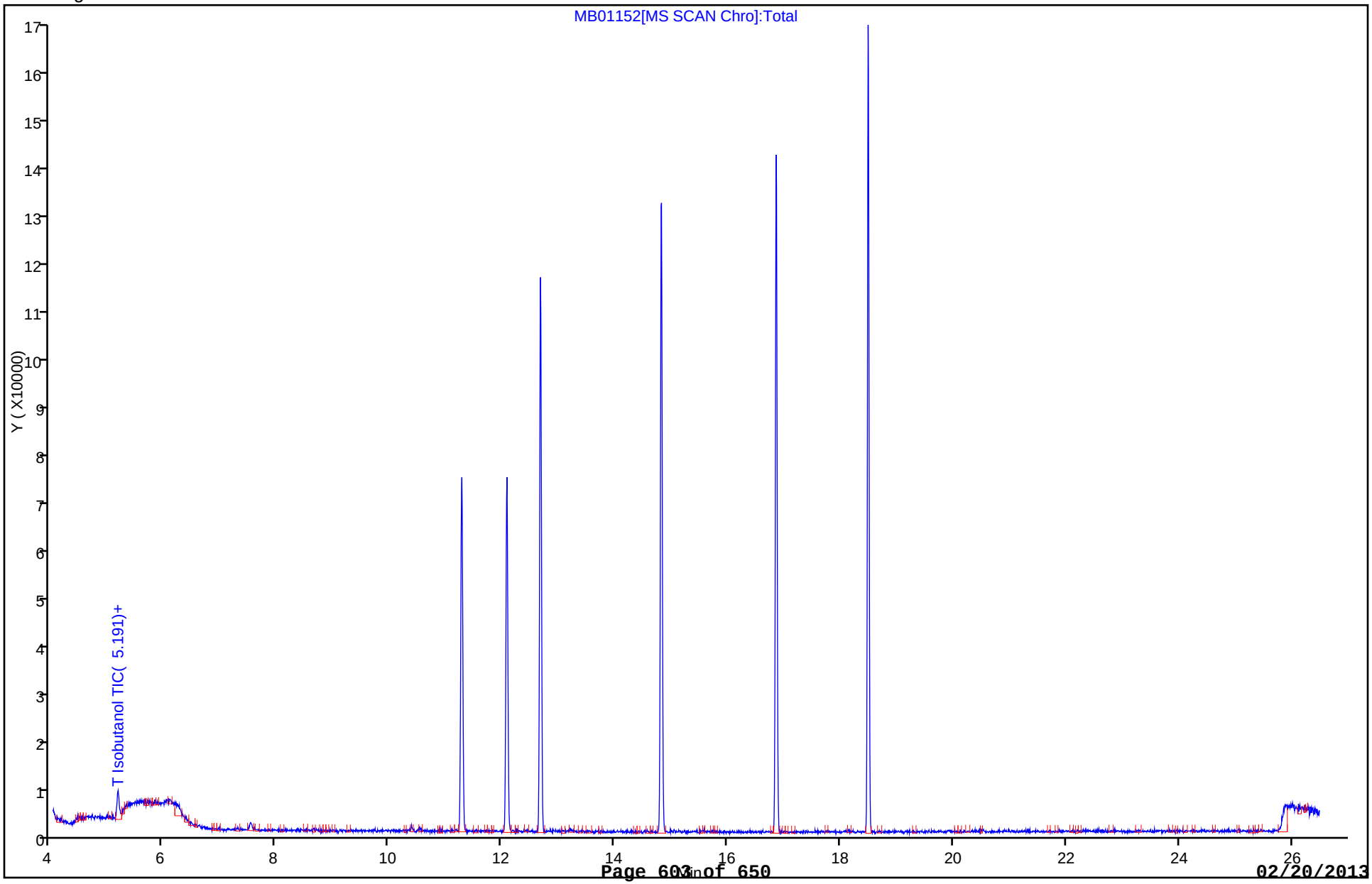
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
T 6 Isobutanol TIC	43	5.191	3.998	1.191	1	4628	0.3148	
T 15 Propane, 2-methyl TIC	43	5.191	4.660	0.528	31	4628	0.3148	
* 67 Chlorobromomethane (IS)	49	11.286	11.292	-0.006	88	58804	4.00	
$ 74 1,2-Dichloroethane-d4 (Surr)	65	12.086	12.086	0.0	0	50114	3.72	
* 80 1,4-Difluorobenzene	114	12.681	12.688	-0.007	98	87844	4.00	
$ 90 Toluene-d8 (Surr)	98	14.821	14.827	-0.006	94	92964	3.94	
* 99 Chlorobenzene-d5 (IS)	117	16.861	16.867	-0.006	96	75374	4.00	
$ 111 4-Bromofluorobenzene (Surr)	95	18.492	18.504	-0.012	73	64032	4.03	

Report Date: 15-Jan-2013 11:50:16 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSG\20130115-2598.b\MB01152.d		
Injection Date:	15-Jan-2013 11:11:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:		Instrument ID:	MSG
Lims Batch ID:	3781	Lims Sample ID:	6
Operator ID:	DLK	Purge Vol:	250.000 mL
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab File ID: BF12191.d BFB Injection Date: 12/19/2012

Instrument ID: MSG BFB Injection Time: 10:31

Analysis Batch No.: 3594

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	22.1	
75	30.0 - 66.0% of mass 95	49.5	
95	Base peak, 100% relative abundance	100.0	
96	5.0 - 9.0% of mass 95	6.5	
173	Less than 2.0% of mass 174	0.0	(0.0)1
174	50.0 - 120.0% of mass 95	78.2	
175	4.0 - 9.0 % of mass 174	5.7	(7.3)1
176	93.0 - 101.0% of mass 174	75.1	(96.1)1
177	5.0 - 9.0% of mass 176	5.0	(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
	IC 340-3594/3	IC12191.d	12/19/2012	11:42
	IC 340-3594/4	IC12192.d	12/19/2012	12:24
	IC 340-3594/5	IC12193.d	12/19/2012	13:05
	IC 340-3594/6	IC12194.d	12/19/2012	13:45
	IC 340-3594/7	IC12195.d	12/19/2012	14:26
	IC 340-3594/8	IC12196.d	12/19/2012	15:07
	IC 340-3594/9	IC12197.d	12/19/2012	15:48
	IC 340-3594/12	IC12199.d	12/19/2012	17:53
	IC 340-3594/13	IC1219A.d	12/19/2012	18:33

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab File ID: BF12261.d BFB Injection Date: 12/26/2012

Instrument ID: MSG BFB Injection Time: 06:38

Analysis Batch No.: 3635

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	22.9	
75	30.0 - 66.0% of mass 95	51.0	
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	0.4	(0.5)1
174	50.0 - 120.0% of mass 95	78.2	
175	4.0 - 9.0 % of mass 174	5.6	(7.2)1
176	93.0 - 101.0% of mass 174	75.2	(96.2)1
177	5.0 - 9.0% of mass 176	4.9	(6.5)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
	IC 340-3635/3	IC12261.d	12/26/2012	07:53
	IC 340-3635/4	IC12262.d	12/26/2012	08:34
	IC 340-3635/5	IC12263.d	12/26/2012	09:15
	IC 340-3635/6	IC12264.d	12/26/2012	09:55
	IC 340-3635/7	IC12265.d	12/26/2012	10:36
	ICIS 340-3635/8	IC12266.d	12/26/2012	11:17
	IC 340-3635/9	IC12267.d	12/26/2012	11:55
	IC 340-3635/10	IC12268.d	12/26/2012	12:36
	ICV 340-3635/11	LC12261.d	12/26/2012	13:20

FORM V
AIR - GC/MS VOA INSTRUMENT PERFORMANCE CHECK

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab File ID: BF101151.d BFB Injection Date: 01/15/2013

Instrument ID: MSG BFB Injection Time: 07:52

Analysis Batch No.: 3781

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	8.0 - 40.0% of mass 95	22.9	
75	30.0 - 66.0% of mass 95	54.0	
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	0.7	(1.0)1
174	50.0 - 120.0% of mass 95	71.8	
175	4.0 - 9.0 % of mass 174	5.3	(7.4)1
176	93.0 - 101.0% of mass 174	69.2	(96.3)1
177	5.0 - 9.0% of mass 176	4.5	(6.5)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 340-3781/3	CC01151.d	01/15/2013	09:08
	LCS 340-3781/4	LC01151.d	01/15/2013	09:48
	LCSD 340-3781/5	LC01152.d	01/15/2013	10:30
	MB 340-3781/6	MB01152.d	01/15/2013	11:11
34000934	340-5743-1	MB01156.d	01/16/2013	05:56

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

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Sample No.: CCVIS 340-3781/3 Date Analyzed: 01/15/2013 09:08

Instrument ID: MSG GC Column: See SOP ID:

Lab File ID (Standard): CC01151.d Heated Purge: (Y/N) N

Calibration ID: 756

		CBM		DFB		CBZ	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		51763	11.29	80058	12.69	87299	16.87
UPPER LIMIT		72468	11.62	112081	13.02	122219	17.20
LOWER LIMIT		31058	10.96	48035	12.36	52379	16.54
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 340-3781/4		59580	11.30	91571	12.70	96125	16.88
LCSD 340-3781/5		62728	11.31	99458	12.71	101682	16.89
MB 340-3781/6		58804	11.29	87844	12.68	75374	16.86
340-5743-1	34000934	69755	11.34	110531	12.73	91287	16.91

CBM = Chlorobromomethane (IS)
DFB = 1,4-Difluorobenzene
CBZ = Chlorobenzene-d5 (IS)

Area Limit = 60%-140% of internal standard area
RT Limit = ± 0.33 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII TO-15

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: 34000934 | Lab Sample ID: 340-5743-1

Matrix: Air | Lab File ID: MB01156.d

Analysis Method: TO-15 | Date Collected: 01/12/2013 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 01/16/2013 05:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
67-64-1	Acetone	ND		1.2	0.60
107-02-8	Acrolein	ND		2.5	0.70
107-13-1	Acrylonitrile	ND		2.0	0.40
107-05-1	Allyl chloride	ND		0.80	0.40
71-43-2	Benzene	ND		0.40	0.20
100-44-7	Benzyl chloride	ND		0.80	0.20
75-27-4	Bromodichloromethane	ND		0.30	0.15
75-25-2	Bromoform	ND		0.80	0.20
74-83-9	Bromomethane	ND		0.80	0.20
106-99-0	1,3-Butadiene	ND		0.80	0.20
106-97-8	n-Butane	ND		0.50	0.20
78-93-3	2-Butanone (MEK)	ND		0.80	0.40
75-65-0	tert-Butyl alcohol (TBA)	ND		5.0	1.5
104-51-8	n-Butylbenzene	ND		0.80	0.20
135-98-8	sec-Butylbenzene	ND		0.50	0.20
98-06-6	tert-Butylbenzene	ND		0.80	0.20
75-15-0	Carbon disulfide	ND		0.80	0.20
56-23-5	Carbon tetrachloride	ND		0.80	0.20
75-00-3	Chloroethane	ND		1.5	0.70
108-90-7	Chlorobenzene	ND		0.30	0.10
75-45-6	Chlorodifluoromethane	ND		0.80	0.20
67-66-3	Chloroform	ND		0.30	0.10
74-87-3	Chloromethane	ND		0.80	0.40
95-49-8	2-Chlorotoluene	ND		0.80	0.20
110-82-7	Cyclohexane	ND		0.50	0.20
124-48-1	Dibromochloromethane	ND		0.40	0.10
106-93-4	1,2-Dibromoethane (EDB)	ND		0.80	0.20
74-95-3	Dibromomethane	ND		0.40	0.20
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroetha ne	ND		0.40	0.15
95-50-1	1,2-Dichlorobenzene	ND		0.40	0.15
541-73-1	1,3-Dichlorobenzene	ND		0.40	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.40	0.15
75-71-8	Dichlorodifluoromethane	ND		0.40	0.15
75-34-3	1,1-Dichloroethane	ND		0.30	0.15
107-06-2	1,2-Dichloroethane	ND		0.80	0.20

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: 34000934 | Lab Sample ID: 340-5743-1

Matrix: Air | Lab File ID: MB01156.d

Analysis Method: TO-15 | Date Collected: 01/12/2013 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 01/16/2013 05:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		0.80	0.20
156-59-2	cis-1,2-Dichloroethene	ND		0.40	0.20
156-60-5	trans-1,2-Dichloroethene	ND		0.40	0.20
78-87-5	1,2-Dichloropropane	ND		0.40	0.15
10061-01-5	cis-1,3-Dichloropropene	ND		0.40	0.15
10061-02-6	trans-1,3-Dichloropropene	ND		0.40	0.15
123-91-1	1,4-Dioxane	ND		0.80	0.40
141-78-6	Ethyl acetate	ND		0.30	0.15
100-41-4	Ethylbenzene	ND		0.40	0.15
622-96-8	4-Ethyltoluene	ND		0.40	0.15
142-82-5	n-Heptane	ND		0.80	0.20
87-68-3	Hexachlorobutadiene	ND		0.80	0.20
110-54-3	n-Hexane	ND		0.80	0.20
591-78-6	2-Hexanone	ND		0.80	0.20
98-82-8	Isopropylbenzene	ND		0.80	0.20
99-87-6	4-Isopropyltoluene	ND		0.80	0.20
1634-04-4	Methyl-t-Butyl Ether (MTBE)	ND		0.80	0.20
80-62-6	Methyl methacrylate	ND		0.80	0.40
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		0.40	0.15
75-09-2	Methylene chloride	ND		0.40	0.20
98-83-9	alpha-Methylstyrene	ND		0.40	0.15
91-20-3	Naphthalene	ND	*	2.0	0.70
111-65-9	n-Octane	ND		0.40	0.15
109-66-0	n-Pentane	ND		1.0	0.40
115-07-1	Propylene	ND		0.80	0.40
103-65-1	n-Propylbenzene	ND		0.80	0.20
100-42-5	Styrene	ND		0.40	0.15
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.40	0.10
127-18-4	Tetrachloroethene	ND		0.40	0.15
109-99-9	Tetrahydrofuran	ND		2.0	0.40
108-88-3	Toluene	ND		0.40	0.15
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.40	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		2.5	0.70
71-55-6	1,1,1-Trichloroethane	ND		0.30	0.15
79-00-5	1,1,2-Trichloroethane	ND		0.40	0.15

FORM I

AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Costa Mesa | Job No.: 340-5743-1

SDG No.:

Client Sample ID: 34000934 | Lab Sample ID: 340-5743-1

Matrix: Air | Lab File ID: MB01156.d

Analysis Method: TO-15 | Date Collected: 01/12/2013 00:00

Sample wt/vol: 250(mL) | Date Analyzed: 01/16/2013 05:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: See SOP ID:

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

Analysis Batch No.: 3781 | Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-01-6	Trichloroethene	ND		0.40	0.15
75-69-4	Trichlorofluoromethane	ND		0.40	0.15
96-18-4	1,2,3-Trichloropropane	ND		0.40	0.20
95-63-6	1,2,4-Trimethylbenzene	ND		0.80	0.20
108-67-8	1,3,5-Trimethylbenzene	ND		0.40	0.15
540-84-1	2,2,4-Trimethylpentane	ND		0.50	0.20
108-05-4	Vinyl acetate	ND		0.80	0.20
593-60-2	Vinyl bromide	ND		0.80	0.40
75-01-4	Vinyl chloride	ND		0.40	0.15
179601-23-1	m,p-Xylene	ND		0.80	0.20
95-47-6	o-Xylene	ND		0.40	0.15

CAS NO.	SURROGATE	%REC	Q	LIMITS
460-00-4	4-Bromofluorobenzene (Surr)	98		70-130
17060-07-0	1,2-Dichloroethane-d4 (Surr)	91		70-130
2037-26-5	Toluene-d8 (Surr)	95		70-130

TestAmerica Costa Mesa
Target Compound Quantitation Report

Data File:	\\Lachrom\ChromData\MSG\20130115-2598.b\MB01156.d		
Lims ID:	340-5743-A-1	Client ID:	34000934
Inject. Date:	16-Jan-2013 05:56:30	Dil. Factor:	1.0000
Sample Type:	Client		
Sample ID:	340-5743-A-1		
Misc. Info.:	340-0002598-030		
Operator:	DLK	Instrument ID:	MSG
Purge Vol:	250.000 mL	ALS Bottle#:	5
Lims Batch ID:	3781	Lims Sample ID:	30
Detector:	MS SCAN		
Method:	\\Lachrom\ChromData\MSG\20130115-2598.b\TO-15_MSG.m		
Method Label:	TO-15/TO-14A		
Last Update:	16-Jan-2013 10:35:35	Calib Date:	26-Dec-2012 12:36:30
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\\Lachrom\ChromData\MSG\20121226-2503.b\IC12268.d		
Limit Group:	TO-15-TO-15_MOD_ICAL		
Integrator:	RTE	ID Type:	Deconvolution ID
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm
Process Host:	XAWRK016		

First Level Reviewer: kammererd Date: 16-Jan-2013 10:35:35

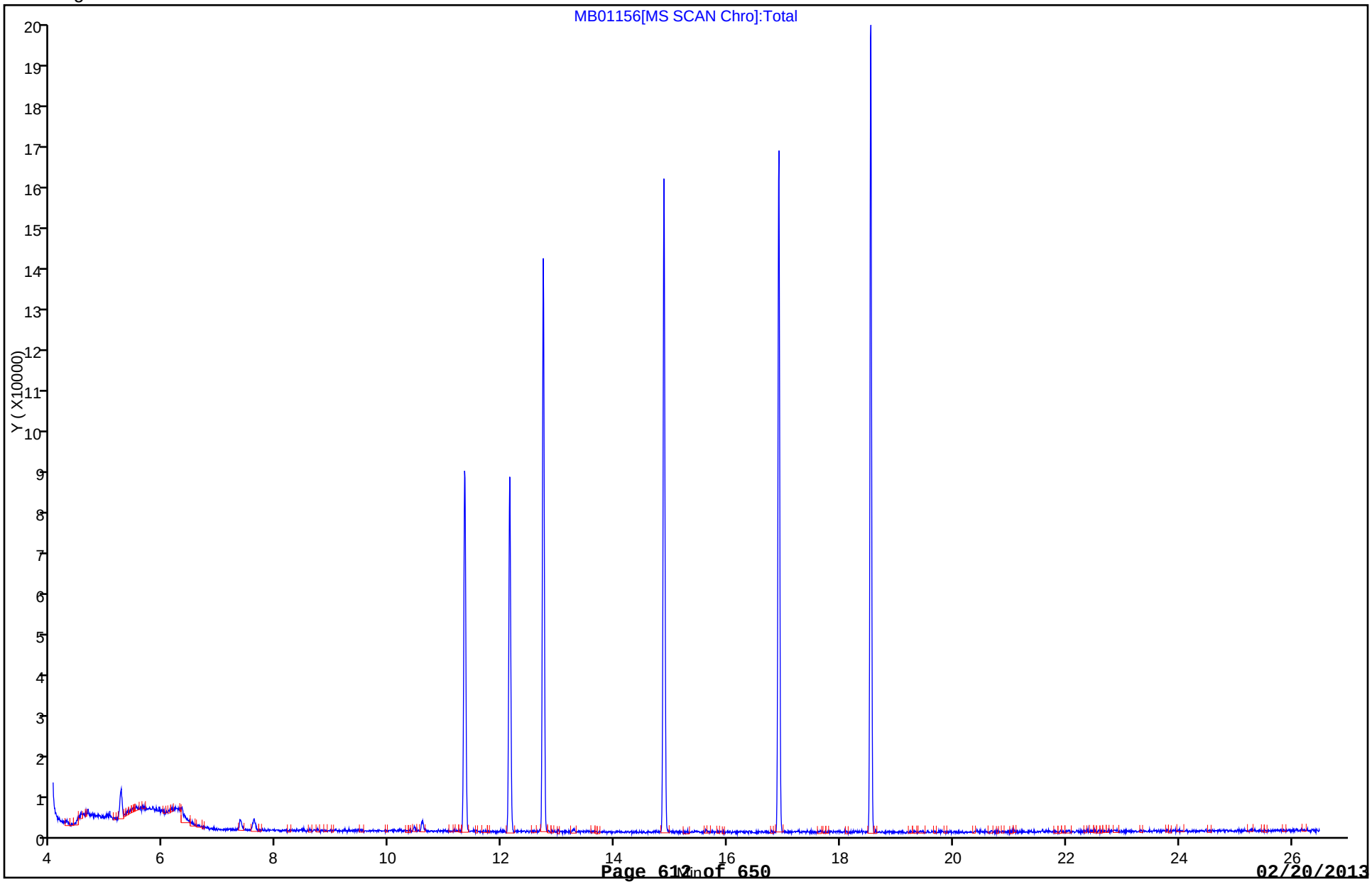
Compound	Sig	RT	ADJ RT	DLT RT	Q	Response	On-Col Amt ppb v/v	Flags
* 67 Chlorobromomethane (IS)	49	11.336	11.292	0.044	89	69755	4.00	
$ 74 1,2-Dichloroethane-d4 (Surr)	65	12.136	12.086	0.050	0	58050	3.63	
* 80 1,4-Difluorobenzene	114	12.731	12.688	0.043	98	110531	4.00	
$ 90 Toluene-d8 (Surr)	98	14.870	14.827	0.043	95	112473	3.78	
* 99 Chlorobenzene-d5 (IS)	117	16.910	16.867	0.043	96	91287	4.00	
$ 111 4-Bromofluorobenzene (Surr)	95	18.535	18.504	0.031	76	75687	3.93	

Report Date: 16-Jan-2013 10:35:35 Chrom Revision: 2.0 22-Oct-2012 16:30:48

TestAmerica Costa Mesa

Data File:	\\Lachrom\ChromData\MSG\20130115-2598.b\MB01156.d		
Injection Date:	16-Jan-2013 05:56:30	Limit Group:	TO-15-TO-15_MOD_ICAL
Client ID:	34000934	Instrument ID:	MSG
Lims Batch ID:	3781	Lims Sample ID:	30
Operator ID:	DLK	Purge Vol:	250.000 mL
Column Type:	RTX-Volatiles	Column Dia:	0.32 mm

Y Scaling:



FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3594

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/19/2012 11:42 Calibration End Date: 12/19/2012 18:33 Calibration ID: 748

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-3594/9	IC12197.d
Level 2	IC 340-3594/3	IC12191.d
Level 3	IC 340-3594/4	IC12192.d
Level 4	IC 340-3594/5	IC12193.d
Level 5	IC 340-3594/6	IC12194.d
Level 6	IC 340-3594/7	IC12195.d
Level 7	IC 340-3594/8	IC12196.d
Level 8	IC 340-3594/12	IC12199.d
Level 9	IC 340-3594/13	IC1219A.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 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Ethane, 1,1,1,2-tetrafluoro-	+++++ 0.6792	0.5579 0.7004	0.6823 0.7023	0.6603 0.7245	0.6691	Ave		0.6720				7.5		30.0			
Propane	+++++ 0.3044	+++++ 0.3165	0.8850 0.2942	0.3478 0.2921	0.4050	Lin1	0.1843	0.2873							0.9930		0.9900
1,1-Difluoroethane	+++++ 0.7632	0.6625 0.7480	0.7426 0.7378	2.7589 0.7670	0.9078	Lin	0.3047	0.7503							0.9970		0.9900
Isobutane	+++++ 1.9023	1.8636 1.9303	1.9960 1.7605	1.8699 1.8313	1.8933	Ave		1.8809				3.7		30.0			
2-Propanol	+++++ 1.2511	+++++ 1.3050	+++++ 1.4430	0.8476 1.4772	1.1337	Ave		1.2429				19.0		30.0			
Dichlorofluoromethane	+++++ 2.0881	2.0154 2.0035	2.0961 1.7858	2.0303 1.8842	2.0250	Ave		1.9910				5.3		30.0			
1,1-Dichloro-1-fluoroethane	+++++ 1.5692	+++++ 1.6000	1.5812 1.6260	1.5703 1.7212	1.5389	Ave		1.6010				3.7		30.0			
Ethanol	+++++ 0.1380	0.1123 0.1467	0.1252 0.1386	0.1316 0.1413	0.1315	Ave		0.1331				8.1		30.0			
Iodomethane	+++++ 1.3654	1.3775 1.4157	1.4464 1.5575	1.2901 1.7040	1.3141	Ave		1.4338				9.6		30.0			
Acetonitrile	+++++ 0.6557	0.4681 0.6645	0.5822 0.6600	0.6104 0.6838	0.6409	Ave		0.6207				11.0		30.0			
tert-Butyl alcohol (TBA)	+++++ 1.2733	0.9655 1.4420	1.1018 1.6269	1.1188 1.8779	1.2004	Ave		1.3258				23.0		30.0			
Ethyl-t-butyl ether (ETBE)	+++++ 2.1317	1.8989 2.2337	2.0487 2.3722	2.0048 2.5857	2.0314	Ave		2.1634				10.0		30.0			
2,2-Dichloropropane	+++++ 1.0268	0.3868 1.0987	0.9010 1.2137	0.8682 1.3354	0.9442	Ave		0.9719				29.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3594

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/19/2012 11:42 Calibration End Date: 12/19/2012 18:33 Calibration ID: 748

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 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5		B	M1	M2								
Isopropyl Ether (DIPE)	+++++ 2.7016	2.5147 2.7781	2.6187 2.8794	2.5802 3.1033	2.6177	Ave		2.7242				7.1		30.0			
trans-1,4-Dichloro-2-butene	+++++ 0.0572	+++++ 0.1046	+++++ 0.0911	+++++ 0.1065	0.0500	Lin1	-0.170	0.1083							0.9900		0.9900
1,1-Dichloropropene	+++++ 1.0726	0.9734 1.1037	1.0694 1.1448	1.0108 1.2414	1.0397	Ave		1.0820				7.7		30.0			
n-Butanol	+++++ 0.5201	+++++ 0.6149	0.3877 0.7343	0.3873 0.8751	0.4626	Lin	-6.511	0.8790							0.9920		0.9900
Tert-amyl-methyl ether (TAME)	+++++ 0.8220	0.3503 0.8585	0.7631 0.8898	0.7731 0.9801	0.7933	Ave		0.7788				24.0		30.0			
1,3-Dichloropropane	+++++ 0.6647	+++++ 0.6807	0.6436 0.6912	0.6146 0.7654	0.6399	Ave		0.6715				7.3		30.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3986	0.2369 0.4291	0.3034 0.5126	0.3322 0.5966	0.3572	Ave		0.3958				29.0		30.0			
Cyclohexanone	+++++ 0.5283	+++++ 0.5958	0.4445 0.5855	0.4528 0.6639	0.4996	Ave		0.5386				15.0		30.0			
Bromobenzene	+++++ 0.5524	0.4772 0.6098	0.5294 0.6238	0.4927 0.7366	0.5255	Ave		0.5684				15.0		30.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.4473	0.1815 0.4770	0.2761 0.5748	0.3058 0.7182	0.3698	Ave		0.4188				41.0	*	30.0			
1,2-Dichloroethane-d4 (Surr)	+++++ 1.0531	0.9808 1.1039	0.9925 1.1482	0.9969 1.3106	1.0190	Ave		1.0756				10.0		30.0			
Toluene-d8 (Surr)	+++++ 1.0232	0.9986 1.0166	1.0142 1.0057	1.0247 1.0292	1.0085	Ave		1.0151				1.0		30.0			
4-Bromofluorobenzene (Surr)	+++++ 0.8521	0.8049 0.8620	0.8196 0.8274	0.7966 0.8588	0.8380	Ave		0.8324				2.9		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3594

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/19/2012 11:42 Calibration End Date: 12/19/2012 18:33 Calibration ID: 748

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-3594/9	IC12197.d
Level 2	IC 340-3594/3	IC12191.d
Level 3	IC 340-3594/4	IC12192.d
Level 4	IC 340-3594/5	IC12193.d
Level 5	IC 340-3594/6	IC12194.d
Level 6	IC 340-3594/7	IC12195.d
Level 7	IC 340-3594/8	IC12196.d
Level 8	IC 340-3594/12	IC12199.d
Level 9	IC 340-3594/13	IC1219A.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
Ethane, 1,1,1,2-tetrafluoro-	CBM	Ave	+++++ 22866	838 47857	1969 118871	3714 231709	11644	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
Propane	CBM	Lin1	+++++ 10248	+++++ 21626	2554 49785	1956 93420	7049	+++++ 5.00	+++++ 10.0	0.400 20.0	0.800 40.0	2.50
1,1-Difluoroethane	CBM	Lin	+++++ 25695	995 51110	2143 124866	15517 245315	15798	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
Isobutane	CBM	Ave	+++++ 64045	2799 131886	5760 297971	10517 585720	32949	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
2-Propanol	CBM	Ave	+++++ 42120	+++++ 89165	+++++ 244229	4767 472443	19730	+++++ 5.00	+++++ 10.0	+++++ 20.0	0.800 40.0	2.50
Dichlorofluoromethane	CBM	Ave	+++++ 70300	3027 136887	6049 302244	11419 602622	35242	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
1,1-Dichloro-1-fluoroethane	CBM	Ave	+++++ 52832	+++++ 109319	4563 275195	8832 550503	26781	+++++ 5.00	+++++ 10.0	0.400 20.0	0.800 40.0	2.50
Ethanol	CBM	Ave	+++++ 23227	843 50108	1807 117289	3702 225964	11441	+++++ 25.0	1.00 50.0	2.00 100	4.00 200	12.5
Iodomethane	CBM	Ave	+++++ 45969	2069 96731	4174 263606	7256 544985	22870	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
Acetonitrile	CBM	Ave	+++++ 22076	703 45404	1680 111706	3433 218684	11153	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
tert-Butyl alcohol (TBA)	CBM	Ave	+++++ 214345	7251 492640	15898 1376764	31462 3003032	104456	+++++ 25.0	1.00 50.0	2.00 100	4.00 200	12.5
Ethyl-t-butyl ether (ETBE)	CBM	Ave	+++++ 71770	2852 152619	5912 401499	11276 826995	35353	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
2,2-Dichloropropane	CBM	Ave	+++++ 34571	581 75071	2600 205426	4883 427110	16432	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
Isopropyl Ether (DIPE)	CBM	Ave	+++++ 90955	3777 189815	7557 487343	14512 992531	45556	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3594

