APPENDIX D
VALIDATED DATA, LABORATORY REPORT, DATA VALIDATION REPORT, AND QUALITY CONTROL DATA SUMMARY

(Provided on CD only)

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ABBREVIATIONS AND ACRONYMS

EPA	U.S. Environmental Protection Agency
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicat
MS	Matrix spike
MSD	Matrix spike duplicate
PARCC	Precision, accuracy, representativeness, completeness, and comparability
RAGS	Risk assessment guidance for superfund sites
RPD	Relative percent difference
QC	Quality assurance and quality control
Tetra Tech	Tetra Tech EM Inc.

D1.0 INTRODUCTION

This document summarizes the precision, accuracy, representativeness, comparability and completeness (PARCC) of the data collected by Tetra Tech EM Inc. (Tetra Tech) at the former Orion Park Housing Area (OPHA) (Site) in Moffett Field, California. Between January and February 2011, 27 water samples and 1 soil sample, including quality control (QC) samples, were collected and analyzed from the OPHA site. All data collected during this investigation were validated. Data validation is a systematic process for reviewing and qualifying data against a set of criteria to determine whether they are adequate for their intended use. The laboratory analytical data were validated according to procedures outlined in the Tetra Tech data validation statement of work (Tetra Tech 2010). The overall objective of data validation was to determine whether the quality of the chemical data set was adequate for its intended purpose, as defined by the precision, accuracy, representativeness, completeness, and comparability (PARCC) parameters in EPA guidance (EPA 1997).

D2.0 PRECISION, ACCURACY, REPRESENTATIVENESS, COMPLETENESS, AND COMPARABILITY EVALUATION SUMMARY

The following paragraphs discuss overall data quality, including PARCC parameters, as determined during data validation.

D2.1 PRECISION

Precision is a measure of the reproducibility of an experimental value without regard to the true or reference value. Primary indicators of data precision were the relative percent difference (RPD) of the matrix spike/matrix spike duplicate (MS/MSD), the RPD of the laboratory control spike/laboratory control spike duplicate (LCS/LSCD), and the RPD of the sample and sample duplicate. The following list summarizes data precision:

- The MS/MSD RPDs were within QC criteria.
- The LCS/LCSD RPDs were slightly above QC criteria for carbon disulfide. Two sample results were qualified as estimated.
- The RPD was above QC criteria for trans-1,2-dichloroethene in one field duplicate pair of samples. The RPD was above QC criteria for ethylbenzene, m/p-xylene, and toluene in the second field duplicate pair of samples.

D2.2 ACCURACY

Accuracy assesses the closeness of an experimental value to the true or reference value. Primary accuracy indicators were the recoveries of surrogate spikes, MS, and LCS spikes. All surrogate spikes, MS, and LCS spike recovery criteria were met for the OPHA site data.

D2.3 REPRESENTATIVENESS

Representativeness refers to the ability of sample data to reflect true environmental conditions. Factors that affect representativeness include sampling locations, frequency, collection procedures, and possible compromises to sample integrity (such as cross-contamination) that can occur during collection, transport, and analysis. Selection of representative sampling sites is important to ensure that the medium sampled is typical of the site. Correct sample collection, transport, and analytical procedures are important to ensure that samples closely resemble the medium sampled and to minimize contamination.

Laboratory and field blank samples were analyzed to determine the existence and magnitude of contamination resulting from sample collection or laboratory activities. Blanks prepared and analyzed in the laboratory consisted of calibration blanks and method and preparation blanks. Field blanks consisted of an equipment rinsate blank, a source blank, and 2 trip blanks. Of all analytical data from this investigation, 0.21 percent of the data (2 results for 2-butanone) was qualified as nondetected because of laboratory contamination, and 1.15% percent of the data (11 results for toluene) was qualified as nondetected because of field contamination. Except for the qualified items identified, the quality of the analytical data was not significantly compromised by laboratory or field contamination.

For the OPHA Sites investigation, the sampling locations, frequency, and collection protocols were described in the work plan (American Integrated Services/Tetra Tech 2010). These protocols followed standard accepted methods of site characterization and were approved by the regulatory agencies. Thus, with respect to accepted site characterization approaches, existing guidance, and regulatory compliance, the sampling program for this site met all relevant requirements for data representativeness.

D2.4 COMPLETENESS

Completeness is defined as the percentage of analytical results considered valid. Valid data are identified as acceptable or qualified as estimated (J) during the data validation process. Data qualified as rejected (R) are considered to be unusable and not valid.

Rejected and unusable data can be qualified during the review for the following reasons: exceeded holding time, calibration problems, low surrogate spike recovery, low LCS or MS recovery, or low internal standard areas. No OPHA site data was qualified as rejected.

The assessment of completeness consisted of comparing the amount of acceptable and usable results with the total number of expected results. For the data evaluated in this PARCC, completeness of 100 percent was achieved. One hundred percent of analytical data obtained from the OPHA site between January and February 2011 is valid and usable for site characterization, human health risk assessment, and ecological risk assessment purposes.

D2.5 COMPARABILITY

Comparability is a qualitative assessment of how well one data set compares with another. Important determinants of comparability include uniformity of sampling activities, analytical procedures, data reporting, and data validation. The use of Environmental Protection Agency (EPA) protocol, specific and well-documented EPA analytical methods; approved laboratories; and the standardized process of data review and validation give the data a high degree of analytical comparability. The use of well-established analytical protocols ensures that the data are comparable with other data collected from the OPHA site.

D3.0 RESULTS BELOW THE QUANTITATION LIMIT

For organic analyses, the analytical instruments can make reliable qualitative identification of compounds at concentrations below the quantitation limit (QL). Detected results below the QL are, however, considered quantitatively uncertain. Sample results below the QL were reported by the laboratory with a "J" qualifier and were subsequently qualified during the data validation process as "Jg" indicating that the results were estimated. Of all analytical data from this investigation, 6.39 percent of the OPHA site data was qualified as estimated because of detected results reported below the QL.

D4.0 CONCLUSIONS FOR DATA QUALITY AND DATA USABILITY

The EPA "Risk Assessment Guidance for Superfund" (RAGS) was used to determine the usability of the data. Exhibit 5-5 in RAGS states that data qualified as estimated (J) based on data validation reports is acceptable for use in quantitative risk assessments (EPA 1989). Although some qualifiers were added to the data, a final review of the data set with respect to the data quality objectives discussed previously indicated that the data are of high overall quality. The data meet all the requirements of PARCC data quality indicators described in EPA guidance for quality assurance project plans (EPA 1997) and are usable for risk assessment. All supporting documentation, including cursory and full data validation reports and database tables containing all sample results, are included as attachments to this document.

D5.0 REFERENCES

American Integrated Services/Tetra Tech EM Inc. (Tetra Tech). 2010. "Final Work Plan Supplemental Site Investigation, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California." November 5.

Tetra Tech. 2010. "Data Validation Statement of Work." April 1.

U.S. Environmental Protection Agency (EPA). 1989. "Risk Assessment Guidance for Superfund, Volume I, Human Health Evaluation Manual, Part A." Office of Solid Waste and Environmental Response. December.

EPA. 1997. "EPA Guidance for Quality Assurance Project Plans." EPA QA/G-5. Final.

TABLES

TABLE D-1: ANALYTICAL RESULTS FOR SOIL SAMPLES

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	LOC4-DP-04
Sample ID	SSI-SS-001
Sample Date	02/16/2011
Sample Depth	10.70 - 11.20
Volatile Organic Compounds (mg/kg)	
1,1,1-TRICHLOROETHANE	0.0056 U
1,1,2,2-TETRACHLOROETHANE	0.0056 U
1,1,2-TRICHLOROETHANE	0.0056 U
1,1-DICHLOROETHANE	0.0056 U
1,1-DICHLOROETHENE	0.0056 U
1,2,4-TRIMETHYLBENZENE	0.0056 U
1,2-DICHLOROETHANE	0.0056 U
1,3,5-TRIMETHYLBENZENE	0.0056 U
2-BUTANONE	0.011 U
2-HEXANONE	0.011 U
4-METHYL-2-PENTANONE	0.011 U
BENZENE	0.0056 U
BROMODICHLOROMETHANE	0.0056 U
BROMOFORM	0.0056 U
CARBON DISULFIDE	0.0056 U
CARBON TETRACHLORIDE	0.0056 U
CHLOROBENZENE	0.0056 U
CHLOROETHANE	0.0056 U
CHLOROFORM	0.0056 U
CHLOROMETHANE	0.011 U
CIS-1,2-DICHLOROETHENE	0.0056 U
DIBROMOCHLOROMETHANE	0.0056 U
DICHLORODIFLUOROMETHANE	0.011 U
ETHYLBENZENE	0.0056 U
ISOPROPYLBENZENE	0.0056 U
M,P-XYLENE	0.011 U
METHYL TERT-BUTYL ETHER	0.0056 U
METHYLENE CHLORIDE	0.011 U
O-XYLENE	0.0056 U
TETRACHLOROETHENE	0.0056 U
TOLUENE	0.0056 U
TRANS-1,2-DICHLOROETHENE	0.0056 U
TRICHLOROETHENE	0.0056 U
VINYL CHLORIDE	0.0056 U

TABLE D-1: ANALYTICAL RESULTS FOR SOIL SAMPLES (Continued)

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	LOC4-DP-04
Sample ID	SSI-SS-001
Sample Date	02/16/2011
Sample Depth	10.70 - 11.20
Petroleum Hydrocarbons (mg/kg)	
Diesel/Motor Oil Range (extractables)	
DIESEL RANGE ORGANICS	12 U
MOTOR OIL RANGE ORGANICS	25 U
Gasoline Range (purgeables)	
GASOLINE RANGE ORGANICS	1.2 U

Notes:

ID	Identification
mg/kg	Milligrams per kilogram
U	Nondetected

TABLE D-2: ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	LOC3-DP-01	LOC3-DP-01	LOC3-DP-03	LOC6B-DP-05	LOC6B-DP-06	LOC6B-DP-07	LOC6B-DP-07 (dup)
Sample ID	SSI-HP-004	SSI-HP-005	SSI-HP-004A	SSI-HP-001	SSI-HP-002	SSI-HP-007	SSI-D-002
Sample Date	02/15/2011	02/15/2011	02/14/2011	02/14/2011	02/14/2011	02/16/2011	02/16/2011
Volatile Organic Compounds (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	**0.22 J**	**0.2 J**
1,1-DICHLOROETHENE	1 U	1 U	1 U	1 U	1 U	**0.3 J**	**0.25 J**
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	**0.3 J**	**0.5 J**	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	1 U	1 U	**0.22 J**	1 U	1 U	1 U	**1.2**
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	**0.52 J**	**0.46 J**	**0.83 J**	**0.47 J**	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	**5.6**	**6.8**	**0.24 J**	**0.2 J**	1 U	**4.8**	**4.9**
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	**0.28 J**	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M,P-XYLENE	2 U	2 U	2 U	**0.88 J**	**1.6 J**	**0.5 J**	2 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	1 U	1 U	1 U	**0.36 J**	**0.66 J**	**0.2 J**	**0.22 J**
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	1 UJ	1 UJ	1 UJ	1 UJ	1.2 UJ	1 UJ	1 UJ
TRANS-1,2-DICHLOROETHENE	**0.54 J**	**0.69 J**	1 U	1 U	1 U	**0.36 J**	**0.41 J**
TRICHLOROETHENE	**94**	**110**	**0.76 J**	**0.36 J**	**0.66 J**	**45**	**49**
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U

TABLE D-2: ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES (Continued)

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	LOC6B-DP-07	LOC6B-DP-09	LOC6B-DP-10	LOC6B-DP-12	MCH-10LA	MCH-11UA	MCH-1UA
Sample ID	SSI-HP-008	SSI-HP-006	SSI-HP-009	SSI-HP-003	SSI-GW-010	SSI-GW-011	SSI-GW-001
Sample Date	02/16/2011	02/15/2011	02/16/2011	02/14/2011	01/04/2011	01/03/2011	01/04/2011
Volatile Organic Compounds (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	**0.23 J**	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	**0.28 J**	1 U	1 U	1 U	**0.28 J**	**0.45 J**	**0.9 J**
1,2,4-TRIMETHYLBENZENE	1 U	1 U	**0.34 J**	1	U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	**1.5**	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 U	**0.33 J**	**0.38 J**	**0.41 J**	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	**4.9**	**3.8**	1 U	**3.9**	**11**	**130**	**150**
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	**0.23 J**	1 U	**0.26 J**	1 U	1 U	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M,P-XYLENE	**0.44 J**	2 U	**1.2 J**	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	**0.28 J**	1 U	**0.57 J**	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TOLUENE	1.5 UJ	1 UJ	1.2 UJ	1 UJ	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	**0.42 J**	**0.46 J**	1 U	**0.28 J**	**1.2**	**2.4**	**7.4**
TRICHLOROETHENE	**50**	**99**	**0.25 J**	**14**	**720**	**210**	**110**
VINYL CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	**1.2**

TABLE D-2: ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES (Continued)

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	**MCH-2LA**	**MCH-3UA**	**MCH-4LA**	**MCH-5UA**	**MCH-6LA**	**MCH-7UA**	**MCH-8LA**
Sample ID	SSI-GW-002	SSI-GW-003	SSI-GW-004	SSI-GW-005	SSI-GW-006	SSI-GW-007	SSI-GW-008
Sample Date	01/04/2011	01/04/2011	01/03/2011	01/03/2011	01/04/2011	01/03/2011	01/03/2011
Volatile Organic Compounds (µg/L)							
1,1,1-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-DICHLOROETHENE	**2.8**	1 U	**0.42 J**	1 U	**0.42 J**	**0.57 J**	1 U
1,2,4-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-BUTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-HEXANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U	10 U	10 U	10 U	10 U	10 U
BENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
BROMOFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CARBON DISULFIDE	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROFORM	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
CIS-1,2-DICHLOROETHENE	**630**	**120**	**51**	**0.23 J**	**36**	**170**	**0.92 J**
DIBROMOCHLOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ETHYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
M,P-XYLENE	2 U	2 U	2 U	2 U	2 U	2 U	2 U
METHYL TERT-BUTYL ETHER	1 U	1 U	1 U	1 U	1 U	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
O-XYLENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TETRACHLOROETHENE	1 U	**0.38 J**	1 U	1 U	1 U	1 U	1 U
TOLUENE	1 U	1 U	1 U	1 U	1 U	1 U	1 U
TRANS-1,2-DICHLOROETHENE	**24**	**5.4**	**2.4**	1 U	**0.98 J**	**4.2**	1 U
TRICHLOROETHENE	**210**	**110**	**420**	**2.8**	**620**	**180**	**3.6**
VINYL CHLORIDE	**2.6**	1 U	**0.23 J**	1 U	1 U	**0.39 J**	1 U

TABLE D-2: ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES (Continued)

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Sample Location ID	MCH-9UA (dup)	MCH-9UA
Sample ID	SSI-D-001	SSI-GW-009
Sample Date	01/03/2011	01/03/2011
Volatile Organic Compounds (µg/L)		
1,1,1-TRICHLOROETHANE	1 U	1 U
1,1,2,2-TETRACHLOROETHANE	1 U	1 U
1,1,2-TRICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHANE	1 U	1 U
1,1-DICHLOROETHENE	**0.94 J**	**0.94 J**
1,2,4-TRIMETHYLBENZENE	1 U	1 U
1,2-DICHLOROETHANE	1 U	1 U
1,3,5-TRIMETHYLBENZENE	1 U	1 U
2-BUTANONE	10 U	10 U
2-HEXANONE	10 U	10 U
4-METHYL-2-PENTANONE	10 U	10 U
BENZENE	1 U	1 U
BROMODICHLOROMETHANE	1 U	1 U
BROMOFORM	1 U	1 U
CARBON DISULFIDE	1 U	1 U
CARBON TETRACHLORIDE	1 U	1 U
CHLOROBENZENE	1 U	1 U
CHLOROETHANE	1 U	1 U
CHLOROFORM	1 U	1 U
CHLOROMETHANE	1 U	1 U
CIS-1,2-DICHLOROETHENE	**160**	**160**
DIBROMOCHLOROMETHANE	1 U	1 U
DICHLORODIFLUOROMETHANE	1 U	1 U
ETHYLBENZENE	1 U	1 U
ISOPROPYLBENZENE	1 U	1 U
M,P-XYLENE	2 U	2 U
METHYL TERT-BUTYL ETHER	1 U	1 U
METHYLENE CHLORIDE	1 U	1 U
O-XYLENE	1 U	1 U
TETRACHLOROETHENE	1 U	1 U
TOLUENE	1 U	1 U
TRANS-1,2-DICHLOROETHENE	**2.8**	**2.7**
TRICHLOROETHENE	**400**	**400**
VINYL CHLORIDE	**0.23 J**	**0.25 J**

TABLE D-2: ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES (Continued)

Supplemental Site Investigation Report, Former Orion Park Housing Area, Former Naval Air Station Moffett Field, Moffett Field, California

Notes:

ID	Identification
J	Estimated value
U	Nondetected
µg/L	Micrograms per liter

ATTACHMENT D-1
LABORATORY REPORT AND DATA VALIDATION REPORT FOR GROUNDWATER SAMPLES, JANUARY 2011

CLIENT: **TETRA TECH EMI**

PROJECT: **OPHA MOFFETT**

SDG: **11A027**

I certify this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than that the conditions detailed in the report. Release of the data contained in this hardcopy data package and in the computer-readable data submitted in CD ROM has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Caspar J. Pang
Laboratory Director

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PROJECT: **OPHA MOFFETT**

SDG: **11A027**

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GC-VOA	**	4000 –
GC-SVOA	**	5000 –
HPLC	**	6000 –
METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 01-26-2011
EMAX Batch No.: 11A027

Attn: Sara Woolley

Tetra Tech EMI
1999 Harrison Street, Suite 500
Oakland, CA 94612

Subject: Laboratory Report
Project: OPHA Moffett

Enclosed is the Laboratory report for samples received on 01/05/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
SSI-GW-001	A027-01	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-002	A027-02	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-003	A027-03	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-004	A027-04	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-005	A027-05	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-006	A027-06	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-007	A027-07	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-008	A027-08	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-009	A027-09	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-010	A027-10	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-011	A027-11	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-D-001	A027-12	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-ER-001	A027-13	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-SWB-001	A027-14	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-TB-002	A027-15	01/04/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-008MS	A027-08M	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-GW-008MSD	A027-08S	01/03/11	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

11A027

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9209

Lab PO#: to follow

Lab: EMAX

Project name: OPHA Moffett

TtEMI technical contact: Sara Woolley

Field samplers: Dayna Yocum, Rebecca Johnson

Project (CTO) number: 10361521 0302

TtEMI project manager: Dayna Yocum

Field samplers' signatures: Dayna Y. Rebe

Preservative Added: HCl

	Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
1	~~SSS~~ SSI-GW-001		1/4/11	1000	water		3							X						
2	002		1/4/11	1025			3													
3	003		1/4/11	0820			3													
4	004		1/3/11	1505			3													
5	005		1/3/11	1410			3													
6	006		1/4/11	1210			3													
7	007		1/3/11	0835			3													
8	008		1/3/11	0925		X	9													
9	009		1/3/11	1250			3													
10	010		1/4/11	1320			3													
11	011		1/3/11	1135			3													
12	SSI-D-001		1/3/11	1255			3													

	Name (print)	Company Name	Date	Time
Relinquished by: Dayna Y.	Dayna Yocum	TTEMI	1/4/11	1530
Received by: Myo Aung	MYO AUNG	EMAX	1/5/11	09:30
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks: 2 day TAT

Fed Ex #:

1001

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9217

11A027

Lab PO#: to follow

Lab: EMAX

Project name: OPHA Moffett

TtEMI technical contact: Sara Woolley

Field samplers: Dayna Yocum, Rebecca Johnson

Project (CTO) number: 103G1521 03.02

TtEMI project manager: Dayna Yocum

Field samplers' signatures: [signature] [signature]

Preservative Added: HCl

	Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
13	SS1-ER-001		1/4/11	1400	water		3							X						
14	SS1-SWB-001		↓	1405	↓		3							X						
15	SS1-TB-002		↓	1410	↓		1							X						

	Name (print)	Company Name	Date	Time
Relinquished by: [signature]	Dayna Yocum	TTEMI	1/4/11	1530
Received by: [signature]	MYO AUNG	EMAX	1/5/11	09:30
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks: 2 day TAT

Fed Ex #:

1002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11A027
☐ EMAX Courier		Recepient I Patel / Aung
☐ Client Delivery		Date 1/5/11
☐ Third Party Fedex	8742 5035 0018	Time 9:30AM

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☑ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☑ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☐ Plastic bag
Temperatures (Cool, ≤6 °C but not frozen) A	☑ Cooler 1 3.0 °C	☐ Cooler 2 ____ °C	☐ Cooler 3 ____ °C	☐ Cooler 4 ____ °C	☐ Cooler 5 ____ °C
	☐ Cooler 6 ____ °C	☐ Cooler 7 ____ °C	☐ Cooler 8 ____ °C	☐ Cooler 9 ____ °C	☐ Cooler 10 ____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
01, 02, 09, 13			RECD one vial	R5, R6
			Broken (C2)	
-07			RECD (2) vials	R5, R6
			Broken (C2)	
-11		Time 11:45	D3	R5, R7

REVIEWS

Sample Labeling [signature] Date 1-5-11

SRF [signature] Date 01/05/11

PM [signature] Date 1/5/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4		E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Inform client.
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	Analyze remaining intact vials.
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm	R7.	R2
B4		G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
✓ C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1			
C4		H2			

84

100 **FedEx** Express **US Airbill** FedEx Tracking Number 8742 5035 0018

RECIPIENT: PEEL HERE

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1 From This portion can be removed for Recipient's records.

Date 1/4/11 FedEx Tracking Number 874250350018

Sender's Name Dayna Hilum Phone

Company 11A027

Address

Dept./Floor/Suite/Room

City OAKLAND State CA ZIP

2 Your Internal Billing Reference 10361521 Task 0302

3 To Recipient's Name Y. Nyak Phone 310 618-2889

Company EMAX Industries

Address 1835 West 205th Street

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Torrance State CA ZIP 90501

HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

8742 5035 0018

1/5/11 09:30am

T-3.0'c

SLA13

4a Express Package Service * To most locations. Packages up to 150 lbs.

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.*
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. Packages over 150 lbs.

- [ ] FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- FedEx 1Day Freight Booking No.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak and FedEx Large Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

6 Special Handling and Delivery Signature Options

- [ ] SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain recip. Acct. No. [ ]

Total Packages ____ Total Weight ____ lbs. Credit Card Auth.

*Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

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1201

REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

SUMMARY PACKAGE
VOLATILE ORGANICS

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11A027

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of fifteen (15) water samples were received on 01/05/11 for Volatile Organics by GC/MS analysis, Method 5030B/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, five (5) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
Five (5) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries were within QC limits except for one result RPD as qualified with [*] in VO01A03L/C summary form. Check QC summary form for details.
Percent recoveries for VO01A04L/C were all within QC limits.
Percent recoveries for VO01A05X/C were all within QC limits.
Percent recoveries for VO01A06L/C were all within QC limits.
Percent recoveries for VO01A12L/C were all within QC limits.

Matrix QC Sample
A set of MS/MSD was analyzed with the samples in this SDG.
Percent recoveries for A027-08G/H were within project QC limits.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11A027
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001A03B	1	NA	01/05/1110:22	01/05/1110:22	RAV048	RLV333	V001A03	Method Blank
LCS1W	V001A03L	1	NA	01/05/1108:44	01/05/1108:44	RAV045	RLV333	V001A03	Lab Control Sample (LCS)
LCD1W	V001A03C	1	NA	01/05/1109:17	01/05/1109:17	RAV046	RLV333	V001A03	LCS Duplicate
SSI-TB-002	A027-15	1	NA	01/05/1114:08	01/05/1114:08	RAV055	RLV333	V001A03	Field Sample
SSI-GW-007DL	A027-07T	50	NA	01/05/1114:40	01/05/1114:40	RAV056	RLV333	V001A03	Diluted Sample
SSI-GW-002	A027-02	1	NA	01/05/1115:13	01/05/1115:13	RAV057	RLV333	V001A03	Field Sample
MBLK2W	V001A04B	1	NA	01/05/1122:42	01/05/1122:42	RAV071	RLV333	V001A04	Method Blank
LCS2W	V001A04L	1	NA	01/05/1121:06	01/05/1121:06	RAV068	RLV333	V001A04	Lab Control Sample (LCS)
LCD2W	V001A04C	1	NA	01/05/1121:40	01/05/1121:40	RAV069	RLV333	V001A04	LCS Duplicate
SSI-GW-009	A027-09	1	NA	01/05/1123:14	01/05/1123:14	RAV072	RLV333	V001A04	Field Sample
SSI-GW-010	A027-10	1	NA	01/05/1123:47	01/05/1123:47	RAV073	RLV333	V001A04	Field Sample
SSI-GW-011	A027-11	1	NA	01/06/1100:19	01/06/1100:19	RAV074	RLV333	V001A04	Field Sample
SSI-D-001	A027-12	1	NA	01/06/1100:51	01/06/1100:51	RAV075	RLV333	V001A04	Field Sample
SSI-GW-001	A027-01	1	NA	01/06/1102:29	01/06/1102:29	RAV078	RLV333	V001A04	Field Sample
MBLK3W	V001A05B	1	NA	01/06/1118:44	01/06/1118:44	RAV090	RLV333	V001A05	Method Blank
LCS3W	V001A05X	1	NA	01/06/1117:39	01/06/1117:39	RAV088	RLV333	V001A05	Lab Control Sample (LCS)
LCD3W	V001A05C	1	NA	01/06/1117:07	01/06/1117:07	RAV087	RLV333	V001A05	LCS Duplicate
SSI-GW-005	A027-05R	1	NA	01/06/1119:17	01/06/1119:17	RAV091	RLV333	V001A05	Field Sample
SSI-ER-001	A027-13R	1	NA	01/06/1119:49	01/06/1119:49	RAV092	RLV333	V001A05	Field Sample
SSI-SWB-001	A027-14R	1	NA	01/06/1120:22	01/06/1120:22	RAV093	RLV333	V001A05	Field Sample
SSI-GW-001DL	A027-01T	10	NA	01/06/1122:33	01/06/1122:33	RAV097	RLV333	V001A05	Diluted Sample
SSI-GW-002DL	A027-02T	50	NA	01/06/1123:07	01/06/1123:07	RAV098	RLV333	V001A05	Diluted Sample
SSI-GW-003DL	A027-03T	10	NA	01/06/1123:39	01/06/1123:39	RAV099	RLV333	V001A05	Diluted Sample
SSI-GW-004DL	A027-04T	10	NA	01/07/1100:12	01/07/1100:12	RAV100	RLV333	V001A05	Diluted Sample
SSI-GW-003	A027-03R	1	NA	01/07/1100:44	01/07/1100:44	RAV101	RLV333	V001A05	Field Sample
SSI-GW-007	A027-07	1	NA	01/07/1101:17	01/07/1101:17	RAV102	RLV333	V001A05	Field Sample
SSI-GW-004	A027-04R	1	NA	01/07/1102:22	01/07/1102:22	RAV104	RLV333	V001A05	Field Sample
SSI-GW-006	A027-06R	1	NA	01/07/1102:55	01/07/1102:55	RAV105	RLV333	V001A05	Field Sample
MBLK4W	V001A06B	1	NA	01/07/1107:20	01/07/1107:20	RAV113	RLV333	V001A06	Method Blank
LCS4W	V001A06L	1	NA	01/07/1105:41	01/07/1105:41	RAV110	RLV333	V001A06	Lab Control Sample (LCS)
LCD4W	V001A06C	1	NA	01/07/1106:14	01/07/1106:14	RAV111	RLV333	V001A06	LCS Duplicate
SSI-GW-006DL	A027-06T	50	NA	01/07/1107:53	01/07/1107:53	RAV114	RLV333	V001A06	Diluted Sample
SSI-GW-009DL	A027-09T	25	NA	01/07/1108:26	01/07/1108:26	RAV115	RLV333	V001A06	Diluted Sample
SSI-GW-010DL	A027-10T	25	NA	01/07/1108:59	01/07/1108:59	RAV116	RLV333	V001A06	Diluted Sample
SSI-GW-011DL	A027-11T	10	NA	01/07/1109:31	01/07/1109:31	RAV117	RLV333	V001A06	Diluted Sample
SSI-D-001DL	A027-12T	10	NA	01/07/1110:05	01/07/1110:05	RAV118	RLV333	V001A06	Diluted Sample
MBLK5W	V001A12B	1	NA	01/11/1113:12	01/11/1113:12	RAV209	RLV333	V001A12	Method Blank
LCS5W	V001A12L	1	NA	01/11/1111:33	01/11/1111:33	RAV206	RLV333	V001A12	Lab Control Sample (LCS)
LCD5W	V001A12C	1	NA	01/11/1112:05	01/11/1112:05	RAV207	RLV333	V001A12	LCS Duplicate
SSI-GW-008	A027-08N	1	NA	01/11/1113:43	01/11/1113:43	RAV210	RLV333	V001A12	Field Sample
SSI-GW-008MS	A027-08G	1	NA	01/11/1114:16	01/11/1114:16	RAV211	RLV333	V001A12	Matrix Spike Sample (MS)
SSI-GW-008MSD	A027-08H	1	NA	01/11/1114:49	01/11/1114:49	RAV212	RLV333	V001A12	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 02:29
Sample ID:	SSI-GW-001	Date Analyzed:	01/06/11 02:29
Lab Samp ID:	A027-01	Dilution Factor:	1
Lab File ID:	RAV078	Matrix	: WATER
Ext Btch ID:	V001A04	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.90J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	7.4	1.0	0.20
TRICHLOROETHENE	110E	1.0	0.20
VINYL CHLORIDE	1.2	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.89	10.00	98.9	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	9.89	10.00	98.9	85-120
DIBROMOFLUOROMETHANE	9.94	10.00	99.4	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/06/11 22:33
Sample ID: SSI-GW-001DL	Date Analyzed: 01/06/11 22:33
Lab Samp ID: A027-01T	Dilution Factor: 10
Lab File ID: RAV097	Matrix : WATER
Ext Btch ID: VOD1A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	150	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	7.3J	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	107	100.0	107	75-120
TOLUENE-D8	97.7	100.0	97.7	85-120
DIBROMOFLUOROMETHANE	100	100.0	100	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 15:13
Sample ID:	SSI-GW-002	Date Analyzed:	01/05/11 15:13
Lab Samp ID:	A027-02	Dilution Factor:	1
Lab File ID:	RAV057	Matrix :	WATER
Ext Btch ID:	V001A03	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	2.8	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLORODETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	390E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	24	1.0	0.20
TRICHLOROETHENE	190E	1.0	0.20
VINYL CHLORIDE	2.6	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.58	10.00	95.8	70-120
4-BROMOFLUOROBENZENE	11.2	10.00	112	75-120
TOLUENE-D8	10.1	10.00	101	85-120
DIBROMOFLUOROMETHANE	9.67	10.00	96.7	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 23:07
Sample ID:	SSI-GW-002DL	Date Analyzed:	01/06/11 23:07
Lab Samp ID:	A027-02T	Dilution Factor:	50
Lab File ID:	RAV098	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	630	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	26J	50	10
TRICHLOROETHENE	210	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	510	500.0	102	70-120
4-BROMOFLUOROBENZENE	530	500.0	106	75-120
TOLUENE-D8	493	500.0	98.6	85-120
DIBROMOFLUOROMETHANE	500	500.0	100	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 00:44
Sample ID:	SSI-GW-003	Date Analyzed:	01/07/11 00:44
Lab Samp ID:	A027-03R	Dilution Factor:	1
Lab File ID:	RAV101	Matrix :	WATER
Ext Btch ID:	VO01A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	110E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	0.38J	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	5.4	1.0	0.20
TRICHLOROETHENE	100E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.95	10.00	99.5	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.77	10.00	97.7	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 23:39
Sample ID:	SSI-GW-003DL	Date Analyzed:	01/06/11 23:39
Lab Samp ID:	A027-03T	Dilution Factor:	10
Lab File ID:	RAV099	Matrix :	WATER
Ext Btch ID:	VO01A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	120	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	5.3J	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	106	100.0	106	75-120
TOLUENE-D8	98.5	100.0	98.5	85-120
DIBROMOFLUOROMETHANE	101	100.0	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 02:22
Sample ID:	SSI-GW-004	Date Analyzed:	01/07/11 02:22
Lab Samp ID:	A027-04R	Dilution Factor:	1
Lab File ID:	RAV104	Matrix :	WATER
Ext Btch ID:	VO01A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.42J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	51	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.4	1.0	0.20
TRICHLOROETHENE	300E	1.0	0.20
VINYL CHLORIDE	0.23J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.96	10.00	99.6	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	9.90	10.00	99.0	85-120
DIBROMOFLUOROMETHANE	9.89	10.00	98.9	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/07/11 00:12
Sample ID: SSI-GW-004DL	Date Analyzed: 01/07/11 00:12
Lab Samp ID: A027-04T	Dilution Factor: 10
Lab File ID: RAV100	Matrix : WATER
Ext Btch ID: VO01A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	54	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.7J	10	2.0
TRICHLOROETHENE	420	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	100.0	101	70-120
4-BROMOFLUOROBENZENE	106	100.0	106	75-120
TOLUENE-D8	98.8	100.0	98.8	85-120
DIBROMOFLUOROMETHANE	101	100.0	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 19:17
Sample ID:	SSI-GW-005	Date Analyzed:	01/06/11 19:17
Lab Samp ID:	A027-05R	Dilution Factor:	1
Lab File ID:	RAV091	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	0.23J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	2.8	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.93	10.00	99.3	70-120
4-BROMOFLUOROBENZENE	10.4	10.00	104	75-120
TOLUENE-D8	9.98	10.00	99.8	85-120
DIBROMOFLUOROMETHANE	9.94	10.00	99.4	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 02:55
Sample ID:	SS1-GW-006	Date Analyzed:	01/07/11 02:55
Lab Samp ID:	A027-06R	Dilution Factor:	1
Lab File ID:	RAV105	Matrix :	WATER
Ext Btch ID:	VO01A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.42J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	36	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.98J	1.0	0.20
TRICHLOROETHENE	350E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.92	10.00	99.2	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 07:53
Sample ID:	SSI-GW-006DL	Date Analyzed:	01/07/11 07:53
Lab Samp ID:	A027-06T	Dilution Factor:	50
Lab File ID:	RAV114	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	43J	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	ND	50	10
TRICHLOROETHENE	620	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	547	500.0	109	70-120
4-BROMOFLUOROBENZENE	510	500.0	102	75-120
TOLUENE-D8	480	500.0	95.9	85-120
DIBROMOFLUOROMETHANE	526	500.0	105	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 01:17
Sample ID:	SSI-GW-007	Date Analyzed:	01/07/11 01:17
Lab Samp ID:	A027-07	Dilution Factor:	1
Lab File ID:	RAV102	Matrix	: WATER
Ext Btch ID:	V001A05	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.57J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	130E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	4.2	1.0	0.20
TRICHLOROETHENE	140E	1.0	0.20
VINYL CHLORIDE	0.39J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.71	10.00	97.1	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.95	10.00	99.5	85-120
DIBROMOFLUOROMETHANE	9.73	10.00	97.3	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 14:40
Sample ID:	SSI-GW-007DL	Date Analyzed:	01/05/11 14:40
Lab Samp ID:	A027-07T	Dilution Factor:	50
Lab File ID:	RAV056	Matrix :	WATER
Ext Btch ID:	V001A03	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	170	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	ND	50	10
TRICHLOROETHENE	180	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	489	500.0	97.7	70-120
4-BROMOFLUOROBENZENE	531	500.0	106	75-120
TOLUENE-D8	490	500.0	97.9	85-120
DIBROMOFLUOROMETHANE	481	500.0	96.1	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/11/11 13:43
Sample ID:	SSI-GW-008	Date Analyzed:	01/11/11 13:43
Lab Samp ID:	A027-08W	Dilution Factor:	1
Lab File ID:	RAV210	Matrix	: WATER
Ext Btch ID:	V001A12	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	0.92J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	3.6	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.64	10.00	96.4	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.75	10.00	97.5	85-120
DIBROMOFLUOROMETHANE	9.80	10.00	98.0	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 23:14
Sample ID:	SSI-GW-009	Date Analyzed:	01/05/11 23:14
Lab Samp ID:	A027-09	Dilution Factor:	1
Lab File ID:	RAV072	Matrix :	WATER
Ext Btch ID:	V001A04	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.94J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.7	1.0	0.20
TRICHLOROETHENE	300E	1.0	0.20
VINYL CHLORIDE	0.25J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.72	10.00	97.2	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	9.92	10.00	99.2	85-120
DIBROMOFLUOROMETHANE	9.75	10.00	97.5	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 08:26
Sample ID:	SSI-GW-009DL	Date Analyzed:	01/07/11 08:26
Lab Samp ID:	A027-09T	Dilution Factor:	25
Lab File ID:	RAV115	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	ND	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	160	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
METHYLENE CHLORIDE	ND	25	12
METHYL TERT-BUTYL ETHER	ND	25	5.0
O-XYLENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRICHLOROETHENE	400	25	5.0
VINYL CHLORIDE	ND	25	5.0
1,2,4-TRIMETHYLBENZENE	ND	25	5.0
1,3,5-TRIMETHYLBENZENE	ND	25	5.0
DICHLORODIFLUOROMETHANE	ND	25	7.5
ISOPROPYLBENZENE	ND	25	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	263	250.0	105	70-120
4-BROMOFLUOROBENZENE	265	250.0	106	75-120
TOLUENE-D8	243	250.0	97.2	85-120
DIBROMOFLUOROMETHANE	252	250.0	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 23:47
Sample ID:	SSI-GW-010	Date Analyzed:	01/05/11 23:47
Lab Samp ID:	A027-10	Dilution Factor:	1
Lab File ID:	RAV073	Matrix :	WATER
Ext Btch ID:	V001A04	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.28J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	11	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	1.2	1.0	0.20
TRICHLOROETHENE	380E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.97	10.00	99.7	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	10.0	10.00	100	85-120
DIBROMOFLUOROMETHANE	9.90	10.00	99.0	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 08:59
Sample ID:	SSI-GW-010DL	Date Analyzed:	01/07/11 08:59
Lab Samp ID:	A027-10T	Dilution Factor:	25
Lab File ID:	RAV116	Matrix :	WATER
Ext Btch ID:	VO01A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	ND	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	14J	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
METHYLENE CHLORIDE	ND	25	12
METHYL TERT-BUTYL ETHER	ND	25	5.0
O-XYLENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRICHLOROETHENE	720	25	5.0
VINYL CHLORIDE	ND	25	5.0
1,2,4-TRIMETHYLBENZENE	ND	25	5.0
1,3,5-TRIMETHYLBENZENE	ND	25	5.0
DICHLORODIFLUOROMETHANE	ND	25	7.5
ISOPROPYLBENZENE	ND	25	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	263	250.0	105	70-120
4-BROMOFLUOROBENZENE	263	250.0	105	75-120
TOLUENE-D8	242	250.0	96.9	85-120
DIBRDMOFLUOROMETHANE	252	250.0	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 00:19
Sample ID:	SSI-GW-011	Date Analyzed:	01/06/11 00:19
Lab Samp ID:	A027-11	Dilution Factor:	1
Lab File ID:	RAV074	Matrix :	WATER
Ext Btch ID:	V001A04	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.45J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	110E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.4	1.0	0.20
TRICHLOROETHENE	180E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.92	10.00	99.2	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.89	10.00	98.9	85-120
DIBROMOFLUOROMETHANE	9.88	10.00	98.8	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/07/11 09:31
Sample ID: SSI-GW-011DL	Date Analyzed: 01/07/11 09:31
Lab Samp ID: A027-11T	Dilution Factor: 10
Lab File ID: RAV117	Matrix : WATER
Ext Btch ID: V001A06	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	130	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.7J	10	2.0
TRICHLOROETHENE	210	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	100.0	104	70-120
4-BROMOFLUOROBENZENE	105	100.0	105	75-120
TOLUENE-D8	98.0	100.0	98.0	85-120
DIBROMOFLUOROMETHANE	102	100.0	102	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 00:51
Sample ID:	SSI-D-001	Date Analyzed:	01/06/11 00:51
Lab Samp ID:	A027-12	Dilution Factor:	1
Lab File ID:	RAV075	Matrix	: WATER
Ext Btch ID:	V001A04	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.94J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.8	1.0	0.20
TRICHLOROETHENE	290E	1.0	0.20
VINYL CHLORIDE	0.23J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	9.88	10.00	98.8	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/07/11 10:05
Sample ID: SSI-D-001DL	Date Analyzed: 01/07/11 10:05
Lab Samp ID: A027-12T	Dilution Factor: 10
Lab File ID: RAV118	Matrix : WATER
Ext Btch ID: V001A06	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	160	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.9J	10	2.0
TRICHLOROETHENE	400	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	100.0	103	70-120
4-BROMOFLUOROBENZENE	104	100.0	104	75-120
TOLUENE-D8	98.0	100.0	98.0	85-120
DIBROMOFLUOROMETHANE	102	100.0	102	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/06/11 19:49
Sample ID: SSI-ER-001	Date Analyzed: 01/06/11 19:49
Lab Samp ID: A027-13R	Dilution Factor: 1
Lab File ID: RAV092	Matrix : WATER
Ext Btch ID: V001A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.88	10.00	98.8	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.89	10.00	98.9	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 20:22
Sample ID:	SSI-SWB-001	Date Analyzed:	01/06/11 20:22
Lab Samp ID:	A027-14R	Dilution Factor:	1
Lab File ID:	RAV093	Matrix	: WATER
Ext Btch ID:	V001A05	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.66	10.00	96.6	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.67	10.00	96.7	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 14:08
Sample ID:	SSI-TB-002	Date Analyzed:	01/05/11 14:08
Lab Samp ID:	A027-15	Dilution Factor:	1
Lab File ID:	RAV055	Matrix	: WATER
Ext Btch ID:	V001A03	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	8.90	10.00	89.0	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.21	10.00	92.1	85-115

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 10:22
Sample ID: MBLK1W	Date Analyzed: 01/05/11 10:22
Lab Samp ID: V001A03B	Dilution Factor: 1
Lab File ID: RAV048	Matrix : WATER
Ext Btch ID: V001A03	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.99	10.00	99.9	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.96	10.00	99.6	85-120
DIBROMOFLUOROMETHANE	9.86	10.00	98.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001A03B	V001A03L	V001A03C		
LAB FILE ID:	RAV048	RAV045	RAV046		
DATE EXTRACTED:	01/05/1110:22	01/05/1108:44	01/05/1109:17	DATE COLLECTED:	NA
DATE ANALYZED:	01/05/1110:22	01/05/1108:44	01/05/1109:17	DATE RECEIVED:	01/05/11
PREP. BATCH:	V001A03	V001A03	V001A03		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.3	103	10.0	10.3	103	0	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.88	99	10.0	9.16	92	8	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.85	99	10.0	9.49	95	4	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	10.6	106	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.76	98	10.0	11.0	110	12	70-130	30
1,2-Dichloroethane	ND	10.0	9.70	97	10.0	9.61	96	1	70-130	30
2-Butanone	ND	50.0	47.4	95	50.0	46.4	93	2	30-150	30
2-Hexanone	ND	50.0	45.7	91	50.0	45.0	90	2	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.0	90	50.0	44.1	88	2	60-135	30
Benzene	ND	10.0	10.1	101	10.0	10.1	101	0	80-120	30
Bromodichloromethane	ND	10.0	9.74	97	10.0	9.47	95	3	75-120	30
Bromoform	ND	10.0	10.2	102	10.0	9.68	97	5	70-130	30
Carbon Disulfide	ND	10.0	9.38	94	10.0	6.76	68	32*	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	10.3	103	2	65-140	30
Chlorobenzene	ND	10.0	10.3	103	10.0	10.3	103	0	80-120	30
Chloroethane	ND	10.0	9.46	95	10.0	8.02	80	16	60-135	30
Chloroform	ND	10.0	10.0	100	10.0	10.2	102	2	65-135	30
Chloromethane	ND	10.0	10.5	105	10.0	7.71	77	30	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.1	101	10.0	9.55	95	6	70-125	30
Dibromochloromethane	ND	10.0	9.63	96	10.0	9.23	92	4	60-135	30
Ethylbenzene	ND	10.0	10.1	101	10.0	9.89	99	2	75-125	30
m/p-Xylenes	ND	20.0	20.3	101	20.0	20.0	100	1	75-130	30
Methylene Chloride	ND	10.0	9.01	90	10.0	9.29	93	3	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.81	98	10.0	9.49	95	3	65-125	30
o-Xylene	ND	10.0	10.2	102	10.0	9.97	100	3	80-120	30
Tetrachloroethene	ND	10.0	10.0	100	10.0	10.4	104	4	45-150	30
Toluene	ND	10.0	10.1	101	10.0	9.94	99	1	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.96	100	10.0	10.2	102	3	60-140	30
Trichloroethene	ND	10.0	10.1	101	10.0	10.2	102	1	70-125	30
Vinyl Chloride	ND	10.0	9.95	99	10.0	7.83	78	24	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.9	109	10.0	10.8	108	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.0	110	10.0	10.6	106	4	75-130	30
Dichlorodifluoromethane	ND	10.0	10.5	105	10.0	8.33	83	23	30-155	30
Isopropylbenzene	ND	10.0	11.0	110	10.0	11.1	111	0	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.67	97	10.0	9.25	92	70-120
4-Bromofluorobenzene	10.0	11.0	110	10.0	10.9	109	75-120
Toluene-d8	10.0	9.94	99	10.0	9.96	100	85-120
Dibromofluoromethane	10.0	9.82	98	10.0	9.68	97	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 22:42
Sample ID:	MBLK2W	Date Analyzed:	01/05/11 22:42
Lab Samp ID:	V001A04B	Dilution Factor:	1
Lab File ID:	RAV071	Matrix :	WATER
Ext Btch ID:	V001A04	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.25J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.85	10.00	98.5	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V001A04B	V001A04L	V001A04C		
LAB FILE ID:	RAV071	RAV068	RAV069		
DATE EXTRACTED:	01/05/1122:42	01/05/1121:06	01/05/1121:40	DATE COLLECTED:	NA
DATE ANALYZED:	01/05/1122:42	01/05/1121:06	01/05/1121:40	DATE RECEIVED:	01/05/11
PREP. BATCH:	V001A04	V001A04	V001A04		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.85	99	10.0	10.1	101	3	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.1	101	10.0	9.99	100	1	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.3	103	10.0	10.3	103	1	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	10.6	106	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.65	96	10.0	9.82	98	2	70-130	30
1,2-Dichloroethane	ND	10.0	10.1	101	10.0	9.95	99	2	70-130	30
2-Butanone	ND	50.0	48.4	97	50.0	51.5	103	6	30-150	30
2-Hexanone	ND	50.0	48.5	97	50.0	50.0	100	3	55-130	30
4-Methyl-2-Pentanone	ND	50.0	48.2	96	50.0	48.2	96	0	60-135	30
Benzene	ND	10.0	10.3	103	10.0	10.1	101	2	80-120	30
Bromodichloromethane	ND	10.0	10.2	102	10.0	9.96	100	2	75-120	30
Bromoform	ND	10.0	10.3	103	10.0	10.2	102	1	70-130	30
Carbon Disulfide	0.247J	10.0	8.43	84	10.0	8.71	87	3	35-160	30
Carbon Tetrachloride	ND	10.0	9.67	97	10.0	9.46	95	2	65-140	30
Chlorobenzene	ND	10.0	10.5	105	10.0	10.4	104	1	80-120	30
Chloroethane	ND	10.0	9.71	97	10.0	10.0	100	3	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	10.3	103	0	65-135	30
Chloromethane	ND	10.0	10.1	101	10.0	10.8	108	7	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.2	102	10.0	10.5	105	3	70-125	30
Dibromochloromethane	ND	10.0	10.1	101	10.0	9.99	100	1	60-135	30
Ethylbenzene	ND	10.0	10.3	103	10.0	10.3	103	0	75-125	30
m/p-Xylenes	ND	20.0	20.6	103	20.0	20.6	103	0	75-130	30
Methylene Chloride	ND	10.0	9.28	93	10.0	9.49	95	2	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.79	98	10.0	10.0	100	2	65-125	30
o-Xylene	ND	10.0	10.6	106	10.0	10.6	106	0	80-120	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.94	99	2	45-150	30
Toluene	ND	10.0	10.4	104	10.0	10.2	102	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.0	100	10.0	10.1	101	1	60-140	30
Trichloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	70-125	30
Vinyl Chloride	ND	10.0	9.57	96	10.0	9.83	98	3	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.9	109	10.0	10.9	109	0	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.0	110	10.0	10.9	109	1	75-130	30
Dichlorodifluoromethane	ND	10.0	8.11	81	10.0	8.42	84	4	30-155	30
Isopropylbenzene	ND	10.0	11.0	110	10.0	10.7	107	3	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.71	97	10.0	9.92	99	70-120
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.5	105	75-120
Toluene-d8	10.0	10.1	101	10.0	9.94	99	85-120
Dibromofluoromethane	10.0	9.74	97	10.0	9.87	99	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 01/06/11
Batch No. : 11A027	Date Extracted: 01/06/11 18:44
Sample ID: MBLK3W	Date Analyzed: 01/06/11 18:44
Lab Samp ID: V001A05B	Dilution Factor: 1
Lab File ID: RAV090	Matrix : WATER
Ext Btch ID: V001A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	V001A05B	V001A05X	V001A05C		
LAB FILE ID:	RAV090	RAV088	RAV087		
DATE EXTRACTED:	01/06/1118:44	01/06/1117:39	01/06/1117:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/06/1118:44	01/06/1117:39	01/06/1117:07	DATE RECEIVED:	01/06/11
PREP. BATCH:	V001A05	V001A05	V001A05		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	10.6	106	4	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.27	93	10.0	9.61	96	4	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.94	99	10.0	9.98	100	0	75-125	30
1,1-Dichloroethane	ND	10.0	10.4	104	10.0	10.9	109	4	70-135	30
1,1-Dichloroethene	ND	10.0	10.7	107	10.0	11.4	114	6	70-130	30
1,2-Dichloroethane	ND	10.0	9.81	98	10.0	10.0	100	2	70-130	30
2-Butanone	ND	50.0	47.4	95	50.0	47.9	96	1	30-150	30
2-Hexanone	ND	50.0	47.4	95	50.0	47.3	95	0	55-130	30
4-Methyl-2-Pentanone	ND	50.0	46.4	93	50.0	46.5	93	0	60-135	30
Benzene	ND	10.0	9.86	99	10.0	10.2	102	3	80-120	30
Bromodichloromethane	ND	10.0	9.45	94	10.0	9.64	96	2	75-120	30
Bromoform	ND	10.0	9.57	96	10.0	9.98	100	4	70-130	30
Carbon Disulfide	ND	10.0	8.89	89	10.0	10.7	107	19	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	10.4	104	3	65-140	30
Chlorobenzene	ND	10.0	10.0	100	10.0	10.4	104	4	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.2	112	7	60-135	30
Chloroform	ND	10.0	10.1	101	10.0	10.5	105	4	65-135	30
Chloromethane	ND	10.0	10.9	109	10.0	11.8	118	8	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.42	94	10.0	9.97	100	6	70-125	30
Dibromochloromethane	ND	10.0	9.46	95	10.0	9.74	97	3	60-135	30
Ethylbenzene	ND	10.0	9.82	98	10.0	10.1	101	3	75-125	30
m/p-Xylenes	ND	20.0	19.5	98	20.0	20.1	100	3	75-130	30
Methylene Chloride	ND	10.0	9.18	92	10.0	9.61	96	5	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.65	97	10.0	10.1	101	4	65-125	30
o-Xylene	ND	10.0	9.82	98	10.0	10.1	101	2	80-120	30
Tetrachloroethene	ND	10.0	10.3	103	10.0	10.7	107	4	45-150	30
Toluene	ND	10.0	9.79	98	10.0	10.0	100	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.94	99	10.0	10.5	105	5	60-140	30
Trichloroethene	ND	10.0	9.90	99	10.0	10.4	104	5	70-125	30
Vinyl Chloride	ND	10.0	11.0	110	10.0	11.6	116	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.2	102	10.0	10.5	105	3	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.87	99	10.0	10.4	104	5	75-130	30
Dichlorodifluoromethane	ND	10.0	11.1	111	10.0	11.6	116	4	30-155	30
Isopropylbenzene	ND	10.0	10.1	101	10.0	10.7	107	5	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.5	105	70-120
4-Bromofluorobenzene	10.0	10.6	106	10.0	10.6	106	75-120
Toluene-d8	10.0	10.5	105	10.0	10.5	105	85-120
Dibromofluoromethane	10.0	9.87	99	10.0	10.3	103	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	01/07/11
Batch No.	: 11A027	Date Extracted:	01/07/11 07:20
Sample ID:	MBLK4W	Date Analyzed:	01/07/11 07:20
Lab Samp ID:	V001A06B	Dilution Factor:	1
Lab File ID:	RAV113	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.0	10.00	100	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.0	10.00	100	85-120
DIBROMOFLUOROMETHANE	9.98	10.00	99.8	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK4W				
LAB SAMP ID:	V001A06B	V001A06L	V001A06C		
LAB FILE ID:	RAV113	RAV110	RAV111		
DATE EXTRACTED:	01/07/1107:20	01/07/1105:41	01/07/1106:14	DATE COLLECTED:	NA
DATE ANALYZED:	01/07/1107:20	01/07/1105:41	01/07/1106:14	DATE RECEIVED:	01/07/11
PREP. BATCH:	V001A06	V001A06	V001A06		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.29	93	10.0	10.4	104	11	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	8.67	87	10.0	10.0	100	15	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.60	96	10.0	10.5	105	9	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	11.3	113	9	70-135	30
1,1-Dichloroethene	ND	10.0	9.61	96	10.0	10.7	107	11	70-130	30
1,2-Dichloroethane	ND	10.0	9.72	97	10.0	10.7	107	10	70-130	30
2-Butanone	ND	50.0	46.7	93	50.0	53.2	106	13	30-150	30
2-Hexanone	ND	50.0	45.5	91	50.0	51.6	103	13	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.2	90	50.0	51.2	102	13	60-135	30
Benzene	ND	10.0	9.56	96	10.0	10.6	106	10	80-120	30
Bromodichloromethane	ND	10.0	9.28	93	10.0	10.2	102	9	75-120	30
Bromoform	ND	10.0	9.40	94	10.0	10.8	108	13	70-130	30
Carbon Disulfide	ND	10.0	8.70	87	10.0	10.2	102	16	35-160	30
Carbon Tetrachloride	ND	10.0	8.57	86	10.0	9.73	97	13	65-140	30
Chlorobenzene	ND	10.0	9.77	98	10.0	10.8	108	10	80-120	30
Chloroethane	ND	10.0	9.70	97	10.0	11.1	111	14	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	11.2	112	9	65-135	30
Chloromethane	ND	10.0	10.2	102	10.0	11.5	115	12	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.44	94	10.0	10.3	103	9	70-125	30
Dibromochloromethane	ND	10.0	9.27	93	10.0	10.2	102	9	60-135	30
Ethylbenzene	ND	10.0	9.29	93	10.0	10.2	102	9	75-125	30
m/p-Xylenes	ND	20.0	18.7	93	20.0	20.3	102	8	75-130	30
Methylene Chloride	ND	10.0	9.25	93	10.0	10.3	103	11	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.46	95	10.0	10.4	104	10	65-125	30
o-Xylene	ND	10.0	9.46	95	10.0	10.4	104	9	80-120	30
Tetrachloroethene	ND	10.0	9.10	91	10.0	10.0	100	10	45-150	30
Toluene	ND	10.0	9.38	94	10.0	10.3	103	10	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.67	97	10.0	10.7	107	10	60-140	30
Trichloroethene	ND	10.0	9.91	99	10.0	10.9	109	9	70-125	30
Vinyl Chloride	ND	10.0	9.33	93	10.0	10.8	108	15	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.73	97	10.0	11.0	110	12	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.35	94	10.0	10.8	108	14	75-130	30
Dichlorodifluoromethane	ND	10.0	7.91	79	10.0	8.84	88	11	30-155	30
Isopropylbenzene	ND	10.0	9.53	95	10.0	11.0	110	14	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	10.7	107	70-120
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.9	109	75-120
Toluene-d8	10.0	10.4	104	10.0	10.5	105	85-120
Dibromofluoromethane	10.0	10.1	101	10.0	10.3	103	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	01/11/11
Batch No.	: 11A027	Date Extracted:	01/11/11 13:12
Sample ID:	MBLK5W	Date Analyzed:	01/11/11 13:12
Lab Samp ID:	V001A12B	Dilution Factor:	1
Lab File ID:	RAV209	Matrix	: WATER
Ext Btch ID:	V001A12	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.80	10.00	98.0	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.73	10.00	97.3	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK5W				
LAB SAMP ID:	V001A12B	V001A12L	V001A12C		
LAB FILE ID:	RAV209	RAV206	RAV207		
DATE EXTRACTED:	01/11/1113:12	01/11/1111:33	01/11/1112:05	DATE COLLECTED:	NA
DATE ANALYZED:	01/11/1113:12	01/11/1111:33	01/11/1112:05	DATE RECEIVED:	01/11/11
PREP. BATCH:	V001A12	V001A12	V001A12		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.4	104	10.0	10.4	104	0	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.2	102	10.0	10.2	102	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.5	105	10.0	10.5	105	0	75-125	30
1,1-Dichloroethane	ND	10.0	10.5	105	10.0	10.8	108	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.97	100	10.0	9.88	99	1	70-130	30
1,2-Dichloroethane	ND	10.0	10.2	102	10.0	10.4	104	2	70-130	30
2-Butanone	ND	50.0	50.3	101	50.0	50.7	101	1	30-150	30
2-Hexanone	ND	50.0	49.5	99	50.0	49.4	99	0	55-130	30
4-Methyl-2-Pentanone	ND	50.0	49.4	99	50.0	49.9	100	1	60-135	30
Benzene	ND	10.0	10.5	105	10.0	10.6	106	2	80-120	30
Bromodichloromethane	ND	10.0	10.2	102	10.0	10.4	104	2	75-120	30
Bromoform	ND	10.0	10.5	105	10.0	10.4	104	1	70-130	30
Carbon Disulfide	ND	10.0	9.66	97	10.0	10.2	102	5	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	9.88	99	2	65-140	30
Chlorobenzene	ND	10.0	10.8	108	10.0	10.7	107	0	80-120	30
Chloroethane	ND	10.0	10.1	101	10.0	10.2	102	1	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	10.4	104	1	65-135	30
Chloromethane	ND	10.0	10.7	107	10.0	10.5	105	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.4	104	10.0	10.5	105	0	70-125	30
Dibromochloromethane	ND	10.0	10.1	101	10.0	10.3	103	2	60-135	30
Ethylbenzene	ND	10.0	10.5	105	10.0	10.7	107	2	75-125	30
m/p-Xylenes	ND	20.0	21.0	105	20.0	21.1	105	0	75-130	30
Methylene Chloride	ND	10.0	9.38	94	10.0	9.45	95	1	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.54	95	10.0	9.75	98	2	65-125	30
o-Xylene	ND	10.0	10.7	107	10.0	10.9	109	1	80-120	30
Tetrachloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	45-150	30
Toluene	ND	10.0	10.6	106	10.0	10.6	106	0	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.1	101	10.0	10.3	103	2	60-140	30
Trichloroethene	ND	10.0	10.4	104	10.0	10.3	103	1	70-125	30
Vinyl Chloride	ND	10.0	10.5	105	10.0	10.2	102	3	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	11.1	111	10.0	10.9	109	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.1	111	10.0	11.0	110	1	75-130	30
Dichlorodifluoromethane	ND	10.0	10.3	103	10.0	10.2	102	1	30-155	30
Isopropylbenzene	ND	10.0	11.2	112	10.0	11.0	110	1	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.49	95	10.0	9.92	99	70-120
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.6	106	75-120
Toluene-d8	10.0	9.66	97	10.0	9.93	99	85-120
Dibromofluoromethane	10.0	9.61	96	10.0	9.92	99	85-115

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	SSI-GW-008				
LAB SAMP ID:	A027-08N	A027-08G	A027-08H		
LAB FILE ID:	RAV210	RAV211	RAV212		
DATE EXTRACTED:	01/11/1113:43	01/11/1114:16	01/11/1114:49	DATE COLLECTED:	01/03/11
DATE ANALYZED:	01/11/1113:43	01/11/1114:16	01/11/1114:49	DATE RECEIVED:	01/05/11
PREP. BATCH:	VO01A12	VO01A12	VO01A12		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.8	108	10.0	10.6	106	2	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.3	103	10.0	10.3	103	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.4	104	10.0	11.0	110	5	75-125	30
1,1-Dichloroethane	ND	10.0	10.8	108	10.0	10.7	107	1	70-135	30
1,1-Dichloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	70-130	30
1,2-Dichloroethane	ND	10.0	10.2	102	10.0	10.6	106	3	70-130	30
2-Butanone	ND	50.0	50.4	101	50.0	53.1	106	5	30-150	30
2-Hexanone	ND	50.0	48.8	98	50.0	52.1	104	7	55-130	30
4-Methyl-2-Pentanone	ND	50.0	46.9	94	50.0	49.4	99	5	60-135	30
Benzene	ND	10.0	10.6	106	10.0	10.6	106	0	80-120	30
Bromodichloromethane	ND	10.0	10.4	104	10.0	10.6	106	2	75-120	30
Bromoform	ND	10.0	10.4	104	10.0	10.5	105	1	70-130	30
Carbon Disulfide	ND	10.0	8.59	86	10.0	9.95	99	15	35-160	30
Carbon Tetrachloride	ND	10.0	10.5	105	10.0	10.4	104	1	65-140	30
Chlorobenzene	ND	10.0	10.9	109	10.0	10.9	109	1	80-120	30
Chloroethane	ND	10.0	11.6	116	10.0	10.9	109	6	60-135	30
Chloroform	ND	10.0	10.5	105	10.0	10.6	106	0	65-135	30
Chloromethane	ND	10.0	11.5	115	10.0	10.9	109	5	40-125	30
cis-1,2-Dichloroethene	0.920J	10.0	11.3	104	10.0	11.6	107	2	70-125	30
Dibromochloromethane	ND	10.0	10.2	102	10.0	10.5	105	3	60-135	30
Ethylbenzene	ND	10.0	10.8	108	10.0	10.7	107	1	75-125	30
m/p-Xylenes	ND	20.0	21.7	109	20.0	21.6	108	1	75-130	30
Methylene Chloride	ND	10.0	9.64	96	10.0	9.72	97	1	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.52	95	10.0	9.93	99	4	65-125	30
o-Xylene	ND	10.0	10.9	109	10.0	11.0	110	1	80-120	30
Tetrachloroethene	ND	10.0	10.8	108	10.0	10.7	107	1	45-150	30
Toluene	ND	10.0	10.8	108	10.0	10.8	108	1	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.4	104	10.0	10.5	105	1	60-140	30
Trichloroethene	3.58	10.0	14.1	105	10.0	14.4	108	2	70-125	30
Vinyl Chloride	ND	10.0	11.2	112	10.0	10.6	106	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	11.1	111	10.0	10.9	109	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.3	113	10.0	11.0	110	3	75-130	30
Dichlorodifluoromethane	ND	10.0	11.7	117	10.0	11.0	110	6	30-155	30
Isopropylbenzene	ND	10.0	11.3	113	10.0	11.0	110	2	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.51	95	10.0	9.64	96	70-120
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.3	103	75-120
Toluene-d8	10.0	9.94	99	10.0	9.82	98	85-120
Dibromofluoromethane	10.0	9.72	97	10.0	9.83	98	85-115

INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RLV327
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 12/11/10
BFB Injection Time : 09:15
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.73
75	30.0 - 60.0% of mass 95	43.26
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.83
175	5.0 - 9.0% of mass 174	5.60(7.5)1
176	95.0 - 101.0% of mass 174	73.56(98.3)1
177	5.0 - 9.0% of mass 176	4.84(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V001L111	RLV328	12/11/10	09:56
2	VSTD0.5	V001L112	RLV329	12/11/10	10:28
3	VSTD01	V001L113	RLV330	12/11/10	11:02
4	VSTD02	V001L114	RLV331	12/11/10	11:34
5	VSTD05	V001L115	RLV332	12/11/10	12:08
6	VSTD010	V001L116	RLV333	12/11/10	12:40
7	VSTD020	V001L117	RLV334	12/11/10	13:12
8	VSTD030	V001L118	RLV335	12/11/10	13:47
9	VSTD050	V001L1110	RLV337	12/11/10	14:51
10	VSTD100	V001L1111	RLV338	12/11/10	15:24
11	VSTD010	IV001L1101	RLV341	12/11/10	17:01

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	0.193	0.174	0.188	0.178	0.173	0.190	0.185	0.168	0.159	0.142	0.175	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.413	0.363	0.343	0.326	0.366	0.362	0.330	0.312	0.264	0.342	12.16	2.4787
	5	Vinyl chloride	0.356	0.307	0.320	0.288	0.268	0.277	0.227	------	------	------	0.292	14.06	2.6504
	6	Bromomethane	0.263	0.204	0.228	0.219	0.208	0.236	0.230	0.213	0.201	0.170	0.217	11.37	3.1701
	7	Chloroethane	0.271	0.249	0.235	0.221	0.218	0.241	0.235	0.218	0.208	0.169	0.227	11.96	3.2515
	8	Dichlorofluoromethane	0.646	0.578	0.618	0.617	0.612	0.602	0.581	0.593	0.554	0.459	0.586	8.78	3.3358
	9	Trichlorofluoromethane	0.383	0.333	0.344	0.330	0.326	0.350	0.354	0.333	0.309	0.263	0.332	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.016	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.162	0.159	0.173	0.169	0.167	0.168	0.158	0.164	0.147	0.126	0.159	8.56	4.1955
5	13	Acetone	------	------	0.041	0.043	0.038	0.040	0.041	0.042	0.037	0.034	0.039	7.47	4.2295
	14	1,1-Dichloroethene	0.501	0.451	0.481	0.494	0.474	0.472	0.459	0.471	0.434	0.366	0.460	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	0.014	0.014	0.015	0.014	0.016	0.016	0.014	0.013	0.015	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.494	0.458	0.495	0.509	0.504	0.508	0.493	0.507	0.473	0.408	0.485	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	0.559	0.591	0.525	0.507	0.464	0.465	0.449	0.453	0.418	0.358	0.479	14.28	5.0418
	20	Carbon disulfide	------	0.652	1.142	1.092	1.138	1.339	1.222	1.227	1.160	------	1.122	18.20	5.0729
5	21	Acrylonitrile	------	------	0.054	0.054	0.051	0.053	0.054	0.056	0.050	0.046	0.052	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	0.448	0.429	0.469	0.483	0.470	0.471	0.472	0.480	0.439	0.386	0.455	6.60	5.2756
	23	trans-1,2-Dichloroethene	0.545	0.498	0.529	0.541	0.541	0.526	0.525	0.536	0.497	0.421	0.516	7.26	5.4443
	24	Isopropyl ether (DIPE)	1.261	1.252	1.297	1.324	1.305	1.313	1.290	1.337	1.209	1.065	1.265	6.33	5.8970
	25	Vinyl acetate	------	0.509	0.497	0.448	0.432	0.488	0.505	0.486	0.437	0.381	0.465	9.23	6.0446
	26	1,1-Dichloroethane	0.649	0.608	0.660	0.665	0.669	0.650	0.633	0.657	0.609	0.518	0.632	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	0.747	0.733	0.786	0.815	0.781	0.783	0.777	0.781	0.709	0.621	0.753	7.38	6.4859
5	29	2-Butanone	0.078	0.070	0.077	0.075	0.071	0.073	0.078	0.078	0.072	0.066	0.074	5.70	6.6531
	30	2,2-Dichloropropane	0.436	0.391	0.419	0.413	0.402	0.384	0.372	0.377	0.333	0.278	0.381	12.09	6.8573
	31	cis-1,2-Dichloroethene	0.365	0.368	0.383	0.387	0.384	0.386	0.375	0.388	0.360	0.308	0.370	6.52	6.9165
	32	Chloroform	0.564	0.526	0.554	0.572	0.564	0.556	0.554	0.569	0.531	0.463	0.545	5.99	7.1444
	33	Bromochloromethane	0.268	0.256	0.282	0.288	0.284	0.287	0.281	0.292	0.266	0.232	0.274	6.81	7.3885
	34	Dibromofluoromethane	------	------	0.301	0.262	0.308	0.319	0.325	0.325	0.293	0.265	0.300	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	0.408	0.386	0.416	0.413	0.415	0.402	0.399	0.410	0.374	0.327	0.395	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	0.102	0.105	0.116	0.120	0.120	0.117	0.120	0.120	0.106	0.090	0.112	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	0.241	0.206	0.237	0.246	0.256	0.252	0.228	0.208	0.234	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	0.221	0.197	0.201	0.204	0.202	0.193	0.183	0.192	0.176	0.150	0.192	9.97	7.9774
	43	Carbon tetrachloride	0.417	0.370	0.389	0.399	0.400	0.384	0.366	0.388	0.359	0.310	0.378	7.86	8.1342
	44	1,2-Dichloroethane	0.329	0.314	0.350	0.358	0.352	0.348	0.339	0.353	0.329	0.281	0.335	6.97	8.3577
	45	Benzene	1.688	1.530	1.642	1.642	1.615	1.592	1.532	1.590	1.496	1.242	1.557	8.06	8.3872
	46	Trichloroethene	0.410	0.394	0.436	0.434	0.432	0.433	0.410	0.431	0.407	0.341	0.413	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	0.432	0.415	0.441	0.460	0.453	0.442	0.431	0.453	0.414	0.356	0.430	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	9.05	10.0511
	50	Bromodichloromethane	0.462	0.434	0.458	0.481	0.481	0.480	0.462	0.492	0.455	0.393	0.460	6.30	9.9986
	51	Dibromomethane	0.156	0.159	0.167	0.175	0.172	0.171	0.165	0.175	0.162	0.141	0.164	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	0.105	0.103	0.107	0.108	0.111	0.115	0.106	0.097	0.106	4.84	10.4883
	53	4-Methyl-2-pentanone	------	------	0.225	0.227	0.218	0.221	0.228	0.235	0.215	0.191	0.220	6.01	10.5530
	54	cis-1,3-Dichloropropene	0.593	0.551	0.598	0.605	0.603	0.605	0.579	0.617	0.567	0.491	0.581	6.39	10.8938
	55	Toluene-d8	------	------	1.355	1.148	1.343	1.365	1.324	1.350	1.232	------	1.303	6.27	11.3168
	56	Toluene	1.746	1.584	1.691	1.677	1.670	1.623	1.549	1.609	1.509	1.246	1.591	8.81	11.4516
	57	Ethyl methacrylate	------	0.289	0.317	0.323	0.320	0.328	0.317	0.332	0.302	0.262	0.310	7.22	11.7379
	58	trans-1,3-Dichloropropene	0.420	0.365	0.415	0.431	0.431	0.426	0.415	0.441	0.403	0.346	0.409	7.44	11.7504

SG 12/16/10

5	59	2-Hexanone	------	------	0.142	0.141	0.136	0.138	0.142	0.148	0.132	0.117	0.137	6.85	12.0493
	60	1,1,2-Trichloroethane	0.219	0.212	0.227	0.234	0.231	0.229	0.222	0.232	0.209	0.181	0.220	7.27	12.0286
	61	1,3-Dichloropropane	0.432	0.415	0.434	0.459	0.455	0.448	0.437	0.458	0.416	0.361	0.431	6.84	12.4740
	62	Tetrachloroethene	0.345	0.302	0.323	0.331	0.329	0.317	0.304	0.315	0.296	0.245	0.311	8.80	12.6027
	63	Dibromochloromethane	0.253	0.254	0.268	0.279	0.281	0.286	0.280	0.296	0.272	0.236	0.271	6.68	12.9578
	64	1,2-Dibromoethane	0.213	0.200	0.217	0.226	0.226	0.225	0.220	0.233	0.213	0.185	0.216	6.57	13.3247
	65	1-Chlorohexane	0.726	0.643	0.708	0.693	0.698	0.673	0.629	0.653	0.597	0.491	0.651	10.53	13.6074
	66	Chlorobenzene	0.969	0.923	0.978	1.014	1.006	0.993	0.959	0.994	0.911	0.774	0.952	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	0.333	0.285	0.318	0.316	0.322	0.320	0.309	0.324	0.292	0.246	0.307	8.36	14.1681
	68	Ethylbenzene	1.906	1.740	1.888	1.850	1.892	1.837	1.743	1.827	1.636	------	1.813	4.94	14.1840
2	69	m-Xylene & p-Xylene	1.370	1.293	1.375	1.397	1.380	1.360	1.272	1.326	1.215	------	1.332	4.55	14.3254
	70	o-Xylene	1.357	1.278	1.354	1.396	1.368	1.368	1.273	1.355	1.229	1.028	1.301	8.43	15.1491
	71	Styrene	0.986	0.891	0.980	1.028	1.025	1.054	0.998	1.052	0.970	0.817	0.980	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	4.732	4.356	4.695	4.727	4.630	4.510	4.270	4.517	4.103	3.382	4.392	9.38	15.8342
	74	Bromoform	0.321	0.322	0.370	0.373	0.391	0.391	0.391	0.420	0.383	0.338	0.370	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	0.739	0.720	0.738	0.753	0.738	0.724	0.711	0.757	0.685	0.597	0.716	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	1.053	1.178	1.200	1.191	1.219	1.116	0.981	1.134	7.80	16.3184
	77	1,2,3-Trichloropropane	0.207	0.230	0.194	0.184	0.176	0.172	0.165	0.178	0.158	0.139	0.180	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	0.186	0.185	0.189	0.192	0.190	0.203	0.180	0.154	0.185	7.64	16.5844
	79	n-Propylbenzene	6.204	5.820	6.195	6.202	6.164	5.995	5.718	5.999	5.538	4.482	5.832	9.03	16.6110
	80	Bromobenzene	0.908	0.890	0.928	0.963	0.948	0.942	0.918	0.986	0.911	0.788	0.918	5.85	16.6998
	81	1,3,5-Trimethylbenzene	3.645	3.404	3.739	3.703	3.627	3.548	3.415	3.580	3.261	2.643	3.456	9.31	16.9232
	82	2-Chlorotoluene	3.815	3.635	3.729	3.719	3.598	3.513	3.397	3.781	3.484	2.824	3.549	8.13	16.9572
	83	4-Chlorotoluene	3.230	3.017	3.196	3.224	3.220	3.238	3.115	3.091	2.839	2.389	3.056	8.71	17.0504
	84	tert-Butylbenzene	0.844	0.786	0.828	0.839	0.829	0.802	0.767	0.809	0.733	0.614	0.785	8.82	17.6201
	85	1,2,4-Trimethylbenzene	3.533	3.347	3.577	3.601	3.578	3.567	3.370	3.555	3.294	2.727	3.415	7.81	17.6941
	86	sec-Butylbenzene	5.123	4.786	5.225	5.202	5.174	4.913	4.651	4.871	4.491	3.709	4.814	9.57	18.0196
	87	p-Isopropyltoluene	3.979	3.611	3.929	3.891	3.853	3.819	3.587	3.763	3.474	2.843	3.675	9.11	18.2563
	88	1,3-Dichlorobenzene	1.946	1.796	1.874	1.924	1.942	1.912	1.854	1.947	1.811	1.539	1.854	6.67	18.4161
	89	1,4-Dichlorobenzene	1.830	1.738	1.833	1.848	1.859	1.843	1.789	1.861	1.744	1.473	1.782	6.58	18.5863
	90	n-Butylbenzene	4.300	3.827	4.137	4.049	4.052	3.985	3.791	3.927	3.557	2.906	3.853	10.13	18.9059
	91	1,2-Dichlorobenzene	1.510	1.494	1.568	1.597	1.566	1.560	1.496	1.571	1.451	1.251	1.506	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	0.096	0.091	0.082	0.089	0.092	0.091	0.096	0.087	0.081	0.089	5.97	20.1931
	93	1,2,4-Trichlorobenzene	0.993	0.868	0.958	0.942	0.949	0.933	0.919	0.941	0.881	0.781	0.916	6.51	21.3340
	94	Hexachlorobutadiene	0.611	0.586	0.633	0.604	0.620	0.606	0.570	0.594	0.548	0.478	0.585	7.65	21.5145
	95	Naphthalene	1.080	0.945	1.020	1.018	1.045	1.048	1.105	1.177	1.121	1.049	1.061	6.04	21.7024
	96	1,2,3-Trichlorobenzene	0.837	0.754	0.749	0.743	0.747	0.732	0.717	0.736	0.690	0.623	0.733	7.34	22.0382

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 18.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
20	Carbon disulfide	-0.01823	1.21064	0.9987

Su
12/16/10

1050

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :TO01
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :VO01L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	AvDRec	% RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	110	99	107	102	99	109	106	96	91	81	6.7	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	121	106	100	95	107	106	96	91	77	8.9	12.16	2.4787
	5	Vinyl chloride	122	105	110	99	92	95	78	------	------	------	10.5	14.06	2.6504
	6	Bromomethane	121	94	105	101	96	109	106	98	93	78	8.3	11.37	3.1701
	7	Chloroethane	119	110	104	97	96	106	104	96	92	74	8.7	11.96	3.2515
	8	Dichlorofluoromethane	110	99	105	105	104	103	99	101	95	78	5.9	8.78	3.3358
	9	Trichlorofluoromethane	115	100	104	99	98	105	107	100	93	79	6.2	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	112	106	106	100	100	94	87	6.3	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	102	100	109	106	105	106	99	103	92	79	6	8.56	4.1955
5	13	Acetone	------	------	105	110	97	103	105	108	95	87	6.4	7.47	4.2295
	14	1,1-Dichloroethene	109	98	105	107	103	103	100	102	94	80	5.7	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	93	93	100	93	107	107	93	87	6.7	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	102	94	102	105	104	105	102	105	98	84	4.8	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	117	123	110	106	97	97	94	95	87	75	11.1	14.28	5.0418
	20	Carbon disulfide	------	84	109	98	97	112	102	102	96	------	6.2	8.7	5.0729
5	21	Acrylonitrile	------	------	104	104	98	102	104	108	96	88	4.8	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	98	94	103	106	103	104	104	105	96	85	5.1	6.60	5.2756
	23	trans-1,2-Dichloroethene	106	97	103	105	105	102	102	104	96	82	5.1	7.26	5.4443
	24	Isopropyl ether (DIPE)	100	99	103	105	103	104	102	106	96	84	4.3	6.33	5.8970
	25	Vinyl acetate	------	109	107	96	93	105	109	105	94	82	7.7	9.23	6.0446
	26	1,1-Dichloroethane	103	96	104	105	106	103	100	104	96	82	5.1	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	99	97	104	108	104	104	103	104	94	82	5.4	7.38	6.4859
5	29	2-Butanone	105	95	104	101	96	99	105	105	97	89	4.6	5.70	6.6531
	30	2,2-Dichloropropane	114	103	110	108	106	101	98	99	87	73	8.5	12.09	6.8573
	31	cis-1,2-Dichloroethene	99	99	104	105	104	104	101	105	97	83	4.4	6.52	6.9165
	32	Chloroform	103	97	102	105	103	102	102	104	97	85	4.3	5.99	7.1444
	33	Bromochloromethane	98	93	103	105	104	105	103	107	97	85	5.3	6.81	7.3885
	34	Dibromofluoromethane	------	------	100	87	103	106	108	108	98	88	6.6	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	103	98	105	105	105	102	101	104	95	83	5	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	91	94	104	107	107	104	107	107	95	80	7.7	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	103	88	101	105	109	108	97	89	6.5	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	115	103	105	106	105	101	95	100	92	78	6.9	9.97	7.9774
	43	Carbon tetrachloride	110	98	103	106	106	102	97	103	95	82	5.7	7.86	8.1342
	44	1,2-Dichloroethane	98	94	104	107	105	104	101	105	98	84	5.3	6.97	8.3577
	45	Benzene	108	98	105	105	104	102	98	102	96	80	5.5	8.06	8.3872
	46	Trichloroethene	99	95	106	105	105	105	99	104	99	83	4.9	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	100	97	103	107	105	103	100	105	96	83	4.8	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	100	100	100	100	200	100	100	14.3	9.05	10.0511
	50	Bromodichloromethane	100	94	100	105	105	104	100	107	99	85	4.3	6.30	9.9986
	51	Dibromomethane	95	97	102	107	105	104	101	107	99	86	4.8	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	99	97	101	102	105	108	100	92	3.5	4.84	10.4883
	53	4-Methyl-2-pentanone	------	------	102	103	99	100	104	107	98	87	4.1	6.01	10.5530
	54	cis-1,3-Dichloropropene	102	95	103	104	104	104	100	106	98	85	4.7	6.39	10.8938
	55	Toluene-d8	------	------	104	88	103	105	102	104	95	------	4.9	6.27	11.3168
	56	Toluene	110	100	106	105	105	102	97	101	95	78	5.9	8.81	11.4516
	57	Ethyl methacrylate	------	93	102	104	103	106	102	107	97	85	5.5	7.22	11.7379
	58	trans-1,3-Dichloropropene	103	89	101	105	105	104	101	108	99	85	5.6	7.44	11.7504

SG
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5 59	2-Hexanone	------	------	104	103	99	101	104	108	96	85	4.7	6.85	12.0493
60	1,1,2-Trichloroethane	100	96	103	106	105	104	101	105	95	82	5.2	7.27	12.0286
61	1,3-Dichloropropane	100	96	101	106	106	104	101	106	97	84	4.8	6.84	12.4740
62	Tetrachloroethene	111	97	104	106	106	102	98	101	95	79	6.1	8.80	12.6027
63	Dibromochloromethane	93	94	99	103	104	106	103	109	100	87	5.2	6.68	12.9578
64	1,2-Dibromoethane	99	93	100	105	105	104	102	108	99	86	4.8	6.57	13.3247
65	1-Chlorohexane	112	99	109	106	107	103	97	100	92	75	7.5	10.53	13.6074
66	Chlorobenzene	102	97	103	107	106	104	101	104	96	81	5.2	7.47	14.0897
67	1,1,1,2-Tetrachloroethane	108	93	104	103	105	104	101	106	95	80	6.2	8.36	14.1681
68	Ethylbenzene	105	96	104	102	104	101	96	101	90	------	3.9	4.94	14.1840
2 69	m-Xylene & p-Xylene	103	97	103	105	104	102	95	100	91	------	3.7	4.55	14.3254
70	o-Xylene	104	98	104	107	105	105	98	104	94	79	6.1	8.43	15.1491
71	Styrene	101	91	100	105	105	108	102	107	99	83	5.4	7.59	15.2172
72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
73	Isopropylbenzene	108	99	107	108	105	103	97	103	93	77	6.6	9.38	15.8342
74	Bromoform	87	87	100	101	106	106	106	114	104	91	7	8.94	15.8682
75	1,1,2,2-Tetrachloroethane	103	101	103	105	103	101	99	106	96	83	4.4	6.57	16.1597
76	4-Bromofluorobenzene	------	------	------	93	104	106	105	107	98	87	6.3	7.80	16.3184
77	1,2,3-Trichloropropane	115	128	108	102	98	96	92	99	88	77	10.4	14.17	16.4512
78	trans-1,4-Dichloro-2-butene	------	------	101	100	102	104	103	110	97	83	4.8	7.64	16.5844
79	n-Propylbenzene	106	100	106	106	106	103	98	103	95	77	6.1	9.03	16.6110
80	Bromobenzene	99	97	101	105	103	103	100	107	99	86	3.8	5.85	16.6998
81	1,3,5-Trimethylbenzene	105	98	108	107	105	103	99	104	94	76	6.4	9.31	16.9232
82	2-Chlorotoluene	107	102	105	105	101	99	96	107	98	80	5.5	8.13	16.9572
83	4-Chlorotoluene	106	99	105	105	105	106	102	101	93	78	6	8.71	17.0504
84	tert-Butylbenzene	108	100	105	107	106	102	98	103	93	78	6.2	8.82	17.6201
85	1,2,4-Trimethylbenzene	103	98	105	105	105	104	99	104	96	80	5.4	7.81	17.6941
86	sec-Butylbenzene	106	99	109	108	107	102	97	101	93	77	6.7	9.57	18.0196
87	p-Isopropyltoluene	108	98	107	106	105	104	98	102	95	77	6.4	9.11	18.2563
88	1,3-Dichlorobenzene	105	97	101	104	105	103	100	105	98	83	4.5	6.67	18.4161
89	1,4-Dichlorobenzene	103	98	103	104	104	103	100	104	98	83	4.4	6.58	18.5863
90	n-Butylbenzene	112	99	107	105	105	103	98	102	92	75	6.9	10.13	18.9059
91	1,2-Dichlorobenzene	100	99	104	106	104	104	99	104	96	83	4.4	6.68	19.1441
92	1,2-Dibromo-3-chloropropane	------	108	102	92	100	103	102	108	98	91	4.7	5.97	20.1931
93	1,2,4-Trichlorobenzene	108	95	105	103	104	102	100	103	96	85	4.8	6.51	21.3340
94	Hexachlorobutadiene	104	100	108	103	106	104	97	102	94	82	5.4	7.65	21.5145
95	Naphthalene	102	89	96	96	98	99	104	111	106	99	4.5	6.04	21.7024
96	1,2,3-Trichlorobenzene	114	103	102	101	102	100	98	100	94	85	4.6	7.34	22.0382

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1952

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T001
IC_Beginning DateTime :12/11/10 09:56
Spike Amount :10 PPB
CC/CV File :RLV341
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :12/11/10 15:24
HPChem Method :V001L11
Date_Time :12/11/10 17:01

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1441268	1	1	8.817	8.813	0				
	2	Dichlorodifluoromethane	9.811	-1.9	247380	0.172	0.175	2.218	2.216	9.01				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.420	4.2	513603	0.356	0.342	2.484	2.479	12.16				
	5	Vinyl chloride	8.919	-10.8	375385	0.260	0.292	2.647	2.650	14.06				
	6	Bromomethane	10.831	8.3	338949	0.235	0.217	3.180	3.170	11.37				
	7	Chloroethane	10.651	6.5	347910	0.241	0.227	3.254	3.251	11.96				
	8	Dichlorofluoromethane	10.136	1.4	855719	0.594	0.586	3.343	3.336	8.78				
	9	Trichlorofluoromethane	10.078	0.8	482948	0.335	0.332	3.639	3.632	9.45				
5	10	sec-Propyl alcohol												
5	11	Acrolein	51.451	2.9	119492	0.017	0.016	4.142	4.139	7.57				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.530	-4.7	218750	0.152	0.159	4.201	4.195	8.56				
5	13	Acetone	51.089	2.2	290469	0.040	0.039	4.231	4.229	7.47				
	14	1,1-Dichloroethene	9.961	-0.4	660776	0.458	0.460	4.393	4.395	8.36				
5	15	tert-Butyl alcohol	55.129	10.3	116541	0.016	0.015	4.526	4.535	6.55				
	16	Acetonitrile												
	17	Iodomethane	10.423	4.2	728506	0.505	0.485	4.808	4.814	6.50				
	18	Methyl acetate												
	19	Methylene chloride	9.456	-5.4	652718	0.453	0.479	5.044	5.042	14.28				
	20	Carbon disulfide	10.804	8.0	1858853	1.290	1.122	5.074	5.073	18.20	-0.0182	1.2106		0.9987
5	21	Acrylonitrile	50.918	1.8	383180	0.053	0.052	5.207	5.214	5.64				
	22	tert-Butyl methyl ether (MTBE)	10.408	4.1	682062	0.473	0.455	5.266	5.276	6.60				
	23	trans-1,2-Dichloroethene	10.121	1.2	752336	0.522	0.516	5.444	5.444	7.26				
	24	Isopropyl ether (DIPE)	10.377	3.8	1892189	1.313	1.265	5.888	5.897	6.33				
	25	Vinyl acetate	10.668	6.7	714287	0.496	0.465	6.036	6.045	9.23				
	26	1,1-Dichloroethane	10.193	1.9	928069	0.644	0.632	6.050	6.047	7.19				
5	27	2-Butanol												
	28	tert-Butyl ethyl ether (ETBE)	10.505	5.0	1140580	0.791	0.753	6.479	6.486	7.38				
5	29	2-Butanone	51.518	3.0	548469	0.076	0.074	6.657	6.653	5.70				
	30	2,2-Dichloropropane	8.922	-10.8	489415	0.340	0.381	6.864	6.857	12.09				
	31	cis-1,2-Dichloroethene	10.170	1.7	542952	0.377	0.370	6.923	6.917	6.52				
	32	Chloroform	10.272	2.7	807078	0.560	0.545	7.145	7.144	5.99				
	33	Bromochloromethane	10.525	5.3	415030	0.288	0.274	7.382	7.389	6.81				
	34	Dibromofluoromethane	11.205	12.0	483875	0.336	0.300	7.471	7.468	8.39				
	35	Tetrahydrofuran												
	36	1,1,1-Trichloroethane	9.978	-0.2	568490	0.394	0.395	7.752	7.748	6.94				
	37	Cyclohexane												
5	38	1-Butanol												
	39	tert-Amyl methyl ether (TAME)	10.885	8.8	175207	0.122	0.112	8.166	8.168	9.19				
	40	1,2-Dichloroethane-d4	11.265	12.7	380481	0.264	0.234	8.211	8.217	8.04				
	41	CHLOROBENZENE-D5	10.000	0	1268187	1	1	14.026	14.020	0				
	42	1,1-Dichloropropene	9.512	-4.9	231678	0.183	0.192	7.974	7.977	9.97				
	43	Carbon tetrachloride	9.429	-5.7	452292	0.357	0.378	8.137	8.134	7.86				
	44	1,2-Dichloroethane	10.351	3.5	440019	0.347	0.335	8.359	8.358	6.97				
	45	Benzene	9.992	-0.1	1972794	1.556	1.557	8.388	8.387	8.06				
	46	Trichloroethene	10.051	0.5	526161	0.415	0.413	9.335	9.337	7.10				
	47	Methylcyclohexane												
	48	1,2-Dichloropropane	10.146	1.5	552765	0.436	0.430	9.616	9.624	7.02				
20	49	1,4-Dioxane	210.064	5.0	36160	0.001	0.001	10.060	10.051	9.05				
	50	Bromodichloromethane	10.131	1.3	590694	0.466	0.460	10.001	9.999	6.30				
	51	Dibromomethane	10.150	1.5	211627	0.167	0.164	10.090	10.087	6.40				
5	52	2-Chloroethyl vinyl ether	10.108	1.1	136461	0.108	0.106	10.489	10.488	4.84				
5	53	4-Methyl-2-pentanone	50.616	1.2	1413511	0.223	0.220	10.549	10.553	6.01				
	54	cis-1,3-Dichloropropene	9.981	-0.2	735398	0.580	0.581	10.889	10.894	6.39				
	55	Toluene-d8	10.778	7.8	1780332	1.404	1.303	11.318	11.317	6.27				
	56	Toluene	9.842	-1.6	1985249	1.565	1.591	11.451	11.452	8.81				
	57	Ethyl methacrylate	10.442	4.4	410458	0.324	0.310	11.732	11.738	7.22				
	58	trans-1,3-Dichloropropene	10.202	2.0	529496	0.418	0.409	11.747	11.750	7.44				
5	59	2-Hexanone	50.525	1.0	878349	0.139	0.137	12.043	12.049	6.85				