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/19/2012 11:42 Calibration End Date: 12/19/2012 18:33 Calibration ID: 748

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5
trans-1,4-Dichloro-2-butene	CBZ	Lin1	+++++ 3753	+++++ 14033	+++++ 31125	+++++ 69699	1689	+++++ 5.00	+++++ 10.0	+++++ 20.0	+++++ 40.0	2.50
1,1-Dichloropropene	CBM	Ave	+++++ 36111	1462 75407	3086 193763	5685 397032	18094	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
n-Butanol	CBM	Lin	+++++ 87547	+++++ 210058	5594 621380	10891 1399364	40257	+++++ 25.0	+++++ 50.0	2.00 100	4.00 200	12.5
Tert-amyl-methyl ether (TAME)	DFB	Ave	+++++ 63051	1242 134840	5112 360766	9863 755880	31304	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
1,3-Dichloropropane	CBZ	Ave	+++++ 43633	+++++ 91320	3702 236109	6764 500723	21618	+++++ 5.00	+++++ 10.0	0.400 20.0	0.800 40.0	2.50
1,1,1,2-Tetrachloroethane	CBZ	Ave	+++++ 26169	727 57557	1745 175091	3656 390271	12067	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
Cyclohexanone	CBZ	Ave	+++++ 34678	+++++ 79929	2557 199985	4983 434329	16879	+++++ 5.00	+++++ 10.0	0.400 20.0	0.800 40.0	2.50
Bromobenzene	CBZ	Ave	+++++ 36263	1464 81806	3045 213082	5422 481849	17753	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
1,2-Dibromo-3-Chloropropane	CBZ	Ave	+++++ 29363	557 63994	1588 196351	3365 469864	12494	+++++ 5.00	0.200 10.0	0.400 20.0	0.800 40.0	2.50
1,2-Dichloroethane-d4 (Surr)	CBM	Ave	+++++ 28364	29461 30170	28643 38865	28036 41917	28373	+++++ 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00
Toluene-d8 (Surr)	DFB	Ave	+++++ 62789	70803 63868	67943 81558	65365 79374	63669	+++++ 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00
4-Bromofluorobenzene (Surr)	CBZ	Ave	+++++ 44748	49390 46252	47143 56526	43835 56181	45295	+++++ 4.00	4.00 4.00	4.00 4.00	4.00 4.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
Lin1 = Linear 1/conc ISTD

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-3635/3	IC12261.d
Level 2	IC 340-3635/4	IC12262.d
Level 3	IC 340-3635/5	IC12263.d
Level 4	IC 340-3635/6	IC12264.d
Level 5	IC 340-3635/7	IC12265.d
Level 6	ICIS 340-3635/8	IC12266.d
Level 7	IC 340-3635/9	IC12267.d
Level 8	IC 340-3635/10	IC12268.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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Methanol	0.3360 0.2469	+++++ 0.2129	+++++ 0.0005	0.2467	0.2342	None											
Propylene	0.5017 0.5496	0.5065 0.5178	0.5896 0.5307	0.5136	0.5403	Ave		0.5312				5.4		30.0			
Chlorodifluoromethane	1.1898 1.1538	1.1415 1.0921	1.2125 1.1328	1.1570	1.1743	Ave		1.1567				3.2		30.0			
Dichlorodifluoromethane	1.4512 1.5598	1.4990 1.4830	1.5548 1.5639	1.5241	1.5340	Ave		1.5212				2.7		30.0			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	2.0904 2.1696	2.1193 2.0455	2.3026 2.0198	2.2121	2.1900	Ave		2.1437				4.4		30.0			
Chloromethane	0.9317 0.9279	0.9758 0.8652	1.0160 0.8252	0.9614	0.9422	Ave		0.9307				6.5		30.0			
n-Butane	1.5813 1.5823	1.6181 1.4769	1.7357 1.4061	1.6094	1.5945	Ave		1.5755				6.2		30.0			
Vinyl chloride	0.8522 0.9505	0.9525 0.8946	0.9843 0.8684	0.9599	0.9558	Ave		0.9273				5.2		30.0			
1,3-Butadiene	+++++ 0.8295	+++++ 0.7748	0.8650 0.7292	0.8397	0.8307	Ave		0.8115				6.2		30.0			
Bromomethane	+++++ 0.7247	+++++ 0.6710	0.7887 0.6455	0.7594	0.7230	Ave		0.7187				7.4		30.0			
Chloroethane	0.3997 0.4928	0.4625 0.4508	0.4966 0.4346	0.4915	0.4997	Ave		0.4660				7.7		30.0			
Vinyl bromide	0.4337 0.5184	0.5121 0.4916	0.4498 0.5045	0.5061	0.5177	Ave		0.4917				6.6		30.0			
Trichlorofluoromethane	1.4326 1.4980	1.4661 1.4413	1.5004 1.5011	1.4824	1.4861	Ave		1.4760				1.8		30.0			
n-Pentane	1.3076 1.3708	1.2666 1.3014	1.2917 1.3245	1.3271	1.3428	Ave		1.3166				2.4		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 0.2225	0.1743 0.2296	0.2059 0.2332	0.2236	0.2347	Ave		0.2177				9.8		30.0			
Acetone	1.5242 1.1982	1.3790 1.0731	1.3060 1.0743	1.1599	1.1695	Ave		1.2355				13.0		30.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.5687 0.6949	0.6827 0.6639	0.6612 0.7130	0.6832	0.6874	Ave		0.6694				6.6		30.0			
1,1-Dichloroethene	0.9293 1.0013	0.9234 0.9549	0.9558 1.0018	0.9600	0.9653	Ave		0.9615				3.0		30.0			
Methyl-t-Butyl Ether (MTBE)	+++++ 1.2850	1.0942 1.2680	1.2017 1.3616	1.1880	1.2286	Ave		1.2324				6.8		30.0			
Allyl chloride	+++++ 0.5936	+++++ 0.5542	0.6041 0.5606	0.5385	0.5610	Ave		0.5687				4.4		30.0			
Methylene chloride	0.9749 0.7871	0.8772 0.7427	0.9391 0.7639	0.7944	0.7931	Ave		0.8340				10.0		30.0			
Carbon disulfide	1.3318 1.3583	1.3856 1.2953	1.3694 1.3442	1.3452	1.3524	Ave		1.3478				2.0		30.0			
Acrylonitrile	0.3299 0.5293	0.4337 0.5004	0.4737 0.5196	0.4957	0.5083	Ave		0.4738				14.0		30.0			
trans-1,2-Dichloroethene	+++++ 0.4973	0.4676 0.4763	0.4863 0.5019	0.4914	0.4851	Ave		0.4866				2.4		30.0			
cis-1,2-Dichloroethene	+++++ 0.5213	0.4755 0.5047	0.5274 0.5454	0.5001	0.5104	Ave		0.5121				4.3		30.0			
n-Hexane	0.9216 1.0502	0.9110 1.0155	0.9861 1.0881	1.0122	1.0343	Ave		1.0023				6.1		30.0			
Vinyl acetate	1.2877 1.9799	1.3687 2.0195	1.6439 2.2455	1.6429	1.7838	Ave		1.7465				19.0		30.0			
1,1-Dichloroethane	1.0656 1.1826	1.0972 1.1644	1.1084 1.2567	1.1383	1.1518	Ave		1.1456				5.1		30.0			
2-Butanone (MEK)	0.1729 0.2645	0.1945 0.2498	0.2615 0.2627	0.2540	0.2535	Ave		0.2392				15.0		30.0			
Ethyl acetate	1.3350 1.7540	1.3862 1.7603	1.4887 1.8924	1.5861	1.6770	Ave		1.6099				12.0		30.0			
Chloroform	1.1204 1.2192	1.1372 1.1684	1.1928 1.2515	1.1667	1.1808	Ave		1.1796				3.6		30.0			
Tetrahydrofuran	0.7067 0.8787	0.7546 0.8616	0.8317 0.8823	0.8279	0.8595	Ave		0.8254				7.6		30.0			
1,1,1-Trichloroethane	0.8317 1.0942	0.8928 1.0992	0.9237 1.2171	0.9567	1.0239	Ave		1.0049				13.0		30.0			
Cyclohexane	0.9499 1.0995	0.9964 1.0691	1.0706 1.1452	1.0358	1.0689	Ave		1.0544				5.7		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2,2,4-Trimethylpentane	3.3488 3.8007	3.4147 3.7957	3.4849 4.2813	3.5578	3.6641	Ave		3.6685				8.1		30.0			
Carbon tetrachloride	+++++ 0.5700	+++++ 0.6015	0.3907 0.7267	0.4278	0.4669	Ave		0.5306				24.0		30.0			
1,2-Dichloroethane	0.4260 0.5283	0.4538 0.5158	0.5243 0.5649	0.5014	0.5034	Ave		0.5022				8.7		30.0			
Benzene	0.8408 0.9760	0.8926 0.9622	0.9306 1.0908	0.9073	0.9269	Ave		0.9409				7.8		30.0			
n-Heptane	0.6943 0.8820	0.7447 0.8877	0.8375 0.9992	0.8000	0.8183	Ave		0.8330				11.0		30.0			
Trichloroethene	0.3018 0.3583	0.3028 0.3587	0.3363 0.4204	0.3227	0.3363	Ave		0.3422				11.0		30.0			
1,2-Dichloropropane	+++++ 0.4386	0.3402 0.4462	0.4113 0.5277	0.3920	0.3997	Ave		0.4222				14.0		30.0			
Methyl methacrylate	0.3206 0.5312	0.3717 0.5633	0.4182 +++++	0.4425	0.4718	Ave		0.4456				19.0		30.0			
1,4-Dioxane	0.1306 0.2107	0.1734 0.2275	0.1959 0.2644	0.1996	0.2023	Ave		0.2006				19.0		30.0			
Bromodichloromethane	0.5670 0.7623	0.5867 0.8010	0.6688 0.9753	0.6478	0.6855	Ave		0.7118				19.0		30.0			
Dibromomethane	0.2254 0.3096	0.2552 0.3226	0.2848 0.4066	0.2834	0.2868	Ave		0.2968				18.0		30.0			
4-Methyl-2-pentanone (MIBK)	0.8288 1.1971	0.8845 1.1868	1.0479 1.3381	1.0425	1.0931	Ave		1.0774				16.0		30.0			
cis-1,3-Dichloropropene	0.3193 0.5787	0.3680 0.5898	0.4160 0.6913	0.4666	0.5082	Ave		0.4922				25.0		30.0			
n-Octane	1.0163 1.2994	1.0407 1.3312	1.1472 1.5312	1.1331	1.1876	Ave		1.2108				14.0		30.0			
Toluene	0.9994 1.1951	1.0133 1.2094	1.1382 1.4367	1.0528	1.0878	Ave		1.1416				12.0		30.0			
trans-1,3-Dichloropropene	0.1948 0.3761	0.2294 0.3717	0.2798 0.3898	0.3010	0.3359	Ave		0.3098				23.0		30.0			
1,1,2-Trichloroethane	0.3449 0.4288	0.3728 0.4305	0.4327 0.4789	0.4054	0.4098	Ave		0.4130				9.9		30.0			
2-Hexanone	0.3761 0.5927	0.4343 0.5984	0.5241 0.6850	0.4950	0.5273	Ave		0.5291				18.0		30.0			
Tetrachloroethene	0.4706 0.5644	0.4907 0.5713	0.4920 0.6845	0.5183	0.5261	Ave		0.5397				13.0		30.0			
Dibromochloromethane	0.4733 0.6732	0.4983 0.6919	0.5574 0.8133	0.5716	0.6126	Ave		0.6114				18.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromoethane (EDB)	0.4759 0.6539	0.5378 0.6413	0.5971 0.7149	0.5960	0.6181	Ave		0.6044				12.0		30.0			
Chlorobenzene	0.8270 0.9137	0.8534 0.8970	0.9256 0.9975	0.8621	0.8829	Ave		0.8949				5.9		30.0			
Ethylbenzene	1.4256 1.7148	1.5116 1.7006	1.6832 1.9166	1.5887	1.6327	Ave		1.6467				9.0		30.0			
m,p-Xylene	1.1047 1.5417	1.1960 1.6420	1.3241 2.0029	1.3048	1.3693	Ave		1.4357				20.0		30.0			
o-Xylene	1.1168 1.5268	1.1869 1.5642	1.3631 1.8531	1.3001	1.3552	Ave		1.4083				17.0		30.0			
Styrene	0.7312 1.0885	0.8218 1.1277	0.9598 1.3761	0.9370	0.9746	Ave		1.0021				20.0		30.0			
Bromoform	+++++ 0.6641	+++++ 0.7108	0.4427 0.9287	0.4863	0.5528	Ave		0.6309				28.0		30.0			
Isopropylbenzene	1.5406 2.0984	1.6657 2.0520	1.7880 2.4618	1.8523	1.9116	Ave		1.9213				15.0		30.0			
1,1,2,2-Tetrachloroethane	0.8235 1.0793	0.9127 1.0295	1.0443 1.1680	0.9588	1.0021	Ave		1.0023				11.0		30.0			
1,2,3-Trichloropropane	0.1900 0.3117	0.2775 0.2885	0.2745 0.3203	0.2816	0.2878	Ave		0.2790				14.0		30.0			
n-Nonane	1.2175 1.7920	1.3372 1.7730	1.4873 1.8569	1.5701	1.6709	Ave		1.5881				14.0		30.0			
n-Propylbenzene	2.1108 2.8067	2.2307 2.6928	2.3667 3.1590	2.4501	2.5402	Ave		2.5446				13.0		30.0			
4-Ethyltoluene	1.6636 2.0303	1.7095 1.9514	1.8975 2.3902	1.7856	1.8643	Ave		1.9115				12.0		30.0			
1,3,5-Trimethylbenzene	1.1237 1.7474	1.3094 1.7879	1.4910 2.1970	1.4703	1.5392	Ave		1.5832				21.0		30.0			
2-Chlorotoluene	0.3426 0.4738	0.3849 0.4625	0.4058 0.5458	0.4066	0.4238	Ave		0.4307				14.0		30.0			
alpha-Methylstyrene	0.4843 0.8301	0.6424 0.8171	0.6995 0.9681	0.7369	0.7712	Ave		0.7437				19.0		30.0			
tert-Butylbenzene	0.8923 1.4228	1.0837 1.4135	1.2485 1.6458	1.2385	1.2965	Ave		1.2802				18.0		30.0			
1,2,4-Trimethylbenzene	1.1827 1.7808	1.3567 1.7736	1.5705 2.1710	1.5222	1.5785	Ave		1.6170				19.0		30.0			
sec-Butylbenzene	0.2724 0.4749	0.3604 0.4756	0.3786 0.5590	0.4130	0.4367	Ave		0.4213				21.0		30.0			
4-Isopropyltoluene	1.3715 2.1166	1.5436 2.1984	1.6974 2.7270	1.7838	1.9143	Ave		1.9191				22.0		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

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 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,3-Dichlorobenzene	0.6721 0.9986	0.7901 0.9883	0.9306 1.1911	0.8710	0.9024	Ave		0.9180				17.0		30.0			
1,4-Dichlorobenzene	0.6387 1.0220	0.7961 1.0097	0.9300 1.2243	0.8709	0.9103	Ave		0.9252				19.0		30.0			
Benzyl chloride	+++++ 1.2437	0.3499 1.4403	0.4809 +++++	0.6054	0.8408	Lin	-1.804	1.4832							0.9900		0.9900
n-Butylbenzene	1.3035 2.2558	1.6579 2.3304	1.9243 2.8080	1.9036	2.0530	Ave		2.0296				22.0		30.0			
1,2-Dichlorobenzene	0.6054 0.9530	0.7246 0.9521	0.8890 1.1301	0.8302	0.8651	Ave		0.8687				18.0		30.0			
Naphthalene	+++++ 1.8649	+++++ 1.7287	1.8631 2.4365	1.3513	1.7735	Ave		1.8363				19.0		30.0			
1,2,4-Trichlorobenzene	+++++ 0.7302	+++++ 0.7492	0.6377 1.1018	0.5171	0.6545	Ave		0.7318				27.0		30.0			
Hexachlorobutadiene	+++++ 0.6328	+++++ 0.7013	0.5393 +++++	0.4661	0.5591	Ave		0.5797				16.0		30.0			
1,2,3-Trichlorobenzene	+++++ 0.6518	+++++ 0.6319	0.6221 0.9628	0.4432	0.6150	Ave		0.6545				26.0		30.0			
1,2-Dichloroethane-d4 (Surr)	0.8468 0.9105	0.8379 0.9975	0.8697 1.1089	0.8673	0.8879	Ave		0.9158				10.0		30.0			
Toluene-d8 (Surr)	1.0399 1.1103	1.0445 1.0918	1.0639 1.1395	1.0587	1.0571	Ave		1.0757				3.2		30.0			
4-Bromofluorobenzene (Surr)	0.8127 0.8688	0.8176 0.8465	0.8416 0.8616	0.8488	0.8504	Ave		0.8435				2.3		30.0			

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 340-3635/3	IC12261.d
Level 2	IC 340-3635/4	IC12262.d
Level 3	IC 340-3635/5	IC12263.d
Level 4	IC 340-3635/6	IC12264.d
Level 5	IC 340-3635/7	IC12265.d
Level 6	ICIS 340-3635/8	IC12266.d
Level 7	IC 340-3635/9	IC12267.d
Level 8	IC 340-3635/10	IC12268.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
Methanol	CBM	None	833 31634	+++++ 58488	+++++ 337	7343	14120	0.200 10.0	+++++ 20.0	+++++ 40.0	2.50	5.00
Propylene	CBM	Ave	1418 80281	2825 162176	5563 378728	17429	37137	0.228 11.4	0.456 22.8	0.800 45.6	2.85	5.70
Chlorodifluoromethane	CBM	Ave	3127 156705	5920 318041	11441 751737	36509	75043	0.212 10.6	0.424 21.2	0.800 42.4	2.65	5.30
Dichlorodifluoromethane	CBM	Ave	3598 199857	7334 407423	14670 979069	45369	92483	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,2-Dichloro-1,1,2,2-tetrafluoroeth ane	CBM	Ave	5183 278001	10369 561952	21726 1264453	65851	132027	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Chloromethane	CBM	Ave	2310 118888	4774 237706	9587 516593	28619	56801	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
n-Butane	CBM	Ave	4195 216938	8471 434152	16377 941905	51263	102858	0.214 10.7	0.428 21.4	0.800 42.8	2.68	5.35
Vinyl chloride	CBM	Ave	2113 121786	4660 245782	9287 543682	28575	57625	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,3-Butadiene	CBM	Ave	+++++ 106290	+++++ 212849	8162 456480	24995	50079	+++++ 10.0	+++++ 20.0	0.800 40.0	2.50	5.00
Bromomethane	CBM	Ave	+++++ 92854	+++++ 184346	7442 404078	22607	43586	+++++ 10.0	+++++ 20.0	0.800 40.0	2.50	5.00
Chloroethane	CBM	Ave	991 63147	2263 123836	4686 272046	14632	30127	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Vinyl bromide	CBM	Ave	957 59121	2230 120194	4244 281106	13409	27778	0.178 8.90	0.356 17.8	0.800 35.6	2.23	4.45
Trichlorofluoromethane	CBM	Ave	3552 191939	7173 395969	14157 939770	44128	89595	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
n-Pentane	CBM	Ave	3242 175647	6197 357523	12188 829189	39505	80956	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Acrolein	CBM	Ave	+++++ 28507	853 63087	1943 146001	6655	14152	+++++ 10.0	0.400 20.0	0.800 40.0	2.50	5.00

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
Acetone	CBM	Ave	3779 153528	6747 294822	12323 672551	34528	70506	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,1,2-Trichloro-1,2,2-trifluoroetha ne	CBM	Ave	1410 89041	3340 182400	6239 446355	20338	41440	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,1-Dichloroethene	CBM	Ave	2304 128297	4518 262328	9019 627171	28578	58196	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Methyl-t-Butyl Ether (MTBE)	CBM	Ave	+++++ 176182	5728 372734	11339 912052	37841	79251	+++++ 10.7	0.428 21.4	0.800 42.8	2.68	5.35
Allyl chloride	CBM	Ave	+++++ 83662	+++++ 167477	5700 386078	17632	37202	+++++ 11.0	+++++ 22.0	0.800 44.0	2.75	5.50
Methylene chloride	CBM	Ave	2659 110932	4721 224437	8861 526075	26012	52596	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
Carbon disulfide	CBM	Ave	3302 174036	6779 355852	12921 841511	40044	81531	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Acrylonitrile	CBM	Ave	818 67819	2122 137484	4470 325280	14756	30644	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
trans-1,2-Dichloroethene	CBM	Ave	+++++ 63726	2288 130854	4589 314196	14629	29244	+++++ 10.0	0.400 20.0	0.800 40.0	2.50	5.00
cis-1,2-Dichloroethene	CBM	Ave	+++++ 70809	2466 146974	4976 361954	15779	32619	+++++ 10.6	0.424 21.2	0.800 42.4	2.65	5.30
n-Hexane	CBM	Ave	2285 134562	4457 278975	9304 681168	30131	62353	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Vinyl acetate	CBM	Ave	3512 279061	7366 610294	15511 1546334	53797	118293	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
1,1-Dichloroethane	CBM	Ave	2642 151526	5368 319888	10458 786746	33885	69439	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
2-Butanone (MEK)	CBM	Ave	463 36608	1028 74109	2467 177646	8165	16503	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
Ethyl acetate	CBM	Ave	3310 224747	6782 483594	14047 1184690	47214	101102	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Chloroform	CBM	Ave	2778 156213	5564 321003	11255 783501	34731	71185	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Tetrahydrofuran	CBM	Ave	1910 122726	4024 258002	7848 602042	26863	56479	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
1,1,1-Trichloroethane	CBM	Ave	2062 140207	4368 301986	8716 761951	28480	61729	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Cyclohexane	CBM	Ave	2520 150737	5216 314260	10102 767103	32993	68953	0.214 10.7	0.428 21.4	0.800 42.8	2.68	5.35
2,2,4-Trimethylpentane	CBM	Ave	8303 486994	16707 1042789	32882 2680234	105909	220898	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Carbon tetrachloride	DFB	Ave	+++++ 136292	+++++ 305729	6774 810346	24648	54382	+++++ 10.8	+++++ 21.6	0.800 43.2	2.70	5.40

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
1,2-Dichloroethane	DFB	Ave	2158 126323	4456 262162	9091 629877	28889	58641	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
Benzene	DFB	Ave	4181 229048	8602 480003	16136 1193825	51308	105971	0.212 10.6	0.424 21.2	0.800 42.4	2.65	5.30
n-Heptane	DFB	Ave	3550 212842	7380 455393	14522 1124473	46519	96199	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
Trichloroethene	DFB	Ave	1543 86458	3001 184021	5831 473135	18766	39536	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
1,2-Dichloropropane	DFB	Ave	+++++ 104880	3340 226776	7131 588481	22587	46560	+++++ 10.8	0.432 21.6	0.800 43.2	2.70	5.40
Methyl methacrylate	DFB	Ave	1594 124657	3582 280983	7252 +++++	25022	53933	0.212 10.6	0.424 21.2	0.800 +++++	2.65	5.30
1,4-Dioxane	DFB	Ave	668 50851	1718 116684	3397 297560	11604	23787	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
Bromodichloromethane	DFB	Ave	2899 183949	5814 410871	11596 1097578	37669	80583	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
Dibromomethane	DFB	Ave	1142 74029	2506 163991	4939 453375	16330	33407	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
4-Methyl-2-pentanone (MIBK)	DFB	Ave	4199 286216	8685 603225	18170 1492094	60066	127327	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
cis-1,3-Dichloropropene	DFB	Ave	1498 128111	3346 277577	7213 713735	24891	54811	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
n-Octane	DFB	Ave	5101 307807	10124 670362	19891 1691639	64681	137055	0.214 10.7	0.428 21.4	0.800 42.8	2.68	5.35
Toluene	DFB	Ave	5110 288384	10042 620392	19736 1616845	61220	127879	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
trans-1,3-Dichloropropene	CBZ	Ave	874 85806	2003 188431	4236 468937	15558	35729	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
1,1,2-Trichloroethane	CBZ	Ave	1533 96943	3226 216254	6552 570892	20763	43194	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
2-Hexanone	CBZ	Ave	1687 135212	3793 303378	7936 824069	25585	56086	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
Tetrachloroethene	CBZ	Ave	1919 117047	3896 263282	7449 748616	24356	50867	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
Dibromochloromethane	CBZ	Ave	2123 153575	4352 350767	8439 978400	29546	65156	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
1,2-Dibromoethane (EDB)	CBZ	Ave	2096 146466	4611 319194	9041 844416	30249	64543	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
Chlorobenzene	CBZ	Ave	3710 208453	7453 454752	14014 1199953	44562	93910	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
Ethylbenzene	CBZ	Ave	6337 387651	13081 854310	25485 2284636	81378	172081	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
m,p-Xylene	CBZ	Ave	9731 690637	20510 1634603	40098 4731197	132439	285991	0.432 21.6	0.864 43.2	1.60 86.4	5.40	10.8
o-Xylene	CBZ	Ave	5010 348320	10365 792966	20639 2229228	67205	144142	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
Styrene	CBZ	Ave	3280 248313	7177 571707	14532 1655391	48437	103664	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
Bromoform	CBZ	Ave	+++++ 148740	+++++ 353798	6703 1096841	24679	57725	+++++ 10.8	+++++ 21.6	0.800 43.2	2.70	5.40
Isopropylbenzene	CBZ	Ave	6283 435197	13224 945711	27073 2692263	87044	184839	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,1,2,2-Tetrachloroethane	CBZ	Ave	3694 246224	7971 521931	15812 1405021	49560	106581	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
1,2,3-Trichloropropane	CBZ	Ave	775 64649	2203 132957	4156 350263	13235	27828	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
n-Nonane	CBZ	Ave	4965 371644	10616 817101	22520 2030663	73783	161561	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
n-Propylbenzene	CBZ	Ave	8608 582096	17710 1241042	35835 3454660	115134	245623	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
4-Ethyltoluene	CBZ	Ave	7327 454755	14658 971274	28731 2823048	90621	194685	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
1,3,5-Trimethylbenzene	CBZ	Ave	5041 398642	11435 906391	22575 2642870	76000	163716	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
2-Chlorotoluene	CBZ	Ave	1495 105141	3270 228092	6145 638684	20447	43844	0.214 10.7	0.428 21.4	0.800 42.8	2.68	5.35
alpha-Methylstyrene	CBZ	Ave	1975 172164	5100 376575	10592 1058750	34631	74567	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
tert-Butylbenzene	CBZ	Ave	3930 318685	9292 703556	18904 1943856	62857	135387	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
1,2,4-Trimethylbenzene	CBZ	Ave	5209 398882	11633 882802	23780 2564187	77256	164837	0.216 10.8	0.432 21.6	0.800 43.2	2.70	5.40
sec-Butylbenzene	CBZ	Ave	1111 98482	2861 219169	5732 611352	19407	42229	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
4-Isopropyltoluene	CBZ	Ave	5593 438968	12255 1013190	25701 2982212	83824	185099	0.200 10.0	0.400 20.0	0.800 40.0	2.50	5.00
1,3-Dichlorobenzene	CBZ	Ave	3015 227807	6900 501036	14090 1432873	45024	95977	0.220 11.0	0.440 22.0	0.800 44.0	2.75	5.50
1,4-Dichlorobenzene	CBZ	Ave	2839 231029	6889 507218	14081 1459389	44610	95944	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
Benzyl chloride	CBZ	Lin	+++++ 283727	3056 730189	7282 +++++	31293	89426	+++++ 11.0	0.440 22.0	0.800 +++++	2.75	5.50
n-Butylbenzene	CBZ	Ave	5635 495920	13952 1138455	29136 3255096	94822	210416	0.212 10.6	0.424 21.2	0.800 42.4	2.65	5.30

FORM VI
AIR - GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1 Analy Batch No.: 3635

SDG No.:

Instrument ID: MSG GC Column: See SOP ID: Heated Purge: (Y/N) N

Calibration Start Date: 12/26/2012 07:53 Calibration End Date: 12/26/2012 12:36 Calibration ID: 756

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (PPB V/V)				
			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
1,2-Dichlorobenzene	CBZ	Ave	2691 215429	6270 478283	13460 1347156	42522	91177	0.218 10.9	0.436 21.8	0.800 43.6	2.73	5.45
Naphthalene	CBZ	Ave	+++++ 425439	+++++ 876358	28210 2931060	69853	188636	+++++ 11.0	+++++ 22.0	0.800 44.0	2.75	5.50
1,2,4-Trichlorobenzene	CBZ	Ave	+++++ 166595	+++++ 379815	9655 1325430	26731	69616	+++++ 11.0	+++++ 22.0	0.800 44.0	2.75	5.50
Hexachlorobutadiene	CBZ	Ave	+++++ 144355	+++++ 355526	8165 +++++	24094	59466	+++++ 11.0	+++++ 22.0	0.800 +++++	2.75	5.50
1,2,3-Trichlorobenzene	CBZ	Ave	+++++ 147344	+++++ 317419	9420 1147735	22702	64818	+++++ 10.9	+++++ 21.8	0.800 43.6	2.73	5.45
1,2-Dichloroethane-d4 (Surr)	CBM	Ave	41991 46668	40994 54808	41031 69420	41309	42824	4.00 4.00	4.00 4.00	4.00 4.00	4.00	4.00
Toluene-d8 (Surr)	DFB	Ave	97561 98322	94964 102768	92233 117646	90369	91213	4.00 4.00	4.00 4.00	4.00 4.00	4.00	4.00
4-Bromofluorobenzene (Surr)	CBZ	Ave	66285 72077	64913 78027	63717 94224	63821	65778	4.00 4.00	4.00 4.00	4.00 4.00	4.00	4.00

Curve Type Legend:

Ave = Average ISTD
Lin = Linear ISTD
None = No Calib Curve

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: ICV 340-3635/11 Calibration Date: 12/26/2012 13:20

Instrument ID: MSG Calib Start Date: 12/19/2012 11:42

GC Column: See SOP ID: Calib End Date: 12/19/2012 18:33

Lab File ID: LC12261.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Propanol	Ave	1.243				10.9		30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: ICV 340-3635/11 Calibration Date: 12/26/2012 13:20

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: LC12261.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.5312	0.5096		10.5	10.9	-4.1	30.0
Chlorodifluoromethane	Ave	1.157	1.063		9.19	10.0	-8.1	30.0
Dichlorodifluoromethane	Ave	1.521	1.424		9.36	10.0	-6.4	30.0
1,2-Dichloro-1,1,2,2-tetrafl uoroethane	Ave	2.144	1.785		8.32	10.0	-16.8	30.0
Chloromethane	Ave	0.9307	0.7997		8.59	10.0	-14.1	30.0
n-Butane	Ave	1.576	1.373		8.71	10.0	-12.9	30.0
Vinyl chloride	Ave	0.9273	0.8197		8.84	10.0	-11.6	30.0
1,3-Butadiene	Ave	0.8115	0.6880		8.48	10.0	-15.2	30.0
Methanol	None		0.0005			10.0	-100.0*	30.0
Bromomethane	Ave	0.7187	0.5987		8.33	10.0	-16.7	30.0
Chloroethane	Ave	0.4660	0.4052		8.69	10.0	-13.1	30.0
Vinyl bromide	Ave	0.4917	0.4171		8.48	10.0	-15.2	30.0
Trichlorofluoromethane	Ave	1.476	1.408		9.54	10.0	-4.6	30.0
n-Pentane	Ave	1.317	1.279		9.72	10.0	-2.8	30.0
Acrolein	Ave	0.2177	0.2351		9.93	9.20	8.0	30.0
Acetone	Ave	1.236	1.121		9.07	10.0	-9.3	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.6694	0.7036		9.88	9.40	5.1	30.0
1,1-Dichloroethene	Ave	0.9615	0.8929		9.29	10.0	-7.1	30.0
Allyl chloride	Ave	0.5687	0.6442		10.4	9.20	13.3	30.0
Methylene chloride	Ave	0.8340	0.7796		9.35	10.0	-6.5	30.0
Carbon disulfide	Ave	1.348	1.364		10.1	10.0	1.2	30.0
Acrylonitrile	Ave	0.4738	0.4885		10.3	10.0	3.1	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	1.232	1.330		10.8	10.0	8.0	30.0
trans-1,2-Dichloroethene	Ave	0.4866	0.4736		9.73	10.0	-2.7	30.0
n-Hexane	Ave	1.002	0.9596		9.57	10.0	-4.3	30.0
Vinyl acetate	Ave	1.746	1.773		11.1	10.9	1.5	30.0
1,1-Dichloroethane	Ave	1.146	1.065		9.30	10.0	-7.0	30.0
2-Butanone (MEK)	Ave	0.2392	0.2614		10.9	10.0	9.3	30.0
Ethyl acetate	Ave	1.610	1.692		10.5	10.0	5.1	30.0
cis-1,2-Dichloroethene	Ave	0.5121	0.5053		9.87	10.0	-1.3	30.0
Chloroform	Ave	1.180	1.085		9.20	10.0	-8.0	30.0
Tetrahydrofuran	Ave	0.8254	0.8637		10.5	10.0	4.6	30.0
1,1,1-Trichloroethane	Ave	1.005	1.008		10.0	10.0	0.3	30.0
Cyclohexane	Ave	1.054	1.053		9.98	10.0	-0.2	30.0
2,2,4-Trimethylpentane	Ave	3.668	3.403		9.28	10.0	-7.2	30.0
Carbon tetrachloride	Ave	0.5306	0.4907		9.25	10.0	-7.5	30.0
1,2-Dichloroethane	Ave	0.5022	0.4786		9.53	10.0	-4.7	30.0
Benzene	Ave	0.9409	0.8736		9.28	10.0	-7.2	30.0
n-Heptane	Ave	0.8330	0.7924		9.51	10.0	-4.9	30.0
Trichloroethene	Ave	0.3422	0.3383		9.89	10.0	-1.1	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: ICV 340-3635/11 Calibration Date: 12/26/2012 13:20

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: LC12261.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dichloropropane	Ave	0.4222	0.3793		8.98	10.0	-10.2	30.0
Methyl methacrylate	Ave	0.4456	0.3370		7.56	10.0	-24.4	30.0
1,4-Dioxane	Ave	0.2006	0.2044		10.2	10.0	1.9	30.0
Bromodichloromethane	Ave	0.7118	0.6780		9.53	10.0	-4.7	30.0
Dibromomethane	Ave	0.2968	0.2921		9.84	10.0	-1.6	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.077	1.035		9.61	10.0	-3.9	30.0
cis-1,3-Dichloropropene	Ave	0.4922	0.4822		10.4	10.6	-2.0	30.0
n-Octane	Ave	1.211	1.132		9.35	10.0	-6.5	30.0
Toluene	Ave	1.142	1.088		9.53	10.0	-4.7	30.0
trans-1,3-Dichloropropene	Ave	0.3098	0.3136		10.1	10.0	1.2	30.0
1,1,2-Trichloroethane	Ave	0.4130	0.4039		9.78	10.0	-2.2	30.0
2-Hexanone	Ave	0.5291	0.4845		10.2	11.1	-8.4	30.0
Tetrachloroethene	Ave	0.5397	0.4977		9.22	10.0	-7.8	30.0
Dibromochloromethane	Ave	0.6114	0.5430		10.2	11.5	-11.2	30.0
1,2-Dibromoethane (EDB)	Ave	0.6044	0.6072		10.0	10.0	0.5	30.0
Chlorobenzene	Ave	0.8949	0.8245		9.86	10.7	-7.9	30.0
Ethylbenzene	Ave	1.647	1.530		9.85	10.6	-7.1	30.0
m,p-Xylene	Ave	1.436	1.382		19.3	20.0	-3.7	30.0
o-Xylene	Ave	1.408	1.279		9.81	10.8	-9.2	30.0
Styrene	Ave	1.002	0.9260		9.98	10.8	-7.6	30.0
Bromoform	Ave	0.6309	0.5849		9.27	10.0	-7.3	30.0
Isopropylbenzene	Ave	1.921	1.709		8.89	10.0	-11.1	30.0
1,1,2,2-Tetrachloroethane	Ave	1.002	0.9086		9.79	10.8	-9.3	30.0
1,2,3-Trichloropropane	Ave	0.2790	0.2557		9.17	10.0	-8.3	30.0
n-Nonane	Ave	1.588	1.447		9.11	10.0	-8.9	30.0
n-Propylbenzene	Ave	2.545	2.255		8.86	10.0	-11.4	30.0
4-Ethyltoluene	Ave	1.912	1.766		9.24	10.0	-7.6	30.0
1,3,5-Trimethylbenzene	Ave	1.583	1.485		9.94	10.6	-6.2	30.0
2-Chlorotoluene	Ave	0.4307	0.3852		9.66	10.8	-10.6	30.0
alpha-Methylstyrene	Ave	0.7437	0.6963		9.36	10.0	-6.4	30.0
tert-Butylbenzene	Ave	1.280	1.232		9.62	10.0	-3.8	30.0
1,2,4-Trimethylbenzene	Ave	1.617	1.555		9.62	10.0	-3.8	30.0
sec-Butylbenzene	Ave	0.4213	0.3993		9.48	10.0	-5.2	30.0
4-Isopropyltoluene	Ave	1.919	1.762		9.18	10.0	-8.2	30.0
1,3-Dichlorobenzene	Ave	0.9180	0.8456		10.1	11.0	-7.9	30.0
1,4-Dichlorobenzene	Ave	0.9252	0.9301		10.1	10.0	0.5	30.0
Benzyl chloride	Lin		0.9154		8.01	11.0	-27.2	30.0
n-Butylbenzene	Ave	2.030	1.976		9.73	10.0	-2.7	30.0
1,2-Dichlorobenzene	Ave	0.8687	0.8201		10.2	10.8	-5.6	30.0
1,2,4-Trichlorobenzene	Ave	0.7318	0.7904		10.8	10.0	8.0	30.0
Hexachlorobutadiene	Ave	0.5797	0.6457		11.1	10.0	11.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: ICV 340-3635/11 Calibration Date: 12/26/2012 13:20

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: LC12261.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.836	2.082		11.3	10.0	13.4	30.0
1,2,3-Trichlorobenzene	Ave	0.6545	0.7368		11.3	10.0	12.6	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9158	0.9015		3.94	4.00	-1.6	30.0
Toluene-d8 (Surr)	Ave	1.076	1.073		3.99	4.00	-0.3	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8435	0.8403		3.98	4.00	-0.4	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: CCVIS 340-3781/3 Calibration Date: 01/15/2013 09:08

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: CC01151.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Propylene	Ave	0.5312	0.5248		11.3	11.4	-1.2	30.0
Chlorodifluoromethane	Ave	1.157	1.211		11.1	10.6	4.7	30.0
Dichlorodifluoromethane	Ave	1.521	1.682		11.1	10.0	10.5	30.0
1,2-Dichloro-1,1,2,2-tetrafl uoroethane	Ave	2.144	2.300		10.7	10.0	7.3	30.0
Chloromethane	Ave	0.9307	0.8968		9.64	10.0	-3.6	30.0
n-Butane	Ave	1.576	1.436		9.75	10.7	-8.9	30.0
Vinyl chloride	Ave	0.9273	0.8775		9.46	10.0	-5.4	30.0
1,3-Butadiene	Ave	0.8115	0.7909		9.75	10.0	-2.5	30.0
Bromomethane	Ave	0.7187	0.7384		10.3	10.0	2.7	30.0
Chloroethane	Ave	0.4660	0.4711		10.1	10.0	1.1	30.0
Vinyl bromide	Ave	0.4917	0.4315		7.81	8.90	-12.3	30.0
Trichlorofluoromethane	Ave	1.476	1.476		10.0	10.0	0.0	30.0
n-Pentane	Ave	1.317	1.174		8.92	10.0	-10.8	30.0
Acrolein	Ave	0.2177	0.2059		9.46	10.0	-5.4	30.0
Acetone	Ave	1.236	1.107		8.96	10.0	-10.4	30.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.6694	0.5704		8.52	10.0	-14.8	30.0
1,1-Dichloroethene	Ave	0.9615	0.8789		9.14	10.0	-8.6	30.0
Allyl chloride	Ave	0.5687	0.4806		9.30	11.0	-15.5	30.0
Methylene chloride	Ave	0.8340	0.7384		9.74	11.0	-11.5	30.0
Carbon disulfide	Ave	1.348	1.272		9.44	10.0	-5.6	30.0
Acrylonitrile	Ave	0.4738	0.4620		9.75	10.0	-2.5	30.0
Methyl-t-Butyl Ether (MTBE)	Ave	1.232	1.231		10.7	10.7	-0.1	30.0
trans-1,2-Dichloroethene	Ave	0.4866	0.4418		9.08	10.0	-9.2	30.0
n-Hexane	Ave	1.002	0.8965		8.94	10.0	-10.6	30.0
Vinyl acetate	Ave	1.746	1.866		11.8	11.0	6.9	30.0
1,1-Dichloroethane	Ave	1.146	1.114		9.73	10.0	-2.7	30.0
2-Butanone (MEK)	Ave	0.2392	0.2312		10.4	10.8	-3.4	30.0
Ethyl acetate	Ave	1.610	1.648		10.2	10.0	2.4	30.0
cis-1,2-Dichloroethene	Ave	0.5121	0.4709		9.75	10.6	-8.0	30.0
Chloroform	Ave	1.180	1.191		10.1	10.0	0.9	30.0
Tetrahydrofuran	Ave	0.8254	0.7814		10.3	10.9	-5.3	30.0
1,1,1-Trichloroethane	Ave	1.005	1.160		11.5	10.0	15.4	30.0
Cyclohexane	Ave	1.054	0.9305		9.44	10.7	-11.8	30.0
2,2,4-Trimethylpentane	Ave	3.668	3.297		8.99	10.0	-10.1	30.0
Carbon tetrachloride	Ave	0.5306	0.7127		14.5	10.8	34.3*	30.0
1,2-Dichloroethane	Ave	0.5022	0.5896		12.7	10.8	17.4	30.0
Benzene	Ave	0.9409	1.007		11.3	10.6	7.0	30.0
n-Heptane	Ave	0.8330	0.8825		11.5	10.9	5.9	30.0
Trichloroethene	Ave	0.3422	0.3222		10.3	10.9	-5.8	30.0
1,2-Dichloropropane	Ave	0.4222	0.4446		11.4	10.8	5.3	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: CCVIS 340-3781/3 Calibration Date: 01/15/2013 09:08

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: CC01151.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl methacrylate	Ave	0.4456	0.5480		13.0	10.6	23.0	30.0
1,4-Dioxane	Ave	0.2006	0.2209		12.0	10.9	10.1	30.0
Bromodichloromethane	Ave	0.7118	0.8796		13.5	10.9	23.6	30.0
Dibromomethane	Ave	0.2968	0.2847		10.4	10.8	-4.1	30.0
4-Methyl-2-pentanone (MIBK)	Ave	1.077	1.265		12.7	10.8	17.4	30.0
cis-1,3-Dichloropropene	Ave	0.4922	0.6311		12.8	10.0	28.2	30.0
n-Octane	Ave	1.211	1.308		11.6	10.7	8.0	30.0
Toluene	Ave	1.142	1.253		12.0	10.9	9.7	30.0
trans-1,3-Dichloropropene	Ave	0.3098	0.3751		13.3	11.0	21.1	30.0
1,1,2-Trichloroethane	Ave	0.4130	0.4035		10.7	10.9	-2.3	30.0
2-Hexanone	Ave	0.5291	0.5373		11.2	11.0	1.6	30.0
Tetrachloroethene	Ave	0.5397	0.4497		8.33	10.0	-16.7	30.0
Dibromochloromethane	Ave	0.6114	0.6606		11.9	11.0	8.0	30.0
1,2-Dibromoethane (EDB)	Ave	0.6044	0.5958		10.6	10.8	-1.4	30.0
Chlorobenzene	Ave	0.8949	0.8152		10.0	11.0	-8.9	30.0
Ethylbenzene	Ave	1.647	1.635		10.8	10.9	-0.7	30.0
m,p-Xylene	Ave	1.436	1.467		22.1	21.6	2.2	30.0
o-Xylene	Ave	1.408	1.426		11.1	11.0	1.3	30.0
Styrene	Ave	1.002	1.000		11.0	11.0	-0.2	30.0
Bromoform	Ave	0.6309	0.6319		10.8	10.8	0.2	30.0
Isopropylbenzene	Ave	1.921	2.006		10.4	10.0	4.4	30.0
1,1,2,2-Tetrachloroethane	Ave	1.002	1.094		12.0	11.0	9.2	30.0
1,2,3-Trichloropropane	Ave	0.2790	0.3148		11.3	10.0	12.8	30.0
n-Nonane	Ave	1.588	1.757		11.1	10.0	10.6	30.0
n-Propylbenzene	Ave	2.545	2.777		10.9	10.0	9.1	30.0
1,3,5-Trimethylbenzene	Ave	1.583	1.756		12.2	11.0	10.9	30.0
4-Ethyltoluene	Ave	1.912	1.788		10.1	10.8	-6.4	30.0
2-Chlorotoluene	Ave	0.4307	0.4474		11.1	10.7	3.9	30.0
alpha-Methylstyrene	Ave	0.7437	0.8181		11.0	10.0	10.0	30.0
tert-Butylbenzene	Ave	1.280	1.504		12.7	10.8	17.5	30.0
1,2,4-Trimethylbenzene	Ave	1.617	1.824		12.2	10.8	12.8	30.0
sec-Butylbenzene	Ave	0.4213	0.4556		10.8	10.0	8.1	30.0
4-Isopropyltoluene	Ave	1.919	2.166		11.3	10.0	12.9	30.0
1,3-Dichlorobenzene	Ave	0.9180	0.9766		11.7	11.0	6.4	30.0
1,4-Dichlorobenzene	Ave	0.9252	0.9933		11.7	10.9	7.4	30.0
Benzyl chloride	Lin		1.820		14.7	11.0	33.8*	30.0
n-Butylbenzene	Ave	2.030	2.471		12.9	10.6	21.7	30.0
1,2-Dichlorobenzene	Ave	0.8687	0.9552		12.0	10.9	10.0	30.0
1,2,4-Trichlorobenzene	Ave	0.7318	0.6815		10.2	11.0	-6.9	30.0
Hexachlorobutadiene	Ave	0.5797	0.5826		11.1	11.0	0.5	30.0
Naphthalene	Ave	1.836	1.957		11.7	11.0	6.6	30.0

FORM VII
AIR - GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Lab Sample ID: CCVIS 340-3781/3 Calibration Date: 01/15/2013 09:08

Instrument ID: MSG Calib Start Date: 12/26/2012 07:53

GC Column: See SOP ID: Calib End Date: 12/26/2012 12:36

Lab File ID: CC01151.d Conc. Units: ppb v/v Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2,3-Trichlorobenzene	Ave	0.6545	0.6239		10.4	10.9	-4.7	30.0
Methanol	None					10.0	-100.0*	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.9158	0.9935		4.34	4.00	8.5	30.0
Toluene-d8 (Surr)	Ave	1.076	1.227		4.56	4.00	14.1	30.0
4-Bromofluorobenzene (Surr)	Ave	0.8435	0.8839		4.19	4.00	4.8	30.0

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Instrument ID: MSG Start Date: 12/19/2012 10:31

Analysis Batch Number: 3594 End Date: 12/19/2012 23:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 340-3594/1		12/19/2012 10:31	1	BF12191.d	See SOP
IC 340-3594/3		12/19/2012 11:42	1	IC12191.d	See SOP
IC 340-3594/4		12/19/2012 12:24	1	IC12192.d	See SOP
IC 340-3594/5		12/19/2012 13:05	1	IC12193.d	See SOP
IC 340-3594/6		12/19/2012 13:45	1	IC12194.d	See SOP
IC 340-3594/7		12/19/2012 14:26	1	IC12195.d	See SOP
IC 340-3594/8		12/19/2012 15:07	1	IC12196.d	See SOP
IC 340-3594/9		12/19/2012 15:48	1	IC12197.d	See SOP
IC 340-3594/12		12/19/2012 17:53	1	IC12199.d	See SOP
IC 340-3594/13		12/19/2012 18:33	1	IC1219A.d	See SOP
ICV 340-3594/14		12/19/2012 19:14	1		See SOP
ZZZZZ		12/19/2012 19:14	1		See SOP
ZZZZZ		12/19/2012 19:57	1		See SOP
ZZZZZ		12/19/2012 20:44	1		See SOP
ZZZZZ		12/19/2012 21:26	1		See SOP
ZZZZZ		12/19/2012 22:08	1		See SOP
ZZZZZ		12/19/2012 22:50	1		See SOP
ZZZZZ		12/19/2012 23:32	1		See SOP

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Instrument ID: MSG Start Date: 12/26/2012 06:38

Analysis Batch Number: 3635 End Date: 12/27/2012 05:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 340-3635/1		12/26/2012 06:38	1	BF12261.d	See SOP
ZZZZZ		12/26/2012 07:07	1		See SOP
IC 340-3635/3		12/26/2012 07:53	1	IC12261.d	See SOP
IC 340-3635/4		12/26/2012 08:34	1	IC12262.d	See SOP
IC 340-3635/5		12/26/2012 09:15	1	IC12263.d	See SOP
IC 340-3635/6		12/26/2012 09:55	1	IC12264.d	See SOP
IC 340-3635/7		12/26/2012 10:36	1	IC12265.d	See SOP
ICIS 340-3635/8		12/26/2012 11:17	1	IC12266.d	See SOP
IC 340-3635/9		12/26/2012 11:55	1	IC12267.d	See SOP
IC 340-3635/10		12/26/2012 12:36	1	IC12268.d	See SOP
ICV 340-3635/11		12/26/2012 13:20	1	LC12261.d	See SOP
ZZZZZ		12/26/2012 13:20	1		See SOP
ZZZZZ		12/26/2012 14:01	1		See SOP
ZZZZZ		12/26/2012 14:42	1		See SOP
ZZZZZ		12/26/2012 15:24	1		See SOP
ZZZZZ		12/26/2012 16:06	311		See SOP
ZZZZZ		12/26/2012 16:45	931		See SOP
ZZZZZ		12/26/2012 17:25	764		See SOP
ZZZZZ		12/26/2012 18:06	265		See SOP
ZZZZZ		12/26/2012 18:57	276		See SOP
ZZZZZ		12/26/2012 19:46	1		See SOP
ZZZZZ		12/26/2012 20:33	1		See SOP
ZZZZZ		12/26/2012 21:19	1		See SOP
ZZZZZ		12/26/2012 22:01	7.51		See SOP
ZZZZZ		12/26/2012 22:49	1		See SOP
ZZZZZ		12/26/2012 23:37	1		See SOP
ZZZZZ		12/27/2012 00:37	1		See SOP
ZZZZZ		12/27/2012 01:23	1		See SOP
ZZZZZ		12/27/2012 02:17	1		See SOP
ZZZZZ		12/27/2012 03:03	1		See SOP
ZZZZZ		12/27/2012 03:44	10.8		See SOP
ZZZZZ		12/27/2012 04:25	22		See SOP
ZZZZZ		12/27/2012 05:07	1		See SOP
ZZZZZ		12/27/2012 05:47	1		See SOP

AIR - GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Costa Mesa Job No.: 340-5743-1

SDG No.:

Instrument ID: MSG Start Date: 01/15/2013 07:52

Analysis Batch Number: 3781 End Date: 01/16/2013 07:25

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 340-3781/1		01/15/2013 07:52	1	BF101151.d	See SOP
ZZZZZ		01/15/2013 08:22	1		See SOP
CCVIS 340-3781/3		01/15/2013 09:08	1	CC01151.d	See SOP
LCS 340-3781/4		01/15/2013 09:48	1	LC01151.d	See SOP
LCSD 340-3781/5		01/15/2013 10:30	1	LC01152.d	See SOP
MB 340-3781/6		01/15/2013 11:11	1	MB01152.d	See SOP
ZZZZZ		01/15/2013 11:51	1		See SOP
ZZZZZ		01/15/2013 12:33	1		See SOP
ZZZZZ		01/15/2013 13:15	1		See SOP
ZZZZZ		01/15/2013 14:43	13.1		See SOP
ZZZZZ		01/15/2013 15:28	1		See SOP
ZZZZZ		01/15/2013 16:14	1		See SOP
ZZZZZ		01/15/2013 17:01	1.504		See SOP
ZZZZZ		01/15/2013 17:49	1.71		See SOP
ZZZZZ		01/15/2013 18:35	2.05		See SOP
ZZZZZ		01/15/2013 19:26	1.91		See SOP
ZZZZZ		01/15/2013 20:11	2.41		See SOP
ZZZZZ		01/15/2013 20:58	1		See SOP
ZZZZZ		01/15/2013 21:45	1		See SOP
ZZZZZ		01/15/2013 22:31	1		See SOP
ZZZZZ		01/15/2013 23:20	1		See SOP
ZZZZZ		01/16/2013 00:09	15.9		See SOP
ZZZZZ		01/16/2013 01:16	9.35		See SOP
ZZZZZ		01/16/2013 02:09	17.6		See SOP
ZZZZZ		01/16/2013 02:54	12.4		See SOP
ZZZZZ		01/16/2013 03:42	126		See SOP
ZZZZZ		01/16/2013 04:26	4.55		See SOP
ZZZZZ		01/16/2013 05:12	4.64		See SOP
340-5743-1	34000934	01/16/2013 05:56	1	MB01156.d	See SOP
ZZZZZ		01/16/2013 06:41	1		See SOP
ZZZZZ		01/16/2013 07:25	1		See SOP

Shipping and Receiving Documents

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 340000934
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF062
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.19	1/25/13	
FINAL PRESSURE (PSIA)	27.20	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 3400095 23
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF130
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.56	1/25/13	
FINAL PRESSURE (PSIA)	24.91	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 340011030
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: G-658
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[redacted]	[illegible]	1/17/13	[illegible]
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	11.78	1/25/13	[illegible]
FINAL PRESSURE (PSIA)	27.71	1/25/13	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 34001029
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF016
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.44	1/25/13	
FINAL PRESSURE (PSIA)	27.77	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 34000897
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF 223
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.22	1/25/13	
FINAL PRESSURE (PSIA)	25.40	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 34000672
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF029
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	14.20	1/25/13	
FINAL PRESSURE (PSIA)	25.83	1/26/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 340000604
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF118
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		[illegible]	1/17/13	[illegible]
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	14.03	1/25/13	[illegible]
FINAL PRESSURE (PSIA)	24.53	1/25/13	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 34001184
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF228
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg PSIA (circle unit used))	13.48	1/25/13	
FINAL PRESSURE (PSIA)	24.87	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 3400110 de
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF250
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		[illegible]	1/17/13	[illegible]
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.24	1/25/13	[illegible]
FINAL PRESSURE (PSIA)	24.26	1/25/13	[illegible]

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CANISTER FIELD DATA RECORD

CLIENT: EA Engineering, Science + Tech
CANISTER SERIAL #: 34000939
DATE CLEANED: 340-5743
CLIENT SAMPLE #:
SITE LOCATION:

INLINE GAUGE:
~~VFR~~ ID: HF032
Duration of comp. : — Hrs. / mins.
Flow setting: — ml/min
Initials:

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK			1/17/13	
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.70	1/25/13	
FINAL PRESSURE (PSIA)	25.03	1/25/13	

Pressurization Gas: N_2

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 – 333
30 Min.	158 – 166.7
1	79.2 – 83.3
2	39.6 – 41.7
4	19.8 – 20.8
6	13.2 – 13.9
8	9.9 – 10.4
10	7.92 – 8.3
12	6.6 – 6.9
24	3.5 – 4.0

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TestAmerica
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

340-5923

Client Contact Information	Project Manager: Ted Telisak		1 of 2 COCs
Company: EA Engineering	Phone: 972-315-3922	Samples Collected By: DS and Al	
Address: 405 S. Hwy 121, Suite C-100	Email: ttelisak@eaest.com		
City/State/Zip Lewisville, TX 75067			
Phone: 972-315-3922	Site Contact: Jose Lopez		
FAX: 972-315-5181	LAB Contact: Beth Riley		
Project Name: Jones Rd	Analysis Turnaround Time		
Site: Jones Rd GW Plume Superfund Site	Standard (Specify) 21		
PO # 143270 B7	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SVE-04	1/23/13	1005	1005	30	5		34000934	X					X					X		
IW-01D	1/23/13	1425	1425	30	5		34000953	X					X					X		
SVE-03	1/23/13	1705	1705	32	6		34001630	X					X					X		
SVE-02	1/23/13	1850	1850	32	3		34001091	X					X					X		
SVE-05	1/23/13	1550	1550	35	6		34000897	X					X					X		
SVE-01-1	1/22/13	1113	1113	30	0		34000672	X					X					X		

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
Canister ID: 34000616 was not used
Canister ID: 34001091 was used but should not be analyzed.

Samples Shipped by:	Date/Time: 1/24/13, 2030	Samples Received by:
Samples Relinquished by: DS	Date/Time: 1/24/13, 0800	Received by:
Relinquished by: Al	Date/Time: 1/24/13, 0800	Received by:

Lab Use Only Shipper Name: Opened by: Condition: 1/25/13 10:15

TAL-8604-340(0312)

TestAmerica
3585 Cadillac Ave., Suite A
Costa Mesa, CA 92626
Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

340-5923

Client Contact Information	Project Manager:		2 of 2 COCs
Company:	Phone:	Samples Collected By: DS and AI	
Address: See Page 1 of 2	Email:		
City/State/Zip			
Phone:	Site Contact:		
FAX:	LAB Contact:		
Project Name:	Analysis Turnaround Time		
Site:	Standard (Specify)_____		
PO #	Rush (Specify)_____		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SVE-01-2	1/22/13	1630	1630	NR	NR		34000604	X					X					X		
SVE-01-3	1/22/13	1900	1900	30	2		34001184	X					X					X		
SVE-01-4	1/22/13	2000	2000	30	4		34001066	X					X					X		
SVE-01-5	1/22/13	2100	2100	30	2		34000939	X					X					X		

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:
NR= Not recorded

Samples Shipped by:	Date/Time: 1/24/13, 2030	Samples Received by:	
Samples Relinquished by: DS	Date/Time: 1/24/13, 0800	Received by:	
Relinquished by: AI	Date/Time: 1/24/13, 0800	Received by:	

Lab Use Only Shipper Name: Opened by: Condition: Rec: 1/25/13 10:15

TAL-8604-340(0312)

Login Sample Receipt Checklist

Client: EA Engineering, Science, and Technology

Job Number: 340-5923-1

Login Number: 5923

List Source: TestAmerica Costa Mesa

List Number: 1

Creator: Morales, Sergio

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
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 containers received 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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

Attachment 3

Data Validation Reports for EA Contracted Laboratories

DATA VALIDATION REPORT

Site Name:	Jones Road Ground Water Plume Superfund Site Harris County, Texas
Laboratory:	TestAmerica Laboratories, Costa Mesa, California
QA Reviewer:	Kim Wallace-Wymore, EA Engineering, Science, and Technology, Inc. (EA), Dallas, Texas
SDG No.:	J5923
Sample No.:	Refer to Table 3-1.
Matrix:	Air
QC Criteria Reviewed:	Review criteria listed in Section 2.0 was performed.
Report Date:	20 February 2013

1.0 INTRODUCTION

Data were validated according to U.S. Environmental Protection Agency (EPA) document "National Functional Guidelines for Organic Data Review" (EPA 2008). In addition, the site-specific Sampling and Analysis Plan (SAP) (EA 2011) and other specific criteria in associated EPA methods were used (ASTM International 1990, EPA 1999). Section 2.0 of this data validation report lists the criteria reviewed based on EPA documents. Section 3.0 is the glossary of qualifiers used in validating the data, and Section 4.0 provides an assessment of data by methodology.

Table 3-1 identifies the field sample numbers, collection dates, analyses performed, and quality control (QC) samples associated with this sample delivery group (SDG). The results of these analyses are discussed in Section 4.0, Data Assessment.