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	60	1,1,2-Trichloroethane	10.315	3.1	287381	0.227	0.220	12.028	12.029	7.27				
	61	1,3-Dichloropropane	10.316	3.2	564370	0.445	0.431	12.472	12.474	6.84				
	62	Tetrachloroethene	9.721	-2.8	383027	0.302	0.311	12.605	12.603	8.80				
	63	Dibromochloromethane	10.420	4.2	357574	0.282	0.271	12.960	12.958	6.68				
	64	1,2-Dibromoethane	10.304	3.0	281963	0.222	0.216	13.330	13.325	6.57				
	65	1-Chlorohexane	9.529	-4.7	786927	0.621	0.651	13.611	13.607	10.53				
	66	Chlorobenzene	10.157	1.6	1226175	0.967	0.952	14.085	14.090	7.47				
	67	1,1,1,2-Tetrachloroethane	10.304	3.0	400565	0.316	0.307	14.174	14.168	8.36				
	68	Ethylbenzene	9.695	-3.0	2229329	1.758	1.813	14.188	14.184	4.94				
2	69	m-Xylene & p-Xylene	19.649	-1.8	3319552	1.309	1.332	14.321	14.325	4.55				
	70	o-Xylene	10.006	0.1	1650344	1.301	1.301	15.150	15.149	8.43				
	71	Styrene	10.533	5.3	1309154	1.032	0.980	15.224	15.217	7.59				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	456225	1	1	19.101	19.106	0				
	73	Isopropylbenzene	9.833	-1.7	1970393	4.319	4.392	15.831	15.834	9.38				
	74	Bromoform	10.479	4.8	176880	0.388	0.370	15.860	15.868	8.94				
	75	1,1,2,2-Tetrachloroethane	10.086	0.9	329499	0.722	0.716	16.156	16.160	6.57				
	76	4-Bromofluorobenzene	11.186	11.9	578733	1.269	1.134	16.319	16.318	7.80				
	77	1,2,3-Trichloropropane	9.842	-1.6	80909	0.177	0.180	16.452	16.451	14.17				
	78	trans-1,4-Dichloro-2-butene	9.620	-3.8	81130	0.178	0.185	16.585	16.584	7.64				
	79	n-Propylbenzene	9.741	-2.6	2591820	5.681	5.832	16.615	16.611	9.03				
	80	Bromobenzene	10.184	1.8	426714	0.935	0.918	16.704	16.700	5.85				
	81	1,3,5-Trimethylbenzene	9.986	-0.1	1574680	3.452	3.456	16.926	16.923	9.31				
	82	2-Chlorotoluene	9.790	-2.1	1585311	3.475	3.549	16.955	16.957	8.13				
	83	4-Chlorotoluene	10.102	1.0	1408398	3.087	3.056	17.044	17.050	8.71				
	84	tert-Butylbenzene	9.877	-1.2	353763	0.775	0.785	17.621	17.620	8.82				
	85	1,2,4-Trimethylbenzene	10.012	0.1	1559834	3.419	3.415	17.695	17.694	7.81				
	86	sec-Butylbenzene	9.743	-2.6	2139958	4.691	4.814	18.021	18.020	9.57				
	87	p-Isopropyltoluene	9.794	-2.1	1641999	3.599	3.675	18.257	18.256	9.11				
	88	1,3-Dichlorobenzene	10.097	1.0	854259	1.872	1.854	18.420	18.416	6.67				
	89	1,4-Dichlorobenzene	10.085	0.8	819779	1.797	1.782	18.583	18.586	6.58				
	90	n-Butylbenzene	9.579	-4.2	1683787	3.691	3.853	18.908	18.906	10.13				
	91	1,2-Dichlorobenzene	10.127	1.3	695958	1.525	1.506	19.145	19.144	6.68				
	92	1,2-Dibromo-3-chloropropane	10.405	4.0	42380	0.093	0.089	20.196	20.193	5.97				
	93	1,2,4-Trichlorobenzene	9.901	-1.0	413970	0.907	0.916	21.335	21.334	6.51				
	94	Hexachlorobutadiene	9.621	-3.8	256822	0.563	0.585	21.513	21.514	7.65				
	95	Naphthalene	10.187	1.9	493053	1.081	1.061	21.705	21.702	6.04				
	96	1,2,3-Trichlorobenzene	9.814	-1.9	328132	0.719	0.733	22.030	22.038	7.34				

Spike Amount = Nominal Amount * M

Sq 2/16/10

1055

DAILY CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV043
Instrument ID: TO01
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/05/11
BFB Injection Time : 07:38
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.77
75	30.0 - 60.0% of mass 95	45.88
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	73.25
175	5.0 - 9.0% of mass 174	5.14(7.0)1
176	95.0 - 101.0% of mass 174	72.60(99.1)1
177	5.0 - 9.0% of mass 176	4.52(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1119	RAV044	01/05/11	08:10
2	MBLK1W	V001A03B	RAV048	01/05/11	10:22
3	LCS1W	V001A03L	RAV045	01/05/11	08:44
4	LCD1W	V001A03C	RAV046	01/05/11	09:17
5	SSI-TB-002	A027-15	RAV055	01/05/11	14:08
6	SSI-GW-007DL	A027-07T	RAV056	01/05/11	14:40
7	SSI-GW-002	A027-02	RAV057	01/05/11	15:13

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1413309	8.79	1248172	13.98	430738	19.09
2	MBLK1W	1446963	8.79	1271014	13.98	433045	19.09
3	LCS1W	1476919	8.80	1293526	13.99	428743	19.08
4	LCD1W	1438062	8.79	1235880	13.98	418049	19.09
5	SSI-TB-002	1381266	8.80	1156267	14.00	382369	19.09
6	SSI-GW-007DL	1302800	8.80	1128658	14.00	383902	19.09
7	SSI-GW-002	1388545	8.80	1186768	14.00	389923	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	98	-0.03
2	T	Dichlorodifluoromethane	10.000	9.643	3.6	87	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	96	-0.01
4	P,T	Chloromethane	10.000	9.520	4.8	87	-0.01
5	C,T	Vinyl chloride	10.000	8.940	10.6	92	-0.01
6	T	Bromomethane	10.000	9.655	3.5	87	-0.01
7	T	Chloroethane	10.000	8.861	11.4	82	0.00
8	T	Dichlorofluoromethane	10.000	9.872	1.3	94	-0.01
9	T	Trichlorofluoromethane	10.000	7.696	23.0#	72	-0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	98	-0.01
11	T	Acrolein	50.000	43.043	13.9	82	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.287	-2.9	96	-0.01
13	T	Acetone	50.000	47.064	5.9	91	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.048	-0.5	96	-0.01
15	T	tert-Butyl alcohol	50.000	45.089	9.8	91	-0.01
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	9.311	6.9	87	-0.01
18	T	Methyl acetate	-1.000	0.000	0.0	92	-0.01
19	T	Methylene chloride	10.000	9.140	8.6	92	-0.01
20	T	Carbon disulfide	10.000	8.488	15.1	74	-0.01
21	T	Acrylonitrile	50.000	47.374	5.3	92	-0.01
22	T	tert-Butyl methyl ether (MT	10.000	10.005	-0.1	95	-0.01
23	T	trans-1,2-Dichloroethene	10.000	9.947	0.5	96	-0.01
24	T	Isopropyl ether (DIPE)	10.000	10.119	-1.2	96	-0.01
25	T	Vinyl acetate	10.000	7.345	26.6#	69	-0.01
26	P,T	1,1-Dichloroethane	10.000	10.350	-3.5	98	-0.03
27	T	2-Butanol	-1.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	10.000	9.975	0.3	94	-0.01
29	T	2-Butanone	50.000	47.066	5.9	93	-0.01
30	T	2,2-Dichloropropane	10.000	10.744	-7.4	104	-0.01
31	T	cis-1,2-Dichloroethene	10.000	10.290	-2.9	97	-0.03
32	C,T	Chloroform	10.000	10.243	-2.4	98	-0.01
33	T	Bromochloromethane	10.000	10.114	-1.1	94	-0.01
34	S	Dibromofluoromethane	10.000	9.882	1.2	91	-0.03
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	10.637	-6.4	102	-0.03
37	T	Cyclohexane	-1.000	0.000	0.0	80	-0.03
38	T	1-Butanol	-1.000	0.000	0.0	74	-0.03
39	T	tert-Amyl methyl ether (TAM	10.000	9.871	1.3	92	-0.03
40	S	1,2-Dichloroethane-d4	10.000	9.715	2.9	91	-0.01
41	I	CHLOROBENZENE-D5	10.000	10.000	0.0	100	0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D
Acq On : 5 Jan 2011 8:10 am
Sample : CVO01L1119
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.791	2.1	98	-0.01
43	T	Carbon tetrachloride	10.000	10.219	-2.2	101	-0.03
44	T	1,2-Dichloroethane	10.000	9.872	1.3	96	-0.03
45	T	Benzene	10.000	10.182	-1.8	100	-0.03
46	T	Trichloroethene	10.000	9.981	0.2	96	-0.03
47	T	Methylcyclohexane	-1.000	0.000	0.0	83	-0.01
48	C,T	1,2-Dichloropropane	10.000	10.099	-1.0	99	-0.01
49	T	1,4-Dioxane	200.000	174.565	12.7	88	-0.03
50	T	Bromodichloromethane	10.000	9.882	1.2	95	-0.03
51	T	Dibromomethane	10.000	9.448	5.5	91	-0.03
52	T	2-Chloroethyl vinyl ether	10.000	6.337	36.6#	63	-0.03
53	T	4-Methyl-2-pentanone	50.000	45.195	9.6	90	-0.03
54	T	cis-1,3-Dichloropropene	10.000	10.095	-1.0	97	-0.03
55	S	Toluene-d8	10.000	9.801	2.0	94	-0.03
56	C,T	Toluene	10.000	10.214	-2.1	101	-0.03
57	T	Ethyl methacrylate	10.000	9.733	2.7	92	-0.03
58	T	trans-1,3-Dichloropropene	10.000	10.106	-1.1	98	-0.03
59	T	2-Hexanone	50.000	45.429	9.1	91	-0.03
60	T	1,1,2-Trichloroethane	10.000	9.999	0.0	96	-0.03
61	T	1,3-Dichloropropane	10.000	9.939	0.6	96	-0.03
62	T	Tetrachloroethene	10.000	10.273	-2.7	101	-0.03
63	T	Dibromochloromethane	10.000	9.859	1.4	94	-0.03
64	T	1,2-Dibromoethane	10.000	9.337	6.6	90	-0.03
65	T	1-Chlorohexane	10.000	10.140	-1.4	99	-0.03
66	P	Chlorobenzene	10.000	10.374	-3.7	100	-0.03
67	T	1,1,1,2-Tetrachloroethane	10.000	10.341	-3.4	100	-0.04
68	C,T	Ethylbenzene	10.000	10.169	-1.7	101	-0.03
69	T	m-Xylene & p-Xylene	20.000	20.325	-1.6	100	-0.03
70	T	o-Xylene	10.000	10.429	-4.3	100	-0.03
71	T	Styrene	10.000	10.742	-7.4	100	-0.04
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	95	-0.01
73	T	Isopropylbenzene	10.000	10.857	-8.6	101	-0.03
74	P,T	Bromoform	10.000	10.214	-2.1	92	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.860	1.4	93	-0.03
76	S	4-Bromofluorobenzene	10.000	10.638	-6.4	96	-0.03
77	T	1,2,3-Trichloropropane	10.000	9.400	6.0	94	-0.03
78	T	trans-1,4-Dichloro-2-butene	10.000	10.196	-2.0	94	-0.03
79	T	n-Propylbenzene	10.000	10.894	-8.9	101	-0.03
80	T	Bromobenzene	10.000	10.562	-5.6	98	-0.03
81	T	1,3,5-Trimethylbenzene	10.000	10.833	-8.3	100	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	10.870	-8.7	105	-0.03
83	T	4-Chlorotoluene	10.000	10.874	-8.7	98	-0.04
84	T	tert-Butylbenzene	10.000	11.264	-12.6	105	-0.03
85	T	1,2,4-Trimethylbenzene	10.000	11.015	-10.2	100	-0.03
86	T	sec-Butylbenzene	10.000	11.114	-11.1	104	-0.03
87	T	p-Isopropyltoluene	10.000	11.115	-11.2	102	-0.03
88	T	1,3-Dichlorobenzene	10.000	10.848	-8.5	100	-0.03
89	T	1,4-Dichlorobenzene	10.000	10.726	-7.3	99	-0.03
90	T	n-Butylbenzene	10.000	11.120	-11.2	102	-0.03
91	T	1,2-Dichlorobenzene	10.000	10.666	-6.7	98	-0.03
92	T	1,2-Dibromo-3-chloropropane	10.000	9.871	1.3	91	-0.03
93	T	1,2,4-Trichlorobenzene	10.000	10.347	-3.5	97	-0.03
94	T	Hexachlorobutadiene	10.000	10.544	-5.4	97	-0.03
95	T	Naphthalene	10.000	9.895	1.1	95	-0.03
96	T	1,2,3-Trichlorobenzene	10.000	9.955	0.4	95	-0.04

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	-0.03
2	T	Dichlorodifluoromethane	0.175	0.169	3.4	87	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	96	-0.01
4	P,T	Chloromethane	0.342	0.326	4.7	87	-0.01
5	C,T	Vinyl chloride	0.292	0.261	10.6	92	-0.01
6	T	Bromomethane	0.217	0.210	3.2	87	-0.01
7	T	Chloroethane	0.227	0.201	11.5	82	0.00
8	T	Dichlorofluoromethane	0.586	0.578	1.4	94	-0.01
9	T	Trichlorofluoromethane	0.332	0.256	22.9#	72	-0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	98	-0.01
11	T	Acrolein	0.016	0.014	12.5	82	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.164	-3.1	96	-0.01
13	T	Acetone	0.039	0.037	5.1	91	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.462	-0.4	96	-0.01
15	T	tert-Butyl alcohol	0.015	0.013	13.3	91	-0.01
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.452	6.8	87	-0.01
18	T	Methyl acetate	0.000	0.000	0.0	92	-0.01
19	T	Methylene chloride	0.479	0.438	8.6	92	-0.01
20	T	Carbon disulfide	1.122	1.009	10.1	74	-0.01
21	T	Acrylonitrile	0.052	0.049	5.8	92	-0.01
22	T	tert-Butyl methyl ether (MT	0.455	0.455	0.0	95	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.513	0.6	96	-0.01
24	T	Isopropyl ether (DIPE)	1.265	1.280	-1.2	96	-0.01
25	T	Vinyl acetate	0.465	0.341	26.7#	69	-0.01
26	P,T	1,1-Dichloroethane	0.632	0.654	-3.5	98	-0.03
27	T	2-Butanol	0.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	0.753	0.751	0.3	94	-0.01
29	T	2-Butanone	0.074	0.070	5.4	93	-0.01
30	T	2,2-Dichloropropane	0.381	0.409	-7.3	104	-0.01
31	T	cis-1,2-Dichloroethene	0.370	0.381	-3.0	97	-0.03
32	C,T	Chloroform	0.545	0.558	-2.4	98	-0.01
33	T	Bromochloromethane	0.274	0.277	-1.1	94	-0.01
34	S	Dibromofluoromethane	0.300	0.296	1.3	91	-0.03
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.420	-6.3	102	-0.03
37	T	Cyclohexane	0.000	0.000	0.0	80	-0.03
38	T	1-Butanol	0.000	0.000	0.0	74	-0.03
39	T	tert-Amyl methyl ether (TAM	0.112	0.110	1.8	92	-0.03
40	S	1,2-Dichloroethane-d4	0.234	0.228	2.6	91	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~100~~	~~0.04~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.188	2.1	98	-0.01
43	T	Carbon tetrachloride	0.378	0.387	-2.4	101	-0.03
44	T	1,2-Dichloroethane	0.335	0.331	1.2	96	-0.03
45	T	Benzene	1.557	1.585	-1.8	100	-0.03
46	T	Trichloroethene	0.413	0.412	0.2	96	-0.03
47	T	Methylcyclohexane	0.000	0.000	0.0	83	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.434	-0.9	99	-0.01
49	T	1,4-Dioxane	0.001	0.001	0.0	88	-0.03
50	T	Bromodichloromethane	0.460	0.454	1.3	95	-0.03
51	T	Dibromomethane	0.164	0.155	5.5	91	-0.03
52	T	2-Chloroethyl vinyl ether	0.106	0.067	36.8#	63	-0.03
53	T	4-Methyl-2-pentanone	0.220	0.199	9.5	90	-0.03
54	T	cis-1,3-Dichloropropene	0.581	0.586	-0.9	97	-0.03
55	S	Toluene-d8	1.303	1.277	2.0	94	-0.03
56	C,T	Toluene	1.591	1.625	-2.1	101	-0.03
57	T	Ethyl methacrylate	0.310	0.302	2.6	92	-0.03
58	T	trans-1,3-Dichloropropene	0.409	0.414	-1.2	98	-0.03
59	T	2-Hexanone	0.137	0.125	8.8	91	-0.03
60	T	1,1,2-Trichloroethane	0.220	0.220	0.0	96	-0.03
61	T	1,3-Dichloropropane	0.431	0.429	0.5	96	-0.03
62	T	Tetrachloroethene	0.311	0.319	-2.6	101	-0.03
63	T	Dibromochloromethane	0.271	0.267	1.5	94	-0.03
64	T	1,2-Dibromoethane	0.216	0.201	6.9	90	-0.03
65	T	1-Chlorohexane	0.651	0.660	-1.4	99	-0.03
66	P	Chlorobenzene	0.952	0.988	-3.8	100	-0.03
67	T	1,1,1,2-Tetrachloroethane	0.307	0.317	-3.3	100	-0.04
68	C,T	Ethylbenzene	1.813	1.844	-1.7	101	-0.03
69	T	m-Xylene & p-Xylene	1.332	1.354	-1.7	100	-0.03
70	T	o-Xylene	1.301	1.356	-4.2	100	-0.03
71	T	Styrene	0.980	1.053	-7.4	100	-0.04
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	95	-0.01
73	T	Isopropylbenzene	4.392	4.768	-8.6	101	-0.03
74	P,T	Bromoform	0.370	0.378	-2.2	92	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.706	1.4	93	-0.03
76	S	4-Bromofluorobenzene	1.134	1.206	-6.3	96	-0.03
77	T	1,2,3-Trichloropropane	0.180	0.169	6.1	94	-0.03
78	T	trans-1,4-Dichloro-2-butene	0.185	0.188	-1.6	94	-0.03
79	T	n-Propylbenzene	5.832	6.353	-8.9	101	-0.03
80	T	Bromobenzene	0.918	0.970	-5.7	98	-0.03
81	T	1,3,5-Trimethylbenzene	3.456	3.744	-8.3	100	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.858	-8.7	105	-0.03
83	T	4-Chlorotoluene	3.056	3.323	-8.7	98	-0.04
84	T	tert-Butylbenzene	0.785	0.884	-12.6	105	-0.03
85	T	1,2,4-Trimethylbenzene	3.415	3.762	-10.2	100	-0.03
86	T	sec-Butylbenzene	4.814	5.351	-11.2	104	-0.03
87	T	p-Isopropyltoluene	3.675	4.084	-11.1	102	-0.03
88	T	1,3-Dichlorobenzene	1.854	2.012	-8.5	100	-0.03
89	T	1,4-Dichlorobenzene	1.782	1.911	-7.2	99	-0.03
90	T	n-Butylbenzene	3.853	4.284	-11.2	102	-0.03
91	T	1,2-Dichlorobenzene	1.506	1.607	-6.7	98	-0.03
92	T	1,2-Dibromo-3-chloropropane	0.089	0.088	1.1	91	-0.03
93	T	1,2,4-Trichlorobenzene	0.916	0.948	-3.5	97	-0.03
94	T	Hexachlorobutadiene	0.585	0.617	-5.5	97	-0.03
95	T	Naphthalene	1.061	1.050	1.0	95	-0.03
96	T	1,2,3-Trichlorobenzene	0.733	0.730	0.4	95	-0.04

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11A027

Lab File ID: RAV066 — BFB Injection Date : 01/05/11

Instrument ID: T001 — BFB Injection Time : 20:03

GC Column:RTX502.2IO:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.19
75	30.0 - 60.0% of mass 95	45.92
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.54
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	76.85
175	5.0 - 9.0% of mass 174	5.35(7.0)1
176	95.0 - 101.0% of mass 174	73.41(95.5)1
177	5.0 - 9.0% of mass 176	4.94(6.7)2

1-Value is % mass 174 — 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1120	RAV067	01/05/11	20:34
2	MBLK2W	V001A04B	RAV071	01/05/11	22:42
3	LCS2W	V001A04L	RAV068	01/05/11	21:06
4	LCD2W	V001A04C	RAV069	01/05/11	21:40
5	SSI-GW-009	A027-09	RAV072	01/05/11	23:14
6	SSI-GW-010	A027-10	RAV073	01/05/11	23:47
7	SSI-GW-011	A027-11	RAV074	01/06/11	00:19
8	SSI-D-001	A027-12	RAV075	01/06/11	00:51
9	SSI-GW-001	A027-01	RAV078	01/06/11	02:29

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1431828	8.80	1241936	14.01	437307	19.10
2	MBLK2W	1438682	8.79	1290828	14.00	453449	19.09
3	LCS2W	1423696	8.80	1230939	14.00	426370	19.09
4	LCD2W	1388330	8.80	1234066	13.99	431824	19.08
5	SSI-GW-009	1357001	8.79	1192825	14.00	399944	19.09
6	SSI-GW-010	1412957	8.80	1241188	14.00	421851	19.09
7	SSI-GW-011	1408859	8.80	1239372	14.00	424262	19.09
8	SSI-D-001	1361533	8.80	1207692	13.99	402769	19.08
9	SSI-GW-001	1342086	8.80	1180727	14.00	399569	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.
page 1 of 1

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D
Acq On : 5 Jan 2011 8:34 pm
Sample : CVO01L1120
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	99	-0.02
2	T	Dichlorodifluoromethane	10.000	8.603	14.0	79	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	89	0.00
4	P,T	Chloromethane	10.000	9.907	0.9	92	0.00
5	C,T	Vinyl chloride	10.000	9.244	7.6	97	-0.02
6	T	Bromomethane	10.000	10.116	-1.2	92	0.00
7	T	Chloroethane	10.000	8.994	10.1	84	0.00
8	T	Dichlorofluoromethane	10.000	9.617	3.8	93	0.00
9	T	Trichlorofluoromethane	10.000	6.881	31.2#	65	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	93	0.00
11	T	Acrolein	50.000	37.648	24.7#	72	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	7.914	20.9#	75	0.00
13	T	Acetone	50.000	46.149	7.7	90	0.00
14	C,T	1,1-Dichloroethene	10.000	9.527	4.7	92	0.00
15	T	tert-Butyl alcohol	50.000	41.095	17.8	84	0.01
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.963	10.4	85	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	95	0.00
19	T	Methylene chloride	10.000	9.173	8.3	94	0.00
20	T	Carbon disulfide	10.000	8.883	11.2	78	0.00
21	T	Acrylonitrile	50.000	48.560	2.9	96	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.619	3.8	92	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.874	1.3	96	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.016	-0.2	96	0.00
25	T	Vinyl acetate	10.000	7.273	27.3#	69	0.00
26	P,T	1,1-Dichloroethane	10.000	10.101	-1.0	97	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	108	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.523	4.8	91	0.00
29	T	2-Butanone	50.000	47.883	4.2	96	0.00
30	T	2,2-Dichloropropane	10.000	9.848	1.5	97	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.011	-0.1	95	-0.02
32	C,T	Chloroform	10.000	9.973	0.3	97	0.00
33	T	Bromochloromethane	10.000	9.845	1.5	93	0.00
34	S	Dibromofluoromethane	10.000	9.611	3.9	89	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.896	1.0	96	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	96	0.00
38	T	1-Butanol	-1.000	0.000	0.0	88	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.383	6.2	89	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.557	4.4	90	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~100~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.644	3.6	96	0.00
43	T	Carbon tetrachloride	10.000	9.483	5.2	93	-0.02
44	T	1,2-Dichloroethane	10.000	9.974	0.3	96	-0.02
45	T	Benzene	10.000	10.083	-0.8	99	-0.02
46	T	Trichloroethene	10.000	10.228	-2.3	98	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	94	-0.02
48	C,T	1,2-Dichloropropane	10.000	10.248	-2.5	100	0.00
49	T	1,4-Dioxane	200.000	173.472	13.3	87	-0.02
50	T	Bromodichloromethane	10.000	9.925	0.7	95	-0.02
51	T	Dibromomethane	10.000	9.373	6.3	90	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	6.883	31.2#	68	-0.02
53	T	4-Methyl-2-pentanone	50.000	46.180	7.6	92	-0.02
54	T	cis-1,3-Dichloropropene	10.000	10.090	-0.9	97	0.00
55	S	Toluene-d8	10.000	10.029	-0.3	96	-0.02
56	C,T	Toluene	10.000	10.267	-2.7	101	-0.02
57	T	Ethyl methacrylate	10.000	9.719	2.8	92	0.00
58	T	trans-1,3-Dichloropropene	10.000	10.122	-1.2	97	-0.02
59	T	2-Hexanone	50.000	46.042	7.9	91	-0.02
60	T	1,1,2-Trichloroethane	10.000	9.926	0.7	95	-0.02
61	T	1,3-Dichloropropane	10.000	9.895	1.1	95	-0.02
62	T	Tetrachloroethene	10.000	10.017	-0.2	98	-0.02
63	T	Dibromochloromethane	10.000	9.800	2.0	93	-0.02
64	T	1,2-Dibromoethane	10.000	9.525	4.7	91	-0.02
65	T	1-Chlorohexane	10.000	9.770	2.3	95	-0.02
66	P	Chlorobenzene	10.000	10.324	-3.2	99	-0.02
67	T	1,1,1,2-Tetrachloroethane	10.000	10.230	-2.3	98	-0.02
68	C,T	Ethylbenzene	10.000	10.418	-4.2	103	-0.02
69	T	m-Xylene & p-Xylene	20.000	20.526	-2.6	101	-0.02
70	T	o-Xylene	10.000	10.600	-6.0	101	-0.02
71	T	Styrene	10.000	10.678	-6.8	99	-0.03
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	97	0.00
73	T	Isopropylbenzene	10.000	10.746	-7.5	101	-0.02
74	P,T	Bromoform	10.000	9.984	0.2	91	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.775	2.2	93	-0.02
76	S	4-Bromofluorobenzene	10.000	10.537	-5.4	96	-0.02
77	T	1,2,3-Trichloropropane	10.000	9.376	6.2	95	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	10.138	-1.4	94	-0.02
79	T	n-Propylbenzene	10.000	10.790	-7.9	101	-0.02
80	T	Bromobenzene	10.000	10.282	-2.8	97	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	10.874	-8.7	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	10.745	-7.4	105	-0.02
83	T	4-Chlorotoluene	10.000	10.939	-9.4	100	-0.03
84	T	tert-Butylbenzene	10.000	10.980	-9.8	104	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	10.789	-7.9	100	-0.02
86	T	sec-Butylbenzene	10.000	10.789	-7.9	102	-0.02
87	T	p-Isopropyltoluene	10.000	10.923	-9.2	102	-0.02
88	T	1,3-Dichlorobenzene	10.000	10.626	-6.3	100	-0.02
89	T	1,4-Dichlorobenzene	10.000	10.549	-5.5	99	0.00
90	T	n-Butylbenzene	10.000	10.791	-7.9	101	-0.02
91	T	1,2-Dichlorobenzene	10.000	10.512	-5.1	98	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.618	3.8	90	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	10.511	-5.1	100	-0.02
94	T	Hexachlorobutadiene	10.000	10.443	-4.4	97	-0.03
95	T	Naphthalene	10.000	10.012	-0.1	98	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	9.964	0.4	96	-0.03

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	99	-0.02
2	T	Dichlorodifluoromethane	0.175	0.151	13.7	79	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	89	0.00
4	P,T	Chloromethane	0.342	0.339	0.9	92	0.00
5	C,T	Vinyl chloride	0.292	0.270	7.5	97	-0.02
6	T	Bromomethane	0.217	0.220	-1.4	92	0.00
7	T	Chloroethane	0.227	0.204	10.1	84	0.00
8	T	Dichlorofluoromethane	0.586	0.563	3.9	93	0.00
9	T	Trichlorofluoromethane	0.332	0.229	31.0#	65	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	93	0.00
11	T	Acrolein	0.016	0.012	25.0#	72	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.126	20.8#	75	0.00
13	T	Acetone	0.039	0.036	7.7	90	0.00
14	C,T	1,1-Dichloroethene	0.460	0.438	4.8	92	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	84	0.01
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.435	10.3	85	0.00
18	T	Methyl acetate	0.000	0.000	0.0	95	0.00
19	T	Methylene chloride	0.479	0.439	8.4	94	0.00
20	T	Carbon disulfide	1.122	1.057	5.8	78	0.00
21	T	Acrylonitrile	0.052	0.051	1.9	96	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.437	4.0	92	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.509	1.4	96	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.267	-0.2	96	0.00
25	T	Vinyl acetate	0.465	0.338	27.3#	69	0.00
26	P,T	1,1-Dichloroethane	0.632	0.638	-0.9	97	-0.02
27	T	2-Butanol	0.000	0.000	0.0	108	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.717	4.8	91	0.00
29	T	2-Butanone	0.074	0.071	4.1	96	0.00
30	T	2,2-Dichloropropane	0.381	0.375	1.6	97	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.371	-0.3	95	-0.02
32	C,T	Chloroform	0.545	0.544	0.2	97	0.00
33	T	Bromochloromethane	0.274	0.269	1.8	93	0.00
34	S	Dibromofluoromethane	0.300	0.288	4.0	89	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.391	1.0	96	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	96	0.00
38	T	1-Butanol	0.000	0.000	0.0	88	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.105	6.3	89	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.224	4.3	90	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~100~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.185	3.6	96	0.00
43	T	Carbon tetrachloride	0.378	0.359	5.0	93	-0.02
44	T	1,2-Dichloroethane	0.335	0.334	0.3	96	-0.02
45	T	Benzene	1.557	1.570	-0.8	99	-0.02
46	T	Trichloroethene	0.413	0.422	-2.2	98	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	94	-0.02
48	C,T	1,2-Dichloropropane	0.430	0.440	-2.3	100	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	87	-0.02
50	T	Bromodichloromethane	0.460	0.456	0.9	95	-0.02
51	T	Dibromomethane	0.164	0.154	6.1	90	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.073	31.1#	68	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.203	7.7	92	-0.02
54	T	cis-1,3-Dichloropropene	0.581	0.586	-0.9	97	0.00
55	S	Toluene-d8	1.303	1.306	-0.2	96	-0.02
56	C,T	Toluene	1.591	1.633	-2.6	101	-0.02
57	T	Ethyl methacrylate	0.310	0.301	2.9	92	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.414	-1.2	97	-0.02
59	T	2-Hexanone	0.137	0.126	8.0	91	-0.02
60	T	1,1,2-Trichloroethane	0.220	0.218	0.9	95	-0.02
61	T	1,3-Dichloropropane	0.431	0.427	0.9	95	-0.02
62	T	Tetrachloroethene	0.311	0.311	0.0	98	-0.02
63	T	Dibromochloromethane	0.271	0.265	2.2	93	-0.02
64	T	1,2-Dibromoethane	0.216	0.206	4.6	91	-0.02
65	T	1-Chlorohexane	0.651	0.636	2.3	95	-0.02
66	P	Chlorobenzene	0.952	0.983	-3.3	99	-0.02
67	T	1,1,1,2-Tetrachloroethane	0.307	0.314	-2.3	98	-0.02
68	C,T	Ethylbenzene	1.813	1.889	-4.2	103	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.367	-2.6	101	-0.02
70	T	o-Xylene	1.301	1.379	-6.0	101	-0.02
71	T	Styrene	0.980	1.047	-6.8	99	-0.03
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	4.392	4.720	-7.5	101	-0.02
74	P,T	Bromoform	0.370	0.369	0.3	91	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.700	2.2	93	-0.02
76	S	4-Bromofluorobenzene	1.134	1.195	-5.4	96	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.169	6.1	95	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.187	-1.1	94	-0.02
79	T	n-Propylbenzene	5.832	6.293	-7.9	101	-0.02
80	T	Bromobenzene	0.918	0.944	-2.8	97	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.759	-8.8	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.814	-7.5	105	-0.02
83	T	4-Chlorotoluene	3.056	3.343	-9.4	100	-0.03
84	T	tert-Butylbenzene	0.785	0.862	-9.8	104	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.684	-7.9	100	-0.02
86	T	sec-Butylbenzene	4.814	5.194	-7.9	102	-0.02
87	T	p-Isopropyltoluene	3.675	4.014	-9.2	102	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.971	-6.3	100	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.880	-5.5	99	0.00
90	T	n-Butylbenzene	3.853	4.158	-7.9	101	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.584	-5.2	98	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.086	3.4	90	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.963	-5.1	100	-0.02
94	T	Hexachlorobutadiene	0.585	0.611	-4.4	97	-0.03
95	T	Naphthalene	1.061	1.062	-0.1	98	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.730	0.4	96	-0.03

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV084
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/06/11
BFB Injection Time : 15:29
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.15
75	30.0 - 60.0% of mass 95	45.60
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.41
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.31
175	5.0 - 9.0% of mass 174	5.29(7.1)1
176	95.0 - 101.0% of mass 174	73.07(98.3)1
177	5.0 - 9.0% of mass 176	4.70(6.4)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1121	RAV085	01/06/11	16:03
2	MBLK3W	V001A05B	RAV090	01/06/11	18:44
3	LCS3W	V001A05X	RAV088	01/06/11	17:39
4	LCD3W	V001A05C	RAV087	01/06/11	17:07
5	SSI-GW-005	A027-05R	RAV091	01/06/11	19:17
6	SSI-ER-001	A027-13R	RAV092	01/06/11	19:49
7	SSI-SWB-001	A027-14R	RAV093	01/06/11	20:22
8	SSI-GW-001DL	A027-01T	RAV097	01/06/11	22:33
9	SSI-GW-002DL	A027-02T	RAV098	01/06/11	23:07
10	SSI-GW-003DL	A027-03T	RAV099	01/06/11	23:39
11	SSI-GW-004DL	A027-04T	RAV100	01/07/11	00:12
12	SSI-GW-003	A027-03R	RAV101	01/07/11	00:44
13	SSI-GW-007	A027-07	RAV102	01/07/11	01:17
14	SSI-GW-004	A027-04R	RAV104	01/07/11	02:22
15	SSI-GW-006	A027-06R	RAV105	01/07/11	02:55

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1569389	8.80	1373301	14.01	487107	19.10
2	MBLK3W	1445821	8.80	1291886	14.01	454899	19.10
3	LCS3W	1520272	8.80	1325948	14.01	476083	19.10
4	LCD3W	1472056	8.80	1299105	14.01	458595	19.10
5	SSI-GW-005	1408341	8.80	1238857	14.01	438886	19.10
6	SSI-ER-001	1415748	8.80	1270109	14.01	432972	19.10
7	SSI-SWB-001	1419950	8.80	1240248	14.00	427501	19.09
8	SSI-GW-001DL	1346058	8.80	1197693	14.01	412835	19.10
9	SSI-GW-002DL	1356410	8.80	1208957	14.01	422709	19.10
10	SSI-GW-003DL	1350622	8.80	1201960	14.01	411318	19.10
11	SSI-GW-004DL	1340545	8.80	1196596	14.01	413458	19.10
12	SSI-GW-003	1443332	8.80	1255668	14.01	435603	19.10
13	SSI-GW-007	1442102	8.80	1261885	14.01	429552	19.10
14	SSI-GW-004	1391585	8.80	1223613	14.01	416537	19.10
15	SSI-GW-006	1435674	8.82	1278674	14.01	442916	19.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	-0.01
2	T	Dichlorodifluoromethane	10.000	11.601	-16.0	116	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	94	-0.01
4	P,T	Chloromethane	10.000	11.219	-12.2	114	-0.01
5	C,T	Vinyl chloride	10.000	11.128	-11.3	127	-0.01
6	T	Bromomethane	10.000	11.455	-14.6	115	-0.01
7	T	Chloroethane	10.000	10.712	-7.1	109	0.00
8	T	Dichlorofluoromethane	10.000	8.684	13.2	92	-0.01
9	T	Trichlorofluoromethane	10.000	9.755	2.4	101	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	96	-0.01
11	T	Acrolein	50.000	33.570	32.9#	71	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	11.936	-19.4	123	-0.01
13	T	Acetone	50.000	43.617	12.8	93	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.636	-6.4	113	0.00
15	T	tert-Butyl alcohol	50.000	40.505	19.0	91	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.642	-6.4	110	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	100	0.00
19	T	Methylene chloride	10.000	8.974	10.3	100	-0.01
20	T	Carbon disulfide	10.000	10.354	-3.5	100	-0.01
21	T	Acrylonitrile	50.000	45.577	8.8	99	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.280	7.2	97	-0.01
23	T	trans-1,2-Dichloroethene	10.000	9.752	2.5	104	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.447	5.5	99	0.00
25	T	Vinyl acetate	10.000	8.142	18.6	84	0.00
26	P,T	1,1-Dichloroethane	10.000	10.134	-1.3	107	-0.01
27	T	2-Butanol	-1.000	0.000	0.0	100	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.368	6.3	98	-0.01
29	T	2-Butanone	50.000	45.949	8.1	100	0.00
30	T	2,2-Dichloropropane	10.000	10.038	-0.4	108	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.346	6.5	98	-0.01
32	C,T	Chloroform	10.000	9.976	0.2	106	-0.01
33	T	Bromochloromethane	10.000	9.573	4.3	99	0.00
34	S	Dibromofluoromethane	10.000	10.095	-1.0	103	-0.01
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.988	0.1	107	-0.01
37	T	Cyclohexane	-1.000	0.000	0.0	95	-0.01
38	T	1-Butanol	-1.000	0.000	0.0	89	-0.01
39	T	tert-Amyl methyl ether (TAM	10.000	9.640	3.6	100	-0.01
40	S	1,2-Dichloroethane-d4	10.000	10.205	-2.1	106	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~111~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.587	4.1	105	-0.01
43	T	Carbon tetrachloride	10.000	9.881	1.2	108	-0.01
44	T	1,2-Dichloroethane	10.000	9.490	5.1	101	-0.01
45	T	Benzene	10.000	9.510	4.9	103	-0.01
46	T	Trichloroethene	10.000	9.686	3.1	102	-0.01
47	T	Methylcyclohexane	-1.000	0.000	0.0	91	-0.01
48	C,T	1,2-Dichloropropane	10.000	9.593	4.1	103	0.00
49	T	1,4-Dioxane	200.000	159.571	20.2#	89	-0.01
50	T	Bromodichloromethane	10.000	9.120	8.8	97	-0.01
51	T	Dibromomethane	10.000	9.058	9.4	96	-0.01
52	T	2-Chloroethyl vinyl ether	10.000	7.401	26.0#	80	-0.01
53	T	4-Methyl-2-pentanone	50.000	44.398	11.2	98	-0.01
54	T	cis-1,3-Dichloropropene	10.000	9.571	4.3	102	0.00
55	S	Toluene-d8	10.000	10.461	-4.6	110	-0.01
56	C,T	Toluene	10.000	9.458	5.4	102	-0.01
57	T	Ethyl methacrylate	10.000	9.190	8.1	96	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.748	2.5	104	0.00
59	T	2-Hexanone	50.000	44.755	10.5	98	-0.01
60	T	1,1,2-Trichloroethane	10.000	9.456	5.4	100	-0.01
61	T	1,3-Dichloropropane	10.000	9.281	7.2	99	0.00
62	T	Tetrachloroethene	10.000	9.817	1.8	106	-0.01
63	T	Dibromochloromethane	10.000	9.034	9.7	94	-0.01
64	T	1,2-Dibromoethane	10.000	8.750	12.5	93	-0.01
65	T	1-Chlorohexane	10.000	9.967	0.3	107	-0.01
66	P	Chlorobenzene	10.000	9.733	2.7	103	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.213	7.9	98	-0.01
68	C,T	Ethylbenzene	10.000	9.306	6.9	102	-0.01
69	T	m-Xylene & p-Xylene	20.000	18.609	7.0	101	0.00
70	T	o-Xylene	10.000	9.470	5.3	100	-0.01
71	T	Styrene	10.000	9.699	3.0	100	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	108	0.00
73	T	Isopropylbenzene	10.000	9.883	1.2	104	0.00
74	P,T	Bromoform	10.000	9.353	6.5	95	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.017	9.8	96	0.00
76	S	4-Bromofluorobenzene	10.000	10.664	-6.6	108	-0.01
77	T	1,2,3-Trichloropropane	10.000	8.529	14.7	96	-0.01
78	T	trans-1,4-Dichloro-2-butene	10.000	9.180	8.2	95	-0.01
79	T	n-Propylbenzene	10.000	9.591	4.1	100	-0.01
80	T	Bromobenzene	10.000	9.480	5.2	99	-0.01
81	T	1,3,5-Trimethylbenzene	10.000	9.550	4.5	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.729	2.7	106	-0.01
83	T	4-Chlorotoluene	10.000	9.188	8.1	93	-0.01
84	T	tert-Butylbenzene	10.000	9.896	1.0	104	-0.01
85	T	1,2,4-Trimethylbenzene	10.000	9.772	2.3	101	-0.01
86	T	sec-Butylbenzene	10.000	9.747	2.5	103	-0.01
87	T	p-Isopropyltoluene	10.000	9.787	2.1	101	0.00
88	T	1,3-Dichlorobenzene	10.000	9.482	5.2	99	-0.01
89	T	1,4-Dichlorobenzene	10.000	9.559	4.4	99	0.00
90	T	n-Butylbenzene	10.000	9.781	2.2	102	-0.01
91	T	1,2-Dichlorobenzene	10.000	9.677	3.2	101	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	8.717	12.8	91	-0.01
93	T	1,2,4-Trichlorobenzene	10.000	9.773	2.3	103	0.00
94	T	Hexachlorobutadiene	10.000	9.771	2.3	101	-0.01
95	T	Naphthalene	10.000	9.885	1.2	108	-0.01
96	T	1,2,3-Trichlorobenzene	10.000	9.326	6.7	100	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	-0.01
2	T	Dichlorodifluoromethane	0.175	0.203	-16.0	116	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	94	-0.01
4	P,T	Chloromethane	0.342	0.384	-12.3	114	-0.01
5	C,T	Vinyl chloride	0.292	0.325	-11.3	127	-0.01
6	T	Bromomethane	0.217	0.249	-14.7	115	-0.01
7	T	Chloroethane	0.227	0.243	-7.0	109	0.00
8	T	Dichlorofluoromethane	0.586	0.509	13.1	92	-0.01
9	T	Trichlorofluoromethane	0.332	0.324	2.4	101	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	96	-0.01
11	T	Acrolein	0.016	0.011	31.3#	71	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.190	-19.5	123	-0.01
13	T	Acetone	0.039	0.034	12.8	93	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.490	-6.5	113	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	91	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.516	-6.4	110	0.00
18	T	Methyl acetate	0.000	0.000	0.0	100	0.00
19	T	Methylene chloride	0.479	0.430	10.2	100	-0.01
20	T	Carbon disulfide	1.122	1.235	-10.1	100	-0.01
21	T	Acrylonitrile	0.052	0.048	7.7	99	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.422	7.3	97	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.503	2.5	104	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.195	5.5	99	0.00
25	T	Vinyl acetate	0.465	0.378	18.7	84	0.00
26	P,T	1,1-Dichloroethane	0.632	0.640	-1.3	107	-0.01
27	T	2-Butanol	0.000	0.000	0.0	100	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.706	6.2	98	-0.01
29	T	2-Butanone	0.074	0.068	8.1	100	0.00
30	T	2,2-Dichloropropane	0.381	0.382	-0.3	108	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.346	6.5	98	-0.01
32	C,T	Chloroform	0.545	0.544	0.2	106	-0.01
33	T	Bromochloromethane	0.274	0.262	4.4	99	0.00
34	S	Dibromofluoromethane	0.300	0.302	-0.7	103	-0.01
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.395	0.0	107	-0.01
37	T	Cyclohexane	0.000	0.000	0.0	95	-0.01
38	T	1-Butanol	0.000	0.000	0.0	89	-0.01
39	T	tert-Amyl methyl ether (TAM	0.112	0.108	3.6	100	-0.01
40	S	1,2-Dichloroethane-d4	0.234	0.239	-2.1	106	-0.01
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	111	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.184	4.2	105	-0.01
43	T	Carbon tetrachloride	0.378	0.374	1.1	108	-0.01
44	T	1,2-Dichloroethane	0.335	0.318	5.1	101	-0.01
45	T	Benzene	1.557	1.480	4.9	103	-0.01
46	T	Trichloroethene	0.413	0.400	3.1	102	-0.01
47	T	Methylcyclohexane	0.000	0.000	0.0	91	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.412	4.2	103	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	89	-0.01
50	T	Bromodichloromethane	0.460	0.419	8.9	97	-0.01
51	T	Dibromomethane	0.164	0.149	9.1	96	-0.01
52	T	2-Chloroethyl vinyl ether	0.106	0.079	25.5#	80	-0.01
53	T	4-Methyl-2-pentanone	0.220	0.196	10.9	98	-0.01
54	T	cis-1,3-Dichloropropene	0.581	0.556	4.3	102	0.00
55	S	Toluene-d8	1.303	1.363	-4.6	110	-0.01
56	C,T	Toluene	1.591	1.504	5.5	102	-0.01
57	T	Ethyl methacrylate	0.310	0.285	8.1	96	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.399	2.4	104	0.00
59	T	2-Hexanone	0.137	0.123	10.2	98	-0.01
60	T	1,1,2-Trichloroethane	0.220	0.208	5.5	100	-0.01
61	T	1,3-Dichloropropane	0.431	0.400	7.2	99	0.00
62	T	Tetrachloroethene	0.311	0.305	1.9	106	-0.01
63	T	Dibromochloromethane	0.271	0.244	10.0	94	-0.01
64	T	1,2-Dibromoethane	0.216	0.189	12.5	93	-0.01
65	T	1-Chlorohexane	0.651	0.649	0.3	107	-0.01
66	P	Chlorobenzene	0.952	0.926	2.7	103	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.282	8.1	98	-0.01
68	C,T	Ethylbenzene	1.813	1.687	6.9	102	-0.01
69	T	m-Xylene & p-Xylene	1.332	1.240	6.9	101	0.00
70	T	o-Xylene	1.301	1.232	5.3	100	-0.01
71	T	Styrene	0.980	0.951	3.0	100	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	108	0.00
73	T	Isopropylbenzene	4.392	4.341	1.2	104	0.00
74	P,T	Bromoform	0.370	0.346	6.5	95	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.646	9.8	96	0.00
76	S	4-Bromofluorobenzene	1.134	1.209	-6.6	108	-0.01
77	T	1,2,3-Trichloropropane	0.180	0.154	14.4	96	-0.01
78	T	trans-1,4-Dichloro-2-butene	0.185	0.170	8.1	95	-0.01
79	T	n-Propylbenzene	5.832	5.593	4.1	100	-0.01
80	T	Bromobenzene	0.918	0.871	5.1	99	-0.01
81	T	1,3,5-Trimethylbenzene	3.456	3.301	4.5	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.453	2.7	106	-0.01
83	T	4-Chlorotoluene	3.056	2.808	8.1	93	-0.01
84	T	tert-Butylbenzene	0.785	0.777	1.0	104	-0.01
85	T	1,2,4-Trimethylbenzene	3.415	3.337	2.3	101	-0.01
86	T	sec-Butylbenzene	4.814	4.692	2.5	103	-0.01
87	T	p-Isopropyltoluene	3.675	3.596	2.1	101	0.00
88	T	1,3-Dichlorobenzene	1.854	1.759	5.1	99	-0.01
89	T	1,4-Dichlorobenzene	1.782	1.703	4.4	99	0.00
90	T	n-Butylbenzene	3.853	3.769	2.2	102	-0.01
91	T	1,2-Dichlorobenzene	1.506	1.458	3.2	101	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.078	12.4	91	-0.01
93	T	1,2,4-Trichlorobenzene	0.916	0.896	2.2	103	0.00
94	T	Hexachlorobutadiene	0.585	0.572	2.2	101	-0.01
95	T	Naphthalene	1.061	1.049	1.1	108	-0.01
96	T	1,2,3-Trichlorobenzene	0.733	0.683	6.8	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc Contract: OPHA MOFFETT
Lab Code: EMXT Case No.: SAS No.: SDG No.: 11A027
Lab File ID: RAV108 BFB Injection Date : 01/07/11
Instrument ID: T001 BFB Injection Time : 04:35
GC Column:RTX502.2ID:0.32mm (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.50
75	30.0 - 60.0% of mass 95	45.07
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.50
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.23
175	5.0 - 9.0% of mass 174	5.32(7.2)1
176	95.0 - 101.0% of mass 174	70.60(95.1)1
177	5.0 - 9.0% of mass 176	4.48(6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1122	RAV109	01/07/11	05:07
2	MBLK4W	V001A06B	RAV113	01/07/11	07:20
3	LCS4W	V001A06L	RAV110	01/07/11	05:41
4	LCD4W	V001A06C	RAV111	01/07/11	06:14
5	SSI-GW-006DL	A027-06T	RAV114	01/07/11	07:53
6	SSI-GW-009DL	A027-09T	RAV115	01/07/11	08:26
7	SSI-GW-010DL	A027-10T	RAV116	01/07/11	08:59
8	SSI-GW-011DL	A027-11T	RAV117	01/07/11	09:31
9	SSI-D-001DL	A027-12T	RAV118	01/07/11	10:05

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: TQ01
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1475382	8.82	1303121	14.01	471461	19.10
2	MBLK4W	1366045	8.80	1200048	14.01	421701	19.10
3	LCS4W	1490023	8.82	1323622	14.01	471531	19.10
4	LCD4W	1323450	8.80	1174008	14.01	401507	19.10
5	SSI-GW-006DL	1286901	8.82	1165178	14.01	427036	19.10
6	SSI-GW-009DL	1305417	8.80	1171503	14.01	408660	19.10
7	SSI-GW-010DL	1290586	8.80	1158052	14.01	402719	19.10
8	SSI-GW-011DL	1259838	8.80	1137963	14.01	390568	19.10
9	SSI-D-001DL	1260723	8.80	1135873	14.01	397158	19.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CVO01L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	10.000	8.461	15.4	80	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	10.000	10.679	-6.8	102	0.00
5	C,T	Vinyl chloride	10.000	9.942	0.6	107	0.00
6	T	Bromomethane	10.000	11.179	-11.8	105	0.00
7	T	Chloroethane	10.000	10.219	-2.2	98	0.01
8	T	Dichlorofluoromethane	10.000	8.508	14.9	85	0.00
9	T	Trichlorofluoromethane	10.000	7.439	25.6#	72	0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	93	0.00
11	T	Acrolein	50.000	26.835	46.3#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	8.762	12.4	85	0.00
13	T	Acetone	50.000	42.592	14.8	86	0.00
14	C,T	1,1-Dichloroethene	10.000	9.566	4.3	95	0.01
15	T	tert-Butyl alcohol	50.000	37.556	24.9#	79	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.589	-5.9	103	0.01
18	T	Methyl acetate	-1.000	0.000	0.0	93	0.01
19	T	Methylene chloride	10.000	9.127	8.7	96	0.00
20	T	Carbon disulfide	10.000	9.186	8.1	83	0.02
21	T	Acrylonitrile	50.000	45.553	8.9	93	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.140	8.6	90	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.647	3.5	97	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.625	3.8	95	0.00
25	T	Vinyl acetate	10.000	5.799	42.0#	56	0.00
26	P,T	1,1-Dichloroethane	10.000	10.083	-0.8	100	0.00
27	T	2-Butanol	-1.000	0.000	0.0	93	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.533	4.7	94	0.00
29	T	2-Butanone	50.000	45.333	9.3	93	0.01
30	T	2,2-Dichloropropane	10.000	7.514	24.9#	76	0.01
31	T	cis-1,2-Dichloroethene	10.000	9.239	7.6	91	0.00
32	C,T	Chloroform	10.000	10.004	-0.0	100	0.00
33	T	Bromochloromethane	10.000	9.681	3.2	94	0.00
34	S	Dibromofluoromethane	10.000	10.041	-0.4	96	0.00
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.199	8.0	92	0.00
37	T	Cyclohexane	-1.000	0.000	0.0	87	0.00
38	T	1-Butanol	-1.000	0.000	0.0	80	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.619	3.8	94	0.00
40	S	1,2-Dichloroethane-d4	10.000	10.229	-2.3	100	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~105~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CVO01L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	8.722	12.8	91	0.00
43	T	Carbon tetrachloride	10.000	8.629	13.7	89	0.00
44	T	1,2-Dichloroethane	10.000	9.542	4.6	97	0.00
45	T	Benzene	10.000	9.448	5.5	97	0.00
46	T	Trichloroethene	10.000	9.934	0.7	99	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	101	0.00
48	C,T	1,2-Dichloropropane	10.000	9.823	1.8	100	0.00
49	T	1,4-Dioxane	200.000	154.483	22.8#	81	0.00
50	T	Bromodichloromethane	10.000	9.258	7.4	93	0.00
51	T	Dibromomethane	10.000	9.141	8.6	92	0.00
52	T	2-Chloroethyl vinyl ether	10.000	7.343	26.6#	76	0.00
53	T	4-Methyl-2-pentanone	50.000	43.996	12.0	92	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.255	7.4	93	0.00
55	S	Toluene-d8	10.000	10.491	-4.9	105	0.00
56	C,T	Toluene	10.000	9.498	5.0	98	0.00
57	T	Ethyl methacrylate	10.000	8.966	10.3	89	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.296	7.0	94	0.00
59	T	2-Hexanone	50.000	44.645	10.7	93	0.00
60	T	1,1,2-Trichloroethane	10.000	9.434	5.7	95	0.00
61	T	1,3-Dichloropropane	10.000	9.347	6.5	94	0.00
62	T	Tetrachloroethene	10.000	9.149	8.5	94	-0.01
63	T	Dibromochloromethane	10.000	9.157	8.4	91	0.00
64	T	1,2-Dibromoethane	10.000	8.705	13.0	87	-0.01
65	T	1-Chlorohexane	10.000	8.686	13.1	88	-0.01
66	P	Chlorobenzene	10.000	9.735	2.7	98	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.245	7.6	93	-0.01
68	C,T	Ethylbenzene	10.000	9.195	8.0	95	0.00
69	T	m-Xylene & p-Xylene	20.000	18.435	7.8	95	0.00
70	T	o-Xylene	10.000	9.487	5.1	95	0.00
71	T	Styrene	10.000	9.732	2.7	95	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	104	0.00
73	T	Isopropylbenzene	10.000	9.422	5.8	96	0.00
74	P,T	Bromoform	10.000	9.190	8.1	91	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	8.562	14.4	88	0.00
76	S	4-Bromofluorobenzene	10.000	10.637	-6.4	105	0.00
77	T	1,2,3-Trichloropropane	10.000	8.671	13.3	95	0.00
78	T	trans-1,4-Dichloro-2-butene	10.000	8.118	18.8	81	-0.01
79	T	n-Propylbenzene	10.000	9.122	8.8	92	0.00
80	T	Bromobenzene	10.000	9.347	6.5	95	0.00
81	T	1,3,5-Trimethylbenzene	10.000	9.377	6.2	95	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.327	6.7	98	0.00
83	T	4-Chlorotoluene	10.000	9.333	6.7	92	-0.01
84	T	tert-Butylbenzene	10.000	9.389	6.1	96	0.00
85	T	1,2,4-Trimethylbenzene	10.000	9.688	3.1	97	0.00
86	T	sec-Butylbenzene	10.000	9.090	9.1	93	0.00
87	T	p-Isopropyltoluene	10.000	9.186	8.1	92	0.00
88	T	1,3-Dichlorobenzene	10.000	9.355	6.4	95	0.00
89	T	1,4-Dichlorobenzene	10.000	9.505	4.9	96	0.00
90	T	n-Butylbenzene	10.000	9.005	9.9	91	0.00
91	T	1,2-Dichlorobenzene	10.000	9.587	4.1	96	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	8.819	11.8	89	0.00
93	T	1,2,4-Trichlorobenzene	10.000	9.494	5.1	97	0.00
94	T	Hexachlorobutadiene	10.000	8.721	12.8	88	-0.01
95	T	Naphthalene	10.000	9.822	1.8	104	0.00
96	T	1,2,3-Trichlorobenzene	10.000	9.149	8.5	95	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CV001L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	0.175	0.148	15.4	80	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	0.342	0.365	-6.7	102	0.00
5	C,T	Vinyl chloride	0.292	0.290	0.7	107	0.00
6	T	Bromomethane	0.217	0.243	-12.0	105	0.00
7	T	Chloroethane	0.227	0.232	-2.2	98	0.01
8	T	Dichlorofluoromethane	0.586	0.498	15.0	85	0.00
9	T	Trichlorofluoromethane	0.332	0.247	25.6#	72	0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	93	0.00
11	T	Acrolein	0.016	0.009	43.8#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.140	11.9	85	0.00
13	T	Acetone	0.039	0.034	12.8	86	0.00
14	C,T	1,1-Dichloroethene	0.460	0.440	4.3	95	0.01
15	T	tert-Butyl alcohol	0.015	0.011	26.7#	79	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.514	-6.0	103	0.01
18	T	Methyl acetate	0.000	0.000	0.0	93	0.01
19	T	Methylene chloride	0.479	0.437	8.8	96	0.00
20	T	Carbon disulfide	1.122	1.094	2.5	83	0.02
21	T	Acrylonitrile	0.052	0.048	7.7	93	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.416	8.6	90	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.498	3.5	97	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.218	3.7	95	0.00
25	T	Vinyl acetate	0.465	0.269	42.2#	56	0.00
26	P,T	1,1-Dichloroethane	0.632	0.637	-0.8	100	0.00
27	T	2-Butanol	0.000	0.000	0.0	93	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.718	4.6	94	0.00
29	T	2-Butanone	0.074	0.067	9.5	93	0.01
30	T	2,2-Dichloropropane	0.381	0.286	24.9#	76	0.01
31	T	cis-1,2-Dichloroethene	0.370	0.342	7.6	91	0.00
32	C,T	Chloroform	0.545	0.545	0.0	100	0.00
33	T	Bromochloromethane	0.274	0.265	3.3	94	0.00
34	S	Dibromofluoromethane	0.300	0.301	-0.3	96	0.00
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.364	7.8	92	0.00
37	T	Cyclohexane	0.000	0.000	0.0	87	0.00
38	T	1-Butanol	0.000	0.000	0.0	80	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.107	4.5	94	0.00
40	S	1,2-Dichloroethane-d4	0.234	0.240	-2.6	100	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~105~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CVO01L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.168	12.5	91	0.00
43	T	Carbon tetrachloride	0.378	0.326	13.8	89	0.00
44	T	1,2-Dichloroethane	0.335	0.320	4.5	97	0.00
45	T	Benzene	1.557	1.471	5.5	97	0.00
46	T	Trichloroethene	0.413	0.410	0.7	99	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	101	0.00
48	C,T	1,2-Dichloropropane	0.430	0.422	1.9	100	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	81	0.00
50	T	Bromodichloromethane	0.460	0.426	7.4	93	0.00
51	T	Dibromomethane	0.164	0.150	8.5	92	0.00
52	T	2-Chloroethyl vinyl ether	0.106	0.078	26.4#	76	0.00
53	T	4-Methyl-2-pentanone	0.220	0.194	11.8	92	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.538	7.4	93	0.00
55	S	Toluene-d8	1.303	1.366	-4.8	105	0.00
56	C,T	Toluene	1.591	1.511	5.0	98	0.00
57	T	Ethyl methacrylate	0.310	0.278	10.3	89	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.380	7.1	94	0.00
59	T	2-Hexanone	0.137	0.122	10.9	93	0.00
60	T	1,1,2-Trichloroethane	0.220	0.207	5.9	95	0.00
61	T	1,3-Dichloropropane	0.431	0.403	6.5	94	0.00
62	T	Tetrachloroethene	0.311	0.284	8.7	94	-0.01
63	T	Dibromochloromethane	0.271	0.248	8.5	91	0.00
64	T	1,2-Dibromoethane	0.216	0.188	13.0	87	-0.01
65	T	1-Chlorohexane	0.651	0.566	13.1	88	-0.01
66	P	Chlorobenzene	0.952	0.927	2.6	98	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.283	7.8	93	-0.01
68	C,T	Ethylbenzene	1.813	1.667	8.1	95	0.00
69	T	m-Xylene & p-Xylene	1.332	1.228	7.8	95	0.00
70	T	o-Xylene	1.301	1.234	5.1	95	0.00
71	T	Styrene	0.980	0.954	2.7	95	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	104	0.00
73	T	Isopropylbenzene	4.392	4.138	5.8	96	0.00
74	P,T	Bromoform	0.370	0.340	8.1	91	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.613	14.4	88	0.00
76	S	4-Bromofluorobenzene	1.134	1.206	-6.3	105	0.00
77	T	1,2,3-Trichloropropane	0.180	0.156	13.3	95	0.00
78	T	trans-1,4-Dichloro-2-butene	0.185	0.150	18.9	81	-0.01
79	T	n-Propylbenzene	5.832	5.320	8.8	92	0.00
80	T	Bromobenzene	0.918	0.858	6.5	95	0.00
81	T	1,3,5-Trimethylbenzene	3.456	3.241	6.2	95	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.311	6.7	98	0.00
83	T	4-Chlorotoluene	3.056	2.852	6.7	92	-0.01
84	T	tert-Butylbenzene	0.785	0.737	6.1	96	0.00
85	T	1,2,4-Trimethylbenzene	3.415	3.308	3.1	97	0.00
86	T	sec-Butylbenzene	4.814	4.376	9.1	93	0.00
87	T	p-Isopropyltoluene	3.675	3.376	8.1	92	0.00
88	T	1,3-Dichlorobenzene	1.854	1.735	6.4	95	0.00
89	T	1,4-Dichlorobenzene	1.782	1.694	4.9	96	0.00
90	T	n-Butylbenzene	3.853	3.470	9.9	91	0.00
91	T	1,2-Dichlorobenzene	1.506	1.444	4.1	96	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.079	11.2	89	0.00
93	T	1,2,4-Trichlorobenzene	0.916	0.870	5.0	97	0.00
94	T	Hexachlorobutadiene	0.585	0.510	12.8	88	-0.01
95	T	Naphthalene	1.061	1.042	1.8	104	0.00
96	T	1,2,3-Trichlorobenzene	0.733	0.670	8.6	95	-0.01

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV204
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/11/11
BFB Injection Time : 10:21
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.33
75	30.0 - 60.0% of mass 95	46.61
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	73.61
175	5.0 - 9.0% of mass 174	5.29(7.2)1
176	95.0 - 101.0% of mass 174	71.73(97.4)1
177	5.0 - 9.0% of mass 176	4.52(6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1124	RAV205	01/11/11	10:54
2	MBLK5W	V001A12B	RAV209	01/11/11	13:12
3	LCS5W	V001A12L	RAV206	01/11/11	11:33
4	LCD5W	V001A12C	RAV207	01/11/11	12:05
5	SSI-GW-008	A027-08N	RAV210	01/11/11	13:43
6	SSI-GW-008MS	A027-08G	RAV211	01/11/11	14:16
7	SSI-GW-008MSD	A027-08H	RAV212	01/11/11	14:49

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1359668	8.79	1185115	14.00	415479	19.09
2	MBLK5W	1389333	8.79	1210015	14.00	405564	19.09
3	LCS5W	1374899	8.79	1197277	14.00	413278	19.09
4	LCD5W	1373164	8.80	1207598	14.00	425183	19.09
5	SSI-GW-008	1318643	8.80	1150854	14.00	388981	19.09
6	SSI-GW-008MS	1312380	8.80	1141372	14.00	398012	19.09
7	SSI-GW-008MSD	1279978	8.79	1115847	14.00	401143	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	94	-0.03
2	T	Dichlorodifluoromethane	10.000	11.720	-17.2	102	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	92	-0.01
4	P,T	Chloromethane	10.000	12.042	-20.4#	106	-0.01
5	C,T	Vinyl chloride	10.000	11.745	-17.4	117	-0.01
6	T	Bromomethane	10.000	12.391	-23.9#	107	-0.01
7	T	Chloroethane	10.000	11.486	-14.9	102	0.00
8	T	Dichlorofluoromethane	10.000	10.256	-2.6	94	-0.01
9	T	Trichlorofluoromethane	10.000	9.822	1.8	88	-0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	90	-0.01
11	T	Acrolein	50.000	33.987	32.0#	62	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.468	-4.7	94	-0.01
13	T	Acetone	50.000	47.795	4.4	89	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.193	-1.9	94	0.00
15	T	tert-Butyl alcohol	50.000	41.716	16.6	81	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	9.296	7.0	84	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	95	-0.01
19	T	Methylene chloride	10.000	9.452	5.5	92	-0.01
20	T	Carbon disulfide	10.000	8.815	11.9	74	0.00
21	T	Acrylonitrile	50.000	51.513	-3.0	96	-0.01
22	T	tert-Butyl methyl ether (MT	10.000	9.631	3.7	88	-0.01
23	T	trans-1,2-Dichloroethene	10.000	10.230	-2.3	95	-0.01
24	T	Isopropyl ether (DIPE)	10.000	10.314	-3.1	94	-0.01
25	T	Vinyl acetate	10.000	8.680	13.2	78	-0.01
26	P,T	1,1-Dichloroethane	10.000	10.427	-4.3	95	-0.01
27	T	2-Butanol	-1.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	10.000	9.746	2.5	88	-0.01
29	T	2-Butanone	50.000	50.719	-1.4	96	-0.01
30	T	2,2-Dichloropropane	10.000	10.729	-7.3	100	-0.01
31	T	cis-1,2-Dichloroethene	10.000	10.341	-3.4	94	-0.03
32	C,T	Chloroform	10.000	10.433	-4.3	96	-0.01
33	T	Bromochloromethane	10.000	10.288	-2.9	92	-0.01
34	S	Dibromofluoromethane	10.000	9.682	3.2	86	-0.03
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	10.528	-5.3	97	-0.03
37	T	Cyclohexane	-1.000	0.000	0.0	92	-0.03
38	T	1-Butanol	-1.000	0.000	0.0	88	-0.03
39	T	tert-Amyl methyl ether (TAM	10.000	10.038	-0.4	90	-0.03
40	S	1,2-Dichloroethane-d4	10.000	9.754	2.5	87	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~95~~	~~-0.03~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	10.175	-1.8	96	-0.01
43	T	Carbon tetrachloride	10.000	10.390	-3.9	98	-0.03
44	T	1,2-Dichloroethane	10.000	10.246	-2.5	94	-0.03
45	T	Benzene	10.000	10.485	-4.8	98	-0.01
46	T	Trichloroethene	10.000	10.545	-5.4	96	-0.01
47	T	Methylcyclohexane	-1.000	0.000	0.0	80	-0.01
48	C,T	1,2-Dichloropropane	10.000	10.593	-5.9	98	-0.01
49	T	1,4-Dioxane	200.000	176.486	11.8	85	-0.03
50	T	Bromodichloromethane	10.000	10.296	-3.0	94	-0.03
51	T	Dibromomethane	10.000	9.677	3.2	89	-0.03
52	T	2-Chloroethyl vinyl ether	10.000	9.296	7.0	87	-0.01
53	T	4-Methyl-2-pentanone	50.000	50.086	-0.2	95	-0.01
54	T	cis-1,3-Dichloropropene	10.000	10.573	-5.7	97	-0.01
55	S	Toluene-d8	10.000	9.964	0.4	91	-0.03
56	C,T	Toluene	10.000	10.615	-6.2	99	-0.03
57	T	Ethyl methacrylate	10.000	10.181	-1.8	92	-0.01
58	T	trans-1,3-Dichloropropene	10.000	10.486	-4.9	96	-0.01
59	T	2-Hexanone	50.000	50.127	-0.3	95	-0.01
60	T	1,1,2-Trichloroethane	10.000	10.572	-5.7	97	-0.03
61	T	1,3-Dichloropropane	10.000	10.452	-4.5	96	-0.01
62	T	Tetrachloroethene	10.000	10.420	-4.2	97	-0.03
63	T	Dibromochloromethane	10.000	10.307	-3.1	93	-0.03
64	T	1,2-Dibromoethane	10.000	9.892	1.1	90	-0.03
65	T	1-Chlorohexane	10.000	10.546	-5.5	97	-0.03
66	P	Chlorobenzene	10.000	10.772	-7.7	99	-0.01
67	T	1,1,1,2-Tetrachloroethane	10.000	10.564	-5.6	97	-0.03
68	C,T	Ethylbenzene	10.000	10.584	-5.8	100	-0.03
69	T	m-Xylene & p-Xylene	20.000	21.420	-7.1	100	-0.01
70	T	o-Xylene	10.000	10.802	-8.0	98	-0.03
71	T	Styrene	10.000	10.931	-9.3	97	-0.03
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	92	-0.01
73	T	Isopropylbenzene	10.000	11.164	-11.6	100	-0.01
74	P,T	Bromoform	10.000	10.369	-3.7	90	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	10.000	10.265	-2.7	93	-0.01
76	S	4-Bromofluorobenzene	10.000	10.546	-5.5	91	-0.03
77	T	1,2,3-Trichloropropane	10.000	9.804	2.0	95	-0.03
78	T	trans-1,4-Dichloro-2-butene	10.000	10.903	-9.0	96	-0.03
79	T	n-Propylbenzene	10.000	11.095	-11.0	99	-0.03
80	T	Bromobenzene	10.000	10.587	-5.9	95	-0.03
81	T	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	100	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	11.571	-15.7	107	-0.03
83	T	4-Chlorotoluene	10.000	10.400	-4.0	90	-0.03
84	T	tert-Butylbenzene	10.000	11.457	-14.6	103	-0.03
85	T	1,2,4-Trimethylbenzene	10.000	11.034	-10.3	97	-0.03
86	T	sec-Butylbenzene	10.000	11.198	-12.0	101	-0.01
87	T	p-Isopropyltoluene	10.000	11.036	-10.4	97	-0.01
88	T	1,3-Dichlorobenzene	10.000	10.941	-9.4	97	-0.03
89	T	1,4-Dichlorobenzene	10.000	10.993	-9.9	98	-0.01
90	T	n-Butylbenzene	10.000	11.029	-10.3	98	-0.03
91	T	1,2-Dichlorobenzene	10.000	10.913	-9.1	97	-0.01
92	T	1,2-Dibromo-3-chloropropane	10.000	10.145	-1.4	90	-0.01
93	T	1,2,4-Trichlorobenzene	10.000	10.576	-5.8	95	-0.01
94	T	Hexachlorobutadiene	10.000	10.638	-6.4	94	-0.03
95	T	Naphthalene	10.000	11.166	-11.7	104	-0.03
96	T	1,2,3-Trichlorobenzene	10.000	10.120	-1.2	93	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	-0.03
2	T	Dichlorodifluoromethane	0.175	0.205	-17.1	102	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	92	-0.01
4	P,T	Chloromethane	0.342	0.412	-20.5#	106	-0.01
5	C,T	Vinyl chloride	0.292	0.343	-17.5	117	-0.01
6	T	Bromomethane	0.217	0.269	-24.0#	107	-0.01
7	T	Chloroethane	0.227	0.260	-14.5	102	0.00
8	T	Dichlorofluoromethane	0.586	0.601	-2.6	94	-0.01
9	T	Trichlorofluoromethane	0.332	0.327	1.5	88	-0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	90	-0.01
11	T	Acrolein	0.016	0.011	31.3#	62	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.167	-5.0	94	-0.01
13	T	Acetone	0.039	0.038	2.6	89	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.469	-2.0	94	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	81	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.451	7.0	84	0.00
18	T	Methyl acetate	0.000	0.000	0.0	95	-0.01
19	T	Methylene chloride	0.479	0.453	5.4	92	-0.01
20	T	Carbon disulfide	1.122	1.049	6.5	74	0.00
21	T	Acrylonitrile	0.052	0.054	-3.8	96	-0.01
22	T	tert-Butyl methyl ether (MT	0.455	0.438	3.7	88	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.528	-2.3	95	-0.01
24	T	Isopropyl ether (DIPE)	1.265	1.305	-3.2	94	-0.01
25	T	Vinyl acetate	0.465	0.403	13.3	78	-0.01
26	P,T	1,1-Dichloroethane	0.632	0.659	-4.3	95	-0.01
27	T	2-Butanol	0.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	0.753	0.734	2.5	88	-0.01
29	T	2-Butanone	0.074	0.075	-1.4	96	-0.01
30	T	2,2-Dichloropropane	0.381	0.408	-7.1	100	-0.01
31	T	cis-1,2-Dichloroethene	0.370	0.383	-3.5	94	-0.03
32	C,T	Chloroform	0.545	0.569	-4.4	96	-0.01
33	T	Bromochloromethane	0.274	0.281	-2.6	92	-0.01
34	S	Dibromofluoromethane	0.300	0.290	3.3	86	-0.03
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.416	-5.3	97	-0.03
37	T	Cyclohexane	0.000	0.000	0.0	92	-0.03
38	T	1-Butanol	0.000	0.000	0.0	88	-0.03
39	T	tert-Amyl methyl ether (TAM	0.112	0.112	0.0	90	-0.03
40	S	1,2-Dichloroethane-d4	0.234	0.229	2.1	87	-0.01
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	95	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.195	-1.6	96	-0.01
43	T	Carbon tetrachloride	0.378	0.393	-4.0	98	-0.03
44	T	1,2-Dichloroethane	0.335	0.343	-2.4	94	-0.03
45	T	Benzene	1.557	1.632	-4.8	98	-0.01
46	T	Trichloroethene	0.413	0.435	-5.3	96	-0.01
47	T	Methylcyclohexane	0.000	0.000	0.0	80	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.455	-5.8	98	-0.01
49	T	1,4-Dioxane	0.001	0.001	0.0	85	-0.03
50	T	Bromodichloromethane	0.460	0.473	-2.8	94	-0.03
51	T	Dibromomethane	0.164	0.159	3.0	89	-0.03
52	T	2-Chloroethyl vinyl ether	0.106	0.099	6.6	87	-0.01
53	T	4-Methyl-2-pentanone	0.220	0.221	-0.5	95	-0.01
54	T	cis-1,3-Dichloropropene	0.581	0.614	-5.7	97	-0.01
55	S	Toluene-d8	1.303	1.298	0.4	91	-0.03
56	C,T	Toluene	1.591	1.688	-6.1	99	-0.03
57	T	Ethyl methacrylate	0.310	0.316	-1.9	92	-0.01
58	T	trans-1,3-Dichloropropene	0.409	0.429	-4.9	96	-0.01
59	T	2-Hexanone	0.137	0.137	0.0	95	-0.01
60	T	1,1,2-Trichloroethane	0.220	0.232	-5.5	97	-0.03
61	T	1,3-Dichloropropane	0.431	0.451	-4.6	96	-0.01
62	T	Tetrachloroethene	0.311	0.324	-4.2	97	-0.03
63	T	Dibromochloromethane	0.271	0.279	-3.0	93	-0.03
64	T	1,2-Dibromoethane	0.216	0.213	1.4	90	-0.03
65	T	1-Chlorohexane	0.651	0.687	-5.5	97	-0.03
66	P	Chlorobenzene	0.952	1.025	-7.7	99	-0.01
67	T	1,1,1,2-Tetrachloroethane	0.307	0.324	-5.5	97	-0.03
68	C,T	Ethylbenzene	1.813	1.919	-5.8	100	-0.03
69	T	m-Xylene & p-Xylene	1.332	1.427	-7.1	100	-0.01
70	T	o-Xylene	1.301	1.405	-8.0	98	-0.03
71	T	Styrene	0.980	1.071	-9.3	97	-0.03
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	92	-0.01
73	T	Isopropylbenzene	4.392	4.904	-11.7	100	-0.01
74	P,T	Bromoform	0.370	0.384	-3.8	90	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.735	-2.7	93	-0.01
76	S	4-Bromofluorobenzene	1.134	1.196	-5.5	91	-0.03
77	T	1,2,3-Trichloropropane	0.180	0.177	1.7	95	-0.03
78	T	trans-1,4-Dichloro-2-butene	0.185	0.202	-9.2	96	-0.03
79	T	n-Propylbenzene	5.832	6.471	-11.0	99	-0.03
80	T	Bromobenzene	0.918	0.972	-5.9	95	-0.03
81	T	1,3,5-Trimethylbenzene	3.456	3.860	-11.7	100	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	4.107	-15.7	107	-0.03
83	T	4-Chlorotoluene	3.056	3.178	-4.0	90	-0.03
84	T	tert-Butylbenzene	0.785	0.899	-14.5	103	-0.03
85	T	1,2,4-Trimethylbenzene	3.415	3.768	-10.3	97	-0.03
86	T	sec-Butylbenzene	4.814	5.391	-12.0	101	-0.01
87	T	p-Isopropyltoluene	3.675	4.055	-10.3	97	-0.01
88	T	1,3-Dichlorobenzene	1.854	2.029	-9.4	97	-0.03
89	T	1,4-Dichlorobenzene	1.782	1.959	-9.9	98	-0.01
90	T	n-Butylbenzene	3.853	4.249	-10.3	98	-0.03
91	T	1,2-Dichlorobenzene	1.506	1.644	-9.2	97	-0.01
92	T	1,2-Dibromo-3-chloropropane	0.089	0.091	-2.2	90	-0.01
93	T	1,2,4-Trichlorobenzene	0.916	0.969	-5.8	95	-0.01
94	T	Hexachlorobutadiene	0.585	0.622	-6.3	94	-0.03
95	T	Naphthalene	1.061	1.185	-11.7	104	-0.03
96	T	1,2,3-Trichlorobenzene	0.733	0.742	-1.2	93	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

RAW DATA
VOLATILE ORGANICS

LABORATORY REPORT FOR

TETRA TECH EMI

OPHA MOFFETT

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 11A027

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11A027

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of fifteen (15) water samples were received on 01/05/11 for Volatile Organics by GC/MS analysis, Method 5030B/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Samples were analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, five (5) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
Five (5) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries were within QC limits except for one result RPD as qualified with [*] in VO01A03L/C summary form. Check QC summary form for details.
Percent recoveries for VO01A04L/C were all within QC limits.
Percent recoveries for VO01A05X/C were all within QC limits.
Percent recoveries for VO01A06L/C were all within QC limits.
Percent recoveries for VO01A12L/C were all within QC limits.

Matrix QC Sample
A set of MS/MSD was analyzed with the samples in this SDG.
Percent recoveries for A027-08G/H were within project QC limits.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11A027
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001A03B	1	NA	01/05/1110:22	01/05/1110:22	RAV048	RLV333	V001A03	Method Blank
LCS1W	V001A03L	1	NA	01/05/1108:44	01/05/1108:44	RAV045	RLV333	V001A03	Lab Control Sample (LCS)
LCD1W	V001A03C	1	NA	01/05/1109:17	01/05/1109:17	RAV046	RLV333	V001A03	LCS Duplicate
SSI-TB-002	A027-15	1	NA	01/05/1114:08	01/05/1114:08	RAV055	RLV333	V001A03	Field Sample
SSI-GW-007DL	A027-07T	50	NA	01/05/1114:40	01/05/1114:40	RAV056	RLV333	V001A03	Diluted Sample
SSI-GW-002	A027-02	1	NA	01/05/1115:13	01/05/1115:13	RAV057	RLV333	V001A03	Field Sample
MBLK2W	V001A04B	1	NA	01/05/1122:42	01/05/1122:42	RAV071	RLV333	V001A04	Method Blank
LCS2W	V001A04L	1	NA	01/05/1121:06	01/05/1121:06	RAV068	RLV333	V001A04	Lab Control Sample (LCS)
LCD2W	V001A04C	1	NA	01/05/1121:40	01/05/1121:40	RAV069	RLV333	V001A04	LCS Duplicate
SSI-GW-009	A027-09	1	NA	01/05/1123:14	01/05/1123:14	RAV072	RLV333	V001A04	Field Sample
SSI-GW-010	A027-10	1	NA	01/05/1123:47	01/05/1123:47	RAV073	RLV333	V001A04	Field Sample
SSI-GW-011	A027-11	1	NA	01/06/1100:19	01/06/1100:19	RAV074	RLV333	V001A04	Field Sample
SSI-D-D01	A027-12	1	NA	01/06/1100:51	01/06/1100:51	RAV075	RLV333	V001A04	Field Sample
SSI-GW-001	A027-01	1	NA	01/06/1102:29	01/06/1102:29	RAV078	RLV333	V001A04	Field Sample
MBLK3W	V001A05B	1	NA	01/06/1118:44	01/06/1118:44	RAV090	RLV333	V001A05	Method Blank
LCS3W	V001A05X	1	NA	01/06/1117:39	01/06/1117:39	RAV088	RLV333	V001A05	Lab Control Sample (LCS)
LCD3W	V001A05C	1	NA	01/06/1117:07	01/06/1117:07	RAV087	RLV333	V001A05	LCS Duplicate
SSI-GW-005	A027-05R	1	NA	01/06/1119:17	01/06/1119:17	RAV091	RLV333	V001A05	Field Sample
SSI-ER-001	A027-13R	1	NA	01/06/1119:49	01/06/1119:49	RAV092	RLV333	V001A05	Field Sample
SSI-SWB-001	A027-14R	1	NA	01/06/1120:22	01/06/1120:22	RAV093	RLV333	V001A05	Field Sample
SSI-GW-001DL	A027-01T	10	NA	01/06/1122:33	01/06/1122:33	RAV097	RLV333	V001A05	Diluted Sample
SSI-GW-002DL	A027-02T	50	NA	01/06/1123:07	01/06/1123:07	RAV098	RLV333	V001A05	Diluted Sample
SSI-GW-003DL	A027-03T	10	NA	01/06/1123:39	01/06/1123:39	RAV099	RLV333	V001A05	Diluted Sample
SSI-GW-004DL	A027-04T	10	NA	01/07/1100:12	01/07/1100:12	RAV100	RLV333	V001A05	Diluted Sample
SSI-GW-003	A027-03R	1	NA	01/07/1100:44	01/07/1100:44	RAV101	RLV333	V001A05	Field Sample
SSI-GW-007	A027-07	1	NA	01/07/1101:17	01/07/1101:17	RAV102	RLV333	V001A05	Field Sample
SSI-GW-004	A027-04R	1	NA	01/07/1102:22	01/07/1102:22	RAV104	RLV333	V001A05	Field Sample
SSI-GW-006	A027-06R	1	NA	01/07/1102:55	01/07/1102:55	RAV105	RLV333	V001A05	Field Sample
MBLK4W	V001A06B	1	NA	01/07/1107:20	01/07/1107:20	RAV113	RLV333	V001A06	Method Blank
LCS4W	V001A06L	1	NA	01/07/1105:41	01/07/1105:41	RAV110	RLV333	V001A06	Lab Control Sample (LCS)
LCD4W	V001A06C	1	NA	01/07/1106:14	01/07/1106:14	RAV111	RLV333	V001A06	LCS Duplicate
SSI-GW-006DL	A027-06T	50	NA	01/07/1107:53	01/07/1107:53	RAV114	RLV333	V001A06	Diluted Sample
SSI-GW-009DL	A027-09T	25	NA	01/07/1108:26	01/07/1108:26	RAV115	RLV333	V001A06	Diluted Sample
SSI-GW-010DL	A027-10T	25	NA	01/07/1108:59	01/07/1108:59	RAV116	RLV333	V001A06	Diluted Sample
SSI-GW-011DL	A027-11T	10	NA	01/07/1109:31	01/07/1109:31	RAV117	RLV333	V001A06	Diluted Sample
SSI-D-001DL	A027-12T	10	NA	01/07/1110:05	01/07/1110:05	RAV118	RLV333	V001A06	Diluted Sample
MBLK5W	V001A12B	1	NA	01/11/1113:12	01/11/1113:12	RAV209	RLV333	V001A12	Method Blank
LCS5W	V001A12L	1	NA	01/11/1111:33	01/11/1111:33	RAV206	RLV333	V001A12	Lab Control Sample (LCS)
LCD5W	V001A12C	1	NA	01/11/1112:05	01/11/1112:05	RAV207	RLV333	V001A12	LCS Duplicate
SSI-GW-008	A027-08N	1	NA	01/11/1113:43	01/11/1113:43	RAV210	RLV333	V001A12	Field Sample
SSI-GW-008MS	A027-08G	1	NA	01/11/1114:16	01/11/1114:16	RAV211	RLV333	V001A12	Matrix Spike Sample (MS)
SSI-GW-008MSD	A027-08H	1	NA	01/11/1114:49	01/11/1114:49	RAV212	RLV333	V001A12	MS Duplicate (MSD)

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 02:29
Sample ID:	SSI-GW-001	Date Analyzed:	01/06/11 02:29
Lab Samp ID:	A027-01	Dilution Factor:	1
Lab File ID:	RAV078	Matrix	: WATER
Ext Btch ID:	V001A04	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.90J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	7.4	1.0	0.20
TRICHLOROETHENE	110E	1.0	0.20
VINYL CHLORIDE	1.2	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.89	10.00	98.9	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	9.89	10.00	98.9	85-120
DIBROMOFLUOROMETHANE	9.94	10.00	99.4	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV078.D
Acq On : 6 Jan 2011 2:29 am
Sample : 11A027-01 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:41 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1342086	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1180727	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	399569	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	399582	9.94	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.40%	
40) 1,2-Dichloroethane-d4	8.20	65	310964	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.90%	
55) Toluene-d8	11.30	98	1520539	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.90%	
76) 4-Bromofluorobenzene	16.30	95	487907	10.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	107.70%	
Target Compounds						Qvalue
5) Vinyl chloride	2.68	62	47800	1.22	ug/l	100
14) 1,1-Dichloroethene	4.39	61	55788	0.90	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	509755	7.36	ug/l	100
31) cis-1,2-Dichloroethene	6.91	96	6832105	137.43	ug/l	92
46) Trichloroethene	9.32	130	5206619	106.82	ug/l	100

(#) = qualifier out of range (m) = manual integration

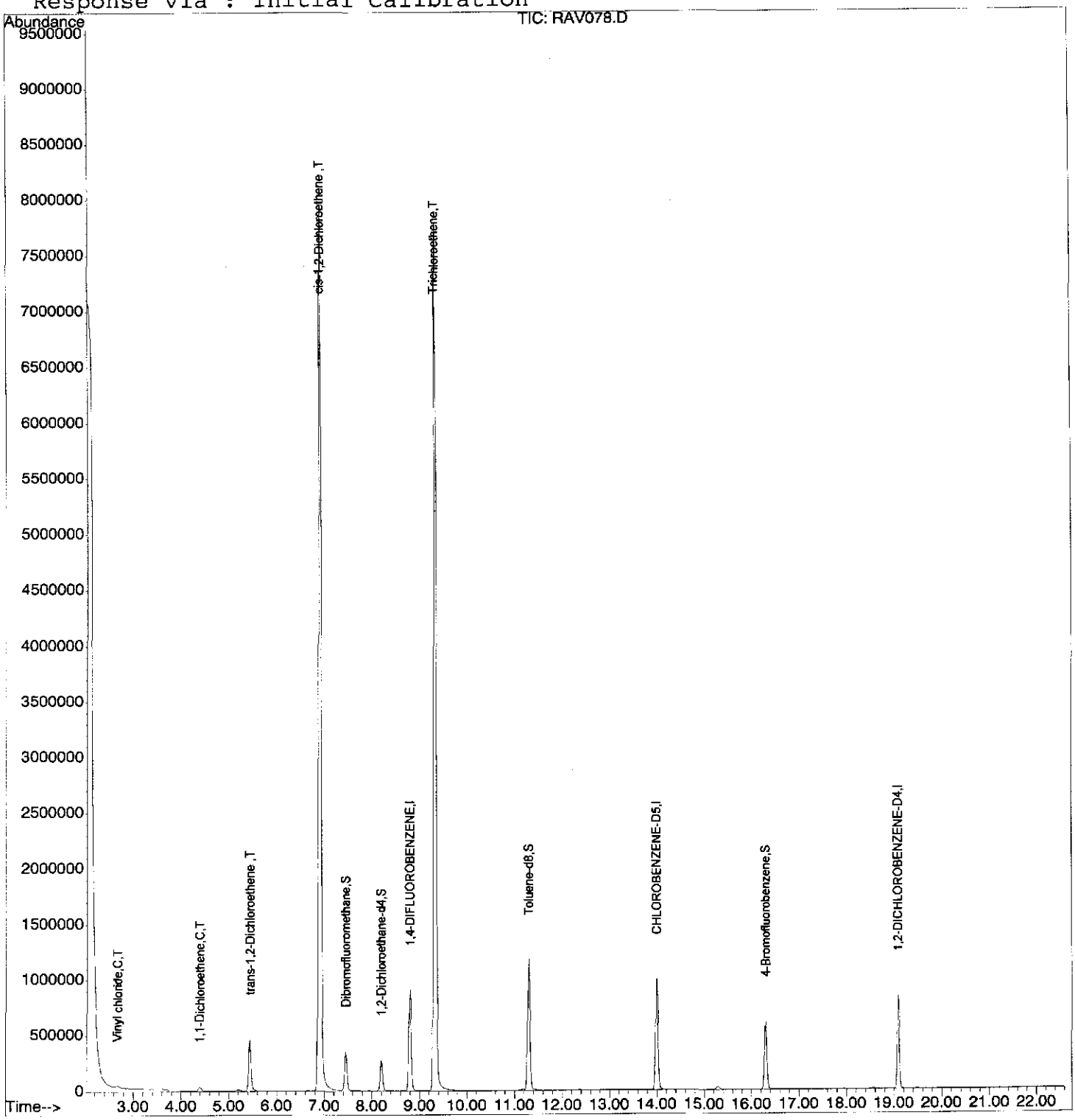
Quantitation Report

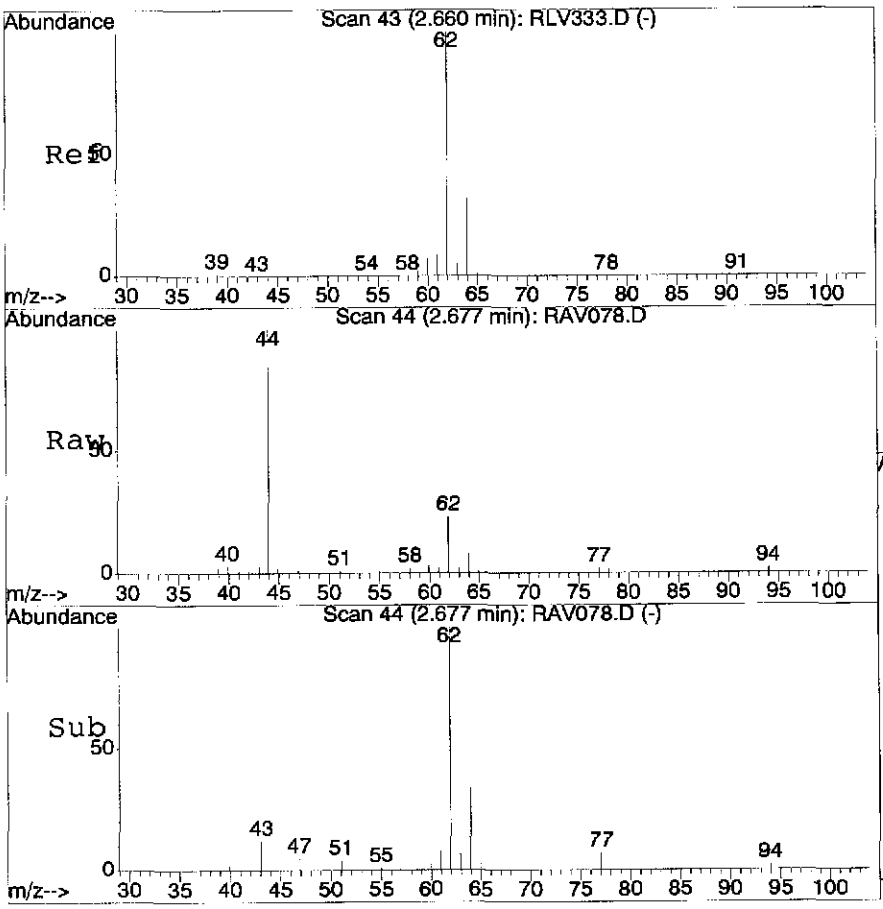
Data File : D:\HPCHEM\1\DATA\11A05\RAV078.D
Acq On : 6 Jan 2011 2:29 am
Sample : 11A027-01 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:41 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

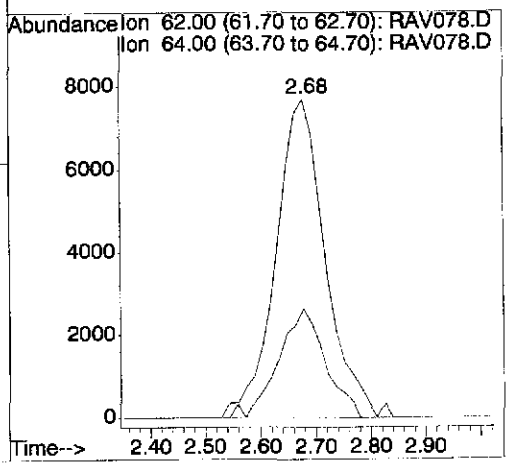


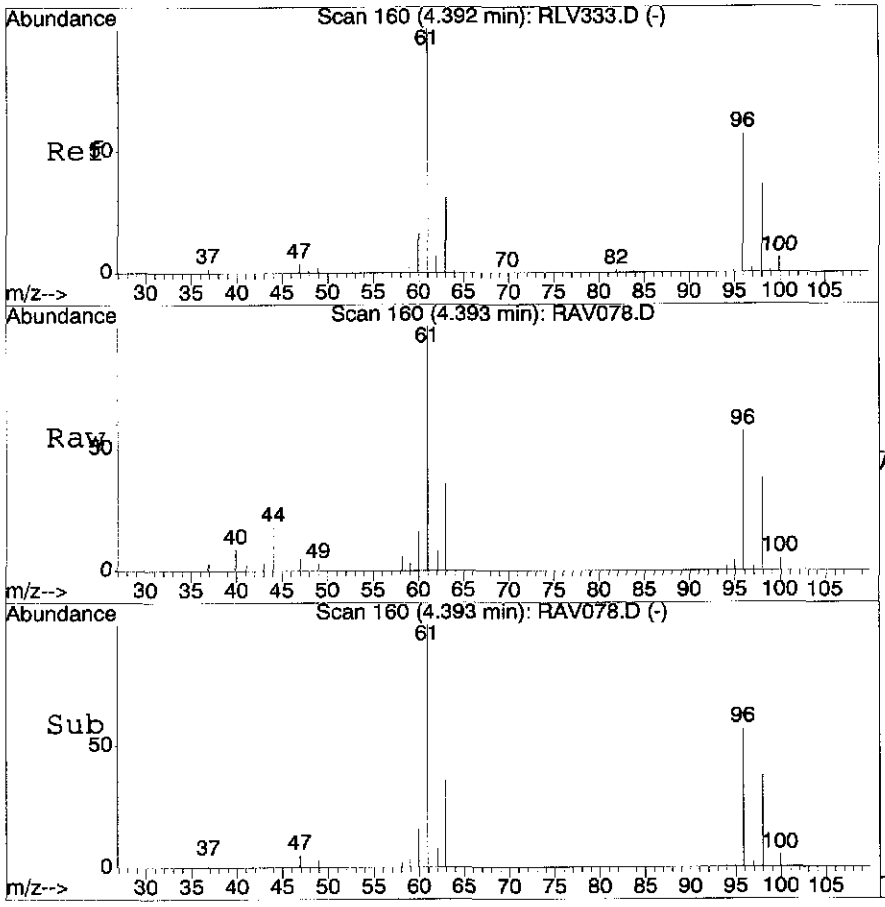


#5
Vinyl chloride
Concen: 1.22 ug/l
RT: 2.68 min Scan# 44
Delta R.T. 0.02 min
Lab File: RAV078.D
Acq: 6 Jan 2011 2:29 am