TABLE 3-1 SAMPLE CROSS REFERENCE TABLE
SAMPLE DELIVERY GROUP J5923

Field Sample ID	Lab Sample ID	Matrix	Date Collected	Analyses Performed
SVE-4	340-5923-1	Air	23 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
IW-01D (logged by the laboratory as 1W-01D)	340-5923-2	Air	23 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-03	340-5923-3	Air	23 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-02	340-5923-4	Air	23 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-05	340-5923-5	Air	23 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-01-1	340-5923-6	Air	22 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-01-2	340-5923-7	Air	22 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-01-3	340-5923-8	Air	22 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-01-4	340-5923-9	Air	22 January 2013	Volatile Organic Compounds TO-15 ASTM D1946
SVE-01-5	340-5923-10	Air	22 January 2013	Volatile Organic Compounds TO-15 ASTM D1946

2.0 DATA VALIDATION REQUIREMENTS

The items listed below were evaluated for the validation review.

- Holding times
- Gas chromatography/mass spectrometry (GC/MS) instrument performance check
- Calibration (initial and continuing)
- Blanks (method preparation blanks)
- Surrogate recovery

- Laboratory control sample (LCS)
- Field QC samples
- Internal standard performance
- Compound quantitation and reported detection limits
- Overall assessment of data.

3.0 GLOSSARY OF DATA QUALIFIERS

The following definitions provide a brief explanation for data qualifiers used during the data review process. The definitions are consistent with EPA guidance (2008).

No Qualifier Indicates that the data are acceptable both qualitatively and quantitatively.

U The analyte was analyzed for, but was not detected at a level greater than or equal to the method detection limit for sample and method.

J The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the quantitation limit).

UJ The analyte was analyzed for, but was not detected above the adjusted method detection limit or was detected in a blank sample at a similar concentration. The reported adjusted quantitation limit is approximate and may be inaccurate or imprecise.

R The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.

4.0 DATA ASSESSMENT

Analytical results were reviewed for the criteria listed in Section 2.0. A discussion of the data (by method) is presented below.

4.1 Volatile Organic Compounds TO-15

Air samples were collected and analyzed for volatile organic compounds by EPA Method TO-15.

4.1.1 DELIVERABLES

The data package for this SDG was complete.

4.1.2 SAMPLE CONDITION AT RECEIPT AND HOLDING TIMES

The samples were received by the laboratory in good condition and analyzed within the method-specified holding time.

4.1.3 GAS CHROMATOGRAPHY/MASS SPECTROMETRY INSTRUMENT PERFORMANCE CHECK

The ion abundance criteria were met for the bromofluorobenzene GC/MS performance checks.

4.1.4 INSTRUMENT CALIBRATIONS

The initial calibration percent relative standard deviations were within 30 percent for the target compounds.

The continuing calibration was performed at the correct frequency. The continuing calibration percent differences (%Ds) were within QC limits for the target compounds.

4.1.5 BLANKS

The target compounds were not detected in the method blank. A trip blank was not collected with this SDG.

4.1.6 SURROGATE RECOVERY

The surrogate recoveries were within acceptable limits for the project samples.

4.1.7 LABORATORY CONTROL SAMPLE

The LCS recoveries, LCS duplicate recoveries, and relative percent differences (RPDs) were within acceptable limits.

4.1.8 FIELD DUPLICATE

A field duplicate sample was not collected in this SDG.

4.1.9 INTERNAL STANDARD PERFORMANCE

The internal standard response and retention times were within QC limits for the project samples and associated QC samples.

4.1.10 QUANTITATION AND REPORTED DETECTION LIMITS

The results in sample SVE-04 were reported at a dilution factor of 3.72. Vinyl chloride was reported as non-detect at a reporting limit above the applicable regulatory screening criteria

specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE and TCE.

The results in sample SVE-05 were reported at a dilution factor of 41.6. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-02 were reported at a dilution factor of 258. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample IW-01D were reported at a dilution factor of 4.96. Vinyl chloride was reported as non-detect at a reporting limit above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE and TCE.

The results in sample SVE-03 were reported at a dilution factor of 14.7. Vinyl chloride was reported as non-detect at a reporting limit above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-01-1 were reported at a dilution factor of 91. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-01-2 were reported at a dilution factor of 146. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-01-3 were reported at a dilution factor of 154. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-01-4 were reported at a dilution factor of 124. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

The results in sample SVE-01-5 were reported at a dilution factor of 130. Vinyl chloride and trans-1,2-DCE were reported as non-detect at reporting limits above the applicable regulatory

screening criteria specified in Table 5 of the SAP (EA 2011). This sample required dilution due to the high detections of PCE, TCE, and cis-1,2-DCE.

4.1.11 OVERALL ASSESSMENT OF DATA

None of the results were rejected. The data are acceptable with the qualifications noted and appended to the data by the reviewer and/or the laboratory. These qualifiers modify the usefulness of the individual values to which they are assigned.

4.2 Method ASTM D1946

Air samples were collected and analyzed for fixed gases in air by ASTM method D1946 using gas chromatography(GC)/thermal conductivity detector. Methane and carbon dioxide were analyzed with a GC/flame ionization detector (FID).

4.2.1 DELIVERABLES

The data package for this SDG was complete.

4.2.2 SAMPLE CONDITION AT RECEIPT AND HOLDING TIMES

The samples were received by the laboratory in good condition. The sample containers were received intact and within the temperature requirements.

The samples were analyzed within the required holding time.

4.2.3 CALIBRATIONS

The r^2 values for the initial calibration were within the acceptable QC limits.

The continuing calibration %Ds were performed at the correct frequency and were within acceptable limits for the target compounds.

4.2.4 BLANKS

No target compounds were detected in the laboratory method blanks, unless otherwise noted.

Ethene was detected in method blank 340-3877 at a volume concentration of 0.000222 %v/v. Ethene was detected at similar concentrations in samples SVE-04 and IW-01D; these results were qualified (UJ).

Ethene was detected in method blank 340-3886 at a volume concentration of 0.000163 %v/v. Ethene was not detected in the associated project samples. Therefore, no data were qualified.

No trip blanks were collected in this SDG.

4.2.5 SURROGATE RECOVERY

Surrogates are not used for this analysis.

4.2.6 LABORATORY CONTROL SAMPLE

The LCS recoveries, LCS duplicate recoveries, and calculated RPDs were within acceptable limits.

4.2.7 FIELD QC SAMPLES

A field duplicate sample was not collected in this SDG.

4.2.8 COMPOUND QUANTITATION AND REPORTED DETECTION LIMITS

The methane, ethane, and ethene results for sample SVE-04 were reported at a dilution factor of 2.23 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-05 were reported at a dilution factor of 2.08 due to the level of compounds present in the sample. No data qualification is required due to the dilution. The methane concentration is qualified (J) because above the method detection limit, but below the reporting limit.

The methane, ethane, and ethene results for sample SVE-02 were reported at a dilution factor of 2.06 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample IW-01D were reported at a dilution factor of 1.98 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-03 were reported at a dilution factor of 2.35 due to the level of compounds present in the sample. No data qualification is required due to the dilution. The methane concentration is qualified (J) because above the method detection limit, but below the reporting limit.

The methane, ethane, and ethene results for sample SVE-01-1 were reported at a dilution factor of 1.82 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-01-2 were reported at a dilution factor of 1.75 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-01-3 were reported at a dilution factor of 1.84 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-01-4 were reported at a dilution factor of 1.98 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

The methane, ethane, and ethene results for sample SVE-01-5 were reported at a dilution factor of 1.83 due to the level of compounds present in the sample. No data qualification is required due to the dilution.

4.2.9 OVERALL ASSESSMENT OF DATA

Ethene concentrations were qualified (UJ) in samples SVE-04 and IW-01D due to detections in the method blank. Methane concentrations were qualified (J) in samples SVE-05 and SVE-03 because they were below the reporting limits. The data were acceptable with the qualifications noted and appended to the data by the reviewer and/or the laboratory. These qualifiers modify the usefulness of the individual values to which they are assigned.

REFERENCES

American Society for Testing and Materials. (ASTM). 1990. "D 1946-90, Standard Practice for Analysis of Reformed Gas by Gas Chromatography." May.

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—2008. "National Functional Guidelines for Organic Data Review." June.

Attachment 4

Duplicate Data/Data Relative Percent Differences

Table 4-1 Air RPDs for Contaminants of Concern

Sample ID	ASI-101-01232013	ASI-101- DUP-01232013	Relative Percent Difference
Date Collected	1/23/2013	1/23/2013	
Units	µg/m^3	µg/m^3	%
cis-1,2-Dichloroethene	**2**	**2**	**0.00**
trans-1,2-Dichloroethene	Not analyzed	Not analyzed	NC
Tetrachloroethene	**8.2**	**17**	**-52**
Trichloroethene	**1.6**	<2.7	NC
Vinyl chloride	<0.13	<1.3	NC

Table 4-2 Ground Water RPDs for Contaminants of Concern (Injection Pilot Test)

Sample ID	SVE-02	SVE-02-D	Relative Percent Difference	SVE-02	SVE-02-D	Relative Percent Difference	SVE-02	SVE-02-D	Relative Percent Difference	SVE-02	SVE-02-D	Relative Percent Difference
Date Collected	6/5/2012	6/5/2012		7/17/2012	7/17/2012		9/25/2012	9/25/2012		12/18/2012	12/18/2012	
Units	µg/L	µg/L	%	µg/L	µg/L	%	µg/L	µg/L	%	µg/L	µg/L	%
cis-1,2-Dichloroethene	**37.6**	**35.5**	**5.7**	**17.6**	**20.3**	**14**	**17**	**21**	**21**	**13**	**16**	**21**
trans-1,2-Dichloroethene	<2	<2	NC	<2	<2	NC	<5	<5	NC	<5	<5	NC
Tetrachloroethene	**356**	**296**	**18**	**106**	**121**	**13**	**86**	**150**	**54**	**78**	**82**	**5.0**
Trichloroethene	**19.3**	**16.7**	**14**	**6.1**	**6.7**	**9.4**	**5.8**	**9.1**	**44**	**4**	**4.3**	**7.2**
Vinyl chloride	<2	<2	NC	<2	<2	NC	<0.5	<0.5	NC	<0.5	<0.5	NC

NOTE:
The RPD criterion for field duplicates is 50 percent per the Sampling and Analysis Plan.
Shaded RPD values exceed the 50 percent criterion.

Attachment 5

Interpretation of Air Sample Results

INTERPRETATION OF VAPOR INTRUSION SAMPLE RESULTS

1.0 INTRODUCTION

In February 2008, as part of the Jones Road Ground Water Plume Superfund Site Remedial Investigation, Shaw Environmental, Inc., performed a vapor intrusion (VI) study that included collection of two sub-slab vapor samples and two indoor air samples (Appendix A). Shaw's report concluded that a complete pathway for vapor intrusion exists, but very little vapor is migrating from the sub-slab soil into indoor air (the slab is an effective barrier to limit vapor intrusion). The report also concluded that volatile organic compounds (VOCs) measured in indoor air did not pose an unacceptable health risk to workers.

The sample set to support the VI study was limited and conducted in the winter. As directed by the U.S. Environmental Protection Agency (EPA), EA Engineering, Science, and Technology, Inc. (EA) was tasked to collect a second round of indoor air and sub-slab vapor samples in the summer. The objectives were to evaluate the potential for seasonal VI variation and to verify the indoor air pathway does not pose an unacceptable risk to human health. The results and interpretations of the EA's September 2011 VI evaluation were discussed in the Data Evaluation Summary Report submitted in June 2012. A third round of indoor air and sub-slab vapor sampling was conducted in January 2013 to verify whether VI is occurring at discernible levels, which is discussed in the following sections.

2.0 COLLECTION OF INDOOR AIR AND SUB-SLAB VAPOR SAMPLES

In September 2011, two indoor air samples, two sub-slab vapor samples, one duplicate, and one background air sample were collected at the former Bell Dry Cleaners facility as part of the VI evaluation. One outdoor ambient air sample was collected to evaluate potential background contribution of chemicals to indoor air. EPA Regional Screening Levels (RSLs) for Commercial/Industrial Air (EPA 2012a) were used for comparison purposes in this evaluation. Indoor air, sub-slab, and background samples were collected in the same locations during the January 2013 sampling event.

During the September 2011 and January 2013 sampling events, indoor air samples ASI-101, duplicate indoor air samples ASI-101-DUP, and sub-slab vapor samples ASS-101were collected near the former sump located toward the northern end of the building, adjacent to the stage. Indoor air samples ASI-102 and sub-slab vapor samples ASS-102 were collected near the center of the leased space that formerly housed the dry cleaning business. The background samples designated ASBKG were collected in the parking lot of the Cypress Shopping Center in an upwind location. The sample locations are illustrated in the Shaw 2008 VI study (Appendix A). Samples were collected as described below.

2.1 FIELD ACTIVITIES

Field activities began with installation and leak testing of sub-slab sampling ports, followed by collection of sub-slab, indoor air, and background air samples as described below. Leak testing was performed with a photoionization detector (i.e., ppbRAE Model PGM-7240 ppb VOC Monitor [ppbRAE]).

Prior to sampling, the serial number of the 6-L Summa® canister (provided by the EPA Region 6 Laboratory) and associated flow regulator (8-hour) were recorded on the field sampling form. Sample identification, sample start date/time, vacuum gauge pressure, and required analysis (EPA Method TO-15 SIM) were recorded on the field sampling form. The canisters were delivered under a vacuum pressure of no less than -25 inches (in.) of mercury in Hg.

2.1.1 Sub-Slab Vapor Sample Collection

Sample locations during the January 2013 sampling event were selected as close as possible to the September 2011 sampling locations. The September 2011 sampling locations were selected by first completing a visual assessment of the condition of the floor. The locations of the sub-slab vapor points were selected to be out of the line of traffic, away from major cracks and other floor penetrations (sumps, pipes, etc.), and a minimum of 5 feet from an exterior wall. The following procedures were followed for the selection and installation of each sub-slab vapor point within the structure sampled during the field investigation.

- Once the location was determined, a ⅜-in.-diameter hole was drilled approximately 1-in. below the concrete floor slab using an electric hammer drill. A 1-in.-diameter drill bit was then used to over drill the top 0.5 in. of the borehole to create an annular space for the surface seal.
- Concrete dust and flooring material were swept away from the drill hole and wiped with a dampened towel.
- Teflon®-lined polyethylene tubing (0.25 in. outside diameter by ⅛-in. inside diameter, and approximately 3 feet long) was then inserted into the borehole drilled in the concrete floor, extending no further than 2 in. below the bottom of the floor slab.
- Melted beeswax was poured around the tubing at the floor penetration and allowed to set tightly around the tubing, then Portland cement was placed over the top for an additional seal.
- Once sub-slab vapor points were installed and the beeswax and cement were significantly dry, leak tests were performed using helium tracer gas. A leak test bucket was used to infuse the area surrounding the sub-slab vapor point with helium; once helium detector concentrations indicated approximately 100 percent helium within the leak bucket, a GilAir 5 air pump was used to purge the sub-slab vapor point of approximately 2–3 liters of air. The purge air is discharged into a tedlar bag connected directly to the air pump. The tedlar bag was then purged, first with the ppbRAE to record total VOC

concentrations and then with the helium detector to assess the competency of sub-slab seal, the associated readings were recorded on the field sampling form.

- A 6-L Summa® canister with a vacuum gauge and flow controller with collection over an 8-hour period were connected to the sample tubing using a compression fitting and placed on the floor adjacent to the sampling point.

One sub-slab vapor sample was collected from each of the temporary sub-slab vapor points installed in the building from beneath the concrete slab. Following the 8-hour collection period, the canister valves were closed to terminate sample collection. Flow regulator ending gauge pressures and sample end times were recorded on the field sampling forms.

During the January 2013 sampling event, one of the sub-slab vapor samples (ASS-101-01232013) was not submitted to the laboratory because a sub-surface obstruction was discovered at the end of sample collection. The sample port was cleared and a second sub-slab sample (ASS-101-01242013) was collected the following day and submitted to the laboratory for analysis.

Upon completion of the sampling, the temporary sub-slab sampling points were removed and sealed with hydraulic cement.

2.1.2 Indoor Air Sample Collection

Two indoor air samples were collected concurrent with the sub-slab samples during the VI evaluations. Indoor air samples were set up to collect a representative air sample from within the breathing zone (i.e., 3–5 feet above the floor).

Following the 8-hour collection period, the canister valves were closed to terminate sample collection. Flow regulator ending gauge pressures and sample end times were recorded on the field sampling forms.

2.1.3 Outdoor Ambient Air Sampling

One outdoor ambient air sample was collected concurrent with the sub-slab vapor and indoor air sampling to represent outdoor ambient air quality for the sampling event. The outdoor ambient air sample was collected at an upwind location of the study area.

Outdoor ambient air sample was set up to collect a representative air sample from within the breathing zone (i.e., 3–5 feet above the ground surface) during a sample period corresponding with other sample types.

2.1.4 Field Duplicate/Quality Control Sampling

One field quality control sample or duplicate sample was collected. A field duplicate was collected at a select indoor air sampling location (ASI-101). At the indoor air duplicate sampling

location, two canisters were set up adjacent to each other with sample ports left open for the same amount of time for sample collection.

2.1.5 Sample Submission

Once samples were collected pertinent sample information was recorded on sample tags, chain-of-custody records were generated with Scribe, and canisters were repackaged into the originating cases and hand delivered to the EPA Region 6 Laboratory in Houston, Texas. Samples were submitted for VOC analysis by EPA Method TO-15 SIM.

3.0 INDOOR AIR AND SUB-SLAB VAPOR SAMPLE RESULTS

Sample results for location ASI-101, collected near the former sump, and location ASI-102, collected near the center of the room are presented in Tables 1 through 4. September 2011 results are reported in Tables 1 and 2; January 2013 results are reported in Tables 3 and 4. Reportable concentrations of contaminants of concern (COCs) tetrachloroethylene (PCE), trichloroethylene (TCE), cis-1,2 dichloroethylene (cis-1,2 DCE), and trans-1,2 dichloroethylene (trans-1,2 DCE), were observed in both indoor air and sub-slab vapor samples. Trans-1,2 DCE results for samples collected during the January 2013 sampling event were not reported by the laboratory.

Sub-slab vapor samples ASS-101 and ASS-102, presented in Table 5, reported PCE concentrations of 58,000 micrograms per cubic meter ($\mu g/m^3$) and 140,000 $\mu g/m^3$, and TCE concentrations of 5,400 $\mu g/m^3$ and 6,400 $\mu g/m^3$, respectively in September 2011. January 2013 PCE concentrations were reported at 170,000 $\mu g/m^3$ at ASS-101 and at 410,000 $\mu g/m^3$ at ASS-102. TCE concentrations were detected at 20,000 $\mu g/m^3$ at ASS-101 and at 11,000 $\mu g/m^3$ at ASS-102 in January 2013. These findings are consistent with typical results from multiple sample events spaced over a period of months during different seasonal conditions and when building heating and air conditioning systems vary (i.e., heating in winter, cooling in summer). During the September 2011 event, the high temperature was 92°F. During the January 2013 sampling event, the weather was cool early in the morning with a temperature of 50°F and warmer in the late afternoon with a high of 70°F. Building depressurization can influence soil vapor to be drawn to near sub-slab areas and eventually into buildings through preferential pathways such as drain tiles, holes, and cracks in a building foundation. Heating systems, when operating, can promote vapor flow pathways in the subsurface and potentially into buildings by decreasing internal air pressure, which creates a pressure differential between near sub-slab and a building's interior space. This phenomenon creates a vacuum effect that enhances advection from the subsurface into buildings, also known as "the stack effect".

Indoor air samples, ASI-101 and ASI-102 reported PCE concentrations below the commercial/industrial Carcinogenic Screening Levels with concentrations of 36 $\mu g/m^3$ and 26 $\mu g/m^3$ in September 2011 and 8.2 $\mu g/m^3$ and 6.4 $\mu g/m^3$ in January 2013, respectively

(Figure 5-1). The September 2011 indoor air samples ASI-101and ASI-102 reported TCE concentrations of 4.4 $\mu g/m^3$ and 3.5 $\mu g/m^3$, respectively, which are above the commercial/industrial Carcinogenic Screening Level (i.e., EPA Commercial/Industrial RSL) of 3 $\mu g/m^3$. Indoor air TCE concentrations in January 2013 were reported at 1.6 $\mu g/m^3$ (ASI-101) and 1.3 $\mu g/m^3$ (ASI-102), which were both below the previously-noted screening levels (Figure 5-2). It should be noted that the outdoor ambient air sample collected in September 2011 reported significant background concentrations of both PCE (14 $\mu g/m^3$) and TCE (0.8 $\mu g/m^3$), while the January 2013 outdoor ambient air sample reported PCE (0.34 $\mu g/m^3$) and TCE (<0.27 $\mu g/m^3$) at negligible concentrations. These differing seasonal background results appeared to directly influence indoor air concentrations with respect to indoor air screening levels for TCE.

Based on a commercial/industrial exposure scenario, the cumulative carcinogenic risk was within the risk management range for carcinogens (i.e., 1E-04 to 1E-06) and the cumulative hazard index was less than 1 for noncarcinogens. The screening level comparison values are included in Tables 1 through 4.

Concentrations of both cis-1,2 DCE and trans-1,2 DCE were present in both indoor air samples collected in September 2011; however, there is no Carcinogenic Screening Level for these compounds and they were below the Noncancer Screening Levels. Only concentrations of cis-1,2 DCE were reported in indoor air samples collected in January 2013; trans-1,2 DCE concentrations were not reported by the laboratory. Table 5 summarizes PCE and TCE concentrations detected in sub-slab soil vapor and indoor air since 2008.

3.1 BUILDING SPECIFIC ATTENUATION RATE

As a part of the VI evaluation, estimated vapor attenuation rates were calculated to determine if the observed attenuation factors were similar to those observed during the 2008 evaluation and to assess the competency of the concrete slab as an effective barrier to VI. Vapor attenuation is the reduction in concentration of COCs that occurs during vapor migration from the sub-slab environment to indoor air. Processes such as diffusion, advection, sorption, etc., along with indoor air dilution when vapors enter a building determine the magnitude of attenuation factors. These physical and chemical attenuation processes can be quantified by determining the site-specific vapor intrusion attenuation factor (AF_{VI}), which is defined as the ratio of the indoor air concentration arising from vapor intrusion ($C_{IA\text{-}VI}$) to the sub-slab vapor concentration (C_{SV}) at the measured point in the vapor migration pathway:

$$AF_{VI} = C_{IA\text{-}VI} / C_{SV}$$

Calculated site-specific attenuation factors for the COCs are shown in Tables 1 through 4. Attenuation factors for PCE ranged from 1.6E-05 to 6.2E-04 with an average attenuation factor of 2.1E-04, and TCE attenuation factors ranged from 8.0E-05 to 8.1E-04with an average of 3.9E-04 based on concentrations reported during the 2011 and 2013 VI evaluation. These attenuation factors are in the same order of magnitude as those reported during the 2008 VI

evaluation and are within one order of magnitude of reasonably accepted sub-slab soil vapor empirical data in EPA's database (EPA 2012b).

3.2 INDOOR AIR AND SUB-SLAB VAPOR RATIOS

Additionally, EA evaluated indoor air and sub-slab vapor ratios for the September 2011 and January 2013 sampling events as part of a multiple lines of evidence approach. The potential source and significance of COCs, detected in sub-slab vapor above ambient air levels, can be evaluated by examining the sub-slab to indoor air concentration ratio. When COCs (primarily CVOCs) are detected in the sub-slab vapor sample, sub-slab to indoor air ratios less than 1 (indoor air concentration higher than the sub-slab vapor concentration) suggest that there may be an indoor air source of the COCs detected in the structure. Ratios greater than 1 indicate a subsurface source of some portion of the vapors, but are not necessarily indicative of definitive impacts to indoor air, depending on the degree of attenuation that occurs as the vapors migrate across the slab as previously discussed. The potential for vapor intrusion impacts increases with higher sub-slab to indoor air ratios; ratios for the September 2011 and January 2013 analytical data were calculated only if a sub-slab vapor concentration was reported above the method detection limit and are provided in Tables 1 through 4. A ratio of 1,000 and greater was exceeded for PCE and TCE at both sampling locations and these same compounds are known ground water COCs at the site.

3.3 CONSTITUENT RATIOS

Evaluating the ratio between concentrations of different constituents in sub-slab vapor and indoor air can be utilized to identify potential vapor intrusion as part of a multiple lines of evidence approach. If the ratios of constituents in indoor air samples are similar to the ratios observed in soil vapor, it may be concluded that the two are associated and indoor air concentrations are directly related to a contribution from a subsurface source. This is typically valid when sub-slab soil vapor concentrations are significantly higher than indoor air concentrations, as is the case at this site. Due to the fact that subsurface VOCs will move into a building at similar rates, a similar constituent ratio indicates that VOCs detected in indoor air are the likely the result of VI from a subsurface source. Table 5 summarizes the primary COC ratio (TCE/PCE) for sub-slab soil vapor and indoor air data generated since 2008.

4.0 CONCLUSIONS

Based on the September 2011 and January 2013 evaluations, indoor air and sub-slab vapor sample concentrations for PCE and TCE indicate that VI is likely occurring at discernible levels for COCs. Indoor air concentrations of PCE and TCE are above the background outdoor ambient air concentrations, show a similar constituent profile and ratio, and are significantly below sub-slab vapor sample concentrations. Sub-slab vapor concentrations are of significant levels and would continue to present a potential for vapor intrusion to occur.

Presently, observed concentrations indicate the carcinogenic risks of this vapor intrusion are within the risk management range for carcinogens (i.e., 1E-04 to 1E-06) and the cumulative hazard index was less than 1 for noncarcinogens. This means the former dry cleaners location is currently suitable for commercial or industrial use. However, sub-slab vapor concentrations are of significant levels and will continue to present a potential for increased risk from vapor intrusion. Two possible mechanisms would be: 1.) If the attenuation rate decreases, the risks and hazards to building occupants may increase significantly. The attenuation rate may decrease for a variety of reasons. For example, if the building slab cracks as it ages or the vapor barrier is somehow damaged during remodeling or routine maintenance, the contaminants in the soil gas under the slab could more readily enter the occupied space, increasing potential health risks to the occupants. 2.) If sub-slab concentrations increase, then indoor air concentrations may also increase significantly. For example, the remedial action for source mitigation is not planned in the next year and may not occur for several years, and the source is not currently contained. If source migration occurs, it could increase COC concentrations beneath the slab.

5.0 REFERENCES

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EPA . 2012b. EPA's Vapor Intrusion Database: Evaluation and Characterization of Attenuation Factors for Chlorinated Volatile Organic Compounds and Residential Buildings. Office of Solid Waste and Emergency Response. 16 March 2012.

TABLES

TABLE 5-1. INDUSTRIAL AIR SCREENING LEVEL COMPARISON FOR ASI-101
SEPTEMBER 2011

Contaminant	CAS No.	Sub-slab Concentration ($\mu g/m^3$)	Qualifier	Indoor Air Concentration ($\mu g/m^3$)	Qualifier	Sub-slab to Indoor Air Attenuation Factor	Sub-slab to Indoor Air Ratio	Background Outdoor Air Concentration AS-BKG ($\mu g/m^3$)	Qualifier	USEPA USEPA OSWER Target Indoor Air Concentrations Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [$R=10^{-4}$, HI=1) ($\mu g/m3$)	Commercial/Industrial Carcinogenic Screening Level ($\mu g/m^3$)	Noncancer Screening Level ($\mu g/m^3$)	Carcinogenic Risks	Noncancer Hazard
Benzene	71-43-2	< 26	U	0.89		--	--	0.45		3.1E+01	1.6E+00	1.3E+02	5.6E-07	6.8E-03
Carbon Tetrachloride	56-23-5	< 50	U	0.47		--	--	0.43		1.6E+01	2.0E+00	4.4E+02	2.4E-07	1.1E-03
Chloroethane	75-00-3	< 42	U	< 0.11	U	--	--	< 0.11	U	1.0E+04	--	4.4E+04	--	--
Chloroform	67-66-3	< 39	U	0.33		--	--	0.12		1.1E+01	5.3E-01	4.3E+02	6.2E-07	7.7E-04
Chloromethane	74-87-3	< 25	U	1.4		--	--	1.1		--	--	3.9E+02	--	3.6E-03
Dibromoethane, 1,2-	106-93-4	< 62	U	< 0.15	U	--	--	< 0.15	U	2.0E-01	2.0E-02	3.9E+01	--	--
Dichlorobenzene, 1,4-	106-46-7	< 48	U	11		--	--	0.13		8.0E+02	1.1E+00	3.5E+03	1.0E-05	3.1E-03
Dichloroethane, 1,1-	75-34-3	< 32	U	< 0.080	U	--	--	< 0.08	U	5.0E+02	7.7E+00	--	--	--
Dichloroethylene, 1,1-	75-35-4	< 32	U	< 0.079	U	--	--	< 0.079	U	2.0E+02	--	8.8E+02	--	--
Dichloroethylene, 1,2-cis- (1)	156-59-2	1,000		3.0		3.0E-03	333	0.12		3.5E+01	--	2.6E+02	--	1.2E-02
Dichloroethylene, 1,2-trans-	156-60-5	71		0.11		1.5E-03	645	< 0.079	U	7.0E+01	--	2.6E+02	--	4.2E-04
Dichloropropane, 1,2-	78-87-5	< 55	U	<0.14	U	--	--	< 0.14	U	4.0E+00	1.2E+00	1.8E+01	--	--
Dichloropropene, 1,3-cis-	10061-01-5	< 36	U	< 0.091	U	--	--	< 0.091	U	--	--	--	--	--
Dichloropropene, 1,3-trans-	10061-02-6	< 54	U	<0.14	U	--	--	< 0.14	U	--	--	--	--	--
Ethylbenzene	100-41-4	< 52	U	0.74		--	--	0.28		2.2E+02	4.9E+00	4.4E+03	1.5E-07	1.7E-04
Tetrachloroethane, 1,1,2,2-	79-34-5	< 55	U	<0.14	U	--	--	< 0.14	U	4.2E+00	2.1E-01	--	--	--
Tetrachloroethylene (2)	127-18-4	58,000	E	36	E	6.2E-04	1,611	14	UJ	8.1E+01	4.7E+01	1.8E+02	7.6E-07	2.1E-01
Trichloroethane, 1,1,1-	71-55-6	< 44	U	<0.11	U	--	--	< 0.11	U	2.2E+03	--	2.2E+04	--	--
Trichloroethane, 1,1,2-	79-00-5	< 65	U	<0.16	U	--	--	< 0.16	U	1.5E+01	7.7E-01	8.8E-01	--	--
Trichloroethylene	79-01-6	5,400	E	**4.4**		8.1E-04	1,227	0.80		2.2E+00	3.0E+00	8.8E+00	1.5E-06	5.0E-01
Vinyl Acetate	108-05-4	< 28	U	<0.070	U	--	--	< 0.070	U	2.0E+02	--	8.8E+02	--	--
Vinyl Chloride	75-01-4	< 20	U	<0.051	U	--	--	< 0.051	U	2.8E+01	2.8E+00	4.4E+02	--	--
												Total Carcinogenic Risk or Hazard Index	**1.4E-05**	**7.3E-01**

Notes:

(1) - The trans-1,2-dichloroethylene noncancer EPA Regional Screening Level was used for cis-1,2-dichloroethylene.