Tgt Ion: 62 Resp: 47800

Ion	Ratio	Lower	Upper
62	100		
64	32.2	2.5	62.5

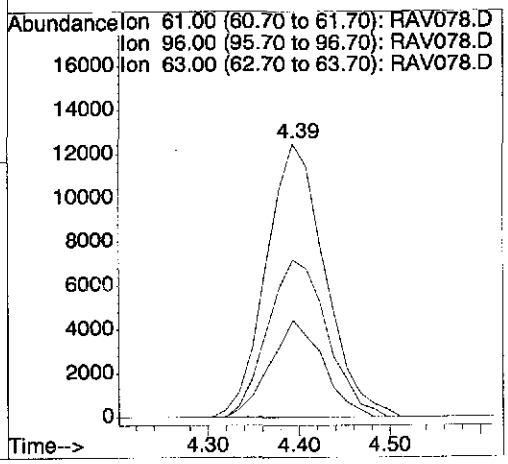


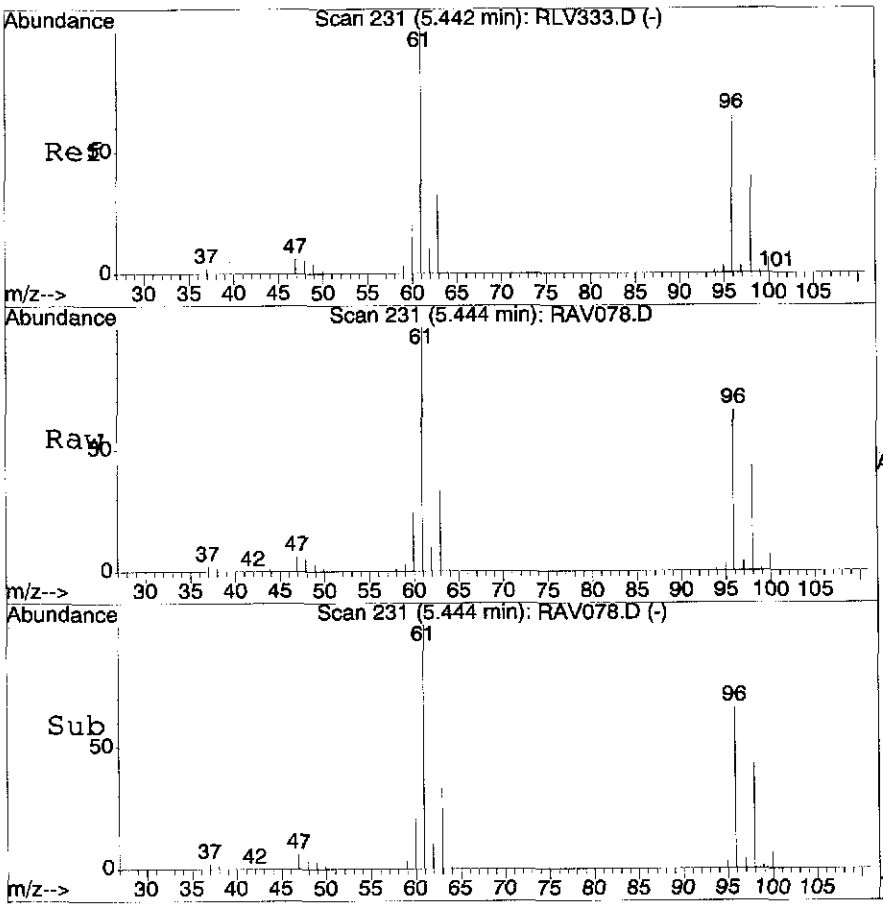


#14
1,1-Dichloroethene
Concen: 0.90 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV078.D
Acq: 6 Jan 2011 2:29 am

Tgt Ion: 61 Resp: 55788

Ion	Ratio	Lower	Upper
61	100		
96	58.5	27.7	87.7
63	32.2	2.0	62.0

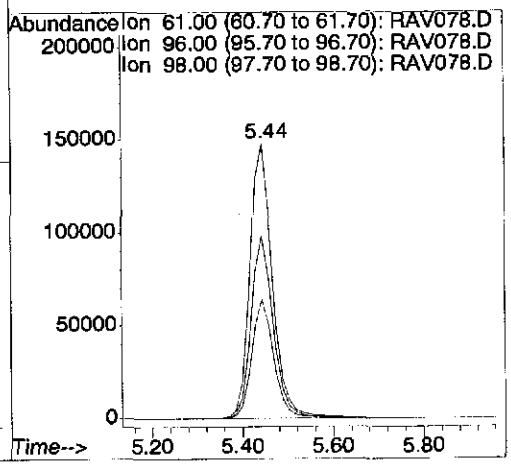


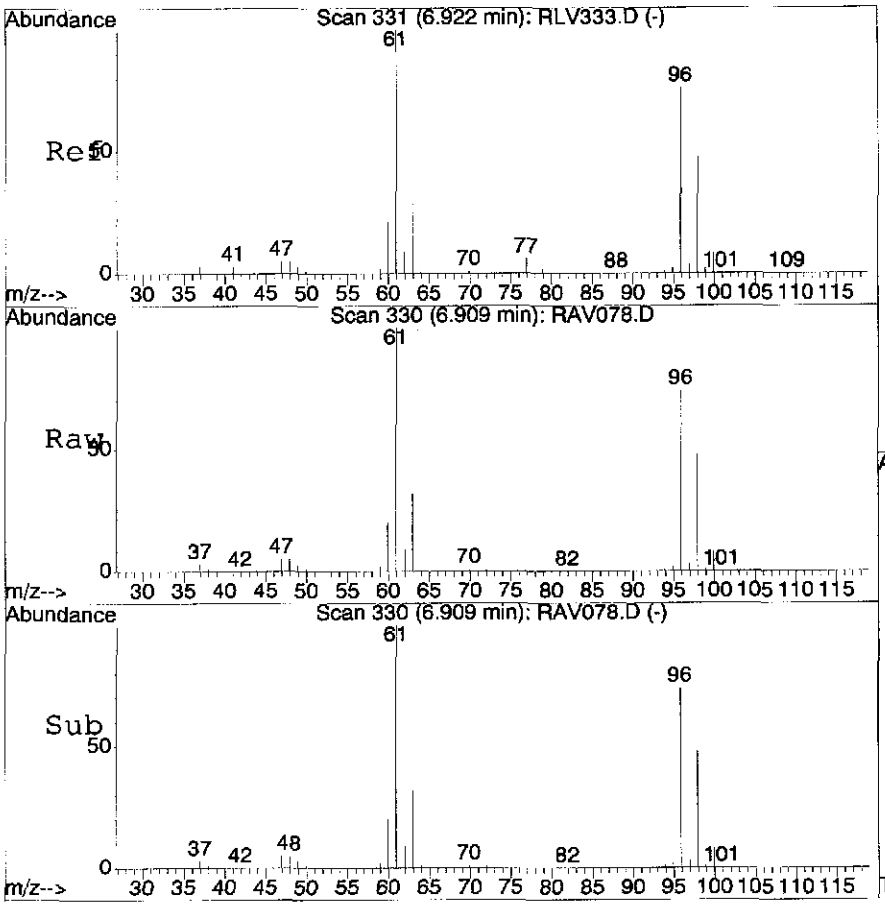


#23
trans-1,2-Dichloroethene
Concen: 7.36 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV078.D
Acq: 6 Jan 2011 2:29 am

Tgt Ion: 61 Resp: 509755

Ion	Ratio	Lower	Upper
61	100		
96	65.9	36.0	96.0
98	42.2	11.6	71.6

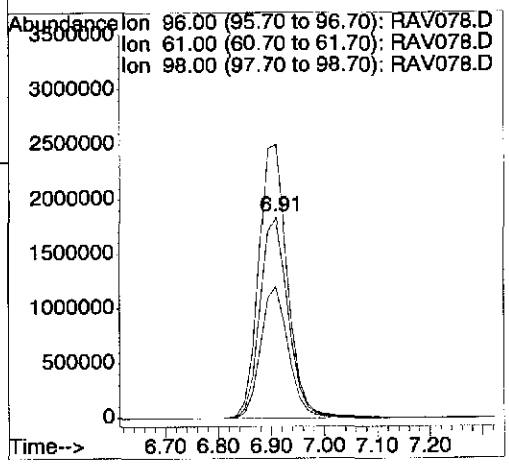


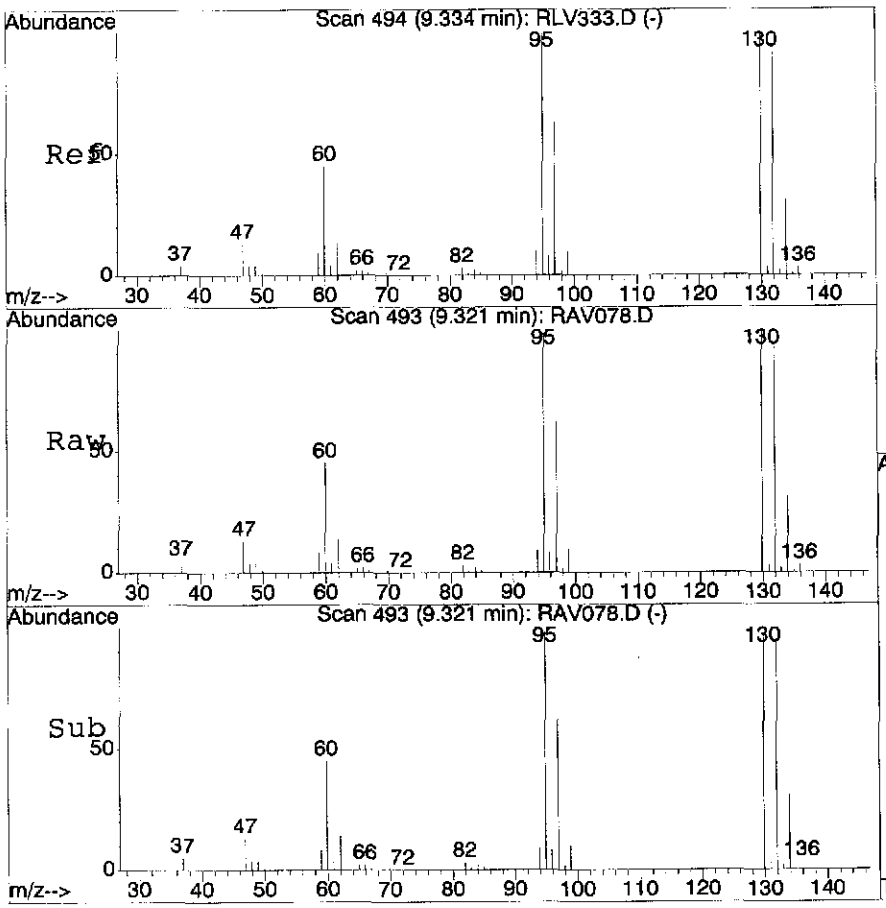


#31
cis-1,2-Dichloroethene
Concen: 137.43 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV078.D
Acq: 6 Jan 2011 2:29 am

Tgt Ion: 96 Resp: 6832105

Ion	Ratio	Lower	Upper
96	100		
61	138.9	123.3	183.3
98	64.8	33.4	93.4

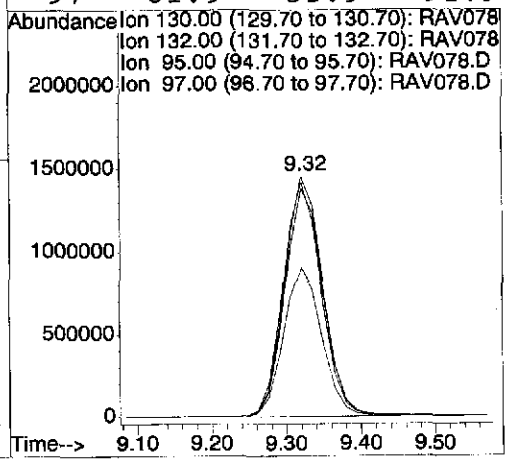




#46
Trichloroethene
Concen: 106.82 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV078.D
Acq: 6 Jan 2011 2:29 am

Tgt Ion:130 Resp: 5206619

Ion	Ratio	Lower	Upper
130	100		
132	94.8	64.2	124.2
95	97.3	67.2	127.2
97	61.9	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/06/11 22:33
Sample ID: SSI-GW-001DL	Date Analyzed: 01/06/11 22:33
Lab Samp ID: AD27-01T	Dilution Factor: 10
Lab File ID: RAV097	Matrix : WATER
Ext Btch ID: VO01A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	150	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	7.3J	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	107	100.0	107	75-120
TOLUENE-D8	97.7	100.0	97.7	85-120
DIBROMOFLUOROMETHANE	100	100.0	100	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV097.D
Acq On : 6 Jan 2011 10:33 pm
Sample : 11A027-01T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:16 2011

Vial: 15
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1346058	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1197693	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	412835	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	404153	10.02	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.20%	
40) 1,2-Dichloroethane-d4	8.21	65	320855	10.17	ug/l	0.00
Spiked Amount 10.000			Recovery	=	101.70%	
55) Toluene-d8	11.30	98	1523856	9.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.70%	
76) 4-Bromofluorobenzene	16.31	95	503204	10.75	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	107.50%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.45	61	50842	0.73	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	726156	14.56	ug/l	91
46) Trichloroethene	9.32	130	520567	10.53	ug/l	100

(#) = qualifier out of range (m) = manual integration

2012

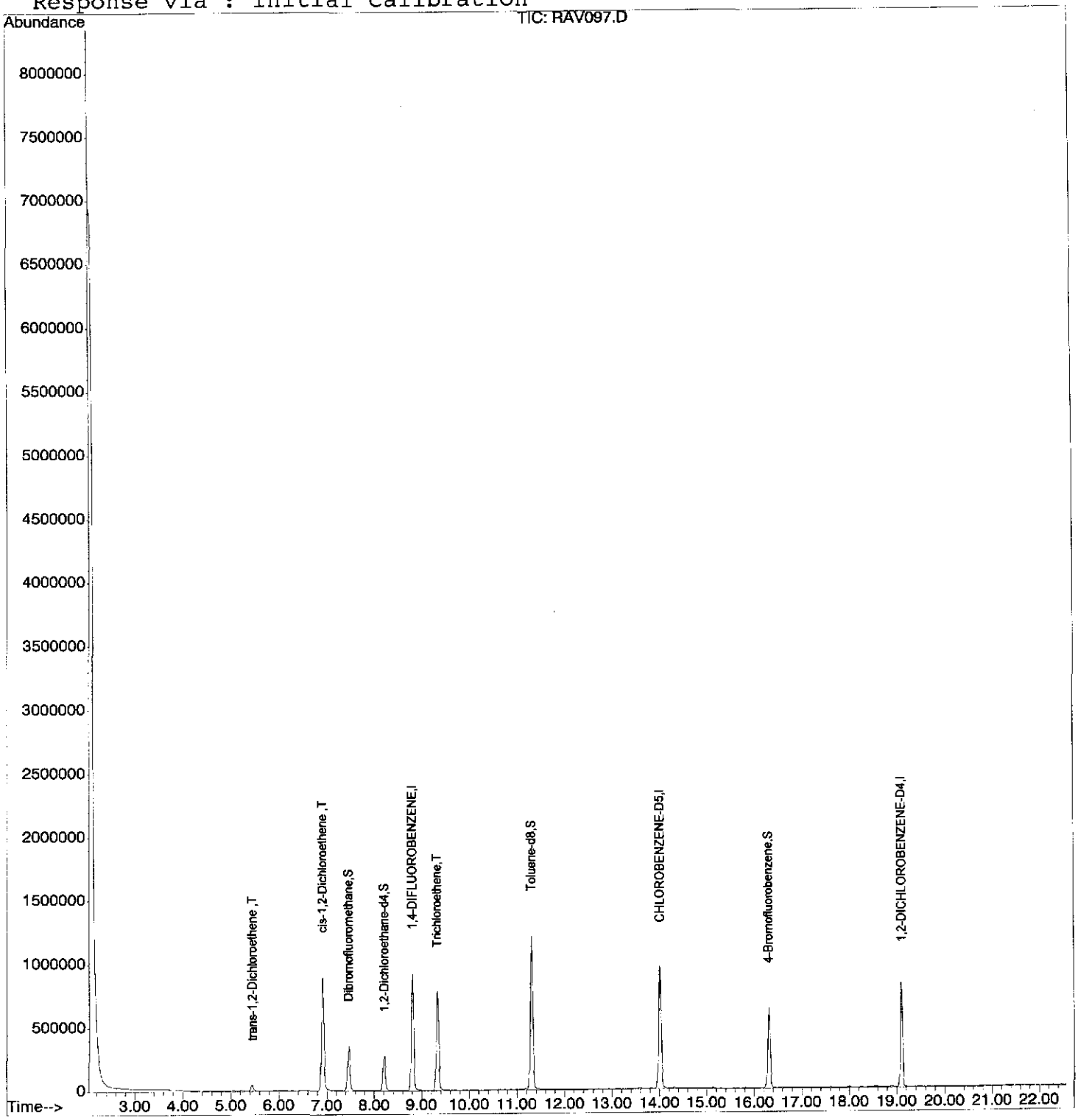
Quantitation Report

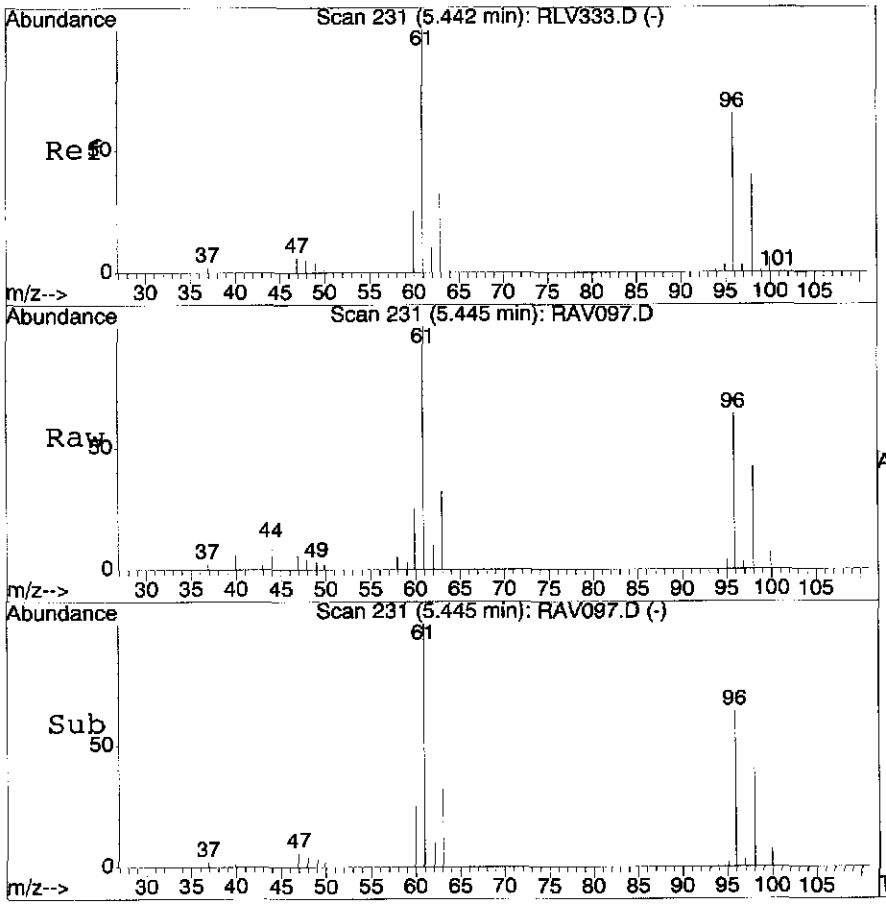
Data File : D:\HPCHEM\1\DATA\11A06\RAV097.D
Acq On : 6 Jan 2011 10:33 pm
Sample : 11A027-01T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:16 2011

Vial: 15
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

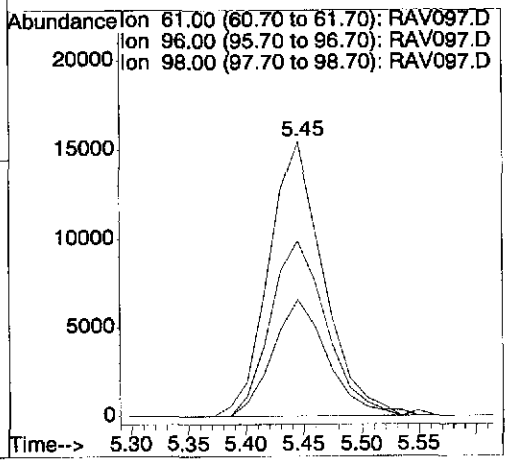


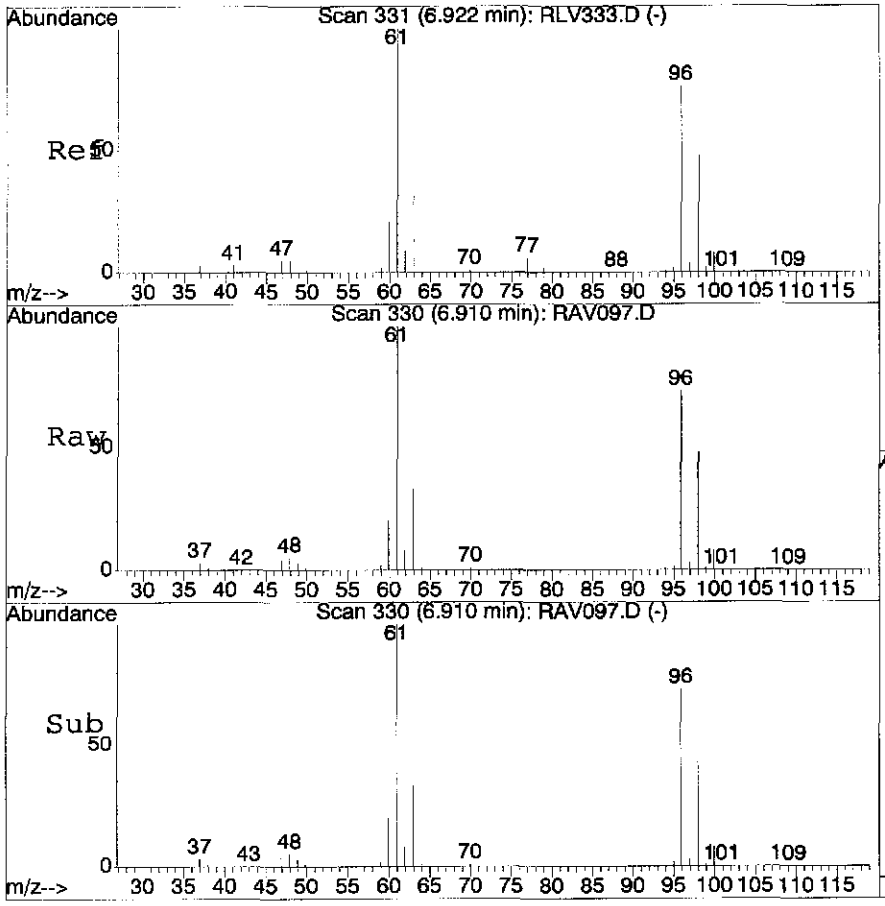


#23
trans-1,2-Dichloroethene
Concen: 0.73 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV097.D
Acq: 6 Jan 2011 10:33 pm

Tgt Ion: 61 Resp: 50842

Ion	Ratio	Lower	Upper
61	100		
96	66.1	36.0	96.0
98	42.4	11.6	71.6

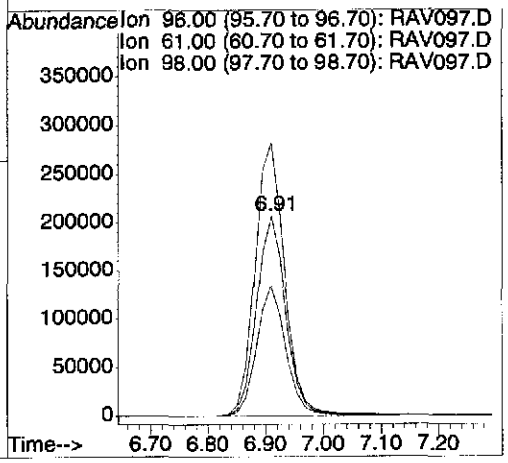


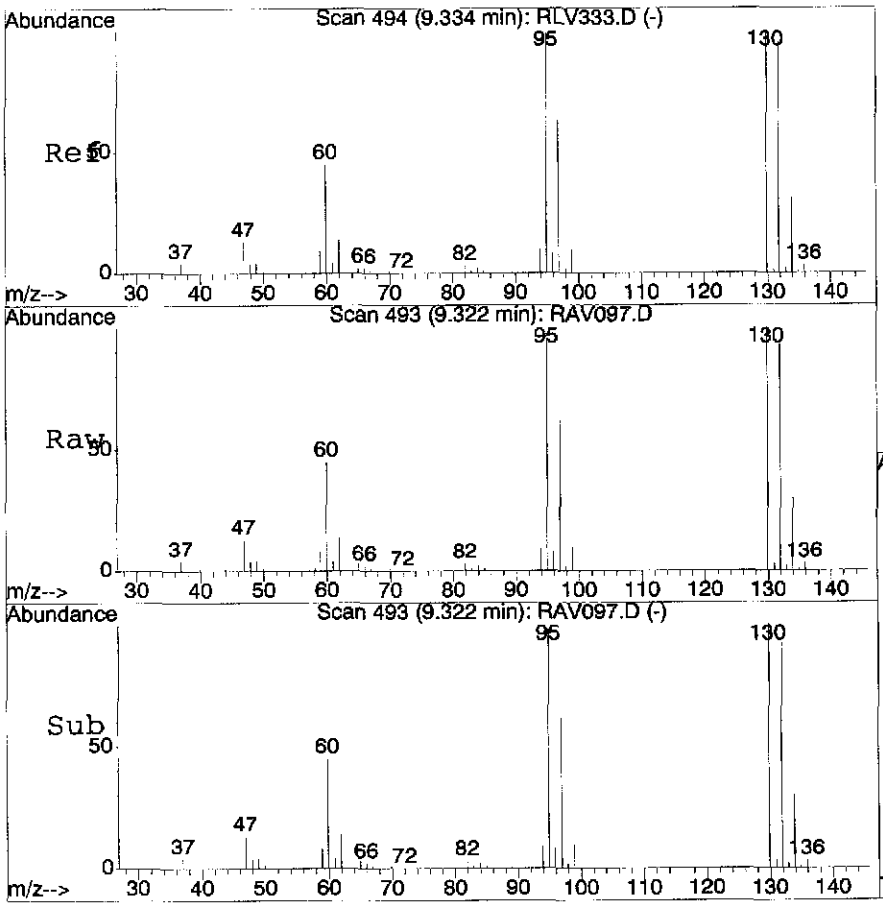


#31
cis-1,2-Dichloroethene
Concen: 14.56 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV097.D
Acq: 6 Jan 2011 10:33 pm

Tgt Ion: 96 Resp: 726156

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.3	183.3
98	64.7	33.4	93.4

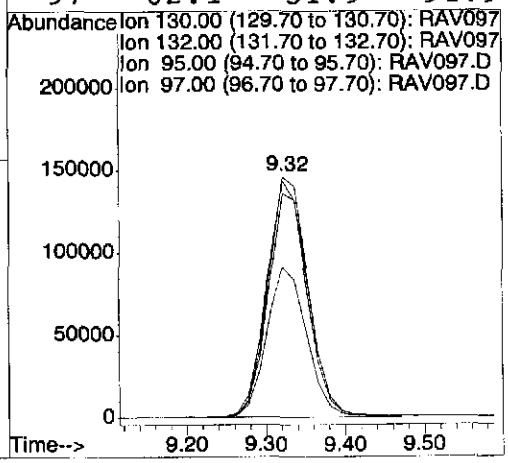




#46
Trichloroethene
Concen: 10.53 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV097.D
Acq: 6 Jan 2011 10:33 pm

Tgt Ion:130 Resp: 520567

Ion	Ratio	Lower	Upper
130	100		
132	94.0	64.2	124.2
95	97.6	67.2	127.2
97	62.1	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 15:13
Sample ID: SSI-GW-002	Date Analyzed: 01/05/11 15:13
Lab Samp ID: A027-02	Dilution Factor: 1
Lab File ID: RAV057	Matrix : WATER
Ext Btch ID: VO01A03	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	2.8	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	390E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	24	1.0	0.20
TRICHLOROETHENE	190E	1.0	0.20
VINYL CHLORIDE	2.6	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.58	10.00	95.8	70-120
4-BROMOFLUOROBENZENE	11.2	10.00	112	75-120
TOLUENE-D8	10.1	10.00	101	85-120
DIBROMOFLUOROMETHANE	9.67	10.00	96.7	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV057.D
Acq On : 5 Jan 2011 3:13 pm
Sample : 11A027-02 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:24 2011

Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1388545	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1186768	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	389923	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	402430	9.67	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.70%	
40) 1,2-Dichloroethane-d4	8.21	65	311716	9.58	ug/l	0.00
Spiked Amount 10.000			Recovery	=	95.80%	
55) Toluene-d8	11.30	98	1556297	10.07	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.70%	
76) 4-Bromofluorobenzene	16.31	95	493651	11.16	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	111.60%	
Target Compounds						Qvalue
5) Vinyl chloride	2.68	62	104311	2.57	ug/l	98
14) 1,1-Dichloroethene	4.39	61	179040	2.80	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	1709916	23.88	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	19987094	388.59	ug/l	91
46) Trichloroethene	9.32	130	9090900	185.57	ug/l	99

(#) = qualifier out of range (m) = manual integration

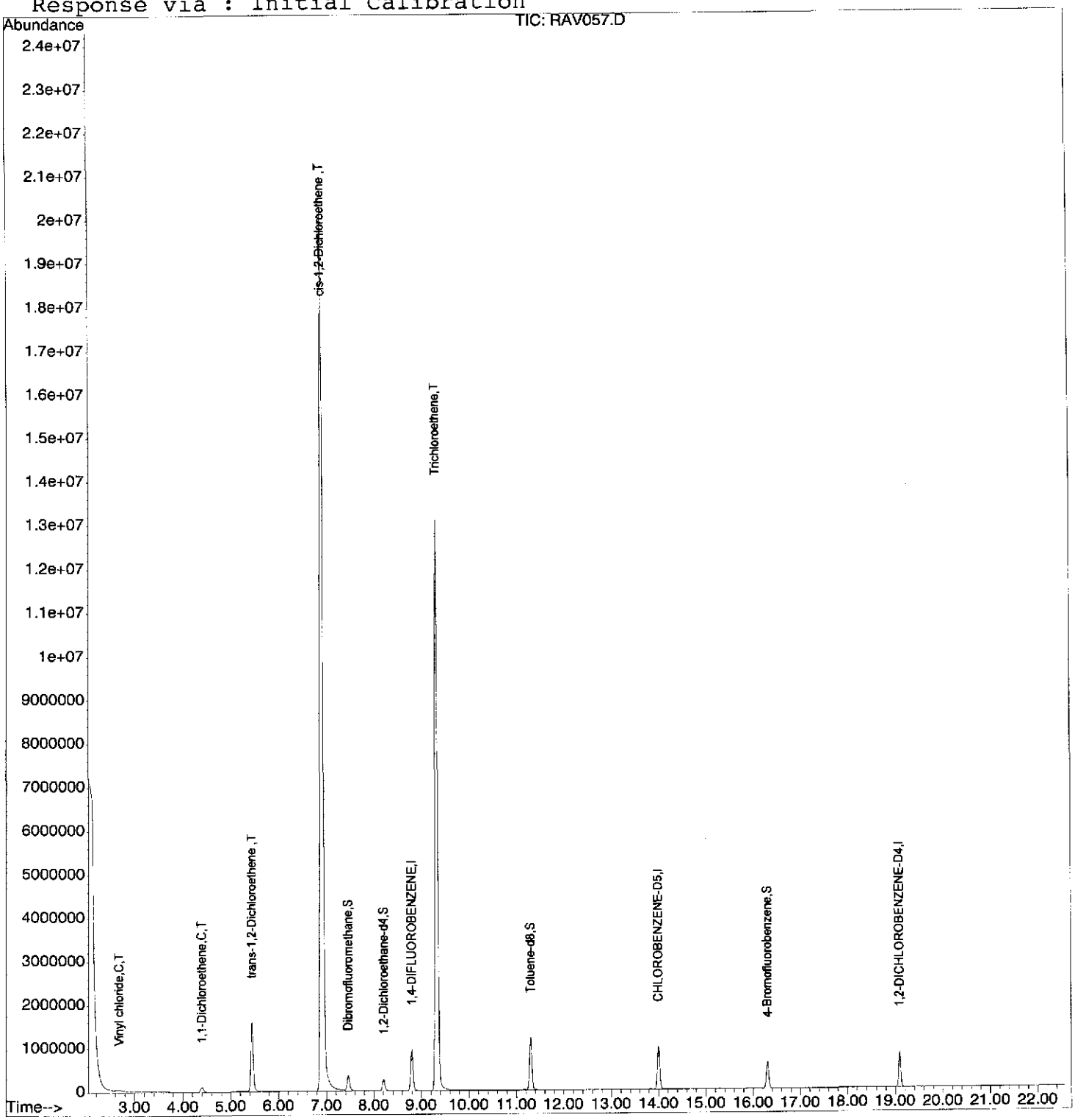
Quantitation Report

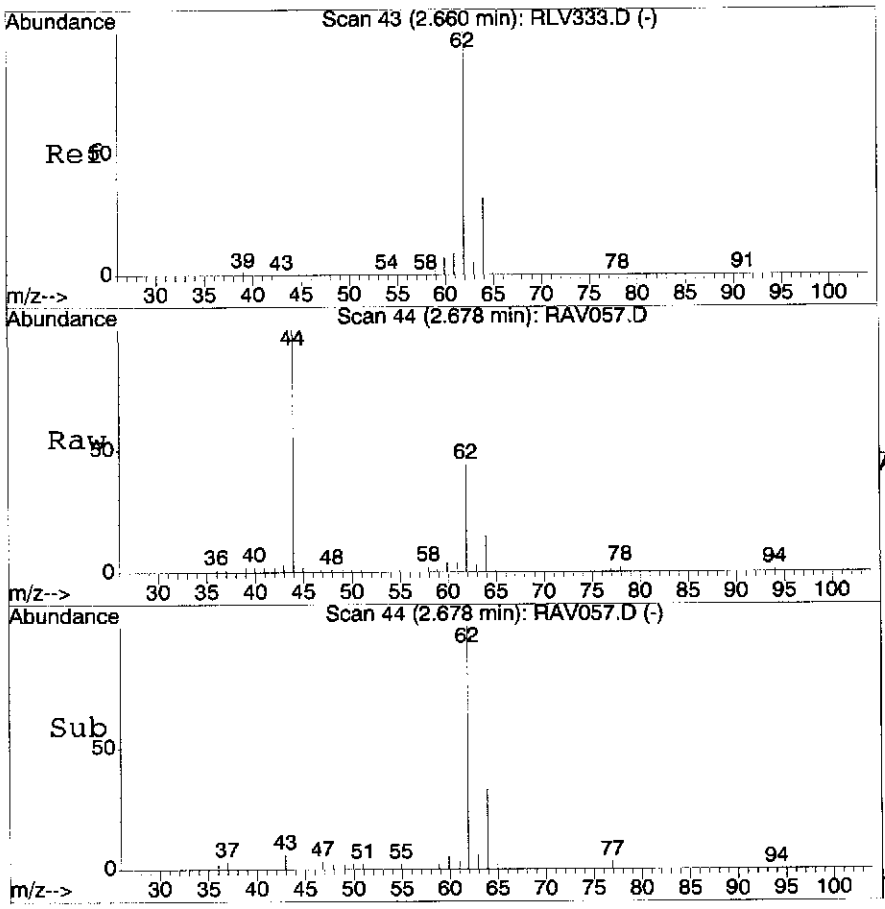
Data File : D:\HPCHEM\1\DATA\11A05\RAV057.D
Acq On : 5 Jan 2011 3:13 pm
Sample : 11A027-02 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:24 2011

Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

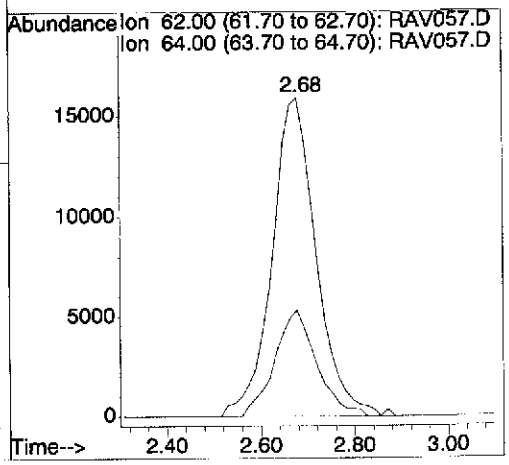


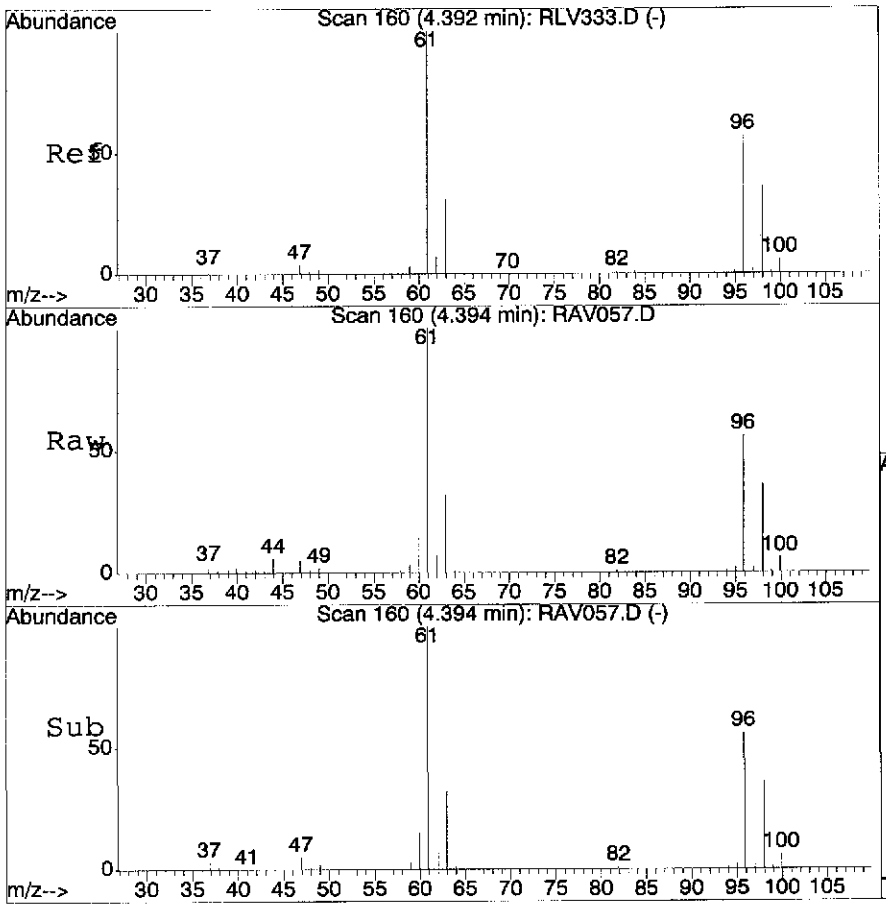


#5
Vinyl chloride
Concen: 2.57 ug/l
RT: 2.68 min Scan# 44
Delta R.T. 0.02 min
Lab File: RAV057.D
Acq: 5 Jan 2011 3:13 pm

Tgt Ion: 62 Resp: 104311

Ion	Ratio	Lower	Upper
62	100		
64	31.5	2.5	62.5

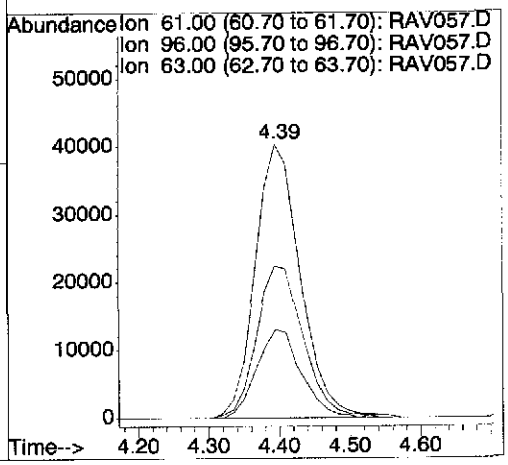


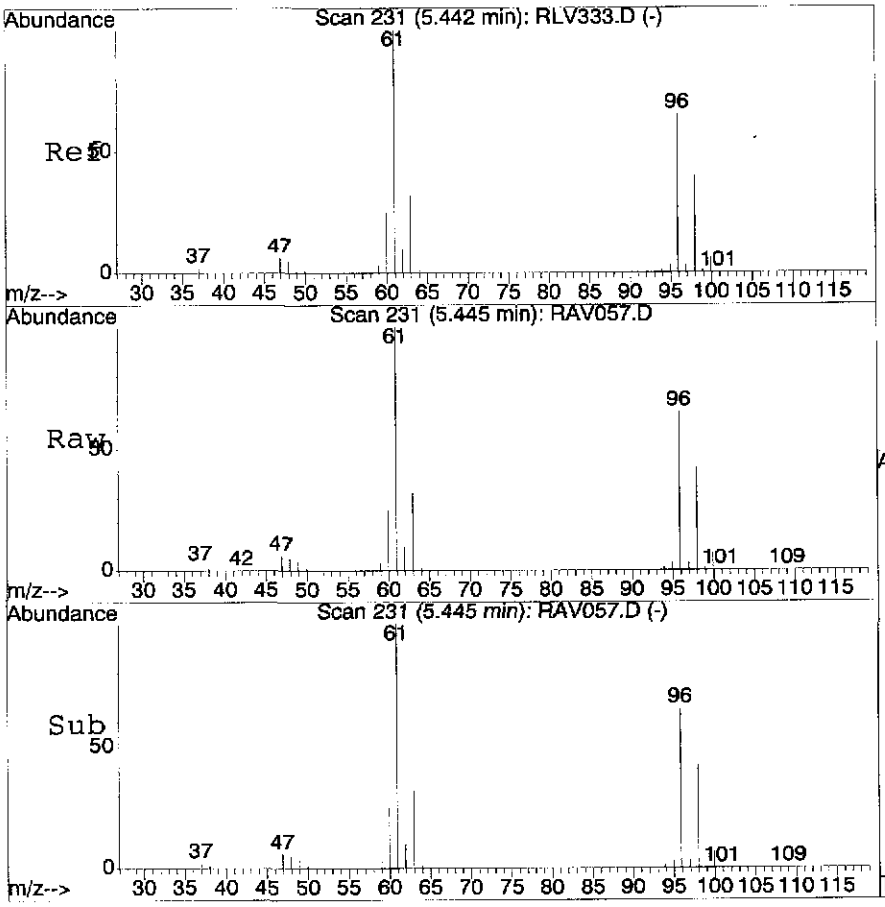


#14
1,1-Dichloroethene
Concen: 2.80 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV057.D
Acq: 5 Jan 2011 3:13 pm

Tgt Ion: 61 Resp: 179040

Ion	Ratio	Lower	Upper
61	100		
96	57.2	27.7	87.7
63	31.7	2.0	62.0

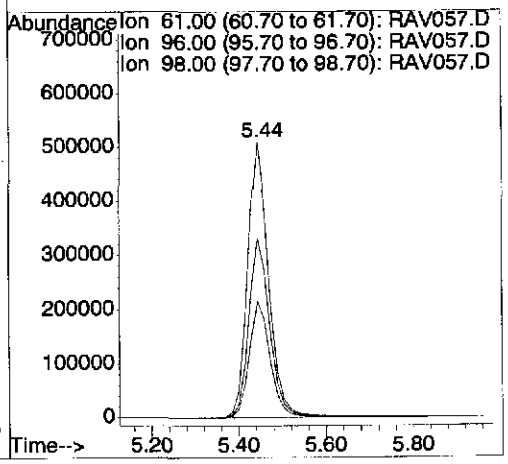


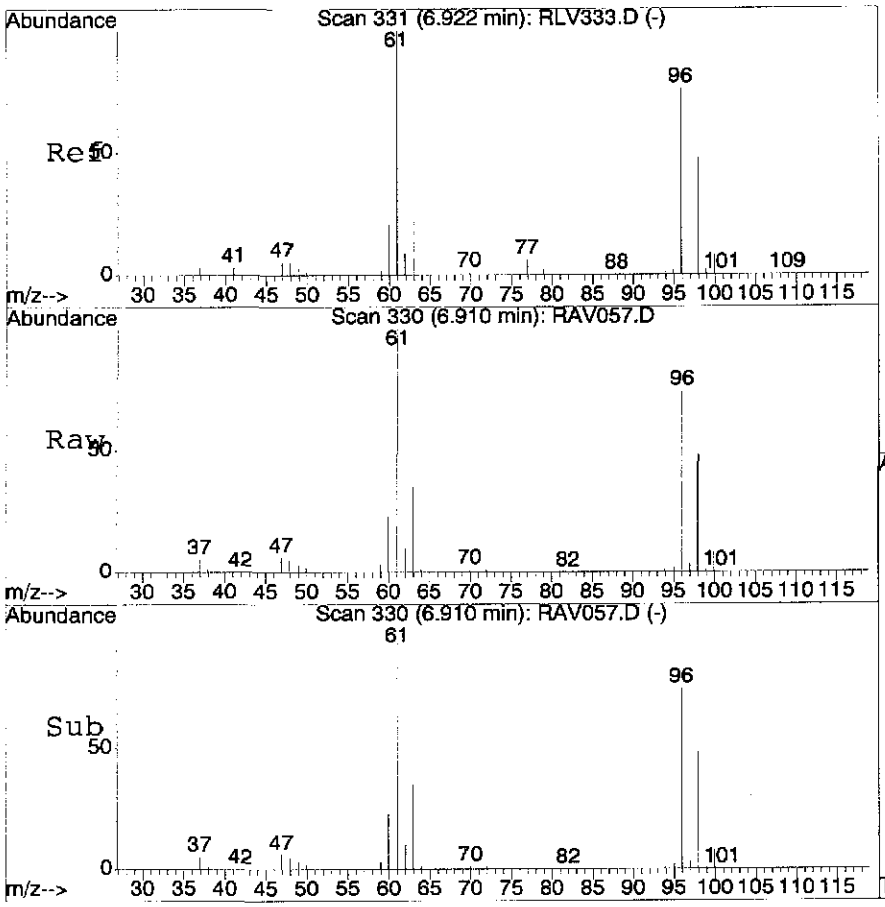


#23
trans-1,2-Dichloroethene
Concen: 23.88 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV057.D
Acq: 5 Jan 2011 3:13 pm

Tgt Ion: 61 Resp: 1709916

Ion	Ratio	Lower	Upper
61	100		
96	65.6	36.0	96.0
98	42.6	11.6	71.6

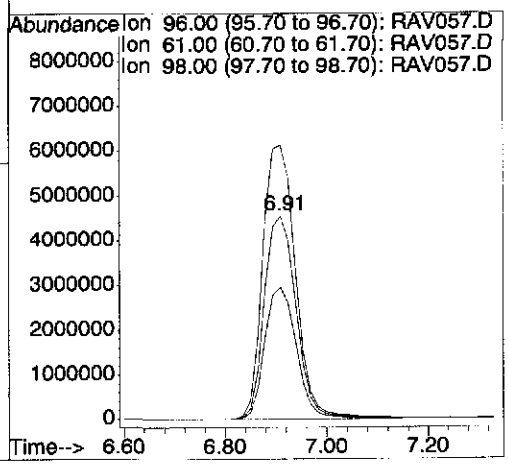


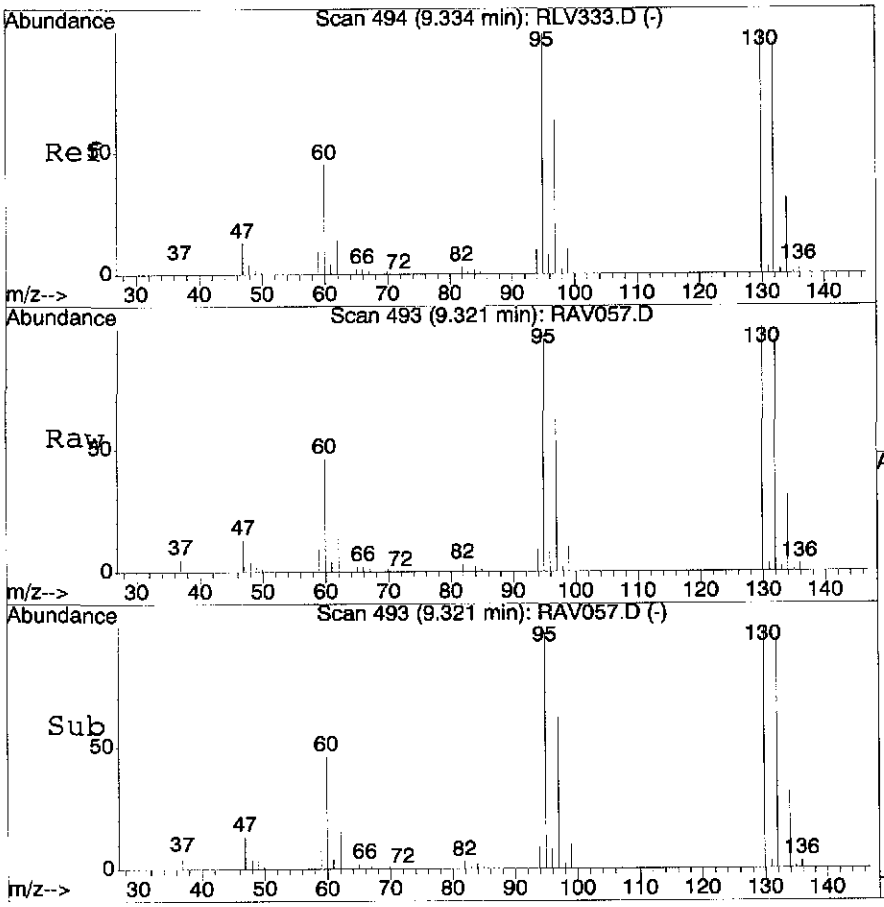


#31
cis-1,2-Dichloroethene
Concen: 388.59 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV057.D
Acq: 5 Jan 2011 3:13 pm

Tgt Ion: 96 Resp:19987094

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.3	183.3
98	65.0	33.4	93.4

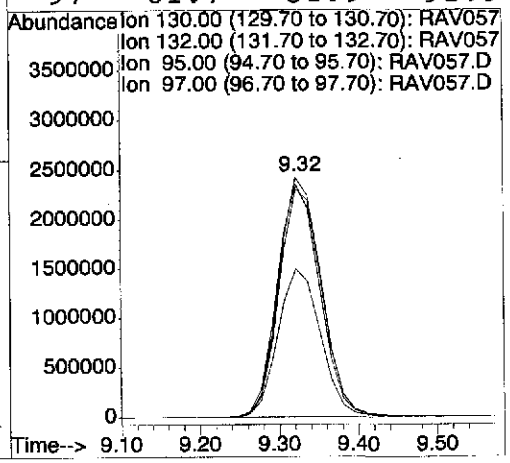




#46
Trichloroethene
Concen: 185.57 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV057.D
Acq: 5 Jan 2011 3:13 pm

Tgt Ion:130 Resp: 9090900

Ion	Ratio	Lower	Upper
130	100		
132	95.6	64.2	124.2
95	96.8	67.2	127.2
97	61.7	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 23:07
Sample ID:	SSI-GW-002DL	Date Analyzed:	01/06/11 23:07
Lab Samp ID:	A027-02T	Dilution Factor:	50
Lab File ID:	RAV098	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	630	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	26J	50	10
TRICHLOROETHENE	210	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	510	500.0	102	70-120
4-BROMOFLUOROBENZENE	530	500.0	106	75-120
TOLUENE-D8	493	500.0	98.6	85-120
DIBROMOFLUOROMETHANE	500	500.0	100	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV098.D
Acq On : 6 Jan 2011 11:07 pm
Sample : 11A027-02T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1356410	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1208957	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	422709	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	406434	10.00	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.00%	
40) 1,2-Dichloroethane-d4	8.21	65	323899	10.19	ug/l	0.00
Spiked Amount 10.000			Recovery	=	101.90%	
55) Toluene-d8	11.30	98	1553433	9.86	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.60%	
76) 4-Bromofluorobenzene	16.30	95	508113	10.60	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.00%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.44	61	36185	0.52	ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	634429	12.63	ug/l	91
46) Trichloroethene	9.34	130	211205	4.23	ug/l	99

(#) = qualifier out of range (m) = manual integration

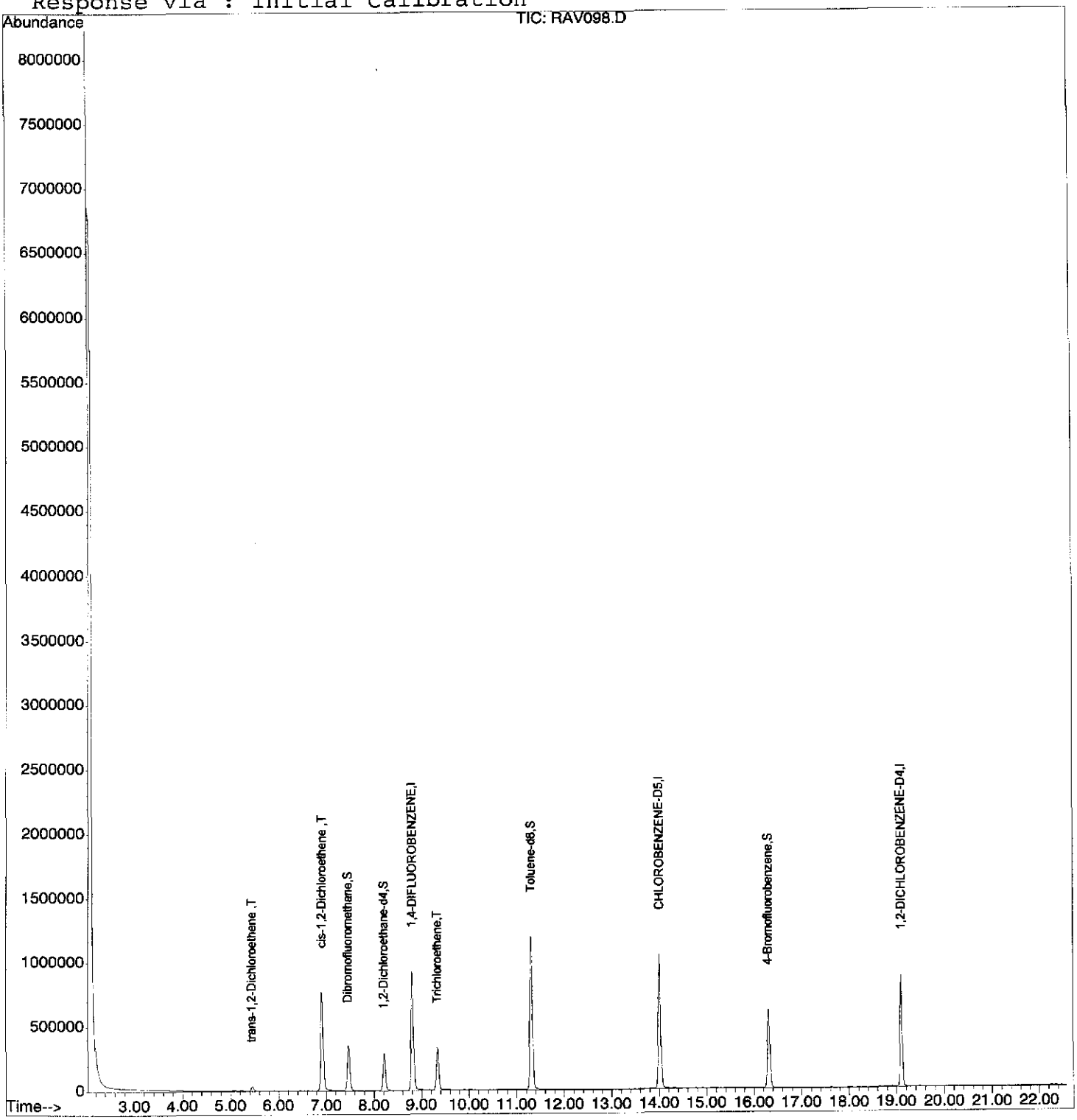
Quantitation Report

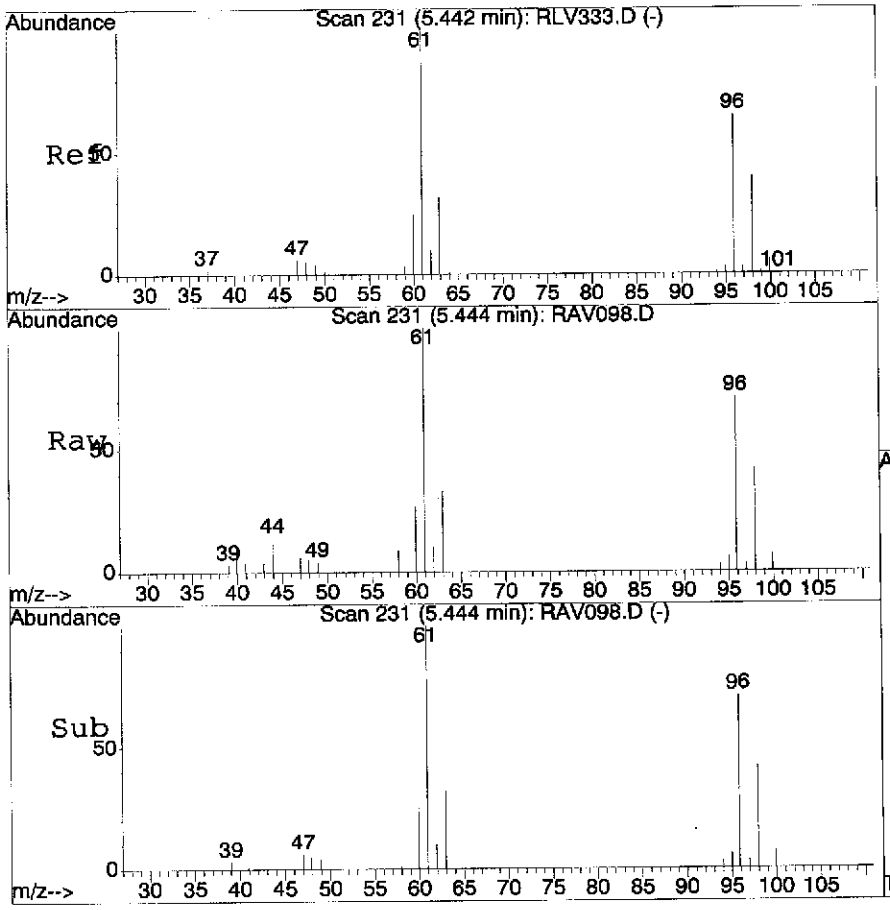
Data File : D:\HPCHEM\1\DATA\11A06\RAV098.D
Acq On : 6 Jan 2011 11:07 pm
Sample : 11A027-02T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

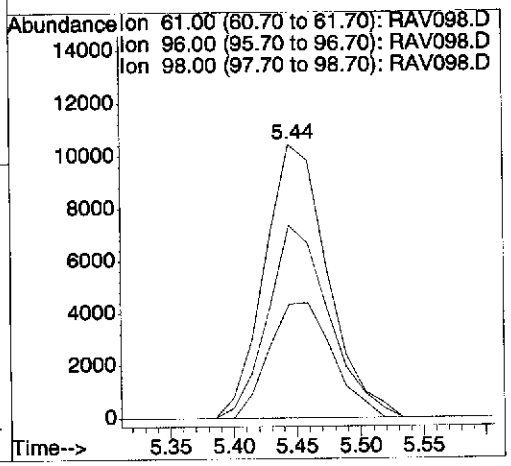


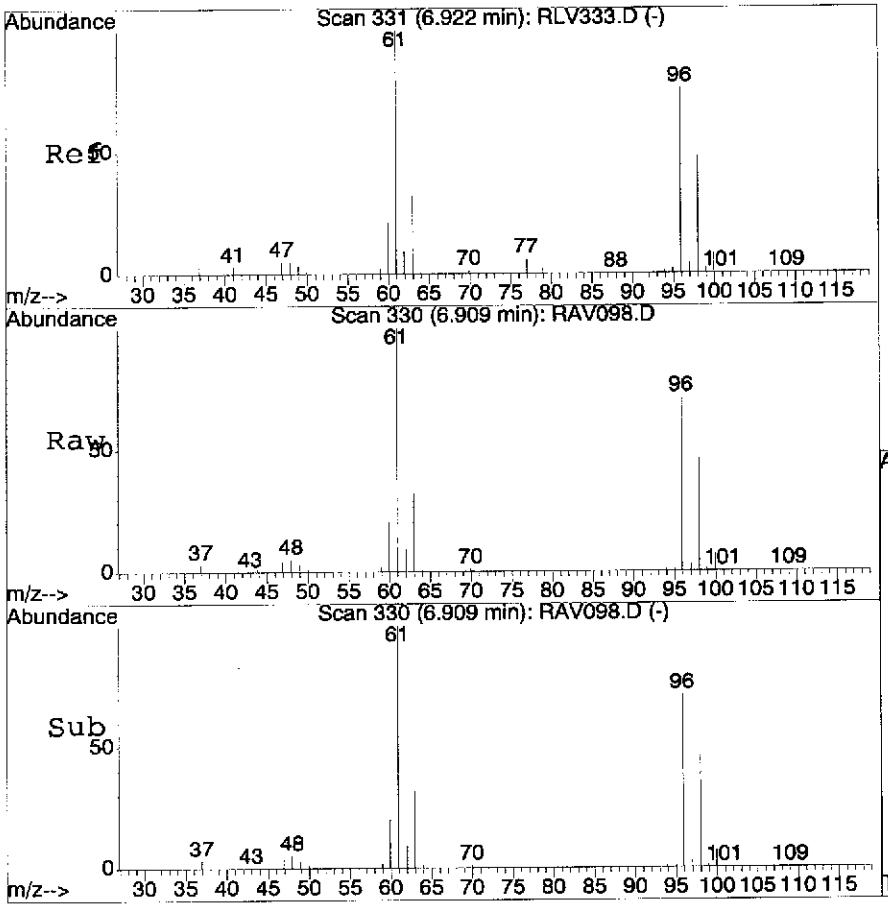


#23
trans-1,2-Dichloroethene
Concen: 0.52 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV098.D
Acq: 6 Jan 2011 11:07 pm

Tgt Ion: 61 Resp: 36185

Ion	Ratio	Lower	Upper
61	100		
96	68.4	36.0	96.0
98	42.3	11.6	71.6

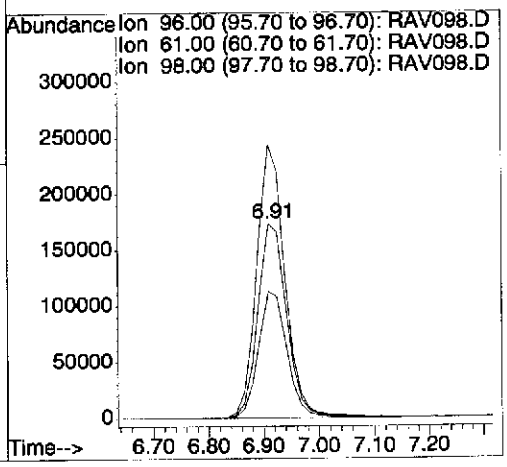


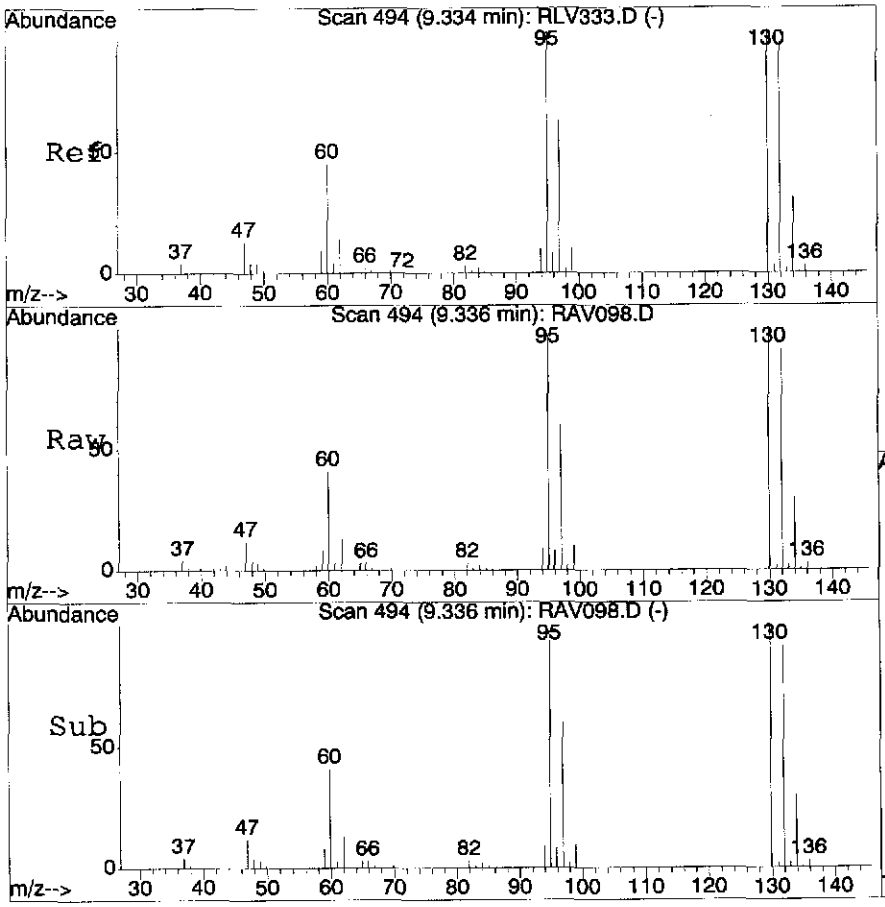


#31
cis-1,2-Dichloroethene
Concen: 12.63 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV098.D
Acq: 6 Jan 2011 11:07 pm

Tgt Ion: 96 Resp: 634429

Ion	Ratio	Lower	Upper
96	100		
61	137.1	123.3	183.3
98	64.6	33.4	93.4

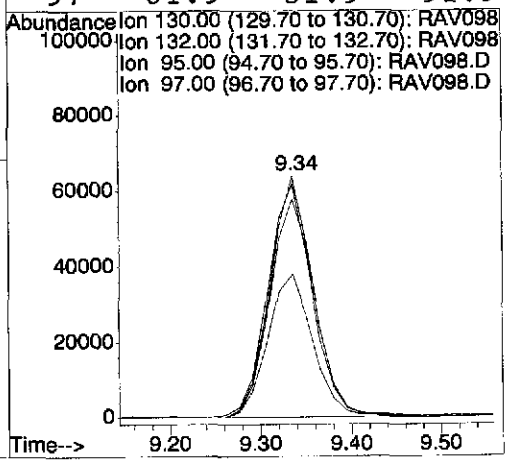




#46
Trichloroethene
Concen: 4.23 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV098.D
Acq: 6 Jan 2011 11:07 pm

Tgt Ion:130 Resp: 211205

Ion	Ratio	Lower	Upper
130	100		
132	94.5	64.2	124.2
95	99.8	67.2	127.2
97	61.9	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 00:44
Sample ID:	SSI-GW-003	Date Analyzed:	01/07/11 00:44
Lab Samp ID:	A027-03R	Dilution Factor:	1
Lab File ID:	RAV101	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	110E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	0.38J	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	5.4	1.0	0.20
TRICHLOROETHENE	100E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.95	10.00	99.5	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.77	10.00	97.7	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV101.D
Acq On : 7 Jan 2011 12:44 am
Sample : 11A027-03R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:09 2011

Vial: 19
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1443332	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1255668	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	435603	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	422503	9.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.70%	
40) 1,2-Dichloroethane-d4	8.21	65	336624	9.95	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.50%	
55) Toluene-d8	11.30	98	1621341	9.91	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.10%	
76) 4-Bromofluorobenzene	16.30	95	524845	10.62	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.20%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.44	61	399828	5.37	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	5786221	108.23	ug/l	91
46) Trichloroethene	9.34	130	5334013	102.91	ug/l	100
62) Tetrachloroethene	12.59	164	14724	0.38	ug/l	98

(#) = qualifier out of range (m) = manual integration

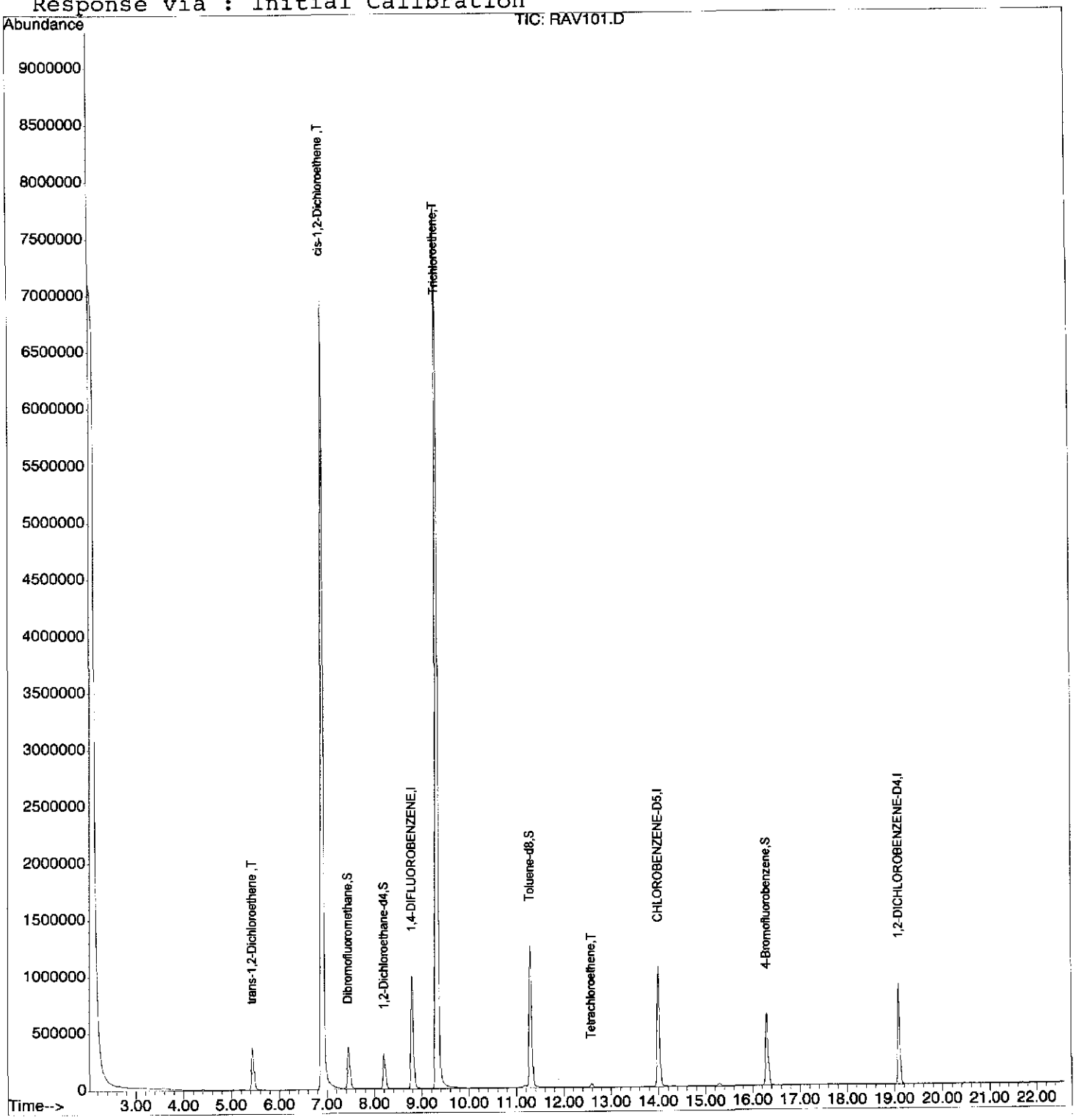
Quantitation Report

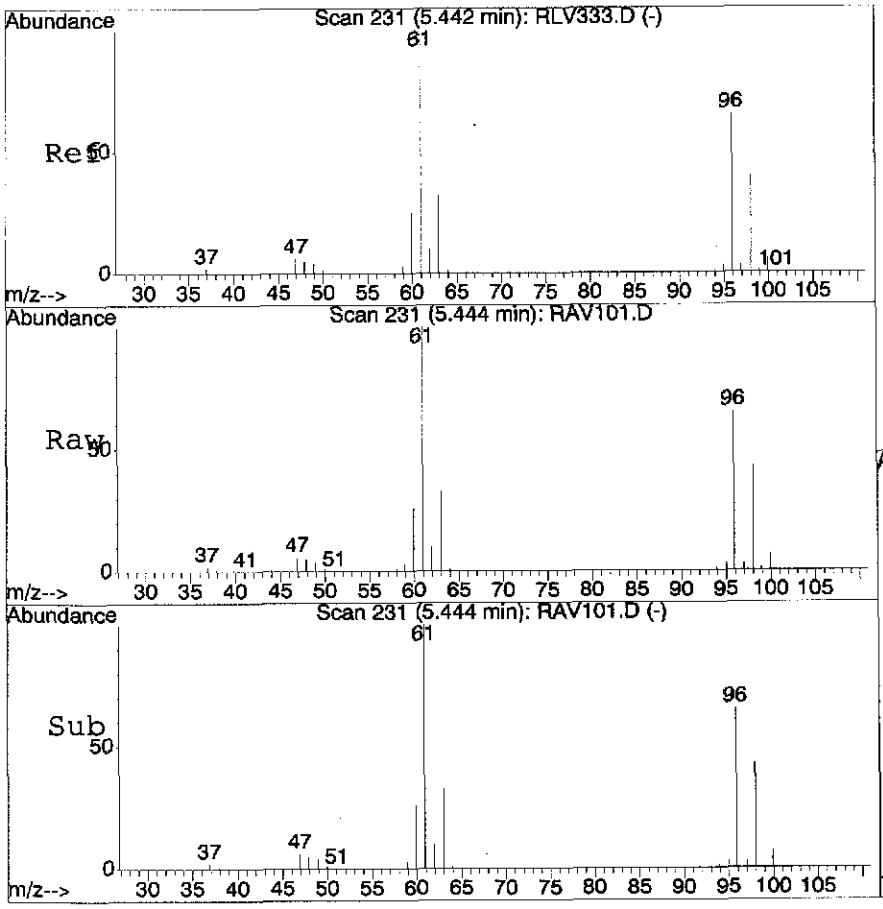
Data File : D:\HPCHEM\1\DATA\11A06\RAV101.D
Acq On : 7 Jan 2011 12:44 am
Sample : 11A027-03R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:09 2011

Vial: 19
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

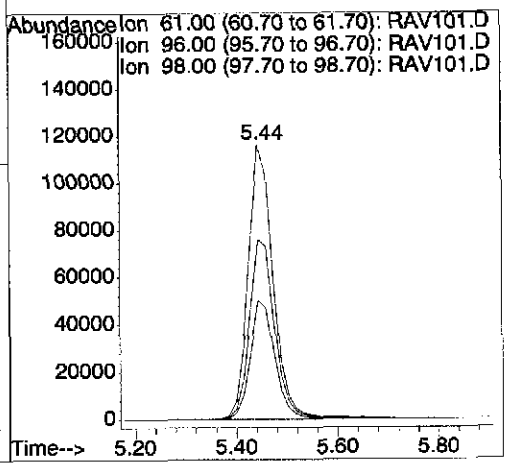


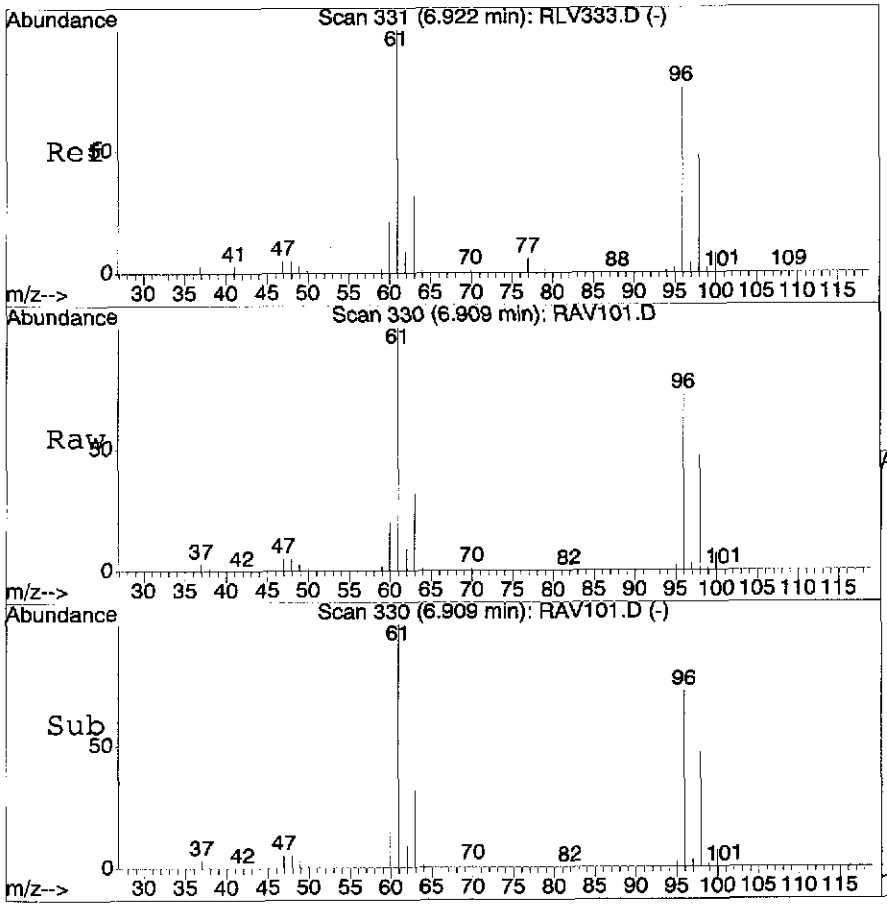


#23
trans-1,2-Dichloroethene
Concen: 5.37 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV101.D
Acq: 7 Jan 2011 12:44 am

Tgt Ion: 61 Resp: 399828

Ion	Ratio	Lower	Upper
61	100		
96	66.6	36.0	96.0
98	42.7	11.6	71.6

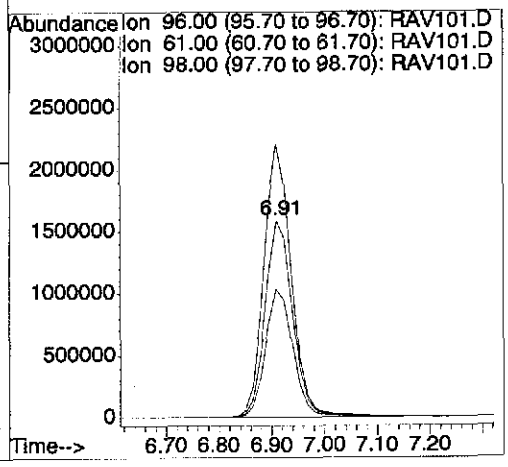


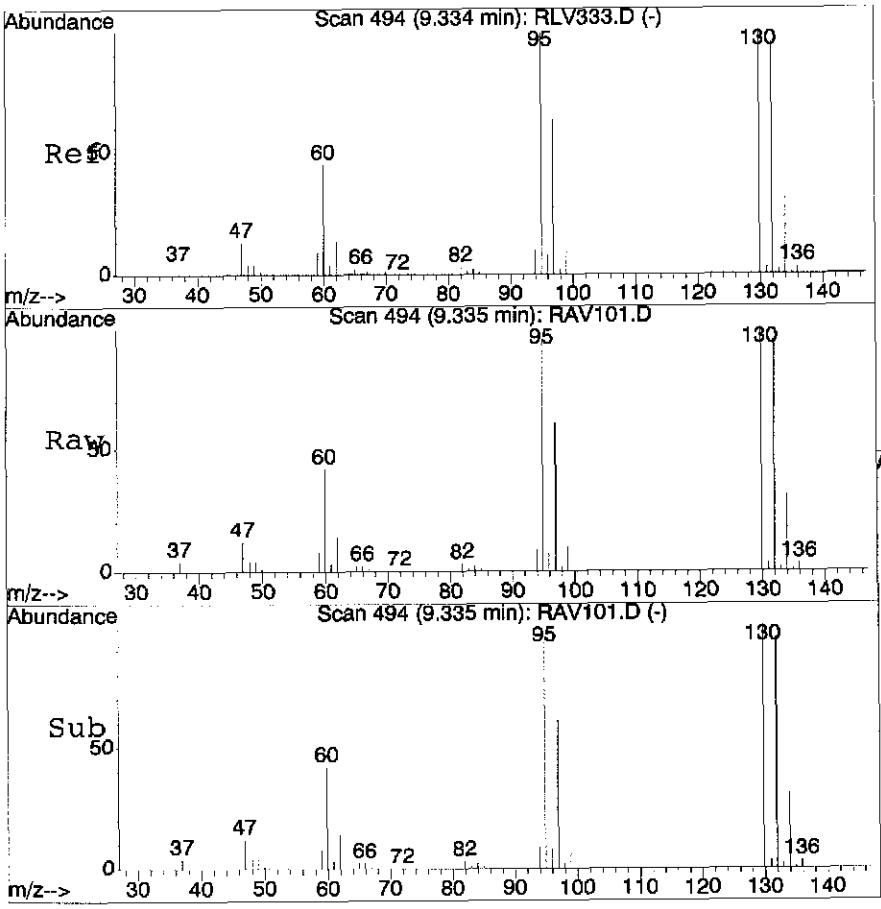


#31
cis-1,2-Dichloroethene
Concen: 108.23 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV101.D
Acq: 7 Jan 2011 12:44 am

Tgt Ion: 96 Resp: 5786221

Ion	Ratio	Lower	Upper
96	100		
61	137.8	123.3	183.3
98	65.3	33.4	93.4

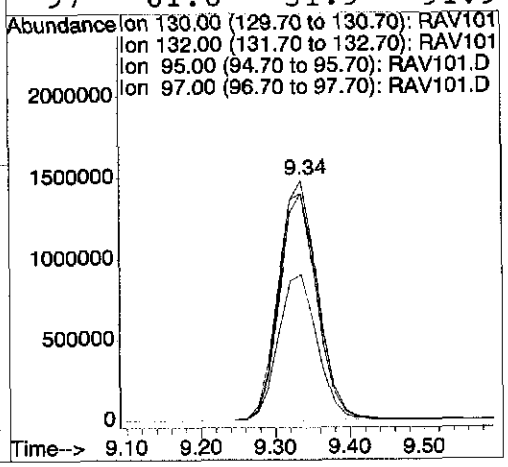


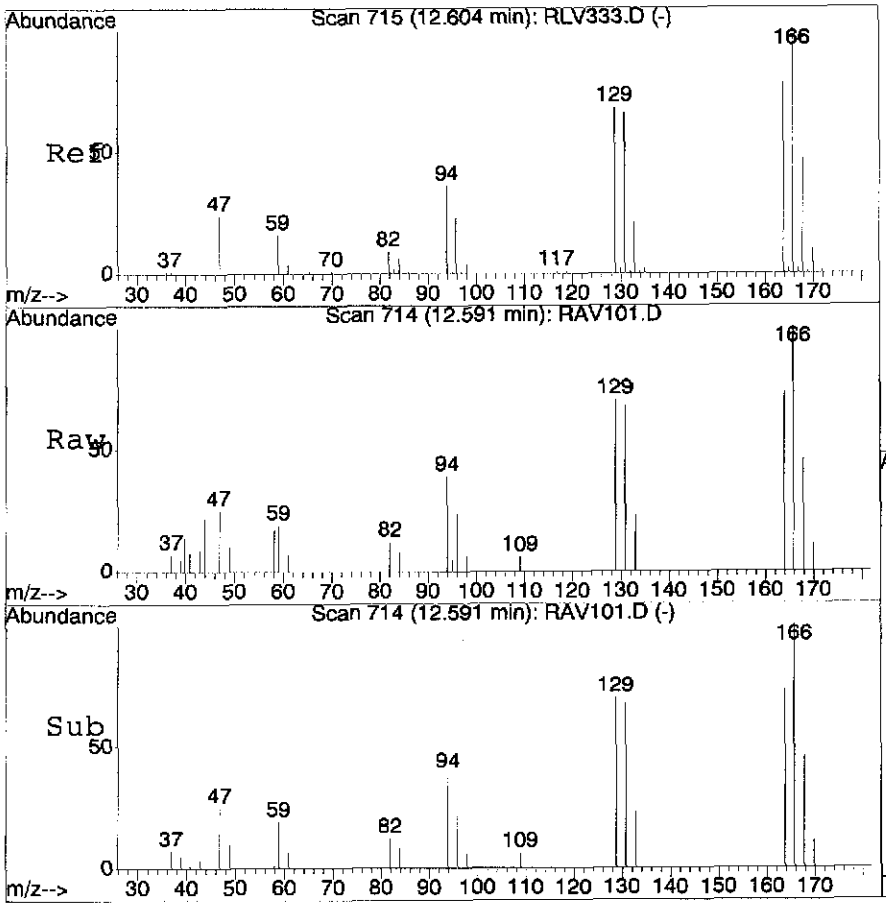


#46
Trichloroethene
Concen: 102.91 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV101.D
Acq: 7 Jan 2011 12:44 am

Tgt Ion:130 Resp: 5334013

Ion	Ratio	Lower	Upper
130	100		
132	94.9	64.2	124.2
95	97.0	67.2	127.2
97	61.8	31.9	91.9

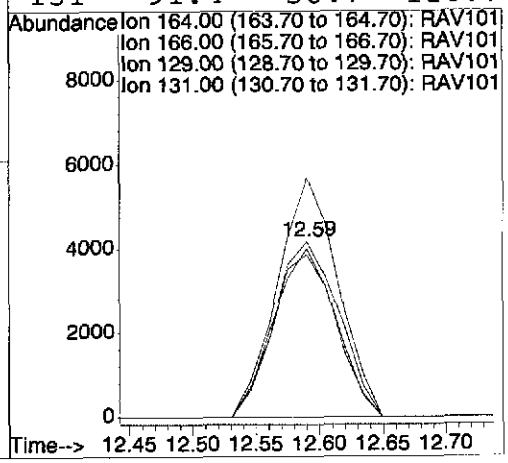




#62
Tetrachloroethene
Concen: 0.38 ug/l
RT: 12.59 min Scan# 714
Delta R.T. -0.01 min
Lab File: RAV101.D
Acq: 7 Jan 2011 12:44 am

Tgt Ion:164 Resp: 14724

Ion	Ratio	Lower	Upper
164	100		
166	127.9	98.5	158.5
129	91.6	60.6	120.6
131	91.4	56.7	116.7



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/06/11 23:39
Sample ID: SSI-GW-003DL	Date Analyzed: 01/06/11 23:39
Lab Samp ID: A027-03T	Dilution Factor: 10
Lab File ID: RAV099	Matrix : WATER
Ext Btch ID: V001A05	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	120	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	5.3J	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	106	100.0	106	75-120
TOLUENE-D8	98.5	100.0	98.5	85-120
DIBROMOFLUOROMETHANE	101	100.0	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV099.D
Acq On : 6 Jan 2011 11:39 pm
Sample : 11A027-03T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 17
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1350622	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1201960	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	411318	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	407204	10.06	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.60%	
40) 1,2-Dichloroethane-d4	8.21	65	322086	10.18	ug/l	0.00
Spiked Amount 10.000			Recovery	=	101.80%	
55) Toluene-d8	11.30	98	1542554	9.85	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.50%	
76) 4-Bromofluorobenzene	16.31	95	495504	10.62	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.20%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.45	61	36762	0.53	ug/l	97
31) cis-1,2-Dichloroethene	6.91	96	597897	11.95	ug/l	91
46) Trichloroethene	9.34	130	554272	11.17	ug/l	100

(#) = qualifier out of range (m) = manual integration

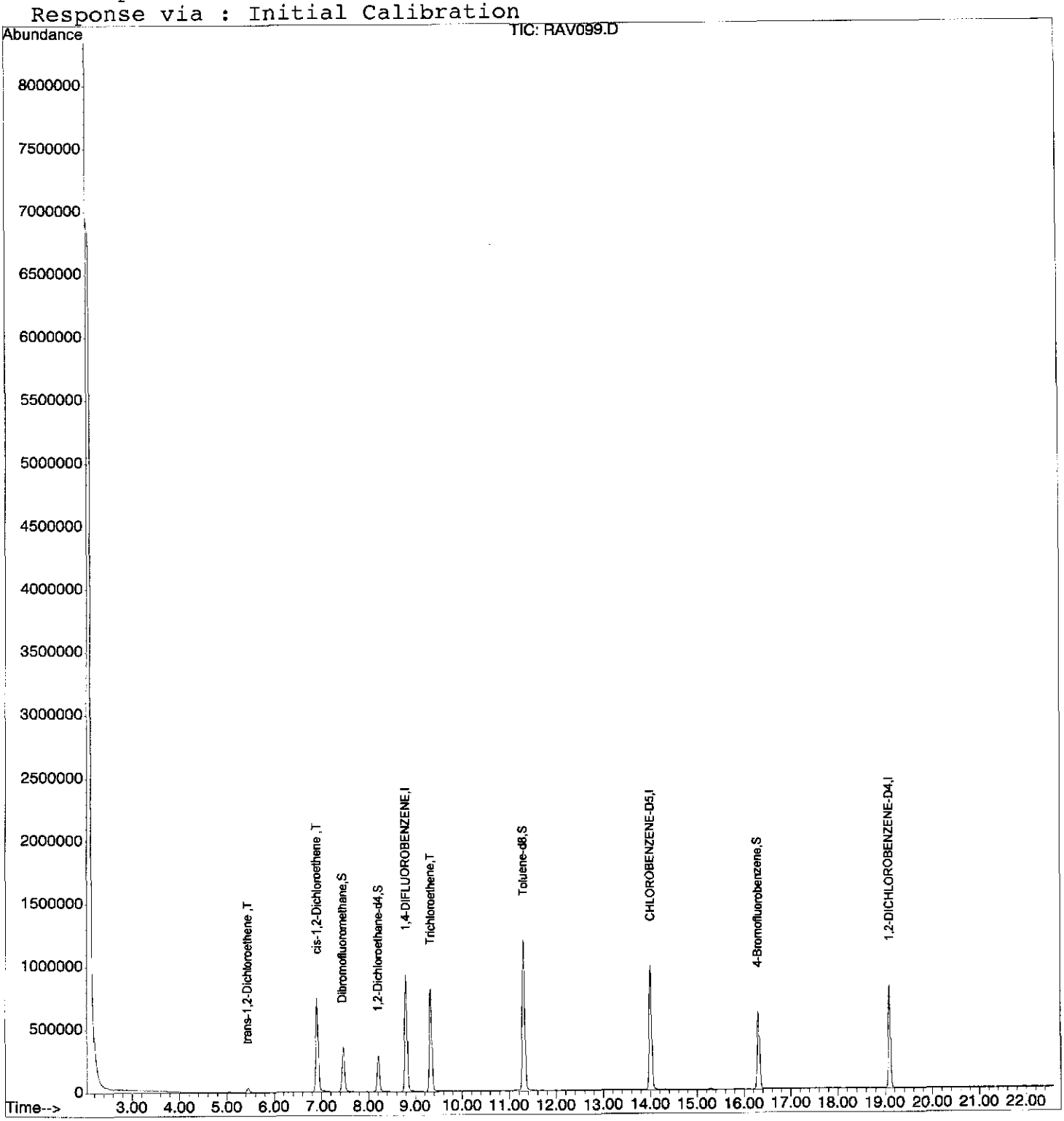
Quantitation Report

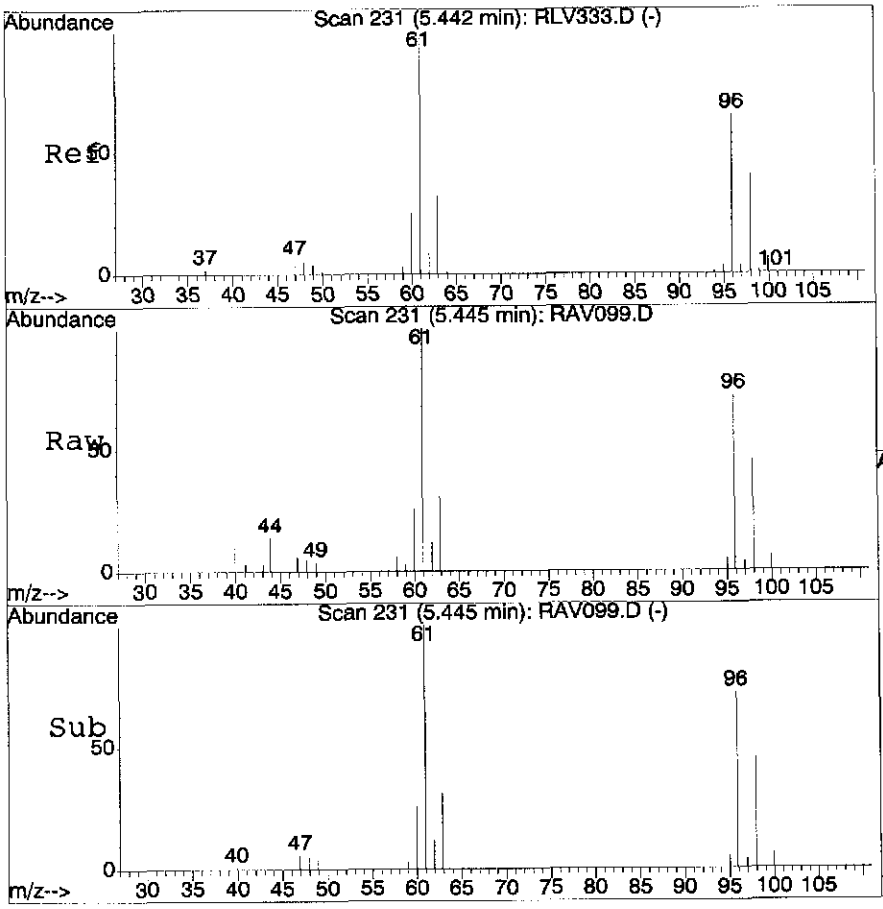
Data File : D:\HPCHEM\1\DATA\11A06\RAV099.D
Acq On : 6 Jan 2011 11:39 pm
Sample : 11A027-03T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 17
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