(2) - The toxicity reference values for Tetrachloroethylene changed in February 2012, the screening levels listed in this table reflect the new toxcity values.

Carcinogenic risk values were based on a 1E-06 risk level. Noncancer hazard quotient values were based on a hazard quotient of 1.

The EPA Regional Screening Levels are provided on-line at: www.epa.gov/region09/superfund/prg/index.html. November 2012

CAS No. = Chemical Abstract Services Registry Number

USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).

-- = Not applicable or not available

U = The analyte was not detected at reported quantitation limit

UJ = The analyte was analyzed for, but was not detected above the adjusted method detection limit or was detected in a blank sample at a similar concentration. The reported adjusted quantitation limit is approximate and may be inaccurate or imprecise.

E = The reported concentration exceeds the instrument calibration range. The estimated value was determined by mathematical extrapolation of the calibration curve.

$\mu g/m^3$ = Microgram(s) per cubic meter

TABLE 5-2. INDUSTRIAL AIR SCREENING LEVEL COMPARISON FOR ASI-102
SEPTEMBER 2011

Contaminant	CAS No.	Sub-slab Concentration ($\mu g/m^3$)	Qualifier	Indoor Air Concentration ($\mu g/m^3$)	Qualifier	Sub-slab to Indoor Air Attenuation Factor	Sub-slab to Indoor Air Ratio	Background Outdoor Air Concentration AS-BKG ($\mu g/m^3$)	Qualifier	USEPA USEPA OSWER Target Indoor Air Concentrations Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-4}, HI=1) ($\mu g/m3$)	Commercial/Industrial Carcinogenic Screening Level ($\mu g/m^3$)	Noncancer Screening Level ($\mu g/m^3$)	Carcinogenic Risks	Noncancer Hazard
Benzene	71-43-2	< 51	U	0.73		--	--	0.45		3.1E+01	1.6E+00	1.3E+02	4.6E-07	5.6E-03
Carbon Tetrachloride	56-23-5	< 100	U	0.42		--	--	0.43		1.6E+01	2.0E+00	4.4E+02	2.1E-07	9.5E-04
Chloroethane	75-00-3	< 84	U	< 0.11	U	--	--	< 0.11	U	1.0E+04	--	4.4E+04	--	--
Chloroform	67-66-3	130		0.26		2.0E-03	500	0.12		1.1E+01	5.3E-01	4.3E+02	4.9E-07	6.0E-04
Chloromethane	74-87-3	< 50	U	1.2		--	--	1.1		--	--	3.9E+02	--	3.1E-03
Dibromoethane, 1,2-	106-93-4	< 120	U	< 0.15	U	--	--	< 0.15	U	2.0E-01	2.0E-02	3.9E+01	--	--
Dichlorobenzene, 1,4-	106-46-7	< 96	U	6.6		--	--	0.13		8.0E+02	1.1E+00	3.5E+03	6.0E-06	1.9E-03
Dichloroethane, 1,1-	75-34-3	< 64	U	< 0.080	U	--	--	< 0.08	U	5.0E+02	7.7E+00	--	--	--
Dichloroethylene, 1,1-	75-35-4	< 63	U	< 0.079	U	--	--	< 0.079	U	2.0E+02	--	8.8E+02	--	--
Dichloroethylene, 1,2-cis- (1)	156-59-2	63		2.5		4.0E-02	25	0.12		3.5E+01	--	2.6E+02	--	9.6E-03
Dichloroethylene, 1,2-trans-	156-60-5	< 63	U	0.095		--	--	< 0.079	U	7.0E+01	--	2.6E+02	--	3.7E-04
Dichloropropane, 1,2-	78-87-5	< 110	U	< 0.14	U	--	--	< 0.14	U	4.0E+00	1.2E+00	1.8E+01	--	--
Dichloropropene, 1,3-cis-	10061-01-5	< 73	U	< 0.091	U	--	--	< 0.091	U	--	--	--	--	--
Dichloropropene, 1,3-trans-	10061-02-6	< 110	U	< 0.14	U	--	--	< 0.14	U	--	--	--	--	--
Ethylbenzene	100-41-4	< 100	U	0.61		--	--	0.28		2.2E+02	4.9E+00	4.4E+03	1.2E-07	1.4E-04
Tetrachloroethane, 1,1,2,2-	79-34-5	< 110	U	< 0.14	U	--	--	< 0.14	U	4.2E+00	2.1E-01	--	--	--
Tetrachloroethylene (2)	127-18-4	140,000	E	26	UJ	1.9E-04	5,385	14	UJ	8.1E+01	4.7E+01	1.8E+02	5.5E-07	1.5E-01
Trichloroethane, 1,1,1-	71-55-6	< 87	U	< 0.11	U	--	--	< 0.11	U	2.2E+03	--	2.2E+04	--	--
Trichloroethane, 1,1,2-	79-00-5	< 130	U	< 0.16	U	--	--	< 0.16	U	1.5E+01	7.7E-01	8.8E-01	--	--
Trichloroethylene	79-01-6	6,400		**3.5**		5.5E-04	1,829	0.80		2.2E+00	3.0E+00	8.8E+00	1.2E-06	4.0E-01
Vinyl Acetate	108-05-4	< 56	U	< 0.070	U	--	--	< 0.070	U	2.0E+02	--	8.8E+02	--	--
Vinyl Chloride	75-01-4	< 41	U	< 0.051	U	--	--	< 0.051	U	2.8E+01	2.8E+00	4.4E+02	--	--
												Total Carcinogenic Risk or Hazard Index	**9.0E-06**	**5.7E-01**

Notes:

(1) - The trans-1,2-dichloroethylene noncancer EPA Regional Screening Level was used for cis-1,2-dichloroethylene.

(2) - The toxicity reference values for Tetrachloroethylene changed in February 2012, the screening levels listed in this table reflect the new toxcity values.

Carcinogenic risk values were based on a 1E-06 risk level. Noncancer hazard quotient values were based on a hazard quotient of 1.

The EPA Regional Screening Levels are provided on-line at: www.epa.gov/region09/superfund/prg/index.html. November 2012

CAS No. = Chemical Abstract Services Registry Number

USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).

U = The analyte was not detected at reported quantitation limit

UJ = The analyte was analyzed for, but was not detected above the adjusted method detection limit or was detected in a blank sample at a similar concentration. The reported adjusted quantitation limit is approximate and may be inaccurate or imprecise.

E = The reported concentration exceeds the instrument calibration range. The estimated value was determined by mathematical extrapolation of the calibration curve.

-- = Not applicable or not available

$\mu g/m^3$ = Microgram(s) per cubic meter

TABLE 5-3. INDUSTRIAL AIR SCREENING LEVEL COMPARISON FOR ASI-101
JANUARY 2013

Contaminant	CAS No.	Sub-slab Concentration ($\mu g/m^3$)	Qualifier	Indoor Air Concentration ($\mu g/m^3$)	Qualifier	Sub-slab to Indoor Air Attenuation Factor	Sub-slab to Indoor Air Ratio	Background Outdoor Air Concentration AS-BKG ($\mu g/m^3$)	Qualifier	USEPA	Commercial/Industrial			
										USEPA OSWER Target Indoor Air Concentrations Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [$R=10^{-4}$, HI=1) ($\mu g/m3$)	Carcinogenic Screening Level ($\mu g/m^3$)	Noncancer Screening Level ($\mu g/m^3$)	Carcinogenic Risks	Noncancer Hazard
Benzene	71-43-2	<160	U	2.1		--	--	2.5		3.1E+01	1.6E+00	1.3E+02	1.3E-06	1.6E-02
Carbon Tetrachloride	56-23-5	<310	U	<1.6	U	--	--	<1.6	U	1.6E+01	2.0E+00	4.4E+02	--	--
Chloroethane	75-00-3	<130	U	<0.66	U	--	--	<0.66	U	1.0E+04	--	4.4E+04	--	--
Chloroform	67-66-3	<240	U	<1.2	U	--	--	<1.2	U	1.1E+01	5.3E-01	4.3E+02	--	--
Chloromethane	74-87-3	<100	U	1.2		--	--	1.3		--	--	3.9E+02	--	3.1E-03
Dibromoethane, 1,2-	106-93-4	<380	U	<1.9	U	--	--	<1.9	U	2.0E-01	2.0E-02	3.9E+01	--	--
Dichlorobenzene, 1,4-	106-46-7	<300	U	<1.5	U	--	--	<1.5	U	8.0E+02	1.1E+00	3.5E+03	--	--
Dichloroethane, 1,1-	75-34-3	<200	U	<1.0	U	--	--	<1.0	U	5.0E+02	7.7E+00	--	--	--
Dichloroethylene, 1,1-	75-35-4	<200	U	<1.0	U	--	--	<0.99	U	2.0E+02	--	8.8E+02	--	--
Dichloroethylene, 1,2-cis- (1)	156-59-2	2,900		2.0		6.9E-04	1,450	<0.20	U	3.5E+01	--	2.6E+02	--	7.7E-03
Dichloroethylene, 1,2-trans-	156-60-5	--		--		--	--	--		7.0E+01	--	2.6E+02	--	--
Dichloropropane, 1,2-	78-87-5	<230	U	<1.2	U	--	--	<1.2	U	4.0E+00	1.2E+00	1.8E+01	--	--
Dichloropropene, 1,3-cis-	10061-01-5	<230	U	<1.1	U	--	--	<1.1	U	--	--	--	--	--
Dichloropropene, 1,3-trans-	10061-02-6	<230	U	<1.1	U	--	--	<1.1	U	--	--	--	--	--
Ethylbenzene	100-41-4	<220	U	<1.1	U	--	--	<1.1	U	2.2E+02	4.9E+00	4.4E+03	--	--
Tetrachloroethane, 1,1,2,2-	79-34-5	<340	U	<1.7	U	--	--	<1.7	U	4.2E+00	2.1E-01	--	--	--
Tetrachloroethylene (2)	127-18-4	170,000		8.2		4.8E-05	20,732	0.34		8.1E+01	4.7E+01	1.8E+02	1.7E-07	4.7E-02
Trichloroethane, 1,1,1-	71-55-6	<270	U	<1.4	U	--	--	<1.4	U	2.2E+03	--	2.2E+04	--	--
Trichloroethane, 1,1,2-	79-00-5	<270	U	<1.4	U	--	--	<1.4	U	1.5E+01	7.7E-01	8.8E-01	--	--
Trichloroethylene	79-01-6	20,000		1.6		8.0E-05	12,500	<0.27	U	2.2E+00	3.0E+00	8.8E+00	5.3E-07	1.8E-01
Vinyl Acetate	108-05-4	--		--		--	--	--		2.0E+02	--	8.8E+02	--	--
Vinyl Chloride	75-01-4	<130	U	<0.13	U	--	--	<0.13	U	2.8E+01	2.8E+00	4.4E+02	--	--
												Total Carcinogenic Risk or Hazard Index	**2.0E-06**	**2.6E-01**

Notes:
(1) - The trans-1,2-dichloroethylene noncancer EPA Regional Screening Level was used for cis-1,2-dichloroethylene.
(2) - The toxicity reference values for Tetrachloroethylene changed in February 2012, the screening levels listed in this table reflect the new toxcity values.
Carcinogenic risk values were based on a 1E-06 risk level. Noncancer hazard quotient values were based on a hazard quotient of 1.
The EPA Regional Screening Levels are provided on-line at: www.epa.gov/region09/superfund/prg/index.html. November 2012
CAS No. = Chemical Abstract Services Registry Number
USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).
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E = The reported concentration exceeds the instrument calibration range. The estimated value was determined by mathematical extrapolation of the calibration curve.
$\mu g/m^3$ = Microgram(s) per cubic meter

TABLE 5-4. INDUSTRIAL AIR SCREENING LEVEL COMPARISON FOR ASI-102
JANUARY 2013

Contaminant	CAS No.	Sub-slab Concentration ($\mu g/m^3$)	Qualifier	Indoor Air Concentration ($\mu g/m^3$)	Qualifier	Sub-slab to Indoor Air Attenuation Factor	Sub-slab to Indoor Air Ratio	Background Outdoor Air Concentration AS-BKG ($\mu g/m^3$)	Qualifier	USEPA	Commercial/Industrial			
										USEPA OSWER Target Indoor Air Concentrations Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-4}, HI=1) (µg/m3)	Carcinogenic Screening Level ($\mu g/m^3$)	Noncancer Screening Level ($\mu g/m^3$)	Carcinogenic Risks	Noncancer Hazard
Benzene	71-43-2	5.8		2.3		--	3	2.5		3.1E+01	1.6E+00	1.3E+02	1.4E-06	1.8E-02
Carbon Tetrachloride	56-23-5	<31	U	<1.6	U	--	--	<1.6	U	1.6E+01	2.0E+00	4.4E+02	--	--
Chloroethane	75-00-3	<13	U	<0.66	U	--	--	<0.66	U	1.0E+04	--	4.4E+04	--	--
Chloroform	67-66-3	170		<1.2	U	1.2E-03	--	<1.2	U	1.1E+01	5.3E-01	4.3E+02	3.8E-07	4.7E-04
Chloromethane	74-87-3	<10	U	1.4		--	--	1.3		--	--	3.9E+02	--	3.6E-03
Dibromoethane, 1,2-	106-93-4	<38	U	<1.9	U	--	--	<1.9	U	2.0E-01	2.0E-02	3.9E+01	--	--
Dichlorobenzene, 1,4-	106-46-7	<30	U	<1.5	U	--	--	<1.5	U	8.0E+02	1.1E+00	3.5E+03	--	--
Dichloroethane, 1,1-	75-34-3	<20	U	<1.0	U	--	--	<1.0	U	5.0E+02	7.7E+00	--	--	--
Dichloroethylene, 1,1-	75-35-4	<20	U	<0.99	U	--	--	<0.99	U	2.0E+02	--	8.8E+02	--	--
Dichloroethylene, 1,2-cis- (1)	156-59-2	310		1.9		6.1E-03	163	<0.20	U	3.5E+01	--	2.6E+02	--	7.3E-03
Dichloroethylene, 1,2-trans-	156-60-5	--		--		--	--	--		7.0E+01	--	2.6E+02	--	--
Dichloropropane, 1,2-	78-87-5	<23	U	<1.2	U	--	--	<1.2	U	4.0E+00	1.2E+00	1.8E+01	--	--
Dichloropropene, 1,3-cis-	10061-01-5	<23	U	<1.1	U	--	--	<1.1	U	--	--	--	--	--
Dichloropropene, 1,3-trans-	10061-02-6	<23	U	<1.1	U	--	--	<1.1	U	--	--	--	--	--
Ethylbenzene	100-41-4	<22	U	<1.1	U	--	--	<1.1	U	2.2E+02	4.9E+00	4.4E+03	--	--
Tetrachloroethane, 1,1,2,2-	79-34-5	<34	U	<1.7	U	--	--	<1.7	U	4.2E+00	2.1E-01	--	--	--
Tetrachloroethylene (2)	127-18-4	410,000		6.4		1.6E-05	64,063	0.34		8.1E+01	4.7E+01	1.8E+02	1.4E-07	3.7E-02
Trichloroethane, 1,1,1-	71-55-6	<27	U	<1.4	U	--	--	<1.4	U	2.2E+03	--	2.2E+04	--	--
Trichloroethane, 1,1,2-	79-00-5	<27	U	<1.4	U	--	--	<1.4	U	1.5E+01	7.7E-01	8.8E-01	--	--
Trichloroethylene	79-01-6	11,000		1.3		1.2E-04	8,462	<0.27	U	2.2E+00	3.0E+00	8.8E+00	4.3E-07	1.5E-01
Vinyl Acetate	108-05-4	--	U	--	U	--	--	--		2.0E+02	--	8.8E+02	--	--
Vinyl Chloride	75-01-4	4.1	U	<0.13	U	--	--	<0.13	U	2.8E+01	2.8E+00	4.4E+02	4.6E-08	3.0E-04
												Total Carcinogenic Risk or Hazard Index	**2.4E-06**	**2.1E-01**

Notes:
(1) - The trans-1,2-dichloroethylene noncancer EPA Regional Screening Level was used for cis-1,2-dichloroethylene.
(2) - The toxicity reference values for Tetrachloroethylene changed in February 2012, the screening levels listed in this table reflect the new toxcity values.
Carcinogenic risk values were based on a 1E-06 risk level. Noncancer hazard quotient values were based on a hazard quotient of 1.
The EPA Regional Screening Levels are provided on-line at: www.epa.gov/region09/superfund/prg/index.html. November 2012
CAS No. = Chemical Abstract Services Registry Number
USEPA OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance).
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E = The reported concentration exceeds the instrument calibration range. The estimated value was determined by mathematical extrapolation of the calibration curve.
-- = Not applicable or not available
$\mu g/m^3$ = Microgram(s) per cubic meter

TABLE 5-5

SUMMARY OF PCE AND TCE SUB-SLAB AND INDOOR AIR CONCENTRATIONS AND TCE/PCE RATIOS

Sample Location	COC	February 2008		September 2011		January 2013	
		Sub-slab	Indoor Air	Sub-slab	Indoor Air	Sub-slab	Indoor Air
West Sump (Location 101)	PCE	47,300	9.5	58,000	36	170,000	8.2
	TCE	9,080	1.7	5,400	4.4	20,000	1.6
TCE/PCE Ratio		*0.192*	*0.179*	*0.093*	*0.122*	*0.118*	*0.195*
Center Room (Location 102)	PCE	59,700	14	140,000	26	410,000	6.4
	TCE	1,930	1.8	6,400	3.5	11,000	1.3
TCE/PCE Ratio		*0.032*	*0.129*	*0.046*	*0.135*	*0.027*	*0.203*

NOTE:
COC – Contaminant of Concern
PCE – Tetrachloroethylene
TCE – Trichloroethylene
Concentrations are presented in micrograms per liter ($\mu g/m^3$)
TCE/PCE ratios are unitless.

FIGURES

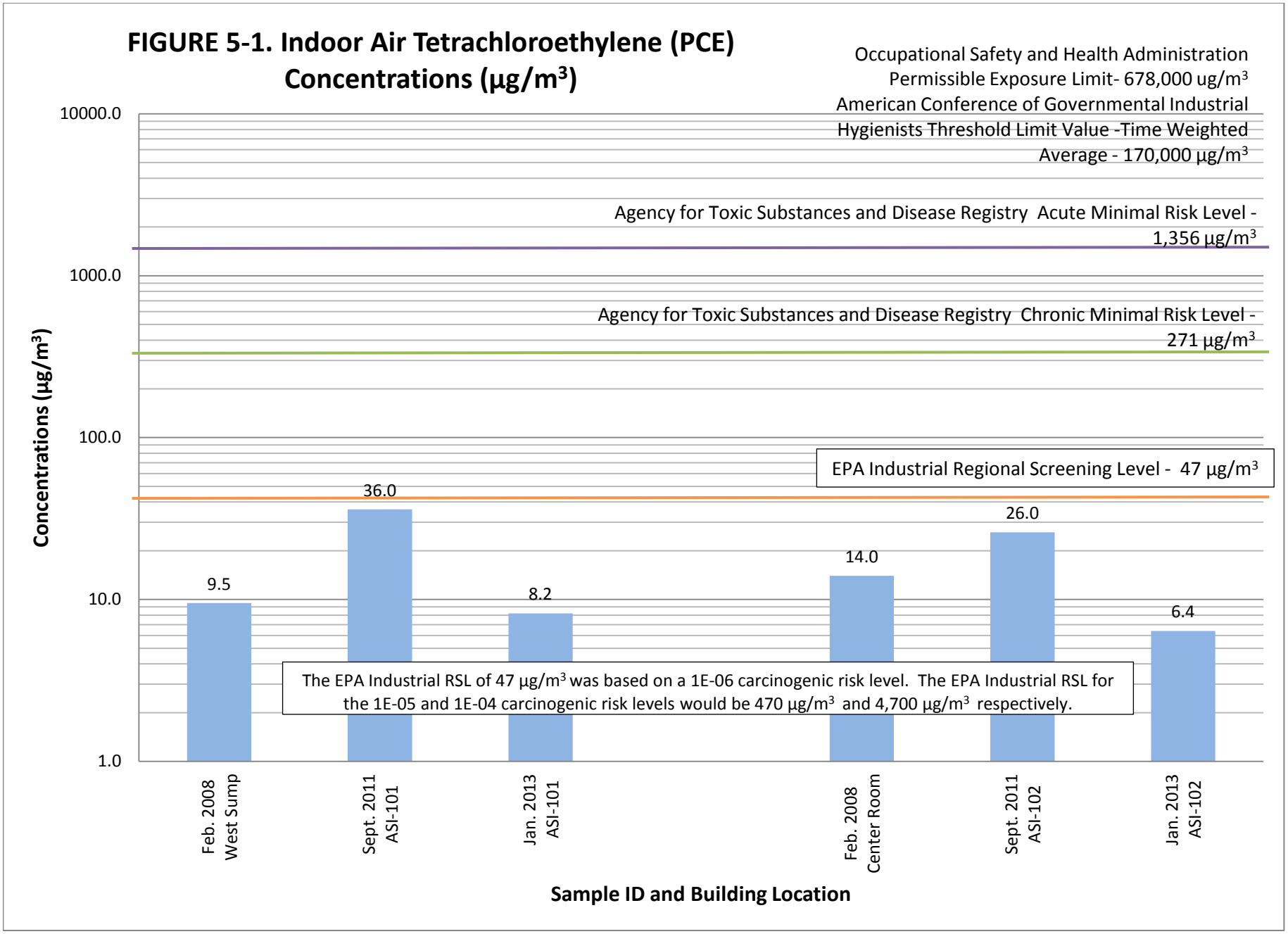
FIGURE 5-1. Indoor Air Tetrachloroethylene (PCE) Concentrations (µg/m³)
Occupational Safety and Health Administration Permissible Exposure Limit- 678,000 ug/m³
American Conference of Governmental Industrial Hygienists Threshold Limit Value -Time Weighted Average - 170,000 µg/m³
Agency for Toxic Substances and Disease Registry Acute Minimal Risk Level - 1,356 µg/m³
Agency for Toxic Substances and Disease Registry Chronic Minimal Risk Level - 271 µg/m³
EPA Industrial Regional Screening Level - 47 µg/m³
The EPA Industrial RSL of 47 µg/m³ was based on a 1E-06 carcinogenic risk level. The EPA Industrial RSL for the 1E-05 and 1E-04 carcinogenic risk levels would be 470 µg/m³ and 4,700 µg/m³ respectively.
Concentrations (µg/m³)
10000.0
1000.0
100.0
10.0
1.0
9.5
36.0
8.2
14.0
26.0
6.4
Feb. 2008 West Sump
Sept. 2011 ASI-101
Jan. 2013 ASI-101
Feb. 2008 Center Room
Sept. 2011 ASI-102
Jan. 2013 ASI-102
Sample ID and Building Location

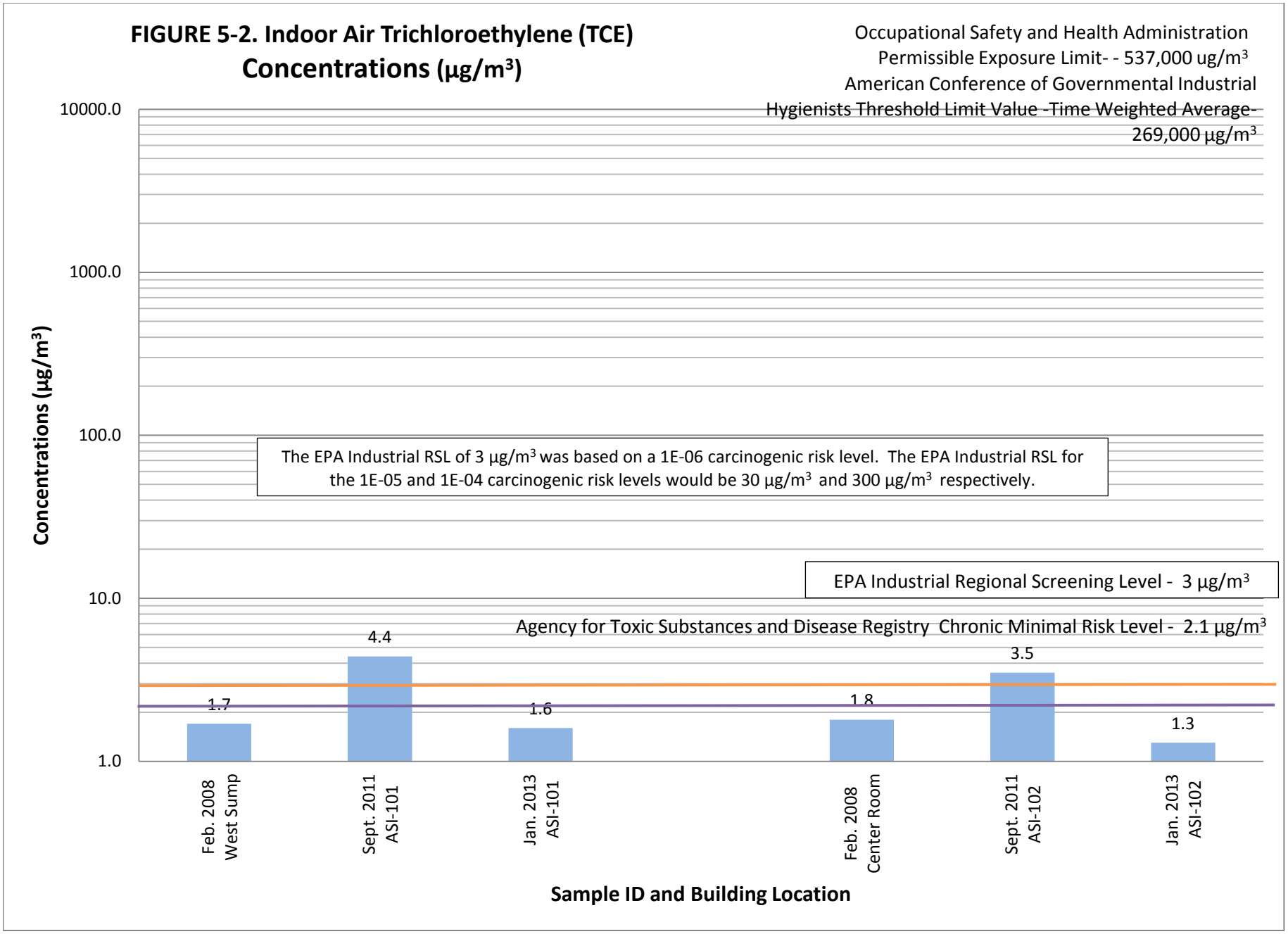
FIGURE 5-2. Indoor Air Trichloroethylene (TCE) Concentrations (µg/m³)
Occupational Safety and Health Administration Permissible Exposure Limit- - 537,000 ug/m³
American Conference of Governmental Industrial Hygienists Threshold Limit Value -Time Weighted Average- 269,000 µg/m³
10000.0
1000.0
100.0
10.0
1.0
Concentrations (µg/m³)
The EPA Industrial RSL of 3 µg/m³ was based on a 1E-06 carcinogenic risk level. The EPA Industrial RSL for the 1E-05 and 1E-04 carcinogenic risk levels would be 30 µg/m³ and 300 µg/m³ respectively.
EPA Industrial Regional Screening Level - 3 µg/m³
Agency for Toxic Substances and Disease Registry Chronic Minimal Risk Level - 2.1 µg/m³
1.7
4.4
1.6
1.8
3.5
1.3
Feb. 2008 West Sump
Sept. 2011 ASI-101
Jan. 2013 ASI-101
Feb. 2008 Center Room
Sept. 2011 ASI-102
Jan. 2013 ASI-102
Sample ID and Building Location

APPENDIX A

Remedial Investigation Vapor Intrusion Study

Shaw Environmental, Inc.
6330 Commerce Drive
Suite 190
Irving, TX 75063
214.277-7800
FAX: 214.277-8600

Shaw™ Shaw Environmental, Inc.

LETTER OF TRANSMITTAL

Date: **July 25, 2008**

Attention: **Marilyn Czimer Long, P.G.**

Company: **TCEQ**
Building D (MC-136)
12100 Park 35 Circle
Austin, TX 78753

Project Name: **Jones Road, Houston, Texas**

Shaw Project No: **129389**

X	PER YOUR REQUEST		FOR YOUR USE	X	OVERNIGHT DELIVERY		COURIER
	FOR YOUR APPROVAL	X	FOR YOUR RECORD		HAND CARRIED		1st CLASS MAIL
	FOR YOUR REVIEW		PLEASE RETURN		FAX TO NO.		

COPIES	SHEETS	DATED	DESCRIPTION
3	**na**	**July 2008**	**Vapor Intrusion Study, 1 original, 2 comb-bound hardcopies, and one e-copy on disc**

Please call with any questions or comments.