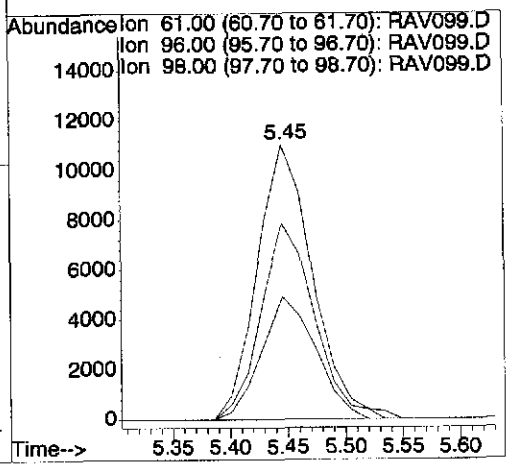


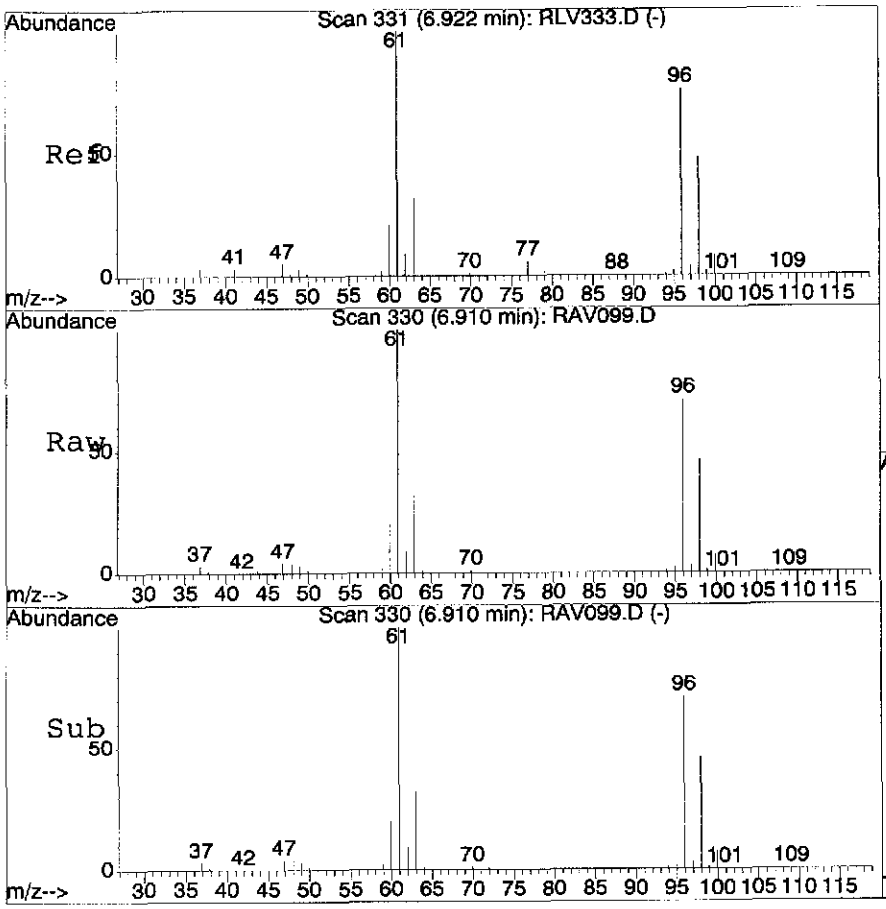


#23
trans-1,2-Dichloroethene
Concen: 0.53 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV099.D
Acq: 6 Jan 2011 11:39 pm

Tgt Ion: 61 Resp: 36762

Ion	Ratio	Lower	Upper
61	100		
96	68.5	36.0	96.0
98	43.9	11.6	71.6

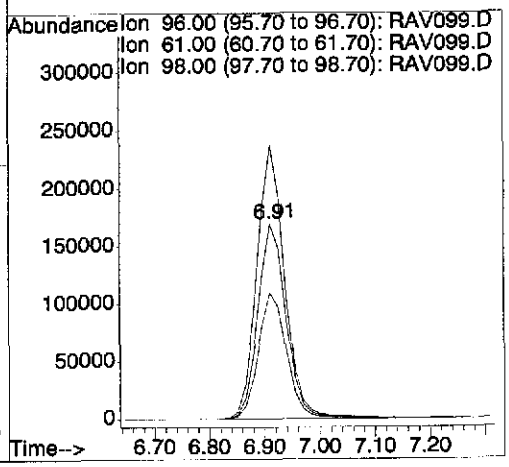


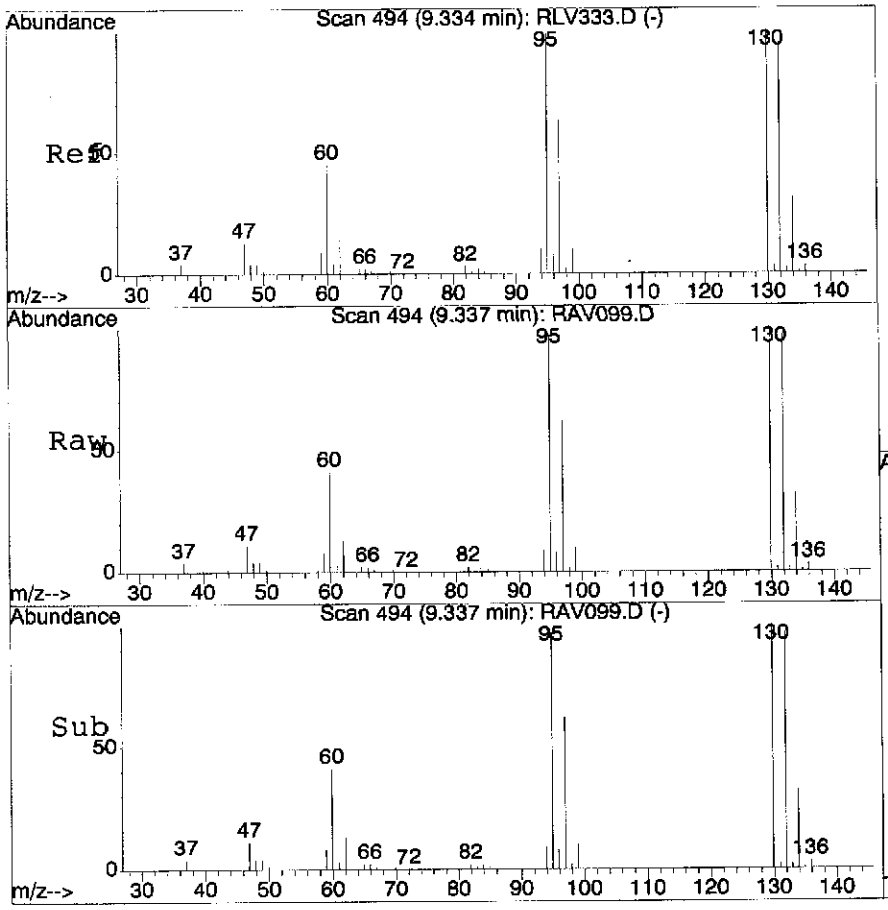


#31
cis-1,2-Dichloroethene
Concen: 11.95 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV099.D
Acq: 6 Jan 2011 11:39 pm

Tgt Ion: 96 Resp: 597897

Ion	Ratio	Lower	Upper
96	100		
61	138.3	123.3	183.3
98	64.9	33.4	93.4

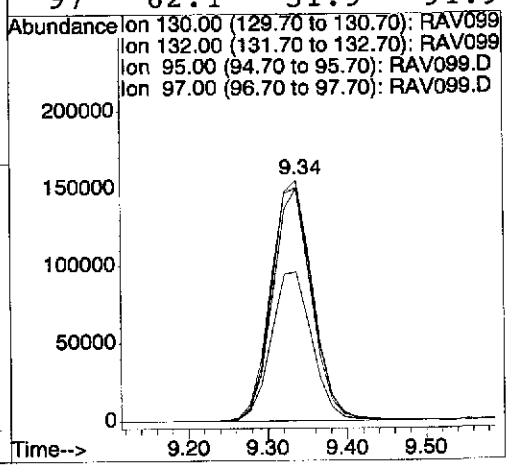




#46
Trichloroethene
Concen: 11.17 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV099.D
Acq: 6 Jan 2011 11:39 pm

Tgt Ion:130 Resp: 554272

Ion	Ratio	Lower	Upper
130	100		
132	94.1	64.2	124.2
95	97.9	67.2	127.2
97	62.1	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 02:22
Sample ID:	SSI-GW-004	Date Analyzed:	01/07/11 02:22
Lab Samp ID:	A027-04R	Dilution Factor:	1
Lab File ID:	RAV104	Matrix	: WATER
Ext Btch ID:	V001A05	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.42J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	51	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.4	1.0	0.20
TRICHLOROETHENE	300E	1.0	0.20
VINYL CHLORIDE	0.23J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.96	10.00	99.6	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	9.90	10.00	99.0	85-120
DIBROMOFLUOROMETHANE	9.89	10.00	98.9	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV104.D
Acq On : 7 Jan 2011 2:22 am
Sample : 11A027-04R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:11 2011

Vial: 22
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1391585	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1223613	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	416537	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	412393	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.90%	
40) 1,2-Dichloroethane-d4	8.21	65	324897	9.96	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.60%	
55) Toluene-d8	11.30	98	1578039	9.90	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.00%	
76) 4-Bromofluorobenzene	16.31	95	501004	10.61	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.10%	
Target Compounds						Qvalue
5) Vinyl chloride	2.68	62	9238	0.23	ug/l	93
14) 1,1-Dichloroethene	4.39	61	26966	0.42	ug/l	99
23) trans-1,2-Dichloroethene	5.45	61	174848	2.44	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	2606194	50.56	ug/l	91
46) Trichloroethene	9.34	130	15205531	301.04	ug/l	99

(#) = qualifier out of range (m) = manual integration

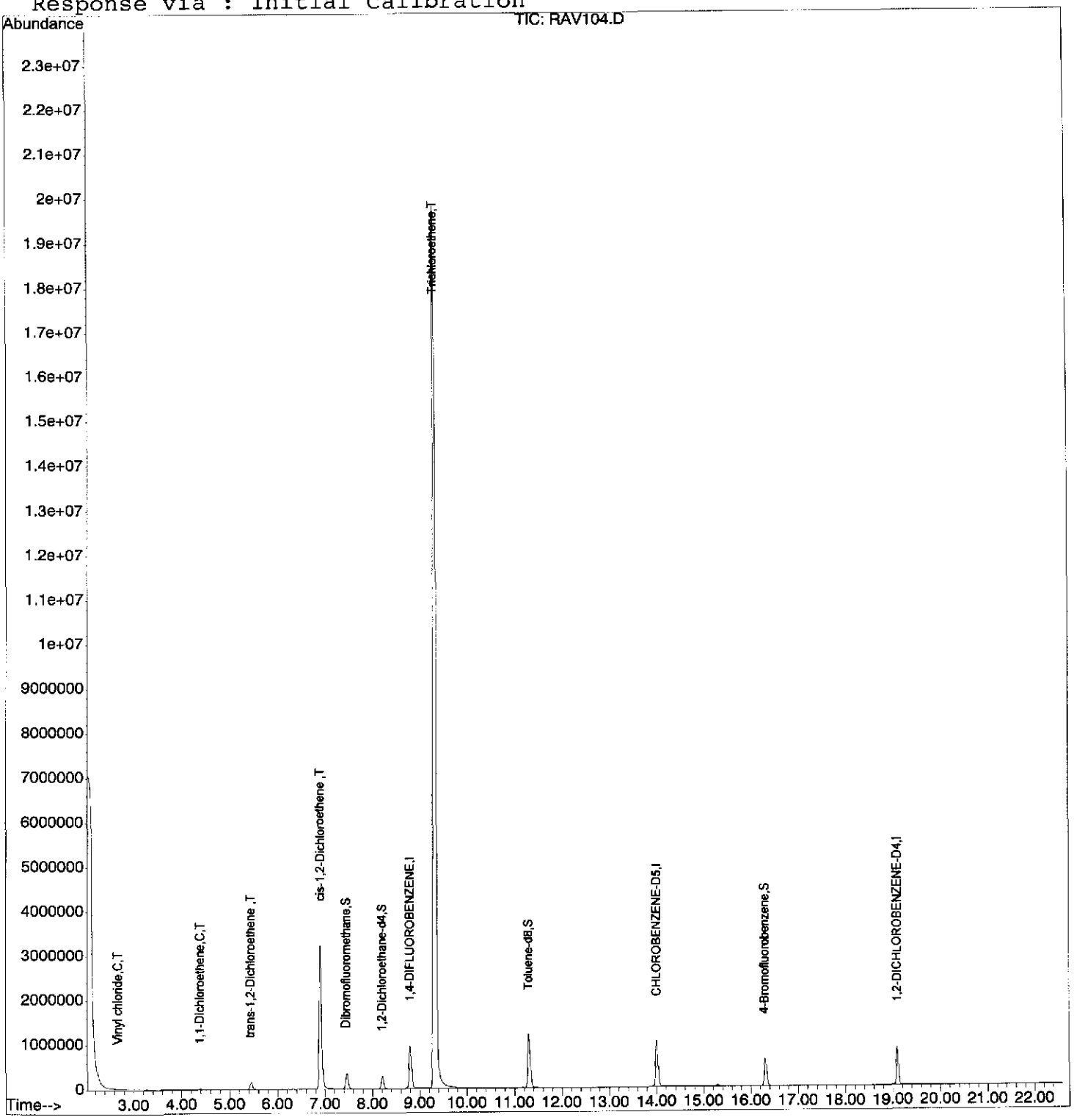
Quantitation Report

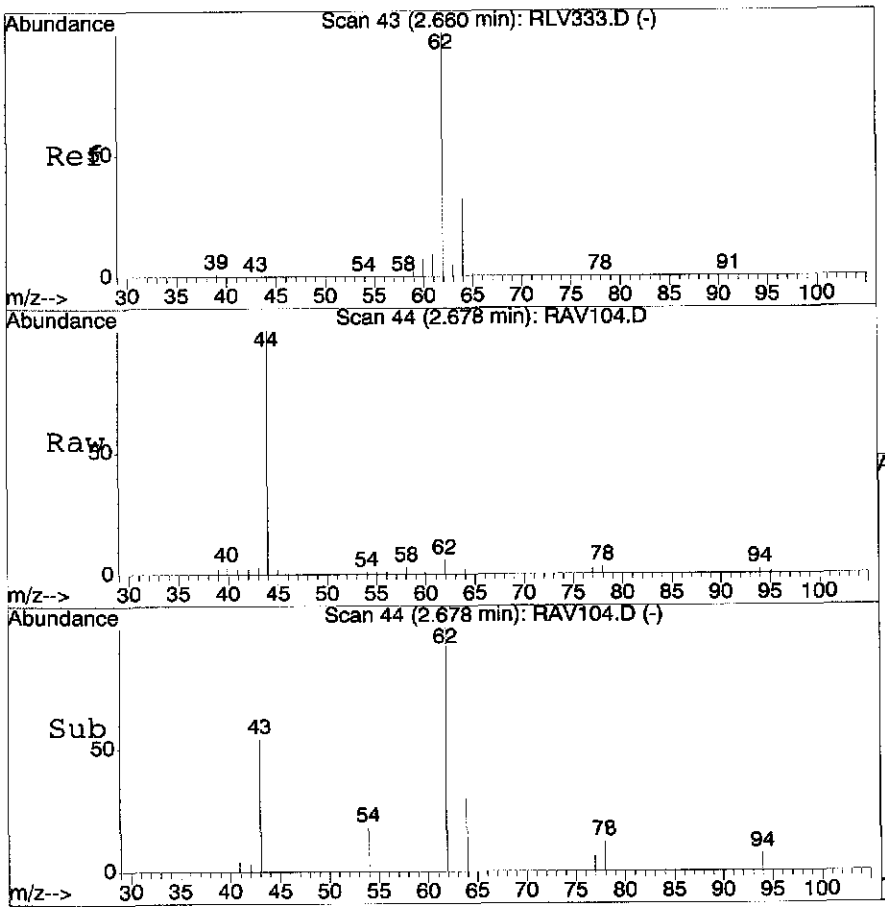
Data File : D:\HPCHEM\1\DATA\11A06\RAV104.D
Acq On : 7 Jan 2011 2:22 am
Sample : 11A027-04R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:11 2011

Vial: 22
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

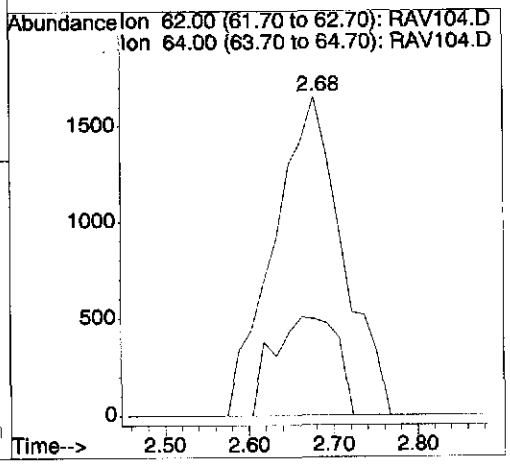


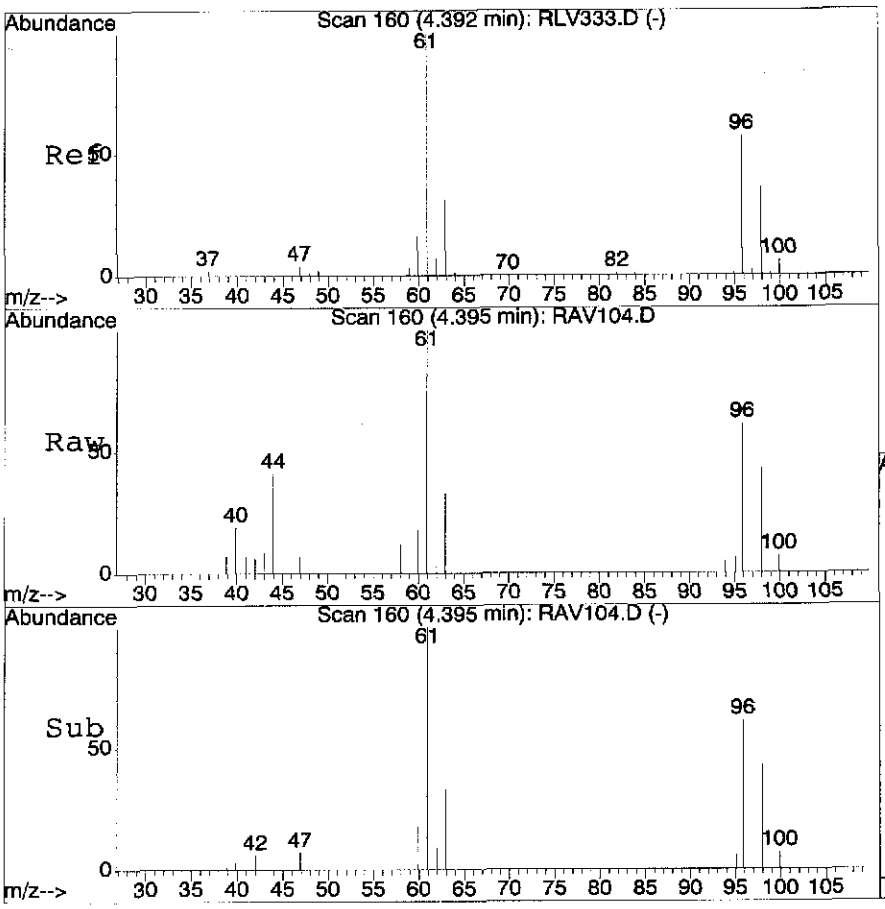


#5
Vinyl chloride
Concen: 0.23 ug/l
RT: 2.68 min Scan# 44
Delta R.T. 0.02 min
Lab File: RAV104.D
Acq: 7 Jan 2011 2:22 am

Tgt Ion: 62 Resp: 9238

Ion	Ratio	Lower	Upper
62	100		
64	28.7	2.5	62.5

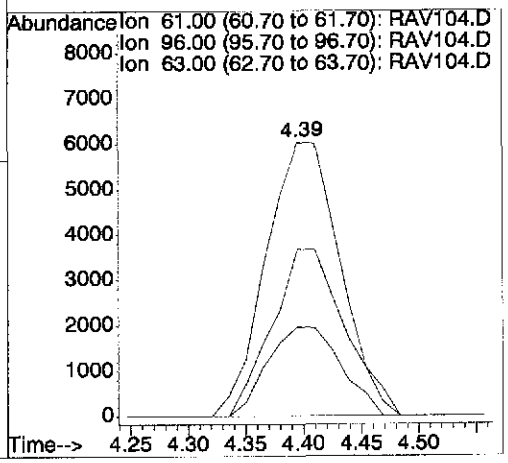


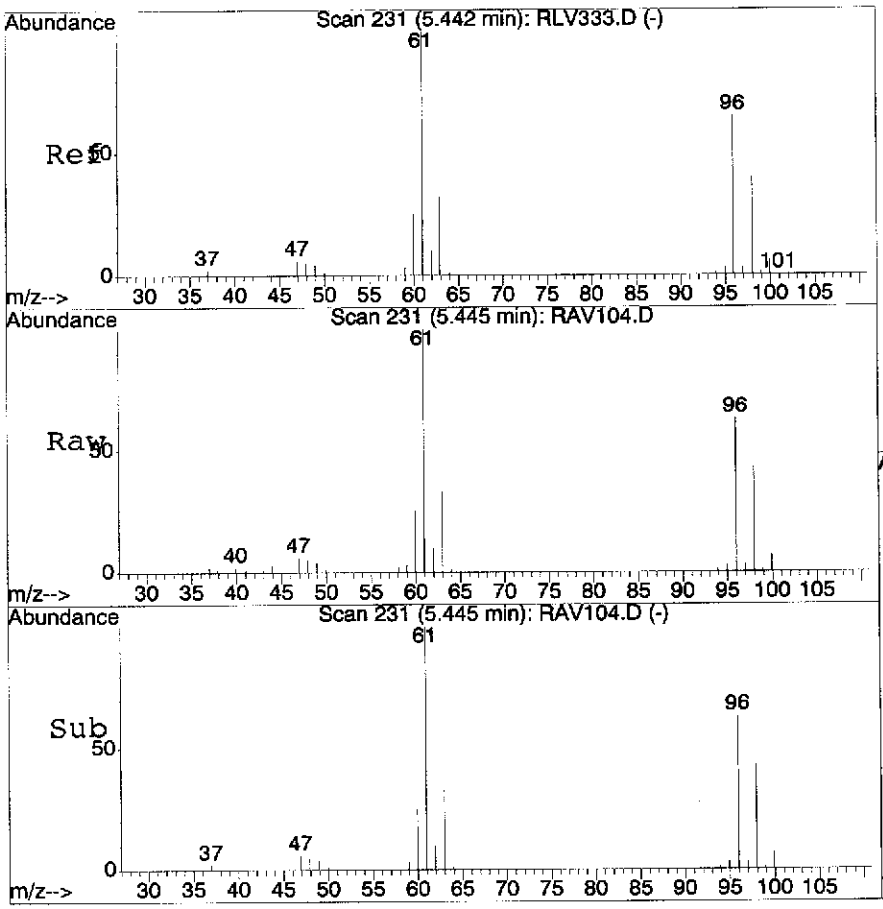


#14
1,1-Dichloroethene
Concen: 0.42 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV104.D
Acq: 7 Jan 2011 2:22 am

Tgt Ion: 61 Resp: 26966

Ion	Ratio	Lower	Upper
61	100		
96	58.4	27.7	87.7
63	31.9	2.0	62.0

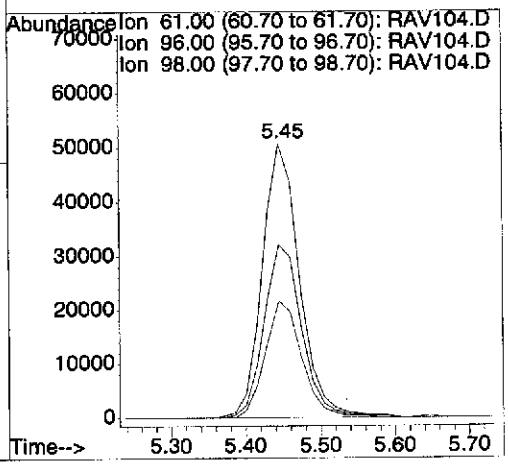


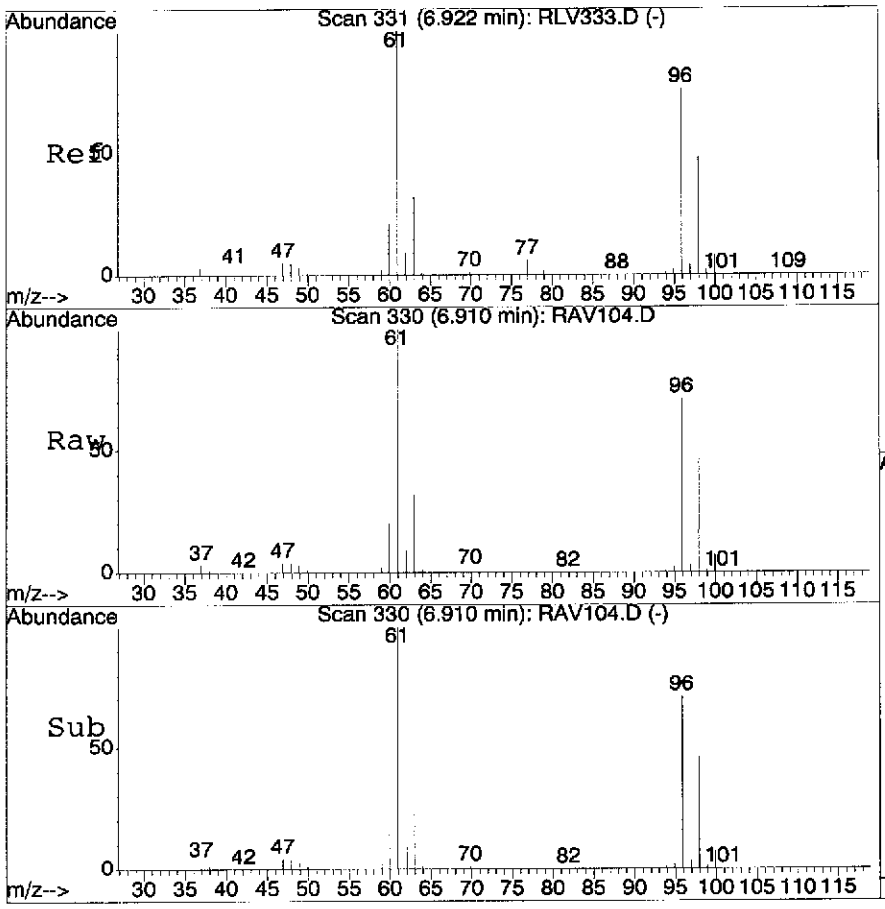


#23
trans-1,2-Dichloroethene
Concen: 2.44 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV104.D
Acq: 7 Jan 2011 2:22 am

Tgt Ion: 61 Resp: 174848

Ion	Ratio	Lower	Upper
61	100		
96	64.4	36.0	96.0
98	42.0	11.6	71.6

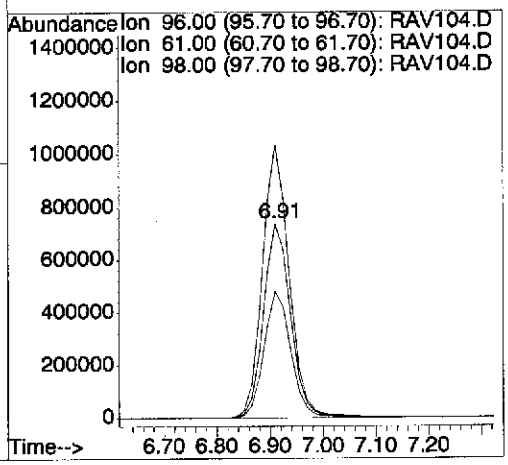


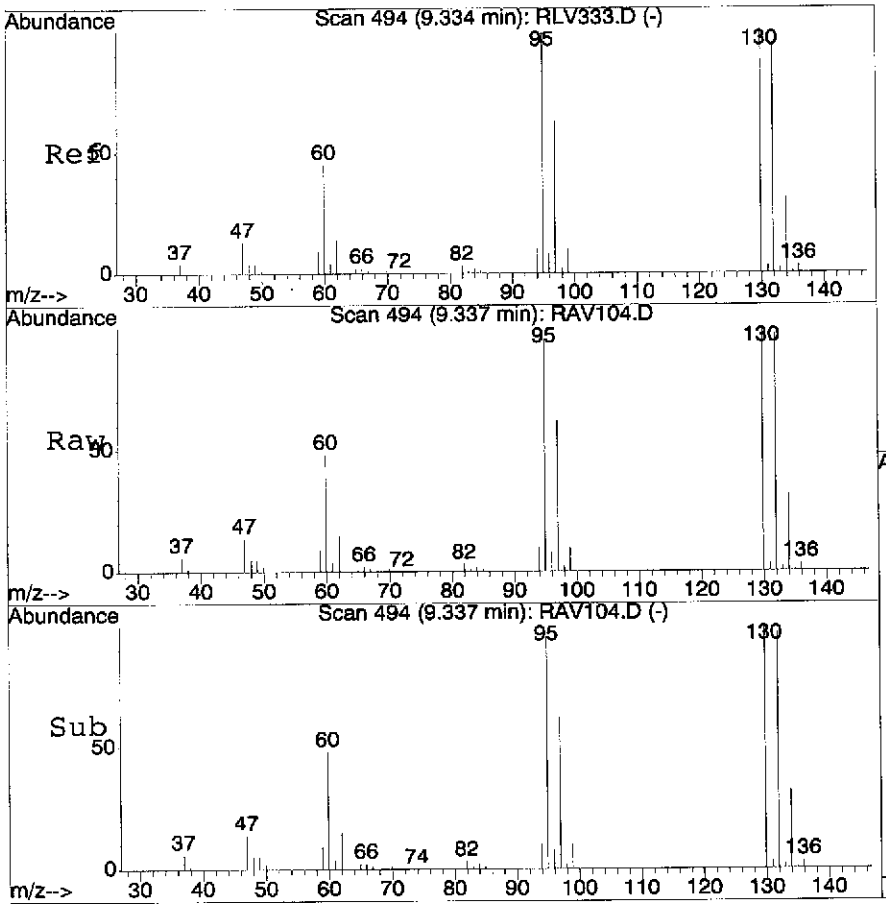


#31
cis-1,2-Dichloroethene
Concen: 50.56 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV104.D
Acq: 7 Jan 2011 2:22 am

Tgt Ion: 96 Resp: 2606194

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.3	183.3
98	64.8	33.4	93.4

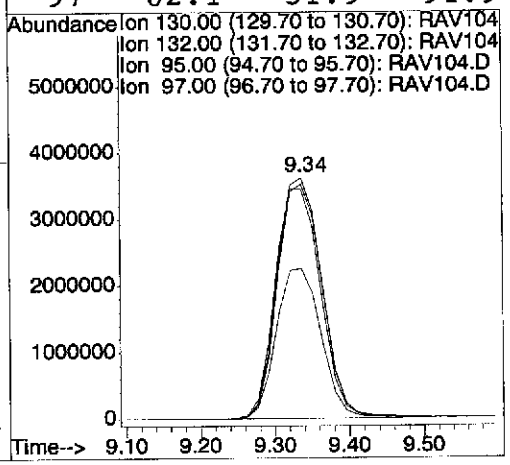




#46
Trichloroethene
Concen: 301.04 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV104.D
Acq: 7 Jan 2011 2:22 am

Tgt Ion:130 Resp:15205531

Ion	Ratio	Lower	Upper
130	100		
132	96.5	64.2	124.2
95	96.4	67.2	127.2
97	62.1	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 00:12
Sample ID:	SSI-GW-004DL	Date Analyzed:	01/07/11 00:12
Lab Samp ID:	A027-04T	Dilution Factor:	10
Lab File ID:	RAV100	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	54	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.7J	10	2.0
TRICHLOROETHENE	420	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	101	100.0	101	70-120
4-BROMOFLUOROBENZENE	106	100.0	106	75-120
TOLUENE-D8	98.8	100.0	98.8	85-120
DIBROMOFLUOROMETHANE	101	100.0	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV100.D
Acq On : 7 Jan 2011 12:12 am
Sample : 11A027-04T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 18
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1340545	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1196596	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	413458	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	403889	10.06	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.60%	
40) 1,2-Dichloroethane-d4	8.21	65	316532	10.08	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.80%	
55) Toluene-d8	11.30	98	1540572	9.88	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.80%	
76) 4-Bromofluorobenzene	16.31	95	499153	10.65	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.50%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.44	61	18851	0.27	ug/l	97
31) cis-1,2-Dichloroethene	6.91	96	266851	5.37	ug/l	91
46) Trichloroethene	9.34	130	2071479	41.94	ug/l	100

(#) = qualifier out of range (m) = manual integration

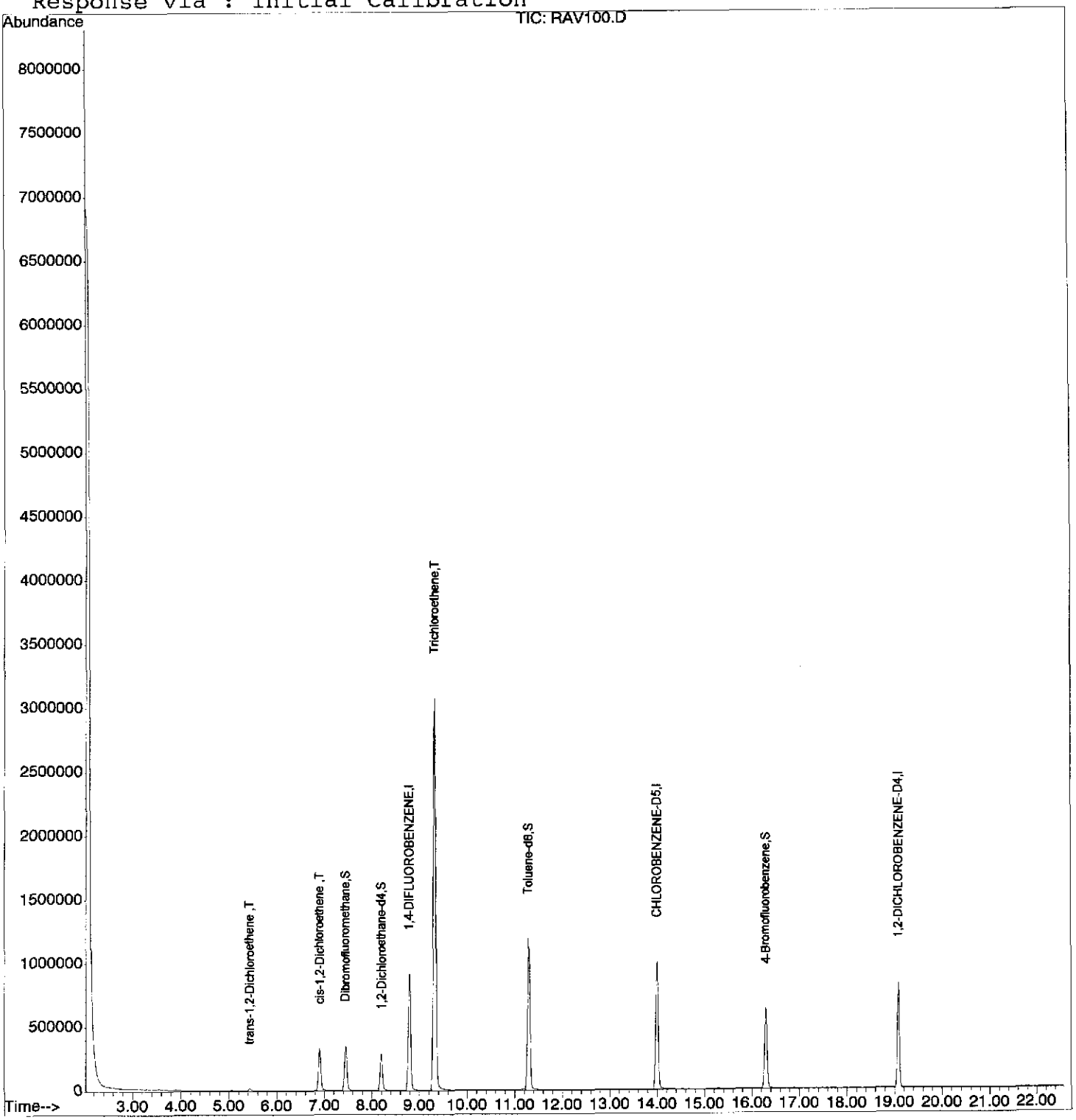
Quantitation Report

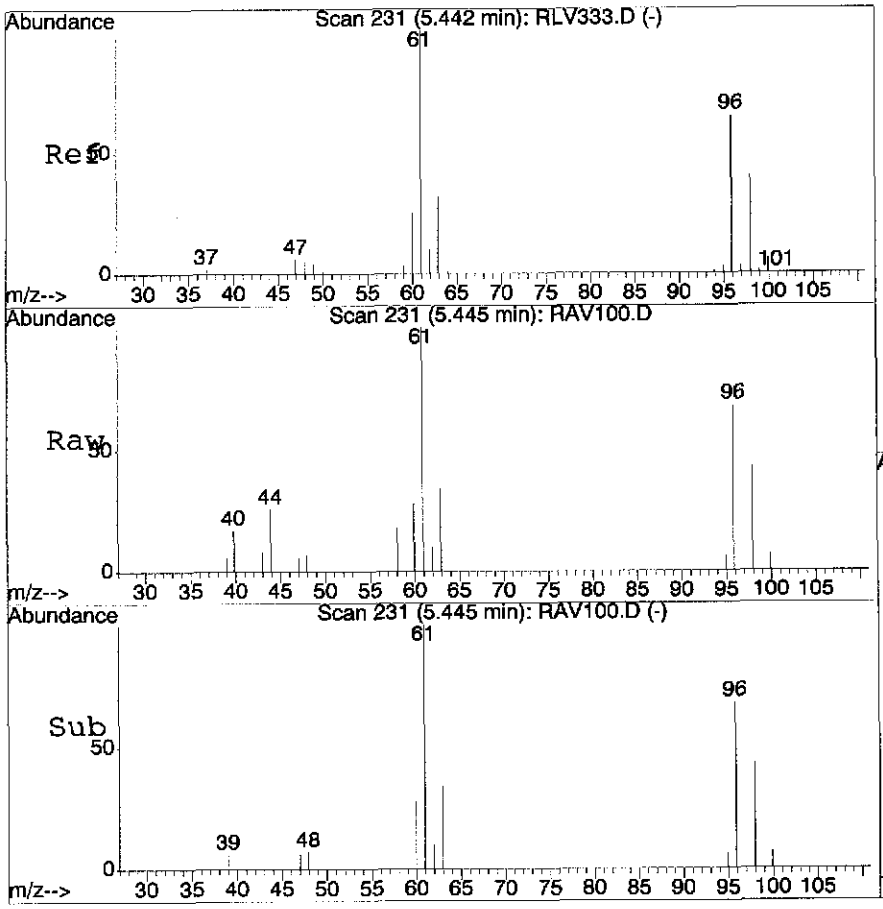
Data File : D:\HPCHEM\1\DATA\11A06\RAV100.D
Acq On : 7 Jan 2011 12:12 am
Sample : 11A027-04T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 6:17 2011

Vial: 18
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

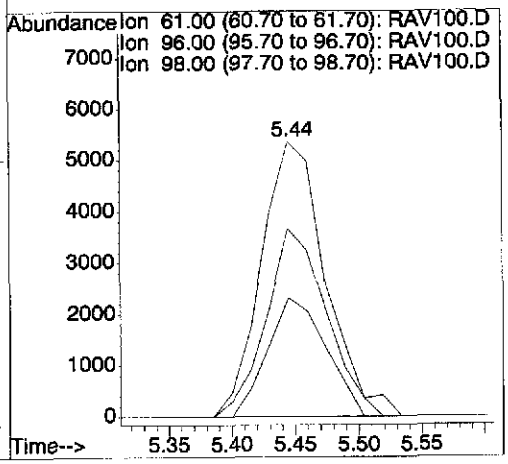


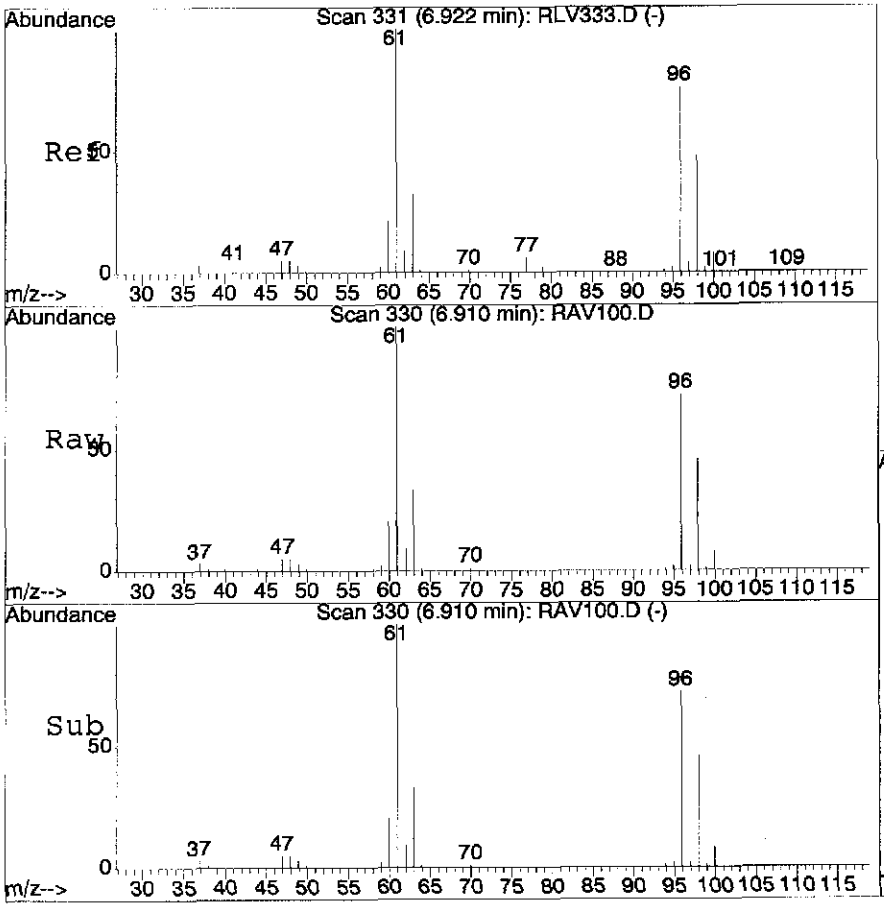


#23
trans-1,2-Dichloroethene
Concen: 0.27 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV100.D
Acq: 7 Jan 2011 12:12 am

Tgt Ion: 61 Resp: 18851

Ion	Ratio	Lower	Upper
61	100		
96	64.2	36.0	96.0
98	39.1	11.6	71.6

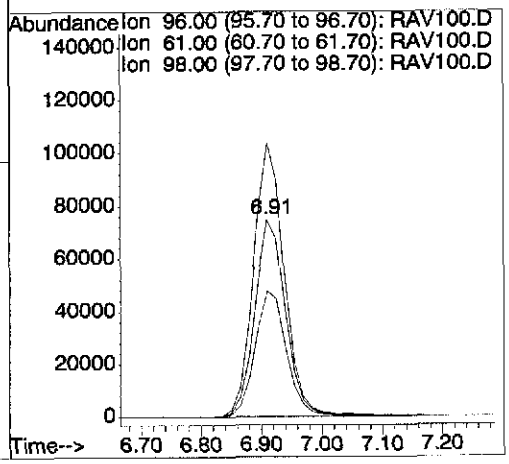


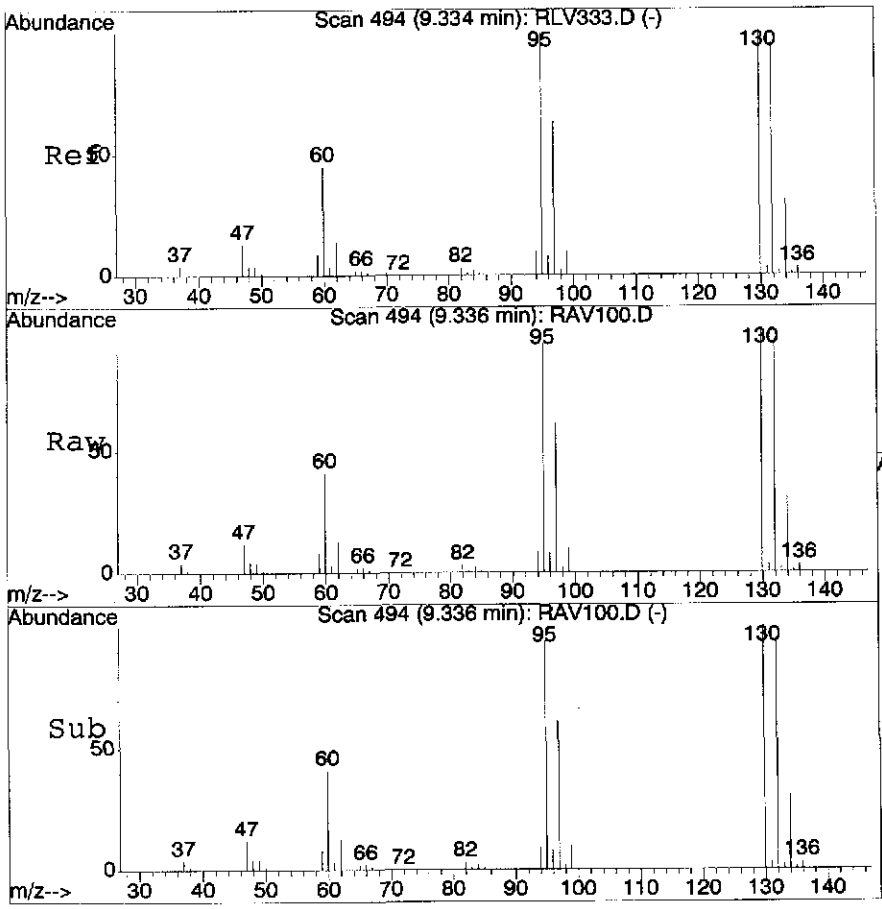


#31
cis-1,2-Dichloroethene
Concen: 5.37 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV100.D
Acq: 7 Jan 2011 12:12 am

Tgt Ion: 96 Resp: 266851

Ion	Ratio	Lower	Upper
96	100		
61	138.3	123.3	183.3
98	65.1	33.4	93.4

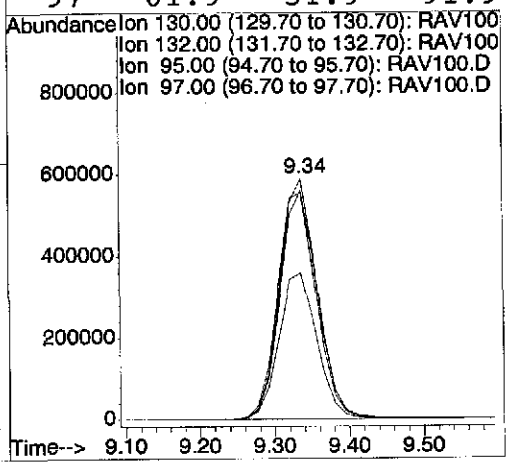




#46
Trichloroethene
Concen: 41.94 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV100.D
Acq: 7 Jan 2011 12:12 am

Tgt Ion:130 Resp: 2071479

Ion	Ratio	Lower	Upper
130	100		
132	94.9	64.2	124.2
95	97.2	67.2	127.2
97	61.9	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 19:17
Sample ID:	SS1-GW-005	Date Analyzed:	01/06/11 19:17
Lab Samp ID:	A027-05R	Dilution Factor:	1
Lab File ID:	RAV091	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	0.23J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	2.8	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.93	10.00	99.3	70-120
4-BROMOFLUOROBENZENE	10.4	10.00	104	75-120
TOLUENE-D8	9.98	10.00	99.8	85-120
DIBROMOFLUOROMETHANE	9.94	10.00	99.4	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV091.D
Acq On : 6 Jan 2011 7:17 pm
Sample : 11A027-05R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:03 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1408341	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1238857	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	438886	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	419499	9.94	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.40%	
40) 1,2-Dichloroethane-d4	8.21	65	327770	9.93	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.30%	
55) Toluene-d8	11.30	98	1610247	9.98	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.80%	
76) 4-Bromofluorobenzene	16.30	95	519849	10.45	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	104.50%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.91	96	11756	0.23	ug/l	86
46) Trichloroethene	9.34	130	145257	2.84	ug/l	99

(#) = qualifier out of range (m) = manual integration
RAV091.D VO01L11.M Fri Jan 07 06:03:51 2011

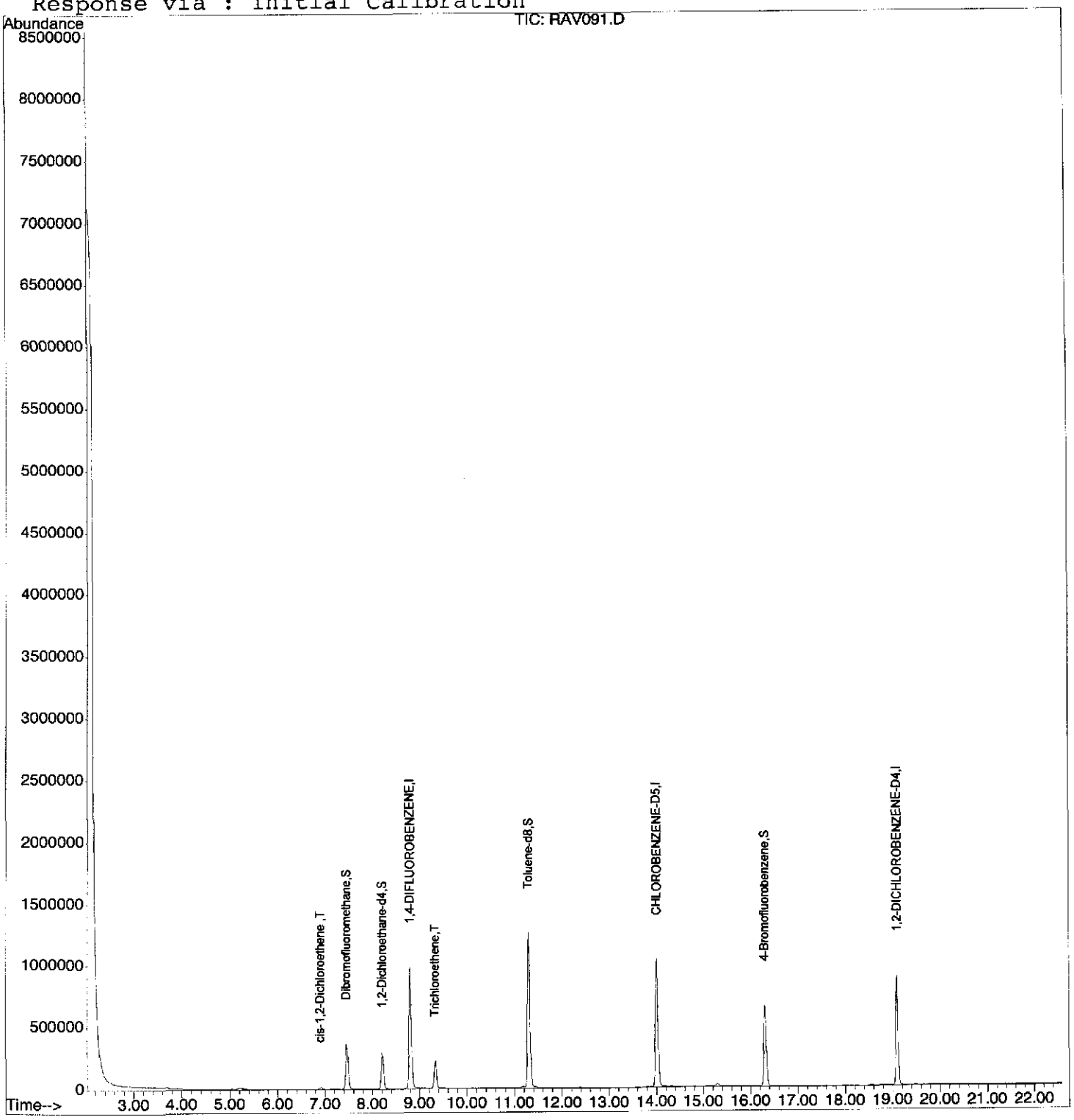
Quantitation Report

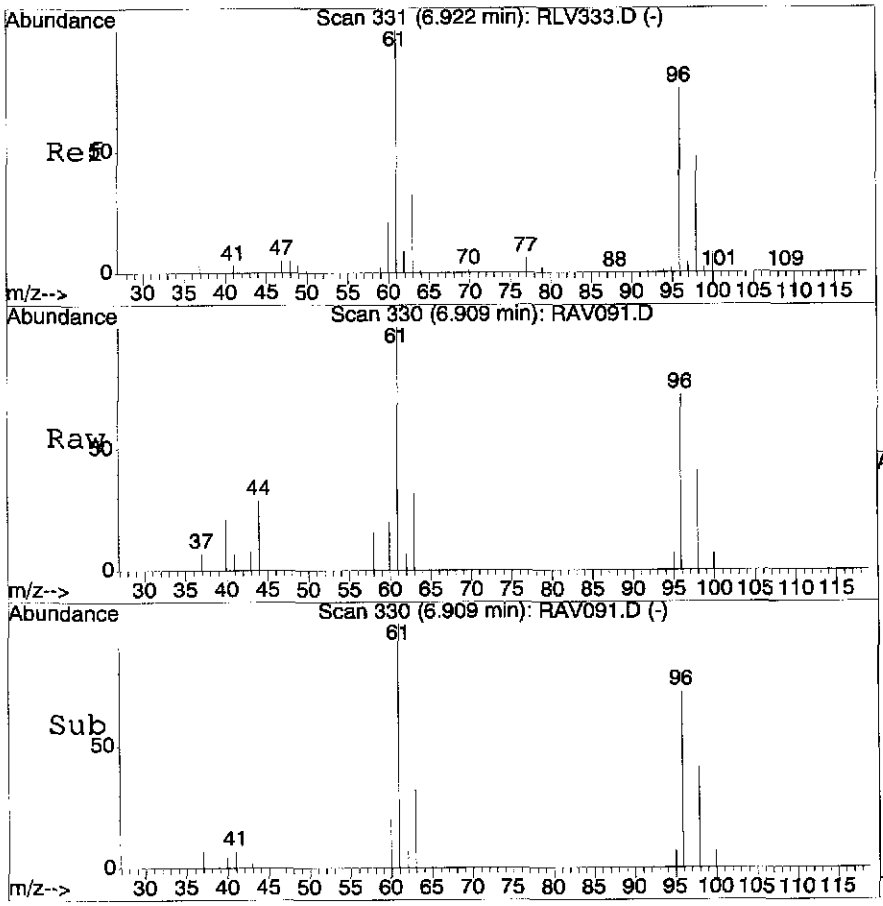
Data File : D:\HPCHEM\1\DATA\11A06\RAV091.D
Acq On : 6 Jan 2011 7:17 pm
Sample : 11A027-05R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:03 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

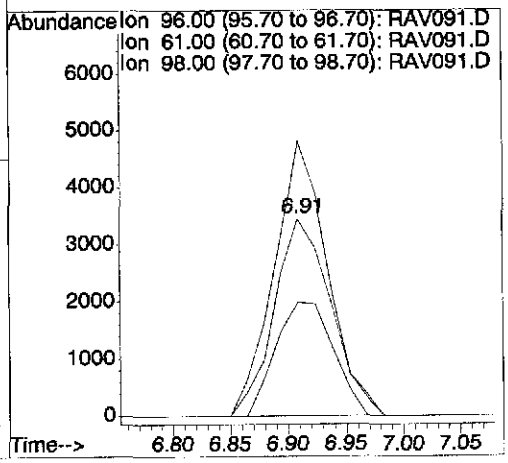


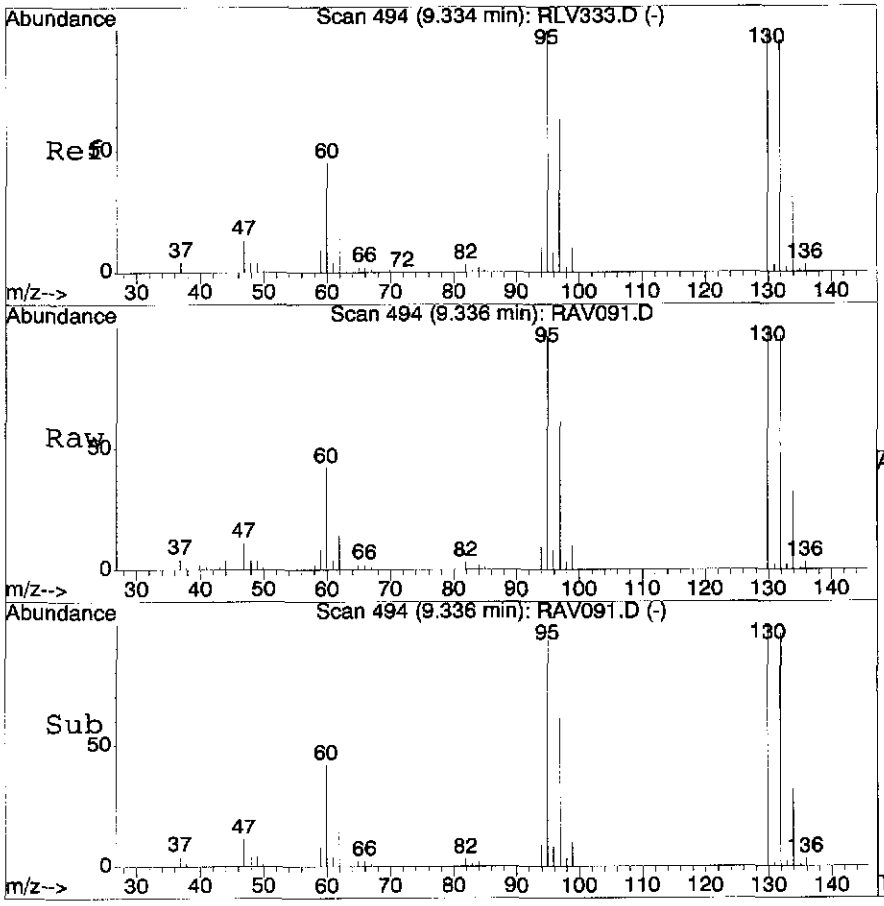


#31
cis-1,2-Dichloroethene
Concen: 0.23 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV091.D
Acq: 6 Jan 2011 7:17 pm

Tgt Ion: 96 Resp: 11756

Ion	Ratio	Lower	Upper
96	100		
61	130.8	123.3	183.3
98	58.6	33.4	93.4

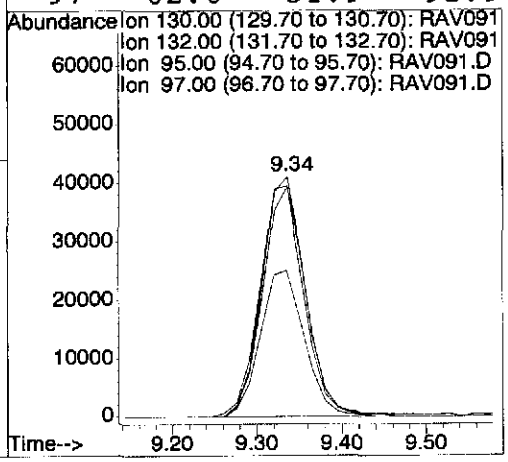




#46
Trichloroethene
Concen: 2.84 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV091.D
Acq: 6 Jan 2011 7:17 pm

Tgt Ion:130 Resp: 145257

Ion	Ratio	Lower	Upper
130	100		
132	94.4	64.2	124.2
95	98.6	67.2	127.2
97	62.0	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 02:55
Sample ID:	SSI-GW-006	Date Analyzed:	01/07/11 02:55
Lab Samp ID:	A027-06R	Dilution Factor:	1
Lab File ID:	RAV105	Matrix	: WATER
Ext Btch ID:	V001A05	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.42J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	36	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.98J	1.0	0.20
TRICHLOROETHENE	350E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.92	10.00	99.2	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV105.D
Acq On : 7 Jan 2011 2:55 am
Sample : 11A027-06R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:12 2011

Vial: 23
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1435674	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1278674	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	442916	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	426535	9.92	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.20%	
40) 1,2-Dichloroethane-d4	8.21	65	339340	10.09	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.90%	
55) Toluene-d8	11.32	98	1627724	9.77	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.70%	
76) 4-Bromofluorobenzene	16.32	95	529052	10.53	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.30%	
Target Compounds						Qvalue
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	6961	0.30	ug/l	95
14) 1,1-Dichloroethene	4.41	61	27504	0.42	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	72249	0.98	ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	1939090	36.46	ug/l	91
46) Trichloroethene	9.34	130	18472300	349.96	ug/l	98

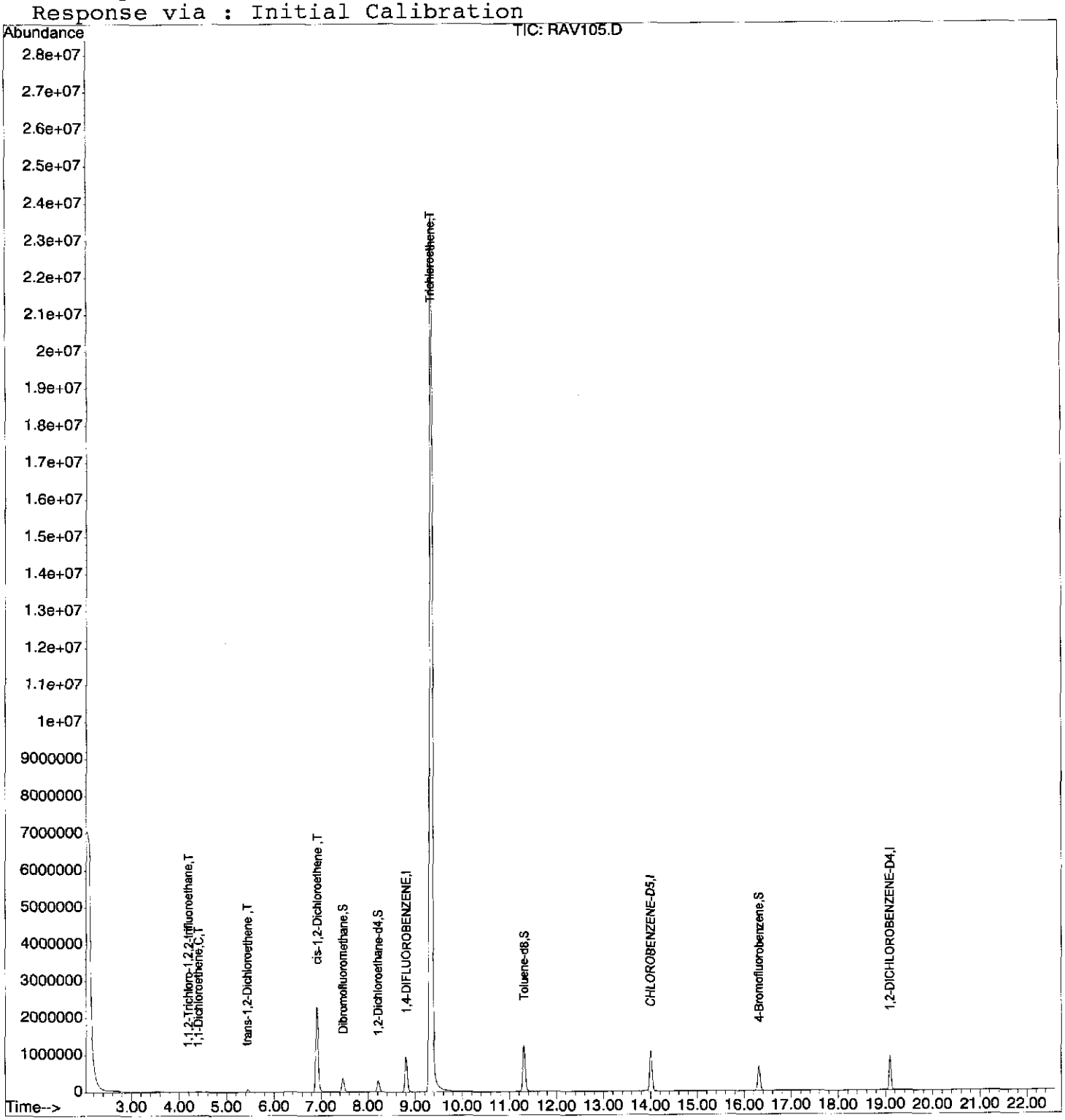
(#) = qualifier out of range (m) = manual integration

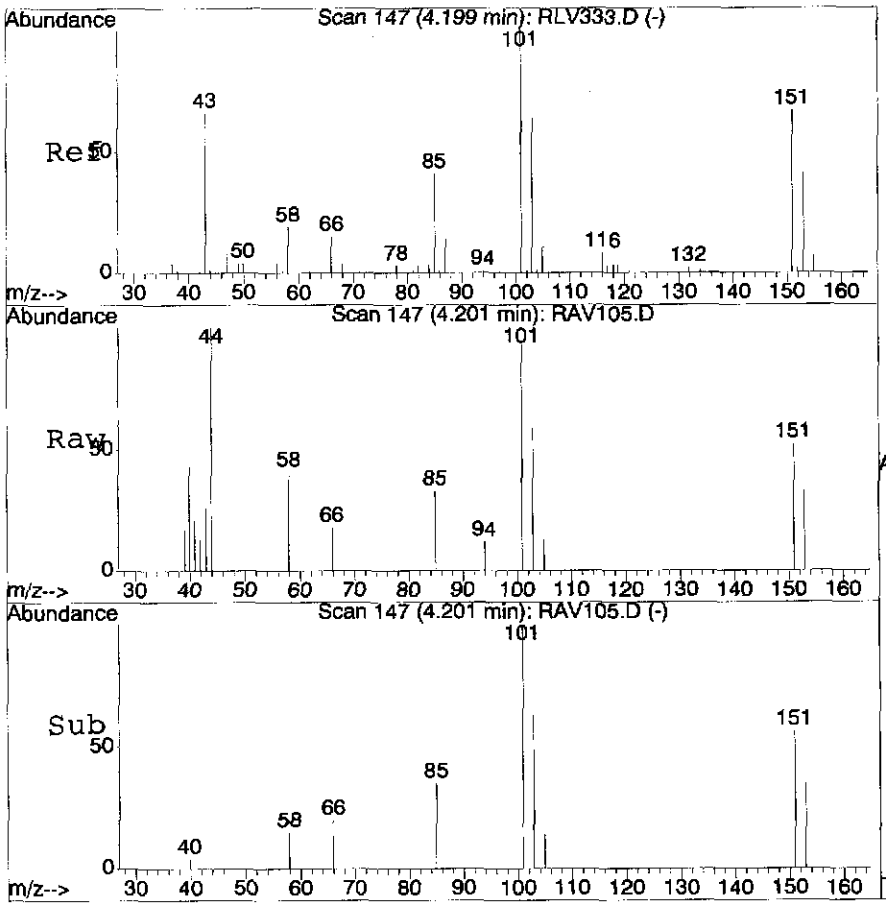
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV105.D
Acq On : 7 Jan 2011 2:55 am
Sample : 11A027-06R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:12 2011

Vial: 23
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

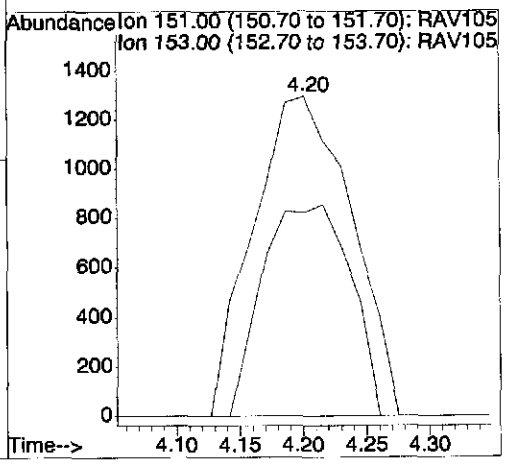


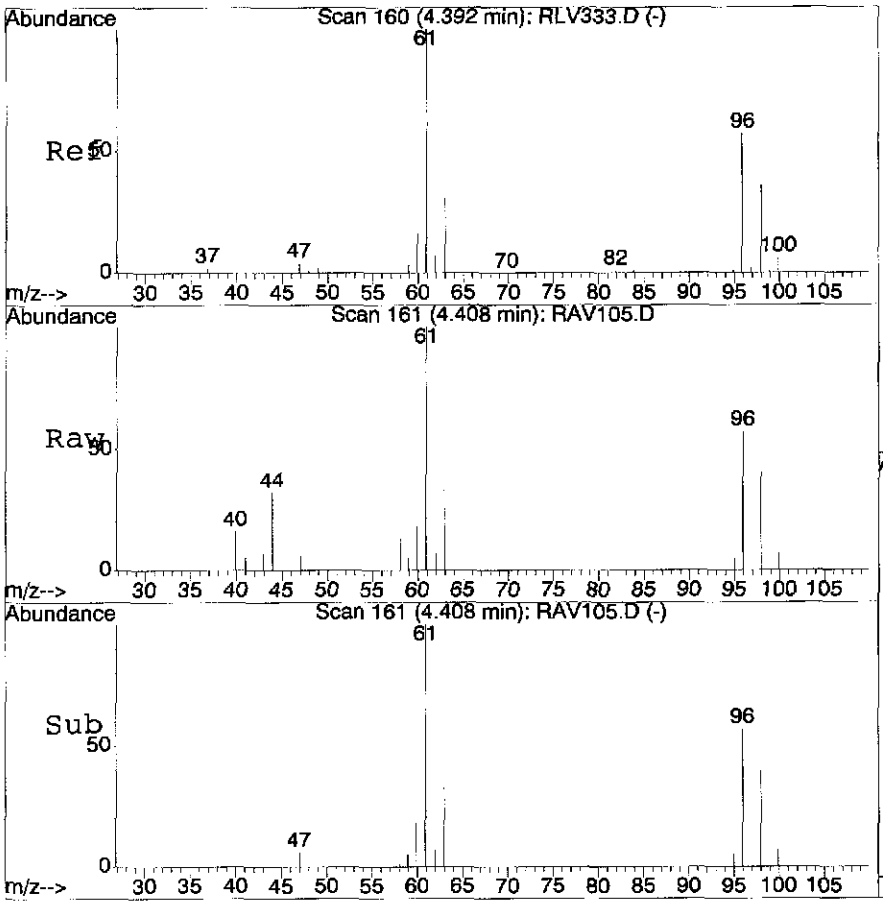


#12
1,1,2-Trichloro-1,2,2-trifluo
Concen: 0.30 ug/l
RT: 4.20 min Scan# 147
Delta R.T. 0.00 min
Lab File: RAV105.D
Acq: 7 Jan 2011 2:55 am

Tgt Ion:151 Resp: 6961

Ion	Ratio	Lower	Upper
151	100		
153	59.0	33.2	93.2

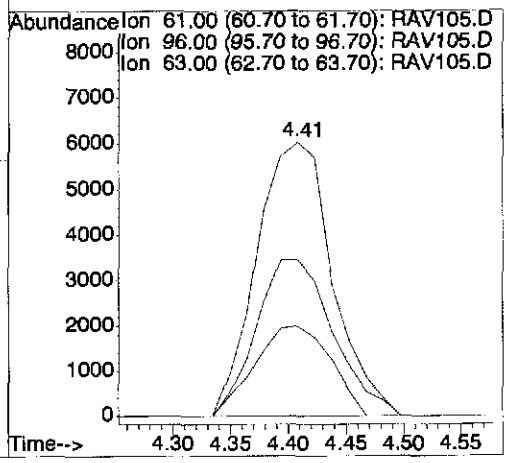


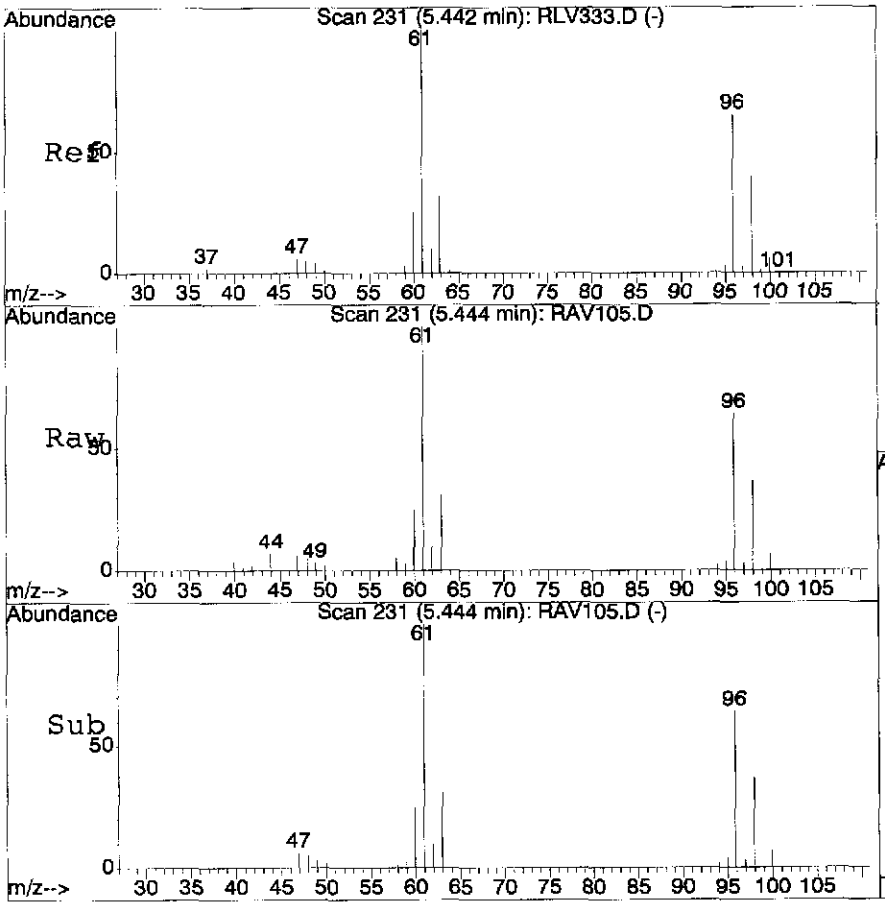


#14
1,1-Dichloroethene
Concen: 0.42 ug/l
RT: 4.41 min Scan# 161
Delta R.T. 0.02 min
Lab File: RAV105.D
Acq: 7 Jan 2011 2:55 am

Tgt Ion: 61 Resp: 27504

Ion	Ratio	Lower	Upper
61	100		
96	58.2	27.7	87.7
63	33.0	2.0	62.0

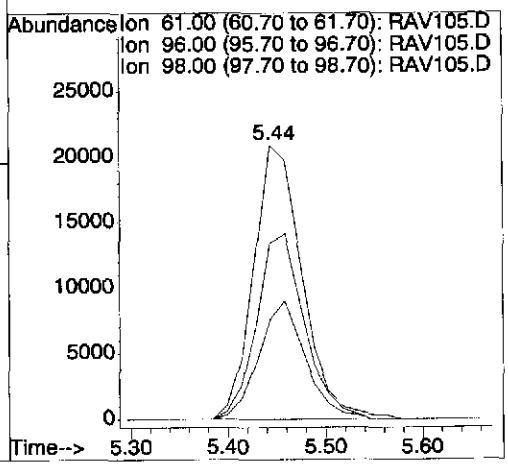


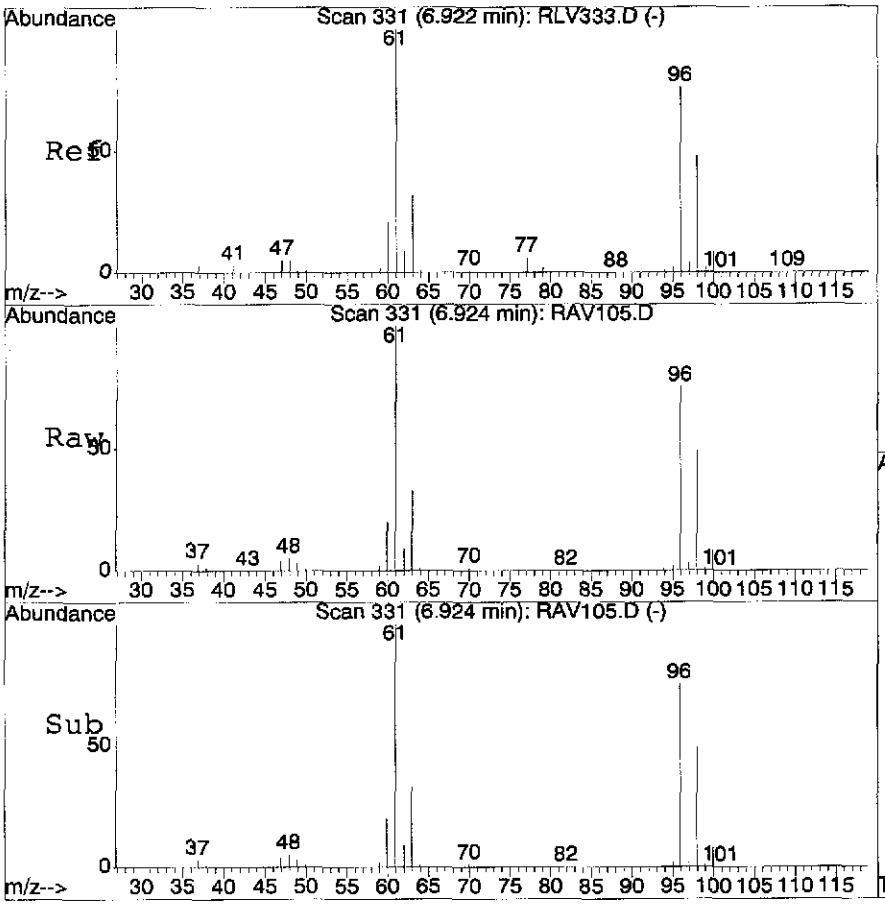


#23
trans-1,2-Dichloroethene
Concen: 0.98 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV105.D
Acq: 7 Jan 2011 2:55 am

Tgt Ion: 61 Resp: 72249

Ion	Ratio	Lower	Upper
61	100		
96	66.5	36.0	96.0
98	41.1	11.6	71.6

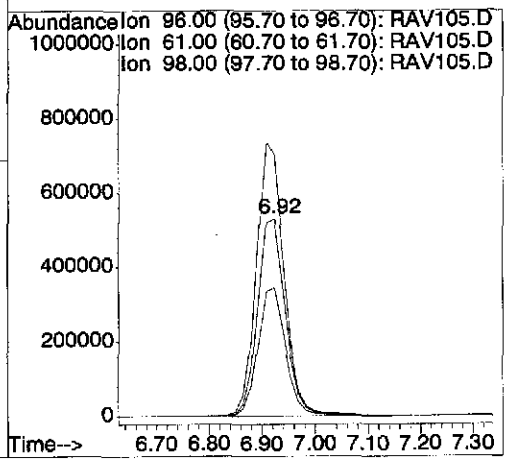


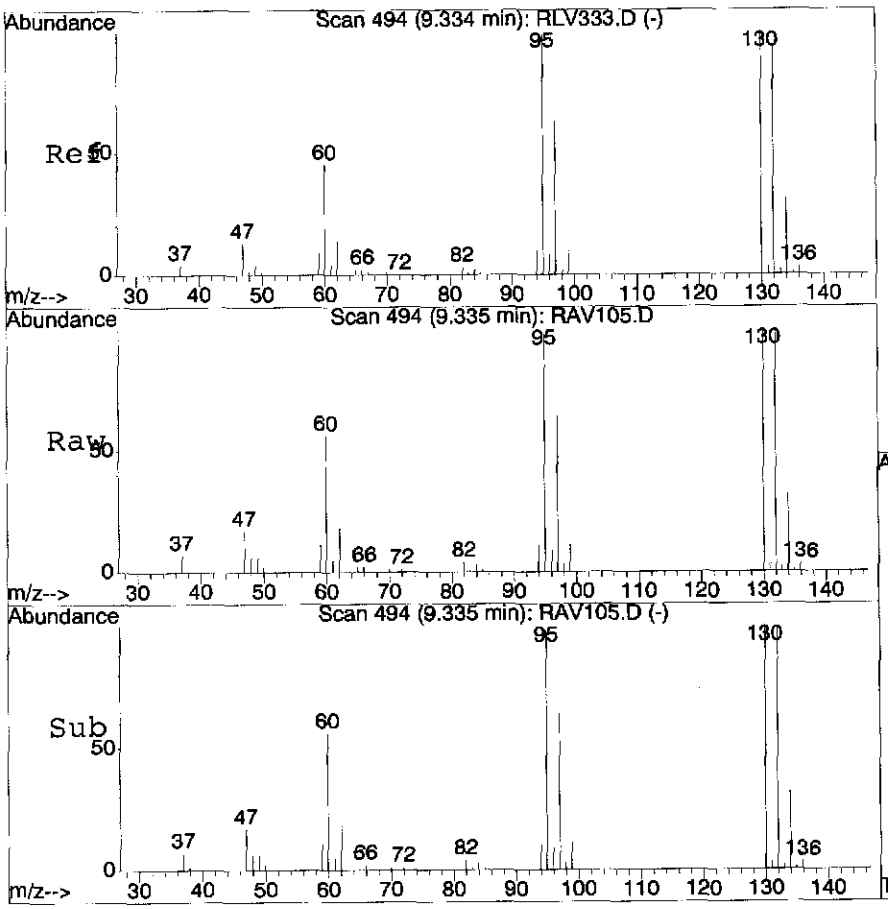


#31
cis-1,2-Dichloroethene
Concen: 36.46 ug/l
RT: 6.92 min Scan# 331
Delta R.T. 0.00 min
Lab File: RAV105.D
Acq: 7 Jan 2011 2:55 am

Tgt Ion: 96 Resp: 1939090

Ion	Ratio	Lower	Upper
96	100		
61	137.8	123.3	183.3
98	64.8	33.4	93.4

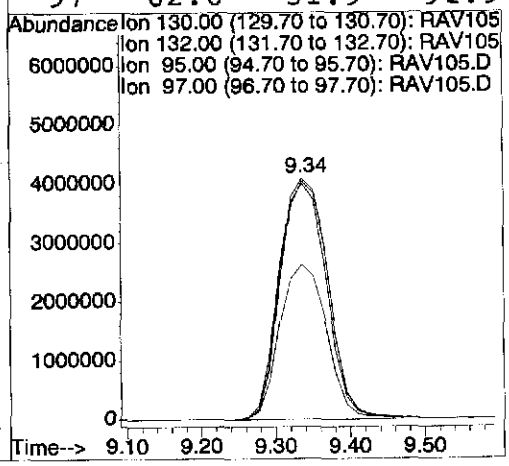




#46
Trichloroethene
Concen: 349.96 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV105.D
Acq: 7 Jan 2011 2:55 am

Tgt Ion:130 Resp:18472300

Ion	Ratio	Lower	Upper
130	100		
132	97.3	64.2	124.2
95	96.7	67.2	127.2
97	62.6	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 07:53
Sample ID:	SSI-GW-006DL	Date Analyzed:	01/07/11 07:53
Lab Samp ID:	A027-06T	Dilution Factor:	50
Lab File ID:	RAV114	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	43J	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	ND	50	10
TRICHLOROETHENE	620	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	547	500.0	109	70-120
4-BROMOFLUOROBENZENE	510	500.0	102	75-120
TOLUENE-D8	480	500.0	95.9	85-120
DIBROMOFLUOROMETHANE	526	500.0	105	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV114.D
Acq On : 7 Jan 2011 7:53 am
Sample : 11A027-06T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 7 10:03 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1286901	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1165178	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	427036	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	405452	10.51	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.10%	
40) 1,2-Dichloroethane-d4	8.21	65	330178	10.95	ug/l	0.00
Spiked Amount 10.000			Recovery	=	109.50%	
55) Toluene-d8	11.32	98	1455669	9.59	ug/l	0.00
Spiked Amount 10.000			Recovery	=	95.90%	
76) 4-Bromofluorobenzene	16.32	95	494327	10.21	ug/l	0.00
Spiked Amount 10.000			Recovery	=	102.10%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.92	96	41195	0.86	ug/l	93
46) Trichloroethene	9.34	130	596697	12.41	ug/l	100

(#) = qualifier out of range (m) = manual integration

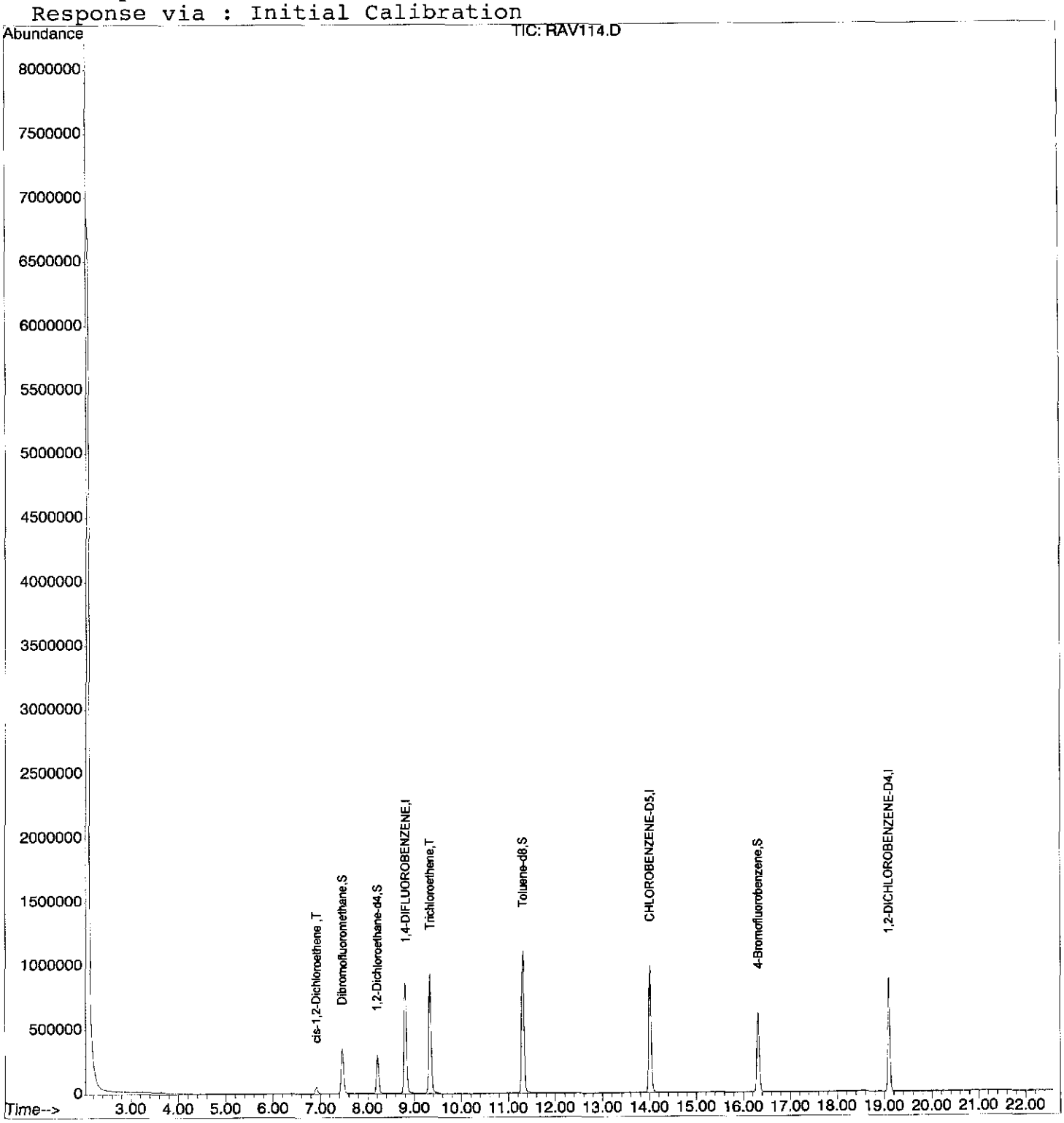
Quantitation Report

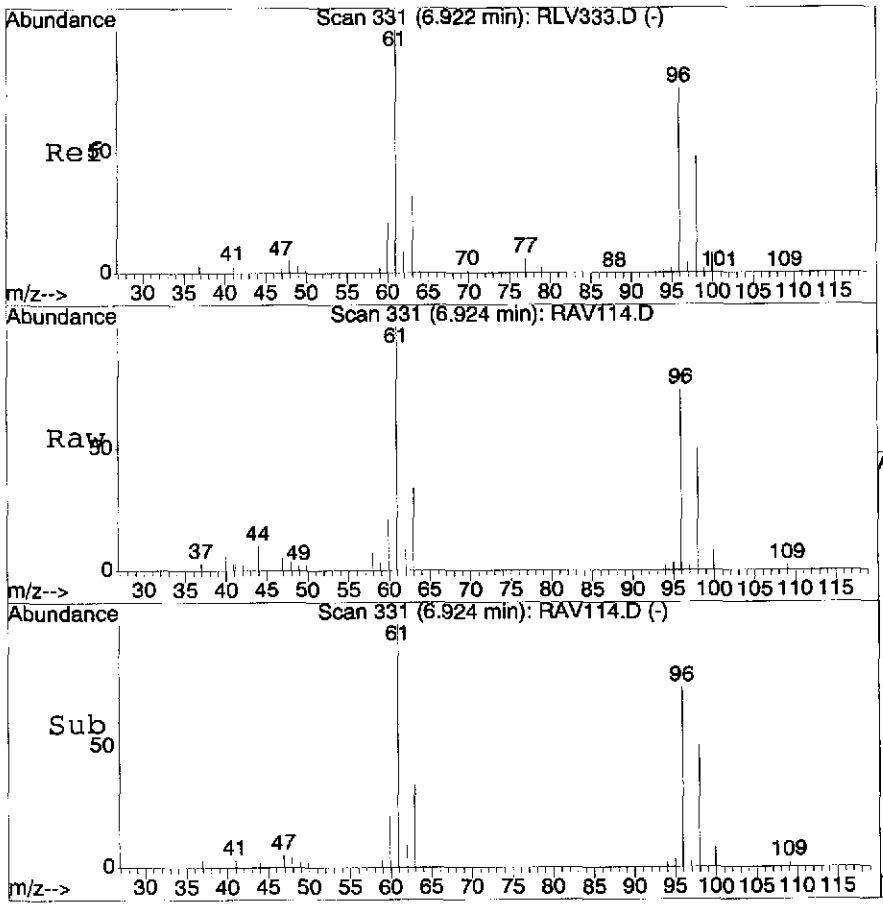
Data File : D:\HPCHEM\1\DATA\11A06\RAV114.D
Acq On : 7 Jan 2011 7:53 am
Sample : 11A027-06T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 7 10:03 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

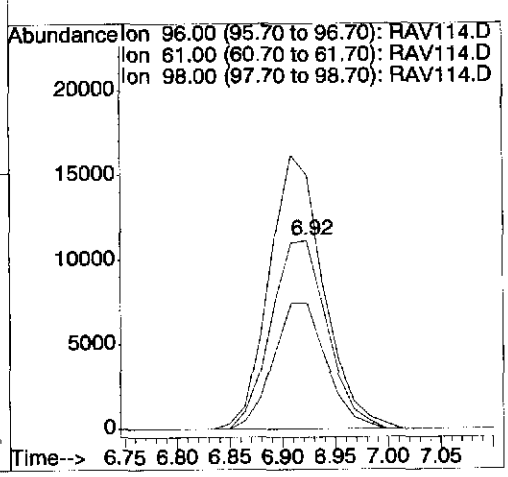


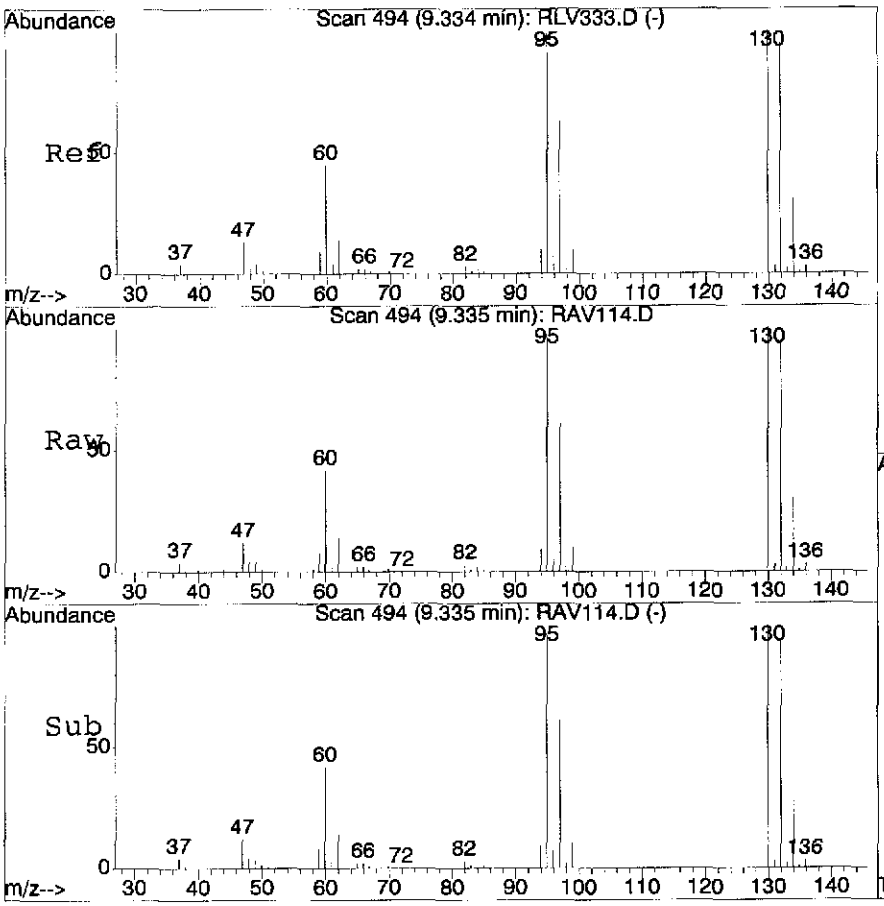


#31
cis-1,2-Dichloroethene
Concen: 0.86 ug/l
RT: 6.92 min Scan# 331
Delta R.T. 0.00 min
Lab File: RAV114.D
Acq: 7 Jan 2011 7:53 am

Tgt Ion: 96 Resp: 41195

Ion	Ratio	Lower	Upper
96	100		
61	140.9	123.3	183.3
98	63.4	33.4	93.4

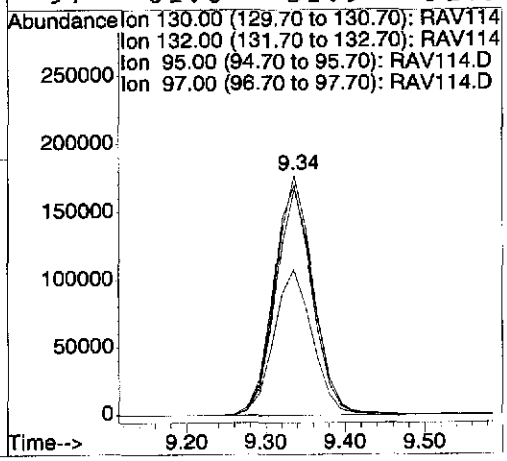




#46
Trichloroethene
Concen: 12.41 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV114.D
Acq: 7 Jan 2011 7:53 am

Tgt Ion:130 Resp: 596697

Ion	Ratio	Lower	Upper
130	100		
132	94.1	64.2	124.2
95	97.8	67.2	127.2
97	61.8	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 01:17
Sample ID:	SSI-GW-007	Date Analyzed:	01/07/11 01:17
Lab Samp ID:	A027-07	Dilution Factor:	1
Lab File ID:	RAV102	Matrix	: WATER
Ext Btch ID:	V001A05	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.57J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	130E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	4.2	1.0	0.20
TRICHLOROETHENE	140E	1.0	0.20
VINYL CHLORIDE	0.39J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.71	10.00	97.1	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.95	10.00	99.5	85-120
DIBROMOFLUOROMETHANE	9.73	10.00	97.3	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV102.D
Acq On : 7 Jan 2011 1:17 am
Sample : 11A027-07 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:10 2011

Vial: 20
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1442102	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1261885	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	429552	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	420514	9.73	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.30%	
40) 1,2-Dichloroethane-d4	8.21	65	328080	9.71	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.10%	
55) Toluene-d8	11.30	98	1634731	9.95	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.50%	
76) 4-Bromofluorobenzene	16.31	95	510530	10.48	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	104.80%	
Target Compounds						Qvalue
5) Vinyl chloride	2.68	62	16393	0.39	ug/l	89
14) 1,1-Dichloroethene	4.39	61	37912	0.57	ug/l	100
23) trans-1,2-Dichloroethene	5.45	61	314519	4.23	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	7184893	134.50	ug/l	91
46) Trichloroethene	9.34	130	7182680	137.89	ug/l	99

(#) = qualifier out of range (m) = manual integration

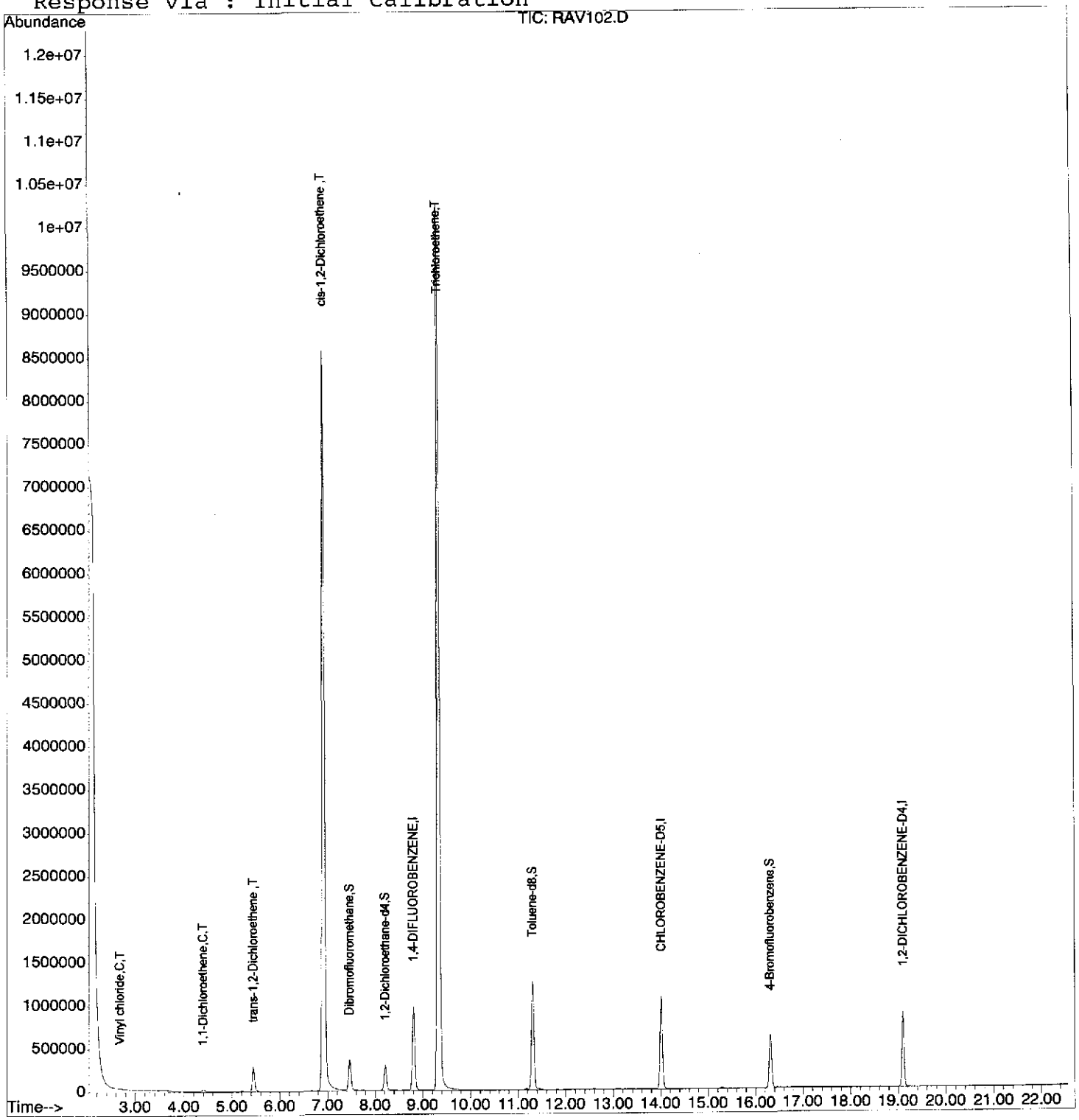
Quantitation Report

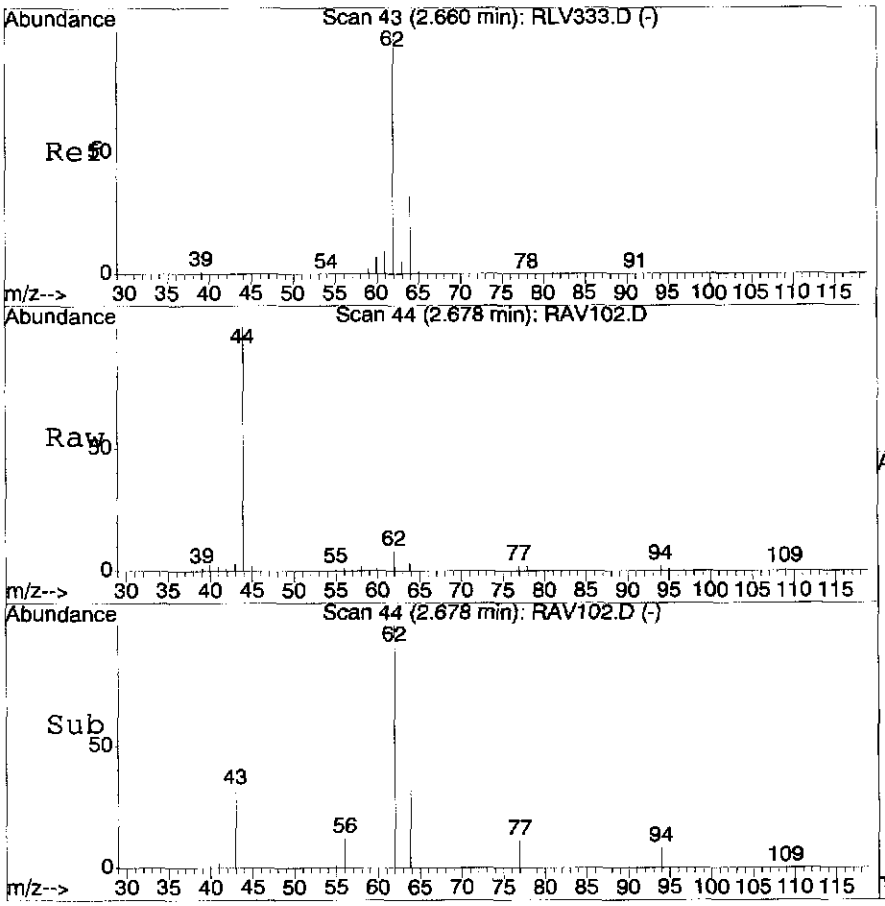
Data File : D:\HPCHEM\1\DATA\11A06\RAV102.D
Acq On : 7 Jan 2011 1:17 am
Sample : 11A027-07 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:10 2011

Vial: 20
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

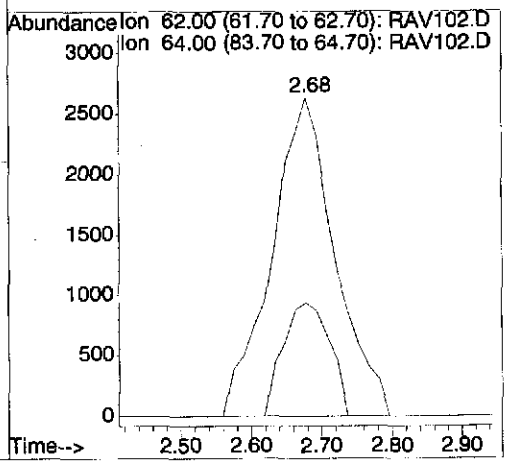


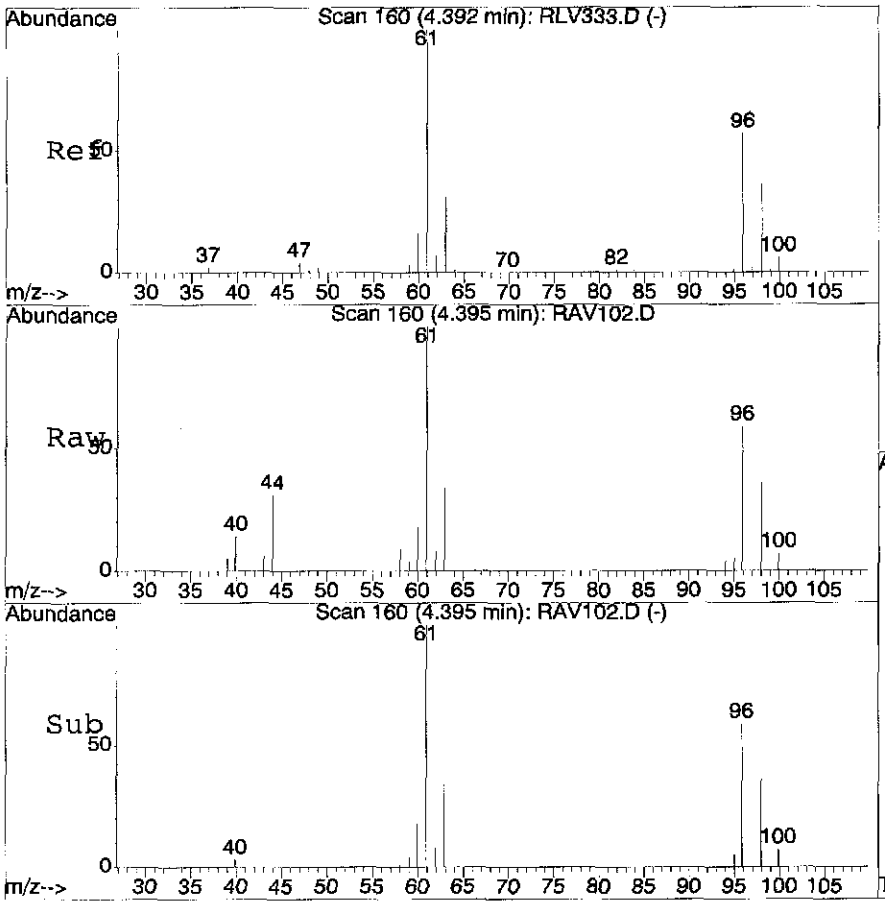


#5
Vinyl chloride
Concen: 0.39 ug/l
RT: 2.68 min Scan# 44
Delta R.T. 0.02 min
Lab File: RAV102.D
Acq: 7 Jan 2011 1:17 am

Tgt Ion: 62 Resp: 16393

Ion	Ratio	Lower	Upper
62	100		
64	26.3	2.5	62.5

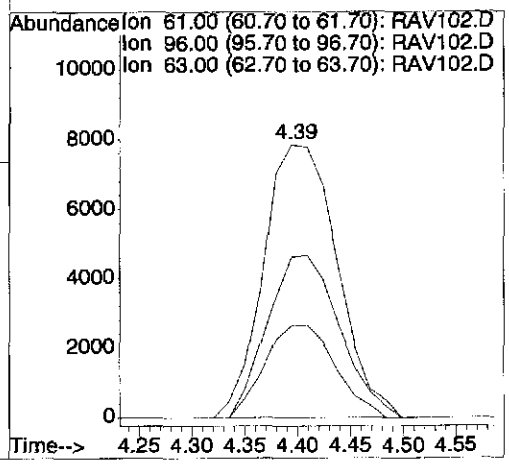


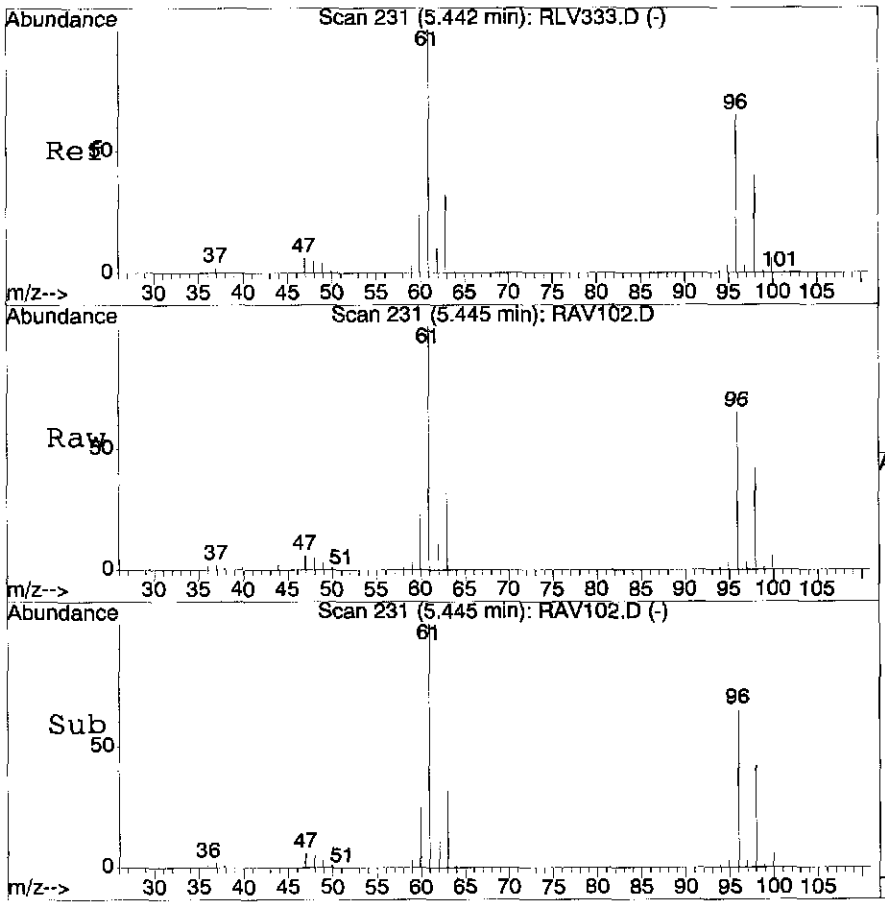


#14
1,1-Dichloroethene
Concen: 0.57 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV102.D
Acq: 7 Jan 2011 1:17 am

Tgt Ion: 61 Resp: 37912

Ion	Ratio	Lower	Upper
61	100		
96	58.1	27.7	87.7
63	32.2	2.0	62.0

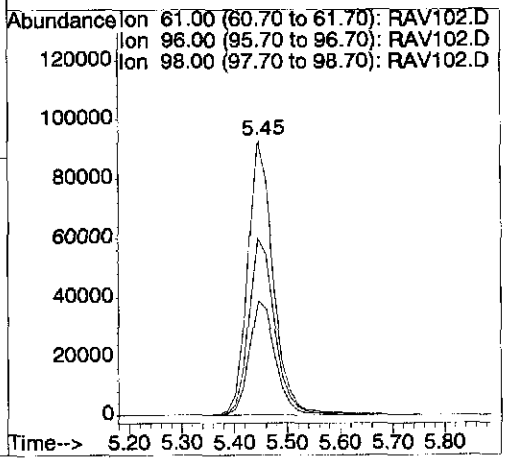


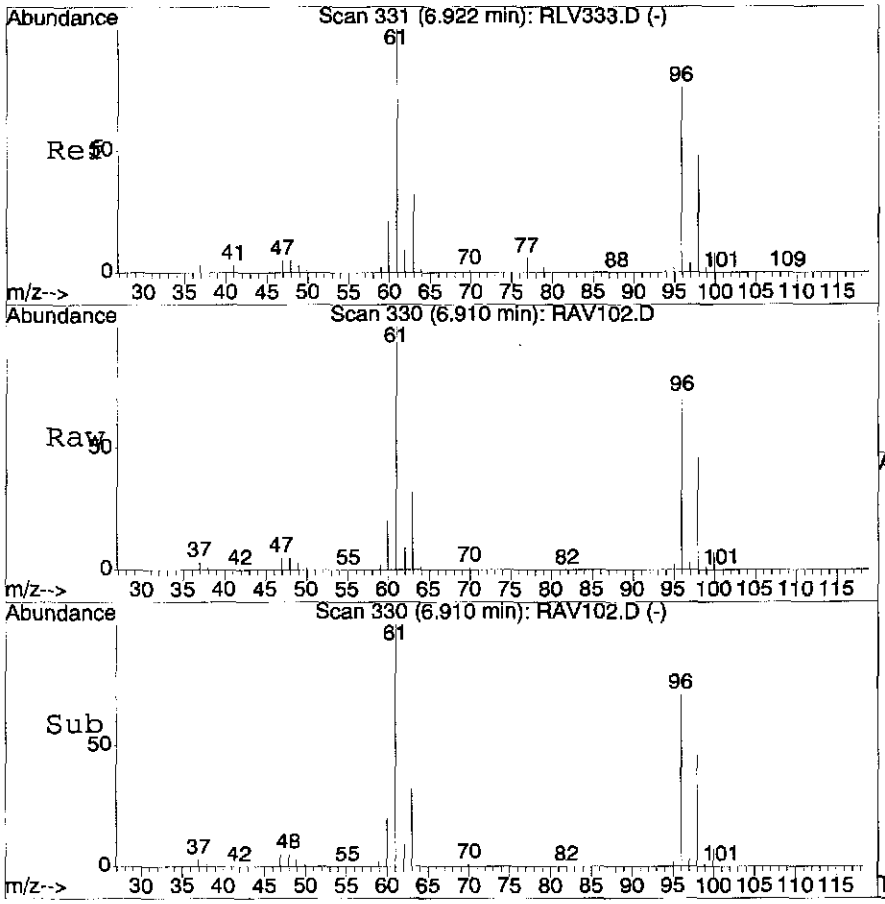


#23
trans-1,2-Dichloroethene
Concen: 4.23 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV102.D
Acq: 7 Jan 2011 1:17 am

Tgt Ion: 61 Resp: 314519

Ion	Ratio	Lower	Upper
61	100		
96	65.6	36.0	96.0
98	42.2	11.6	71.6

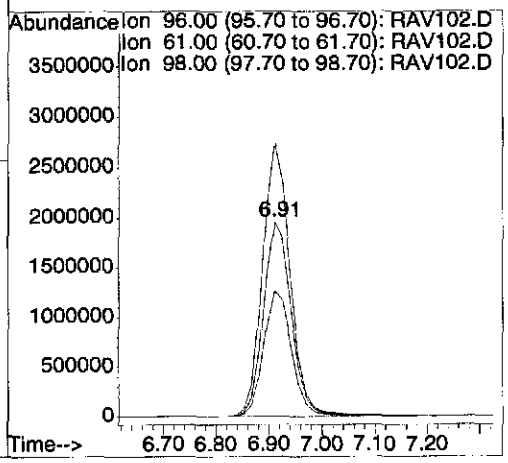


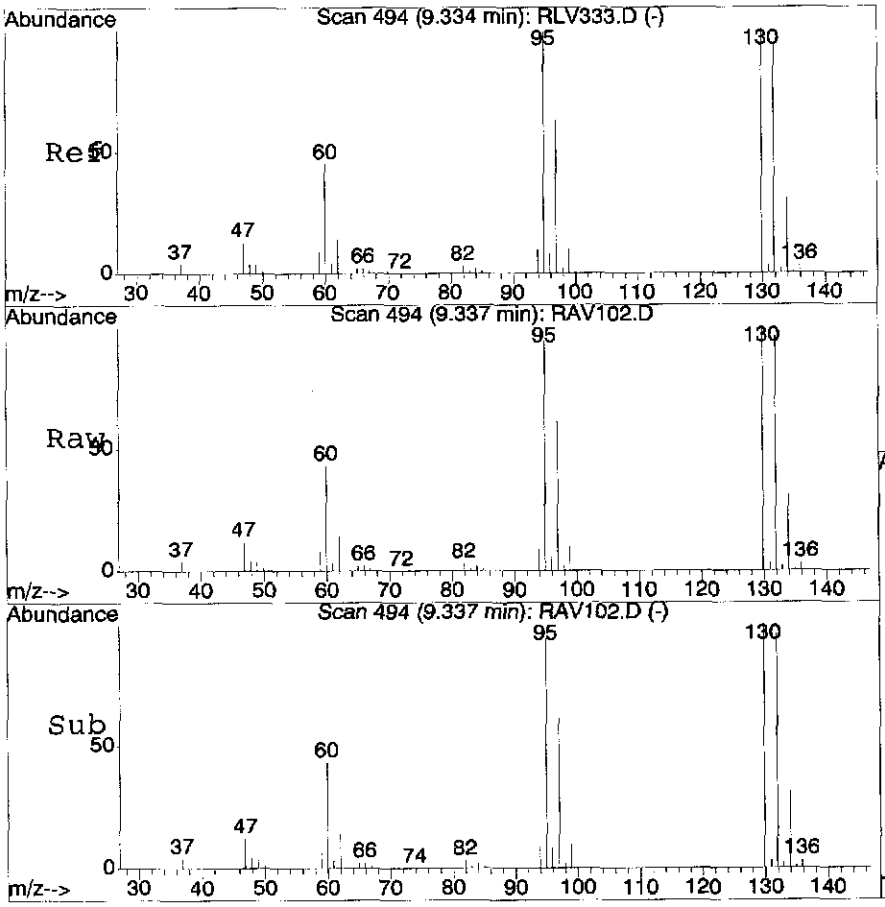


#31
cis-1,2-Dichloroethene
Concen: 134.50 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV102.D
Acq: 7 Jan 2011 1:17 am

Tgt Ion: 96 Resp: 7184893

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.3	183.3
98	65.0	33.4	93.4

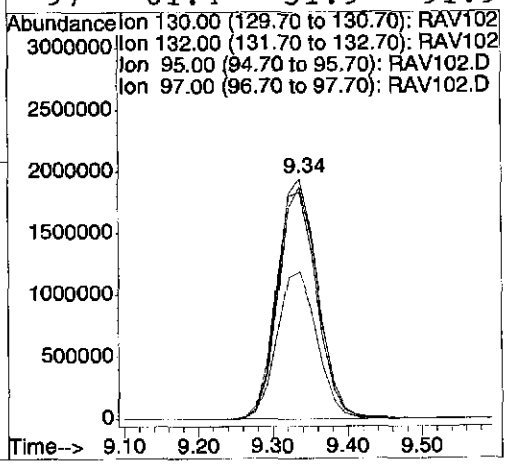




#46
Trichloroethene
Concen: 137.89 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV102.D
Acq: 7 Jan 2011 1:17 am

Tgt Ion:130 Resp: 7182680

Ion	Ratio	Lower	Upper
130	100		
132	95.1	64.2	124.2
95	96.4	67.2	127.2
97	61.4	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/05/11 14:40
Sample ID:	SSI-GW-007DL	Date Analyzed:	01/05/11 14:40
Lab Samp ID:	A027-07T	Dilution Factor:	50
Lab File ID:	RAV056	Matrix :	WATER
Ext Btch ID:	V001A03	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	50	10
1,1,2,2-TETRACHLOROETHANE	ND	50	10
1,1,2-TRICHLOROETHANE	ND	50	10
1,1-DICHLOROETHANE	ND	50	10
1,1-DICHLOROETHENE	ND	50	10
1,2-DICHLOROETHANE	ND	50	10
2-BUTANONE	ND	500	250
2-HEXANONE	ND	500	250
4-METHYL-2-PENTANONE	ND	500	250
BENZENE	ND	50	10
BROMODICHLOROMETHANE	ND	50	10
BROMOFORM	ND	50	15
CARBON DISULFIDE	ND	50	10
CARBON TETRACHLORIDE	ND	50	10
CHLOROBENZENE	ND	50	10
CHLOROETHANE	ND	50	10
CHLOROFORM	ND	50	10
CHLOROMETHANE	ND	50	10
CIS-1,2-DICHLOROETHENE	170	50	10
DIBROMOCHLOROMETHANE	ND	50	10
ETHYLBENZENE	ND	50	10
M/P-XYLENES	ND	100	25
METHYLENE CHLORIDE	ND	50	25
METHYL TERT-BUTYL ETHER	ND	50	10
O-XYLENE	ND	50	10
TETRACHLOROETHENE	ND	50	10
TOLUENE	ND	50	10
TRANS-1,2-DICHLOROETHENE	ND	50	10
TRICHLOROETHENE	180	50	10
VINYL CHLORIDE	ND	50	10
1,2,4-TRIMETHYLBENZENE	ND	50	10
1,3,5-TRIMETHYLBENZENE	ND	50	10
DICHLORODIFLUOROMETHANE	ND	50	15
ISOPROPYLBENZENE	ND	50	10

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	489	500.0	97.7	70-120
4-BROMOFLUOROBENZENE	531	500.0	106	75-120
TOLUENE-D8	490	500.0	97.9	85-120
DIBROMOFLUOROMETHANE	481	500.0	96.1	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV056.D
Acq On : 5 Jan 2011 2:40 pm
Sample : 11A027-07T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 6 6:22 2011

Vial: 15
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1302800	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1128658	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	383902	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	375177	9.61	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.10%	
40) 1,2-Dichloroethane-d4	8.20	65	298313	9.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.70%	
55) Toluene-d8	11.30	98	1439325	9.79	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.90%	
76) 4-Bromofluorobenzene	16.30	95	462040	10.61	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.10%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.91	96	162179	3.36	ug/l	92
46) Trichloroethene	9.32	130	168473	3.62	ug/l	99

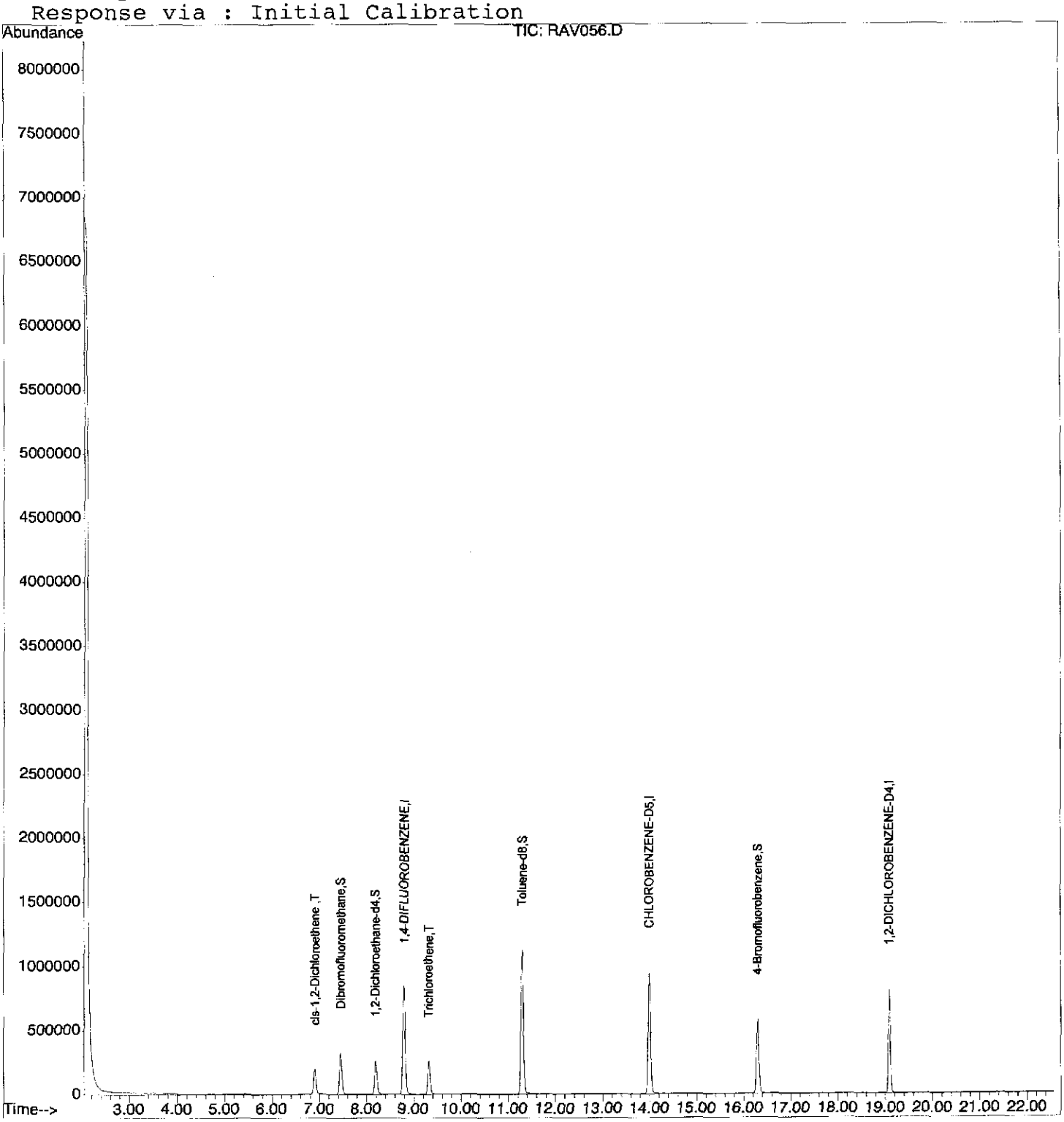
(#) = qualifier out of range (m) = manual integration

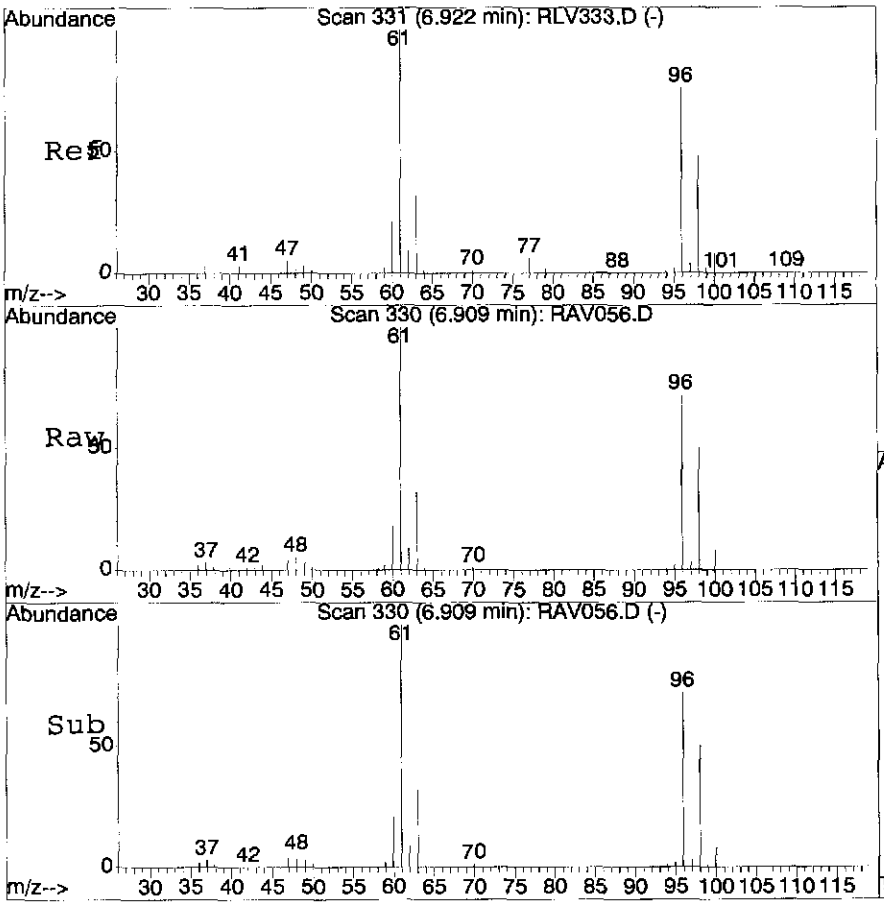
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV056.D
Acq On : 5 Jan 2011 2:40 pm
Sample : 11A027-07T 0.5mL
Misc : DF=50
MS Integration Params: 524C.P
Quant Time: Jan 6 6:22 2011

Vial: 15
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

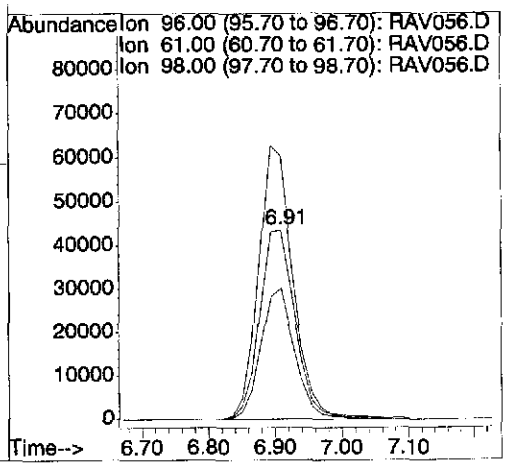


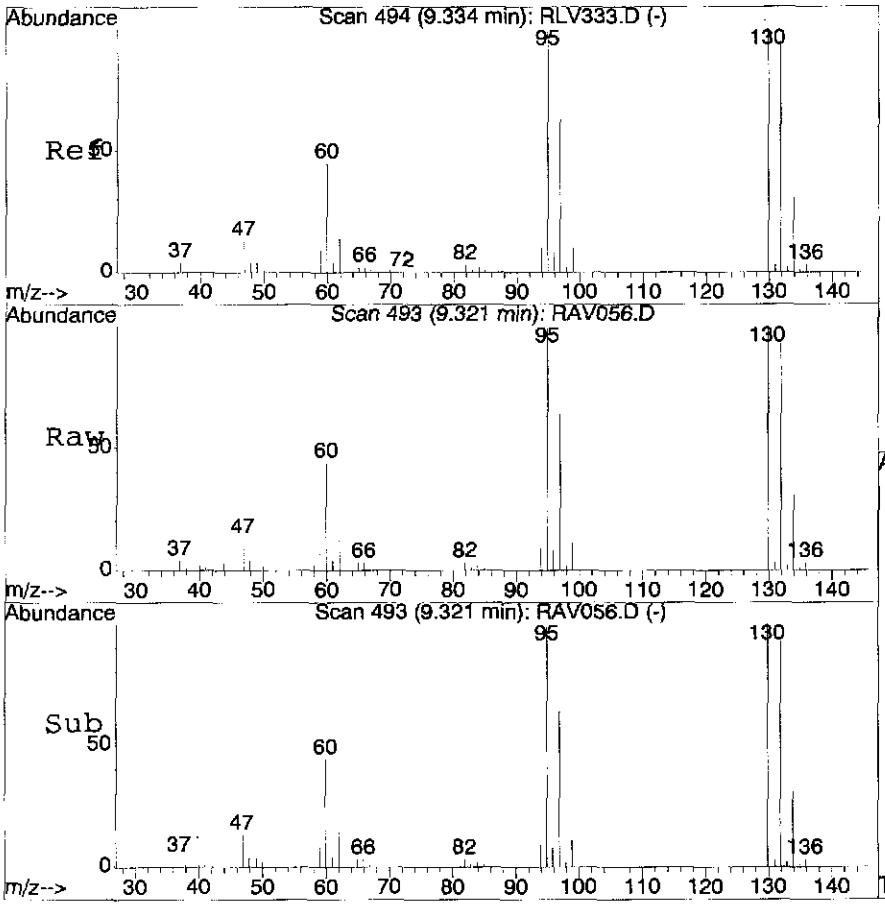


#31
cis-1,2-Dichloroethene
Concen: 3.36 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV056.D
Acq: 5 Jan 2011 2:40 pm

Tgt Ion: 96 Resp: 162179

Ion	Ratio	Lower	Upper
96	100		
61	140.3	123.3	183.3
98	66.0	33.4	93.4

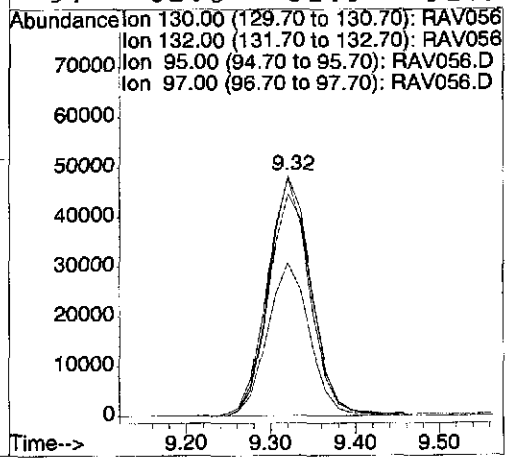




#46
Trichloroethene
Concen: 3.62 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV056.D
Acq: 5 Jan 2011 2:40 pm

Tgt Ion:130 Resp: 168473

Ion	Ratio	Lower	Upper
130	100		
132	94.3	64.2	124.2
95	98.5	67.2	127.2
97	62.8	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/11/11 13:43
Sample ID:	SSI-GW-008	Date Analyzed:	01/11/11 13:43
Lab Samp ID:	A027-08N	Dilution Factor:	1
Lab File ID:	RAV210	Matrix	: WATER
Ext Btch ID:	V001A12	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	0.92J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	3.6	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.64	10.00	96.4	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.75	10.00	97.5	85-120
DIBROMOFLUOROMETHANE	9.80	10.00	98.0	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV210.D
Acq On : 11 Jan 2011 1:43 pm
Sample : 11A027-08N 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:10 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1318643	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1150854	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	388981	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	387101	9.80	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.00%	
40) 1,2-Dichloroethane-d4	8.20	65	297925	9.64	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.40%	
55) Toluene-d8	11.31	98	1461577	9.75	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.50%	
76) 4-Bromofluorobenzene	16.29	95	473734	10.74	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	107.40%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.91	96	44943	0.92	ug/l	93
46) Trichloroethene	9.32	130	170261	3.58	ug/l	98

(#) = qualifier out of range (m) = manual integration

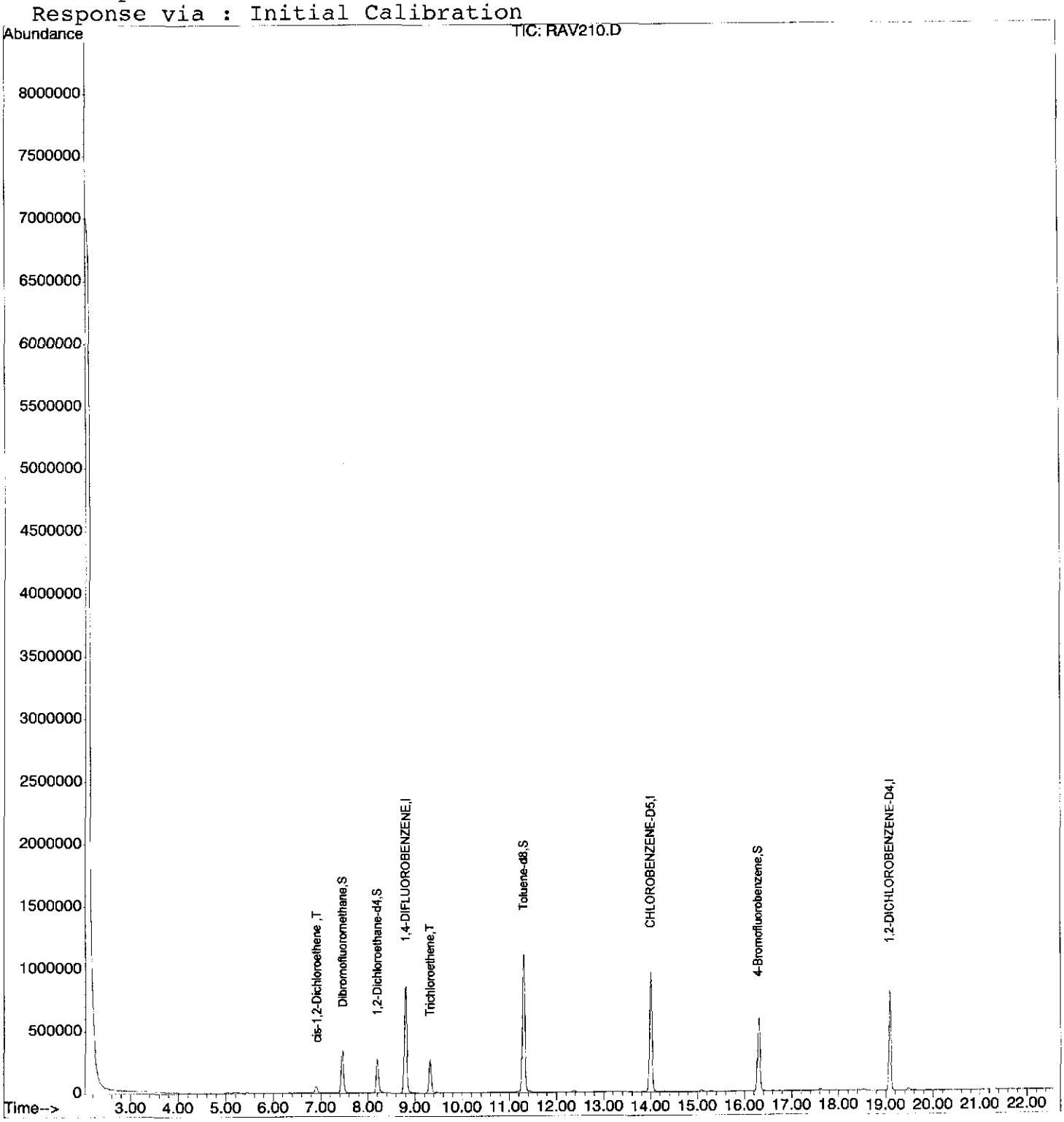
Quantitation Report

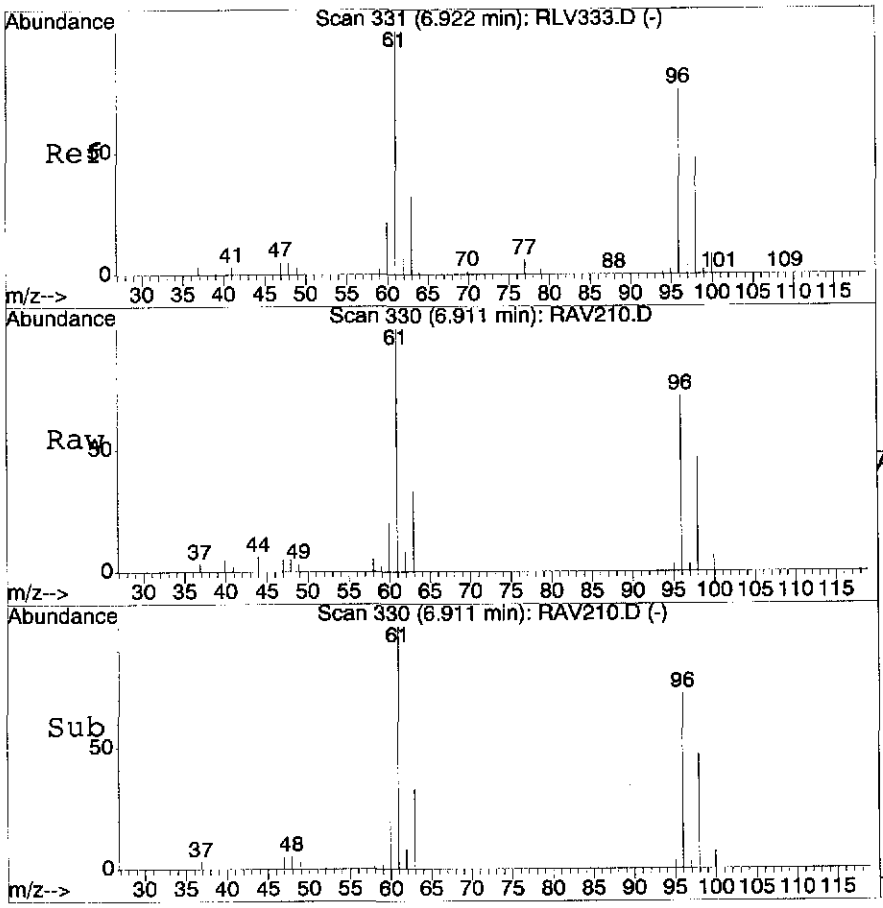
Data File : D:\HPCHEM\1\DATA\11A11\RAV210.D
Acq On : 11 Jan 2011 1:43 pm
Sample : 11A027-08N 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:10 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

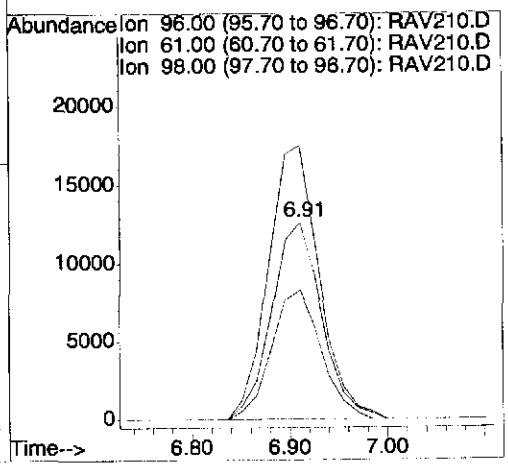


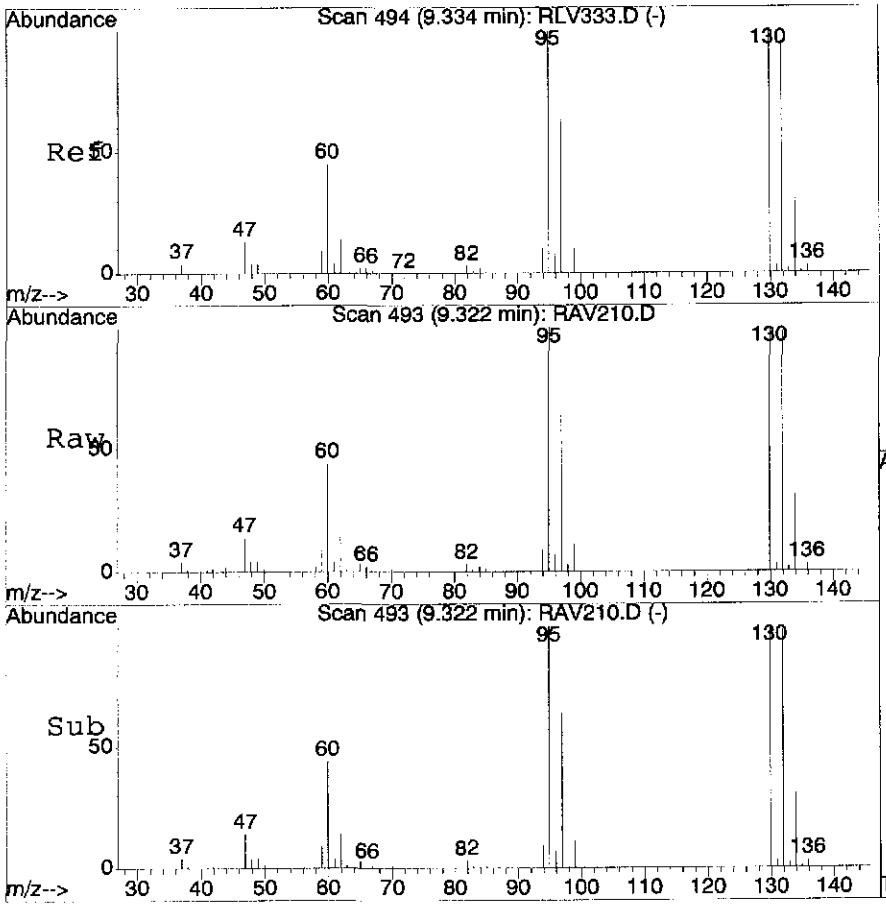


#31
cis-1,2-Dichloroethene
Concen: 0.92 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV210.D
Acq: 11 Jan 2011 1:43 pm

Tgt Ion: 96 Resp: 44943

Ion	Ratio	Lower	Upper
96	100		
61	140.7	123.3	183.3
98	64.9	33.4	93.4

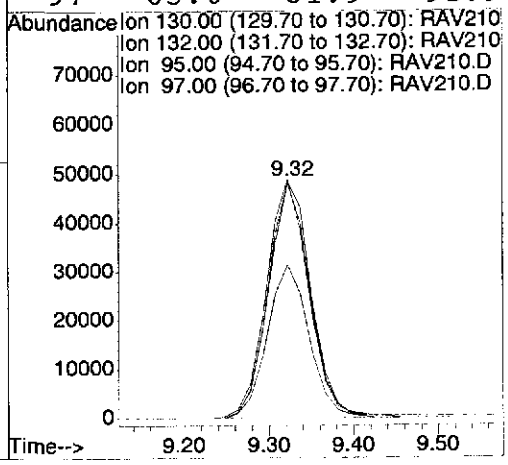




#46
Trichloroethene
Concen: 3.58 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV210.D
Acq: 11 Jan 2011 1:43 pm

Tgt Ion:130 Resp: 170261

Ion	Ratio	Lower	Upper
130	100		
132	96.0	64.2	124.2
95	99.7	67.2	127.2
97	63.0	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 23:14
Sample ID: SSI-GW-009	Date Analyzed: 01/05/11 23:14
Lab Samp ID: A027-09	Dilution Factor: 1
Lab File ID: RAV072	Matrix : WATER
Ext Btch ID: V001A04	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.94J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.7	1.0	0.20
TRICHLOROETHENE	300E	1.0	0.20
VINYL CHLORIDE	0.25J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.72	10.00	97.2	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	9.92	10.00	99.2	85-120
DIBROMOFLUOROMETHANE	9.75	10.00	97.5	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV072.D
Acq On : 5 Jan 2011 11:14 pm
Sample : 11A027-09 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:37 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1357001	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1192825	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	399944	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	396611	9.75	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.50%	
40) 1,2-Dichloroethane-d4	8.20	65	308978	9.72	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.20%	
55) Toluene-d8	11.29	98	1541116	9.92	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.20%	
76) 4-Bromofluorobenzene	16.29	95	493404	10.88	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	108.80%	
Target Compounds						Qvalue
5) Vinyl chloride	2.65	62	9819	0.25	ug/l	91
14) 1,1-Dichloroethene	4.39	61	58627	0.94	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	192199	2.75	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	6983694	138.94	ug/l	92
46) Trichloroethene	9.32	130	14990721	304.44	ug/l	99

(#) = qualifier out of range (m) = manual integration

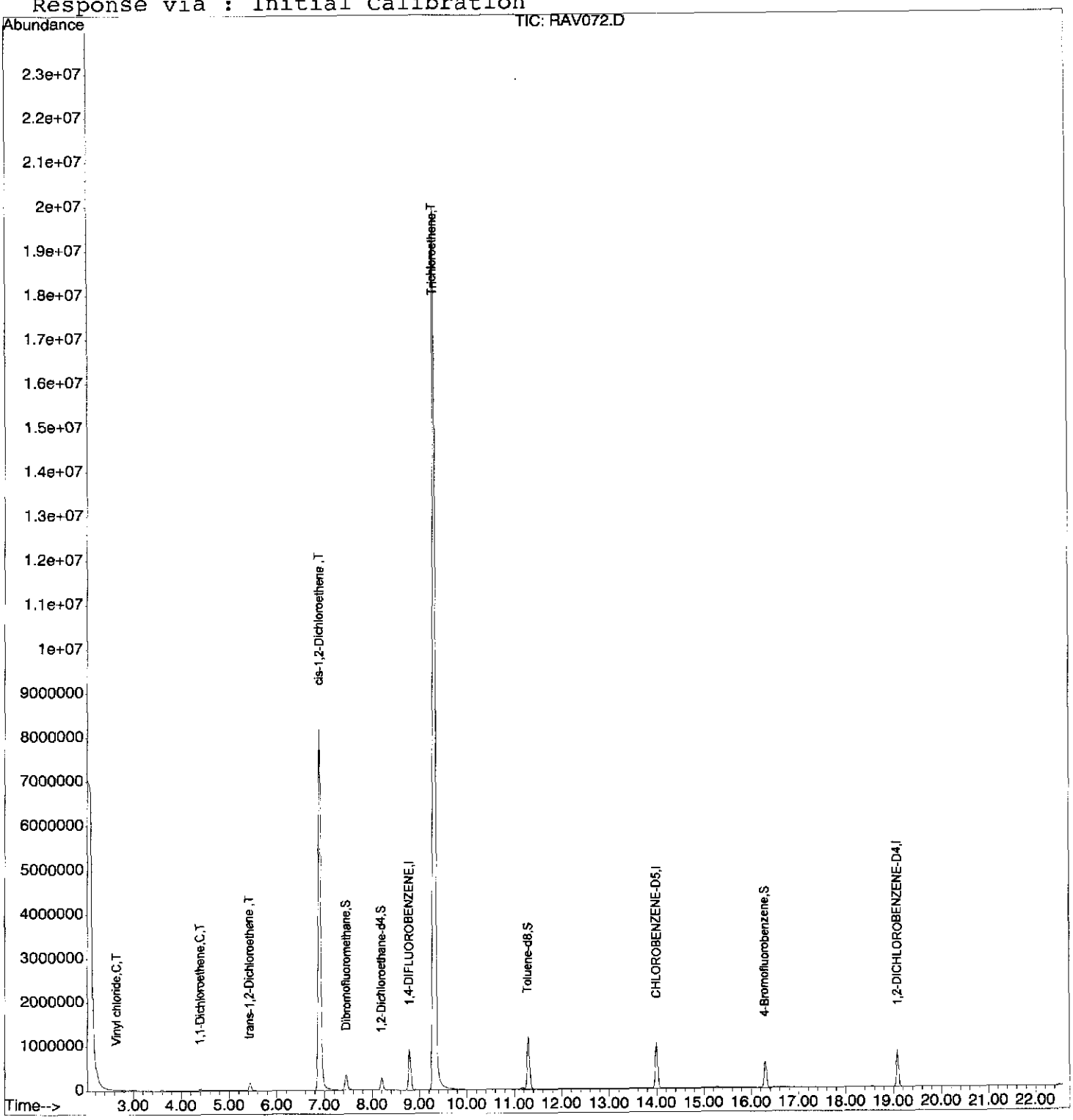
Quantitation Report

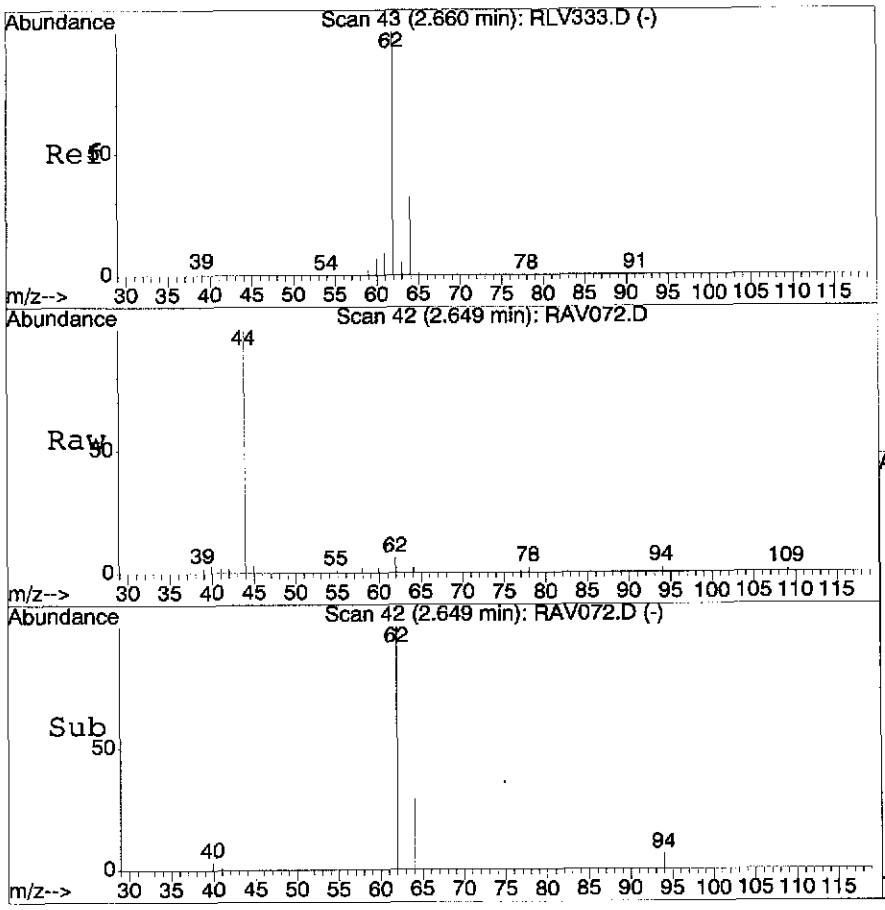
Data File : D:\HPCHEM\1\DATA\11A05\RAV072.D
Acq On : 5 Jan 2011 11:14 pm
Sample : 11A027-09 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:37 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

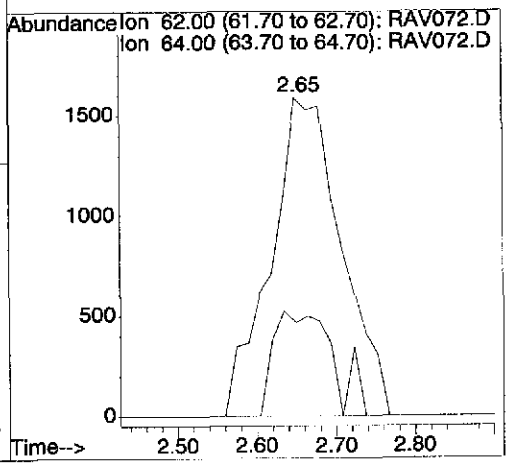


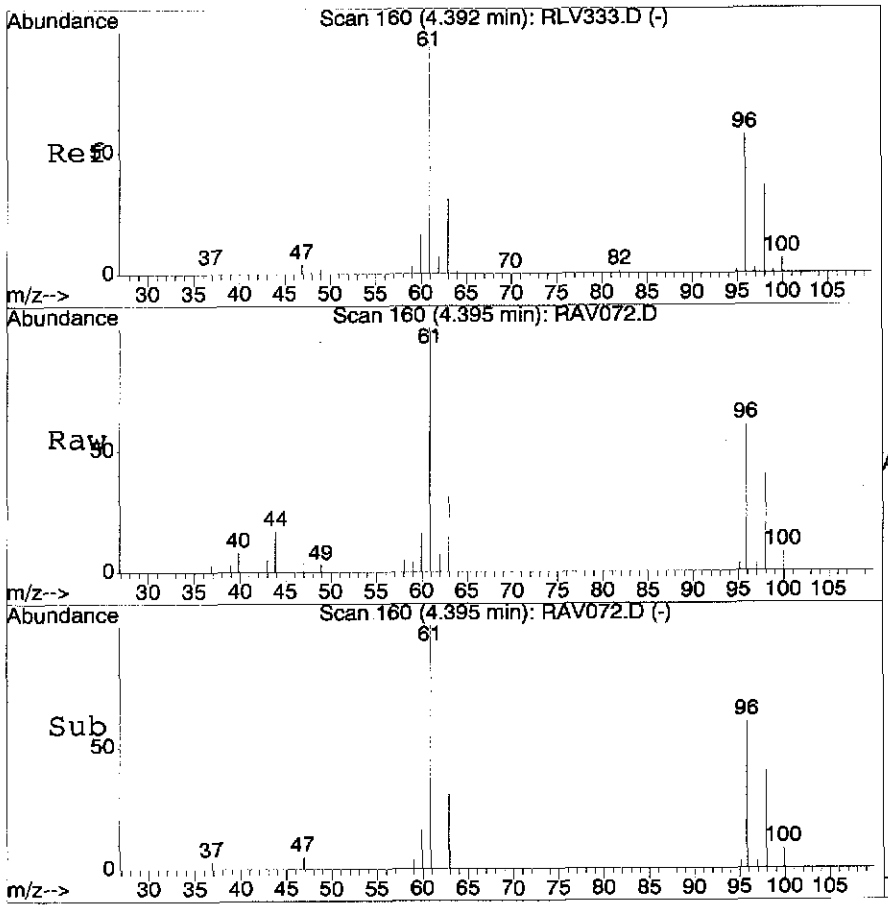


#5
Vinyl chloride
Concen: 0.25 ug/l
RT: 2.65 min Scan# 42
Delta R.T. -0.01 min
Lab File: RAV072.D
Acq: 5 Jan 2011 11:14 pm

Tgt Ion: 62 Resp: 9819

Ion	Ratio	Lower	Upper
62	100		
64	27.5	2.5	62.5

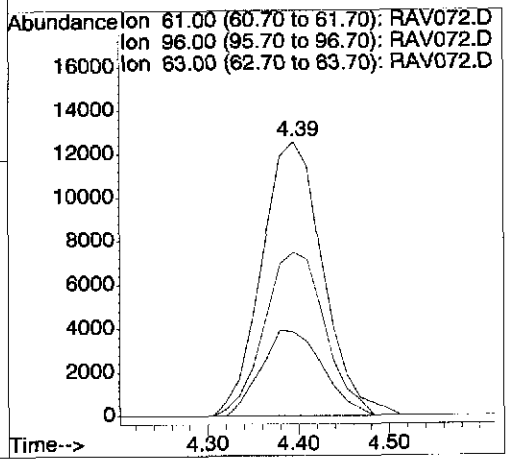


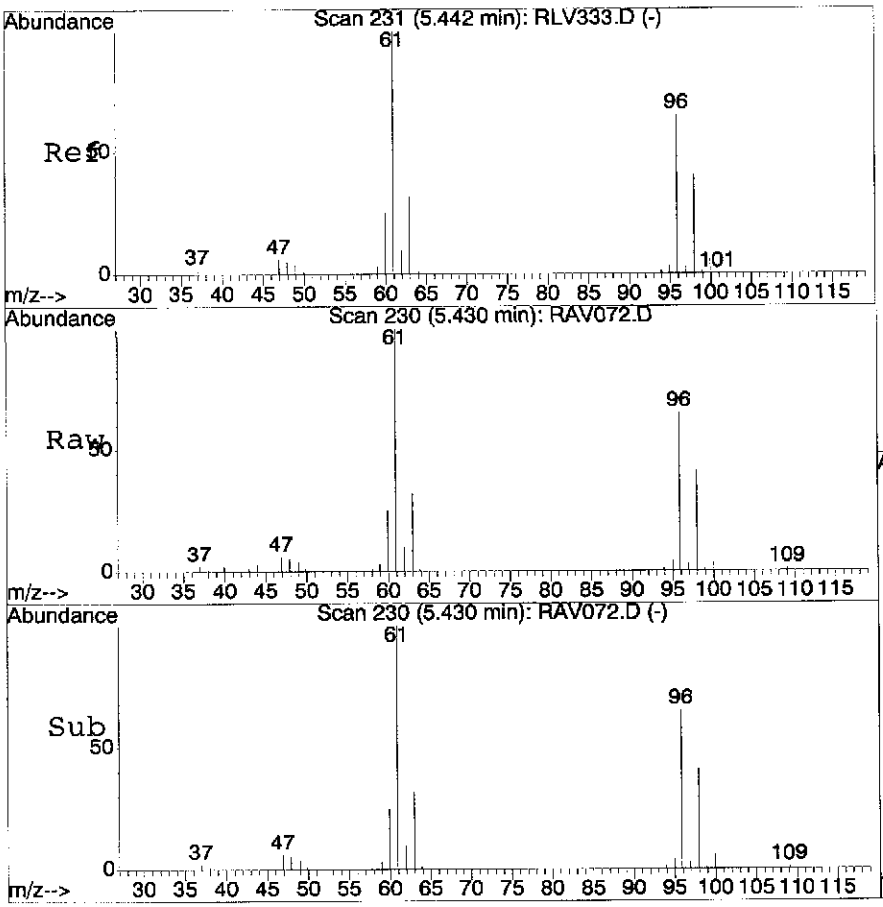


#14
1,1-Dichloroethene
Concen: 0.94 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV072.D
Acq: 5 Jan 2011 11:14 pm

Tgt Ion: 61 Resp: 58627

Ion	Ratio	Lower	Upper
61	100		
96	59.0	27.7	87.7
63	31.4	2.0	62.0

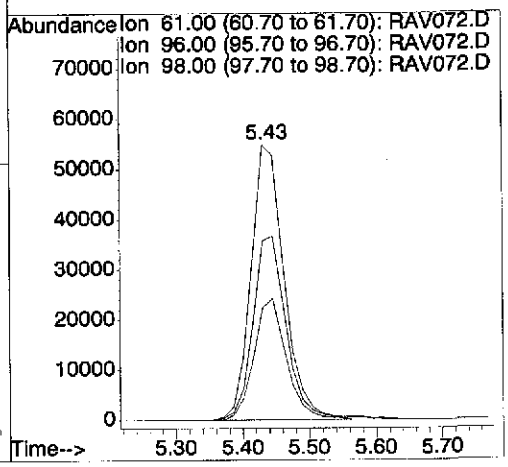


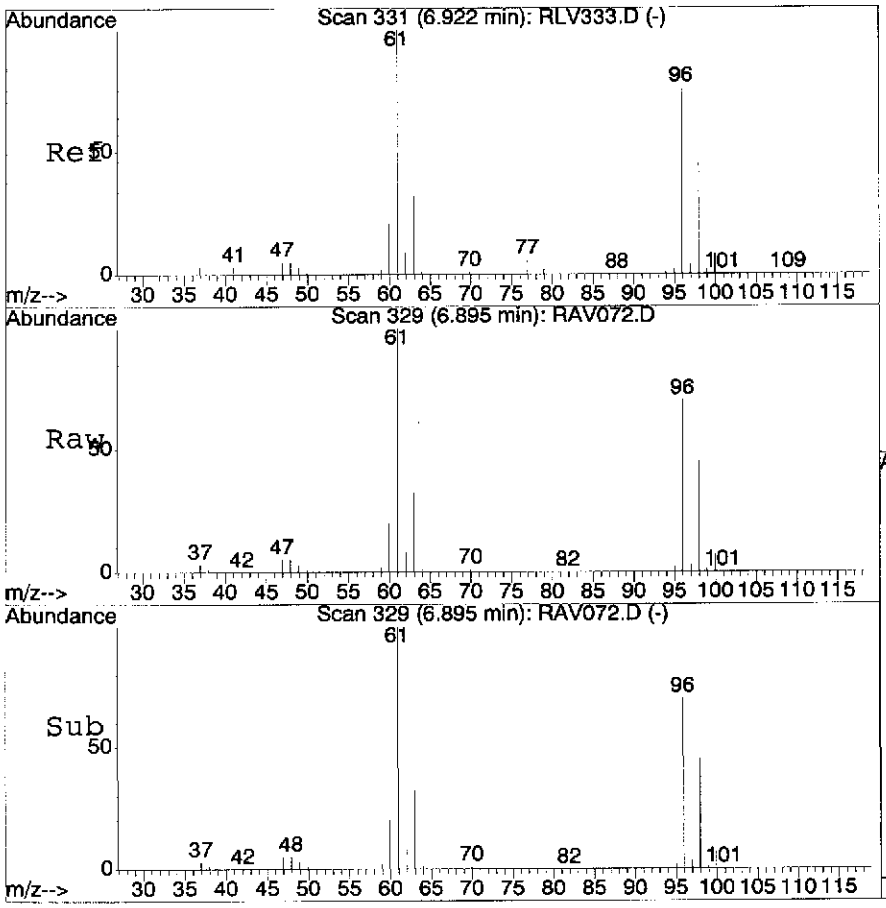


#23
trans-1,2-Dichloroethene
Concen: 2.75 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RAV072.D
Acq: 5 Jan 2011 11:14 pm

Tgt Ion: 61 Resp: 192199

Ion	Ratio	Lower	Upper
61	100		
96	66.6	36.0	96.0
98	42.7	11.6	71.6

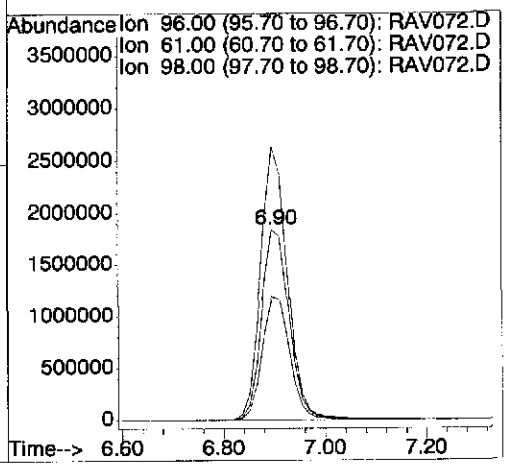


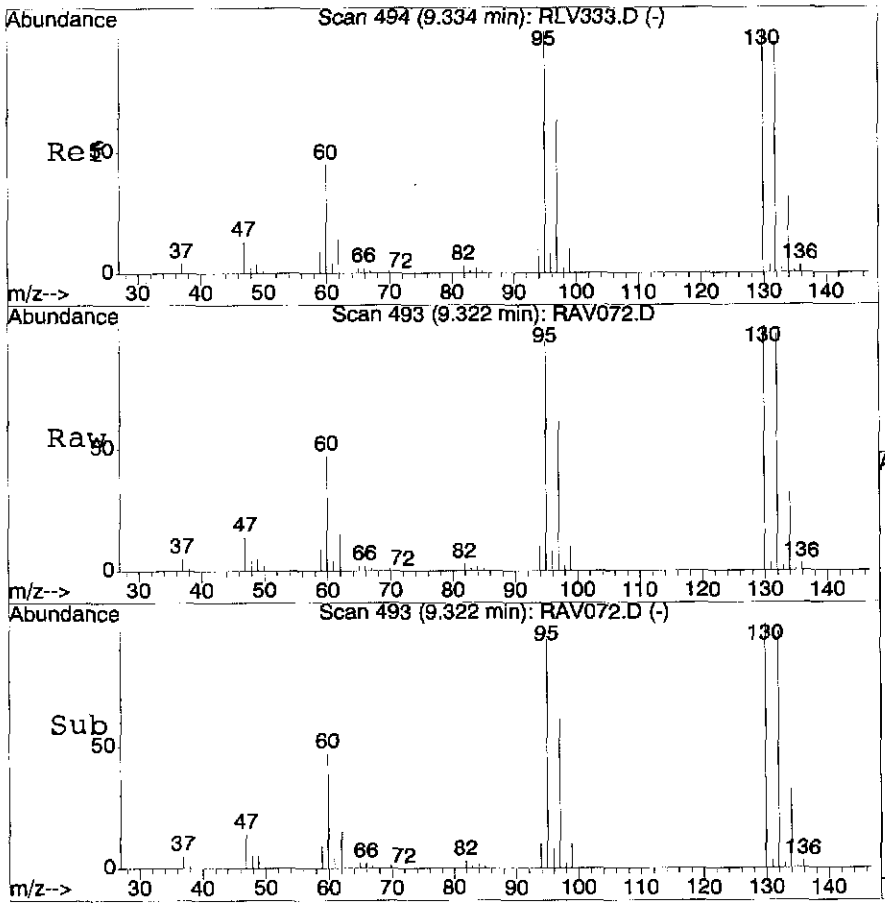


#31
cis-1,2-Dichloroethene
Concen: 138.94 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.03 min
Lab File: RAV072.D
Acq: 5 Jan 2011 11:14 pm

Tgt Ion: 96 Resp: 6983694

Ion	Ratio	Lower	Upper
96	100		
61	139.1	123.3	183.3
98	65.0	33.4	93.4

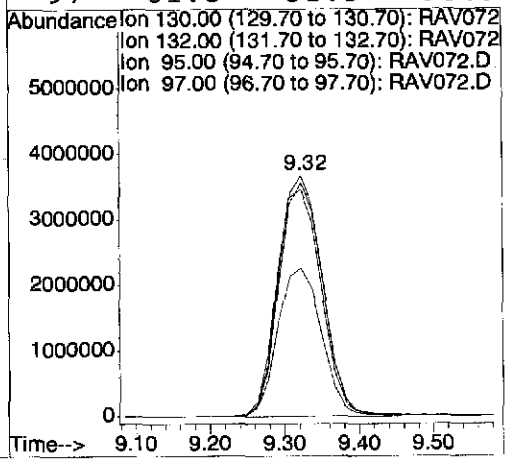




#46
Trichloroethene
Concen: 304.44 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV072.D
Acq: 5 Jan 2011 11:14 pm

Tgt Ion:130 Resp:14990721

Ion	Ratio	Lower	Upper
130	100		
132	95.9	64.2	124.2
95	95.8	67.2	127.2
97	61.5	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 08:26
Sample ID:	SSI-GW-009DL	Date Analyzed:	01/07/11 08:26
Lab Samp ID:	A027-09T	Dilution Factor:	25
Lab File ID:	RAV115	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	ND	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	160	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
METHYLENE CHLORIDE	ND	25	12
METHYL TERT-BUTYL ETHER	ND	25	5.0
O-XYLENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRICHLOROETHENE	400	25	5.0
VINYL CHLORIDE	ND	25	5.0
1,2,4-TRIMETHYLBENZENE	ND	25	5.0
1,3,5-TRIMETHYLBENZENE	ND	25	5.0
DICHLORODIFLUOROMETHANE	ND	25	7.5
ISOPROPYLBENZENE	ND	25	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	263	250.0	105	70-120
4-BROMOFLUOROBENZENE	265	250.0	106	75-120
TOLUENE-D8	243	250.0	97.2	85-120
DIBROMOFLUOROMETHANE	252	250.0	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV115.D
Acq On : 7 Jan 2011 8:26 am
Sample : 11A027-09T 1.0mL
Misc : DF=25
MS Integration Params: 524C.P
Quant Time: Jan 7 10:03 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1305417	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1171503	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	408660	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	394532	10.09	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.90%	
40) 1,2-Dichloroethane-d4	8.21	65	321925	10.52	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.20%	
55) Toluene-d8	11.30	98	1483479	9.72	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.20%	
76) 4-Bromofluorobenzene	16.31	95	490415	10.58	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.80%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.91	96	306488	6.34	ug/l	91
46) Trichloroethene	9.34	130	781272	16.16	ug/l	100

(#) = qualifier out of range (m) = manual integration

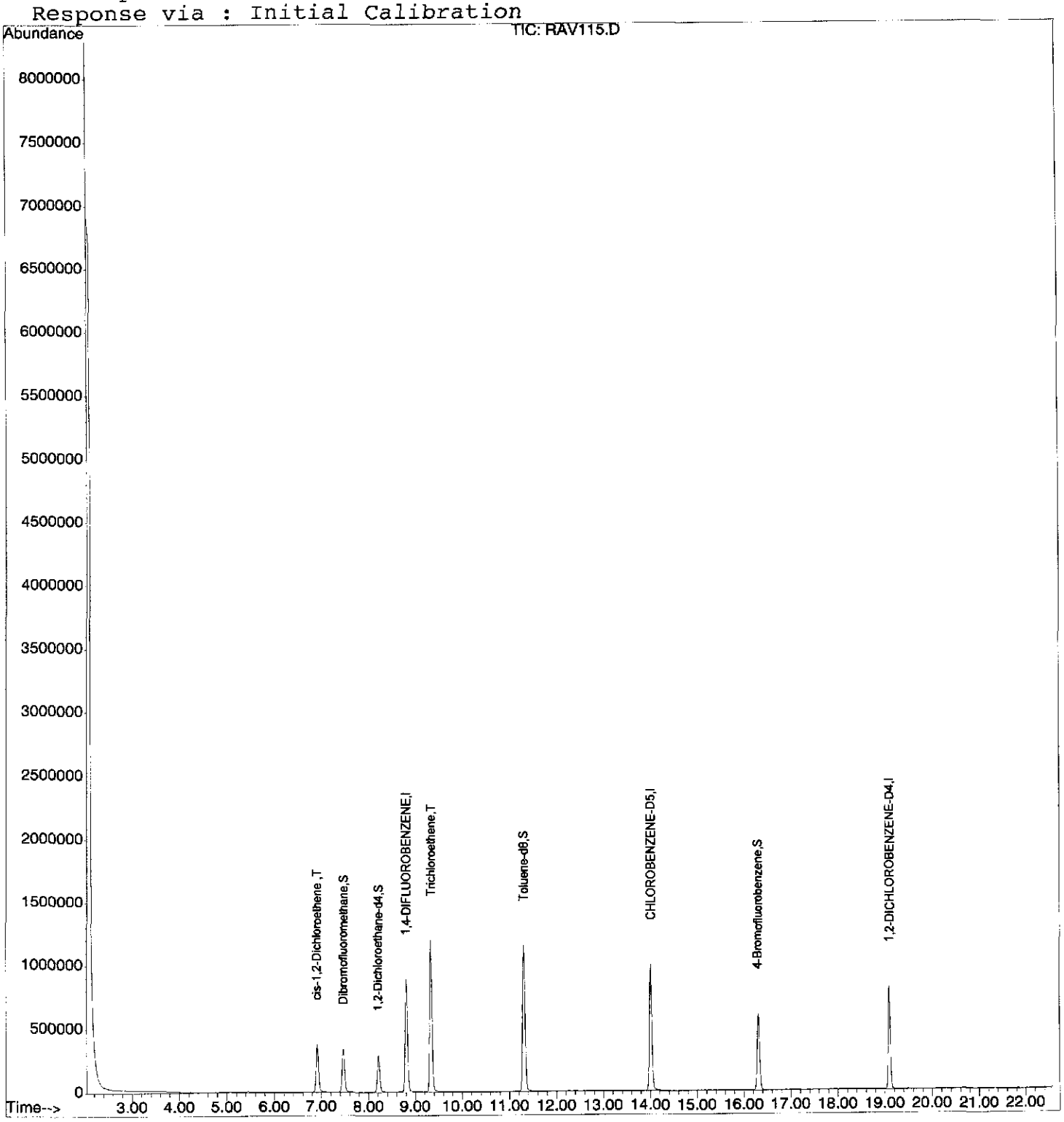
Quantitation Report

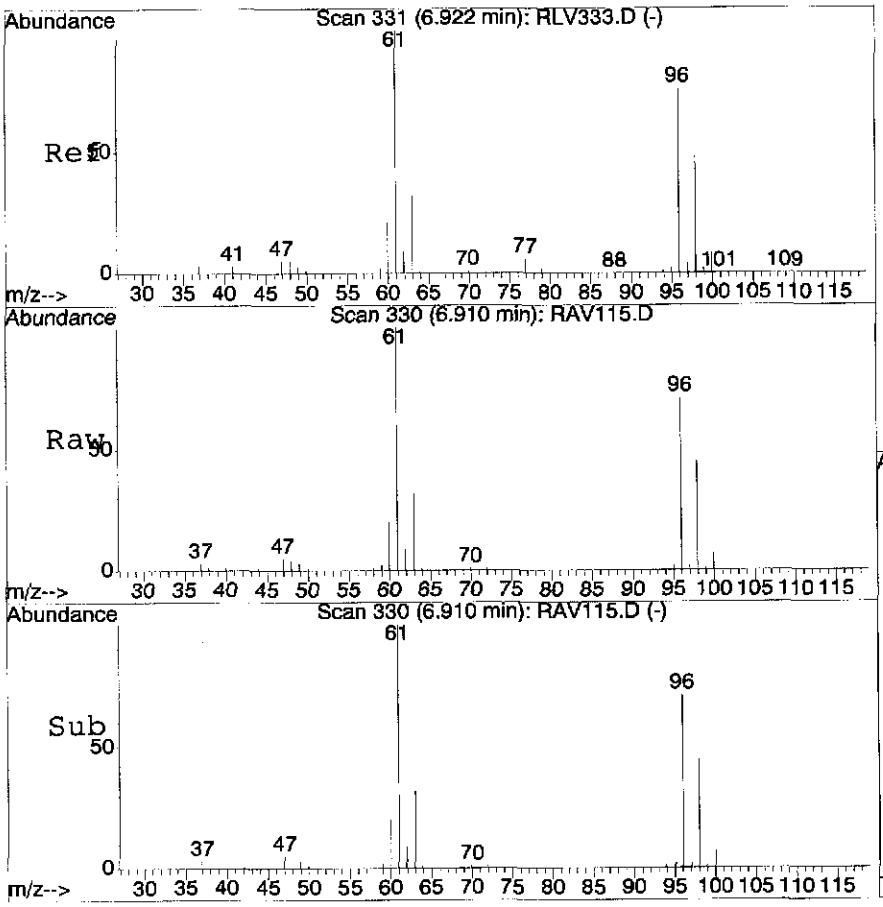
Data File : D:\HPCHEM\1\DATA\11A06\RAV115.D
Acq On : 7 Jan 2011 8:26 am
Sample : 11A027-09T 1.0mL
Misc : DF=25
MS Integration Params: 524C.P
Quant Time: Jan 7 10:03 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

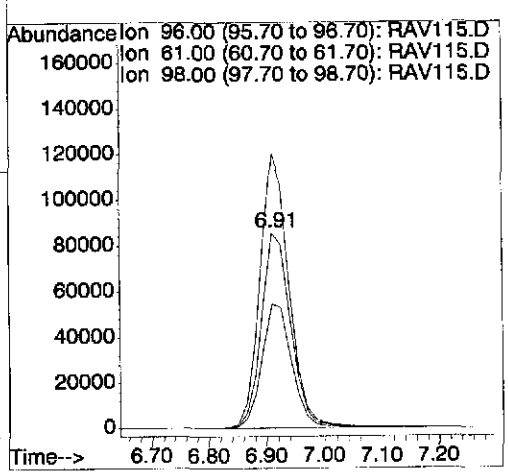


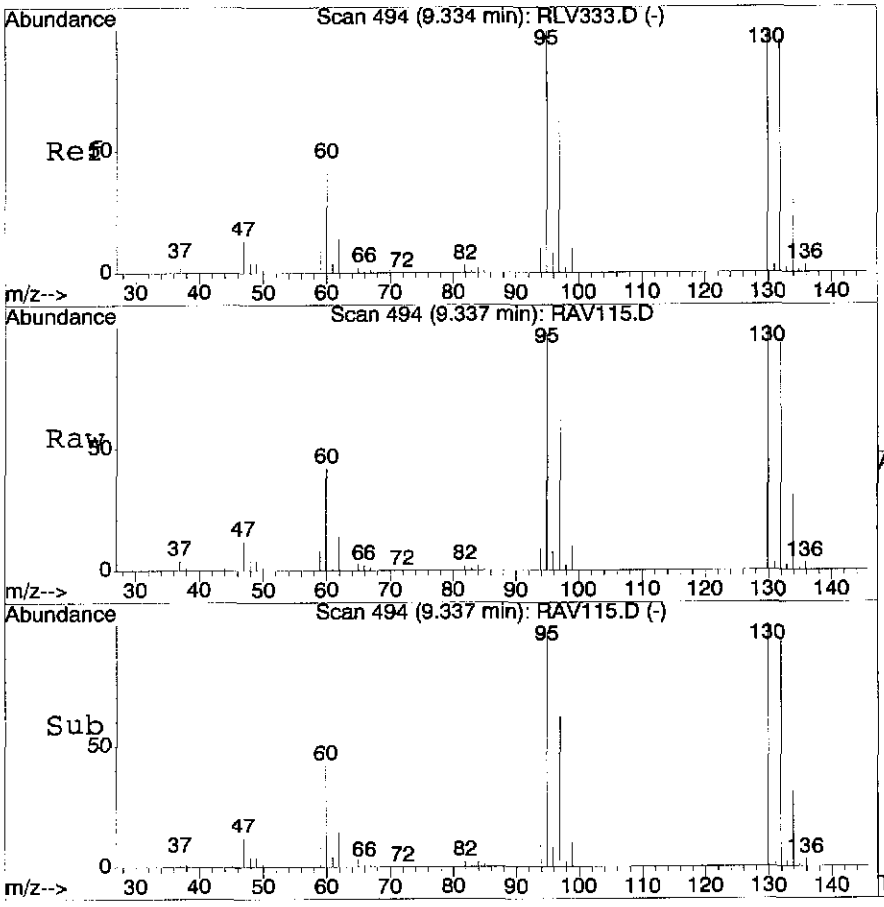


#31
cis-1,2-Dichloroethene
Concen: 6.34 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV115.D
Acq: 7 Jan 2011 8:26 am

Tgt Ion: 96 Resp: 306488

Ion	Ratio	Lower	Upper
96	100		
61	137.7	123.3	183.3
98	64.7	33.4	93.4

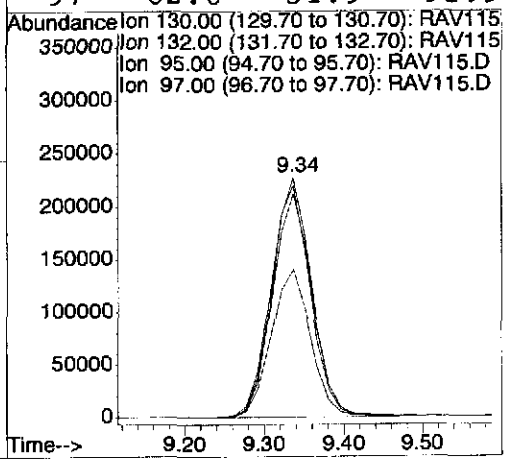




#46
Trichloroethene
Concen: 16.16 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV115.D
Acq: 7 Jan 2011 8:26 am

Tgt Ion:130 Resp: 781272

Ion	Ratio	Lower	Upper
130	100		
132	94.3	64.2	124.2
95	97.8	67.2	127.2
97	62.0	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 23:47
Sample ID: SSI-GW-010	Date Analyzed: 01/05/11 23:47
Lab Samp ID: A027-10	Dilution Factor: 1
Lab File ID: RAV073	Matrix : WATER
Ext Btch ID: V001A04	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.28J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	11	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	1.2	1.0	0.20
TRICHLOROETHENE	380E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.97	10.00	99.7	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	10.0	10.00	100	85-120
DIBROMOFLUOROMETHANE	9.90	10.00	99.0	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV073.D
Acq On : 5 Jan 2011 11:47 pm
Sample : 11A027-10 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:38 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1412957	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1241188	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	421851	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	419298	9.90	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.00%	
40) 1,2-Dichloroethane-d4	8.20	65	330076	9.97	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.70%	
55) Toluene-d8	11.30	98	1618037	10.01	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.10%	
76) 4-Bromofluorobenzene	16.29	95	514524	10.76	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	107.60%	
Target Compounds						Qvalue
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	9829	0.44	ug/l	96
14) 1,1-Dichloroethene	4.39	61	18056	0.28	ug/l	99
23) trans-1,2-Dichloroethene	5.45	61	90772	1.25	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	598848	11.44	ug/l	92
46) Trichloroethene	9.32	130	19718873	384.86	ug/l	99