COPIES TO: **Shaw File**	**Amandeep Kang, PE, Engineer I** For **Charles Gaddy, PE, Project Manager**

JONES ROAD GROUNDWATER PLUME SITE
Site Number SUP075

VAPOR INTRUSION STUDY

HARRIS COUNTY, TEXAS

Prepared for

TCEQ

Prepared by

Shaw Environmental, Inc.

July 2008

Amandeep Kang, PE
Engineer I

For/ **Charles Gaddy, PE**
Project Manager

Shaw Project No. 129389

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Appendix A - Figure 1: Vapor Intrusion Study Area Map
Figure 2: Schematic of Business
Appendix B - Site Survey
Appendix C - Analytical Report
Appendix D - Analytical Data Summary
Appendix E - OSWER Table 2.b

1 INTRODUCTION

1.1 Project Background

The Jones Road Groundwater Plume site (Site) is located approximately one-half mile north of the intersection of Jones Road and FM 1960 in a mixed residential, urban/light industry area outside the Houston city limits, Harris County, Texas. The site was listed on the federal Superfund program National Priorities List (NPL) on September 29, 2003, based on the presence of hazardous substances, including tetrachloroethene (PCE), cis-1,2-dichloroethene (DCE), vinyl chloride, and tricholorethene (TCE), in drinking water wells.

Based on available site information and environmental testing results to date, the contaminants are believed to have been released from the former Bell Dry Cleaners which was located at 11600 Jones Road. PCE is a manufactured chemical that is widely used for cleaning of fabrics. The PCE plume is documented to extend from the southern end of Echo Spring Lane to Tower Oaks Boulevard and from Timber Hollow to the eastern side of Jones Road. Based on available project information, the owner of the former dry cleaner reportedly stopped using PCE as a solvent in cleaning operations in mid-2002. Figure 1 (Appendix A) presents a general site map of the project area.

Approximately two hundred thirty one water wells have been sampled by the Texas Commission on Environmental Quality (TCEQ) since February 2002. Currently, about 170 wells are sampled every three months by the TCEQ in order to protect human health at the site. The sampling area is larger than the known contamination plume, and includes wells with state-supplied filtration systems where confirmed contamination concentrations of PCE were above five parts per billion, which is the maximum contaminant level (MCL) for PCE.

Additional information concerning the history of the site and current project status can be found on the Internet at the TCEQ web site:

(http://www.tceq.state.tx.us/remediation/superfund/jonesroad/index.html)

2 VAPOR INTRUSION STUDY

2.1 Purpose of Study

Vapor Intrusion is defined herein as the migration of volatile chemicals from the subsurface into overlying buildings. Volatile chemicals in buried wastes and/or contaminated groundwater and soil can emit vapors that may migrate through subsurface soils and into indoor air spaces of overlying buildings. Based on available project information supplied by the TCEQ, the Site has a potential vapor intrusion condition that may impact the health of workers in the shopping center where the former Bell Dry Cleaner is located. The results of this study will aid TCEQ in determining whether complete pathway(s) for vapor intrusion exist and if the concentrations of the indoor vapor will pose an unacceptable risk of chronic health effects due to long-term exposure to the workers in the shopping center where the former Bell Dry Cleaner is located and to inhabitants of nearby residences impacted by the vapor intrusion.

In July 2007, Shaw Environmental, Inc. (Shaw) prepared a Vapor Intrusion Study Work Plan (VISWP) to conduct a vapor intrusion study at the former Bell Dry Cleaners building at the Jones Road Groundwater Plume site (Figure 2 in Appendix A). Upon TCEQ's approval of the Work Plan in September 2007, Shaw conducted the Vapor Intrusion Study (VIS) from February 25, 2008 through February 27, 2008. This report discusses the field activities conducted during the VIS, summary and analysis of analytical data, and recommendations based on data analysis. It should be noted that the VIS was conducted at the former Bell Dry Cleaners site, and that the results of the VIS apply only to that particular building and do not apply to other tenants in the strip center.

2.2 Deviations from the Vapor Intrusion Study Work Plan

The work was conducted in general accordance to the VISWP. TCEQ authorized Shaw to work on portions of the VISWP as per TCEQ Work Order 180-0070. Sections 2.4.4 through 2.4.10 of the VISWP were approved. The TCEQ received suggestions from the U.S. Environmental Protection Agency (USEPA) to conduct a more direct study; therefore, other sections of the VISWP were not implemented.

2.3 Vapor Intrusion Overview

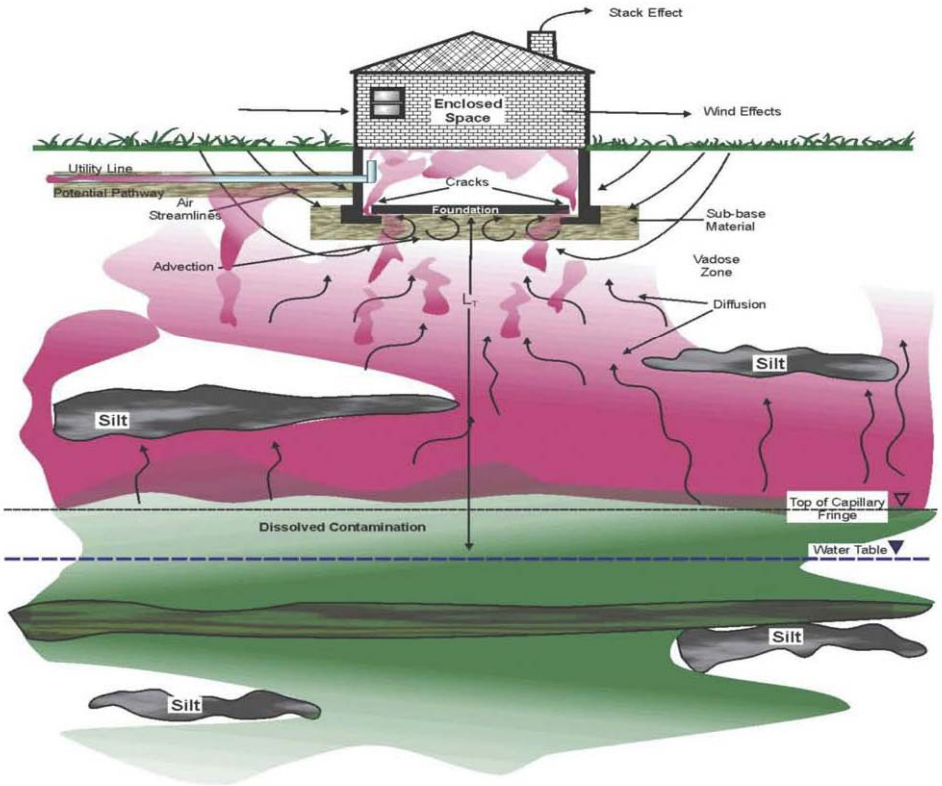
Chemicals can volatilize from impacted soil and/or groundwater beneath a building and diffuse toward regions of lower chemical concentration (e.g., the atmosphere, conduits, basements). Soil gas can flow into a building due to a number of factors, including

barometric pressure changes, wind load, thermal currents, or depressurization from building exhaust fans. The rate of movement of the vapors into the building is a complex value to quantify and depends on soil type, chemical properties, building design and condition, and the pressure differential. Upon entry into a structure, soil gas mixes with the existing air through the natural or mechanical ventilation of the building.

Both diffusion and advection are mechanisms of transport of subsurface soil gas into the indoor air environment. Diffusion is the mechanism by which soil gas moves from high concentration to low concentration due to a concentration gradient. Advection is the transport mechanism by which soil gas moves due to differences in pressure. These pressure differences can be generated by atmospheric pressure changes, temperature changes creating natural convection in the soil, or forced pressure changes due to building ventilation systems. Advective transport is likely to be the most significant in the region very close to a basement or a foundation potentially due to building ventilation systems, and soil gas velocities decrease rapidly with increasing distance from the structure. Once soil gases enter the "building zone of influence," they may be swept into the building through foundation cracks by advection due to the indoor-outdoor building pressure differential. The reach of the "building zone of influence" on soil gas flow is usually less than a few feet, vertically and horizontally.

The movement of contaminants from the source to the receptor is a complicated process in the vapor intrusion pathway. Building depressurization may cause soil gas from soil and/or groundwater contamination to be drawn into buildings through holes and cracks in the foundation. Heating systems, basements, and strong winds promote vapor intrusion into buildings by reducing the internal air pressure and creating a vacuum effect that enhances advective flow from underlying soils and/or groundwater into buildings ("the stack effect").

For the vapor intrusion pathway to be complete, there must be three components—a source of volatile compounds in the subsurface environment (groundwater and/or soil), inhabited buildings or the potential for future inhabited buildings, and a migration route to connect them (as discussed above). Based on available project information, a source of PCE exists in the local contaminated soil and ground water plume. Also a potential pathway(s) through the soil strata in the vadose zone to the overlying occupied building at the Site exists.



Sample CSM Cross Section Showing the Potential Vapor Intrusion Pathways

2.4 Field Activities

2.4.1 Site Survey

Field work was conducted at the site from February 25 through February 27, 2008. The Property Manager for the site was contacted the first day for site access and an overview of the site work was provided. The assessment area was in a vacant corner building of the strip shopping center. The vacant corner was the location of the former Bell Dry Cleaners facility. The location of the investigation area is shown in Figure 1 and Figure 2 (Appendix A). Field activities consisted of a visual survey of the site and collection of ambient and subsurface air samples.

A site survey was conducted in order to collect inventory data on site (Appendix B). The New York State Department of Health Indoor Air Survey from Interstate Technology Regulatory Council's (ITRC) Vapor Intrusion Study guidance document was used in this study. Information on the building construction, heating and cooling systems, building occupants, and stored chemicals that might affect the air quality was noted. Within the

last year this part of the building, which is currently vacant, was used as a furniture store. It was noted that the walls of the site were repainted around October 2007 and that household cleaners and paints were currently stored at the site.

2.4.2 Sample Collection

Two (2) indoor ambient air and two (2) subslab air samples were collected as shown in Figure 1. Sample collection followed EPA Method TO-15 which consists of opening a regulated valve on a summa canister for a specified time period, then closing the valve and shipping the container to a laboratory for analysis.

2.4.2.1 Subslab Sample Locations

Two locations in the floor were identified for subslab air sample collection. These locations were selected near the areas where the bulk of the dry-cleaning operations was conducted and at the center of the building. One location was three (3) feet west of a sump that existed when the site was used for dry cleaning. The other location was approximately 25 feet south of the first location, near the center of the room. These locations are shown in Figure 1 (Appendix A).

2.4.2.2 Ambient Air Samples

Summa canisters for ambient air sampling were placed within five (5) feet of the two subslab sampling locations. The ambient air summa canisters were placed approximately three (3) feet above the floor. The ambient air samples were intended to be open 24 hours with a minimum pressure of 15 inches of mercury (Hg) reached. The valve open and close times are shown in Table 1. The summa canister by the West Sump reached 1 inches of Hg within 23 hours and its valve was closed. The summa canister in the center of the room was at 18 inches of Hg after 23 hours therefore was kept open another 13 hours and was closed at a pressure of 13.5 inches of Hg. The fact that the pressure in this canister did not reduce to 1 psi within 24 hours could be attributed to equipment error or malfunction. However, as per the laboratory, this sample is considered a representative sample, which is also evident from the comparison of the analytical results of the two ambient air sample that are in agreement with each other.

Table 1. Ambient and subslab air summa canister sample collection parameters

Location	Initial Open Time and Date	Initial Pressure Reading (inches of Hg)	Close Time and Date	Final Pressure Reading (inches of Hg)
West Sump Ambient	18:38 2/25/08	29	17:30 2/26/08	1
Center of Room Ambient	18:37 2/25/08	30	7:00 2/27/08	13.5
West Sump Subsurface	18:15 2/25/08	30	18:30 2/25/08	6
Center of Room Subsurface	18:20 2/25/08	28	18:35 2/25/08	3

2.4.2.3 Subslab Vapor Samples

Subslab samples were collected at the two (2) locations noted previously. A one-inch diameter hole was drilled through the concrete floor at each of the selected locations using an electric hammer drill. The concrete floor was approximately 9 inches thick at each location and the drill was pushed an additional 1 inch into the subsurface below. Quarter-inch Teflon-lined PVC tubing was inserted into the 1 inch drill holes then sealed in place with bentonite.

Subsurface vapor samples were collected at the two subslab locations. A one-liter summa canister was attached to the PVC tubing at each location. The summa canisters valves were kept open 15 minutes for each location with the open and close times listed in Table 1.

After the valves were closed on each of the summa canisters, the four canisters were packaged and shipped via FedEx to Accutest laboratory in New Jersey. The access tubes for subsurface sampling were removed and the hole locations were filled with Quikcrete.

2.5 Lab Analysis

After sample collection was completed, the summa canisters were shipped to Accutest Laboratories. The procedure for lab analysis followed EPA Method TO-15 for determining volatile organic compounds in air. The lab portion of this method included collecting samples from the canister then analyzing them using a gas chromatograph. The analytical report is attached in Appendix C.

2.6 Data Analysis

Results of the analytical tests for ambient and subsurface air sampling are shown in Tables D.1 and D.2 respectively (Appendix D). The results of the ambient air analysis were compared to target concentration from a Tier II table from the *Office of Solid Waste and Emergency Response* (*OSWER) Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Appendix E).* For the ambient air samples, 14 analytes exhibited values above analytical detection limits. Two (2) analytes, PCE and TCE, exhibited higher concentrations than the OSWER Tier II target concentrations at both ambient air sample locations. These chemicals were of concern from the chlorinated solvent plume beneath the site thus indicating the possibility of the underground plume being a potential source for vapor intrusion.

Fourteen analytes had values above detection limits in the ambient air, while only eight (8) analytes were noted above the detection limits in the subsurface sample. More chemicals detected in the ambient air than the subsurface potentially indicates that there were more sources of chemicals affecting ambient air than is present in the subsurface. As discussed in Section 2.3.1, chemicals are stored on site. These residual chemicals may act as a source, thereby rendering more analyte detection in the ambient air samples than the subslab samples. Additionally, a beauty salon and auto store operates in the strip center. There may be a possibility that the chemicals used at the beauty salon or the auto store may impact the ambient air at the sampling locations. However, Shaw communicated with the Property Manager who stated that each business is separated from the adjacent business by a permanent wall that extends to the roof, there is no air space/false ceiling in the building at the strip center, and each business has an individual air conditioning system with individual air ducts, which are not connected to adjacent businesses.

The subsurface analytical results in Table D.2 exhibited eight (8) analytes above detection limits. The results of the subslab samples are not directly comparable to Tier II OSWER target concentrations. A risk assessment analysis needs to be conducted to perform that comparison. However, an additional line of evidence was evaluated by estimating attenuation factors as described below. The attenuation factor, α, is a proportionality constant relating indoor air concentrations to soil or groundwater concentrations:

$$C_{indoor\ air} = \alpha_{SG} \times C_{soil\ gas}$$

A larger α indicates less attenuation and a smaller value indicates more attenuation.

For example, the attenuation factor calculation for PCE was calculated as:

$$\alpha_{SG}\ (PCE) = 14 / 59700 = 0.0002$$

Table D.3 (Appendix D) exhibits attenuation factors calculated for all analytes that were detected in the subslab samples. Note that attenuation factors for cis-1,2-DCE, PCE and TCE are in the same order of magnitude. However, the attenuation factors for other analytes such as acetone, benzene, ethanol, and toluene are not in agreement with the attenuation factors for cis-1,2-DCE, PCE, and TCE. This would suggest the existence of other sources for acetone, benzene, ethanol and toluene.

2.7 Uncertainties in Data

The risk assessment study should consider the following uncertainties that may exist in the analytical data due to the following:

- The detection of a greater number of chemicals in the ambient air samples relative to the subsurface samples indicates the potential for impacts on the indoor air from sources other than vapor intrusion. These other chemicals could potentially be from household cleaners that have been stored at the site, and/or recent painting of the walls of the site.

2.8 Conclusions and Recommendations

PCE and TCE concentrations in the west room ambient air sample (9.5 ug/m^3 and 1.7 ug/m^3, respectively) exceed the OSWER Tier II target concentration of 8.1 ug/m^3 and 0.22 ug/m^3, respectively. Similarly, PCE and TCE concentrations in the center room ambient air sample (14 ug/m^3 and 1.8 ug/m^3, respectively) exceed the OSWER Tier II target concentration of 8.1 ug/m^3 and 0.22 ug/m^3, respectively. Also, the attenuation factors for both of these chemicals are in the same order of magnitude. These factors indicate a complete pathway between subsurface soil/groundwater and indoor air at the site.

Shaw conducted a risk assessment for indoor air as a part of the Baseline Risk Assessment (BLRA) for the site. As per Sections 5.3.1, 5.3.2 and 5.4 of the BLRA report (Shaw Environmental, Inc., 2008, *Draft Baseline Risk Assessment, Jones Road Groundwater Plume, Federal Superfund Site (SUP075), Houston, Texas*, July 2008): For indoor air, although a complete pathway for vapor intrusion exists, very little vapor is migrating from the sub-slab soil into indoor air, based on low measured indoor (ambient) concentrations that correspond to low calculated attenuation coefficient (alpha) values of 0.002 to 0.009. As per the BLRA, the measured indoor concentrations of PCE and degradation products in indoor air did not pose an unacceptable health risk to workers.

APPENDIX A

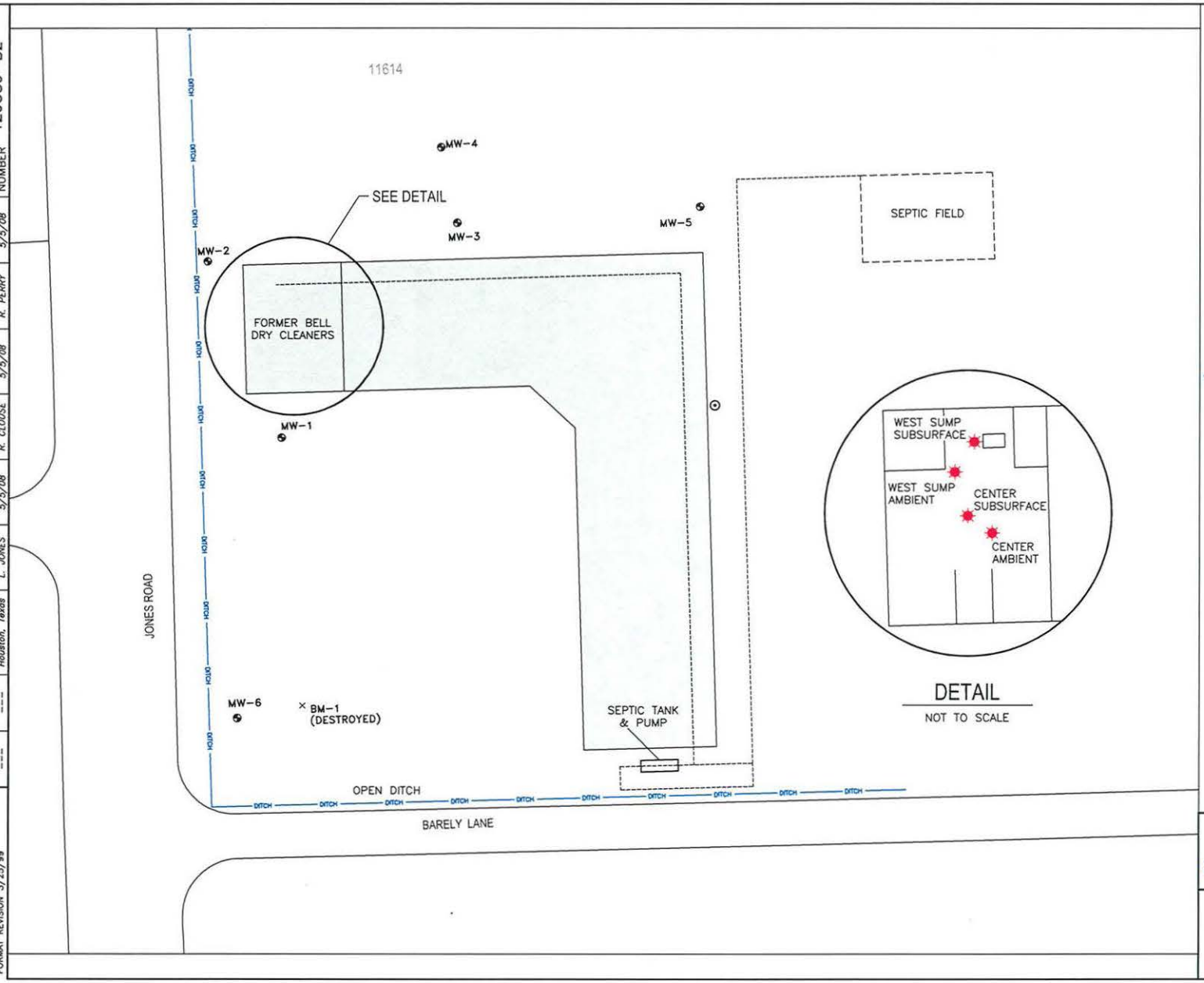


IMAGE	X-REF	OFFICE	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
---	---	Houston, Texas	L. JONES 5/5/08	R. CLOUSE 5/5/08	R. PERRY 5/5/08	129389-B2

PLOT DATE: 5/5/08
FORMAT REVISION 3/25/99

Shaw

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

FIGURE 1
VAPOR INTRUSION STUDY AREA
11600 JONES ROAD
#TXN000605460
HARRIS COUNTY, TEXAS

Shaw® EMCON/OWT, Inc.

FIELD ACTIVITY DAILY LOG

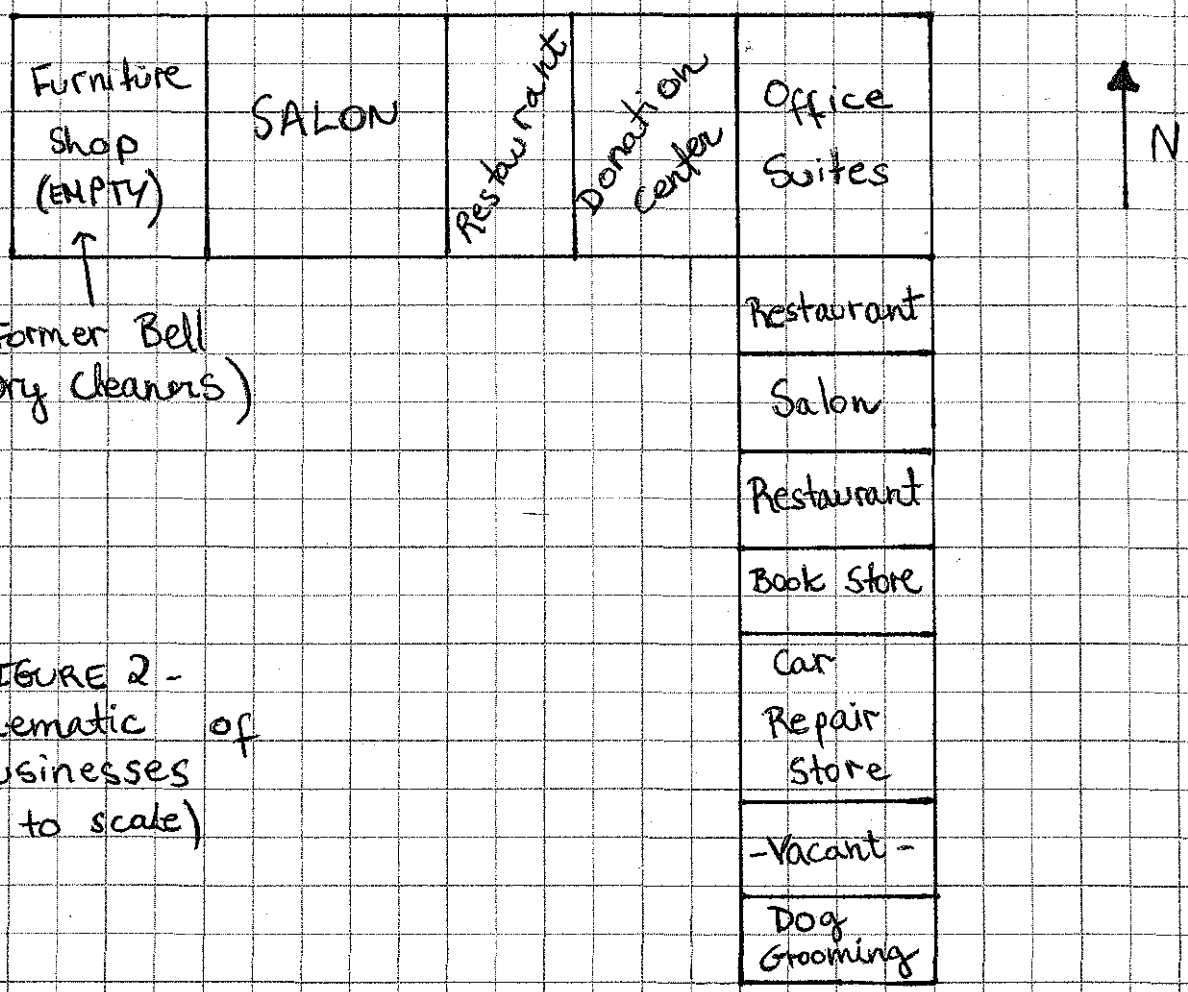
DAILY LOG				
	DATE			
	NO.			
	SHEET	OF		

PROJECT NAME: Jones Road

PROJECT NO.: 129389

FIELD ACTIVITY SUBJECT:

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:



- FIGURE 2 -
Schematic of Businesses
(not to scale)

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

SHAW E&I PERSONNEL ON SITE:

SIGNATURE: RF

DATE: 7/23/08

327C-12-98

APPENDIX B

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Randy Clouse Date/Time Prepared 2/26/07

Preparer's Affiliation Contractor Phone No. 713 996 4438

Purpose of Investigation Assess potential for vapor intrusion above dry cleaning material spill

1. OCCUPANT:

Interviewed: Y / N

Last Name: Rhea First Name: Jessie Property Manager

Address: 11600 Jones Road

County: Harris County

Home Phone: 281-890-0992 Direct Office Phone: 281-890-9678

Number of Occupants/persons at this location ..... Age of Occupants .....

2. OWNER OR LANDLORD: (Check if same as occupant ✓)

Interviewed: Y / N

Last Name: First Name:

Address:

County:

Home Phone: Office Phone:

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	Commercial/Multi-use
Industrial	Church	Other:

If the property is residential, type? (Circle appropriate response) N/A

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Previously dry cleaner, then furniture store, Salon next door

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 1984

Is the building insulated? (Y) / N How air tight? Tight / Average / (Not Tight)

- In ceiling

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

N/A

Airflow near source

Outdoor air infiltration

Infiltration into air ducts

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	concrete	stone	brick concrete block
b. Basement type:	full	crawlspace	slab	other X None
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	unsealed	sealed	sealed with Latex enamel	
f. Foundation walls:	poured	block	stone	other steel frame, metal outside
g. Foundation walls:	unsealed	sealed	sealed with —	
h. The basement is:	wet	damp	dry	moldy NA
i. The basement is:	finished	unfinished	partially finished	
j. Sump present?	Y / N Filled			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: NA (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

- Previous 1'x1' sump, but was been filled
- Floor appears solid otherwise

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

Natural Gas	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: - Boiler existed for dry cleaners; No boiler there though; Boiler was beside drain

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other_____
Air conditioning:	Central Air	Window units	Open Windows	None
	Outside of back door	In back wall		

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

No return ducts

7. OCCUPANCY

Is basement/lowest level (= 1st floor) occupied? Full-time (Occasionally) Seldom Almost Never

Level	General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)
Basement	
1st Floor	Commercial Retail
2nd Floor	
3rd Floor	
4th Floor	

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? Y / (N)

b. Does the garage have a separate heating unit? Y / N / (NA)

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / (NA) Please specify

d. Has the building ever had a fire? Y / (N) When? Not under this property manager (>15 years)

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type?