(#) = qualifier out of range (m) = manual integration

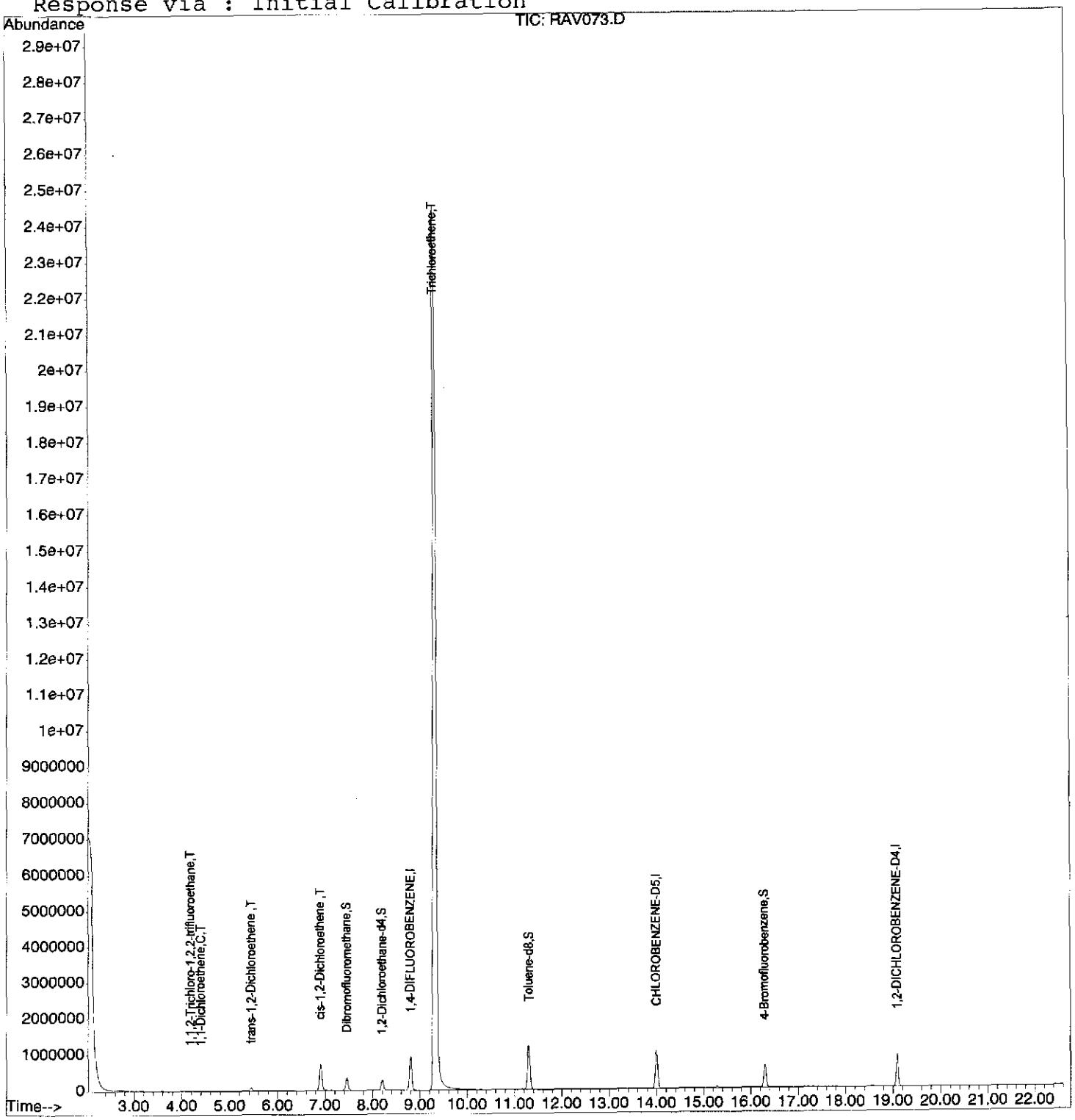
Quantitation Report

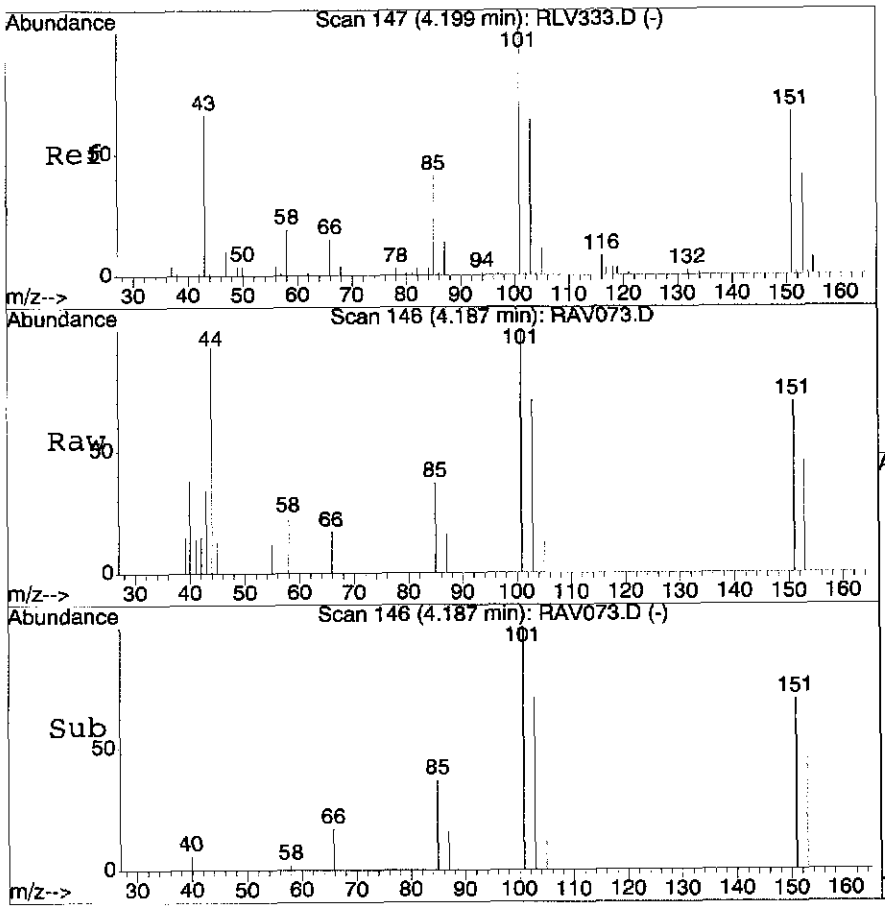
Data File : D:\HPCHEM\1\DATA\11A05\RAV073.D
Acq On : 5 Jan 2011 11:47 pm
Sample : 11A027-10 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:38 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

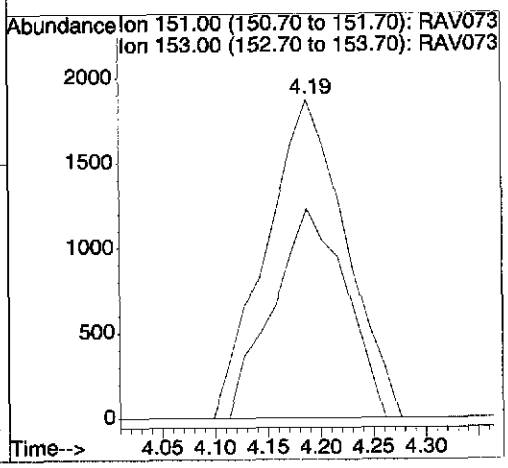


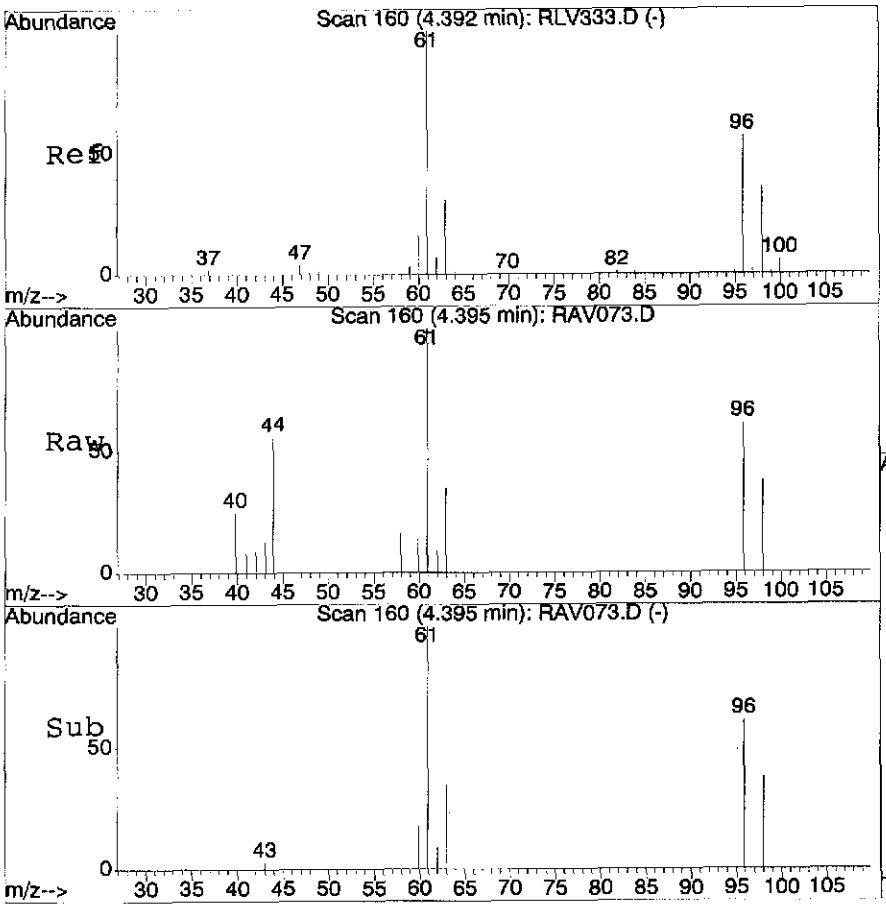


#12
1,1,2-Trichloro-1,2,2-trifluo
Concen: 0.44 ug/l
RT: 4.19 min Scan# 146
Delta R.T. -0.01 min
Lab File: RAV073.D
Acq: 5 Jan 2011 11:47 pm

Tgt Ion:151 Resp: 9829

Ion	Ratio	Lower	Upper
151	100		
153	60.2	33.2	93.2

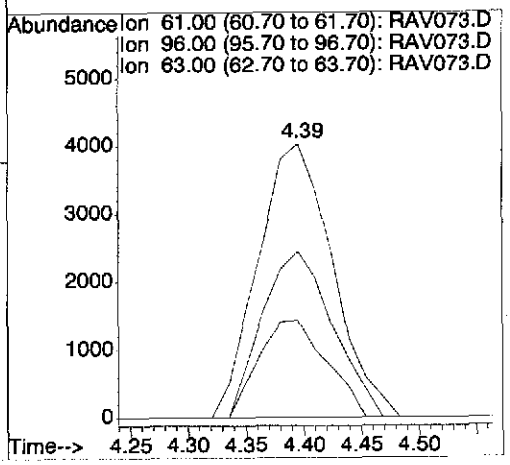


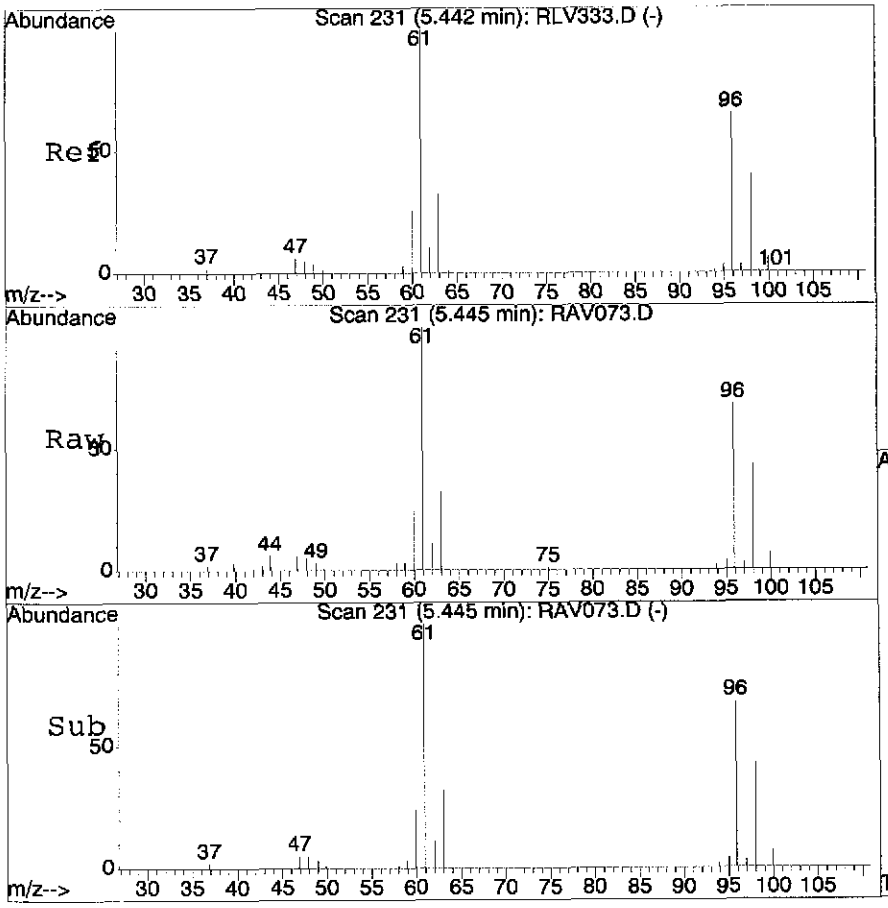


#14
1,1-Dichloroethene
Concen: 0.28 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV073.D
Acq: 5 Jan 2011 11:47 pm

Tgt Ion: 61 Resp: 18056

Ion	Ratio	Lower	Upper
61	100		
96	57.4	27.7	87.7
63	32.4	2.0	62.0

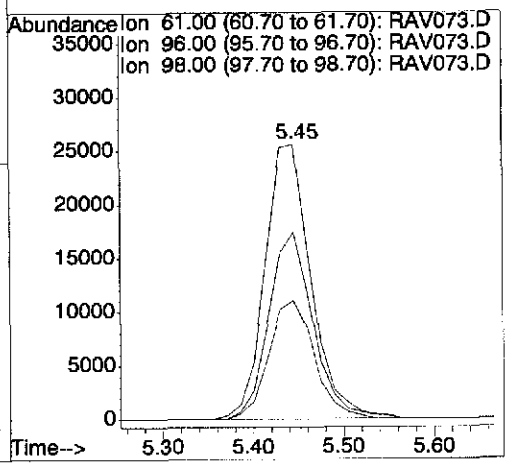


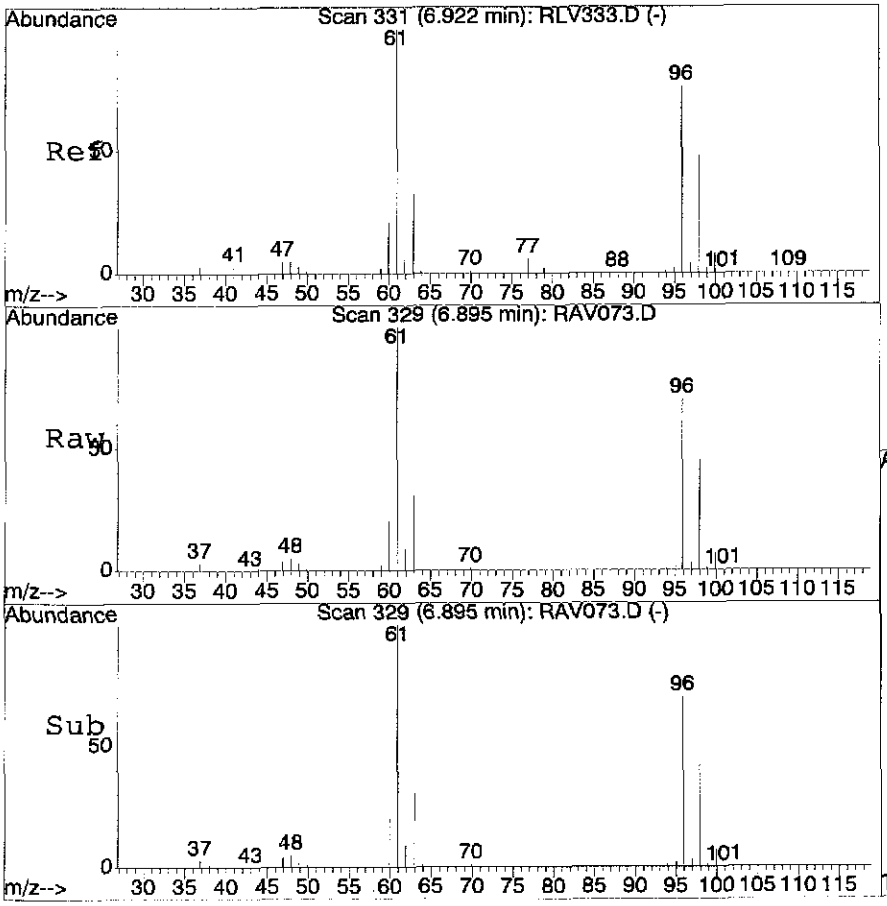


#23
trans-1,2-Dichloroethene
Concen: 1.25 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV073.D
Acq: 5 Jan 2011 11:47 pm

Tgt Ion: 61 Resp: 90772

Ion	Ratio	Lower	Upper
61	100		
96	65.6	36.0	96.0
98	42.7	11.6	71.6

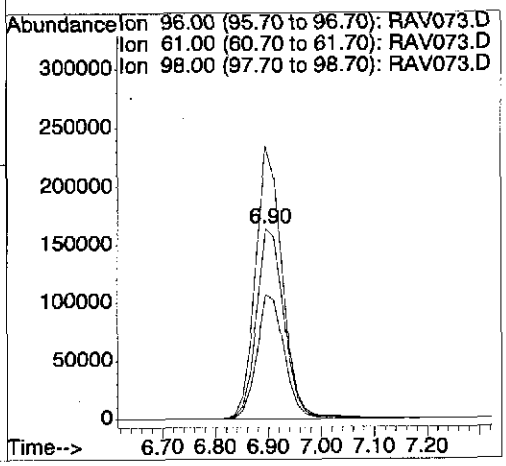


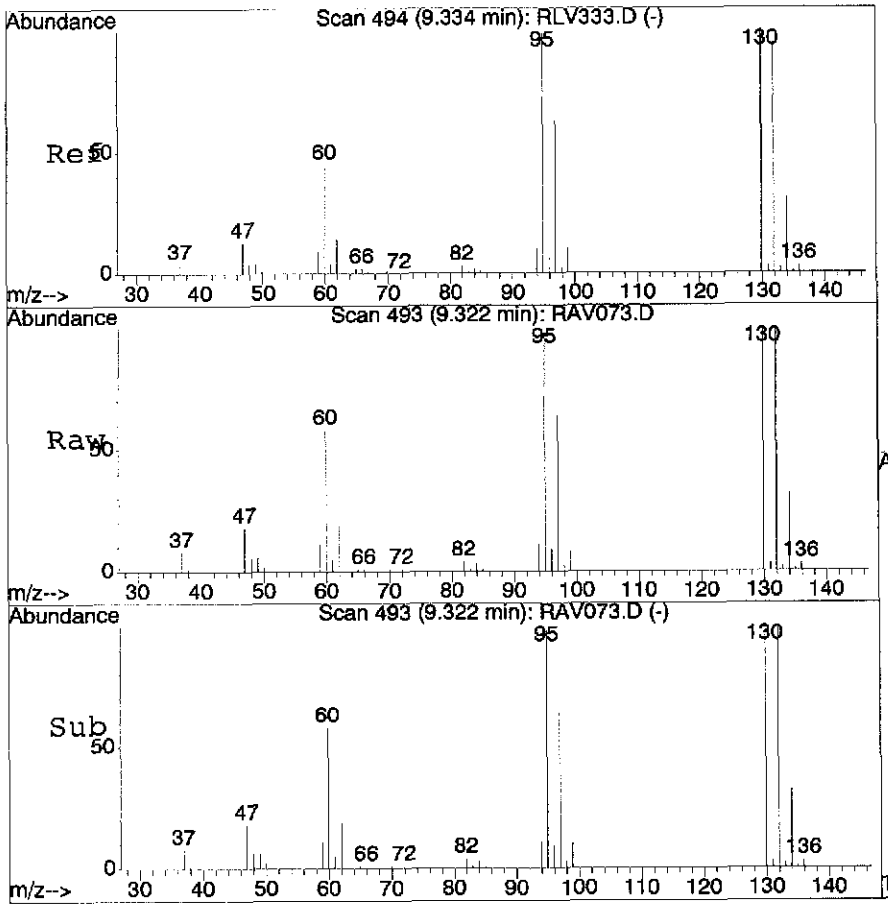


#31
cis-1,2-Dichloroethene
Concen: 11.44 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.03 min
Lab File: RAV073.D
Acq: 5 Jan 2011 11:47 pm

Tgt Ion: 96 Resp: 598848

Ion	Ratio	Lower	Upper
96	100		
61	138.9	123.3	183.3
98	64.9	33.4	93.4

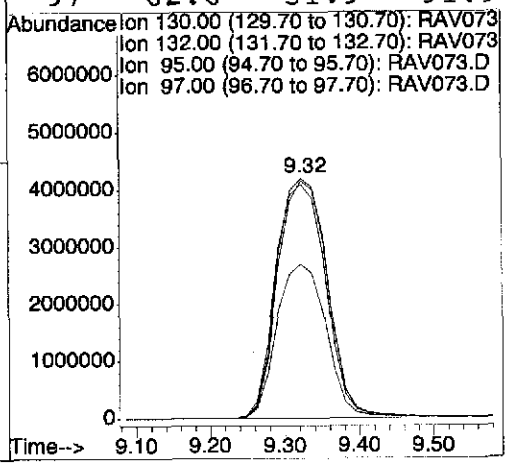




#46
Trichloroethene
Concen: 384.86 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV073.D
Acq: 5 Jan 2011 11:47 pm

Tgt Ion:130 Resp:19718873

Ion	Ratio	Lower	Upper
130	100		
132	96.9	64.2	124.2
95	96.7	67.2	127.2
97	62.6	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/07/11 08:59
Sample ID:	SSI-GW-010DL	Date Analyzed:	01/07/11 08:59
Lab Samp ID:	A027-10T	Dilution Factor:	25
Lab File ID:	RAV116	Matrix :	WATER
Ext Btch ID:	V001A06	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	25	5.0
1,1,2,2-TETRACHLOROETHANE	ND	25	5.0
1,1,2-TRICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHANE	ND	25	5.0
1,1-DICHLOROETHENE	ND	25	5.0
1,2-DICHLOROETHANE	ND	25	5.0
2-BUTANONE	ND	250	120
2-HEXANONE	ND	250	120
4-METHYL-2-PENTANONE	ND	250	120
BENZENE	ND	25	5.0
BROMODICHLOROMETHANE	ND	25	5.0
BROMOFORM	ND	25	7.5
CARBON DISULFIDE	ND	25	5.0
CARBON TETRACHLORIDE	ND	25	5.0
CHLOROBENZENE	ND	25	5.0
CHLOROETHANE	ND	25	5.0
CHLOROFORM	ND	25	5.0
CHLOROMETHANE	ND	25	5.0
CIS-1,2-DICHLOROETHENE	14J	25	5.0
DIBROMOCHLOROMETHANE	ND	25	5.0
ETHYLBENZENE	ND	25	5.0
M/P-XYLENES	ND	50	12
METHYLENE CHLORIDE	ND	25	12
METHYL TERT-BUTYL ETHER	ND	25	5.0
O-XYLENE	ND	25	5.0
TETRACHLOROETHENE	ND	25	5.0
TOLUENE	ND	25	5.0
TRANS-1,2-DICHLOROETHENE	ND	25	5.0
TRICHLOROETHENE	720	25	5.0
VINYL CHLORIDE	ND	25	5.0
1,2,4-TRIMETHYLBENZENE	ND	25	5.0
1,3,5-TRIMETHYLBENZENE	ND	25	5.0
DICHLORODIFLUOROMETHANE	ND	25	7.5
ISOPROPYLBENZENE	ND	25	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	263	250.0	105	70-120
4-BROMOFLUOROBENZENE	263	250.0	105	75-120
TOLUENE-D8	242	250.0	96.9	85-120
DIBROMOFLUOROMETHANE	252	250.0	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV116.D
Acq On : 7 Jan 2011 8:59 am
Sample : 11A027-10T 1.0mL
Misc : DF=25
MS Integration Params: 524C.P
Quant Time: Jan 7 10:04 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1290586	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1158052	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	402719	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	389853	10.08	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.80%	
40) 1,2-Dichloroethane-d4	8.21	65	317628	10.50	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.00%	
55) Toluene-d8	11.30	98	1461854	9.69	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.90%	
76) 4-Bromofluorobenzene	16.30	95	479965	10.51	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.10%	
Target Compounds						Qvalue
31) cis-1,2-Dichloroethene	6.91	96	26246	0.55	ug/l	92
46) Trichloroethene	9.33	130	1376772	28.80	ug/l	100

(#) = qualifier out of range (m) = manual integration

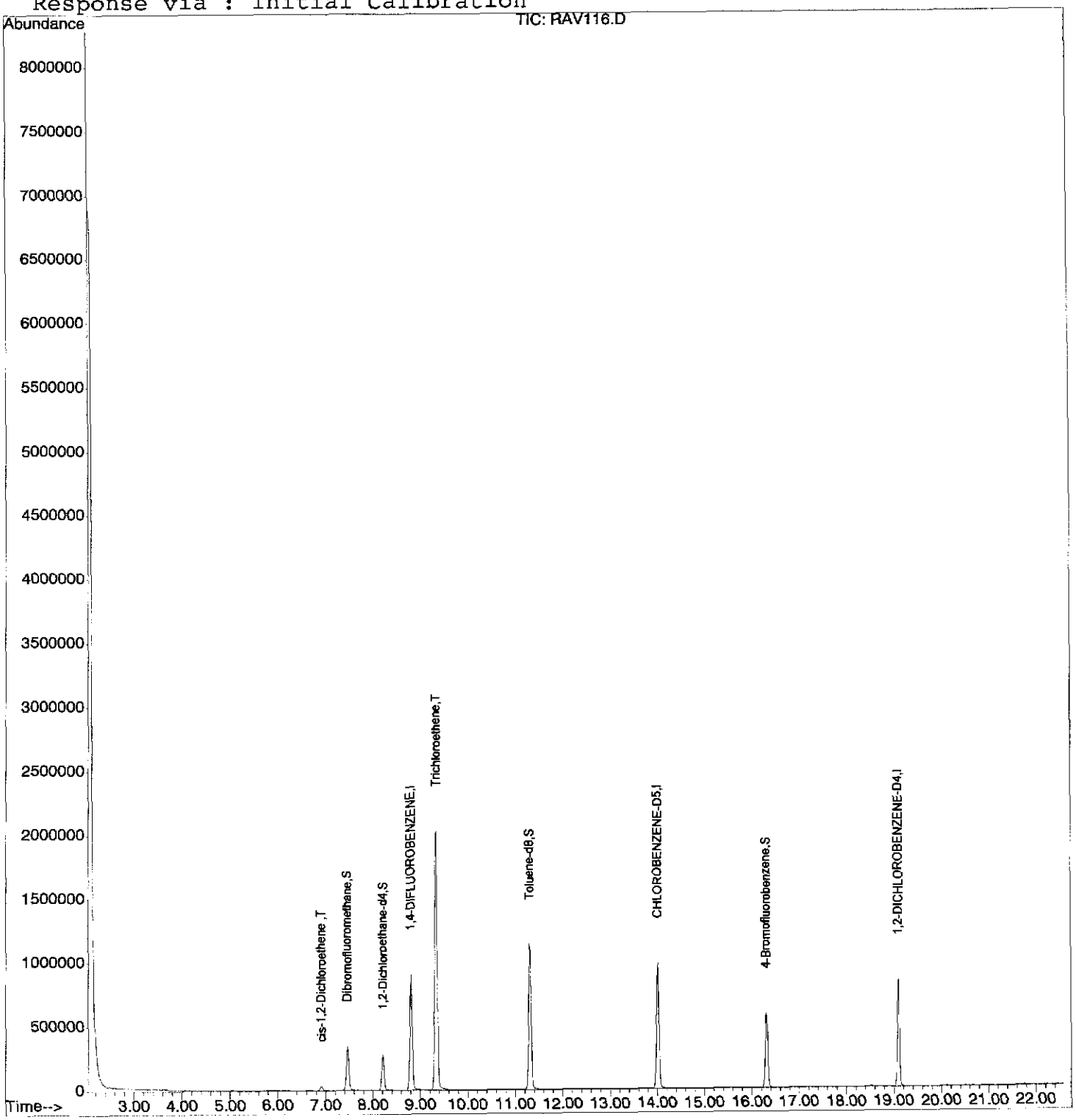
Quantitation Report

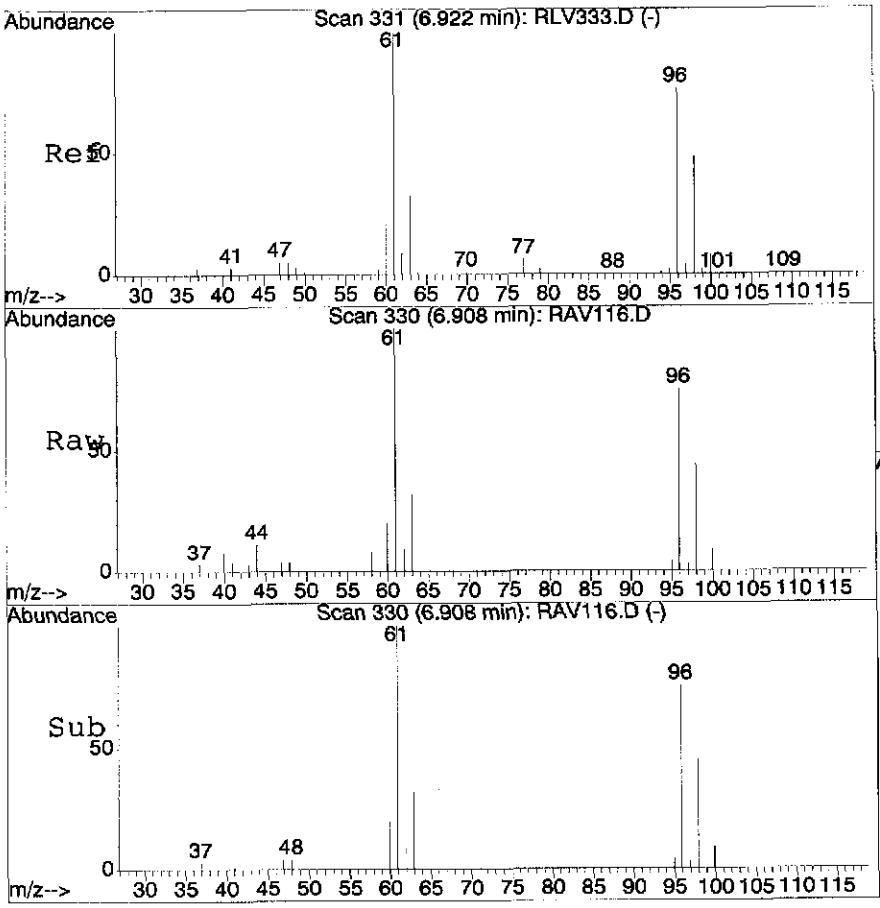
Data File : D:\HPCHEM\1\DATA\11A06\RAV116.D
Acq On : 7 Jan 2011 8:59 am
Sample : 11A027-10T 1.0mL
Misc : DF=25
MS Integration Params: 524C.P
Quant Time: Jan 7 10:04 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

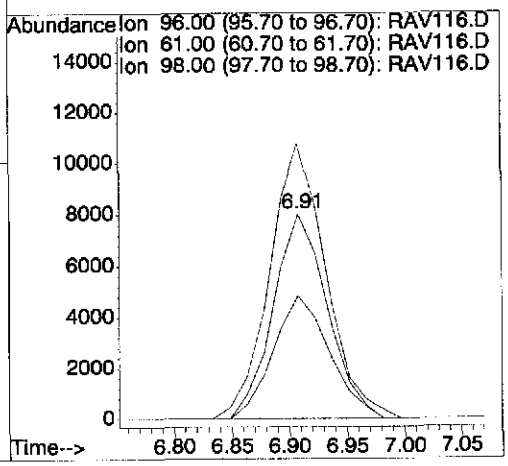


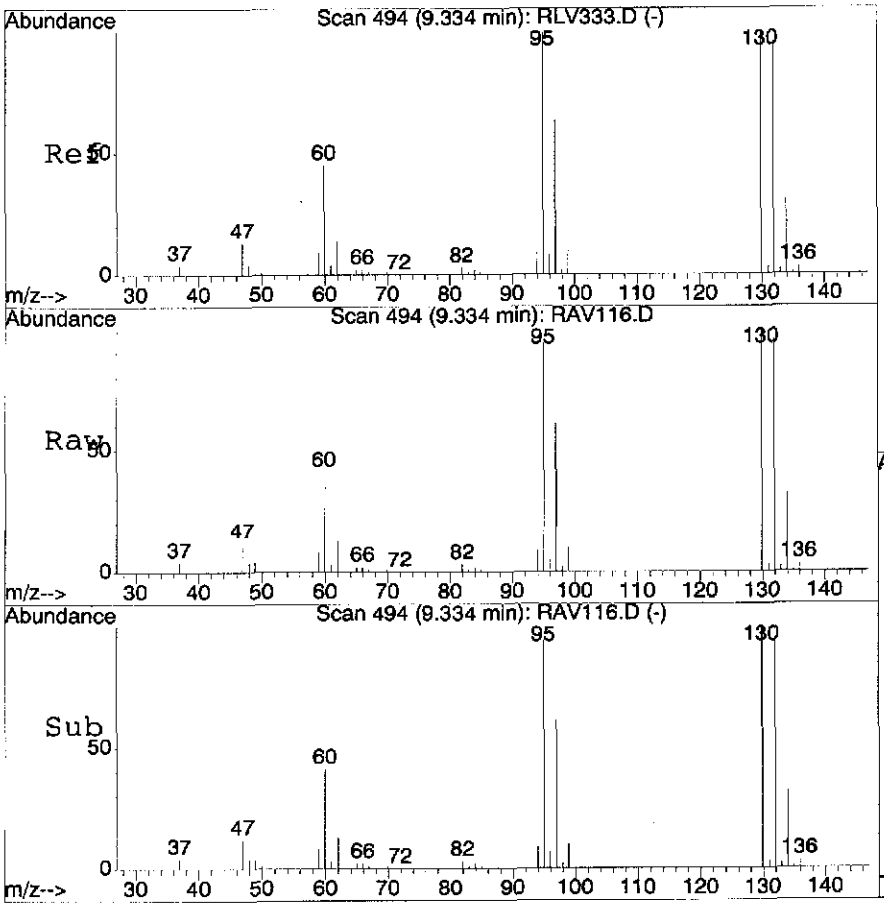


#31
cis-1,2-Dichloroethene
Concen: 0.55 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV116.D
Acq: 7 Jan 2011 8:59 am

Tgt Ion: 96 Resp: 26246

Ion	Ratio	Lower	Upper
96	100		
61	139.4	123.3	183.3
98	62.8	33.4	93.4

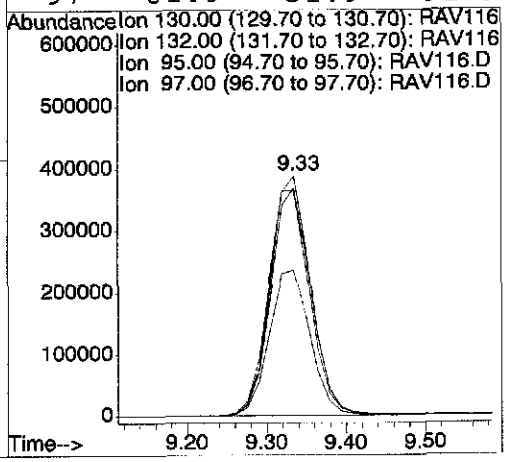




#46
Trichloroethene
Concen: 28.80 ug/l
RT: 9.33 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV116.D
Acq: 7 Jan 2011 8:59 am

Tgt Ion:130 Resp: 1376772

Ion	Ratio	Lower	Upper
130	100		
132	94.5	64.2	124.2
95	97.0	67.2	127.2
97	61.9	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/03/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 00:19
Sample ID:	SSI-GW-011	Date Analyzed:	01/06/11 00:19
Lab Samp ID:	AD27-11	Dilution Factor:	1
Lab File ID:	RAV074	Matrix	: WATER
Ext Btch ID:	VOD1A04	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.45J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	110E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.4	1.0	0.20
TRICHLOROETHENE	180E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.92	10.00	99.2	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.89	10.00	98.9	85-120
DIBROMOFLUOROMETHANE	9.88	10.00	98.8	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV074.D
Acq On : 6 Jan 2011 12:19 am
Sample : 11A027-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:39 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1408859	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1239372	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	424262	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	416913	9.88	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.80%	
40) 1,2-Dichloroethane-d4	8.20	65	327589	9.92	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.20%	
55) Toluene-d8	11.31	98	1597274	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.90%	
76) 4-Bromofluorobenzene	16.29	95	514770	10.70	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	107.00%	
Target Compounds						Qvalue
14) 1,1-Dichloroethene	4.40	61	29318	0.45	ug/l	98
23) trans-1,2-Dichloroethene	5.45	61	176324	2.43	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	5806181	111.26	ug/l	91
46) Trichloroethene	9.32	130	9298513	181.75	ug/l	99

(#) = qualifier out of range (m) = manual integration

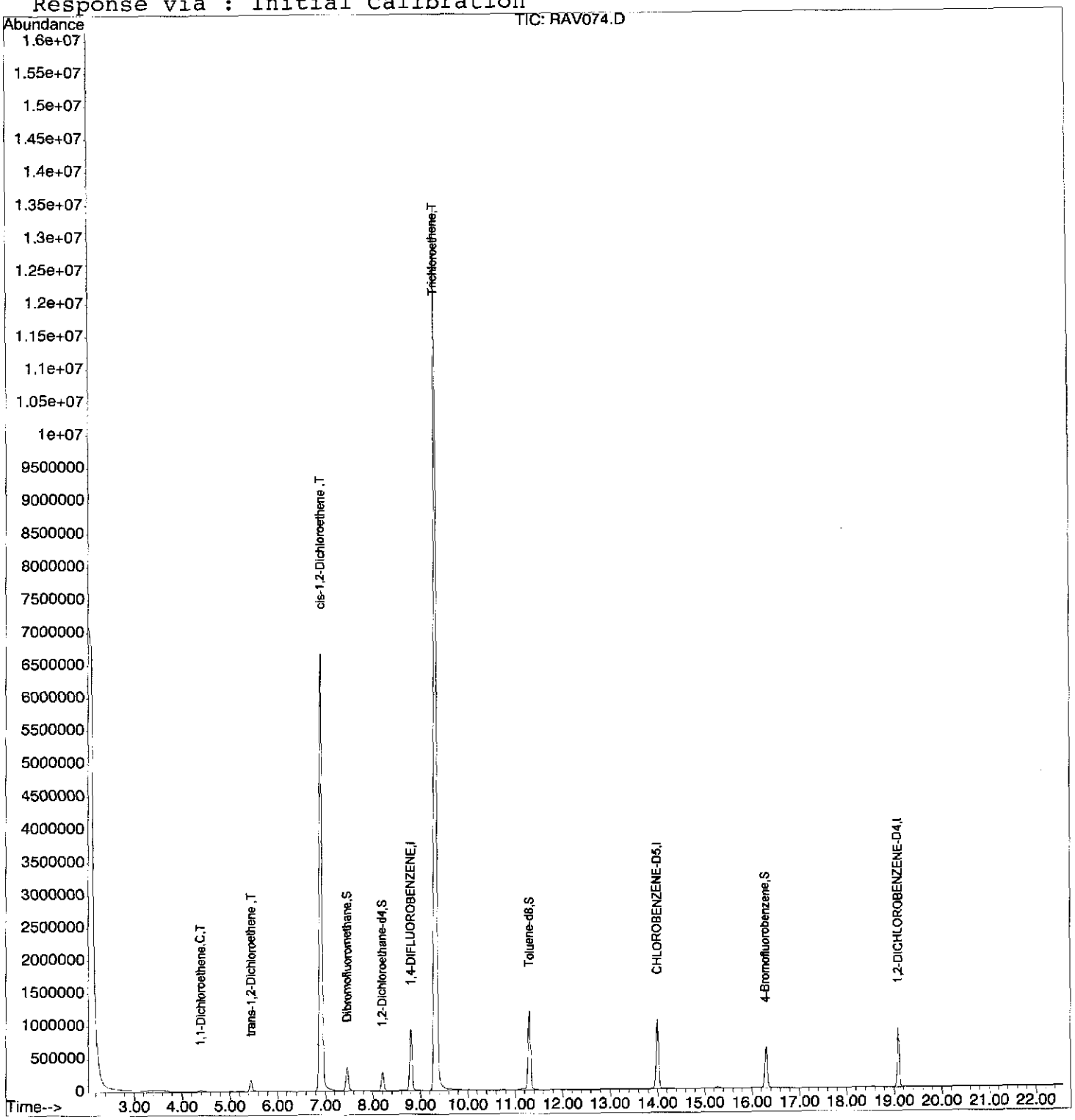
Quantitation Report

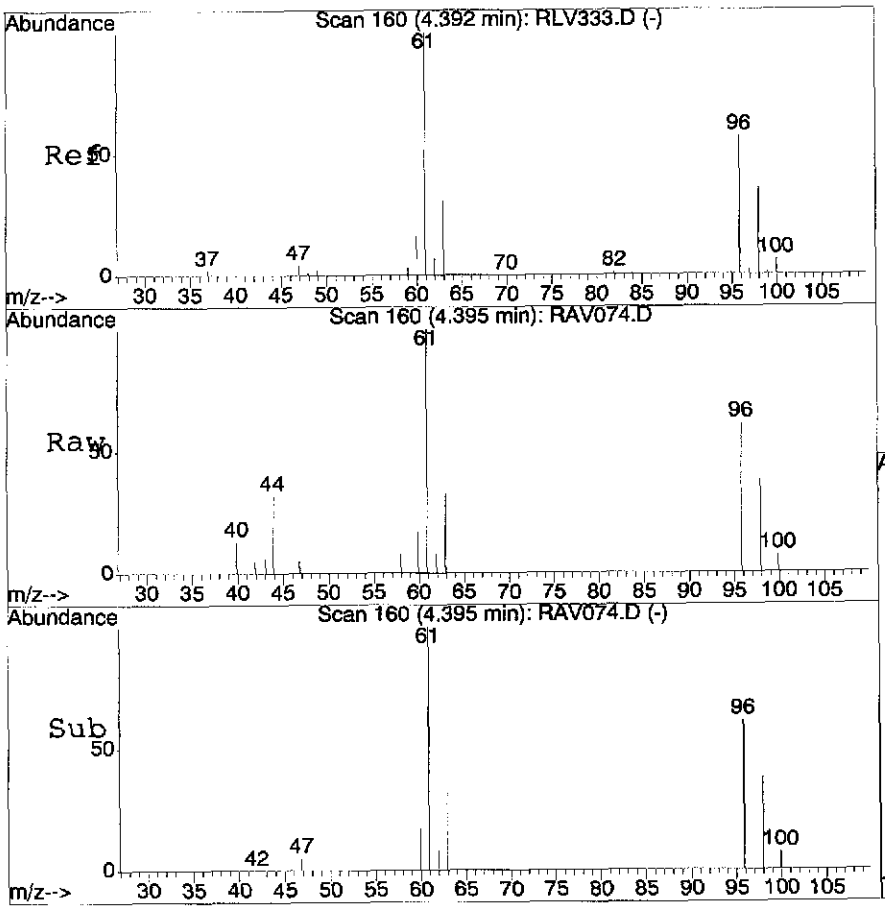
Data File : D:\HPCHEM\1\DATA\11A05\RAV074.D
Acq On : 6 Jan 2011 12:19 am
Sample : 11A027-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:39 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

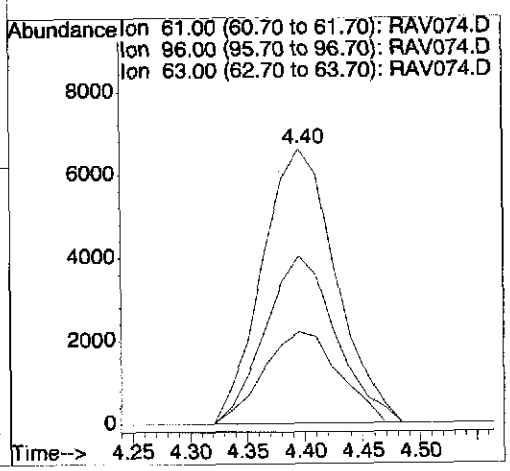


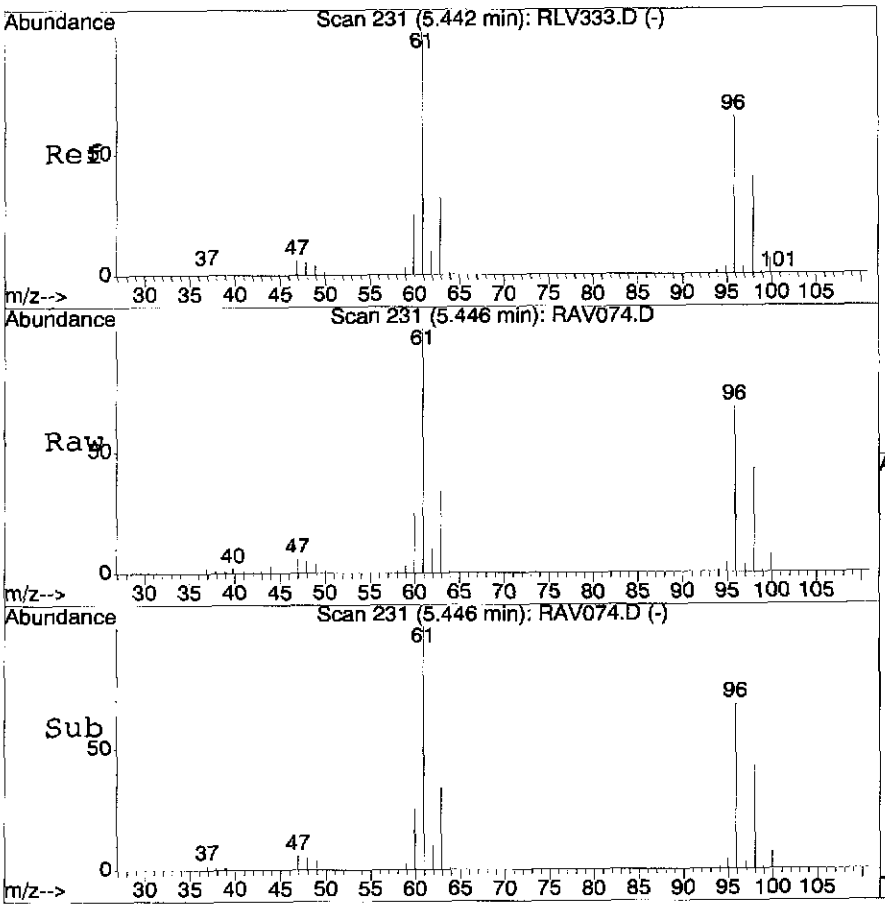


#14
1,1-Dichloroethene
Concen: 0.45 ug/l
RT: 4.40 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV074.D
Acq: 6 Jan 2011 12:19 am

Tgt Ion: 61 Resp: 29318

Ion	Ratio	Lower	Upper
61	100		
96	58.6	27.7	87.7
63	34.1	2.0	62.0

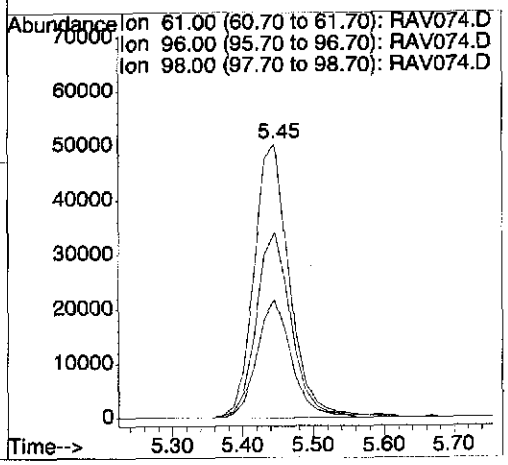


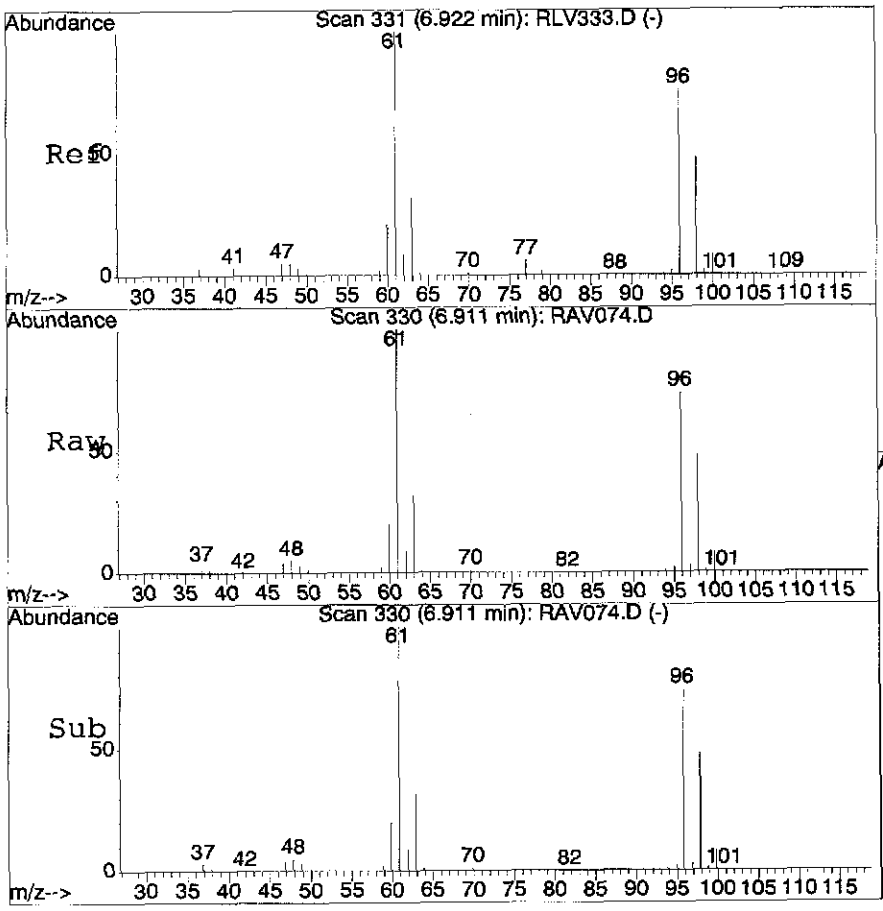


#23
trans-1,2-Dichloroethene
Concen: 2.43 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV074.D
Acq: 6 Jan 2011 12:19 am

Tgt Ion: 61 Resp: 176324

Ion	Ratio	Lower	Upper
61	100		
96	67.0	36.0	96.0
98	41.7	11.6	71.6

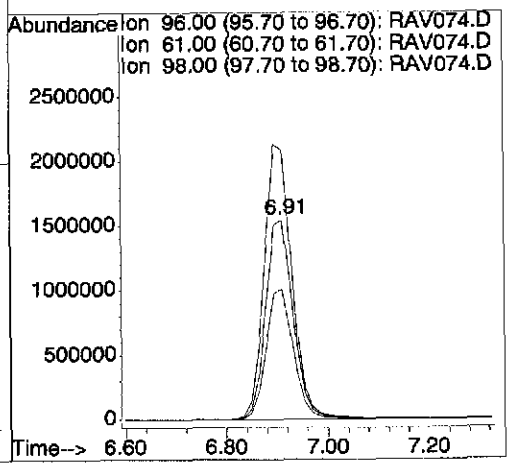


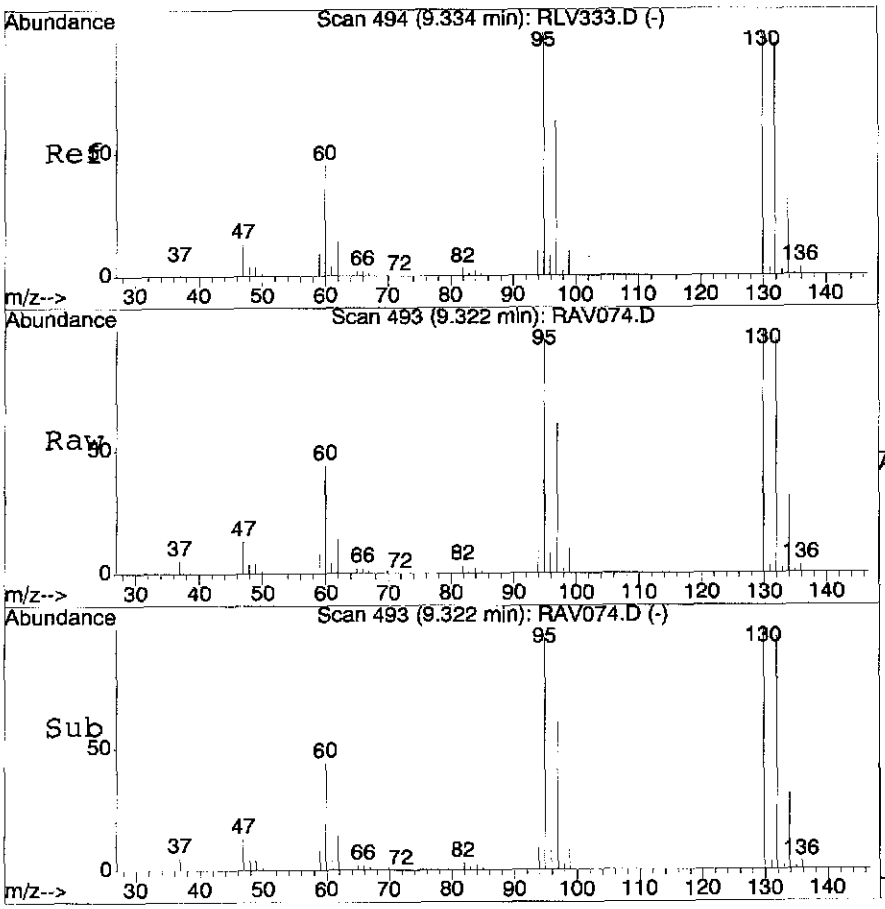


#31
cis-1,2-Dichloroethene
Concen: 111.26 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV074.D
Acq: 6 Jan 2011 12:19 am

Tgt Ion: 96 Resp: 5806181

Ion	Ratio	Lower	Upper
96	100		
61	138.4	123.3	183.3
98	65.0	33.4	93.4

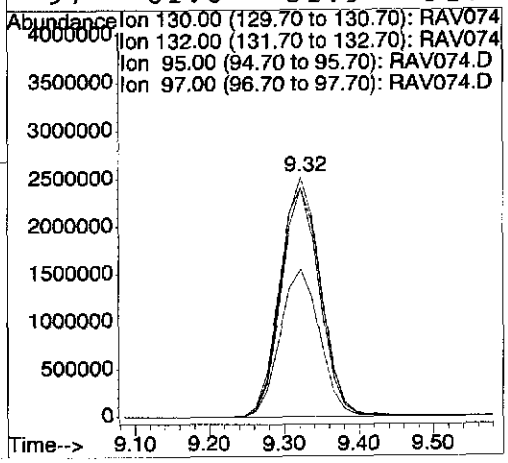




#46
Trichloroethene
Concen: 181.75 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV074.D
Acq: 6 Jan 2011 12:19 am

Tgt Ion:130 Resp: 9298513

Ion	Ratio	Lower	Upper
130	100		
132	95.3	64.2	124.2
95	96.5	67.2	127.2
97	61.6	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/07/11 09:31
Sample ID: SSI-GW-011DL	Date Analyzed: 01/07/11 09:31
Lab Samp ID: A027-11T	Dilution Factor: 10
Lab File ID: RAV117	Matrix : WATER
Ext Btch ID: V001A06	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	130	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.7J	10	2.0
TRICHLOROETHENE	210	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	104	100.0	104	70-120
4-BROMOFLUOROBENZENE	105	100.0	105	75-120
TOLUENE-D8	98.0	100.0	98.0	85-120
DIBROMOFLUOROMETHANE	102	100.0	102	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV117.D
Acq On : 7 Jan 2011 9:31 am
Sample : 11A027-11T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 10:04 2011

Vial: 12
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1259838	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1137963	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	390568	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	384335	10.18	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	101.80%	
40) 1,2-Dichloroethane-d4	8.21	65	307411	10.41	ug/l	0.00
Spiked Amount 10.000			Recovery	=	104.10%	
55) Toluene-d8	11.30	98	1452665	9.80	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.00%	
76) 4-Bromofluorobenzene	16.30	95	467021	10.54	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.40%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.44	61	17420	0.27	ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	617803	13.24	ug/l	91
46) Trichloroethene	9.34	130	1007048	21.44	ug/l	99

(#) = qualifier out of range (m) = manual integration

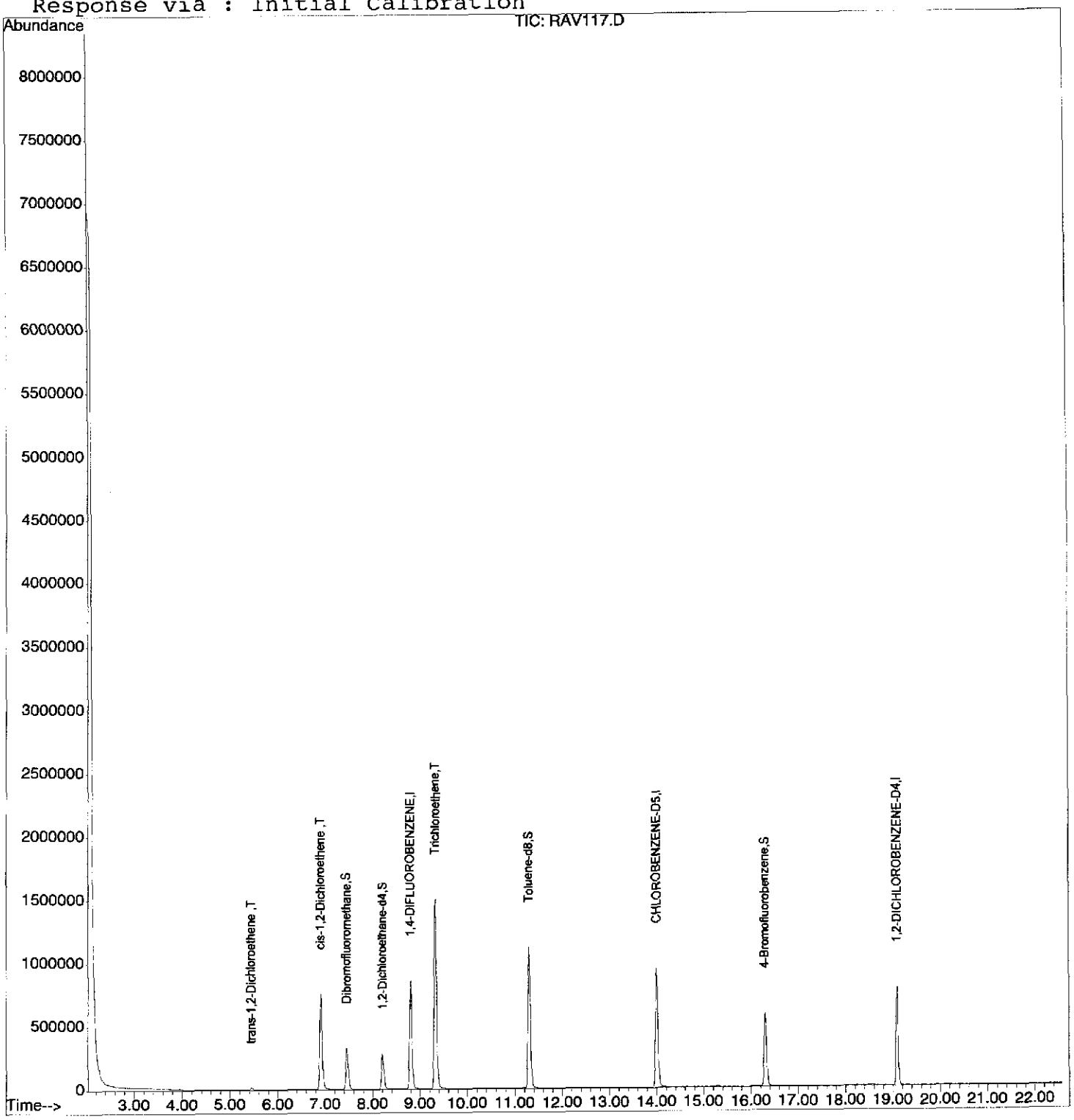
Quantitation Report

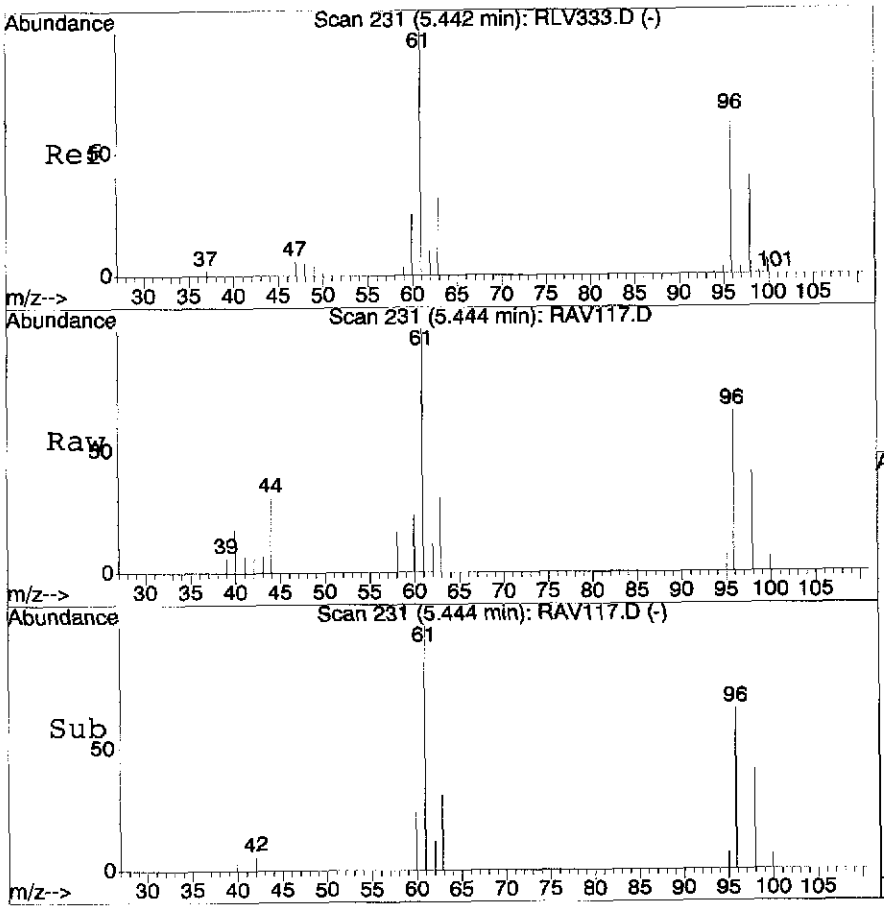
Data File : D:\HPCHEM\1\DATA\11A06\RAV117.D
Acq On : 7 Jan 2011 9:31 am
Sample : 11A027-11T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 10:04 2011

Vial: 12
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

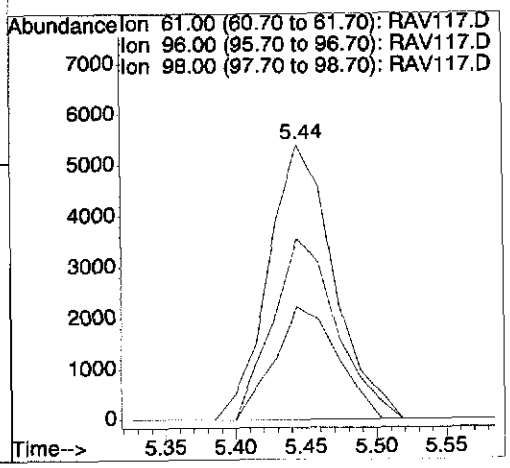


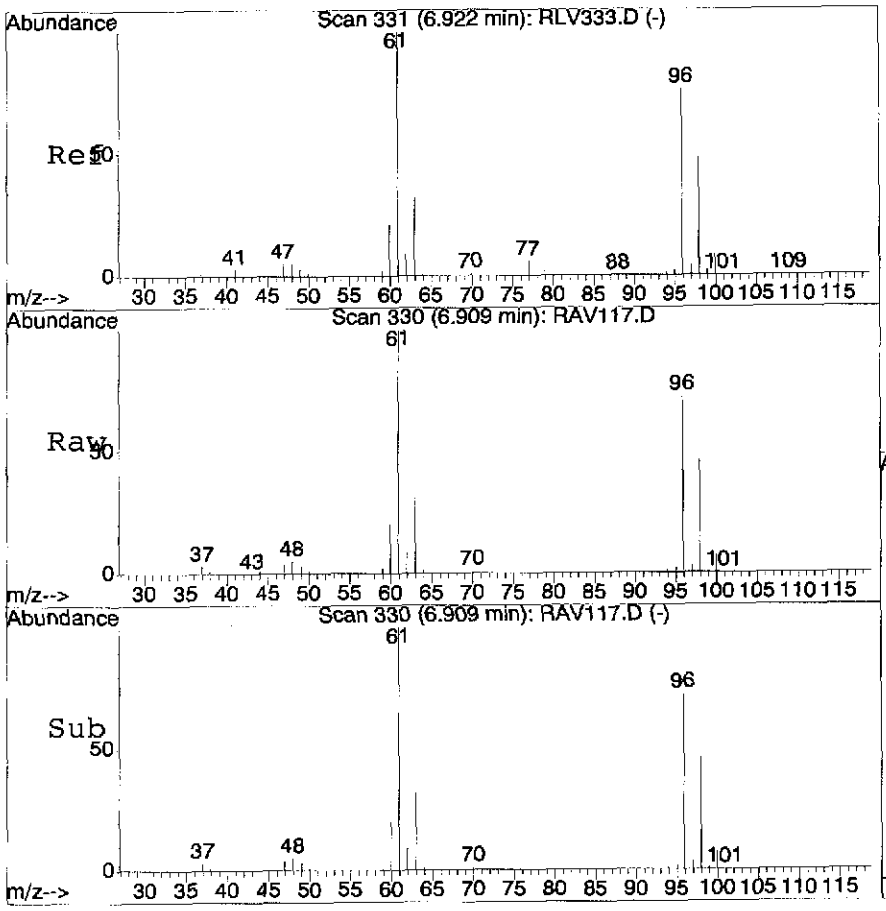


#23
trans-1,2-Dichloroethene
Concen: 0.27 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV117.D
Acq: 7 Jan 2011 9:31 am

Tgt Ion: 61 Resp: 17420

Ion	Ratio	Lower	Upper
61	100		
96	64.4	36.0	96.0
98	39.6	11.6	71.6

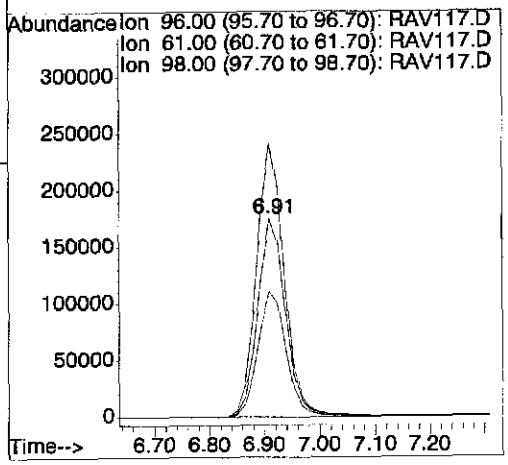


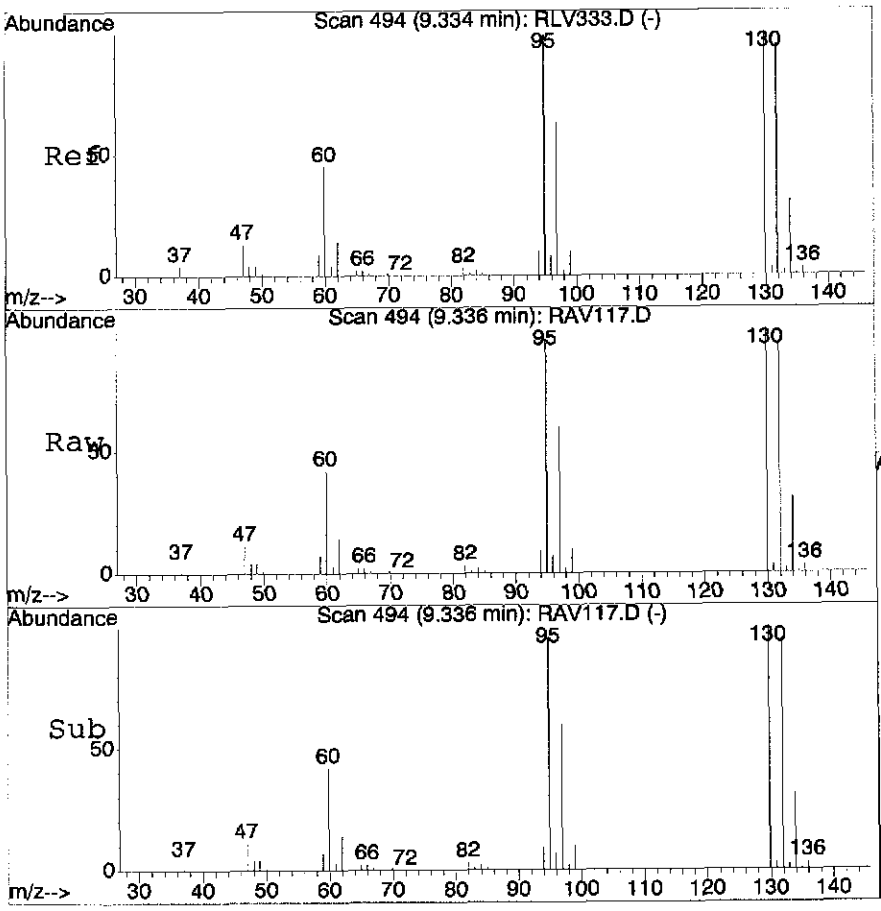


#31
cis-1,2-Dichloroethene
Concen: 13.24 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV117.D
Acq: 7 Jan 2011 9:31 am

Tgt Ion: 96 Resp: 617803

Ion	Ratio	Lower	Upper
96	100		
61	137.3	123.3	183.3
98	64.6	33.4	93.4

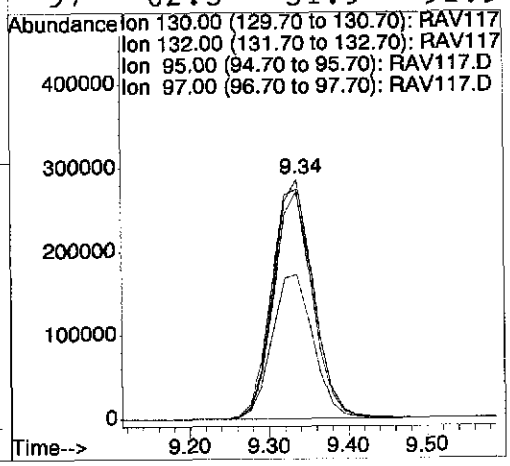




#46
Trichloroethene
Concen: 21.44 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV117.D
Acq: 7 Jan 2011 9:31 am

Tgt Ion:130 Resp: 1007048

Ion	Ratio	Lower	Upper
130	100		
132	94.8	64.2	124.2
95	98.7	67.2	127.2
97	62.3	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/06/11 00:51
Sample ID: SSI-D-001	Date Analyzed: 01/06/11 00:51
Lab Samp ID: A027-12	Dilution Factor: 1
Lab File ID: RAV075	Matrix : WATER
Ext Btch ID: V001A04	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	0.94J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	140E	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	2.8	1.0	0.20
TRICHLOROETHENE	290E	1.0	0.20
VINYL CHLORIDE	0.23J	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.8	10.00	108	75-120
TOLUENE-D8	9.88	10.00	98.8	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV075.D
Acq On : 6 Jan 2011 12:51 am
Sample : 11A027-12 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:39 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1361533	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	13.99	117	1207692	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	402769	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	406765	9.97	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.70%	
40) 1,2-Dichloroethane-d4	8.19	65	316331	9.91	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.10%	
55) Toluene-d8	11.30	98	1554854	9.88	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.80%	
76) 4-Bromofluorobenzene	16.30	95	492465	10.78	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	107.80%	
Target Compounds						Qvalue
5) Vinyl chloride	2.68	62	8979	0.23	ug/l	92
14) 1,1-Dichloroethene	4.39	61	59114	0.94	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	195315	2.78	ug/l	100
31) cis-1,2-Dichloroethene	6.91	96	6965998	138.12	ug/l	91
46) Trichloroethene	9.32	130	14517101	291.20	ug/l	99

(#) = qualifier out of range (m) = manual integration

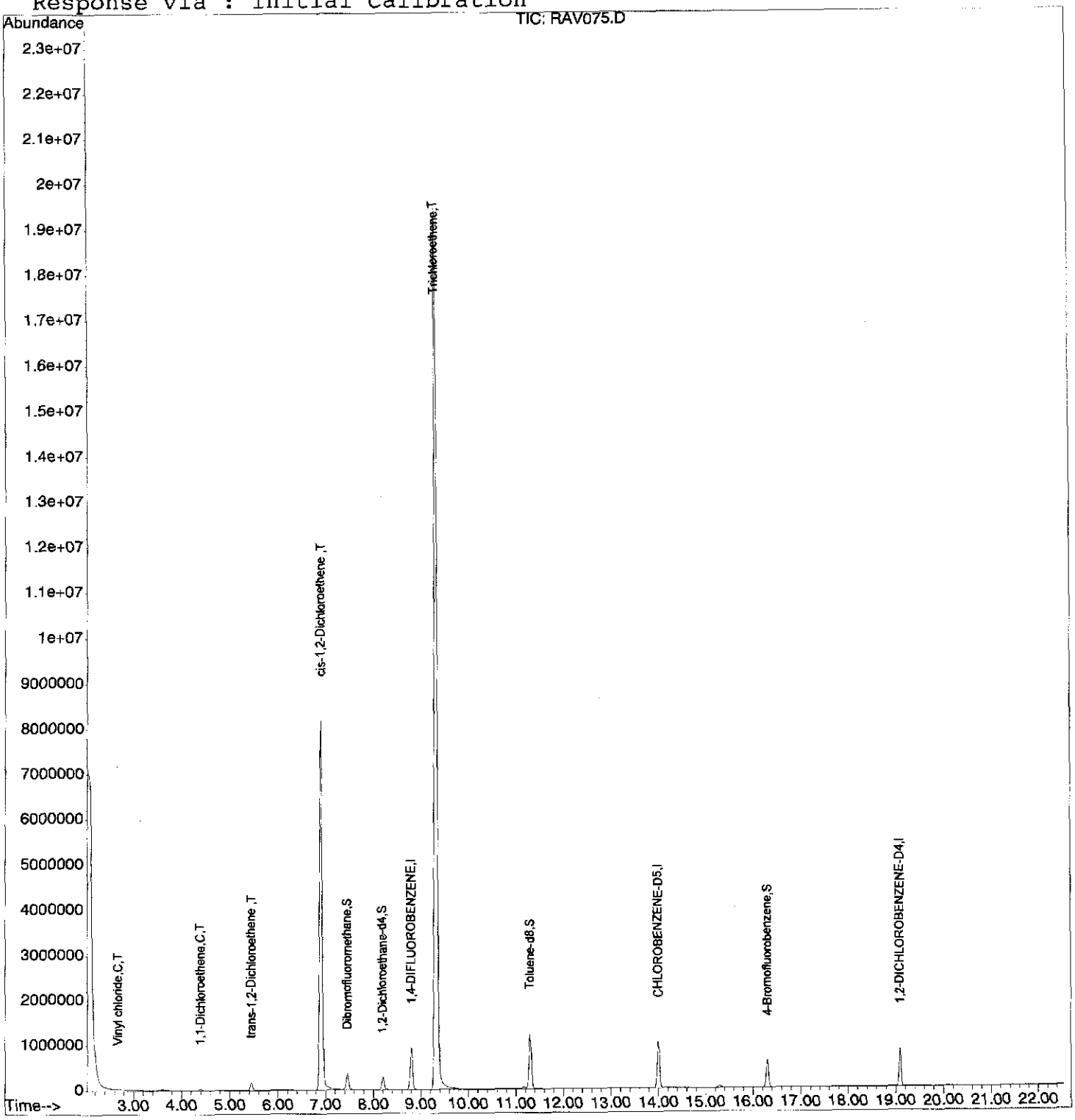
Quantitation Report

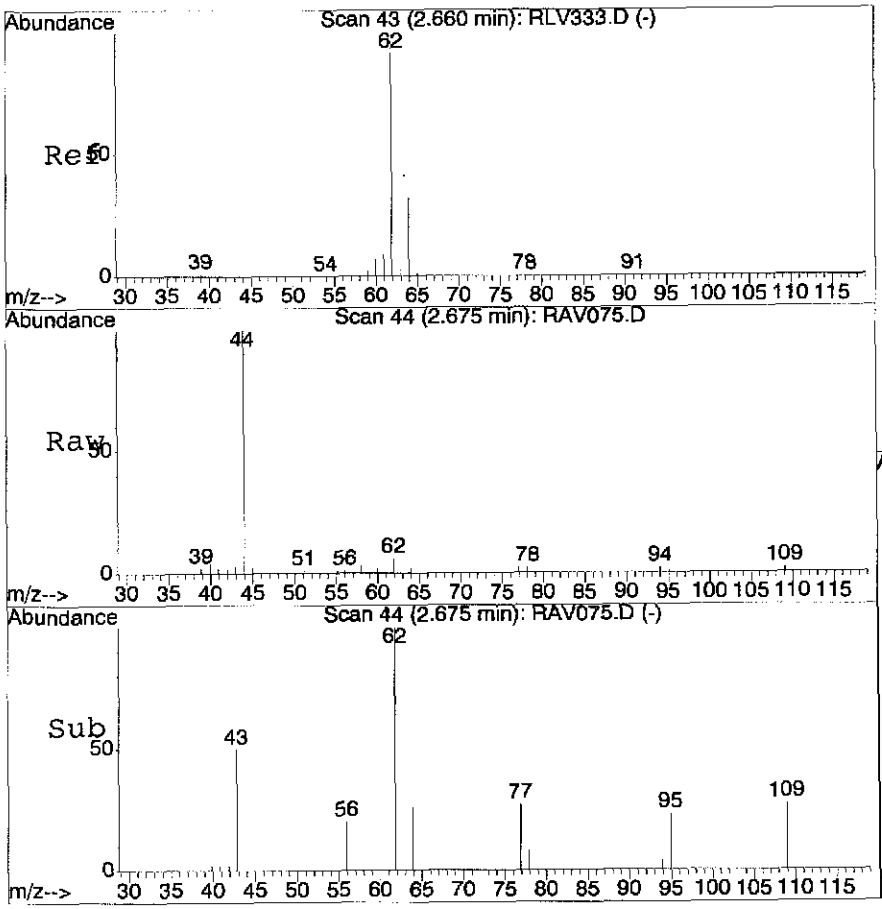
Data File : D:\HPCHEM\1\DATA\11A05\RAV075.D
Acq On : 6 Jan 2011 12:51 am
Sample : 11A027-12 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 6 6:39 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

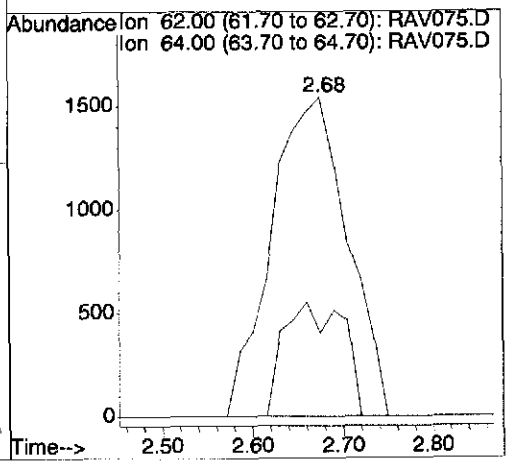


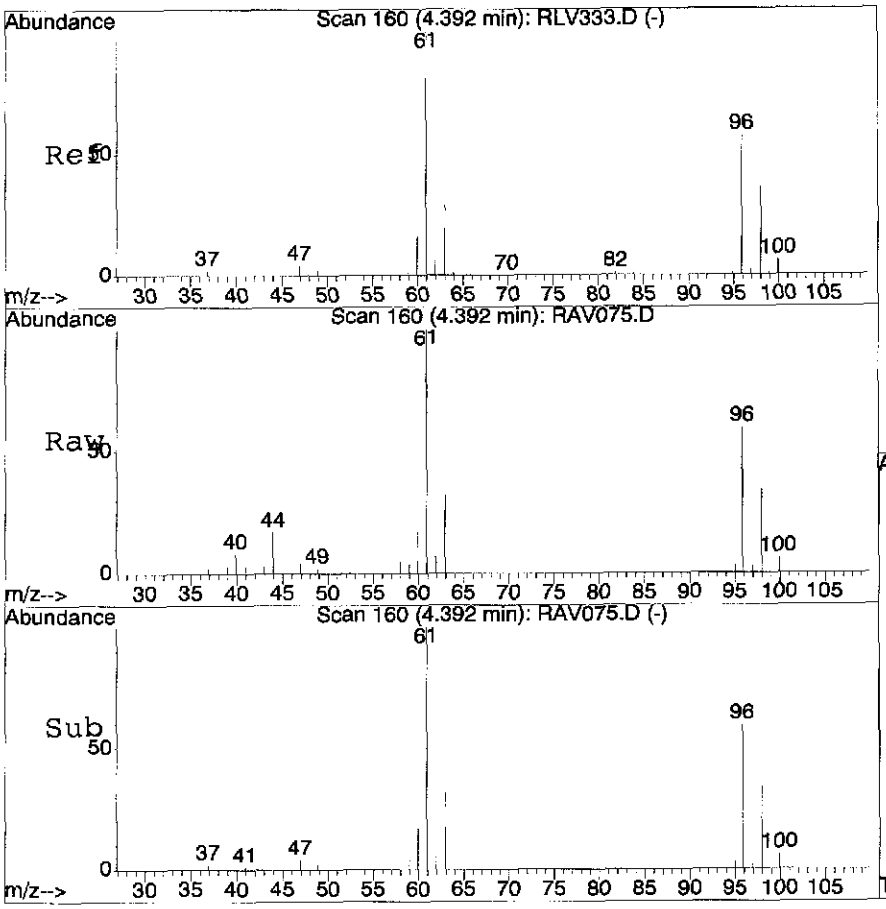


#5
Vinyl chloride
Concen: 0.23 ug/l
RT: 2.68 min Scan# 44
Delta R.T. 0.02 min
Lab File: RAV075.D
Acq: 6 Jan 2011 12:51 am

Tgt Ion: 62 Resp: 8979

Ion	Ratio	Lower	Upper
62	100		
64	27.8	2.5	62.5

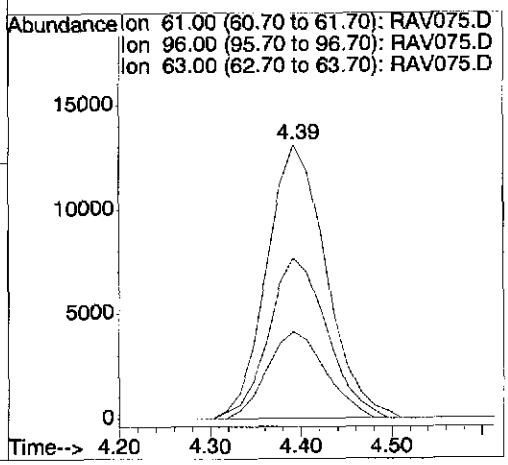


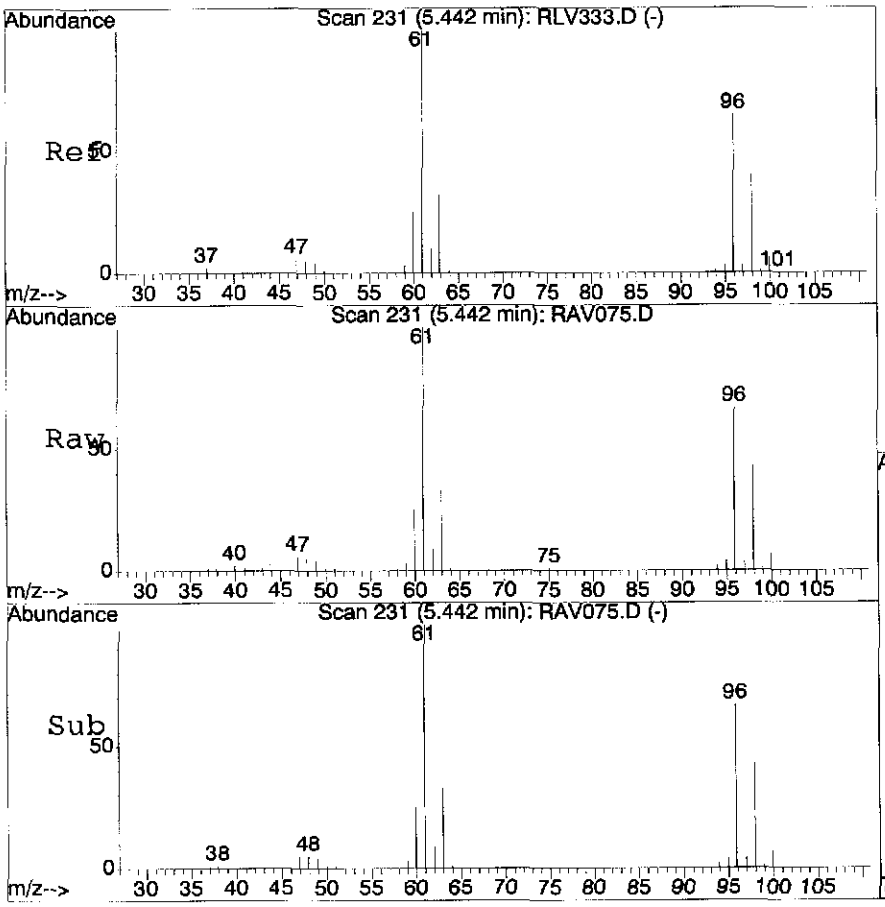


#14
1,1-Dichloroethene
Concen: 0.94 ug/l
RT: 4.39 min Scan# 160
Delta R.T. 0.00 min
Lab File: RAV075.D
Acq: 6 Jan 2011 12:51 am

Tgt Ion: 61 Resp: 59114

Ion	Ratio	Lower	Upper
61	100		
96	57.5	27.7	87.7
63	31.1	2.0	62.0

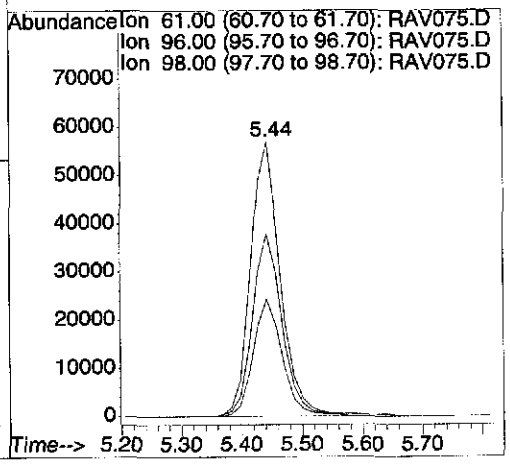


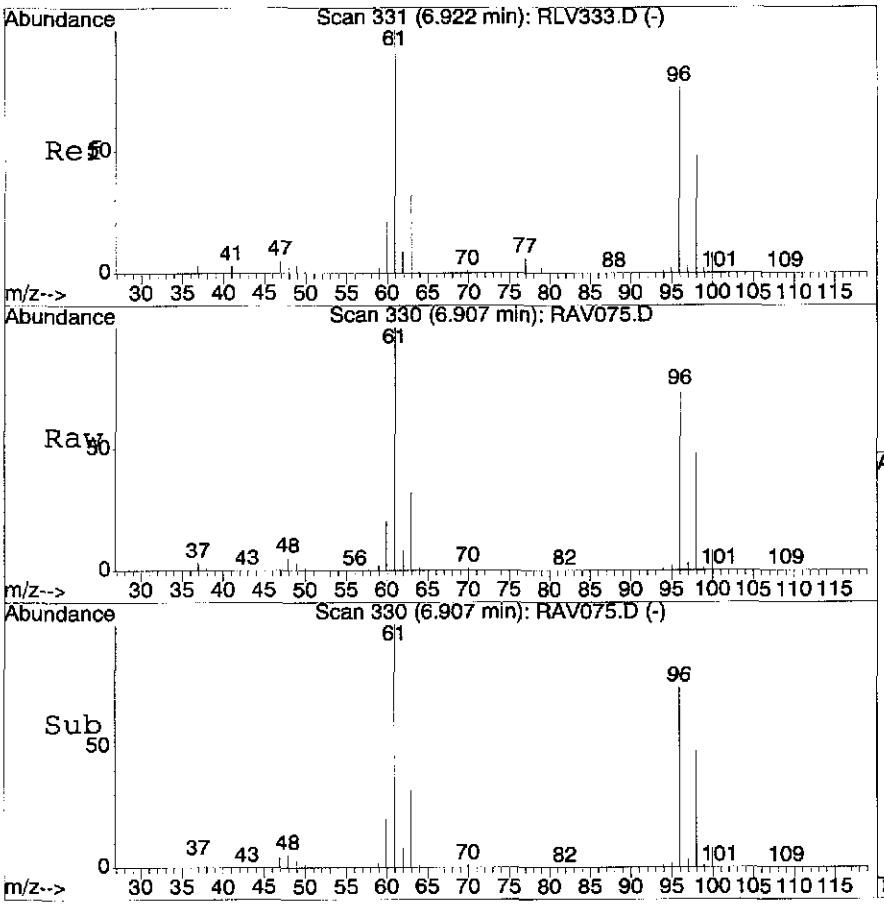


#23
trans-1,2-Dichloroethene
Concen: 2.78 ug/l
RT: 5.44 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV075.D
Acq: 6 Jan 2011 12:51 am

Tgt Ion: 61 Resp: 195315

Ion	Ratio	Lower	Upper
61	100		
96	65.9	36.0	96.0
98	41.4	11.6	71.6

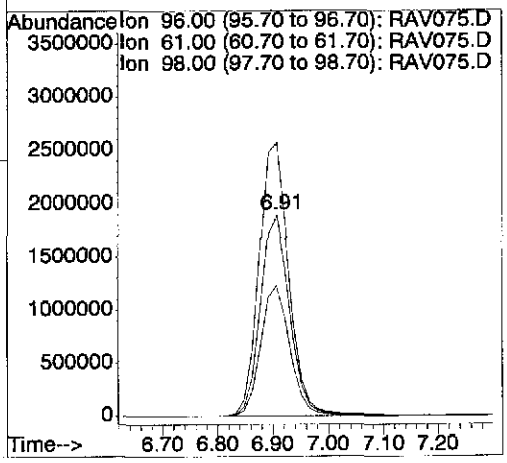


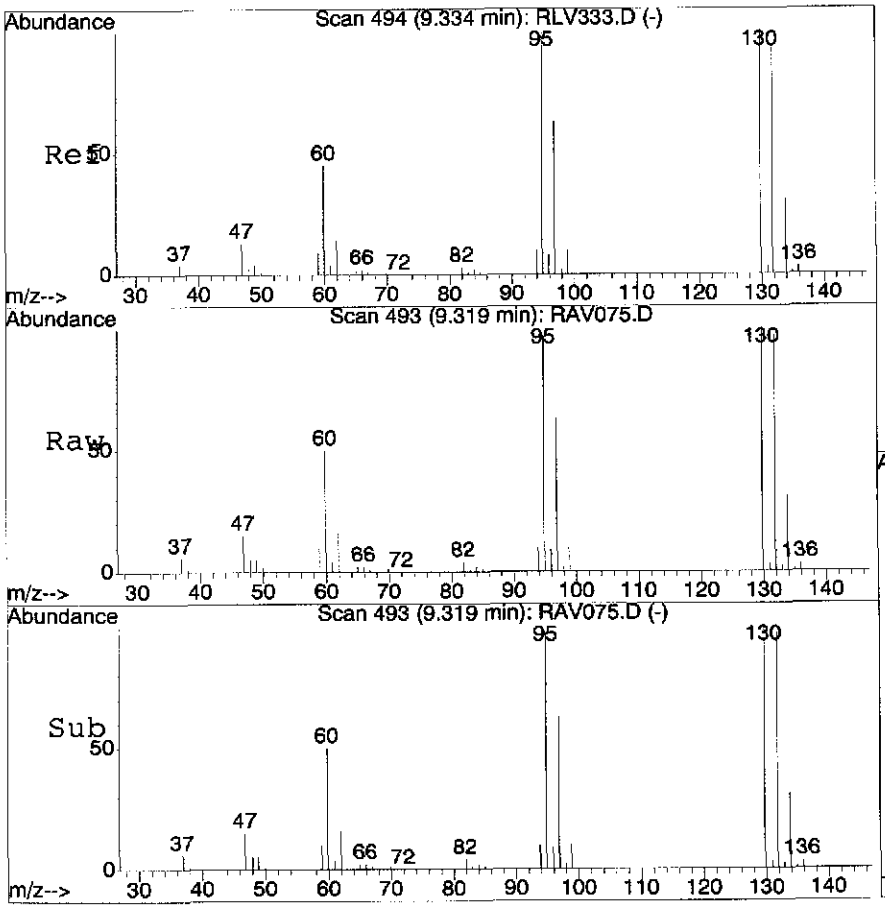


#31
cis-1,2-Dichloroethene
Concen: 138.12 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV075.D
Acq: 6 Jan 2011 12:51 am

Tgt Ion: 96 Resp: 6965998

Ion	Ratio	Lower	Upper
96	100		
61	138.7	123.3	183.3
98	65.1	33.4	93.4

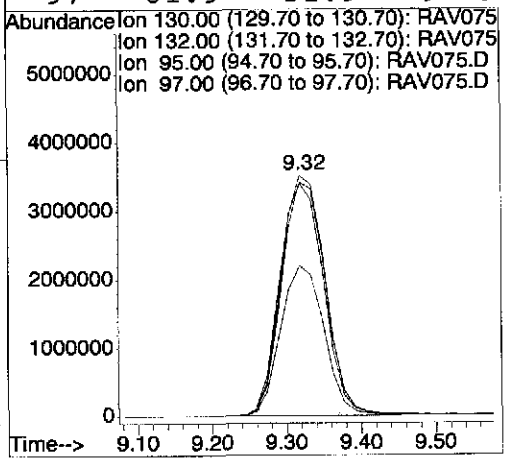




#46
Trichloroethene
Concen: 291.20 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RAV075.D
Acq: 6 Jan 2011 12:51 am

Tgt Ion:130 Resp:14517101

Ion	Ratio	Lower	Upper
130	100		
132	96.3	64.2	124.2
95	96.5	67.2	127.2
97	61.9	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/03/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/07/11 10:05
Sample ID: SSI-D-001DL	Date Analyzed: 01/07/11 10:05
Lab Samp ID: A027-12T	Dilution Factor: 10
Lab File ID: RAV118	Matrix : WATER
Ext Btch ID: V001A06	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	50
2-HEXANONE	ND	100	50
4-METHYL-2-PENTANONE	ND	100	50
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	2.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	160	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	5.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	2.9J	10	2.0
TRICHLOROETHENE	400	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	103	100.0	103	70-120
4-BROMOFLUOROBENZENE	104	100.0	104	75-120
TOLUENE-D8	98.0	100.0	98.0	85-120
DIBROMOFLUOROMETHANE	102	100.0	102	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV118.D
Acq On : 7 Jan 2011 10:05 am
Sample : 11A027-12T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 10:29 2011

Vial: 13
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1260723	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1135873	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	397158	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	387172	10.25	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	102.50%	
40) 1,2-Dichloroethane-d4	8.21	65	304000	10.29	ug/l	0.00
Spiked Amount 10.000			Recovery	=	102.90%	
55) Toluene-d8	11.30	98	1450636	9.80	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.00%	
76) 4-Bromofluorobenzene	16.31	95	470174	10.44	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	104.40%	
Target Compounds						Qvalue
23) trans-1,2-Dichloroethene	5.45	61	19004	0.29	ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	742112	15.89	ug/l	91
46) Trichloroethene	9.34	130	1881370	40.12	ug/l	100

(#) = qualifier out of range (m) = manual integration

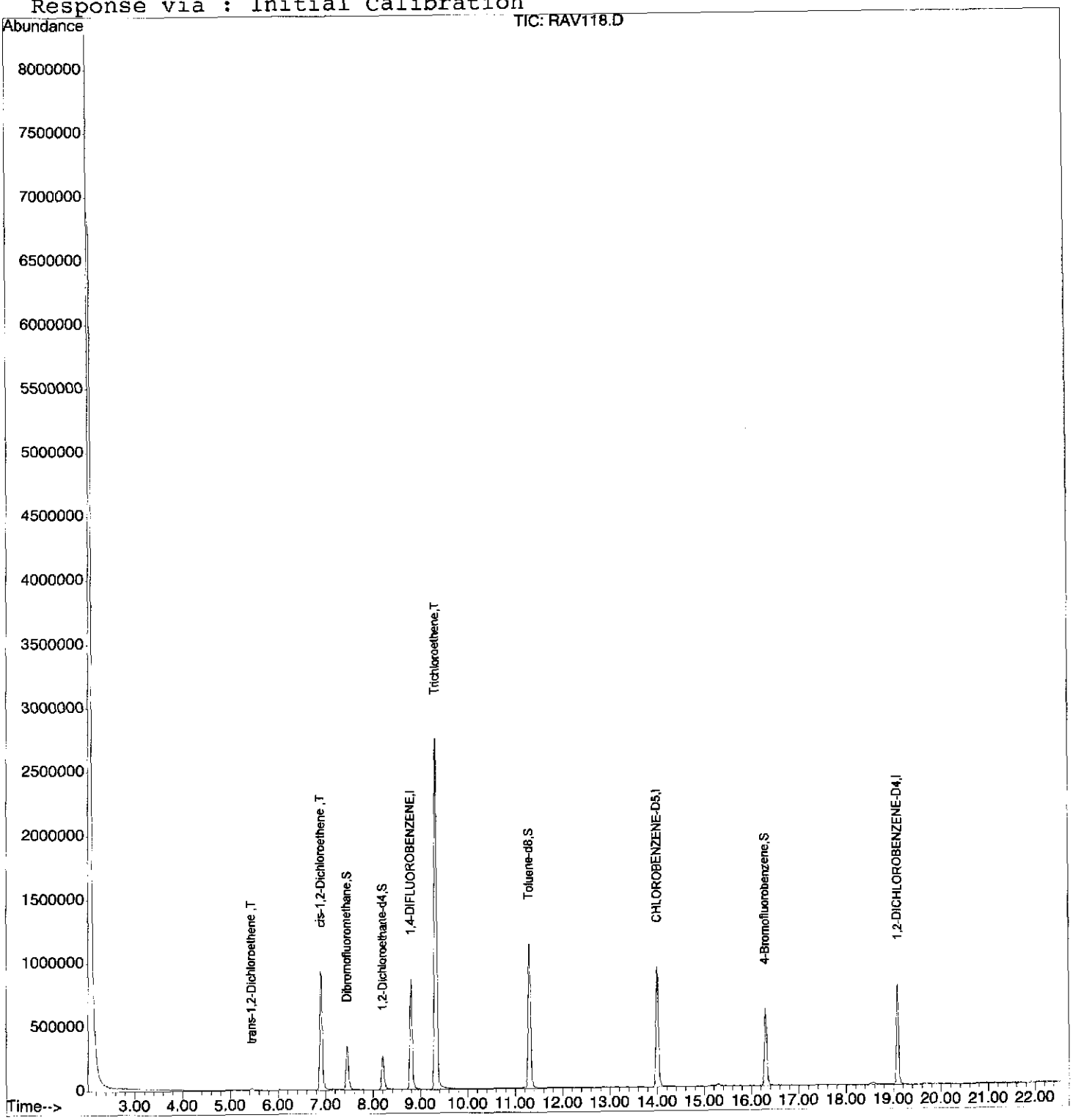
Quantitation Report

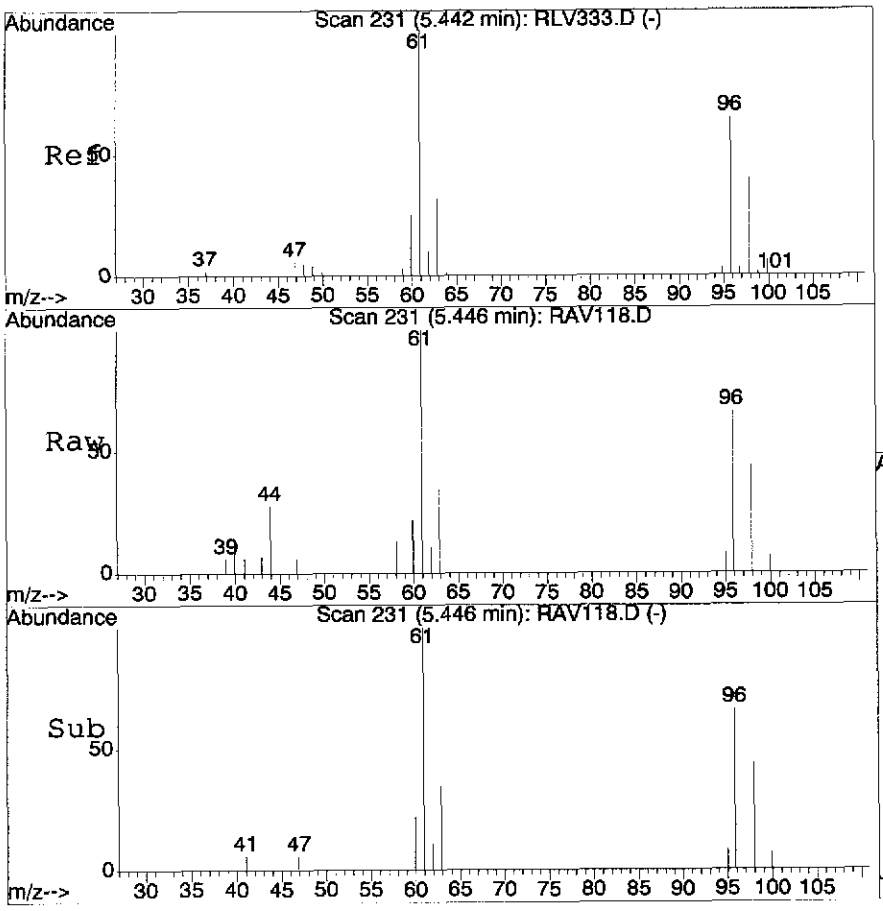
Data File : D:\HPCHEM\1\DATA\11A06\RAV118.D
Acq On : 7 Jan 2011 10:05 am
Sample : 11A027-12T 2.5mL
Misc : DF=10
MS Integration Params: 524C.P
Quant Time: Jan 7 10:29 2011

Vial: 13
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

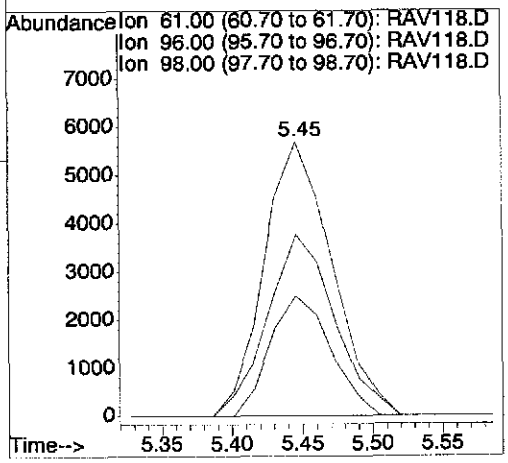


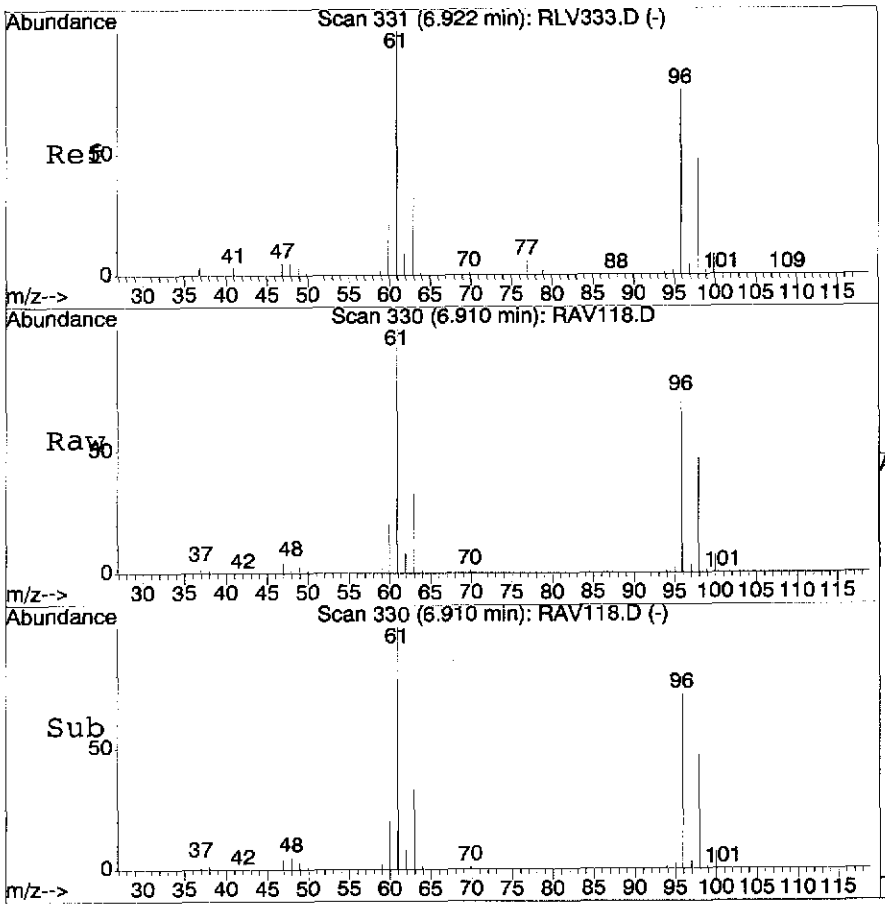


#23
trans-1,2-Dichloroethene
Concen: 0.29 ug/l
RT: 5.45 min Scan# 231
Delta R.T. 0.00 min
Lab File: RAV118.D
Acq: 7 Jan 2011 10:05 am

Tgt Ion: 61 Resp: 19004

Ion	Ratio	Lower	Upper
61	100		
96	65.8	36.0	96.0
98	39.3	11.6	71.6

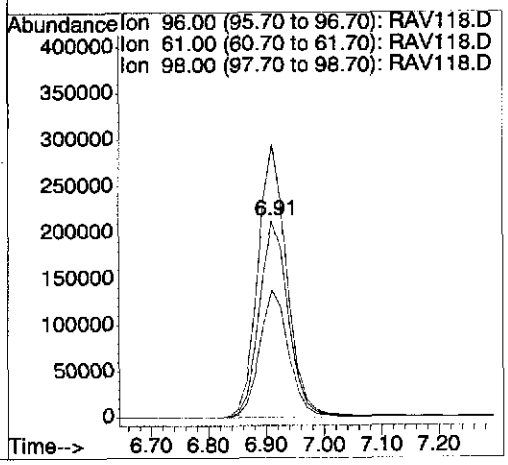


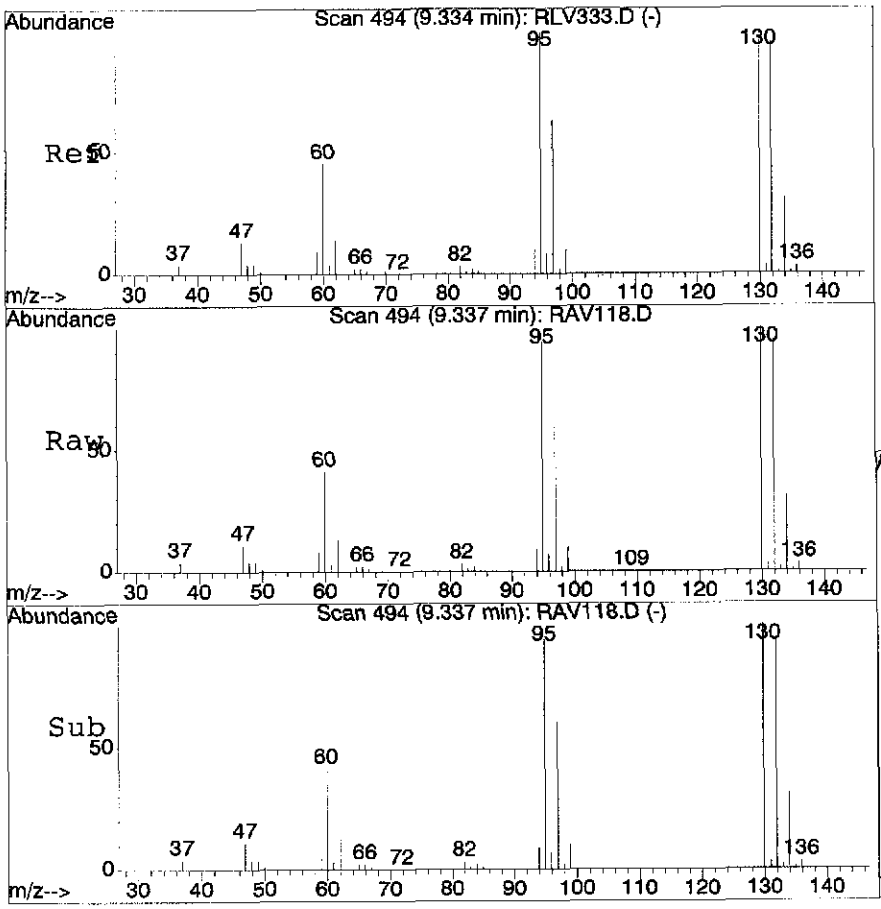


#31
cis-1,2-Dichloroethene
Concen: 15.89 ug/l
RT: 6.91 min Scan# 330
Delta R.T. -0.01 min
Lab File: RAV118.D
Acq: 7 Jan 2011 10:05 am

Tgt Ion: 96 Resp: 742112

Ion	Ratio	Lower	Upper
96	100		
61	138.8	123.3	183.3
98	64.9	33.4	93.4

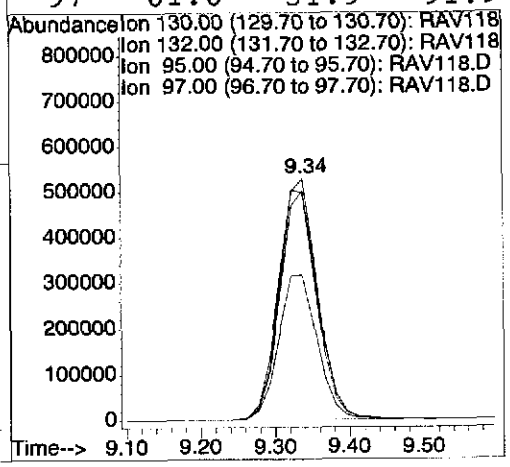




#46
Trichloroethene
Concen: 40.12 ug/l
RT: 9.34 min Scan# 494
Delta R.T. 0.00 min
Lab File: RAV118.D
Acq: 7 Jan 2011 10:05 am

Tgt Ion:130 Resp: 1881370

Ion	Ratio	Lower	Upper
130	100		
132	94.4	64.2	124.2
95	97.4	67.2	127.2
97	61.6	31.9	91.9



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 19:49
Sample ID:	SSI-ER-001	Date Analyzed:	01/06/11 19:49
Lab Samp ID:	A027-13R	Dilution Factor:	1
Lab File ID:	RAV092	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.88	10.00	98.8	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.89	10.00	98.9	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV092.D
Acq On : 6 Jan 2011 7:49 pm
Sample : 11A027-13R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:06 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1415748	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1270109	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	432972	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	419561	9.89	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.90%	
40) 1,2-Dichloroethane-d4	8.21	65	327873	9.88	ug/l	0.00
Spiked Amount 10.000			Recovery	=	98.80%	
55) Toluene-d8	11.30	98	1616136	9.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.70%	
76) 4-Bromofluorobenzene	16.31	95	523066	10.65	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.50%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV092.D VO01L11.M Fri Jan 07 06:06:30 2011

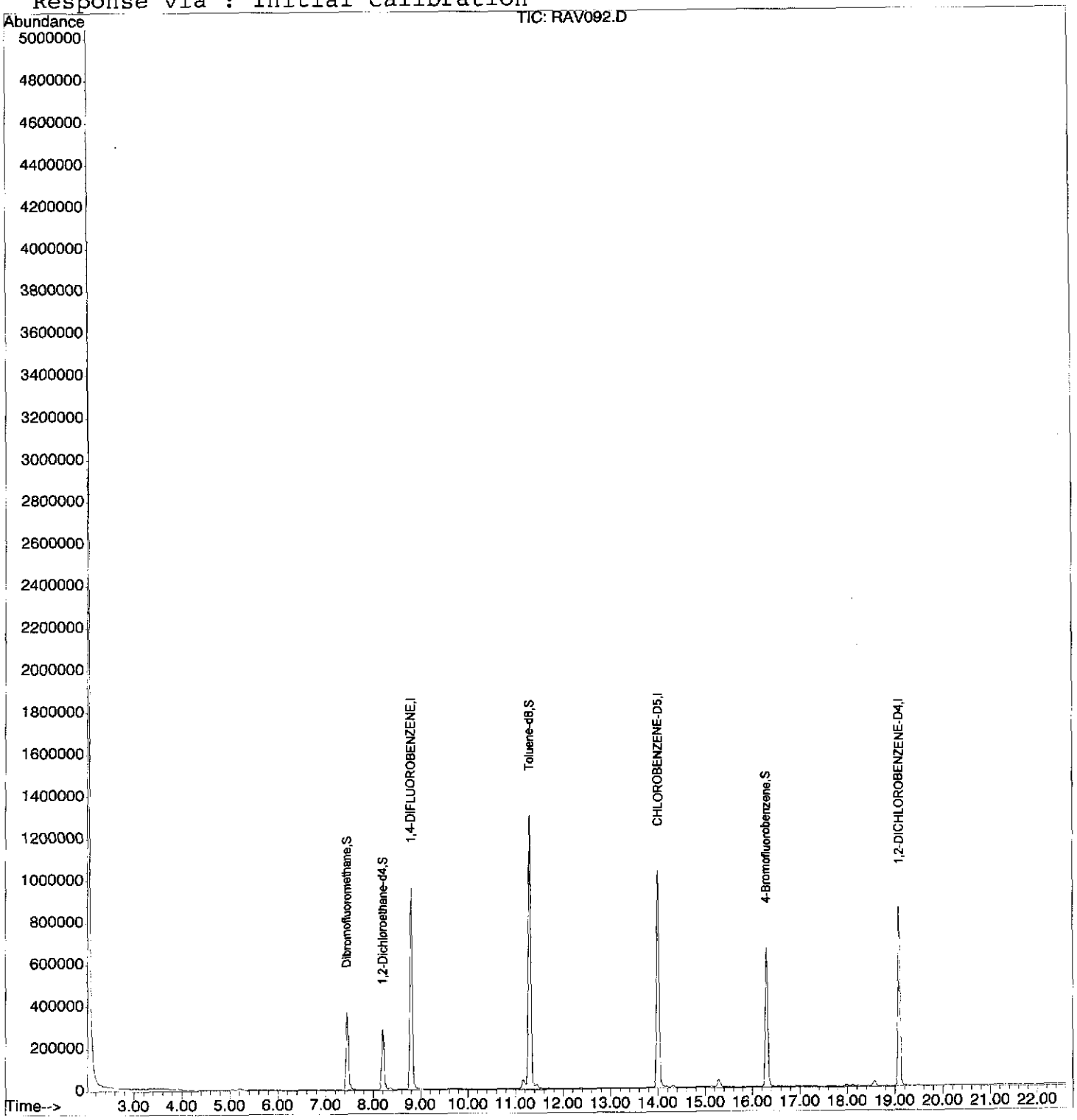
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV092.D
Acq On : 6 Jan 2011 7:49 pm
Sample : 11A027-13R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:06 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	01/04/11
Project	: OPHA MOFFETT	Date Received:	01/05/11
Batch No.	: 11A027	Date Extracted:	01/06/11 20:22
Sample ID:	SSI-SWB-001	Date Analyzed:	01/06/11 20:22
Lab Samp ID:	A027-14R	Dilution Factor:	1
Lab File ID:	RAV093	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.66	10.00	96.6	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.67	10.00	96.7	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV093.D
Acq On : 6 Jan 2011 8:22 pm
Sample : 11A027-14R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:06 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1419950	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1240248	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	427501	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	411620	9.67	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.70%	
40) 1,2-Dichloroethane-d4	8.20	65	321559	9.66	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.60%	
55) Toluene-d8	11.30	98	1601033	9.91	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.10%	
76) 4-Bromofluorobenzene	16.31	95	509525	10.51	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.10%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV093.D VO01L11.M Fri Jan 07 06:06:55 2011

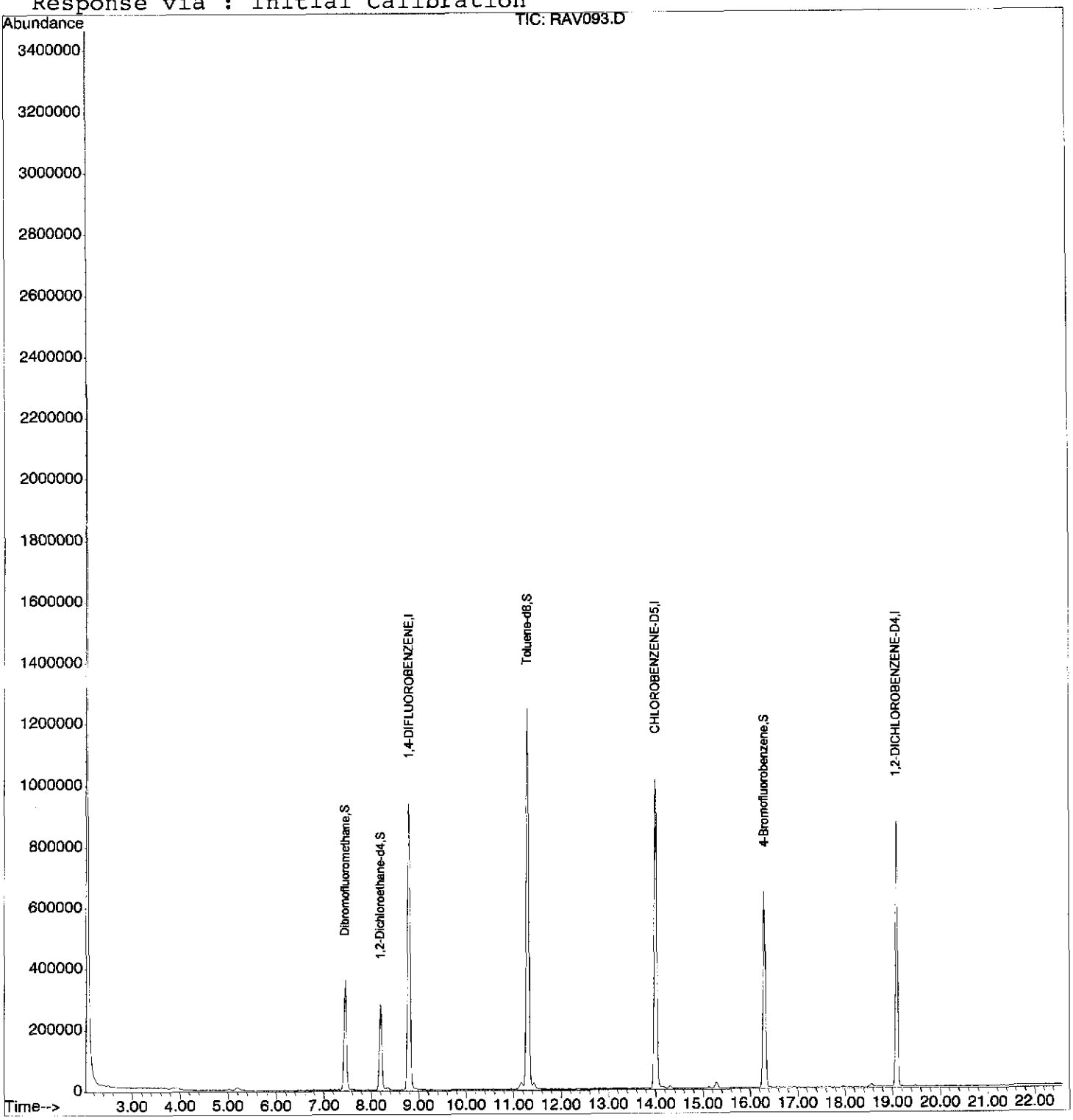
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV093.D
Acq On : 6 Jan 2011 8:22 pm
Sample : 11A027-14R 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 7 6:06 2011

Vial: 11
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 01/04/11
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 14:08
Sample ID: SSI-TB-002	Date Analyzed: 01/05/11 14:08
Lab Samp ID: A027-15	Dilution Factor: 1
Lab File ID: RAV055	Matrix : WATER
Ext Btch ID: V001A03	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	8.90	10.00	89.0	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.21	10.00	92.1	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV055.D
Acq On : 5 Jan 2011 2:08 pm
Sample : 11A027-15 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 5 14:44 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1381266	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1156267	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	382369	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	381291	9.21	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	92.10%	
40) 1,2-Dichloroethane-d4	8.20	65	288140	8.90	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	89.00%	
55) Toluene-d8	11.30	98	1560486	10.36	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	103.60%	
76) 4-Bromofluorobenzene	16.30	95	471812	10.88	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	108.80%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV055.D VO01L11.M Wed Jan 05 14:44:37 2011

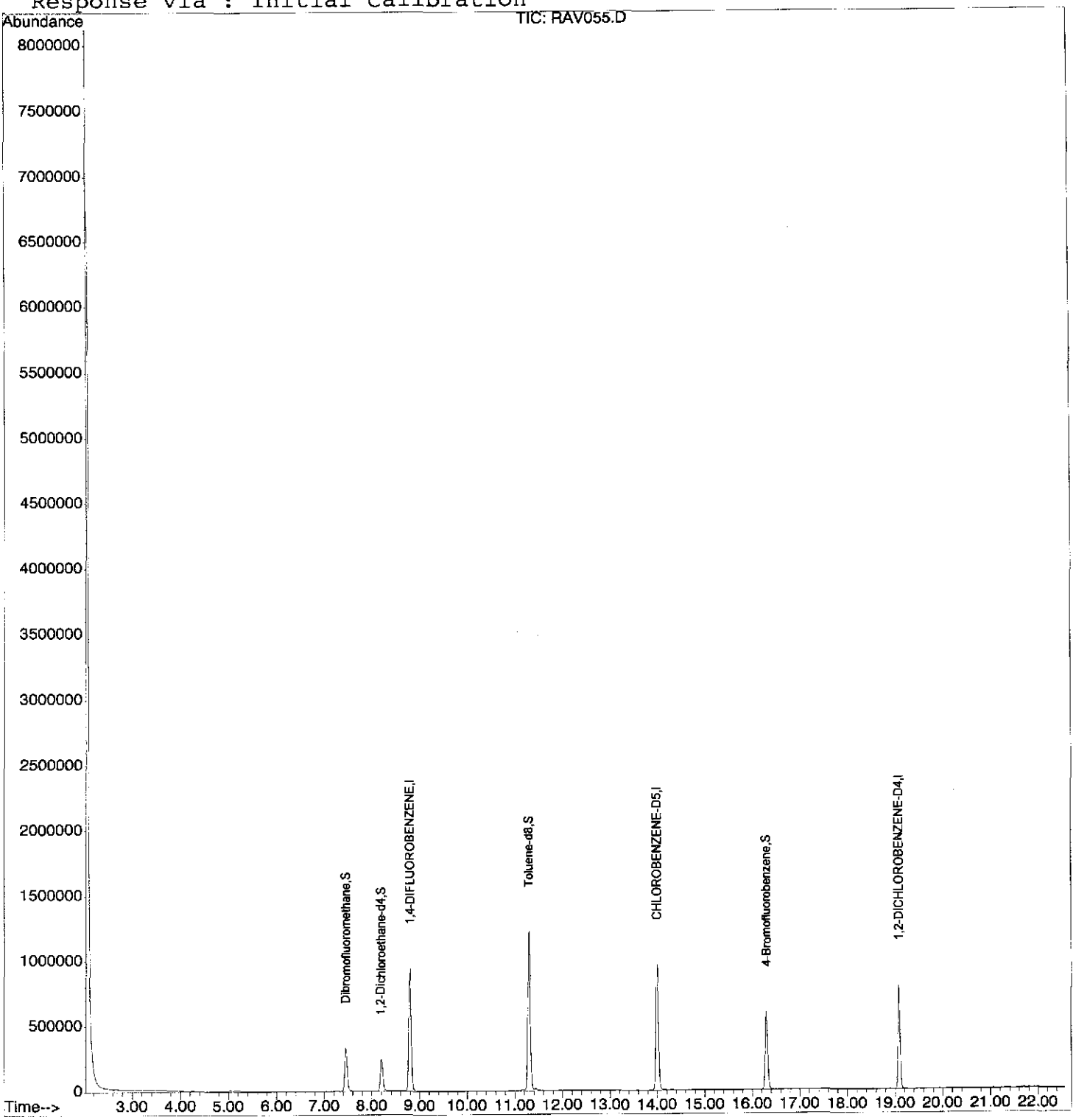
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV055.D
Acq On : 5 Jan 2011 2:08 pm
Sample : 11A027-15 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 5 14:44 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



2124A

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 10:22
Sample ID: MBLK1W	Date Analyzed: 01/05/11 10:22
Lab Samp ID: V001A03B	Dilution Factor: 1
Lab File ID: RAV048	Matrix : WATER
Ext Btch ID: V001A03	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.99	10.00	99.9	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	9.96	10.00	99.6	85-120
DIBROMOFLUOROMETHANE	9.86	10.00	98.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001A03B	V001A03L	V001A03C		
LAB FILE ID:	RAV048	RAV045	RAV046		
DATE EXTRACTED:	01/05/1110:22	01/05/1108:44	01/05/1109:17	DATE COLLECTED:	NA
DATE ANALYZED:	01/05/1110:22	01/05/1108:44	01/05/1109:17	DATE RECEIVED:	01/05/11
PREP. BATCH:	V001A03	V001A03	V001A03		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.3	103	10.0	10.3	103	0	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.88	99	10.0	9.16	92	8	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.85	99	10.0	9.49	95	4	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	10.6	106	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.76	98	10.0	11.0	110	12	70-130	30
1,2-Dichloroethane	ND	10.0	9.70	97	10.0	9.61	96	1	70-130	30
2-Butanone	ND	50.0	47.4	95	50.0	46.4	93	2	30-150	30
2-Hexanone	ND	50.0	45.7	91	50.0	45.0	90	2	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.0	90	50.0	44.1	88	2	60-135	30
Benzene	ND	10.0	10.1	101	10.0	10.1	101	0	80-120	30
Bromodichloromethane	ND	10.0	9.74	97	10.0	9.47	95	3	75-120	30
Bromoform	ND	10.0	10.2	102	10.0	9.68	97	5	70-130	30
Carbon Disulfide	ND	10.0	9.38	94	10.0	6.76	68	32*	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	10.3	103	2	65-140	30
Chlorobenzene	ND	10.0	10.3	103	10.0	10.3	103	0	80-120	30
Chloroethane	ND	10.0	9.46	95	10.0	8.02	80	16	60-135	30
Chloroform	ND	10.0	10.0	100	10.0	10.2	102	2	65-135	30
Chloromethane	ND	10.0	10.5	105	10.0	7.71	77	30	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.1	101	10.0	9.55	95	6	70-125	30
Dibromochloromethane	ND	10.0	9.63	96	10.0	9.23	92	4	60-135	30
Ethylbenzene	ND	10.0	10.1	101	10.0	9.89	99	2	75-125	30
m/p-Xylenes	ND	20.0	20.3	101	20.0	20.0	100	1	75-130	30
Methylene Chloride	ND	10.0	9.01	90	10.0	9.29	93	3	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.81	98	10.0	9.49	95	3	65-125	30
o-Xylene	ND	10.0	10.2	102	10.0	9.97	100	3	80-120	30
Tetrachloroethene	ND	10.0	10.0	100	10.0	10.4	104	4	45-150	30
Toluene	ND	10.0	10.1	101	10.0	9.94	99	1	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.96	100	10.0	10.2	102	3	60-140	30
Trichloroethene	ND	10.0	10.1	101	10.0	10.2	102	1	70-125	30
Vinyl Chloride	ND	10.0	9.95	99	10.0	7.83	78	24	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.9	109	10.0	10.8	108	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.0	110	10.0	10.6	106	4	75-130	30
Dichlorodifluoromethane	ND	10.0	10.5	105	10.0	8.33	83	23	30-155	30
Isopropylbenzene	ND	10.0	11.0	110	10.0	11.1	111	0	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.67	97	10.0	9.25	92	70-120
4-Bromofluorobenzene	10.0	11.0	110	10.0	10.9	109	75-120
Toluene-d8	10.0	9.94	99	10.0	9.96	100	85-120
Dibromofluoromethane	10.0	9.82	98	10.0	9.68	97	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 01/05/11
Batch No. : 11A027	Date Extracted: 01/05/11 22:42
Sample ID: MBLK2W	Date Analyzed: 01/05/11 22:42
Lab Samp ID: V001A04B	Dilution Factor: 1
Lab File ID: RAV071	Matrix : WATER
Ext Btch ID: V001A04	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.25J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.85	10.00	98.5	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V001A04B	V001A04L	V001A04C		
LAB FILE ID:	RAV071	RAV068	RAV069		
DATE EXTRACTED:	01/05/1122:42	01/05/1121:06	01/05/1121:40	DATE COLLECTED:	NA
DATE ANALYZED:	01/05/1122:42	01/05/1121:06	01/05/1121:40	DATE RECEIVED:	01/05/11
PREP. BATCH:	V001A04	V001A04	V001A04		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.85	99	10.0	10.1	101	3	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.1	101	10.0	9.99	100	1	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.3	103	10.0	10.3	103	1	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	10.6	106	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.65	96	10.0	9.82	98	2	70-130	30
1,2-Dichloroethane	ND	10.0	10.1	101	10.0	9.95	99	2	70-130	30
2-Butanone	ND	50.0	48.4	97	50.0	51.5	103	6	30-150	30
2-Hexanone	ND	50.0	48.5	97	50.0	50.0	100	3	55-130	30
4-Methyl-2-Pentanone	ND	50.0	48.2	96	50.0	48.2	96	0	60-135	30
Benzene	ND	10.0	10.3	103	10.0	10.1	101	2	80-120	30
Bromodichloromethane	ND	10.0	10.2	102	10.0	9.96	100	2	75-120	30
Bromoform	ND	10.0	10.3	103	10.0	10.2	102	1	70-130	30
Carbon Disulfide	0.247J	10.0	8.43	84	10.0	8.71	87	3	35-160	30
Carbon Tetrachloride	ND	10.0	9.67	97	10.0	9.46	95	2	65-140	30
Chlorobenzene	ND	10.0	10.5	105	10.0	10.4	104	1	80-120	30
Chloroethane	ND	10.0	9.71	97	10.0	10.0	100	3	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	10.3	103	0	65-135	30
Chloromethane	ND	10.0	10.1	101	10.0	10.8	108	7	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.2	102	10.0	10.5	105	3	70-125	30
Dibromochloromethane	ND	10.0	10.1	101	10.0	9.99	100	1	60-135	30
Ethylbenzene	ND	10.0	10.3	103	10.0	10.3	103	0	75-125	30
m/p-Xylenes	ND	20.0	20.6	103	20.0	20.6	103	0	75-130	30
Methylene Chloride	ND	10.0	9.28	93	10.0	9.49	95	2	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.79	98	10.0	10.0	100	2	65-125	30
o-Xylene	ND	10.0	10.6	106	10.0	10.6	106	0	80-120	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.94	99	2	45-150	30
Toluene	ND	10.0	10.4	104	10.0	10.2	102	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.0	100	10.0	10.1	101	1	60-140	30
Trichloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	70-125	30
Vinyl Chloride	ND	10.0	9.57	96	10.0	9.83	98	3	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.9	109	10.0	10.9	109	0	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.0	110	10.0	10.9	109	1	75-130	30
Dichlorodifluoromethane	ND	10.0	8.11	81	10.0	8.42	84	4	30-155	30
Isopropylbenzene	ND	10.0	11.0	110	10.0	10.7	107	3	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.71	97	10.0	9.92	99	70-120
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.5	105	75-120
Toluene-d8	10.0	10.1	101	10.0	9.94	99	85-120
Dibromofluoromethane	10.0	9.74	97	10.0	9.87	99	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	01/06/11
Batch No.	: 11A027	Date Extracted:	01/06/11 18:44
Sample ID:	MBLK3W	Date Analyzed:	01/06/11 18:44
Lab Samp ID:	V001A05B	Dilution Factor:	1
Lab File ID:	RAV090	Matrix :	WATER
Ext Btch ID:	V001A05	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.2	10.00	102	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.97	10.00	99.7	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5D30B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	V001A05B	V001A05X	V001A05C		
LAB FILE ID:	RAV090	RAV088	RAV087		
DATE EXTRACTED:	01/06/1118:44	01/06/1117:39	01/06/1117:07	DATE COLLECTED:	NA
DATE ANALYZED:	01/06/1118:44	01/06/1117:39	01/06/1117:07	DATE RECEIVED:	01/06/11
PREP. BATCH:	V001A05	V001A05	V001A05		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	10.6	106	4	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.27	93	10.0	9.61	96	4	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.94	99	10.0	9.98	100	0	75-125	30
1,1-Dichloroethane	ND	10.0	10.4	104	10.0	10.9	109	4	70-135	30
1,1-Dichloroethene	ND	10.0	10.7	107	10.0	11.4	114	6	70-130	30
1,2-Dichloroethane	ND	10.0	9.81	98	10.0	10.0	100	2	70-130	30
2-Butanone	ND	50.0	47.4	95	50.0	47.9	96	1	30-150	30
2-Hexanone	ND	50.0	47.4	95	50.0	47.3	95	0	55-130	30
4-Methyl-2-Pentanone	ND	50.0	46.4	93	50.0	46.5	93	0	60-135	30
Benzene	ND	10.0	9.86	99	10.0	10.2	102	3	80-120	30
Bromodichloromethane	ND	10.0	9.45	94	10.0	9.64	96	2	75-120	30
Bromoform	ND	10.0	9.57	96	10.0	9.98	100	4	70-130	30
Carbon Disulfide	ND	10.0	8.89	89	10.0	10.7	107	19	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	10.4	104	3	65-140	30
Chlorobenzene	ND	10.0	10.0	100	10.0	10.4	104	4	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.2	112	7	60-135	30
Chloroform	ND	10.0	10.1	101	10.0	10.5	105	4	65-135	30
Chloromethane	ND	10.0	10.9	109	10.0	11.8	118	8	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.42	94	10.0	9.97	100	6	70-125	30
Dibromochloromethane	ND	10.0	9.46	95	10.0	9.74	97	3	60-135	30
Ethylbenzene	ND	10.0	9.82	98	10.0	10.1	101	3	75-125	30
m/p-Xylenes	ND	20.0	19.5	98	20.0	20.1	100	3	75-130	30
Methylene Chloride	ND	10.0	9.18	92	10.0	9.61	96	5	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.65	97	10.0	10.1	101	4	65-125	30
o-Xylene	ND	10.0	9.82	98	10.0	10.1	101	2	80-120	30
Tetrachloroethene	ND	10.0	10.3	103	10.0	10.7	107	4	45-150	30
Toluene	ND	10.0	9.79	98	10.0	10.0	100	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.94	99	10.0	10.5	105	5	60-140	30
Trichloroethene	ND	10.0	9.90	99	10.0	10.4	104	5	70-125	30
Vinyl Chloride	ND	10.0	11.0	110	10.0	11.6	116	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.2	102	10.0	10.5	105	3	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.87	99	10.0	10.4	104	5	75-130	30
Dichlorodifluoromethane	ND	10.0	11.1	111	10.0	11.6	116	4	30-155	30
Isopropylbenzene	ND	10.0	10.1	101	10.0	10.7	107	5	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.5	105	70-120
4-Bromofluorobenzene	10.0	10.6	106	10.0	10.6	106	75-120
Toluene-d8	10.0	10.5	105	10.0	10.5	105	85-120
Dibromofluoromethane	10.0	9.87	99	10.0	10.3	103	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	01/07/11
Batch No.	: 11A027	Date Extracted:	01/07/11 07:20
Sample ID	: MBLK4W	Date Analyzed:	01/07/11 07:20
Lab Samp ID	: V001A06B	Dilution Factor:	1
Lab File ID	: RAV113	Matrix	: WATER
Ext Btch ID	: V001A06	% Moisture	: NA
Calib. Ref.	: RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	NO	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.0	10.00	100	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.0	10.00	100	85-120
DIBROMOFLUOROMETHANE	9.98	10.00	99.8	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK4W				
LAB SAMP ID:	V001A06B	V001A06L	V001A06C		
LAB FILE ID:	RAV113	RAV110	RAV111		
DATE EXTRACTED:	01/07/1107:20	01/07/1105:41	01/07/1106:14	DATE COLLECTED:	NA
DATE ANALYZED:	01/07/1107:20	01/07/1105:41	01/07/1106:14	DATE RECEIVED:	01/07/11
PREP. BATCH:	V001A06	V001A06	V001A06		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.29	93	10.0	10.4	104	11	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	8.67	87	10.0	10.0	100	15	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.60	96	10.0	10.5	105	9	75-125	30
1,1-Dichloroethane	ND	10.0	10.3	103	10.0	11.3	113	9	70-135	30
1,1-Dichloroethene	ND	10.0	9.61	96	10.0	10.7	107	11	70-130	30
1,2-Dichloroethane	ND	10.0	9.72	97	10.0	10.7	107	10	70-130	30
2-Butanone	ND	50.0	46.7	93	50.0	53.2	106	13	30-150	30
2-Hexanone	ND	50.0	45.5	91	50.0	51.6	103	13	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.2	90	50.0	51.2	102	13	60-135	30
Benzene	ND	10.0	9.56	96	10.0	10.6	106	10	80-120	30
Bromodichloromethane	ND	10.0	9.28	93	10.0	10.2	102	9	75-120	30
Bromoform	ND	10.0	9.40	94	10.0	10.8	108	13	70-130	30
Carbon Disulfide	ND	10.0	8.70	87	10.0	10.2	102	16	35-160	30
Carbon Tetrachloride	ND	10.0	8.57	86	10.0	9.73	97	13	65-140	30
Chlorobenzene	ND	10.0	9.77	98	10.0	10.8	108	10	80-120	30
Chloroethane	ND	10.0	9.70	97	10.0	11.1	111	14	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	11.2	112	9	65-135	30
Chloromethane	ND	10.0	10.2	102	10.0	11.5	115	12	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.44	94	10.0	10.3	103	9	70-125	30
Dibromochloromethane	ND	10.0	9.27	93	10.0	10.2	102	9	60-135	30
Ethylbenzene	ND	10.0	9.29	93	10.0	10.2	102	9	75-125	30
m/p-Xylenes	ND	20.0	18.7	93	20.0	20.3	102	8	75-130	30
Methylene Chloride	ND	10.0	9.25	93	10.0	10.3	103	11	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.46	95	10.0	10.4	104	10	65-125	30
o-Xylene	ND	10.0	9.46	95	10.0	10.4	104	9	80-120	30
Tetrachloroethene	ND	10.0	9.10	91	10.0	10.0	100	10	45-150	30
Toluene	ND	10.0	9.38	94	10.0	10.3	103	10	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.67	97	10.0	10.7	107	10	60-140	30
Trichloroethene	ND	10.0	9.91	99	10.0	10.9	109	9	70-125	30
Vinyl Chloride	ND	10.0	9.33	93	10.0	10.8	108	15	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.73	97	10.0	11.0	110	12	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.35	94	10.0	10.8	108	14	75-130	30
Dichlorodifluoromethane	ND	10.0	7.91	79	10.0	8.84	88	11	30-155	30
Isopropylbenzene	ND	10.0	9.53	95	10.0	11.0	110	14	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	10.7	107	70-120
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.9	109	75-120
Toluene-d8	10.0	10.4	104	10.0	10.5	105	85-120
Dibromofluoromethane	10.0	10.1	101	10.0	10.3	103	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 01/11/11
Batch No. : 11A027	Date Extracted: 01/11/11 13:12
Sample ID: MBLK5W	Date Analyzed: 01/11/11 13:12
Lab Samp ID: V001A12B	Dilution Factor: 1
Lab File ID: RAV209	Matrix : WATER
Ext Btch ID: V001A12	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.20
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.20
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.50
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.80	10.00	98.0	70-120
4-BROMOFLUOROBENZENE	10.9	10.00	109	75-120
TOLUENE-D8	9.91	10.00	99.1	85-120
DIBROMOFLUOROMETHANE	9.73	10.00	97.3	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK5W				
LAB SAMP ID:	VO01A12B	VO01A12L	VO01A12C		
LAB FILE ID:	RAV209	RAV206	RAV207		
DATE EXTRACTED:	01/11/1113:12	01/11/1111:33	01/11/1112:05	DATE COLLECTED:	NA
DATE ANALYZED:	01/11/1113:12	01/11/1111:33	01/11/1112:05	DATE RECEIVED:	01/11/11
PREP. BATCH:	VO01A12	VO01A12	VO01A12		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.4	104	10.0	10.4	104	0	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.2	102	10.0	10.2	102	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.5	105	10.0	10.5	105	0	75-125	30
1,1-Dichloroethane	ND	10.0	10.5	105	10.0	10.8	108	3	70-135	30
1,1-Dichloroethene	ND	10.0	9.97	100	10.0	9.88	99	1	70-130	30
1,2-Dichloroethane	ND	10.0	10.2	102	10.0	10.4	104	2	70-130	30
2-Butanone	ND	50.0	50.3	101	50.0	50.7	101	1	30-150	30
2-Hexanone	ND	50.0	49.5	99	50.0	49.4	99	0	55-130	30
4-Methyl-2-Pentanone	ND	50.0	49.4	99	50.0	49.9	100	1	60-135	30
Benzene	ND	10.0	10.5	105	10.0	10.6	106	2	80-120	30
Bromodichloromethane	ND	10.0	10.2	102	10.0	10.4	104	2	75-120	30
Bromoform	ND	10.0	10.5	105	10.0	10.4	104	1	70-130	30
Carbon Disulfide	ND	10.0	9.66	97	10.0	10.2	102	5	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	9.88	99	2	65-140	30
Chlorobenzene	ND	10.0	10.8	108	10.0	10.7	107	0	80-120	30
Chloroethane	ND	10.0	10.1	101	10.0	10.2	102	1	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	10.4	104	1	65-135	30
Chloromethane	ND	10.0	10.7	107	10.0	10.5	105	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	10.4	104	10.0	10.5	105	0	70-125	30
Dibromochloromethane	ND	10.0	10.1	101	10.0	10.3	103	2	60-135	30
Ethylbenzene	ND	10.0	10.5	105	10.0	10.7	107	2	75-125	30
m/p-Xylenes	ND	20.0	21.0	105	20.0	21.1	105	0	75-130	30
Methylene Chloride	ND	10.0	9.38	94	10.0	9.45	95	1	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.54	95	10.0	9.75	98	2	65-125	30
o-Xylene	ND	10.0	10.7	107	10.0	10.9	109	1	80-120	30
Tetrachloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	45-150	30
Toluene	ND	10.0	10.6	106	10.0	10.6	106	0	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.1	101	10.0	10.3	103	2	60-140	30
Trichloroethene	ND	10.0	10.4	104	10.0	10.3	103	1	70-125	30
Vinyl Chloride	ND	10.0	10.5	105	10.0	10.2	102	3	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	11.1	111	10.0	10.9	109	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.1	111	10.0	11.0	110	1	75-130	30
Dichlorodifluoromethane	ND	10.0	10.3	103	10.0	10.2	102	1	30-155	30
Isopropylbenzene	ND	10.0	11.2	112	10.0	11.0	110	1	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.49	95	10.0	9.92	99	70-120
4-Bromofluorobenzene	10.0	10.5	105	10.0	10.6	106	75-120
Toluene-d8	10.0	9.66	97	10.0	9.93	99	85-120
Dibromofluoromethane	10.0	9.61	96	10.0	9.92	99	85-115

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11A027
METHOD: METHOD 5D30B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	SSI-GW-008				
LAB SAMP ID:	A027-D8N	A027-08G	A027-08H		
LAB FILE ID:	RAV210	RAV211	RAV212		
DATE EXTRACTED:	01/11/1113:43	01/11/1114:16	01/11/1114:49	DATE COLLECTED:	01/03/11
DATE ANALYZED:	01/11/1113:43	01/11/1114:16	01/11/1114:49	DATE RECEIVED:	01/05/11
PREP. BATCH:	V001A12	V001A12	V001A12		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.8	108	10.0	10.6	106	2	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	10.3	103	10.0	10.3	103	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	10.4	104	10.0	11.0	110	5	75-125	30
1,1-Dichloroethane	ND	10.0	10.8	108	10.0	10.7	107	1	70-135	30
1,1-Dichloroethene	ND	10.0	10.3	103	10.0	10.3	103	0	70-130	30
1,2-Dichloroethane	ND	10.0	10.2	102	10.0	10.6	106	3	70-130	30
2-Butanone	ND	50.0	50.4	101	50.0	53.1	106	5	30-150	30
2-Hexanone	ND	50.0	48.8	98	50.0	52.1	104	7	55-130	30
4-Methyl-2-Pentanone	ND	50.0	46.9	94	50.0	49.4	99	5	60-135	30
Benzene	ND	10.0	10.6	106	10.0	10.6	106	0	80-120	30
Bromodichloromethane	ND	10.0	10.4	104	10.0	10.6	106	2	75-120	30
Bromoform	ND	10.0	10.4	104	10.0	10.5	105	1	70-130	30
Carbon Disulfide	ND	10.0	8.59	86	10.0	9.95	99	15	35-160	30
Carbon Tetrachloride	ND	10.0	10.5	105	10.0	10.4	104	1	65-140	30
Chlorobenzene	ND	10.0	10.9	109	10.0	10.9	109	1	80-120	30
Chloroethane	ND	10.0	11.6	116	10.0	10.9	109	6	60-135	30
Chloroform	ND	10.0	10.5	105	10.0	10.6	106	0	65-135	30
Chloromethane	ND	10.0	11.5	115	10.0	10.9	109	5	40-125	30
cis-1,2-Dichloroethene	0.920J	10.0	11.3	104	10.0	11.6	107	2	70-125	30
Dibromochloromethane	ND	10.0	10.2	102	10.0	10.5	105	3	60-135	30
Ethylbenzene	ND	10.0	10.8	108	10.0	10.7	107	1	75-125	30
m/p-Xylenes	ND	20.0	21.7	109	20.0	21.6	108	1	75-130	30
Methylene Chloride	ND	10.0	9.64	96	10.0	9.72	97	1	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.52	95	10.0	9.93	99	4	65-125	30
o-Xylene	ND	10.0	10.9	109	10.0	11.0	110	1	80-120	30
Tetrachloroethene	ND	10.0	10.8	108	10.0	10.7	107	1	45-150	30
Toluene	ND	10.0	10.8	108	10.0	10.8	108	1	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.4	104	10.0	10.5	105	1	60-140	30
Trichloroethene	3.58	10.0	14.1	105	10.0	14.4	108	2	70-125	30
Vinyl Chloride	ND	10.0	11.2	112	10.0	10.6	106	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	11.1	111	10.0	10.9	109	2	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	11.3	113	10.0	11.0	110	3	75-130	30
Dichlorodifluoromethane	ND	10.0	11.7	117	10.0	11.0	110	6	30-155	30
Isopropylbenzene	ND	10.0	11.3	113	10.0	11.0	110	2	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.51	95	10.0	9.64	96	70-120
4-Bromofluorobenzene	10.0	10.7	107	10.0	10.3	103	75-120
Toluene-d8	10.0	9.94	99	10.0	9.82	98	85-120
Dibromofluoromethane	10.0	9.72	97	10.0	9.83	98	85-115

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV048.D
Acq On : 5 Jan 2011 10:22 am
Sample : VO01A03B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 5 14:43 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1446963	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.98	117	1271014	10.00	ug/l	-0.04
72) 1,2-DICHLOROBENZENE-D4	19.09	152	433045	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	427564	9.86	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.60%	
40) 1,2-Dichloroethane-d4	8.20	65	338684	9.99	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.90%	
55) Toluene-d8	11.29	98	1649441	9.96	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.60%	
76) 4-Bromofluorobenzene	16.29	95	524777	10.69	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	106.90%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV048.D VO01L11.M Thu Jan 06 09:03:23 2011

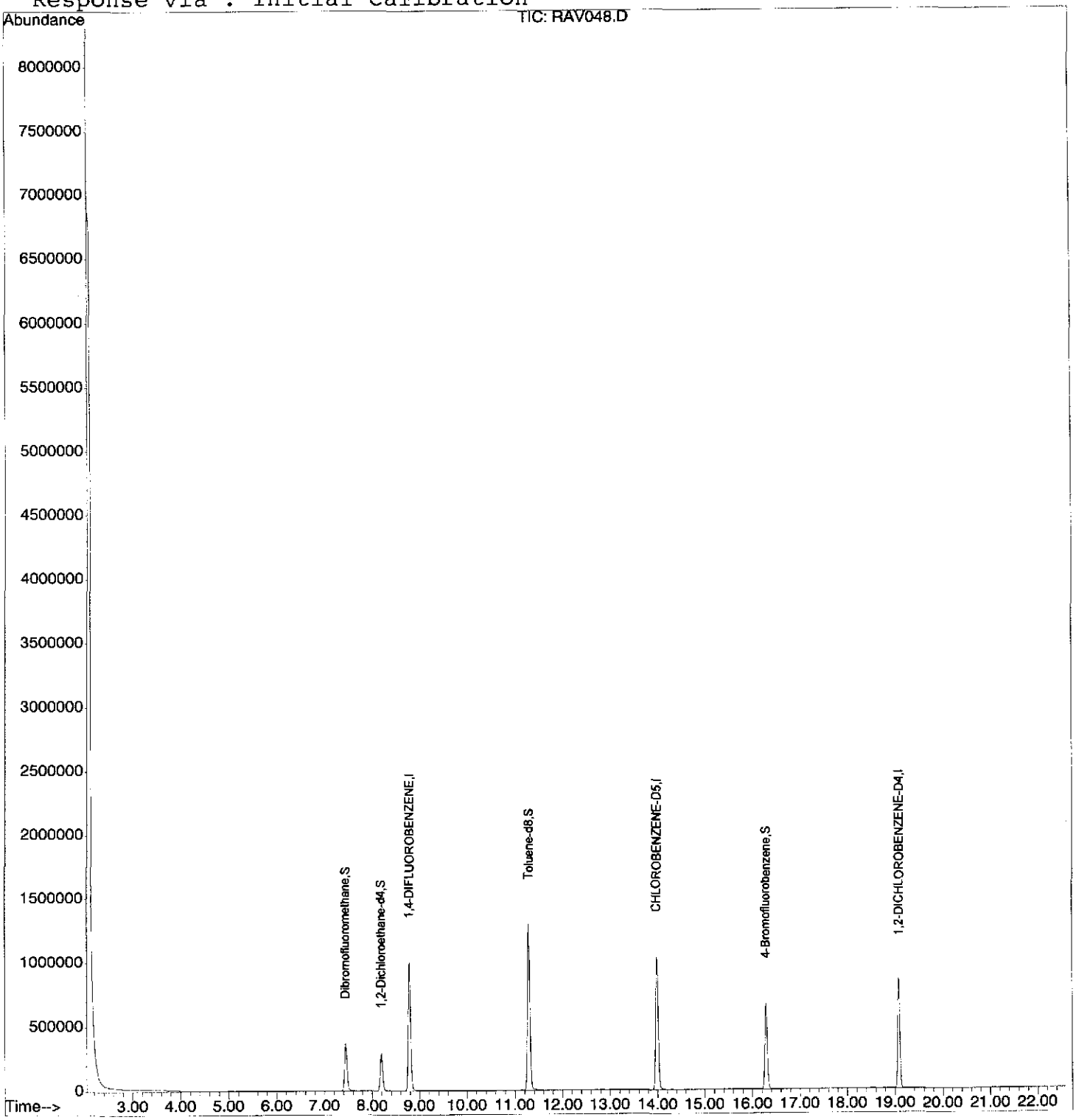
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV048.D
Acq On : 5 Jan 2011 10:22 am
Sample : VO01A03B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 5 14:43 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV045.D
Acq On : 5 Jan 2011 8:44 am
Sample : VO01A03L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 9:07 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1476919	10.00 ug/l	-0.02
41) CHLOROBENZENE-D5	13.99	117	1293526	10.00 ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	428743	10.00 ug/l	-0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.45	111	434697	9.82 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 98.20%	
40) 1,2-Dichloroethane-d4	8.19	65	334714	9.67 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 96.70%	
55) Toluene-d8	11.30	98	1674674	9.94 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 99.40%	
76) 4-Bromofluorobenzene	16.28	95	532605	10.95 ug/l	-0.03
Spiked Amount 10.000			Recovery	= 109.50%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.21	85	271722	10.52 ug/l	99
4) Chloromethane	2.48	50	527861	10.45 ug/l	99
5) Vinyl chloride	2.64	62	429110	9.95 ug/l	100
6) Bromomethane	3.16	94	330752	10.31 ug/l	100
7) Chloroethane	3.25	64	316748	9.46 ug/l	99
8) Dichlorofluoromethane	3.34	67	840226	9.71 ug/l	100
9) Trichlorofluoromethane	3.63	101	406821	8.28 ug/l	99
11) Acrolein	4.12	56	96998	40.76 ug/l	86
12) 1,1,2-Trichloro-1,2,2-trif	4.18	151	237832	10.11 ug/l	99
13) Acetone	4.21	43	269154	46.20 ug/l	97
14) 1,1-Dichloroethene	4.39	61	663473	9.76 ug/l	99
15) tert-Butyl alcohol	4.54	59	85100	39.28 ug/l	91
17) Iodomethane	4.80	142	639398	8.93 ug/l	99
19) Methylene chloride	5.02	49	637409	9.01 ug/l	99
20) Carbon disulfide	5.07	76	1649451	9.38 ug/l	100
21) Acrylonitrile	5.20	53	369522	47.92 ug/l	100
22) tert-Butyl methyl ether (M	5.26	73	658961	9.81 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	758358	9.96 ug/l	99
24) Isopropyl ether (DIPE)	5.88	45	1870480	10.01 ug/l	99
25) Vinyl acetate	6.03	43	533645	7.78 ug/l	97
26) 1,1-Dichloroethane	6.03	63	958290	10.27 ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	1085768	9.76 ug/l	100
29) 2-Butanone	6.64	43	517357	47.42 ug/l	99
30) 2,2-Dichloropropane	6.84	77	593049	10.55 ug/l	100
31) cis-1,2-Dichloroethene	6.90	96	554858	10.14 ug/l	99
32) Chloroform	7.12	83	804771	10.00 ug/l	100
33) Bromochloromethane	7.36	49	400482	9.91 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV045.D Vial: 4
Acq On : 5 Jan 2011 8:44 am Operator: MW
Sample : VO01A03L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 9:07 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	599048	10.26 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	157663	9.56 ug/l	100
42) 1,1-Dichloropropene	7.95	110	245660	9.89 ug/l	99
43) Carbon tetrachloride	8.12	119	494372	10.10 ug/l	96
44) 1,2-Dichloroethane	8.34	62	420712	9.70 ug/l	99
45) Benzene	8.37	78	2043595	10.15 ug/l	99
46) Trichloroethene	9.31	130	541504	10.14 ug/l	99
48) 1,2-Dichloropropane	9.60	63	557458	10.03 ug/l	96
49) 1,4-Dioxane	10.04	88	28091	159.99 ug/l	87
50) Bromodichloromethane	9.98	83	578973	9.74 ug/l	99
51) Dibromomethane	10.07	93	198249	9.32 ug/l	98
52) 2-Chloroethyl vinyl ether	10.47	63	90623	6.58 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1281133	44.98 ug/l	98
54) cis-1,3-Dichloropropene	10.87	75	749308	9.97 ug/l	99
56) Toluene	11.43	91	2068559	10.05 ug/l	100
57) Ethyl methacrylate	11.71	69	378535	9.44 ug/l	99
58) trans-1,3-Dichloropropene	11.73	75	521244	9.85 ug/l	99
59) 2-Hexanone	12.02	43	811132	45.74 ug/l	100
60) 1,1,2-Trichloroethane	12.01	97	280032	9.85 ug/l	99
61) 1,3-Dichloropropane	12.45	76	537939	9.64 ug/l	99
62) Tetrachloroethene	12.57	164	403261	10.03 ug/l	98
63) Dibromochloromethane	12.92	129	337008	9.63 ug/l	99
64) 1,2-Dibromoethane	13.29	107	259604	9.30 ug/l	99
65) 1-Chlorohexane	13.58	91	863280	10.25 ug/l	100
66) Chlorobenzene	14.06	112	1267495	10.29 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	395491	9.97 ug/l	98
68) Ethylbenzene	14.15	91	2370753	10.11 ug/l	99
69) m-Xylene & p-Xylene	14.30	91	3495370	20.28 ug/l	99
70) o-Xylene	15.11	91	1722321	10.24 ug/l	99
71) Styrene	15.19	104	1309670	10.33 ug/l	100
73) Isopropylbenzene	15.81	105	2080040	11.05 ug/l	99
74) Bromoform	15.84	173	161883	10.21 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.14	83	303414	9.88 ug/l	100
77) 1,2,3-Trichloropropane	16.42	110	71129	9.21 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.55	53	83503	10.54 ug/l	99
79) n-Propylbenzene	16.58	91	2783565	11.13 ug/l	100
80) Bromobenzene	16.67	156	421778	10.71 ug/l	99
81) 1,3,5-Trimethylbenzene	16.89	105	1634989	11.03 ug/l	98
82) 2-Chlorotoluene	16.93	91	1705533	11.21 ug/l	96
83) 4-Chlorotoluene	17.02	91	1396701	10.66 ug/l	95
84) tert-Butylbenzene	17.59	134	379832	11.28 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV045.D Vial: 4
Acq On : 5 Jan 2011 8:44 am Operator: MW
Sample : VO01A03L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 9:07 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

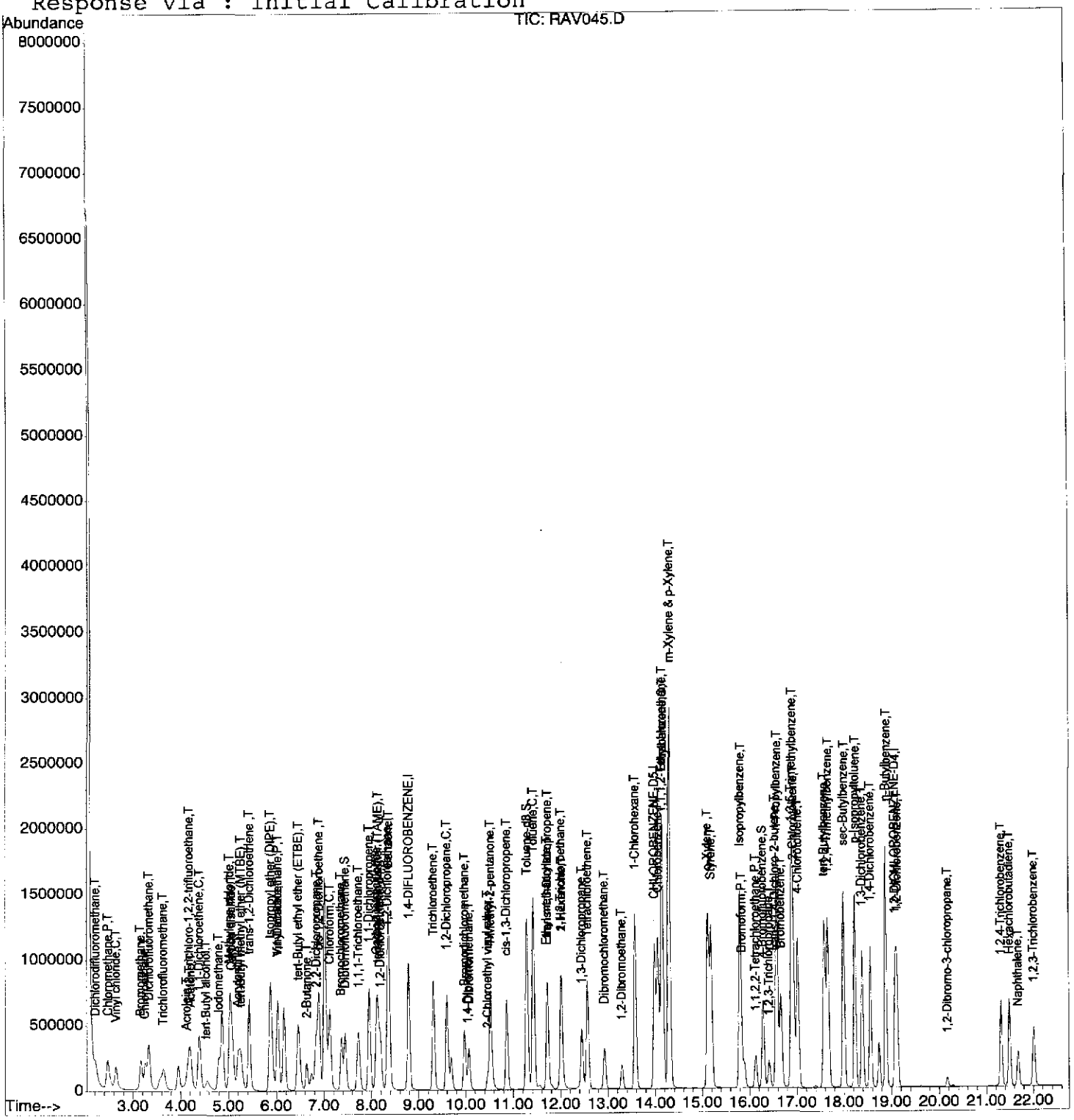
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.66	105	1603033	10.95 ug/l	98
86) sec-Butylbenzene	18.00	105	2279220	11.04 ug/l	99
87) p-Isopropyltoluene	18.24	119	1736364	11.02 ug/l	99
88) 1,3-Dichlorobenzene	18.38	146	846022	10.64 ug/l	99
89) 1,4-Dichlorobenzene	18.56	146	806586	10.56 ug/l	99
90) n-Butylbenzene	18.89	91	1818164	11.01 ug/l	100
91) 1,2-Dichlorobenzene	19.12	146	676962	10.48 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	35973	9.40 ug/l	98
93) 1,2,4-Trichlorobenzene	21.31	180	401570	10.22 ug/l	100
94) Hexachlorobutadiene	21.49	225	266299	10.62 ug/l	98
95) Naphthalene	21.67	128	435764	9.58 ug/l	100
96) 1,2,3-Trichlorobenzene	22.01	180	307886	9.80 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV045.D Vial: 4
Acq On : 5 Jan 2011 8:44 am Operator: MW
Sample : VO01A03L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 9:07 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV046.D
Acq On : 5 Jan 2011 9:17 am
Sample : VO01A03C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 9:40 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1438062	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.98	117	1235880	10.00	ug/l	-0.04
72) 1,2-DICHLOROBENZENE-D4	19.09	152	418049	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	416960	9.68	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	96.80%	
40) 1,2-Dichloroethane-d4	8.20	65	311650	9.25	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	92.50%	
55) Toluene-d8	11.29	98	1602833	9.96	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.60%	
76) 4-Bromofluorobenzene	16.29	95	515413	10.87	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	108.70%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	209616	8.33	ug/l	98
4) Chloromethane	2.47	50	379228	7.71	ug/l	100
5) Vinyl chloride	2.63	62	328721	7.83	ug/l	99
6) Bromomethane	3.17	94	263583	8.44	ug/l	98
7) Chloroethane	3.25	64	261500	8.02	ug/l	97
8) Dichlorofluoromethane	3.33	67	766840	9.10	ug/l	100
9) Trichlorofluoromethane	3.62	101	349201	7.30	ug/l	100
11) Acrolein	4.13	56	94548	40.80	ug/l	87
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	274230	11.97	ug/l	99
13) Acetone	4.22	43	255353	45.01	ug/l	95
14) 1,1-Dichloroethene	4.38	61	726943	10.98	ug/l	100
15) tert-Butyl alcohol	4.53	59	79766	37.82	ug/l	92
17) Iodomethane	4.79	142	787561	11.29	ug/l	100
19) Methylene chloride	5.03	49	639932	9.29	ug/l	99
20) Carbon disulfide	5.06	76	1150804	6.76	ug/l	99
21) Acrylonitrile	5.19	53	347113	46.23	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	620473	9.49	ug/l	100
23) trans-1,2-Dichloroethene	5.43	61	758507	10.23	ug/l	99
24) Isopropyl ether (DIPE)	5.87	45	1755098	9.65	ug/l	100
25) Vinyl acetate	6.02	43	326173	4.88	ug/l	100
26) 1,1-Dichloroethane	6.02	63	959044	10.56	ug/l	99
28) tert-Butyl ethyl ether (ET	6.45	59	1024434	9.46	ug/l	100
29) 2-Butanone	6.63	43	493282	46.44	ug/l	98
30) 2,2-Dichloropropane	6.83	77	567584	10.37	ug/l	100
31) cis-1,2-Dichloroethene	6.89	96	508574	9.55	ug/l	98
32) Chloroform	7.12	83	803257	10.25	ug/l	100
33) Bromochloromethane	7.37	49	379151	9.64	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV046.D Vial: 5
Acq On : 5 Jan 2011 9:17 am Operator: MW
Sample : VO01A03C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 9:40 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.72	97	584063	10.27 ug/l	99
39) tert-Amyl methyl ether (TA	8.14	87	146404	9.12 ug/l	98
42) 1,1-Dichloropropene	7.96	110	242264	10.21 ug/l	99
43) Carbon tetrachloride	8.11	119	480534	10.28 ug/l	98
44) 1,2-Dichloroethane	8.33	62	397931	9.61 ug/l	100
45) Benzene	8.36	78	1950524	10.14 ug/l	99
46) Trichloroethene	9.31	130	522242	10.24 ug/l	99
48) 1,2-Dichloropropane	9.59	63	538362	10.14 ug/l	98
49) 1,4-Dioxane	10.03	88	26973	160.79 ug/l #	65
50) Bromodichloromethane	9.97	83	538268	9.47 ug/l	98
51) Dibromomethane	10.06	93	181524	8.93 ug/l	99
52) 2-Chloroethyl vinyl ether	10.46	63	77769	5.91 ug/l	98
53) 4-Methyl-2-pentanone	10.52	43	1201130	44.14 ug/l	98
54) cis-1,3-Dichloropropene	10.86	75	720198	10.03 ug/l	99
56) Toluene	11.42	91	1954492	9.94 ug/l	100
57) Ethyl methacrylate	11.70	69	347294	9.07 ug/l	99
58) trans-1,3-Dichloropropene	11.72	75	496737	9.82 ug/l	96
59) 2-Hexanone	12.01	43	763084	45.04 ug/l	100
60) 1,1,2-Trichloroethane	12.00	97	257747	9.49 ug/l	99
61) 1,3-Dichloropropane	12.44	76	494384	9.27 ug/l	100
62) Tetrachloroethene	12.56	164	399551	10.41 ug/l	99
63) Dibromochloromethane	12.93	129	308764	9.23 ug/l	99
64) 1,2-Dibromoethane	13.29	107	232068	8.70 ug/l	99
65) 1-Chlorohexane	13.57	91	836652	10.40 ug/l	100
66) Chlorobenzene	14.06	112	1213955	10.32 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.13	131	365109	9.64 ug/l	98
68) Ethylbenzene	14.14	91	2217176	9.89 ug/l	100
69) m-Xylene & p-Xylene	14.29	91	3290831	19.99 ug/l	100
70) o-Xylene	15.12	91	1602043	9.97 ug/l	100
71) Styrene	15.18	104	1249424	10.31 ug/l	99
73) Isopropylbenzene	15.80	105	2033466	11.07 ug/l	99
74) Bromoform	15.83	173	149706	9.68 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.13	83	274069	9.16 ug/l	100
77) 1,2,3-Trichloropropane	16.42	110	64831	8.61 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.54	53	71673	9.27 ug/l	100
79) n-Propylbenzene	16.57	91	2627357	10.78 ug/l	100
80) Bromobenzene	16.66	156	389252	10.14 ug/l	100
81) 1,3,5-Trimethylbenzene	16.88	105	1534855	10.62 ug/l	99
82) 2-Chlorotoluene	16.93	91	1566238	10.56 ug/l	96
83) 4-Chlorotoluene	17.01	91	1334409	10.45 ug/l	94
84) tert-Butylbenzene	17.59	134	353671	10.78 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV046.D
Acq On : 5 Jan 2011 9:17 am
Sample : VO01A03C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 9:40 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

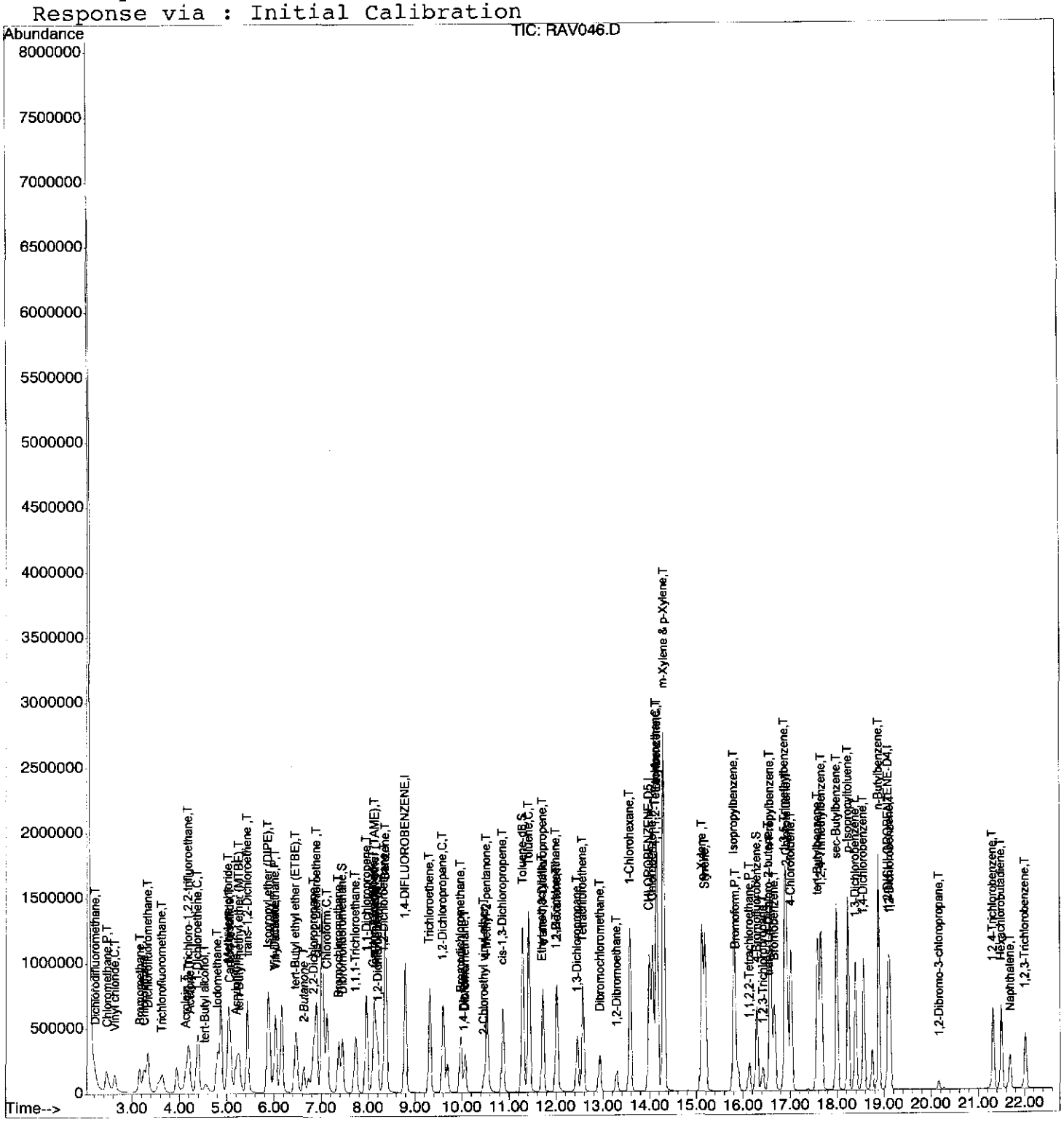
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1536333	10.76 ug/l	98
86) sec-Butylbenzene	17.99	105	2153324	10.70 ug/l	99
87) p-Isopropyltoluene	18.23	119	1655999	10.78 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	805455	10.39 ug/l	99
89) 1,4-Dichlorobenzene	18.55	146	773471	10.38 ug/l	99
90) n-Butylbenzene	18.88	91	1736234	10.78 ug/l	100
91) 1,2-Dichlorobenzene	19.12	146	649548	10.31 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.17	157	32041	8.58 ug/l	96
93) 1,2,4-Trichlorobenzene	21.31	180	402243	10.50 ug/l	98
94) Hexachlorobutadiene	21.48	225	259079	10.59 ug/l	98
95) Naphthalene	21.68	128	417599	9.42 ug/l	100
96) 1,2,3-Trichlorobenzene	22.00	180	293963	9.60 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV046.D Vial: 5
Acq On : 5 Jan 2011 9:17 am Operator: MW
Sample : VO01A03C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 9:40 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV071.D
Acq On : 5 Jan 2011 10:42 pm
Sample : VO01A04B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 6 6:35 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1438682	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1290828	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	453449	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	429946	9.97	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.70%	
40) 1,2-Dichloroethane-d4	8.20	65	340854	10.11	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	101.10%	
55) Toluene-d8	11.29	98	1655933	9.85	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.50%	
76) 4-Bromofluorobenzene	16.29	95	542091	10.54	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	105.40%	
Target Compounds						Qvalue
20) Carbon disulfide	5.07	76	16879	0.25	ug/l	85

(#) = qualifier out of range (m) = manual integration

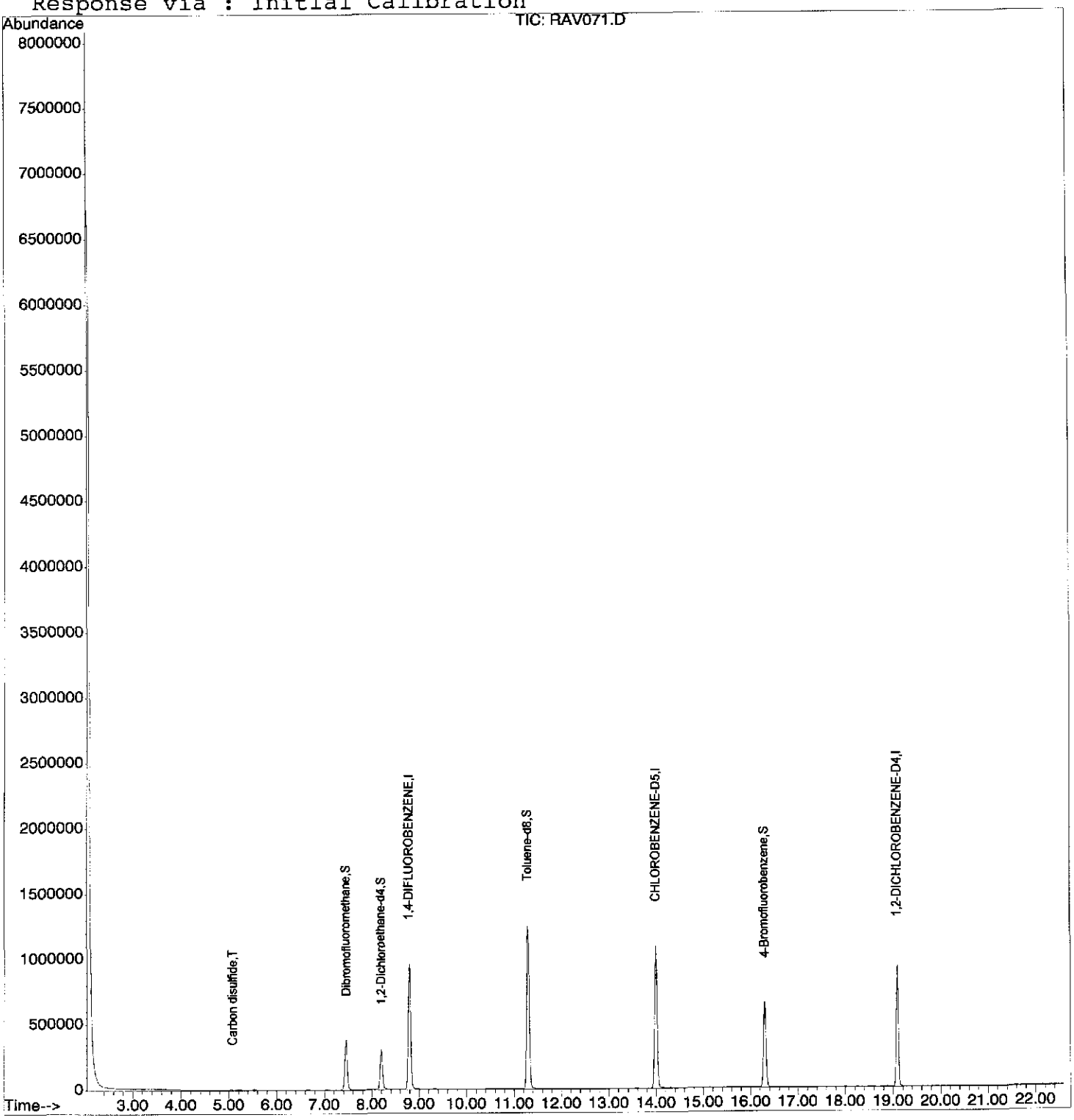
Quantitation Report

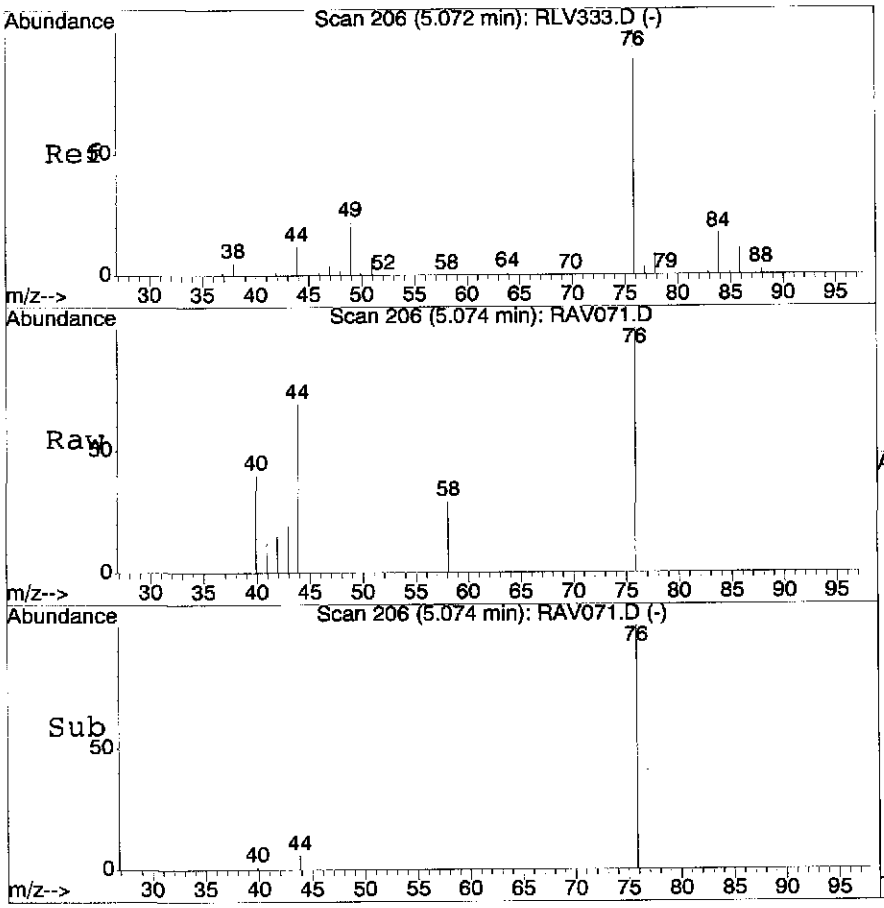
Data File : D:\HPCHEM\1\DATA\11A05\RAV071.D
Acq On : 5 Jan 2011 10:42 pm
Sample : VO01A04B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 6 6:35 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

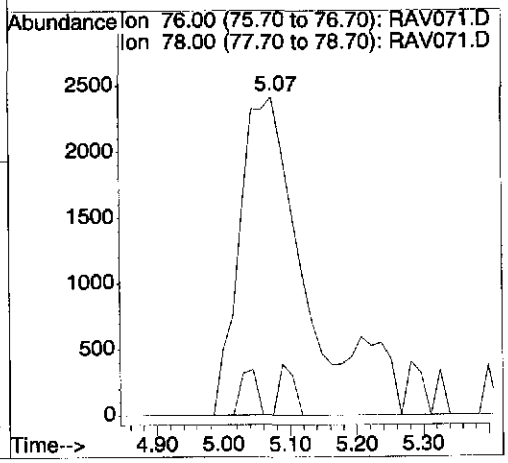




#20
Carbon disulfide
Concen: 0.25 ug/l
RT: 5.07 min Scan# 206
Delta R.T. 0.00 min
Lab File: RAV071.D
Acq: 5 Jan 2011 10:42 pm

Tgt Ion: 76 Resp: 16879

Ion	Ratio	Lower	Upper
76	100		
78	3.6	0.0	38.9



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV068.D
Acq On : 5 Jan 2011 9:06 pm
Sample : VO01A04L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 21:29 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1423696	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1230939	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	426370	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	415513	9.74	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.40%	
40) 1,2-Dichloroethane-d4	8.20	65	323932	9.71	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.10%	
55) Toluene-d8	11.30	98	1615082	10.07	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.70%	
76) 4-Bromofluorobenzene	16.30	95	515162	10.65	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.50%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	201968	8.11	ug/l	97
4) Chloromethane	2.48	50	491339	10.09	ug/l	100
5) Vinyl chloride	2.65	62	397815	9.57	ug/l	99
6) Bromomethane	3.17	94	319792	10.34	ug/l	99
7) Chloroethane	3.25	64	313335	9.71	ug/l	99
8) Dichlorofluoromethane	3.33	67	807981	9.69	ug/l	100
9) Trichlorofluoromethane	3.64	101	331855	7.01	ug/l	99
11) Acrolein	4.13	56	90551	39.47	ug/l #	62
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	181550	8.01	ug/l	97
13) Acetone	4.22	43	271060	48.26	ug/l	99
14) 1,1-Dichloroethene	4.39	61	632260	9.65	ug/l	99
15) tert-Butyl alcohol	4.53	59	74637	35.74	ug/l	83
17) Iodomethane	4.81	142	632919	9.17	ug/l	99
19) Methylene chloride	5.03	49	632813	9.28	ug/l	99
20) Carbon disulfide	5.07	76	1426228	8.43	ug/l	99
21) Acrylonitrile	5.21	53	365275	49.14	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	633580	9.79	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	735355	10.02	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1848286	10.26	ug/l	99
25) Vinyl acetate	6.04	43	484766	7.33	ug/l	97
26) 1,1-Dichloroethane	6.04	63	929579	10.34	ug/l	100
28) tert-Butyl ethyl ether (ET	6.46	59	1065655	9.94	ug/l	99
29) 2-Butanone	6.64	43	509222	48.42	ug/l	97
30) 2,2-Dichloropropane	6.85	77	536465	9.90	ug/l	100
31) cis-1,2-Dichloroethene	6.91	96	537870	10.20	ug/l	99
32) Chloroform	7.13	83	794657	10.24	ug/l	100
33) Bromochloromethane	7.37	49	394224	10.12	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV068.D
Acq On : 5 Jan 2011 9:06 pm
Sample : VO01A04L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 21:29 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	554377	9.85 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	154743	9.73 ug/l	98
42) 1,1-Dichloropropene	7.96	110	231366	9.79 ug/l	99
43) Carbon tetrachloride	8.12	119	450013	9.67 ug/l	99
44) 1,2-Dichloroethane	8.34	62	417052	10.11 ug/l	99
45) Benzene	8.37	78	1980246	10.33 ug/l	99
46) Trichloroethene	9.32	130	524435	10.32 ug/l	99
48) 1,2-Dichloropropane	9.60	63	553161	10.46 ug/l	99
49) 1,4-Dioxane	10.05	88	28592	171.13 ug/l	98
50) Bromodichloromethane	9.99	83	576880	10.19 ug/l	98
51) Dibromomethane	10.08	93	193964	9.58 ug/l	100
52) 2-Chloroethyl vinyl ether	10.47	63	91541	6.99 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1307249	48.23 ug/l	99
54) cis-1,3-Dichloropropene	10.87	75	731534	10.23 ug/l	100
56) Toluene	11.44	91	2033020	10.38 ug/l	100
57) Ethyl methacrylate	11.72	69	378106	9.91 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	513689	10.20 ug/l	98
59) 2-Hexanone	12.03	43	819083	48.54 ug/l	99
60) 1,1,2-Trichloroethane	12.01	97	277607	10.27 ug/l	99
61) 1,3-Dichloropropane	12.46	76	538975	10.15 ug/l	99
62) Tetrachloroethene	12.58	164	387319	10.13 ug/l	99
63) Dibromochloromethane	12.93	129	335444	10.07 ug/l	99
64) 1,2-Dibromoethane	13.30	107	257087	9.68 ug/l	100
65) 1-Chlorohexane	13.58	91	793004	9.89 ug/l	100
66) Chlorobenzene	14.07	112	1229547	10.49 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	384392	10.19 ug/l	99
68) Ethylbenzene	14.16	91	2298605	10.30 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	3386094	20.65 ug/l	100
70) o-Xylene	15.14	91	1694556	10.58 ug/l	100
71) Styrene	15.19	104	1296720	10.75 ug/l	100
73) Isopropylbenzene	15.82	105	2053689	10.97 ug/l	100
74) Bromoform	15.85	173	161728	10.25 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	307714	10.08 ug/l	100
77) 1,2,3-Trichloropropane	16.42	110	71628	9.32 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.56	53	79692	10.11 ug/l	100
79) n-Propylbenzene	16.59	91	2676640	10.76 ug/l	100
80) Bromobenzene	16.67	156	408700	10.44 ug/l	99
81) 1,3,5-Trimethylbenzene	16.90	105	1624647	11.02 ug/l	99
82) 2-Chlorotoluene	16.94	91	1675859	11.07 ug/l	97
83) 4-Chlorotoluene	17.03	91	1391403	10.68 ug/l	94
84) tert-Butylbenzene	17.61	134	365915	10.93 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV068.D
Acq On : 5 Jan 2011 9:06 pm
Sample : VO01A04L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 21:29 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1585613	10.89 ug/l	99
86) sec-Butylbenzene	18.01	105	2207943	10.76 ug/l	100
87) p-Isopropyltoluene	18.24	119	1678867	10.72 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	851380	10.77 ug/l	100
89) 1,4-Dichlorobenzene	18.57	146	808578	10.64 ug/l	99
90) n-Butylbenzene	18.89	91	1726546	10.51 ug/l	100
91) 1,2-Dichlorobenzene	19.13	146	686724	10.69 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.18	157	37110	9.75 ug/l	99
93) 1,2,4-Trichlorobenzene	21.32	180	413084	10.57 ug/l	99
94) Hexachlorobutadiene	21.50	225	259369	10.40 ug/l	98
95) Naphthalene	21.68	128	475497	10.51 ug/l	99
96) 1,2,3-Trichlorobenzene	22.02	180	322022	10.31 ug/l	99