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? Y / (N) When & Type? Was swept

i. Have cosmetic products been used recently? Y / (N) When & Type? ~~NA~~ – Not in furniture store – but beauty salon next door

j. Has painting/staining been done in the last 6 months? Y / N Where & When? Painted walls in Oct./Nov.

k. Is there new carpet, drapes or other textiles? Y / N Where & When? _____

l. Have air fresheners been used recently? Y / N When & Type? _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? N/A

n. Is there a bathroom exhaust fan? Y / N If yes, where vented? _____

o. Is there a clothes dryer? Y / N If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / N When & Type? No

Are there odors in the building? Y / N
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) No
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply:	Public Water	Drilled Well	Driven Well	Dug Well	Other: _____
Sewage Disposal:	Public Sewer	Septic Tank	Leach Field	Dry Well	Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

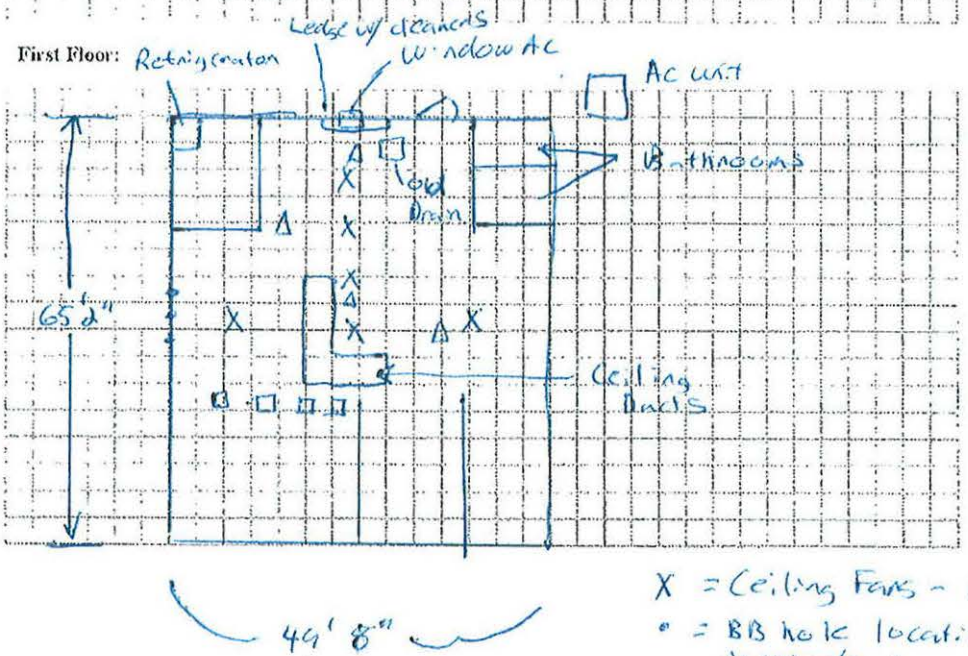
d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

First Floor:



X = Ceiling Fans - Not ON

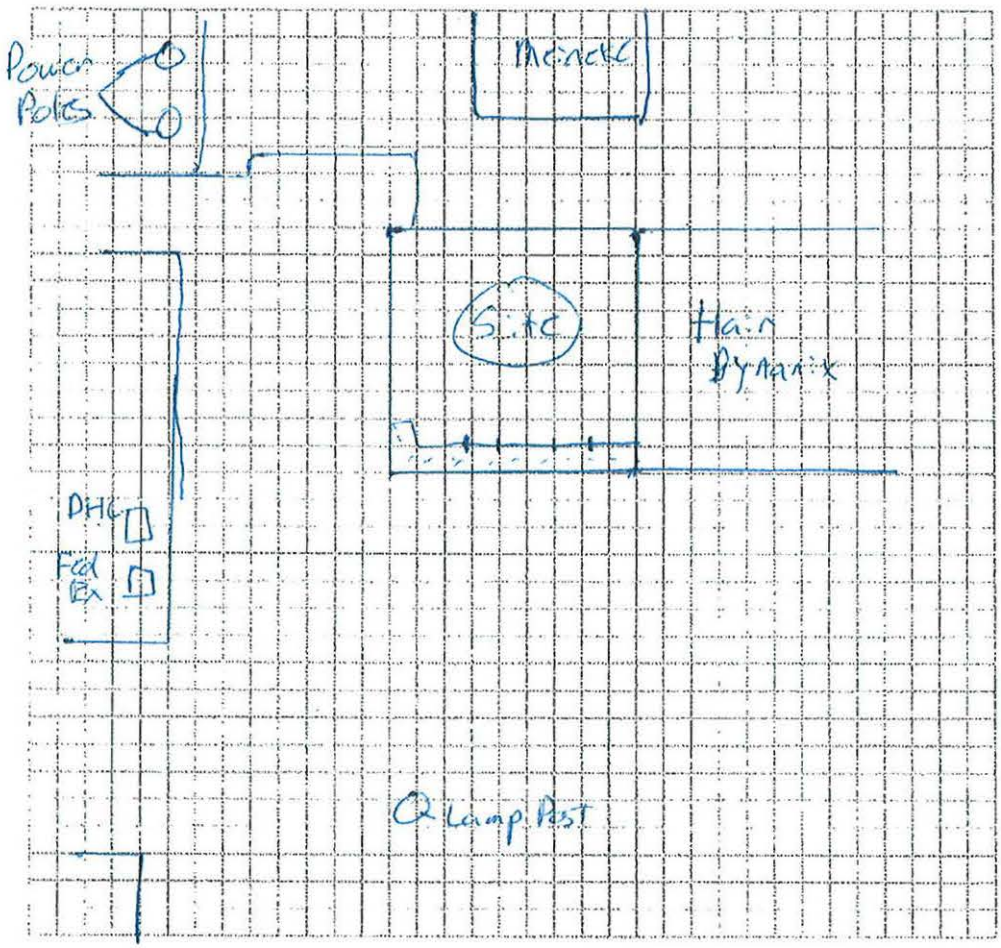
• = BB hole locations in windows

Δ = Summa can sample locations

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: _____

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
Back Wall	Interior/Exterior Paint	3.43 L	Fair	Acrylic Polymer Sodium Potassium		
	WD-40	5.50 z				
	Ant Killer	160 z		Pyrethrins, Permethrin		
	water-based polyurethane	1 qt.				
	Mineral Spirits	3/4 oz				
	bicycle engine oil	1 gal				
	gray paint	120 oz	x5 cans			

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D)
** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

APPENDIX C

New Jersey ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

03/13/08

Technical Report for

Shaw Environmental & Infrastructure,Inc.

Jones Road Superfund, Harris County, TX

129389.0600

Accutest Job Number: J84338

Sampling Dates: 02/25/08 - 02/27/08

Report to:

Shaw Environmental & Infrastructure,Inc.
3010 Briarpark Drive
Suite 400
Houston, TX 77042

ATTN: Larry Duty

Total number of pages in report: 17

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese
President

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Shaw Environmental & Infrastructure,Inc.

Job No: J84338

Jones Road Superfund, Harris County, TX
Project No: 129389.0600

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
J84338-1	02/25/08	18:30 RC	02/28/08	AIR	Air	WEST SUMP-SUBSURFACE
J84338-2	02/25/08	18:35 RC	02/28/08	AIR	Air	CENTER ROOM-SUBSURFACE
J84338-3	02/26/08	17:30 RC	02/28/08	AIR	Air	WEST SUMP-AMBIENT
J84338-4	02/27/08	07:00 RC	02/28/08	AIR	Air	CENTER ROOM-AMBIENT

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	WEST SUMP-SUBSURFACE		
Lab Sample ID:	J84338-1	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A386,A556	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W16886.D	61.5	03/03/08	BR	n/a	n/a	VW729
Run #2	W16856.D	61.5	02/28/08	BR	n/a	n/a	VW727

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	46.0	12	ppbv		109	29	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	12	ppbv		ND	27	ug/m3
71-43-2	78.11	Benzene	7.4	12	ppbv	J	24	38	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	12	ppbv		ND	80	ug/m3
75-25-2	252.8	Bromoform	ND	12	ppbv		ND	120	ug/m3
74-83-9	94.94	Bromomethane	ND	12	ppbv		ND	47	ug/m3
593-60-2	106.9	Bromoethene	ND	12	ppbv		ND	52	ug/m3
100-44-7	126	Benzyl Chloride	ND	12	ppbv		ND	62	ug/m3
75-15-0	76.14	Carbon disulfide	ND	12	ppbv		ND	37	ug/m3
108-90-7	112.6	Chlorobenzene	ND	12	ppbv		ND	55	ug/m3
75-00-3	64.52	Chloroethane	ND	12	ppbv		ND	32	ug/m3
67-66-3	119.4	Chloroform	ND	12	ppbv		ND	59	ug/m3
74-87-3	50.49	Chloromethane	ND	12	ppbv		ND	25	ug/m3
107-05-1	76.53	3-Chloropropene	ND	12	ppbv		ND	38	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	12	ppbv		ND	62	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	12	ppbv		ND	75	ug/m3
110-82-7	84.16	Cyclohexane	ND	12	ppbv		ND	41	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	12	ppbv		ND	49	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	12	ppbv		ND	48	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	12	ppbv		ND	92	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	12	ppbv		ND	49	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	12	ppbv		ND	55	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	12	ppbv		ND	43	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	12	ppbv		ND	59	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	12	ppbv		ND	100	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	55.9	12	ppbv		222	48	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	1160	12	ppbv		4600	48	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	12	ppbv		ND	54	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	12	ppbv		ND	72	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	12	ppbv		ND	72	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	12	ppbv		ND	72	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	12	ppbv		ND	54	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WEST SUMP-SUBSURFACE		
Lab Sample ID:	J84338-1	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A386,A556	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	24.2	31	ppbv	J	45.6	58	ug/m3
100-41-4	106.2	Ethylbenzene	ND	12	ppbv		ND	52	ug/m3
141-78-6	88	Ethyl Acetate	ND	12	ppbv		ND	43	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	12	ppbv		ND	59	ug/m3
76-13-1	187.4	Freon 113	ND	12	ppbv		ND	92	ug/m3
76-14-2	170.9	Freon 114	ND	12	ppbv		ND	84	ug/m3
142-82-5	100.2	Heptane	ND	12	ppbv		ND	49	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	12	ppbv		ND	130	ug/m3
110-54-3	86.17	Hexane	ND	12	ppbv		ND	42	ug/m3
591-78-6	100	2-Hexanone	ND	12	ppbv		ND	49	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	12	ppbv		ND	29	ug/m3
75-09-2	84.94	Methylene chloride	ND	12	ppbv		ND	42	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	12	ppbv		ND	35	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	12	ppbv		ND	49	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	12	ppbv		ND	43	ug/m3
115-07-1	42	Propylene	ND	31	ppbv		ND	53	ug/m3
100-42-5	104.1	Styrene	ND	12	ppbv		ND	51	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	12	ppbv		ND	65	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	12	ppbv		ND	82	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	12	ppbv		ND	65	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	12	ppbv		ND	89	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	12	ppbv		ND	59	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	12	ppbv		ND	59	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	12	ppbv		ND	56	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	12	ppbv		ND	36	ug/m3
127-18-4	165.8	Tetrachloroethylene	6980 [a]	49	ppbv		47300 [a]	330	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	12	ppbv		ND	35	ug/m3
108-88-3	92.14	Toluene	7.9	12	ppbv	J	30	45	ug/m3
79-01-6	131.4	Trichloroethylene	1690	12	ppbv		9080	64	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	12	ppbv		ND	67	ug/m3
75-01-4	62.5	Vinyl chloride	ND	12	ppbv		ND	31	ug/m3
108-05-4	86	Vinyl Acetate	ND	12	ppbv		ND	42	ug/m3
	106.2	m,p-Xylene	ND	12	ppbv		ND	52	ug/m3
95-47-6	106.2	o-Xylene	ND	12	ppbv		ND	52	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	12	ppbv		ND	52	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	88%	90%	78-124%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	WEST SUMP-SUBSURFACE		
Lab Sample ID:	J84338-1	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A386,A556	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CENTER ROOM-SUBSURFACE		
Lab Sample ID:	J84338-2	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A540,A438	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3W5786.D	128	03/04/08	YMH	n/a	n/a	V3W250
Run #2	W16857.D	128	02/28/08	BR	n/a	n/a	VW727

	Initial Volume
Run #1	400 ml
Run #2	100 ml

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	80.0	26	ppbv		190	62	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	26	ppbv		ND	58	ug/m3
71-43-2	78.11	Benzene	ND	26	ppbv		ND	83	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	26	ppbv		ND	170	ug/m3
75-25-2	252.8	Bromoform	ND	26	ppbv		ND	270	ug/m3
74-83-9	94.94	Bromomethane	ND	26	ppbv		ND	100	ug/m3
593-60-2	106.9	Bromoethene	ND	26	ppbv		ND	110	ug/m3
100-44-7	126	Benzyl Chloride	ND	26	ppbv		ND	130	ug/m3
75-15-0	76.14	Carbon disulfide	ND	26	ppbv		ND	81	ug/m3
108-90-7	112.6	Chlorobenzene	ND	26	ppbv		ND	120	ug/m3
75-00-3	64.52	Chloroethane	ND	26	ppbv		ND	69	ug/m3
67-66-3	119.4	Chloroform	ND	26	ppbv		ND	130	ug/m3
74-87-3	50.49	Chloromethane	ND	26	ppbv		ND	54	ug/m3
107-05-1	76.53	3-Chloropropene	ND	26	ppbv		ND	81	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	26	ppbv		ND	130	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	26	ppbv		ND	160	ug/m3
110-82-7	84.16	Cyclohexane	ND	26	ppbv		ND	89	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	26	ppbv		ND	110	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	26	ppbv		ND	100	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	26	ppbv		ND	200	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	26	ppbv		ND	110	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	26	ppbv		ND	120	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	26	ppbv		ND	94	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	ND	26	ppbv		ND	130	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	26	ppbv		ND	220	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	26	ppbv		ND	100	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	ND	26	ppbv		ND	100	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	26	ppbv		ND	120	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	26	ppbv		ND	160	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	26	ppbv		ND	160	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	26	ppbv		ND	160	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	26	ppbv		ND	120	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CENTER ROOM-SUBSURFACE		
Lab Sample ID:	J84338-2	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A540,A438	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	85.2	64	ppbv		161	120	ug/m3
100-41-4	106.2	Ethylbenzene	ND	26	ppbv		ND	110	ug/m3
141-78-6	88	Ethyl Acetate	ND	26	ppbv		ND	94	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	26	ppbv		ND	130	ug/m3
76-13-1	187.4	Freon 113	ND	26	ppbv		ND	200	ug/m3
76-14-2	170.9	Freon 114	ND	26	ppbv		ND	180	ug/m3
142-82-5	100.2	Heptane	ND	26	ppbv		ND	110	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	26	ppbv		ND	280	ug/m3
110-54-3	86.17	Hexane	ND	26	ppbv		ND	92	ug/m3
591-78-6	100	2-Hexanone	ND	26	ppbv		ND	110	ug/m3
67-63-0	60.1	Isopropyl Alcohol	ND	26	ppbv		ND	64	ug/m3
75-09-2	84.94	Methylene chloride	ND	26	ppbv		ND	90	ug/m3
78-93-3	72.11	Methyl ethyl ketone	ND	26	ppbv		ND	77	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	26	ppbv		ND	110	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	26	ppbv		ND	94	ug/m3
115-07-1	42	Propylene	ND	64	ppbv		ND	110	ug/m3
100-42-5	104.1	Styrene	ND	26	ppbv		ND	110	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	26	ppbv		ND	140	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	26	ppbv		ND	180	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	26	ppbv		ND	140	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	26	ppbv		ND	190	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	ND	26	ppbv		ND	130	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	26	ppbv		ND	130	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	26	ppbv		ND	120	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	26	ppbv		ND	79	ug/m3
127-18-4	165.8	Tetrachloroethylene	8800 [a]	100	ppbv		59700 [a]	680	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	26	ppbv		ND	77	ug/m3
108-88-3	92.14	Toluene	ND	26	ppbv		ND	98	ug/m3
79-01-6	131.4	Trichloroethylene	360	26	ppbv		1930	140	ug/m3
75-69-4	137.4	Trichlorofluoromethane	ND	26	ppbv		ND	150	ug/m3
75-01-4	62.5	Vinyl chloride	ND	26	ppbv		ND	66	ug/m3
108-05-4	86	Vinyl Acetate	ND	26	ppbv		ND	91	ug/m3
	106.2	m,p-Xylene	ND	26	ppbv		ND	110	ug/m3
95-47-6	106.2	o-Xylene	ND	26	ppbv		ND	110	ug/m3
1330-20-7	106.2	Xylenes (total)	ND	26	ppbv		ND	110	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	102%	93%	78-124%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CENTER ROOM-SUBSURFACE		
Lab Sample ID:	J84338-2	Date Sampled:	02/25/08
Matrix:	AIR - Air Summa ID: A540,A438	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units

(a) Result is from Run# 2

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WEST SUMP-AMBIENT		
Lab Sample ID:	J84338-3	Date Sampled:	02/26/08
Matrix:	AIR - Air Summa ID: A847	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W16859.D	1	02/29/08	BR	n/a	n/a	VW727
Run #2							

	Initial Volume
Run #1	400 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	14.7	0.20	ppbv		34.9	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.23	0.20	ppbv		0.73	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	0.32	0.20	ppbv		1.0	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.73	0.20	ppbv		1.5	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.60	0.20	ppbv		3.0	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.44	0.20	ppbv		1.7	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	WEST SUMP-AMBIENT		
Lab Sample ID:	J84338-3	Date Sampled:	02/26/08
Matrix:	AIR - Air Summa ID: A847	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	50.1	0.50	ppbv	E	94.4	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.12	0.20	ppbv	J	0.52	0.87	ug/m3
141-78-6	88	Ethyl Acetate	0.44	0.20	ppbv		1.6	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.34	0.20	ppbv		1.4	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.16	0.20	ppbv	J	0.56	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	1.8	0.20	ppbv		4.4	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.62	0.20	ppbv		1.8	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.14	0.20	ppbv	J	0.69	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	ND	0.20	ppbv		ND	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	1.4	0.20	ppbv		9.5	1.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	ND	0.20	ppbv		ND	0.59	ug/m3
108-88-3	92.14	Toluene	2.1	0.20	ppbv		7.9	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.31	0.20	ppbv		1.7	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.26	0.20	ppbv		1.5	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.41	0.20	ppbv		1.8	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.54	0.20	ppbv		2.3	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	94%		78-124%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CENTER ROOM-AMBIENT		
Lab Sample ID:	J84338-4	Date Sampled:	02/27/08
Matrix:	AIR - Air Summa ID: A852	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W16858.D	1.8	02/28/08	BR	n/a	n/a	VW727
Run #2							

	Initial Volume
Run #1	720 ml
Run #2	

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
67-64-1	58.08	Acetone	11.8	0.20	ppbv		28.0	0.48	ug/m3
106-99-0	54.09	1,3-Butadiene	ND	0.20	ppbv		ND	0.44	ug/m3
71-43-2	78.11	Benzene	0.26	0.20	ppbv		0.83	0.64	ug/m3
75-27-4	163.8	Bromodichloromethane	ND	0.20	ppbv		ND	1.3	ug/m3
75-25-2	252.8	Bromoform	ND	0.20	ppbv		ND	2.1	ug/m3
74-83-9	94.94	Bromomethane	ND	0.20	ppbv		ND	0.78	ug/m3
593-60-2	106.9	Bromoethene	ND	0.20	ppbv		ND	0.87	ug/m3
100-44-7	126	Benzyl Chloride	ND	0.20	ppbv		ND	1.0	ug/m3
75-15-0	76.14	Carbon disulfide	ND	0.20	ppbv		ND	0.62	ug/m3
108-90-7	112.6	Chlorobenzene	ND	0.20	ppbv		ND	0.92	ug/m3
75-00-3	64.52	Chloroethane	ND	0.20	ppbv		ND	0.53	ug/m3
67-66-3	119.4	Chloroform	ND	0.20	ppbv		ND	0.98	ug/m3
74-87-3	50.49	Chloromethane	0.84	0.20	ppbv		1.7	0.41	ug/m3
107-05-1	76.53	3-Chloropropene	ND	0.20	ppbv		ND	0.63	ug/m3
95-49-8	126.6	2-Chlorotoluene	ND	0.20	ppbv		ND	1.0	ug/m3
56-23-5	153.8	Carbon tetrachloride	ND	0.20	ppbv		ND	1.3	ug/m3
110-82-7	84.16	Cyclohexane	ND	0.20	ppbv		ND	0.69	ug/m3
75-34-3	98.96	1,1-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
75-35-4	96.94	1,1-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
106-93-4	187.9	1,2-Dibromoethane	ND	0.20	ppbv		ND	1.5	ug/m3
107-06-2	98.96	1,2-Dichloroethane	ND	0.20	ppbv		ND	0.81	ug/m3
78-87-5	113	1,2-Dichloropropane	ND	0.20	ppbv		ND	0.92	ug/m3
123-91-1	88.12	1,4-Dioxane	ND	0.20	ppbv		ND	0.72	ug/m3
75-71-8	120.9	Dichlorodifluoromethane	0.75	0.20	ppbv		3.7	0.99	ug/m3
124-48-1	208.3	Dibromochloromethane	ND	0.20	ppbv		ND	1.7	ug/m3
156-60-5	96.94	trans-1,2-Dichloroethylene	ND	0.20	ppbv		ND	0.79	ug/m3
156-59-2	96.94	cis-1,2-Dichloroethylene	0.46	0.20	ppbv		1.8	0.79	ug/m3
10061-01-5	111	cis-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3
541-73-1	147	m-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
95-50-1	147	o-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
106-46-7	147	p-Dichlorobenzene	ND	0.20	ppbv		ND	1.2	ug/m3
10061-02-6	111	trans-1,3-Dichloropropene	ND	0.20	ppbv		ND	0.91	ug/m3

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	CENTER ROOM-AMBIENT		
Lab Sample ID:	J84338-4	Date Sampled:	02/27/08
Matrix:	AIR - Air Summa ID: A852	Date Received:	02/28/08
Method:	TO-15	Percent Solids:	n/a
Project:	Jones Road Superfund, Harris County, TX		

CAS No.	MW	Compound	Result	RL	Units	Q	Result	RL	Units
64-17-5	46.07	Ethanol	61.1	0.50	ppbv	E	115	0.94	ug/m3
100-41-4	106.2	Ethylbenzene	0.11	0.20	ppbv	J	0.48	0.87	ug/m3
141-78-6	88	Ethyl Acetate	ND	0.20	ppbv		ND	0.72	ug/m3
622-96-8	120.2	4-Ethyltoluene	ND	0.20	ppbv		ND	0.98	ug/m3
76-13-1	187.4	Freon 113	ND	0.20	ppbv		ND	1.5	ug/m3
76-14-2	170.9	Freon 114	ND	0.20	ppbv		ND	1.4	ug/m3
142-82-5	100.2	Heptane	0.52	0.20	ppbv		2.1	0.82	ug/m3
87-68-3	260.8	Hexachlorobutadiene	ND	0.20	ppbv		ND	2.1	ug/m3
110-54-3	86.17	Hexane	0.24	0.20	ppbv		0.85	0.70	ug/m3
591-78-6	100	2-Hexanone	ND	0.20	ppbv		ND	0.82	ug/m3
67-63-0	60.1	Isopropyl Alcohol	4.6	0.20	ppbv		11	0.49	ug/m3
75-09-2	84.94	Methylene chloride	ND	0.20	ppbv		ND	0.69	ug/m3
78-93-3	72.11	Methyl ethyl ketone	0.69	0.20	ppbv		2.0	0.59	ug/m3
108-10-1	100.2	Methyl Isobutyl Ketone	ND	0.20	ppbv		ND	0.82	ug/m3
1634-04-4	88.15	Methyl Tert Butyl Ether	ND	0.20	ppbv		ND	0.72	ug/m3
115-07-1	42	Propylene	ND	0.50	ppbv		ND	0.86	ug/m3
100-42-5	104.1	Styrene	ND	0.20	ppbv		ND	0.85	ug/m3
71-55-6	133.4	1,1,1-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
79-34-5	167.9	1,1,2,2-Tetrachloroethane	ND	0.20	ppbv		ND	1.4	ug/m3
79-00-5	133.4	1,1,2-Trichloroethane	ND	0.20	ppbv		ND	1.1	ug/m3
120-82-1	181.5	1,2,4-Trichlorobenzene	ND	0.20	ppbv		ND	1.5	ug/m3
95-63-6	120.2	1,2,4-Trimethylbenzene	0.10	0.20	ppbv	J	0.49	0.98	ug/m3
108-67-8	120.2	1,3,5-Trimethylbenzene	ND	0.20	ppbv		ND	0.98	ug/m3
540-84-1	114.2	2,2,4-Trimethylpentane	0.13	0.20	ppbv	J	0.61	0.93	ug/m3
75-65-0	74.12	Tertiary Butyl Alcohol	ND	0.20	ppbv		ND	0.61	ug/m3
127-18-4	165.8	Tetrachloroethylene	2.1	0.20	ppbv		14	1.4	ug/m3
109-99-9	72.11	Tetrahydrofuran	0.32	0.20	ppbv		0.94	0.59	ug/m3
108-88-3	92.14	Toluene	1.7	0.20	ppbv		6.4	0.75	ug/m3
79-01-6	131.4	Trichloroethylene	0.33	0.20	ppbv		1.8	1.1	ug/m3
75-69-4	137.4	Trichlorofluoromethane	0.49	0.20	ppbv		2.8	1.1	ug/m3
75-01-4	62.5	Vinyl chloride	ND	0.20	ppbv		ND	0.51	ug/m3
108-05-4	86	Vinyl Acetate	ND	0.20	ppbv		ND	0.70	ug/m3
	106.2	m,p-Xylene	0.35	0.20	ppbv		1.5	0.87	ug/m3
95-47-6	106.2	o-Xylene	0.13	0.20	ppbv	J	0.56	0.87	ug/m3
1330-20-7	106.2	Xylenes (total)	0.48	0.20	ppbv		2.1	0.87	ug/m3

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
460-00-4	4-Bromofluorobenzene	100%		78-124%

ND = Not detected
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Summa Canister and Flow Controller Log

ACCUTEST Laboratories

CHAIN OF CUSTODY

Air Sampling Field Data Sheet

FED-EX Tracking #	Bottle Order Control #	PAGE 1 OF 1
Lab Quote #	Lab Job # J84338	

Client / Reporting Information

Company Name: Shaw Environmental
Address: 3010 Brian park
City: Houston State: TX Zip: 77042
Project Contact: Amandeep Kang E-mail: Amandeep.kang@shawgrp.com
Phone #: 214-277-7861 Fax #:

Project Name: Jones Road Superfund
Street:
City: Harris Co. State: TX
Project #: 129389.0600
Client Purchase Order #:

Weather Parameters

Temperature (Fahrenheit)
Start: 72.8 Maximum:
Stop: 61.1 (7PM) Minimum:
Atmospheric Pressure (Inches of Hg)
Start: 29.62 Maximum:
Stop: 30.09 Minimum:
Other weather comment: Front passed thru overnight

Sampler(s) Name(s): Randy Close

Requested Analysis

Lab Sample #	Field ID / Point of Collection	Air Type: Indoor(I) Soil Vap(SV) Ambient(A)	Sampling Equipment Info: Canister Serial #	Canister Size 6L or 1L	Flow Controller Serial #	Start Sampling Information: Date	Time (24hr clock)	Canister Pressure (" Hg)	Interior Temp (F)	Sampler Init.	Stop Sampling Information: Date	Time (24hr clock)	Canister Pressure (" Hg)	Interior Temp (F)	Sampler Init.	Standard TO-15 Reporting List
-1 A386	West Sump - Subsurface	SV	1097	1L	FC338	2/25	18:15	30		RWC	2/25	18:30	6		RWC	✓
-2 A390	Center Room - Subsurface	SV	1200	1L	FC623	2/25	18:20	28		RWC	2/25	18:35	3		RWC	✓
-3 A44	West Sump - Ambient	I	7758	6L	8FC239	2/25	18:30	29		RWC	2/26	10:30	1		RWC	✓
-4 A392	Center Room - ~~Center~~ Ambient	I	7763	6L	FC052	2/25	18:30	3.(5)		RWC	2/27	7:00	13.5		RWC	✓

Turnaround Time (Business days)

Standard - 15 Days ✓
10 Day
5 Day
3 Day
2 Day
1 Day
Other

Approved By:
Date:

Data Deliverable Information

All NJDEP TO-15 is mandatory Full T1
Comm A
Comm B
Reduced T2
Full T1
Other:

Comments / Remarks

SUMMA

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Laboratory:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Randy Close	2/27/08 7:35	1 FEDX	2 FEDX	930 2-28-08	2
Relinquished by: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #		

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J84338: Chain of Custody
Page 1 of 1

Summa Canister and Flow Controller Log

Job Number: J84338
Account: ITTXHO Shaw Environmental & Infrastructure,Inc.
Project: Jones Road Superfund, Harris County, TX
Received: 02/28/08

3.2

3

SUMMA CANISTERS

Shipping							Receiving						
Summa ID	L	Vac " Hg	Date Out	By	SCC Batch	SCC FileID	Sample Number	Date In	By	Vac " Hg	Pres psig	Final psig	Dil Fact
A386	1	29.4	02/21/08	HSC	CP2656	2W16138.D	J84338-1	02/28/08	HSC	2			1
A540	1	29.4	02/21/08	HSC	CP2656	2W16138.D	J84338-2	02/28/08	HSC	2.5			1
A847	6	29.4	02/21/08	HSC	CP2719	3W5659.D	J84338-3	02/28/08	HSC	0			1
A852	6	29.4	02/21/08	HSC	CP2719	3W5659.D	J84338-4	02/28/08	HSC	12		1.1	1.79

FLOW CONTROLLERS

Shipping					Receiving		
Flow Crtl ID	Date Out	By	cc/ min	Time hrs.	Date In	By	cc/ min
FC163	02/21/08	HSC	56	.25	02/28/08	HSC	58
FC229	02/21/08	HSC	3.4	24	02/28/08	HSC	3.5
FC252	02/21/08	HSC	3.4	24	02/28/08	HSC	.8
FC338	02/21/08	HSC	56	.25	02/28/08	HSC	65

Accutest Bottle Order(s):
TE-2/20/2008-9

Prep Date	Room Temp(F)	Bar Pres "Hg
02/21/08	61.7	30.3

APPENDIX D

Table D.1. Ambient Air Collection Analytical Results

CAS No.	Compound	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index ($R=10^{-5}$, HI=1) C_{target}	Result - West Sump - Ambient	Result - Center Room - Ambient
		(ug/m^3)	(ug/m^3)	(ug/m^3)
67-64-1	Acetone	350	34.9	28
106-99-0	1,3 Butadiene	0.0087	ND	ND
71-43-2	Benzene	3.1	0.73	0.83
75-27-4	Bromodichloromethane	1.4	ND	ND
75-25-2	Bromoform	22	ND	ND
74-83-9	Bromomethane	5	ND	ND
593-60-2	Bromoethene		ND	ND
100-44-7	Benzyl Chloride	0.5	ND	ND
75-15-0	Carbon disulfide	700	1	ND
108-90-7	Chlorobenzene	60	ND	ND
75-00-3	Chloroethane	10,000	ND	ND
67-66-3	Chloroform	11	ND	ND
74-87-3	Chloromethane	24	1.5	1.7
107-05-1	3-Chloropropene		ND	ND
95-49-8	2-Chlorotoluene		ND	ND
56-23-5	Carbon tetrachloride	1.6	ND	ND
110-82-7	Cyclohexane		ND	ND
75-34-3	1,1-Dichloroethane	500	ND	ND
75-35-4	1,1-Dichloroethylene	200	ND	ND
106-93-4	1,2-Dibromoethane	0.11	ND	ND
107-06-02	1,2-Dichloroethane	0.94	ND	ND
78-87-5	1,2-Dichloropropane	4	ND	ND
123-91-1	1,4-Dioxane		ND	ND
75-71-8	Dichlorodifluoromethane	200	3	3.7
124-48-1	Dibromochloromethane	1	ND	ND
156-60-5	trans-1,2-Dichloroethylene	70	ND	ND
156-59-2	cis-1,2-Dichloroethylene	35	1.7	1.8
10061-01-5	cis-1,3-Dichloropropene		ND	ND
541-73-1	m-Dichlorobenzene	11	ND	ND
95-50-1	o-Dichlorobenzene	200	ND	ND
106-46-7	p-Dichlorobenzene	800	ND	ND
10061-02-6	trans-1,3-Dichloropropene		ND	ND
64-17-5	Ethanol		94.4	115
100-41-4	Ethylbenzene	22	0.52	0.48
141-78-6	Ethyl Acetate	3,200	1.6	ND
622-96-8	4-Ethyltoluene		ND	ND
76-13-1	Freon 113	30,000	ND	ND
76-14-2	Freon 114		ND	ND
142-82-5	Heptane		1.4	2.1
87-68-3	Hexachlorobutadiene	1.1	ND	ND
110-54-3	Hexane	200	0.56	0.85
591-78-6	2-Hexanone		ND	ND
67-63-0	Isopropyl Alcohol		4.4	11
75-09-2	Methylene chloride	52	ND	ND
78-93-3	Methyl ethyl ketone	1,000	1.8	2
108-10-1	Methyl Isobutyl Ketone	80	ND	ND
1634-04-4	Methyl Tert Butyl Ether	3,000	ND	ND
115-07-1	Propylene		ND	ND
100-42-5	Styrene	1,000	ND	ND

Table D.1. Ambient Air Collection Analytical Results

CAS No.	Compound	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index ($R=10^{-5}$, HI=1) C_{target}	Result - West Sump - Ambient	Result - Center Room - Ambient
		(ug/m^3)	(ug/m^3)	(ug/m^3)
71-55-6	1,1,1-Trichloroethane	2,200	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.42	ND	ND
79-00-5	1,1,2-Trichloroethane	1.5	ND	ND
120-82-1	1,2,4-Trichlorobenzene	200	ND	ND
95-63-6	1,2,4-Trimethylbenzene	6	0.69	0.49
108-67-8	1,3,5-Trimethylbenzene	6	ND	ND
540-84-1	2,2,4-Trimethylpentane		ND	0.61
75-65-0	Tertiary Butyl Alcohol		ND	ND
127-18-4	Tetrachloroethylene	8.1	**9.5**	**14**
109-99-9	Tetrahydrofuran		ND	0.94
108-88-3	Toluene	400	7.9	6.4
79-01-6	Trichloroethylene	0.22	**1.7**	**1.8**
75-69-4	Trichlorofluoromethane	700	1.5	2.8
75-01-4	Vinyl chloride	2.8	ND	ND
108-05-4	Vinyl Acetate	200	ND	ND
	m,p-Xylene		1.8	1.5
95-47-6	o-Xylene	7,000	0.56	0.56
1330-20-7	Xylenes (total)		2.3	2.1

Notes:
1) Empty cell implies that no target concentration is listed in OSWER tables for that particular analyte
2) ND - Non Detect
3) ug/m^3 - micrograms per cubic meter
4) Highlighted concentrations represent higher than OSWER target concentrations

Table D.2. Subsurface Air Collection Analytical Results			
CAS No.	**Compound**	**Result - West Sump - Subsurface**	**Result Center Room - Subsurface**
		(ug/m3)	(ug/m3)
67-64-1	Acetone	109	190
106-99-0	1,3 Butadiene	ND	ND
71-43-2	Benzene	24	ND
75-27-4	Bromodichloromethane	ND	ND
75-25-2	Bromoform	ND	ND
74-83-9	Bromomethane	ND	ND
593-60-2	Bromoethene	ND	ND
100-44-7	Benzyl Chloride	ND	ND
75-15-0	Carbon disulfide	ND	ND
108-90-7	Chlorobenzene	ND	ND
75-00-3	Chloroethane	ND	ND
67-66-3	Chloroform	ND	ND
74-87-3	Chloromethane	ND	ND
107-05-1	3-Chloropropene	ND	ND
95-49-8	2-Chlorotoluene	ND	ND
56-23-5	Carbon tetrachloride	ND	ND
110-82-7	Cyclohexane	ND	ND
75-34-3	1,1-Dichloroethane	ND	ND
75-35-4	1,1-Dichloroethylene	ND	ND
106-93-4	1,2-Dibromoethane	ND	ND
107-06-02	1,2-Dichloroethane	ND	ND
78-87-5	1,2-Dichloropropane	ND	ND
123-91-1	1,4-Dioxane	ND	ND
75-71-8	Dichlorodifluoromethane	ND	ND
124-48-1	Dibromochloromethane	ND	ND
156-60-5	trans-1,2-Dichloroethylene	222	ND
156-59-2	cis-1,2-Dichloroethylene	4,600	ND
10061-01-5	cis-1,3-Dichloropropene	ND	ND
541-73-1	m-Dichlorobenzene	ND	ND
95-50-1	o-Dichlorobenzene	ND	ND
106-46-7	p-Dichlorobenzene	ND	ND
10061-02-6	trans-1,3-Dichloropropene	ND	ND
64-17-5	Ethanol	46	161
100-41-4	Ethylbenzene	ND	ND
141-78-6	Ethyl Acetate	ND	ND
622-96-8	4-Ethyltoluene	ND	ND
76-13-1	Freon 113	ND	ND
76-14-2	Freon 114	ND	ND
142-82-5	Heptane	ND	ND
87-68-3	Hexachlorobutadiene	ND	ND
110-54-3	Hexane	ND	ND
591-78-6	2-Hexanone	ND	ND
67-63-0	Isopropyl Alcohol	ND	ND
75-09-2	Methylene chloride	ND	ND
78-93-3	Methyl ethyl ketone	ND	ND
108-10-1	Methyl Isobutyl Ketone	ND	ND
1634-04-4	Methyl Tert Butyl Ether	ND	ND
115-07-1	Propylene	ND	ND

Table D.2. Subsurface Air Collection Analytical Results			
CAS No.	**Compound**	**Result - West Sump - Subsurface**	**Result Center Room - Subsurface**
		(ug/m3)	(ug/m3)
100-42-5	Styrene	ND	ND
71-55-6	1,1,1-Trichloroethane	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	ND	ND
79-00-5	1,1,2-Trichloroethane	ND	ND
120-82-1	1,2,4-Trichlorobenzene	ND	ND
95-63-6	1,2,4-Trimethylbenzene	ND	ND
108-67-8	1,3,5-Trimethylbenzene	ND	ND
540-84-1	2,2,4-Trimethylpentane	ND	ND
75-65-0	Tertiary Butyl Alcohol	ND	ND
127-18-4	Tetrachloroethylene	47,300	59,700
109-99-9	Tetrahydrofuran	ND	ND
108-88-3	Toluene	30	ND
79-01-6	Trichloroethylene	9,080	1,930
75-69-4	Trichlorofluoromethane	ND	ND
75-01-4	Vinyl chloride	ND	ND
108-05-4	Vinyl Acetate	ND	ND
	m,p-Xylene	ND	ND
95-47-6	o-Xylene	ND	ND
1330-20-7	Xylenes (total)	ND	ND

Notes:
1) ND - Non Detect
2) ug/m^3 - micrograms per cubic meter

Table D.3. Attenuation Factors			
CAS No.	**Compound**	**Attenuation Factor - West Sump**	**Attenuation Factor - Center Room**
67-64-1	Acetone	0.3202	0.1837
71-43-2	Benzene	0.0346	
156-59-2	cis-1,2-Dichloroethylene	0.0004	
64-17-5	Ethanol	2.5219	0.7143
127-18-4	Tetrachloroethylene	0.0003	0.0002
108-88-3	Toluene	0.2633	
79-01-6	Trichloroethylene	0.0002	0.0009

Notes:
1) Empty cell indicates that the analyte was not detected at that sample location

APPENDIX E

United States Environmental Protection Agency

OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)

November 2002

EPA530-D-02-004

Table 2b: Question 4 Generic Screening Levels and Summary Sheet [1]

Risk = 1 x 10^{-5}

CAS No.	Chemical	Compounds with Provisional Toxicity Data Extrapolated From Oral Sources	Basis of Target Concentration C=cancer risk NC=noncancer risk	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-5}, HI=1) C_{target} (ug/m3)	(ppbv)	Measured or Reasonably Estimated Indoor Air Concentration [if available] (specify units)	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Shallow Soil Gas Concentration [if available] (specify units)	Target Deep Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.01 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Deep Soil Gas Concentration [if available] (specify units)	Target Groundwater Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor = 0.001 and Partitioning Across the Water Table Obeys Henry's Law C_{gw} (ug/L)	Measured or Reasonably Estimated Groundwater Concentration [if available] (specify units)
83329	Acenaphthene	X	NC	2.1E+02	3.3E+01		2.1E+03	3.3E+02		2.1E+04	3.3E+03		**	
75070	Acetaldehyde		NC	9.0E+00	5.0E+00		9.0E+01	5.0E+01		9.0E+02	5.0E+02		2.8E+03	
67641	Acetone	X	NC	3.5E+02	1.5E+02		3.5E+03	1.5E+03		3.5E+04	1.5E+04		2.2E+05	
75058	Acetonitrile		NC	6.0E+01	3.6E+01		6.0E+02	3.6E+02		6.0E+03	3.6E+03		4.2E+04	
98862	Acetophenone	X	NC	3.5E+02	7.1E+01		3.5E+03	7.1E+02		3.5E+04	7.1E+03		8.0E+05	
107028	Acrolein		NC	2.0E-02	8.7E-03		2.0E-01	8.7E-02		2.0E+00	8.7E-01		4.0E+00	
107131	Acrylonitrile		C	3.6E-01	1.7E-01		3.6E+00	1.7E+00		3.6E+01	1.7E+01		8.5E+01	
309002	Aldrin		C	5.0E-03	3.3E-04		5.0E-02	3.3E-03		5.0E-01	3.3E-02		7.1E-01	
319846	alpha-HCH (alpha-BHC)		C	1.4E-02	1.1E-03		1.4E-01	1.1E-02		1.4E+00	1.1E-01		3.1E+01	
100527	Benzaldehyde	X	NC	3.5E+02	8.1E+01		3.5E+03	8.1E+02		3.5E+04	8.1E+03		3.6E+05	
71432	Benzene		C	3.1E+00	9.8E-01		3.1E+01	9.8E+00		3.1E+02	9.8E+01		1.4E+01	
205992	Benzo(b)fluoranthene	X	C	1.2E-01	1.1E-02		1.2E+00	1.1E-01		**	**		**	
100447	Benzylchloride	X	C	5.0E-01	9.7E-02		5.0E+00	9.7E-01		5.0E+01	9.7E+00		3.0E+01	
91587	beta-Chloronaphthalene	X	NC	2.8E+02	4.2E+01		2.8E+03	4.2E+02		2.8E+04	4.2E+03		**	
92524	Biphenyl	X	NC	1.8E+02	2.8E+01		1.8E+03	2.8E+02		1.8E+04	2.8E+03		**	
111444	Bis(2-chloroethyl)ether		C	7.4E-02	1.3E-02		7.4E-01	1.3E-01		7.4E+00	1.3E+00		1.0E+02	
108601	Bis(2-chloroisopropyl)ether		C	2.4E+00	3.5E-01		2.4E+01	3.5E+00		2.4E+02	3.5E+01		5.1E+02	
542881	Bis(chloromethyl)ether		C	3.9E-04	8.4E-05		3.9E-03	8.4E-04		3.9E-02	8.4E-03		4.5E-02	
75274	Bromodichloromethane	X	C	1.4E+00	2.1E-01		1.4E+01	2.1E+00		1.4E+02	2.1E+01		2.1E+01	
75252	Bromoform		C	2.2E+01	2.1E+00		2.2E+02	2.1E+01		2.2E+03	2.1E+02		8.3E-02	
106990	1,3-Butadiene		C	8.7E-02	3.9E-02		8.7E-01	3.9E-01		8.7E+00	3.9E+00		2.9E-02	
75150	Carbon disulfide		NC	7.0E+02	2.2E+02		7.0E+03	2.2E+03		7.0E+04	2.2E+04		5.6E+02	
56235	Carbon tetrachloride		C	1.6E+00	2.6E-01		1.6E+01	2.6E+00		1.6E+02	2.6E+01		5.0E+00 †	
57749	Chlordane		C	2.4E-01	1.5E-02		2.4E+00	1.5E-01		2.4E+01	1.5E+00		**	
126998	2-Chloro-1,3-butadiene (chloroprene)		NC	7.0E+00	1.9E+00		7.0E+01	1.9E+01		7.0E+02	1.9E+02		1.4E+01	
108907	Chlorobenzene		NC	6.0E+01	1.3E+01		6.0E+02	1.3E+02		6.0E+03	1.3E+03		3.9E+02	
109693	1-Chlorobutane	X	NC	1.4E+03	3.7E+02		1.4E+04	3.7E+03		1.4E+05	3.7E+04		2.0E+03	
124481	Chlorodibromomethane	X	C	1.0E+00	1.2E-01		1.0E+01	1.2E+00		1.0E+02	1.2E+01		3.2E+01	
75456	Chlorodifluoromethane		NC	5.0E+04	1.4E+04		5.0E+05	1.4E+05		**	**		**	
75003	Chloroethane (ethyl chloride)		NC	1.0E+04	3.8E+03		1.0E+05	3.8E+04		1.0E+06	3.8E+05		2.8E+04	
67663	Chloroform		C	1.1E+00	2.2E-01		1.1E+01	2.2E+00		1.1E+02	2.2E+01		8.0E+01 †	
95578	2-Chlorophenol	X	NC	1.8E+01	3.3E+00		1.8E+02	3.3E+01		1.8E+03	3.3E+02		1.1E+03	
75296	2-Chloropropane		NC	1.0E+02	3.2E+01		1.0E+03	3.2E+02		1.0E+04	3.2E+03		1.7E+02	
218019	Chrysene	X	C	1.2E+01	1.2E+00		**	**		**	**		**	
156592	cis-1,2-Dichloroethylene	X	NC	3.5E+01	8.8E+00		3.5E+02	8.8E+01		3.5E+03	8.8E+02		2.1E+02	
123739	Crotonaldehyde (2-butenal)	X	C	4.5E-02	1.6E-02		4.5E-01	1.6E-01		4.5E+00	1.6E+00		5.6E+01	
98828	Cumene		NC	4.0E+02	8.1E+01		4.0E+03	8.1E+02		4.0E+04	8.1E+03		8.4E+00	

Table 2b: Question 4 Generic Screening Levels and Summary Sheet [1]

Risk = 1 x 10^{-5}

CAS No.	Chemical	Compounds with Provisional Toxicity Data Extrapolated From Oral Sources	Basis of Target Concentration C=cancer risk NC=noncancer risk	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-5}, HI=1) C_{target} (ug/m3)	(ppbv)	Measured or Reasonably Estimated Indoor Air Concentration [if available] (specify units)	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Shallow Soil Gas Concentration [if available] (specify units)	Target Deep Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.01 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Deep Soil Gas Concentration [if available] (specify units)	Target Groundwater Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor = 0.001 and Partitioning Across the Water Table Obeys Henry's Law C_{gw} (ug/L)	Measured or Reasonably Estimated Groundwater Concentration [if available] (specify units)
72559	DDE	X	C	2.5E-01	1.9E-02		2.5E+00	1.9E-01		2.5E+01	1.9E+00		**	
132649	Dibenzofuran	X	NC	1.4E+01	2.0E+00		1.4E+02	2.0E+01		1.4E+03	2.0E+02		**	
96128	1,2-Dibromo-3-chloropropane		NC	2.0E-01	2.1E-02		2.0E+00	2.1E-01		2.0E+01	2.1E+00		3.3E+01	
106934	1,2-Dibromoethane (ethylene dibromide)		C	1.1E-01	1.4E-02		1.1E+00	1.4E-01		1.1E+01	1.4E+00		3.6E+00	
541731	1,3-Dichlorobenzene	X	NC	1.1E+02	1.7E+01		1.1E+03	1.7E+02		1.1E+04	1.7E+03		8.3E+02	
95501	1,2-Dichlorobenzene		NC	2.0E+02	3.3E+01		2.0E+03	3.3E+02		2.0E+04	3.3E+03		2.6E+03	
106467	1,4-Dichlorobenzene		NC	8.0E+02	1.3E+02		8.0E+03	1.3E+03		8.0E+04	1.3E+04		8.2E+03	
75718	Dichlorodifluoromethane		NC	2.0E+02	4.0E+01		2.0E+03	4.0E+02		2.0E+04	4.0E+03		1.4E+01	
75343	1,1-Dichloroethane		NC	5.0E+02	1.2E+02		5.0E+03	1.2E+03		5.0E+04	1.2E+04		2.2E+03	
107062	1,2-Dichloroethane		C	9.4E-01	2.3E-01		9.4E+00	2.3E+00		9.4E+01	2.3E+01		2.3E+01	
75354	1,1-Dichloroethylene		NC	2.0E+02	5.0E+01		2.0E+03	5.0E+02		2.0E+04	5.0E+03		1.9E+02	
78875	1,2-Dichloropropane		NC	4.0E+00	8.7E-01		4.0E+01	8.7E+00		4.0E+02	8.7E+01		3.5E+01	
542756	1,3-Dichloropropene		C	6.1E+00	1.3E+00		6.1E+01	1.3E+01		6.1E+02	1.3E+02		8.4E+00	
60571	Dieldrin		C	5.3E-03	3.4E-04		5.3E-02	3.4E-03		5.3E-01	3.4E-02		8.6E+00	
115297	Endosulfan	X	NC	2.1E+01	1.3E+00		2.1E+02	1.3E+01		**	**		**	
106898	Epichlorohydrin		NC	1.0E+00	2.6E-01		1.0E+01	2.6E+00		1.0E+02	2.6E+01		8.0E+02	
60297	Ethyl ether	X	NC	7.0E+02	2.3E+02		7.0E+03	2.3E+03		7.0E+04	2.3E+04		5.2E+02	
141786	Ethylacetate	X	NC	3.2E+03	8.7E+02		3.2E+04	8.7E+03		3.2E+05	8.7E+04		5.6E+05	
100414	Ethylbenzene		C	2.2E+01	5.1E+00		2.2E+02	5.1E+01		2.2E+03	5.1E+02		7.0E+02 †	
75218	Ethylene oxide		C	2.4E-01	1.4E-01		2.4E+00	1.4E+00		2.4E+01	1.4E+01		1.1E+01	
97632	Ethylmethacrylate	X	NC	3.2E+02	6.8E+01		3.2E+03	6.8E+02		3.2E+04	6.8E+03		9.1E+03	
86737	Fluorene	X	NC	1.4E+02	2.1E+01		1.4E+03	2.1E+02		**	**		**	
110009	Furan	X	NC	3.5E+00	1.3E+00		3.5E+01	1.3E+01		3.5E+02	1.3E+02		1.6E+01	
58899	gamma-HCH (Lindane)	X	C	6.6E-02	5.5E-03		6.6E-01	5.5E-02		6.6E+00	5.5E-01		1.1E+02	
76448	Heptachlor		C	1.9E-02	1.2E-03		1.9E-01	1.2E-02		1.9E+00	1.2E-01		4.0E-01 †	
87683	Hexachloro-1,3-butadiene		C	1.1E+00	1.0E-01		1.1E+01	1.0E+00		1.1E+02	1.0E+01		3.3E+00	
118741	Hexachlorobenzene		C	5.3E-02	4.5E-03		5.3E-01	4.5E-02		5.3E+00	4.5E-01		1.0E+00 †	
77474	Hexachlorocyclopentadiene		NC	2.0E-01	1.8E-02		2.0E+00	1.8E-01		2.0E+01	1.8E+00		5.0E+01 †	
67721	Hexachloroethane		C	6.1E+00	6.3E-01		6.1E+01	6.3E+00		6.1E+02	6.3E+01		3.8E+01	
110543	Hexane		NC	2.0E+02	5.7E+01		2.0E+03	5.7E+02		2.0E+04	5.7E+03		2.9E+00	
74908	Hydrogen cyanide		NC	3.0E+00	2.7E+00		3.0E+01	2.7E+01		3.0E+02	2.7E+02		5.5E+02	
78831	Isobutanol	X	NC	1.1E+03	3.5E+02		1.1E+04	3.5E+03		1.1E+05	3.5E+04		2.2E+06	
7439976	Mercury (elemental)		NC	3.0E-01	3.7E-02		3.0E+00	3.7E-01		3.0E+01	3.7E+00		6.8E-01	
126987	Methacrylonitrile		NC	7.0E-01	2.6E-01		7.0E+00	2.6E+00		7.0E+01	2.6E+01		6.9E+01	
72435	Methoxychlor	X	NC	1.8E+01	1.2E+00		**	**		**	**		**	
79209	Methyl acetate	X	NC	3.5E+03	1.2E+03		3.5E+04	1.2E+04		3.5E+05	1.2E+05		7.2E+05	
96333	Methyl acrylate	X	NC	1.1E+02	3.0E+01		1.1E+03	3.0E+02		1.1E+04	3.0E+03		1.4E+04	

Table 2b: Question 4 Generic Screening Levels and Summary Sheet [1]

Risk = 1 x 10^{-5}

CAS No.	Chemical	Compounds with Provisional Toxicity Data Extrapolated From Oral Sources	Basis of Target Concentration C=cancer risk NC=noncancer risk	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-5}, HI=1) C_{target} (ug/m3)	(ppbv)	Measured or Reasonably Estimated Indoor Air Concentration [if available] (specify units)	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Shallow Soil Gas Concentration [if available] (specify units)	Target Deep Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.01 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Deep Soil Gas Concentration [if available] (specify units)	Target Groundwater Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor = 0.001 and Partitioning Across the Water Table Obeys Henry's Law C_{gw} (ug/L)	Measured or Reasonably Estimated Groundwater Concentration [if available] (specify units)
74839	Methyl bromide		NC	5.0E+00	1.3E+00		5.0E+01	1.3E+01		5.0E+02	1.3E+02		2.0E+01	
74873	Methyl chloride (chloromethane)		C	2.4E+01	1.2E+01		2.4E+02	1.2E+02		2.4E+03	1.2E+03		6.7E+01	
108872	Methylcyclohexane		NC	3.0E+03	7.5E+02		3.0E+04	7.5E+03		3.0E+05	7.5E+04		7.1E+02	
74953	Methylene bromide	X	NC	3.5E+01	4.9E+00		3.5E+02	4.9E+01		3.5E+03	4.9E+02		9.9E+02	
75092	Methylene chloride		C	5.2E+01	1.5E+01		5.2E+02	1.5E+02		5.2E+03	1.5E+03		5.8E+02	
78933	Methylethylketone (2-butanone)		NC	1.0E+03	3.4E+02		1.0E+04	3.4E+03		1.0E+05	3.4E+04		4.4E+05	
108101	Methylisobutylketone		NC	8.0E+01	2.0E+01		8.0E+02	2.0E+02		8.0E+03	2.0E+03		1.4E+04	
80626	Methylmethacrylate		NC	7.0E+02	1.7E+02		7.0E+03	1.7E+03		7.0E+04	1.7E+04		5.1E+04	
91576	2-Methylnaphthalene	X	NC	7.0E+01	1.2E+01		7.0E+02	1.2E+02		7.0E+03	1.2E+03		3.3E+03	
1634044	MTBE		NC	3.0E+03	8.3E+02		3.0E+04	8.3E+03		3.0E+05	8.3E+04		1.2E+05	
108383	m-Xylene	X	NC	7.0E+03	1.6E+03		7.0E+04	1.6E+04		7.0E+05	1.6E+05		2.3E+04	
91203	Naphthalene		NC	3.0E+00	5.7E-01		3.0E+01	5.7E+00		3.0E+02	5.7E+01		1.5E+02	
104518	n-Butylbenzene	X	NC	1.4E+02	2.6E+01		1.4E+03	2.6E+02		1.4E+04	2.6E+03		2.6E+02	
98953	Nitrobenzene		NC	2.0E+00	4.0E-01		2.0E+01	4.0E+00		2.0E+02	4.0E+01		2.0E+03	
79469	2-Nitropropane		C	9.0E-03	2.5E-03		9.0E-02	2.5E-02		9.0E-01	2.5E-01		1.8E+00	
924163	N-Nitroso-di-n-butylamine		C	1.5E-02	2.4E-03		1.5E-01	2.4E-02		1.5E+00	2.4E-01		1.2E+00	
103651	n-Propylbenzene	X	NC	1.4E+02	2.8E+01		1.4E+03	2.8E+02		1.4E+04	2.8E+03		3.2E+02	
88722	o-Nitrotoluene	X	NC	3.5E+01	6.2E+00		3.5E+02	6.2E+01		3.5E+03	6.2E+02		6.8E+04	
95476	o-Xylene	X	NC	7.0E+03	1.6E+03		7.0E+04	1.6E+04		7.0E+05	1.6E+05		3.3E+04	
106423	p-Xylene	X	NC	7.0E+03	1.6E+03		7.0E+04	1.6E+04		7.0E+05	1.6E+05		2.2E+04	
129000	Pyrene	X	NC	1.1E+02	1.3E+01		**	**		**	**		**	
135988	sec-Butylbenzene	X	NC	1.4E+02	2.6E+01		1.4E+03	2.6E+02		1.4E+04	2.6E+03		2.5E+02	
100425	Styrene		NC	1.0E+03	2.3E+02		1.0E+04	2.3E+03		1.0E+05	2.3E+04		8.9E+03	
98066	tert-Butylbenzene	X	NC	1.4E+02	2.6E+01		1.4E+03	2.6E+02		1.4E+04	2.6E+03		2.9E+02	
630206	1,1,1,2-Tetrachloroethane		C	3.3E+00	4.8E-01		3.3E+01	4.8E+00		3.3E+02	4.8E+01		3.3E+01	
79345	1,1,2,2-Tetrachloroethane		C	4.2E-01	6.1E-02		4.2E+00	6.1E-01		4.2E+01	6.1E+00		3.0E+01	
127184	Tetrachloroethylene		C	8.1E+00	1.2E+00		8.1E+01	1.2E+01		8.1E+02	1.2E+02		1.1E+01	
108883	Toluene		NC	4.0E+02	1.1E+02		4.0E+03	1.1E+03		4.0E+04	1.1E+04		1.5E+03	
156605	trans-1,2-Dichloroethylene	X	NC	7.0E+01	1.8E+01		7.0E+02	1.8E+02		7.0E+03	1.8E+03		1.8E+02	
76131	1,1,2-Trichloro-1,2,2-trifluoroethane		NC	3.0E+04	3.9E+03		3.0E+05	3.9E+04		3.0E+06	3.9E+05		1.5E+03	
120821	1,2,4-Trichlorobenzene		NC	2.0E+02	2.7E+01		2.0E+03	2.7E+02		2.0E+04	2.7E+03		3.4E+03	
79005	1,1,2-Trichloroethane		C	1.5E+00	2.8E-01		1.5E+01	2.8E+00		1.5E+02	2.8E+01		4.1E+01	
71556	1,1,1-Trichloroethane		NC	2.2E+03	4.0E+02		2.2E+04	4.0E+03		2.2E+05	4.0E+04		3.1E+03	
79016	Trichloroethylene ††	X	C	2.2E-01	4.1E-02		2.2E+00	4.1E-01		2.2E+01	4.1E+00		5.0E+00 †	
75694	Trichlorofluoromethane		NC	7.0E+02	1.2E+02		7.0E+03	1.2E+03		7.0E+04	1.2E+04		1.8E+02	
96184	1,2,3-Trichloropropane		NC	4.9E+00	8.1E-01		4.9E+01	8.1E+00		4.9E+02	8.1E+01		2.9E+02	
95636	1,2,4-Trimethylbenzene		NC	6.0E+00	1.2E+00		6.0E+01	1.2E+01		6.0E+02	1.2E+02		2.4E+01	

Table 2b: Question 4 Generic Screening Levels and Summary Sheet [1]

Risk = 1 x 10^{-5}

CAS No.	Chemical	Compounds with Provisional Toxicity Data Extrapolated From Oral Sources	Basis of Target Concentration C=cancer risk NC=noncancer risk	Target Indoor Air Concentration to Satisfy Both the Prescribed Risk Level and the Target Hazard Index [R=10^{-5}, HI=1) C_{target} (ug/m3)	(ppbv)	Measured or Reasonably Estimated Indoor Air Concentration [if available] (specify units)	Target Shallow Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.1 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Shallow Soil Gas Concentration [if available] (specify units)	Target Deep Soil Gas Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor=0.01 $C_{soil-gas}$ (ug/m3)	(ppbv)	Measured or Reasonably Estimated Deep Soil Gas Concentration [if available] (specify units)	Target Groundwater Concentration Corresponding to Target Indoor Air Concentration Where the Soil Gas to Indoor Air Attenuation Factor = 0.001 and Partitioning Across the Water Table Obeys Henry's Law C_{gw} (ug/L)	Measured or Reasonably Estimated Groundwater Concentration [if available] (specify units)
108678	1,3,5-Trimethylbenzene		NC	6.0E+00	1.2E+00		6.0E+01	1.2E+01		6.0E+02	1.2E+02		2.5E+01	
108054	Vinyl acetate		NC	2.0E+02	5.7E+01		2.0E+03	5.7E+02		2.0E+04	5.7E+03		9.6E+03	
75014	Vinyl chloride (chloroethene)		C	2.8E+00	1.1E+00		2.8E+01	1.1E+01		2.8E+02	1.1E+02		2.5E+00	

[1] AF = 0.1 for Shallow Soil Gas Target Concentration
AF = 0.01 for Deep Soil Gas Target Concentration
AF = 0.001 for Groundwater Target Concentration

* Health-based target breathing concentration exceeds maximum possible chemical vapor concentration (pathway incomplete)

** Target soil gas concentration exceeds maximum possible vapor concentration (pathway incomplete)

† The target groundwater concentration is the MCL. (The MCL for chloroform is the MCL for total Trihalomethanes. The MCL listed for m-Xylene, o-Xylene, and p-Xylene is the MCL for total Xylenes.)

†† The target concentration for trichloroethylene is based on the upper bound cancer slope factor identified in EPA's draft risk assessment for trichloroethylene (US EPA, 2001). The slope factor is based on state-of-the-art methodology, however the TCE assessment is still undergoing review. As a result, the slope factor and the target concentration values for TCE may be revised further. (See Appendix D.)