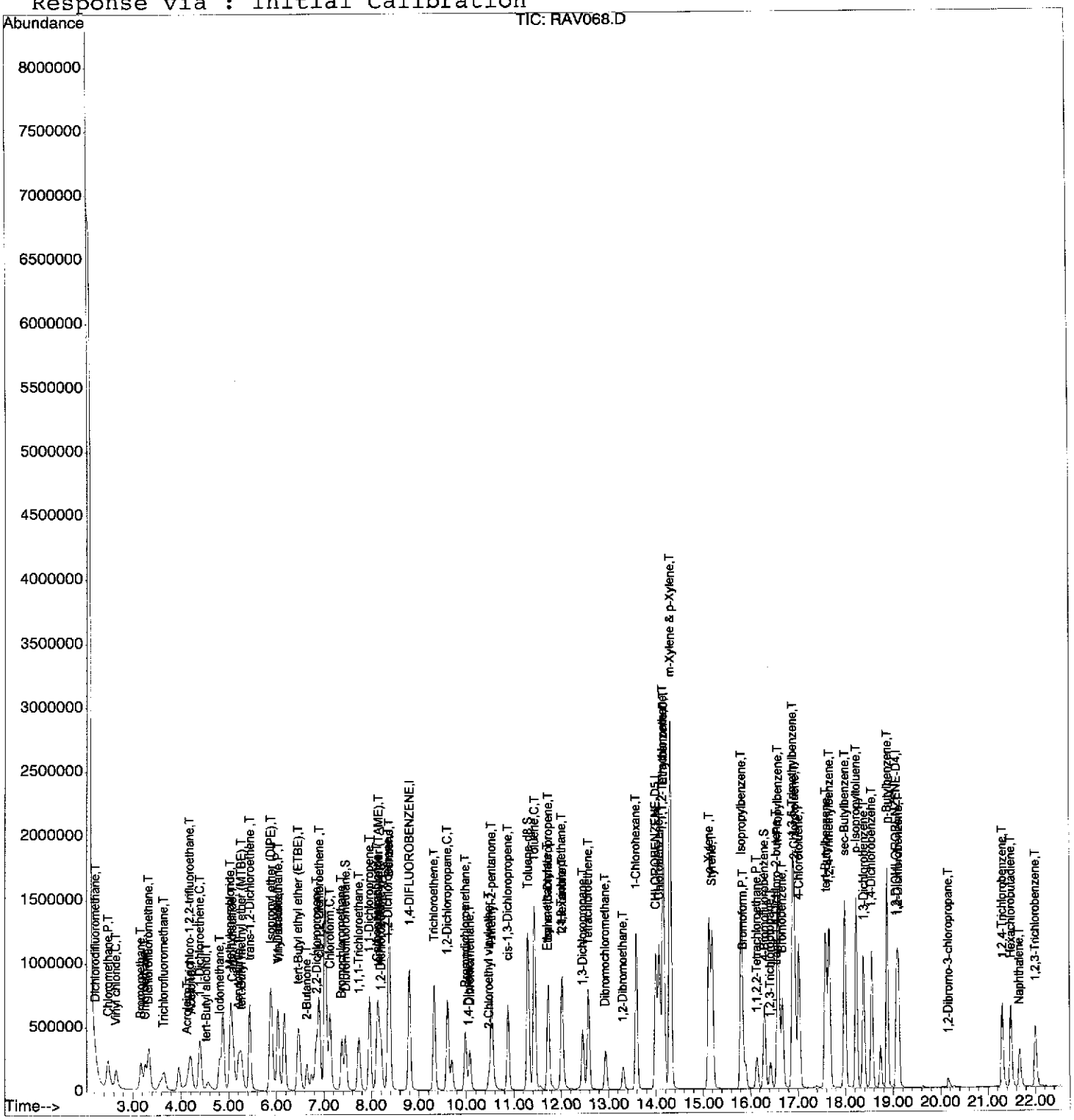
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV068.D
Acq On : 5 Jan 2011 9:06 pm
Sample : VO01A04L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 21:29 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV069.D
Acq On : 5 Jan 2011 9:40 pm
Sample : VO01A04C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 22:02 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1388330	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	13.99	117	1234066	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	431824	10.00	ug/l	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	410705	9.87	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.70%	
40) 1,2-Dichloroethane-d4	8.19	65	322677	9.92	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	99.20%	
55) Toluene-d8	11.30	98	1597409	9.94	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.40%	
76) 4-Bromofluorobenzene	16.30	95	515091	10.52	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.20%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	204578	8.42	ug/l	99
4) Chloromethane	2.47	50	513536	10.82	ug/l	100
5) Vinyl chloride	2.65	62	398314	9.83	ug/l	100
6) Bromomethane	3.16	94	334148	11.08	ug/l	100
7) Chloroethane	3.25	64	316170	10.05	ug/l	98
8) Dichlorofluoromethane	3.33	67	815415	10.03	ug/l	100
9) Trichlorofluoromethane	3.64	101	337068	7.30	ug/l	100
11) Acrolein	4.12	56	90844	40.61	ug/l #	57
12) 1,1,2-Trichloro-1,2,2-trif	4.18	151	176381	7.98	ug/l	96
13) Acetone	4.21	43	265398	48.46	ug/l	98
14) 1,1-Dichloroethene	4.39	61	627727	9.82	ug/l	99
15) tert-Butyl alcohol	4.52	59	87761	43.10	ug/l	97
17) Iodomethane	4.81	142	628970	9.34	ug/l	99
19) Methylene chloride	5.03	49	630976	9.49	ug/l	99
20) Carbon disulfide	5.07	76	1439445	8.71	ug/l	99
21) Acrylonitrile	5.21	53	369238	50.94	ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	633192	10.03	ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	720704	10.07	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1827253	10.40	ug/l	99
25) Vinyl acetate	6.03	43	494121	7.66	ug/l	98
26) 1,1-Dichloroethane	6.03	63	932366	10.63	ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	1058647	10.12	ug/l	100
29) 2-Butanone	6.64	43	528303	51.52	ug/l	99
30) 2,2-Dichloropropane	6.85	77	530508	10.04	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	538447	10.47	ug/l	99
32) Chloroform	7.13	83	776971	10.27	ug/l	100
33) Bromochloromethane	7.37	49	390331	10.28	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV069.D
Acq On : 5 Jan 2011 9:40 pm
Sample : VO01A04C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 22:02 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	554568	10.11 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	158053	10.19 ug/l	99
42) 1,1-Dichloropropene	7.96	110	227138	9.58 ug/l	99
43) Carbon tetrachloride	8.12	119	441719	9.46 ug/l	99
44) 1,2-Dichloroethane	8.34	62	411521	9.95 ug/l	100
45) Benzene	8.37	78	1949888	10.15 ug/l	99
46) Trichloroethene	9.32	130	525277	10.31 ug/l	100
48) 1,2-Dichloropropane	9.60	63	548803	10.35 ug/l	95
49) 1,4-Dioxane	10.03	88	29981	178.98 ug/l	92
50) Bromodichloromethane	9.98	83	564805	9.96 ug/l	98
51) Dibromomethane	10.07	93	195888	9.65 ug/l	99
52) 2-Chloroethyl vinyl ether	10.47	63	96523	7.35 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1310386	48.22 ug/l	99
54) cis-1,3-Dichloropropene	10.87	75	729205	10.17 ug/l	99
56) Toluene	11.43	91	2003295	10.21 ug/l	100
57) Ethyl methacrylate	11.72	69	380439	9.95 ug/l	99
58) trans-1,3-Dichloropropene	11.73	75	509830	10.09 ug/l	99
59) 2-Hexanone	12.03	43	846028	50.01 ug/l	99
60) 1,1,2-Trichloroethane	12.01	97	279845	10.32 ug/l	99
61) 1,3-Dichloropropane	12.46	76	541205	10.17 ug/l	99
62) Tetrachloroethene	12.57	164	381168	9.94 ug/l	99
63) Dibromochloromethane	12.94	129	333606	9.99 ug/l	100
64) 1,2-Dibromoethane	13.30	107	257755	9.68 ug/l	99
65) 1-Chlorohexane	13.58	91	786597	9.79 ug/l	100
66) Chlorobenzene	14.07	112	1226203	10.44 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	390351	10.32 ug/l	99
68) Ethylbenzene	14.16	91	2294666	10.26 ug/l	100
69) m-Xylene & p-Xylene	14.30	91	3383574	20.58 ug/l	100
70) o-Xylene	15.13	91	1697439	10.58 ug/l	100
71) Styrene	15.19	104	1302628	10.77 ug/l	100
73) Isopropylbenzene	15.81	105	2025846	10.68 ug/l	100
74) Bromoform	15.84	173	162499	10.17 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	308893	9.99 ug/l	100
77) 1,2,3-Trichloropropane	16.44	110	73600	9.46 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.55	53	81551	10.22 ug/l	99
79) n-Propylbenzene	16.58	91	2681026	10.65 ug/l	100
80) Bromobenzene	16.67	156	407902	10.29 ug/l	98
81) 1,3,5-Trimethylbenzene	16.89	105	1630124	10.92 ug/l	99
82) 2-Chlorotoluene	16.94	91	1659300	10.83 ug/l	96
83) 4-Chlorotoluene	17.03	91	1389754	10.53 ug/l	94
84) tert-Butylbenzene	17.60	134	368156	10.86 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV069.D
Acq On : 5 Jan 2011 9:40 pm
Sample : VO01A04C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 22:02 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1609673	10.92 ug/l	99
86) sec-Butylbenzene	18.00	105	2227985	10.72 ug/l	99
87) p-Isopropyltoluene	18.24	119	1713302	10.80 ug/l	99
88) 1,3-Dichlorobenzene	18.40	146	861815	10.76 ug/l	99
89) 1,4-Dichlorobenzene	18.57	146	823401	10.70 ug/l	100
90) n-Butylbenzene	18.89	91	1782284	10.71 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	691953	10.64 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.18	157	38360	9.95 ug/l	98
93) 1,2,4-Trichlorobenzene	21.32	180	416828	10.53 ug/l	100
94) Hexachlorobutadiene	21.50	225	261074	10.33 ug/l	98
95) Naphthalene	21.69	128	499921	10.91 ug/l	100
96) 1,2,3-Trichlorobenzene	22.01	180	323706	10.23 ug/l	99

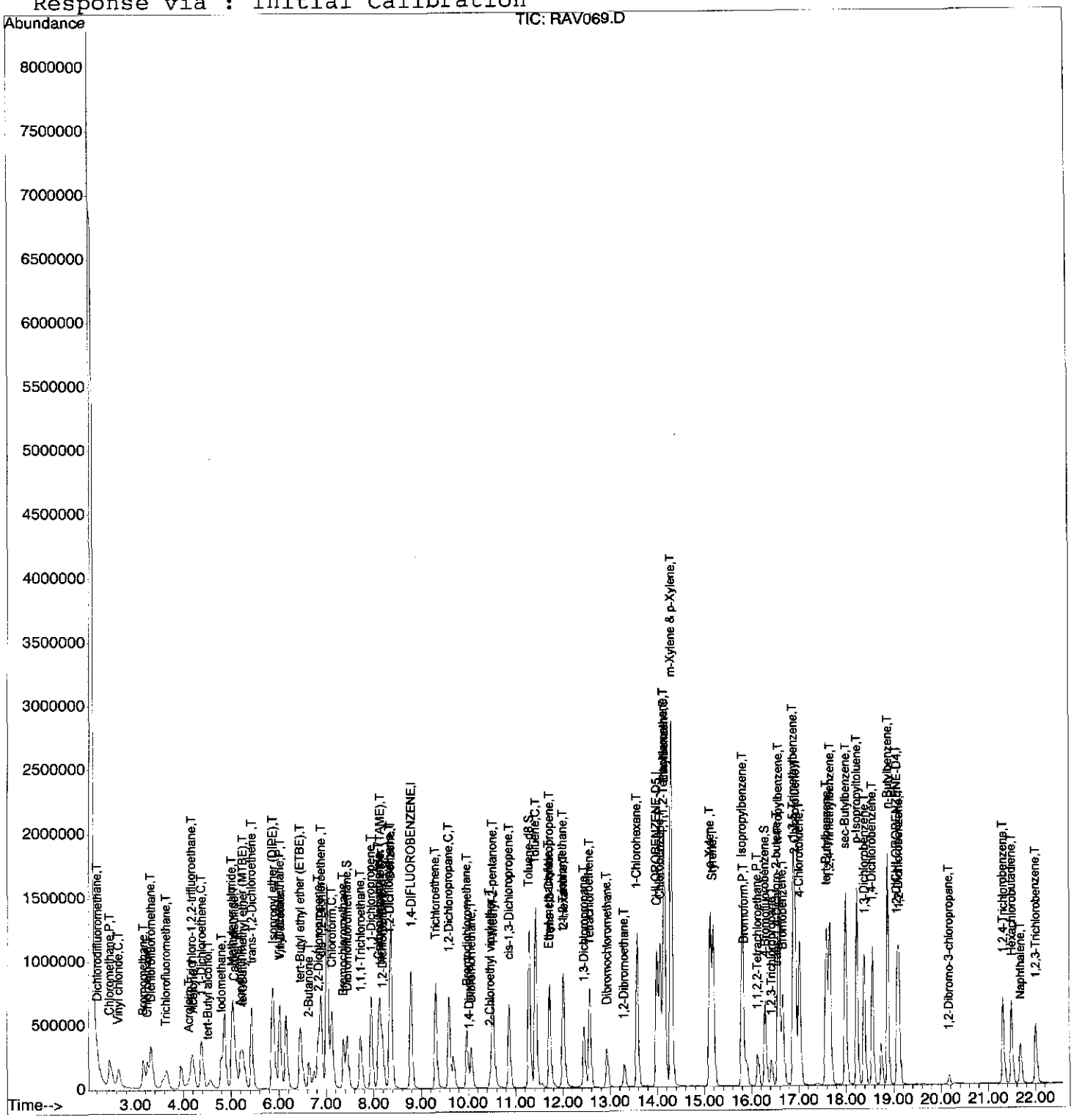
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV069.D
Acq On : 5 Jan 2011 9:40 pm
Sample : VO01A04C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 22:02 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV090.D
Acq On : 6 Jan 2011 6:44 pm
Sample : VO01A05B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 7 6:03 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1445821	10.00 ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1291886	10.00 ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	454899	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.46	111	432039	9.97 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 99.70%	
40) 1,2-Dichloroethane-d4	8.21	65	345208	10.19 ug/l	0.00
Spiked Amount 10.000			Recovery	= 101.90%	
55) Toluene-d8	11.30	98	1644047	9.77 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 97.70%	
76) 4-Bromofluorobenzene	16.31	95	540489	10.48 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 104.80%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV090.D VO01L11.M Fri Jan 07 06:03:24 2011

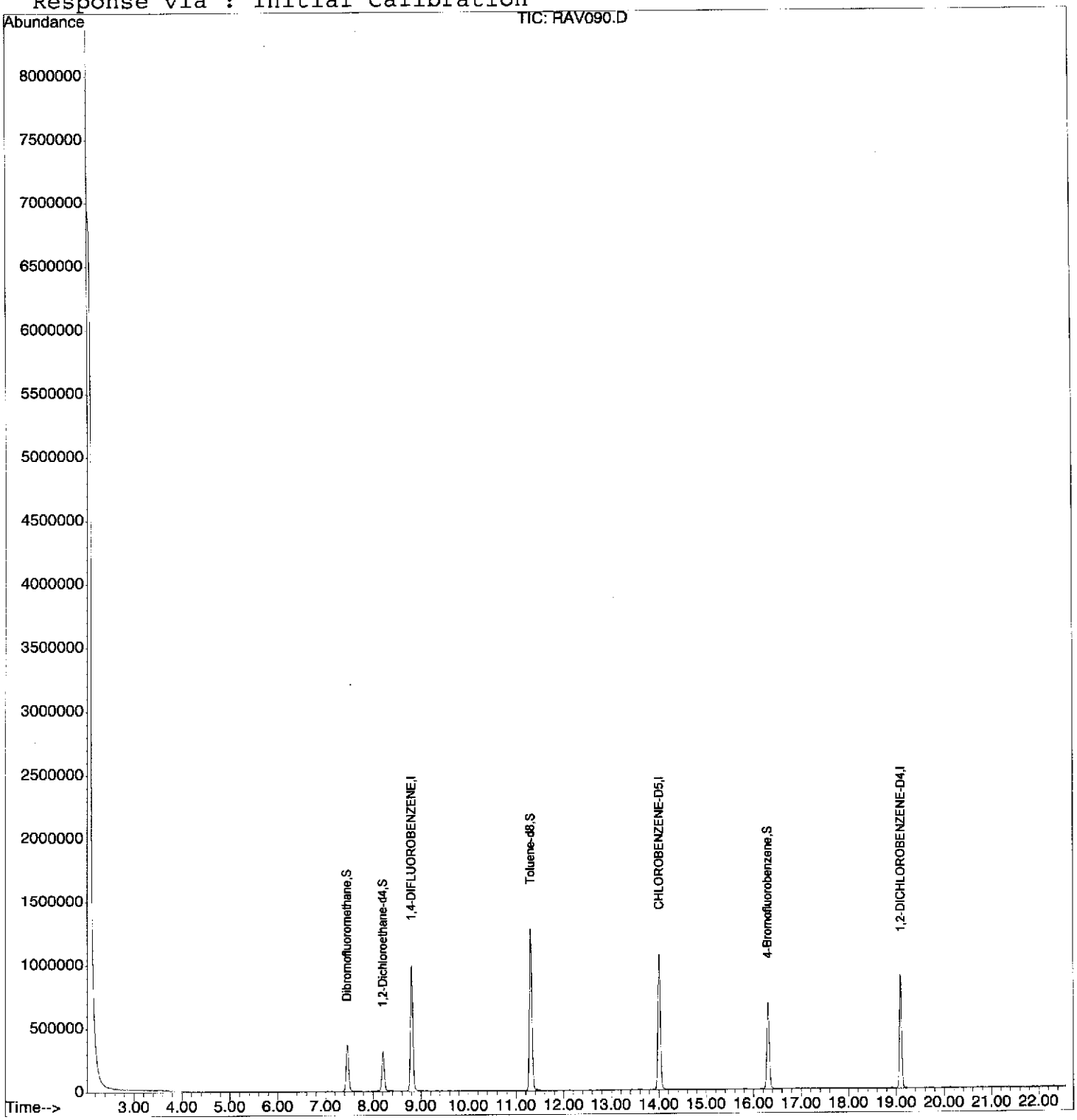
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV090.D
Acq On : 6 Jan 2011 6:44 pm
Sample : VO01A05B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 7 6:03 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV087.D
Acq On : 6 Jan 2011 5:07 pm
Sample : VO01A05C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 17:29 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1472056	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1299105	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	458595	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	453889	10.29	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	102.90%	
40) 1,2-Dichloroethane-d4	8.21	65	361551	10.48	ug/l	0.00
Spiked Amount 10.000			Recovery	=	104.80%	
55) Toluene-d8	11.30	98	1779434	10.52	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.20%	
76) 4-Bromofluorobenzene	16.30	95	552402	10.62	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.20%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	298863	11.60	ug/l	98
4) Chloromethane	2.47	50	592333	11.77	ug/l	99
5) Vinyl chloride	2.65	62	500202	11.64	ug/l	100
6) Bromomethane	3.18	94	383770	12.01	ug/l	100
7) Chloroethane	3.25	64	374139	11.21	ug/l	98
8) Dichlorofluoromethane	3.34	67	792979	9.20	ug/l	100
9) Trichlorofluoromethane	3.64	101	483157	9.87	ug/l	100
11) Acrolein	4.14	56	83060	35.02	ug/l #	68
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	293768	12.53	ug/l	99
13) Acetone	4.23	43	259859	44.75	ug/l	99
14) 1,1-Dichloroethene	4.39	61	775426	11.45	ug/l	100
15) tert-Butyl alcohol	4.54	59	91123	42.20	ug/l	96
17) Iodomethane	4.81	142	807829	11.32	ug/l	100
19) Methylene chloride	5.04	49	677795	9.61	ug/l	99
20) Carbon disulfide	5.07	76	1880537	10.70	ug/l	100
21) Acrylonitrile	5.21	53	377723	49.14	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	675286	10.09	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	793825	10.46	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1905355	10.23	ug/l	99
25) Vinyl acetate	6.04	43	570147	8.34	ug/l	99
26) 1,1-Dichloroethane	6.04	63	1009658	10.86	ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	1121969	10.12	ug/l	100
29) 2-Butanone	6.64	43	520761	47.89	ug/l	98
30) 2,2-Dichloropropane	6.85	77	594360	10.61	ug/l	100
31) cis-1,2-Dichloroethene	6.91	96	543587	9.97	ug/l	98
32) Chloroform	7.15	83	844588	10.52	ug/l	100
33) Bromochloromethane	7.38	49	410926	10.20	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV087.D
Acq On : 6 Jan 2011 5:07 pm
Sample : VO01A05C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 17:29 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	615363	10.58 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	166232	10.11 ug/l	98
42) 1,1-Dichloropropene	7.97	110	256592	10.28 ug/l	99
43) Carbon tetrachloride	8.12	119	512195	10.42 ug/l	99
44) 1,2-Dichloroethane	8.36	62	435762	10.01 ug/l	99
45) Benzene	8.39	78	2056738	10.17 ug/l	99
46) Trichloroethene	9.34	130	556799	10.38 ug/l	99
48) 1,2-Dichloropropane	9.62	63	570091	10.22 ug/l	96
49) 1,4-Dioxane	10.06	88	29417	166.82 ug/l	87
50) Bromodichloromethane	9.99	83	575997	9.64 ug/l	98
51) Dibromomethane	10.09	93	203910	9.55 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	110678	8.00 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	1330866	46.52 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	772171	10.23 ug/l	99
56) Toluene	11.45	91	2072892	10.03 ug/l	100
57) Ethyl methacrylate	11.73	69	402179	9.99 ug/l	98
58) trans-1,3-Dichloropropene	11.75	75	553504	10.41 ug/l	97
59) 2-Hexanone	12.04	43	842687	47.32 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	284793	9.98 ug/l	99
61) 1,3-Dichloropropane	12.47	76	555041	9.90 ug/l	100
62) Tetrachloroethene	12.59	164	432778	10.72 ug/l	98
63) Dibromochloromethane	12.95	129	342335	9.74 ug/l	99
64) 1,2-Dibromoethane	13.32	107	263170	9.39 ug/l	100
65) 1-Chlorohexane	13.60	91	903730	10.68 ug/l	100
66) Chlorobenzene	14.08	112	1286626	10.40 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.16	131	392253	9.85 ug/l	99
68) Ethylbenzene	14.17	91	2375683	10.09 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	3477749	20.10 ug/l	100
70) o-Xylene	15.14	91	1699874	10.06 ug/l	99
71) Styrene	15.21	104	1327789	10.43 ug/l	99
73) Isopropylbenzene	15.83	105	2150419	10.68 ug/l	99
74) Bromoform	15.86	173	169302	9.98 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.16	83	315490	9.61 ug/l	99
77) 1,2,3-Trichloropropane	16.44	110	76184	9.22 ug/l	100
78) trans-1,4-Dichloro-2-buten	16.57	53	81817	9.65 ug/l	100
79) n-Propylbenzene	16.60	91	2757201	10.31 ug/l	100
80) Bromobenzene	16.69	156	426494	10.13 ug/l	100
81) 1,3,5-Trimethylbenzene	16.91	105	1641643	10.36 ug/l	99
82) 2-Chlorotoluene	16.94	91	1717959	10.55 ug/l	96
83) 4-Chlorotoluene	17.04	91	1401934	10.00 ug/l	94
84) tert-Butylbenzene	17.61	134	382805	10.63 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV087.D
Acq On : 6 Jan 2011 5:07 pm
Sample : VO01A05C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 17:29 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1645775	10.51 ug/l	98
86) sec-Butylbenzene	18.01	105	2322013	10.52 ug/l	99
87) p-Isopropyltoluene	18.26	119	1770026	10.50 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	873018	10.27 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	846024	10.35 ug/l	99
90) n-Butylbenzene	18.89	91	1865980	10.56 ug/l	100
91) 1,2-Dichlorobenzene	19.15	146	716465	10.37 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.18	157	39934	9.75 ug/l	97
93) 1,2,4-Trichlorobenzene	21.34	180	450349	10.71 ug/l	99
94) Hexachlorobutadiene	21.51	225	281799	10.50 ug/l	98
95) Naphthalene	21.69	128	525797	10.81 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	339862	10.11 ug/l	98

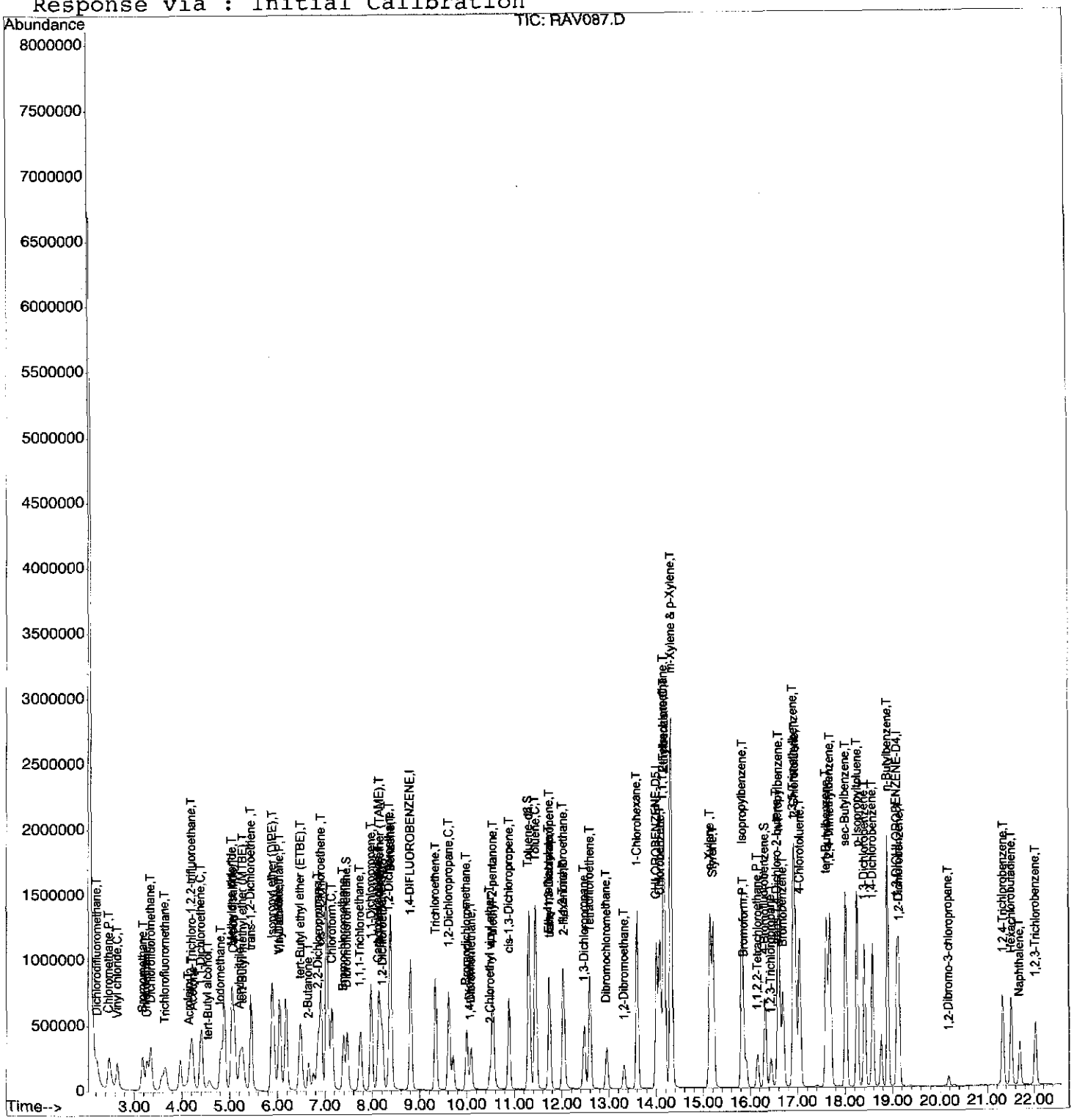
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV087.D
Acq On : 6 Jan 2011 5:07 pm
Sample : VO01A05C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 17:29 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV088.D Vial: 6
Acq On : 6 Jan 2011 5:39 pm Operator: MW
Sample : VO01A05X Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 6 18:02 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1520272	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1325948	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	476083	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	449738	9.87	ug/l	-0.01
Spiked Amount 10.000			Recovery = 98.70%			
40) 1,2-Dichloroethane-d4	8.21	65	362375	10.17	ug/l	0.00
Spiked Amount 10.000			Recovery = 101.70%			
55) Toluene-d8	11.30	98	1812227	10.49	ug/l	-0.01
Spiked Amount 10.000			Recovery = 104.90%			
76) 4-Bromofluorobenzene	16.30	95	570971	10.58	ug/l	-0.01
Spiked Amount 10.000			Recovery = 105.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	295447	11.11	ug/l	99
4) Chloromethane	2.47	50	565355	10.87	ug/l	100
5) Vinyl chloride	2.65	62	489434	11.02	ug/l	99
6) Bromomethane	3.17	94	372853	11.29	ug/l	99
7) Chloroethane	3.25	64	359007	10.42	ug/l	99
8) Dichlorofluoromethane	3.34	67	788436	8.85	ug/l	99
9) Trichlorofluoromethane	3.64	101	476525	9.43	ug/l	99
11) Acrolein	4.14	56	84360	34.44	ug/l #	57
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	292620	12.09	ug/l	99
13) Acetone	4.23	43	275256	45.90	ug/l	100
14) 1,1-Dichloroethene	4.39	61	751794	10.74	ug/l	99
15) tert-Butyl alcohol	4.53	59	94346	42.31	ug/l	99
17) Iodomethane	4.81	142	803900	10.90	ug/l	100
19) Methylene chloride	5.04	49	668109	9.18	ug/l	98
20) Carbon disulfide	5.07	76	1607864	8.89	ug/l	100
21) Acrylonitrile	5.21	53	371726	46.83	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	667259	9.65	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	779612	9.94	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1868751	9.72	ug/l	100
25) Vinyl acetate	6.04	43	564967	8.00	ug/l	98
26) 1,1-Dichloroethane	6.04	63	999875	10.41	ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	1107300	9.67	ug/l	100
29) 2-Butanone	6.64	43	532604	47.43	ug/l	98
30) 2,2-Dichloropropane	6.86	77	590544	10.21	ug/l	100
31) cis-1,2-Dichloroethene	6.91	96	530615	9.42	ug/l	98
32) Chloroform	7.15	83	839021	10.12	ug/l	100
33) Bromochloromethane	7.38	49	409502	9.85	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV088.D Vial: 6
Acq On : 6 Jan 2011 5:39 pm Operator: MW
Sample : VO01A05X Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 6 18:02 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	609834	10.15 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	169117	9.96 ug/l	96
42) 1,1-Dichloropropene	7.97	110	249412	9.79 ug/l	100
43) Carbon tetrachloride	8.14	119	505309	10.08 ug/l	98
44) 1,2-Dichloroethane	8.36	62	435986	9.81 ug/l	100
45) Benzene	8.39	78	2034400	9.86 ug/l	100
46) Trichloroethene	9.34	130	542152	9.91 ug/l	99
48) 1,2-Dichloropropane	9.62	63	563126	9.89 ug/l	97
49) 1,4-Dioxane	10.05	88	30405	168.94 ug/l	88
50) Bromodichloromethane	9.99	83	576003	9.45 ug/l	98
51) Dibromomethane	10.08	93	203586	9.34 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	109393	7.75 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	1354197	46.38 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	771752	10.02 ug/l	99
56) Toluene	11.45	91	2064259	9.79 ug/l	100
57) Ethyl methacrylate	11.73	69	396235	9.64 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	546643	10.07 ug/l	97
59) 2-Hexanone	12.04	43	860856	47.36 ug/l	99
60) 1,1,2-Trichloroethane	12.03	97	289698	9.94 ug/l	99
61) 1,3-Dichloropropane	12.47	76	546972	9.56 ug/l	100
62) Tetrachloroethene	12.59	164	424347	10.30 ug/l	98
63) Dibromochloromethane	12.95	129	339241	9.46 ug/l	99
64) 1,2-Dibromoethane	13.32	107	260391	9.10 ug/l	100
65) 1-Chlorohexane	13.60	91	891800	10.33 ug/l	100
66) Chlorobenzene	14.09	112	1262282	10.00 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.16	131	390198	9.60 ug/l	99
68) Ethylbenzene	14.17	91	2360620	9.82 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3448560	19.52 ug/l	100
70) o-Xylene	15.14	91	1694266	9.82 ug/l	100
71) Styrene	15.21	104	1323047	10.18 ug/l	99
73) Isopropylbenzene	15.83	105	2122069	10.15 ug/l	100
74) Bromoform	15.86	173	168538	9.57 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	316085	9.27 ug/l	99
77) 1,2,3-Trichloropropane	16.44	110	76738	8.94 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.57	53	83954	9.54 ug/l	99
79) n-Propylbenzene	16.60	91	2723899	9.81 ug/l	100
80) Bromobenzene	16.69	156	424667	9.71 ug/l	99
81) 1,3,5-Trimethylbenzene	16.91	105	1624541	9.87 ug/l	99
82) 2-Chlorotoluene	16.94	91	1721807	10.19 ug/l	97
83) 4-Chlorotoluene	17.04	91	1380021	9.49 ug/l	94
84) tert-Butylbenzene	17.61	134	375136	10.04 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV088.D
Acq On : 6 Jan 2011 5:39 pm
Sample : VO01A05X
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 18:02 2011

Vial: 6
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1653461	10.17 ug/l	98
86) sec-Butylbenzene	18.01	105	2274773	9.92 ug/l	99
87) p-Isopropyltoluene	18.26	119	1760158	10.06 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	881914	9.99 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	849801	10.02 ug/l	100
90) n-Butylbenzene	18.89	91	1851650	10.09 ug/l	100
91) 1,2-Dichlorobenzene	19.13	146	711074	9.92 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.18	157	39186	9.22 ug/l	100
93) 1,2,4-Trichlorobenzene	21.34	180	451988	10.36 ug/l	99
94) Hexachlorobutadiene	21.51	225	280194	10.06 ug/l	98
95) Naphthalene	21.69	128	542272	10.74 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	346372	9.93 ug/l	98

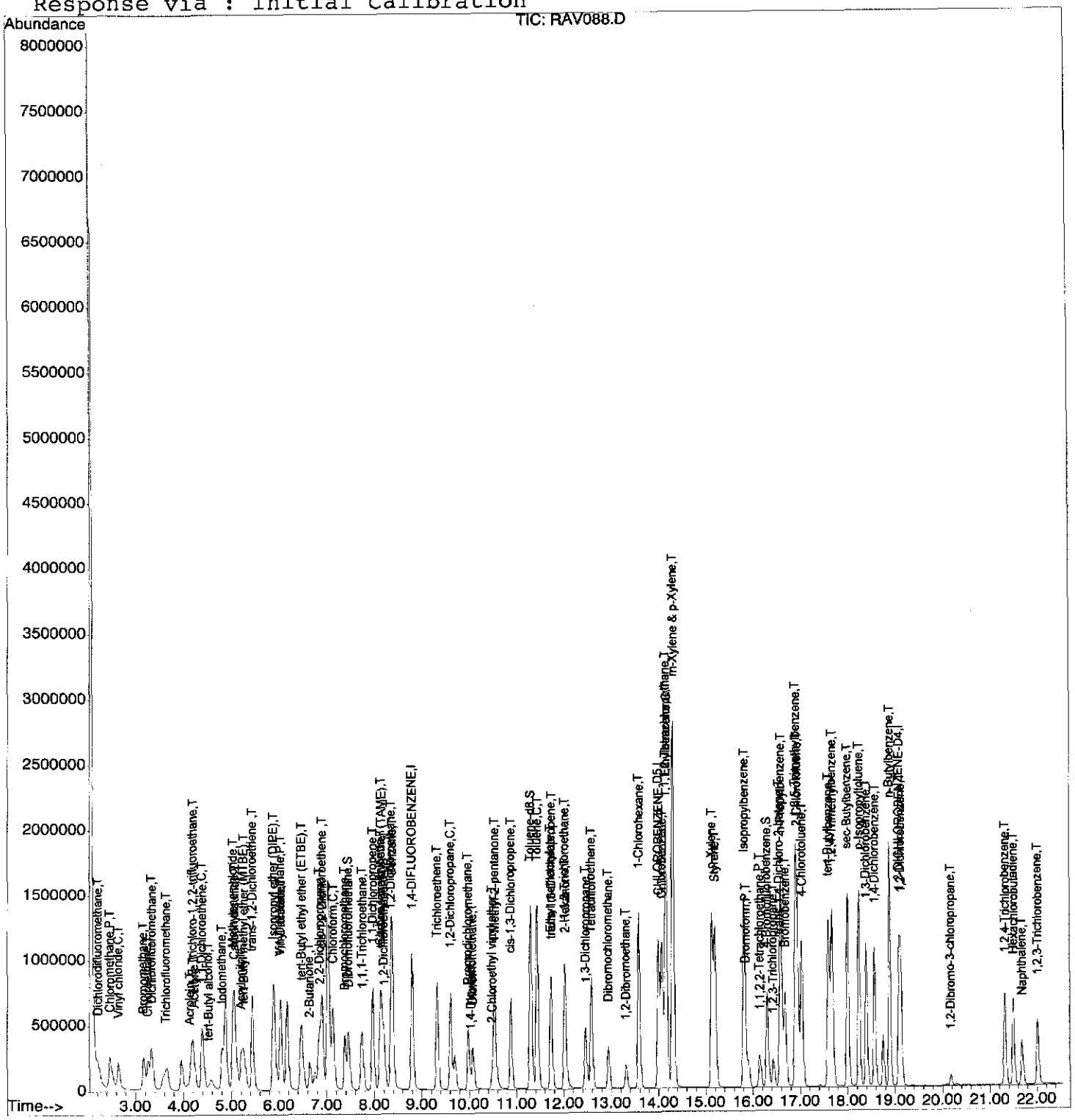
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV088.D
Acq On : 6 Jan 2011 5:39 pm
Sample : VO01A05X
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 18:02 2011

Vial: 6
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV113.D
Acq On : 7 Jan 2011 7:20 am
Sample : VO01A06B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 7 7:44 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1366045	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1200048	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	421701	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	408349	9.98	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.80%	
40) 1,2-Dichloroethane-d4	8.21	65	321430	10.04	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.40%	
55) Toluene-d8	11.30	98	1566345	10.02	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.20%	
76) 4-Bromofluorobenzene	16.32	95	503650	10.53	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.30%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

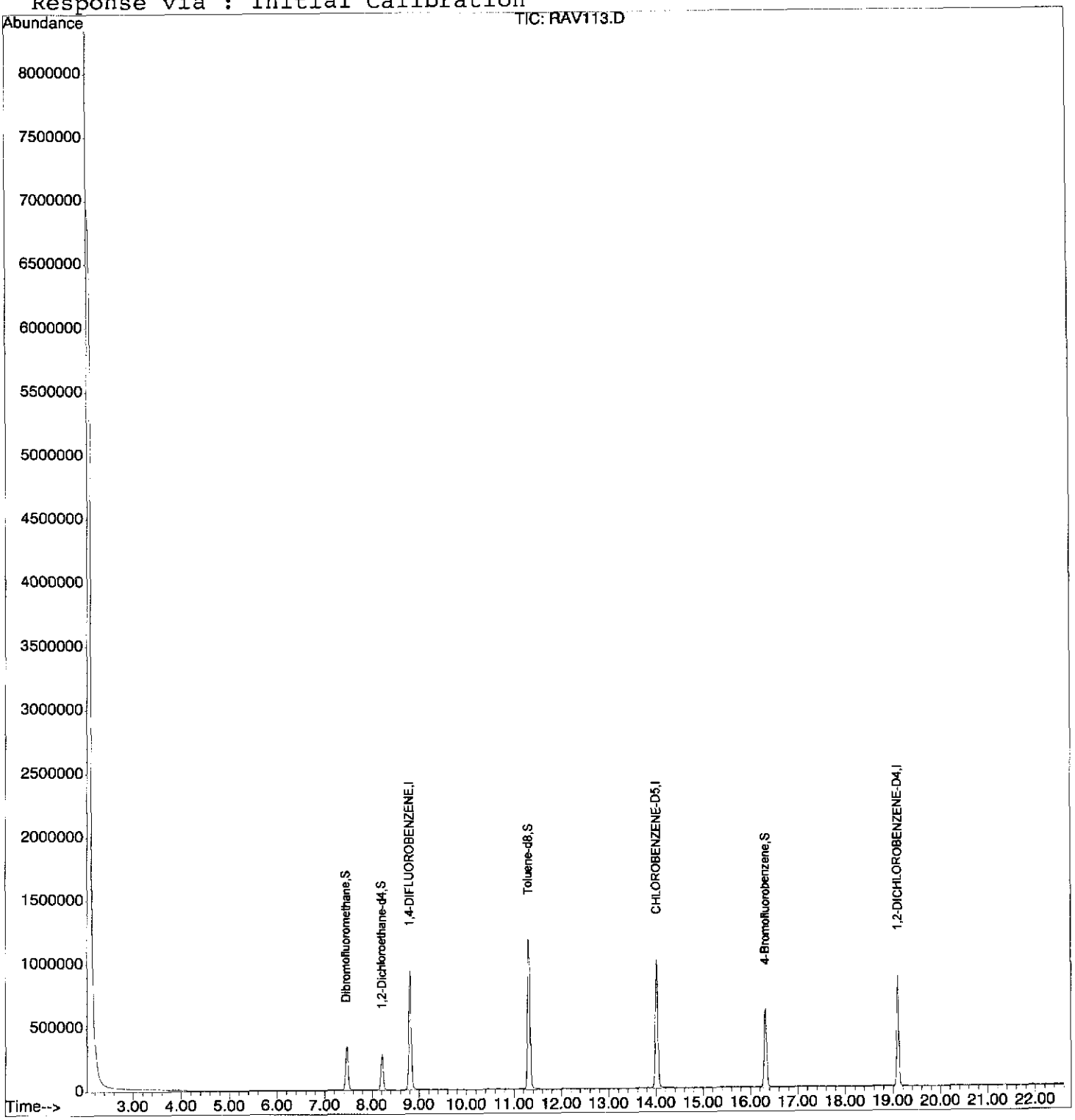
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV113.D
Acq On : 7 Jan 2011 7:20 am
Sample : VO01A06B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 7 7:44 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV110.D
Acq On : 7 Jan 2011 5:41 am
Sample : VO01A06L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 7 6:04 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1490023	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1323622	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	471531	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	452089	10.13	ug/l	0.00
Spiked Amount 10.000			Recovery	=	101.30%	
40) 1,2-Dichloroethane-d4	8.21	65	360625	10.33	ug/l	0.00
Spiked Amount 10.000			Recovery	=	103.30%	
55) Toluene-d8	11.32	98	1796840	10.42	ug/l	0.00
Spiked Amount 10.000			Recovery	=	104.20%	
76) 4-Bromofluorobenzene	16.32	95	562592	10.52	ug/l	0.00
Spiked Amount 10.000			Recovery	=	105.20%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.23	85	206330	7.91	ug/l	100
4) Chloromethane	2.48	50	519186	10.19	ug/l	100
5) Vinyl chloride	2.65	62	405774	9.33	ug/l	100
6) Bromomethane	3.18	94	346180	10.70	ug/l	100
7) Chloroethane	3.25	64	327563	9.70	ug/l	99
8) Dichlorofluoromethane	3.34	67	745585	8.54	ug/l	100
9) Trichlorofluoromethane	3.65	101	348903	7.04	ug/l	99
11) Acrolein	4.14	56	62425	26.00	ug/l #	43
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	207506	8.74	ug/l	98
13) Acetone	4.23	43	261240	44.44	ug/l	99
14) 1,1-Dichloroethene	4.41	61	659220	9.61	ug/l	100
15) tert-Butyl alcohol	4.53	59	87049	39.83	ug/l	97
17) Iodomethane	4.81	142	775232	10.73	ug/l	100
19) Methylene chloride	5.04	49	660335	9.25	ug/l	98
20) Carbon disulfide	5.09	76	1542070	8.70	ug/l	100
21) Acrylonitrile	5.21	53	367117	47.19	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	640848	9.46	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	743172	9.67	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1876375	9.95	ug/l	100
25) Vinyl acetate	6.04	43	388941	5.62	ug/l	97
26) 1,1-Dichloroethane	6.05	63	973116	10.34	ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	1093337	9.74	ug/l	100
29) 2-Butanone	6.64	43	514490	46.75	ug/l	99
30) 2,2-Dichloropropane	6.86	77	421045	7.42	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	520916	9.44	ug/l	99
32) Chloroform	7.15	83	827554	10.19	ug/l	100
33) Bromochloromethane	7.38	49	396876	9.74	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV110.D
Acq On : 7 Jan 2011 5:41 am
Sample : VO01A06L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 7 6:04 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	547323	9.29 ug/l	98
39) tert-Amyl methyl ether (TA	8.17	87	162401	9.76 ug/l	99
42) 1,1-Dichloropropene	7.97	110	226559	8.91 ug/l	99
43) Carbon tetrachloride	8.14	119	429107	8.57 ug/l	98
44) 1,2-Dichloroethane	8.36	62	431203	9.72 ug/l	100
45) Benzene	8.39	78	1969342	9.56 ug/l	99
46) Trichloroethene	9.34	130	541464	9.91 ug/l	99
48) 1,2-Dichloropropane	9.62	63	556819	9.79 ug/l	95
49) 1,4-Dioxane	10.05	88	28874	160.71 ug/l	94
50) Bromodichloromethane	10.00	83	564878	9.28 ug/l	97
51) Dibromomethane	10.09	93	200890	9.23 ug/l	98
52) 2-Chloroethyl vinyl ether	10.49	63	109586	7.78 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	1317407	45.20 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	718296	9.34 ug/l	99
56) Toluene	11.45	91	1974525	9.38 ug/l	100
57) Ethyl methacrylate	11.73	69	380356	9.27 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	510699	9.43 ug/l	98
59) 2-Hexanone	12.04	43	824786	45.46 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	279203	9.60 ug/l	99
61) 1,3-Dichloropropane	12.47	76	541861	9.49 ug/l	99
62) Tetrachloroethene	12.59	164	374125	9.10 ug/l	99
63) Dibromochloromethane	12.95	129	332123	9.27 ug/l	99
64) 1,2-Dibromoethane	13.32	107	253100	8.86 ug/l	99
65) 1-Chlorohexane	13.60	91	739294	8.58 ug/l	99
66) Chlorobenzene	14.09	112	1231208	9.77 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.16	131	379695	9.36 ug/l	99
68) Ethylbenzene	14.17	91	2230098	9.29 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3296870	18.70 ug/l	100
70) o-Xylene	15.15	91	1628928	9.46 ug/l	100
71) Styrene	15.21	104	1259457	9.71 ug/l	99
73) Isopropylbenzene	15.83	105	1972921	9.53 ug/l	99
74) Bromoform	15.86	173	164024	9.40 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.16	83	292694	8.67 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	73525	8.65 ug/l	98
78) trans-1,4-Dichloro-2-buten	16.59	53	73468	8.43 ug/l	97
79) n-Propylbenzene	16.60	91	2529907	9.20 ug/l	100
80) Bromobenzene	16.69	156	406272	9.38 ug/l	99
81) 1,3,5-Trimethylbenzene	16.91	105	1524168	9.35 ug/l	100
82) 2-Chlorotoluene	16.96	91	1580779	9.44 ug/l	96
83) 4-Chlorotoluene	17.04	91	1350279	9.37 ug/l	95
84) tert-Butylbenzene	17.62	134	350251	9.46 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV110.D Vial: 4
Acq On : 7 Jan 2011 5:41 am Operator: MW
Sample : VO01A06L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 6:04 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

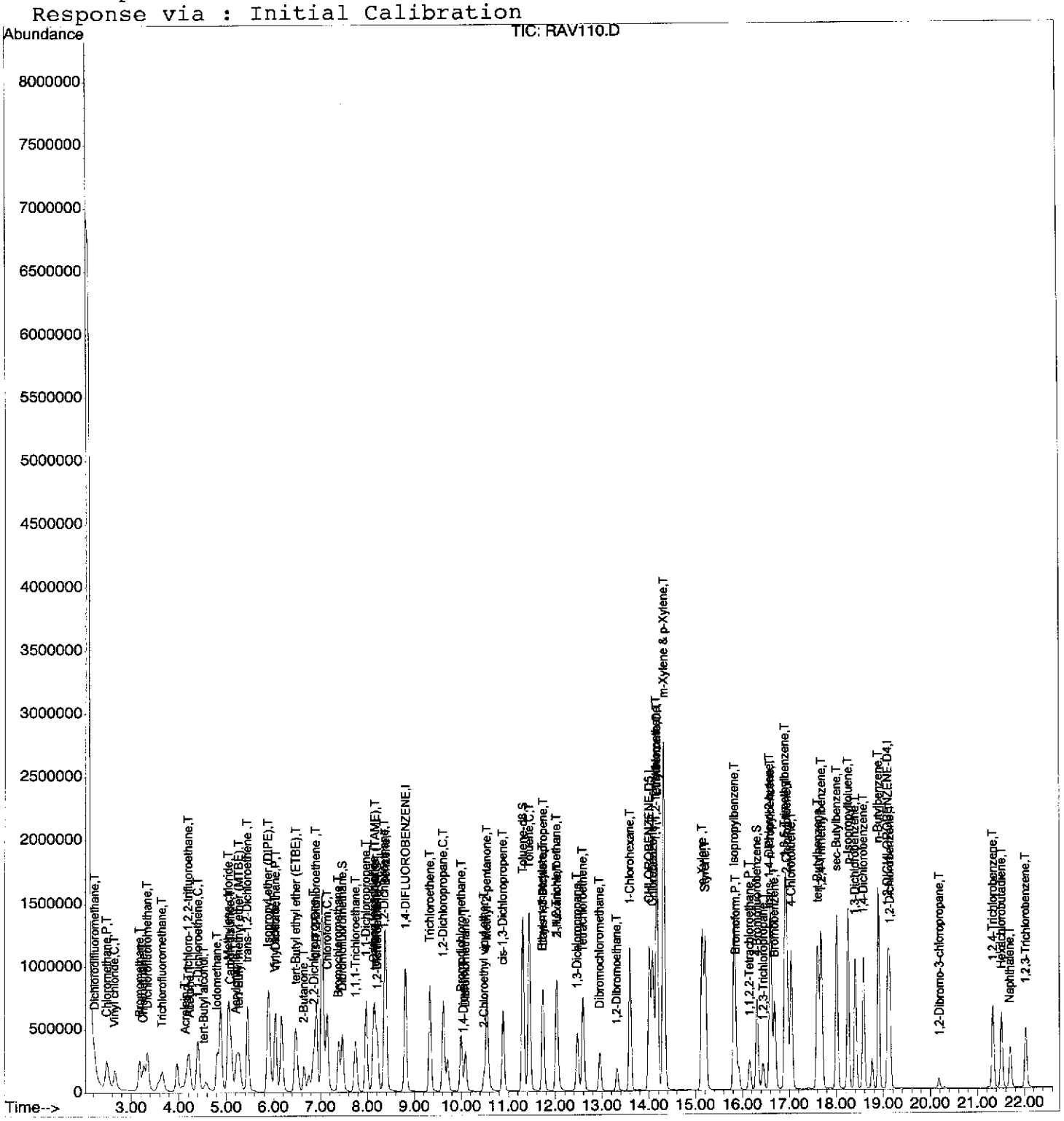
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	1566363	9.73 ug/l	99
86) sec-Butylbenzene	18.02	105	2059049	9.07 ug/l	99
87) p-Isopropyltoluene	18.26	119	1600519	9.24 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	844048	9.65 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	805778	9.59 ug/l	99
90) n-Butylbenzene	18.89	91	1624491	8.94 ug/l	100
91) 1,2-Dichlorobenzene	19.15	146	689706	9.71 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	37660	8.95 ug/l	99
93) 1,2,4-Trichlorobenzene	21.34	180	422151	9.77 ug/l	99
94) Hexachlorobutadiene	21.51	225	242890	8.80 ug/l	99
95) Naphthalene	21.69	128	520546	10.41 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	324146	9.38 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV110.D Vial: 4
Acq On : 7 Jan 2011 5:41 am Operator: MW
Sample : VO01A06L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 6:04 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



2173A

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV111.D
Acq On : 7 Jan 2011 6:14 am
Sample : VO01A06C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 7 6:36 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1323450	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1174008	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	401507	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	407985	10.29	ug/l	0.00
Spiked Amount 10.000			Recovery	=	102.90%	
40) 1,2-Dichloroethane-d4	8.21	65	332580	10.72	ug/l	0.00
Spiked Amount 10.000			Recovery	=	107.20%	
55) Toluene-d8	11.32	98	1600816	10.47	ug/l	0.00
Spiked Amount 10.000			Recovery	=	104.70%	
76) 4-Bromofluorobenzene	16.31	95	495007	10.87	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	108.70%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	204783	8.84	ug/l	99
4) Chloromethane	2.49	50	519780	11.48	ug/l	99
5) Vinyl chloride	2.65	62	419036	10.84	ug/l	100
6) Bromomethane	3.18	94	345979	12.04	ug/l	99
7) Chloroethane	3.26	64	333248	11.11	ug/l	99
8) Dichlorofluoromethane	3.34	67	731108	9.43	ug/l	100
9) Trichlorofluoromethane	3.64	101	345704	7.86	ug/l	99
11) Acrolein	4.14	56	65458	30.69	ug/l #	56
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	202977	9.63	ug/l	99
13) Acetone	4.23	43	261968	50.18	ug/l	96
14) 1,1-Dichloroethene	4.41	61	652851	10.72	ug/l	99
15) tert-Butyl alcohol	4.54	59	83885	43.21	ug/l	95
17) Iodomethane	4.81	142	759898	11.84	ug/l	100
19) Methylene chloride	5.05	49	655581	10.34	ug/l	98
20) Carbon disulfide	5.08	76	1611468	10.21	ug/l	99
21) Acrylonitrile	5.21	53	370491	53.61	ug/l	100
22) tert-Butyl methyl ether (M	5.27	73	627614	10.43	ug/l	98
23) trans-1,2-Dichloroethene	5.45	61	731430	10.72	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1804038	10.77	ug/l	99
25) Vinyl acetate	6.04	43	354800	5.77	ug/l	98
26) 1,1-Dichloroethane	6.05	63	948596	11.35	ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	1062646	10.66	ug/l	100
29) 2-Butanone	6.66	43	519874	53.18	ug/l	99
30) 2,2-Dichloropropane	6.87	77	417345	8.29	ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	505559	10.31	ug/l	98
32) Chloroform	7.15	83	807846	11.20	ug/l	100
33) Bromochloromethane	7.38	49	393524	10.87	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV111.D Vial: 5
Acq On : 7 Jan 2011 6:14 am Operator: MW
Sample : VO01A06C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 6:36 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	543307	10.39 ug/l	98
39) tert-Amyl methyl ether (TA	8.17	87	158270	10.71 ug/l	99
42) 1,1-Dichloropropene	7.98	110	216401	9.60 ug/l	99
43) Carbon tetrachloride	8.14	119	432208	9.73 ug/l	98
44) 1,2-Dichloroethane	8.36	62	420690	10.69 ug/l	99
45) Benzene	8.39	78	1930095	10.56 ug/l	99
46) Trichloroethene	9.34	130	526168	10.86 ug/l	99
48) 1,2-Dichloropropane	9.62	63	547848	10.86 ug/l	96
49) 1,4-Dioxane	10.06	88	29119	182.73 ug/l	96
50) Bromodichloromethane	9.99	83	550841	10.21 ug/l	98
51) Dibromomethane	10.09	93	193959	10.05 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	108911	8.71 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	1324604	51.24 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	701573	10.29 ug/l	99
56) Toluene	11.45	91	1928265	10.33 ug/l	99
57) Ethyl methacrylate	11.73	69	366963	10.08 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	496187	10.33 ug/l	98
59) 2-Hexanone	12.04	43	829825	51.56 ug/l	99
60) 1,1,2-Trichloroethane	12.03	97	271776	10.54 ug/l	99
61) 1,3-Dichloropropane	12.47	76	523071	10.33 ug/l	99
62) Tetrachloroethene	12.59	164	365101	10.01 ug/l	99
63) Dibromochloromethane	12.95	129	323633	10.19 ug/l	100
64) 1,2-Dibromoethane	13.32	107	251203	9.92 ug/l	99
65) 1-Chlorohexane	13.60	91	719385	9.41 ug/l	100
66) Chlorobenzene	14.09	112	1202506	10.76 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.16	131	371866	10.33 ug/l	99
68) Ethylbenzene	14.18	91	2161584	10.15 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	3175131	20.30 ug/l	100
70) o-Xylene	15.15	91	1585259	10.38 ug/l	99
71) Styrene	15.21	104	1235284	10.74 ug/l	99
73) Isopropylbenzene	15.83	105	1934957	10.97 ug/l	100
74) Bromoform	15.86	173	159709	10.75 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.16	83	288478	10.03 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	73435	10.15 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.57	53	71905	9.69 ug/l	98
79) n-Propylbenzene	16.60	91	2426079	10.36 ug/l	99
80) Bromobenzene	16.69	156	399130	10.82 ug/l	99
81) 1,3,5-Trimethylbenzene	16.91	105	1496140	10.78 ug/l	99
82) 2-Chlorotoluene	16.96	91	1557563	10.93 ug/l	96
83) 4-Chlorotoluene	17.05	91	1279989	10.43 ug/l	94
84) tert-Butylbenzene	17.61	134	343140	10.89 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV111.D Vial: 5
Acq On : 7 Jan 2011 6:14 am Operator: MW
Sample : VO01A06C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 6:36 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	1511395	11.02 ug/l	99
86) sec-Butylbenzene	18.02	105	1988953	10.29 ug/l	99
87) p-Isopropyltoluene	18.26	119	1514291	10.26 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	791392	10.63 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	765564	10.70 ug/l	100
90) n-Butylbenzene	18.90	91	1518125	9.81 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	664961	10.99 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	36540	10.19 ug/l	99
93) 1,2,4-Trichlorobenzene	21.34	180	392358	10.66 ug/l	99
94) Hexachlorobutadiene	21.51	225	228561	9.73 ug/l	98
95) Naphthalene	21.69	128	493364	11.58 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	301780	10.26 ug/l	98

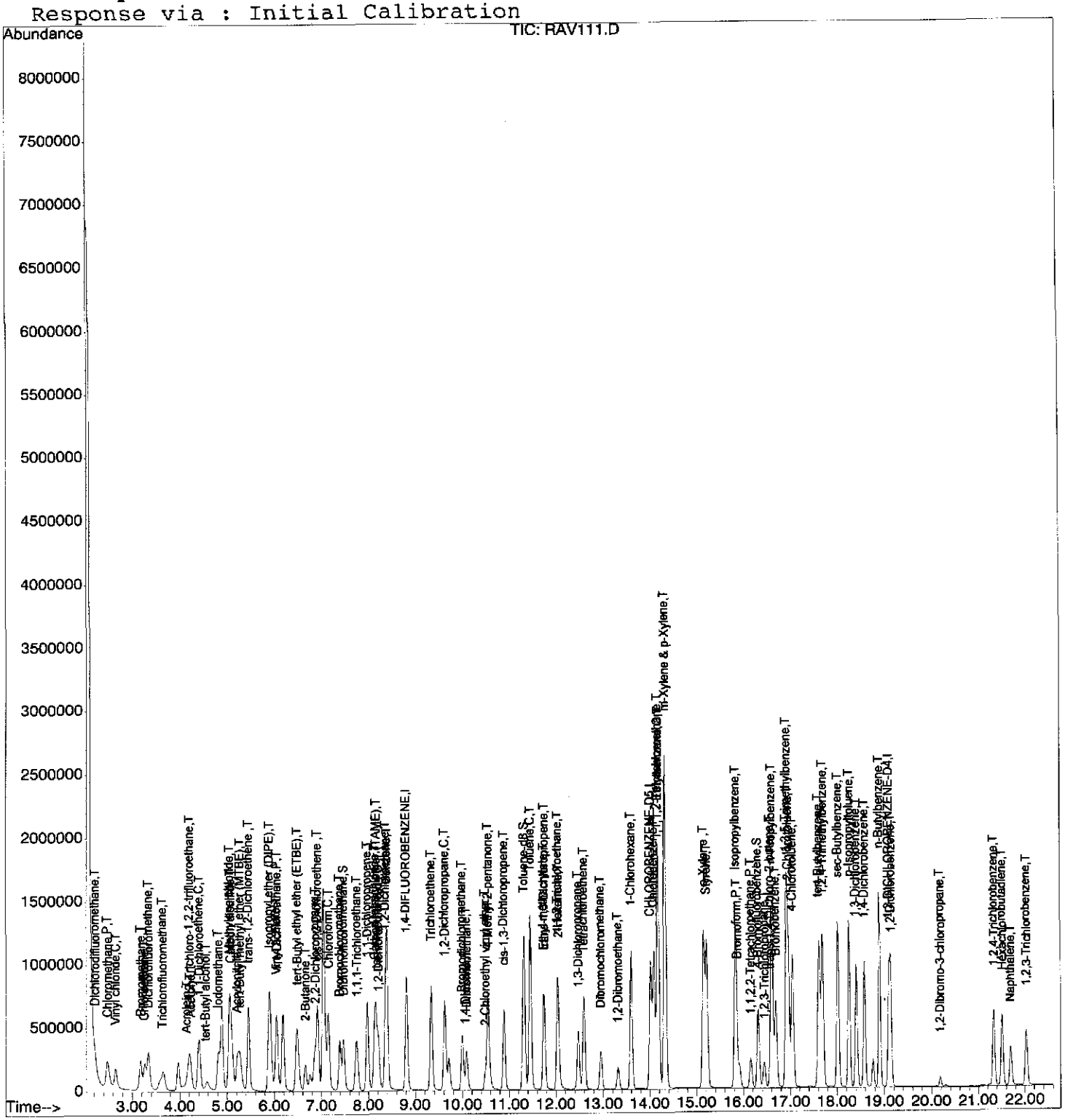
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV111.D
Acq On : 7 Jan 2011 6:14 am
Sample : VO01A06C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 7 6:36 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



2176A

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV209.D
Acq On : 11 Jan 2011 1:12 pm
Sample : VO01A12B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 11 13:38 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1389333	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1210015	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	405564	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	404949	9.73	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	97.30%	
40) 1,2-Dichloroethane-d4	8.20	65	319145	9.80	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.00%	
55) Toluene-d8	11.29	98	1562536	9.91	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.10%	
76) 4-Bromofluorobenzene	16.30	95	501265	10.90	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	109.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RAV209.D VO01L11.M Tue Jan 11 13:38:53 2011

2176B

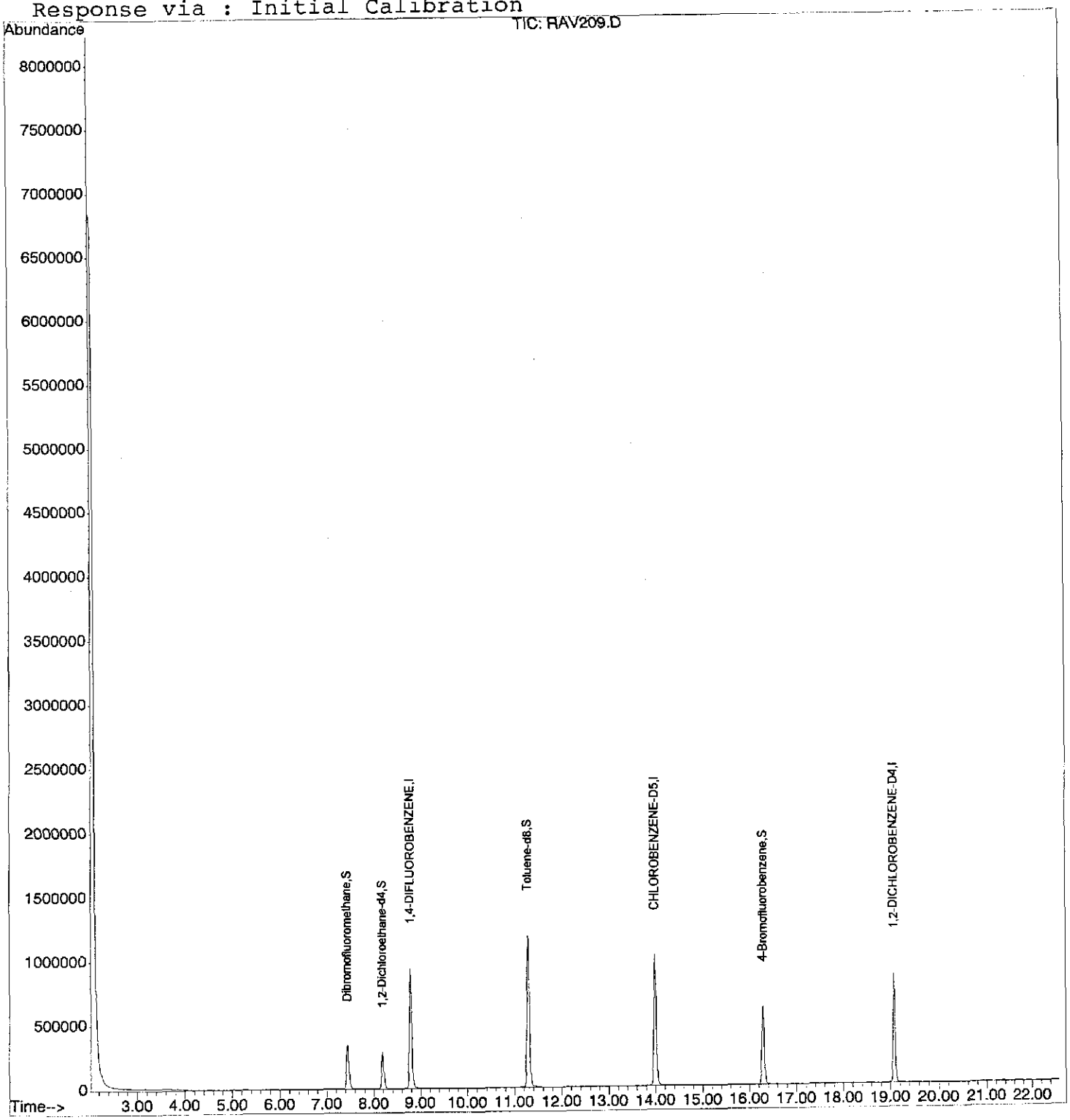
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV209.D
Acq On : 11 Jan 2011 1:12 pm
Sample : VO01A12B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Jan 11 13:38 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV206.D
Acq On : 11 Jan 2011 11:33 am
Sample : VO01A12L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:56 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1374899	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1197277	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	413278	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	395919	9.61	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.10%	
40) 1,2-Dichloroethane-d4	8.20	65	305675	9.49	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	94.90%	
55) Toluene-d8	11.30	98	1506172	9.66	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.60%	
76) 4-Bromofluorobenzene	16.30	95	493821	10.54	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.40%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	246872	10.26	ug/l	99
4) Chloromethane	2.47	50	504200	10.72	ug/l	100
5) Vinyl chloride	2.65	62	420173	10.47	ug/l	99
6) Bromomethane	3.16	94	324175	10.86	ug/l	100
7) Chloroethane	3.25	64	315669	10.13	ug/l	99
8) Dichlorofluoromethane	3.33	67	807047	10.02	ug/l	100
9) Trichlorofluoromethane	3.64	101	395617	8.65	ug/l	99
11) Acrolein	4.13	56	69182	31.23	ug/l #	65
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	222799	10.17	ug/l	99
13) Acetone	4.21	43	265833	49.01	ug/l	100
14) 1,1-Dichloroethene	4.39	61	630767	9.97	ug/l	99
15) tert-Butyl alcohol	4.53	59	84204	41.75	ug/l	100
17) Iodomethane	4.81	142	612689	9.19	ug/l	99
19) Methylene chloride	5.03	49	617844	9.38	ug/l	98
20) Carbon disulfide	5.07	76	1583228	9.66	ug/l	100
21) Acrylonitrile	5.21	53	364436	50.76	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	596364	9.54	ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	714302	10.07	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1813565	10.43	ug/l	99
25) Vinyl acetate	6.03	43	477550	7.48	ug/l	99
26) 1,1-Dichloroethane	6.03	63	911204	10.49	ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	1021156	9.86	ug/l	99
29) 2-Butanone	6.64	43	510794	50.30	ug/l	97
30) 2,2-Dichloropropane	6.85	77	541311	10.34	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	531962	10.45	ug/l	99
32) Chloroform	7.13	83	767579	10.24	ug/l	99
33) Bromochloromethane	7.37	49	380911	10.13	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV206.D
Acq On : 11 Jan 2011 11:33 am
Sample : VO01A12L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:56 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	566447	10.42 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	155970	10.16 ug/l	97
42) 1,1-Dichloropropene	7.96	110	232200	10.10 ug/l	99
43) Carbon tetrachloride	8.12	119	457806	10.11 ug/l	99
44) 1,2-Dichloroethane	8.34	62	408050	10.17 ug/l	100
45) Benzene	8.37	78	1950605	10.46 ug/l	99
46) Trichloroethene	9.32	130	514711	10.41 ug/l	99
48) 1,2-Dichloropropane	9.60	63	542954	10.56 ug/l	96
49) 1,4-Dioxane	10.03	88	29499	181.52 ug/l	95
50) Bromodichloromethane	9.97	83	563205	10.23 ug/l	97
51) Dibromomethane	10.07	93	191352	9.72 ug/l	99
52) 2-Chloroethyl vinyl ether	10.47	63	116937	9.18 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1302331	49.40 ug/l	98
54) cis-1,3-Dichloropropene	10.87	75	735639	10.58 ug/l	99
56) Toluene	11.44	91	2017489	10.59 ug/l	100
57) Ethyl methacrylate	11.72	69	372677	10.04 ug/l	99
58) trans-1,3-Dichloropropene	11.73	75	511181	10.43 ug/l	98
59) 2-Hexanone	12.03	43	812443	49.50 ug/l	98
60) 1,1,2-Trichloroethane	12.01	97	277036	10.53 ug/l	98
61) 1,3-Dichloropropane	12.46	76	533232	10.32 ug/l	99
62) Tetrachloroethene	12.57	164	384345	10.33 ug/l	99
63) Dibromochloromethane	12.93	129	328337	10.13 ug/l	100
64) 1,2-Dibromoethane	13.30	107	253337	9.81 ug/l	99
65) 1-Chlorohexane	13.58	91	810813	10.40 ug/l	99
66) Chlorobenzene	14.07	112	1228059	10.78 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	384398	10.47 ug/l	99
68) Ethylbenzene	14.16	91	2284392	10.52 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	3343721	20.96 ug/l	100
70) o-Xylene	15.12	91	1672077	10.74 ug/l	99
71) Styrene	15.19	104	1269531	10.82 ug/l	100
73) Isopropylbenzene	15.82	105	2028757	11.18 ug/l	99
74) Bromoform	15.84	173	160384	10.49 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	301841	10.20 ug/l	100
77) 1,2,3-Trichloropropane	16.42	110	71781	9.64 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.56	53	80861	10.58 ug/l	99
79) n-Propylbenzene	16.58	91	2656517	11.02 ug/l	99
80) Bromobenzene	16.67	156	407844	10.75 ug/l	99
81) 1,3,5-Trimethylbenzene	16.90	105	1586455	11.11 ug/l	99
82) 2-Chlorotoluene	16.94	91	1658388	11.31 ug/l	96
83) 4-Chlorotoluene	17.03	91	1370325	10.85 ug/l	94
84) tert-Butylbenzene	17.61	134	365592	11.27 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV206.D
Acq On : 11 Jan 2011 11:33 am
Sample : VO01A12L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:56 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.66	105	1569925	11.12 ug/l	98
86) sec-Butylbenzene	18.01	105	2169203	10.90 ug/l	99
87) p-Isopropyltoluene	18.24	119	1665805	10.97 ug/l	99
88) 1,3-Dichlorobenzene	18.40	146	841458	10.98 ug/l	100
89) 1,4-Dichlorobenzene	18.57	146	792002	10.76 ug/l	100
90) n-Butylbenzene	18.89	91	1729887	10.86 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	678791	10.90 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	36296	9.84 ug/l	96
93) 1,2,4-Trichlorobenzene	21.32	180	409588	10.81 ug/l	99
94) Hexachlorobutadiene	21.50	225	259721	10.74 ug/l	98
95) Naphthalene	21.69	128	502969	11.47 ug/l	99
96) 1,2,3-Trichlorobenzene	22.01	180	317937	10.50 ug/l	99

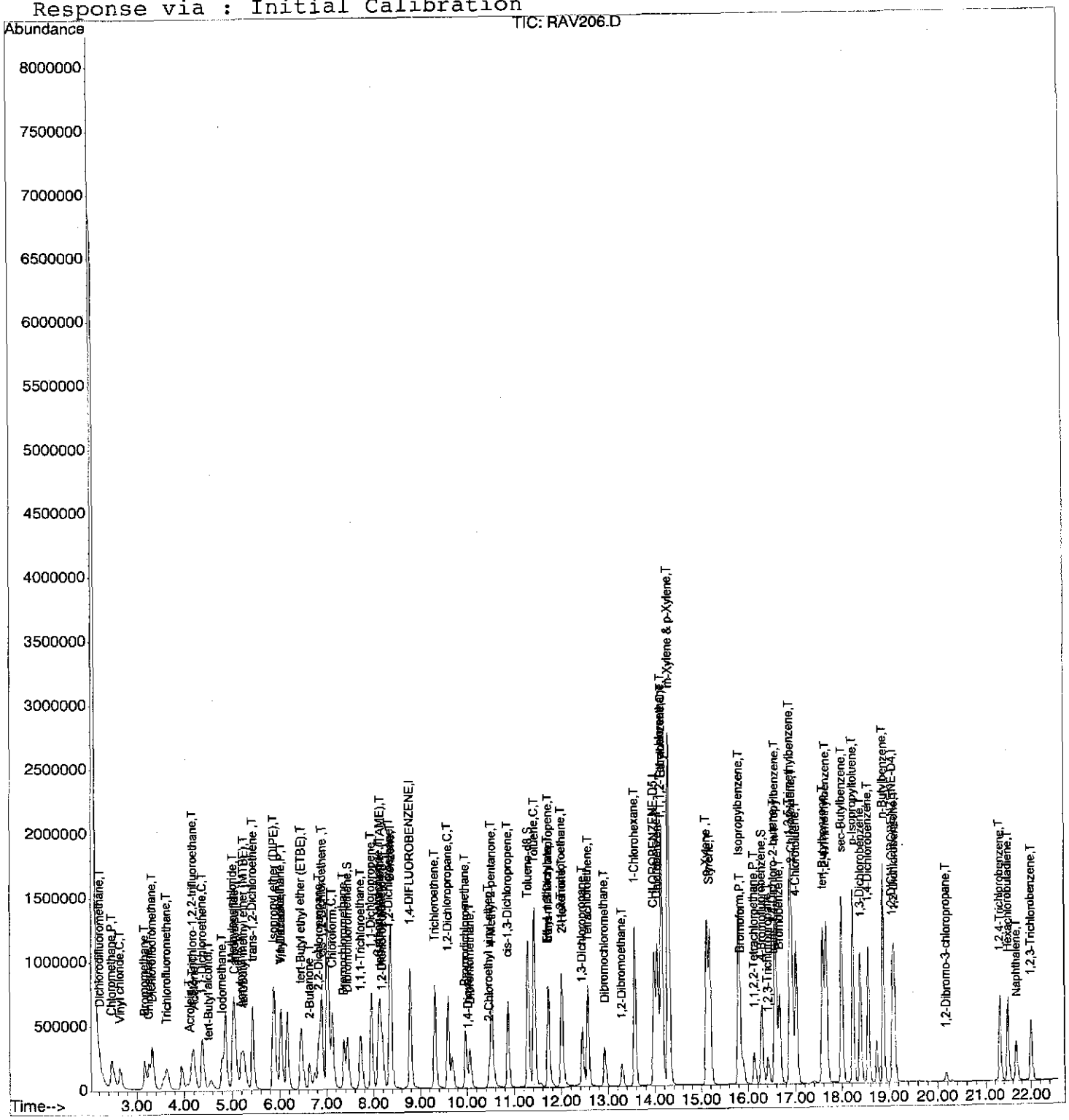
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV206.D
Acq On : 11 Jan 2011 11:33 am
Sample : VO01A12L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:56 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV207.D
Acq On : 11 Jan 2011 12:05 pm
Sample : VO01A12C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 12:27 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1373164	10.00 ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1207598	10.00 ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	425183	10.00 ug/l	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane	7.46	111	407961	9.92 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 99.20%	
40) 1,2-Dichloroethane-d4	8.20	65	319104	9.92 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 99.20%	
55) Toluene-d8	11.29	98	1561904	9.93 ug/l	-0.03
Spiked Amount 10.000			Recovery	= 99.30%	
76) 4-Bromofluorobenzene	16.29	95	512156	10.62 ug/l	-0.03
Spiked Amount 10.000			Recovery	= 106.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	244779	10.19 ug/l	99
4) Chloromethane	2.49	50	493336	10.51 ug/l	100
5) Vinyl chloride	2.65	62	409248	10.21 ug/l	99
6) Bromomethane	3.17	94	319347	10.71 ug/l	100
7) Chloroethane	3.25	64	318301	10.23 ug/l	99
8) Dichlorofluoromethane	3.34	67	801208	9.96 ug/l	100
9) Trichlorofluoromethane	3.64	101	381974	8.37 ug/l	100
11) Acrolein	4.13	56	71577	32.35 ug/l #	45
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	220957	10.10 ug/l	98
13) Acetone	4.22	43	262995	48.55 ug/l	98
14) 1,1-Dichloroethene	4.39	61	624434	9.88 ug/l	99
15) tert-Butyl alcohol	4.53	59	88860	44.12 ug/l	97
17) Iodomethane	4.81	142	622385	9.35 ug/l	99
19) Methylene chloride	5.03	49	621766	9.45 ug/l	98
20) Carbon disulfide	5.07	76	1668344	10.19 ug/l	100
21) Acrylonitrile	5.21	53	365510	50.98 ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	608906	9.75 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	727318	10.27 ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1836013	10.57 ug/l	99
25) Vinyl acetate	6.04	43	510414	8.00 ug/l	97
26) 1,1-Dichloroethane	6.04	63	936635	10.80 ug/l	100
28) tert-Butyl ethyl ether (ET	6.47	59	1027836	9.94 ug/l	99
29) 2-Butanone	6.64	43	514580	50.73 ug/l	97
30) 2,2-Dichloropropane	6.85	77	538053	10.29 ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	532232	10.46 ug/l	99
32) Chloroform	7.13	83	776629	10.37 ug/l	99
33) Bromochloromethane	7.37	49	390894	10.40 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV207.D
Acq On : 11 Jan 2011 12:05 pm
Sample : VO01A12C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 12:27 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	562980	10.37 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	153199	9.99 ug/l	99
42) 1,1-Dichloropropene	7.96	110	233966	10.09 ug/l	100
43) Carbon tetrachloride	8.12	119	451369	9.88 ug/l	98
44) 1,2-Dichloroethane	8.34	62	420286	10.38 ug/l	98
45) Benzene	8.37	78	2000005	10.64 ug/l	99
46) Trichloroethene	9.32	130	514701	10.33 ug/l	99
48) 1,2-Dichloropropane	9.60	63	551856	10.64 ug/l	96
49) 1,4-Dioxane	10.03	88	27897	170.19 ug/l	88
50) Bromodichloromethane	9.97	83	578527	10.42 ug/l	99
51) Dibromomethane	10.08	93	195163	9.83 ug/l	99
52) 2-Chloroethyl vinyl ether	10.48	63	116729	9.08 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1325622	49.85 ug/l	99
54) cis-1,3-Dichloropropene	10.87	75	743454	10.60 ug/l	99
56) Toluene	11.44	91	2043918	10.64 ug/l	100
57) Ethyl methacrylate	11.72	69	383594	10.25 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	519724	10.52 ug/l	99
59) 2-Hexanone	12.03	43	817711	49.40 ug/l	100
60) 1,1,2-Trichloroethane	12.01	97	278684	10.50 ug/l	99
61) 1,3-Dichloropropane	12.46	76	539289	10.35 ug/l	99
62) Tetrachloroethene	12.58	164	386404	10.30 ug/l	99
63) Dibromochloromethane	12.93	129	336422	10.30 ug/l	100
64) 1,2-Dibromoethane	13.30	107	259124	9.94 ug/l	99
65) 1-Chlorohexane	13.58	91	800640	10.18 ug/l	100
66) Chlorobenzene	14.07	112	1234261	10.74 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	393371	10.63 ug/l	99
68) Ethylbenzene	14.16	91	2343504	10.70 ug/l	100
69) m-Xylene & p-Xylene	14.31	91	3388106	21.06 ug/l	100
70) o-Xylene	15.12	91	1709107	10.88 ug/l	99
71) Styrene	15.20	104	1312645	11.09 ug/l	99
73) Isopropylbenzene	15.82	105	2061177	11.04 ug/l	100
74) Bromoform	15.85	173	163266	10.38 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	310993	10.21 ug/l	100
77) 1,2,3-Trichloropropane	16.42	110	74323	9.70 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.56	53	83518	10.63 ug/l	99
79) n-Propylbenzene	16.59	91	2717835	10.96 ug/l	99
80) Bromobenzene	16.67	156	418166	10.71 ug/l	100
81) 1,3,5-Trimethylbenzene	16.90	105	1623803	11.05 ug/l	99
82) 2-Chlorotoluene	16.93	91	1730159	11.46 ug/l	97
83) 4-Chlorotoluene	17.03	91	1371666	10.56 ug/l	94
84) tert-Butylbenzene	17.59	134	375075	11.24 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV207.D
Acq On : 11 Jan 2011 12:05 pm
Sample : VO01A12C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 12:27 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1586983	10.93 ug/l	98
86) sec-Butylbenzene	18.01	105	2207423	10.78 ug/l	99
87) p-Isopropyltoluene	18.24	119	1689701	10.81 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	858083	10.88 ug/l	100
89) 1,4-Dichlorobenzene	18.57	146	825228	10.89 ug/l	100
90) n-Butylbenzene	18.88	91	1772237	10.82 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	696542	10.88 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.18	157	38301	10.09 ug/l	99
93) 1,2,4-Trichlorobenzene	21.32	180	413560	10.61 ug/l	99
94) Hexachlorobutadiene	21.50	225	264040	10.61 ug/l	97
95) Naphthalene	21.68	128	516255	11.44 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	324553	10.42 ug/l	97

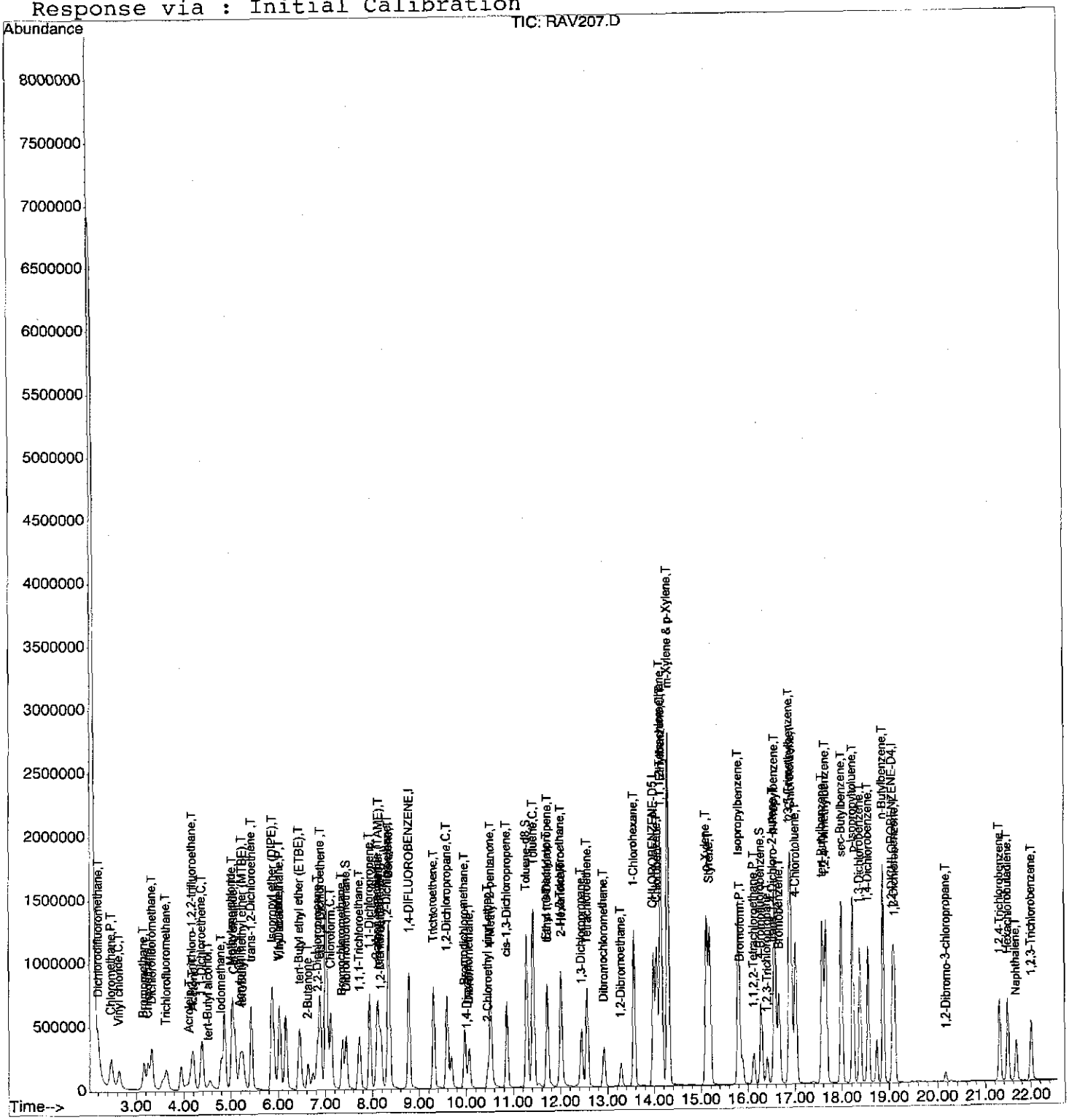
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV207.D
Acq On : 11 Jan 2011 12:05 pm
Sample : VO01A12C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 12:27 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV211.D
Acq On : 11 Jan 2011 2:16 pm
Sample : 11A027-08G 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:39 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1312380	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.00	117	1141372	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	398012	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	382124	9.72	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.20%	
40) 1,2-Dichloroethane-d4	8.21	65	292467	9.51	ug/l	0.00
Spiked Amount 10.000			Recovery	=	95.10%	
55) Toluene-d8	11.30	98	1477276	9.94	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.40%	
76) 4-Bromofluorobenzene	16.30	95	481365	10.67	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	106.70%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	269639	11.74	ug/l	98
4) Chloromethane	2.50	50	517342	11.53	ug/l	100
5) Vinyl chloride	2.66	62	428735	11.19	ug/l	100
6) Bromomethane	3.18	94	334460	11.74	ug/l	99
7) Chloroethane	3.25	64	344293	11.58	ug/l	100
8) Dichlorofluoromethane	3.34	67	774028	10.07	ug/l	100
9) Trichlorofluoromethane	3.64	101	430233	9.86	ug/l	98
11) Acrolein	4.14	56	70329	33.26	ug/l #	52
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	217949	10.43	ug/l	100
13) Acetone	4.23	43	239613	46.28	ug/l	96
14) 1,1-Dichloroethene	4.39	61	621418	10.29	ug/l	99
15) tert-Butyl alcohol	4.53	59	91009	47.28	ug/l	97
17) Iodomethane	4.81	142	599126	9.41	ug/l	100
19) Methylene chloride	5.04	49	605932	9.64	ug/l	99
20) Carbon disulfide	5.07	76	1340899	8.59	ug/l	99
21) Acrylonitrile	5.21	53	349858	51.06	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	567899	9.52	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	704405	10.41	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1740962	10.49	ug/l	100
25) Vinyl acetate	6.04	43	531402	8.72	ug/l	98
26) 1,1-Dichloroethane	6.04	63	893085	10.77	ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	966828	9.78	ug/l	100
29) 2-Butanone	6.64	43	489018	50.44	ug/l	99
30) 2,2-Dichloropropane	6.85	77	533130	10.67	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	551356	11.34	ug/l	99
32) Chloroform	7.13	83	751955	10.51	ug/l	100
33) Bromochloromethane	7.38	49	369182	10.28	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV211.D
Acq On : 11 Jan 2011 2:16 pm
Sample : 11A027-08G 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:39 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	558724	10.77 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	145530	9.93 ug/l	97
42) 1,1-Dichloropropene	7.97	110	226943	10.35 ug/l	99
43) Carbon tetrachloride	8.12	119	454275	10.52 ug/l	98
44) 1,2-Dichloroethane	8.34	62	390585	10.21 ug/l	99
45) Benzene	8.37	78	1884040	10.60 ug/l	99
46) Trichloroethene	9.32	130	665085	14.12 ug/l	99
48) 1,2-Dichloropropane	9.60	63	526606	10.74 ug/l	98
49) 1,4-Dioxane	10.05	88	30157	194.66 ug/l	92
50) Bromodichloromethane	9.99	83	544593	10.38 ug/l	97
51) Dibromomethane	10.07	93	180684	9.63 ug/l	100
53) 4-Methyl-2-pentanone	10.53	43	1178306	46.88 ug/l	96
54) cis-1,3-Dichloropropene	10.87	75	685314	10.33 ug/l	100
56) Toluene	11.44	91	1968198	10.84 ug/l	99
57) Ethyl methacrylate	11.72	69	355152	10.04 ug/l	98
58) trans-1,3-Dichloropropene	11.73	75	489354	10.48 ug/l	98
59) 2-Hexanone	12.03	43	762928	48.76 ug/l	100
60) 1,1,2-Trichloroethane	12.01	97	261493	10.43 ug/l	100
61) 1,3-Dichloropropane	12.46	76	513530	10.43 ug/l	99
62) Tetrachloroethene	12.58	164	382736	10.79 ug/l	98
63) Dibromochloromethane	12.95	129	314577	10.19 ug/l	99
64) 1,2-Dibromoethane	13.30	107	241729	9.82 ug/l	99
65) 1-Chlorohexane	13.58	91	800948	10.78 ug/l	100
66) Chlorobenzene	14.07	112	1182241	10.88 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	370963	10.60 ug/l	99
68) Ethylbenzene	14.17	91	2231700	10.78 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	3302320	21.72 ug/l	99
70) o-Xylene	15.13	91	1618949	10.91 ug/l	99
71) Styrene	15.19	104	1180277	10.55 ug/l	99
73) Isopropylbenzene	15.82	105	1969872	11.27 ug/l	99
74) Bromoform	15.85	173	152757	10.37 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	293417	10.30 ug/l	100
77) 1,2,3-Trichloropropane	16.44	110	69904	9.75 ug/l	95
78) trans-1,4-Dichloro-2-buten	16.56	53	79897	10.86 ug/l	99
79) n-Propylbenzene	16.58	91	2631427	11.34 ug/l	99
80) Bromobenzene	16.67	156	400048	10.94 ug/l	99
81) 1,3,5-Trimethylbenzene	16.90	105	1552226	11.28 ug/l	99
82) 2-Chlorotoluene	16.94	91	1613095	11.42 ug/l	96
83) 4-Chlorotoluene	17.03	91	1358418	11.17 ug/l	94
84) tert-Butylbenzene	17.61	134	359500	11.51 ug/l	95
85) 1,2,4-Trimethylbenzene	17.68	105	1511943	11.12 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV211.D
Acq On : 11 Jan 2011 2:16 pm
Sample : 11A027-08G 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:39 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) sec-Butylbenzene	18.01	105	2160348	11.27 ug/l	99
87) p-Isopropyltoluene	18.24	119	1648852	11.27 ug/l	99
88) 1,3-Dichlorobenzene	18.40	146	817978	11.08 ug/l	99
89) 1,4-Dichlorobenzene	18.57	146	773376	10.91 ug/l	100
90) n-Butylbenzene	18.89	91	1725346	11.25 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	659925	11.01 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	35528	10.00 ug/l	98
93) 1,2,4-Trichlorobenzene	21.32	180	399649	10.96 ug/l	98
94) Hexachlorobutadiene	21.50	225	260408	11.18 ug/l	98
95) Naphthalene	21.69	128	477905	11.32 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	306192	10.50 ug/l	98

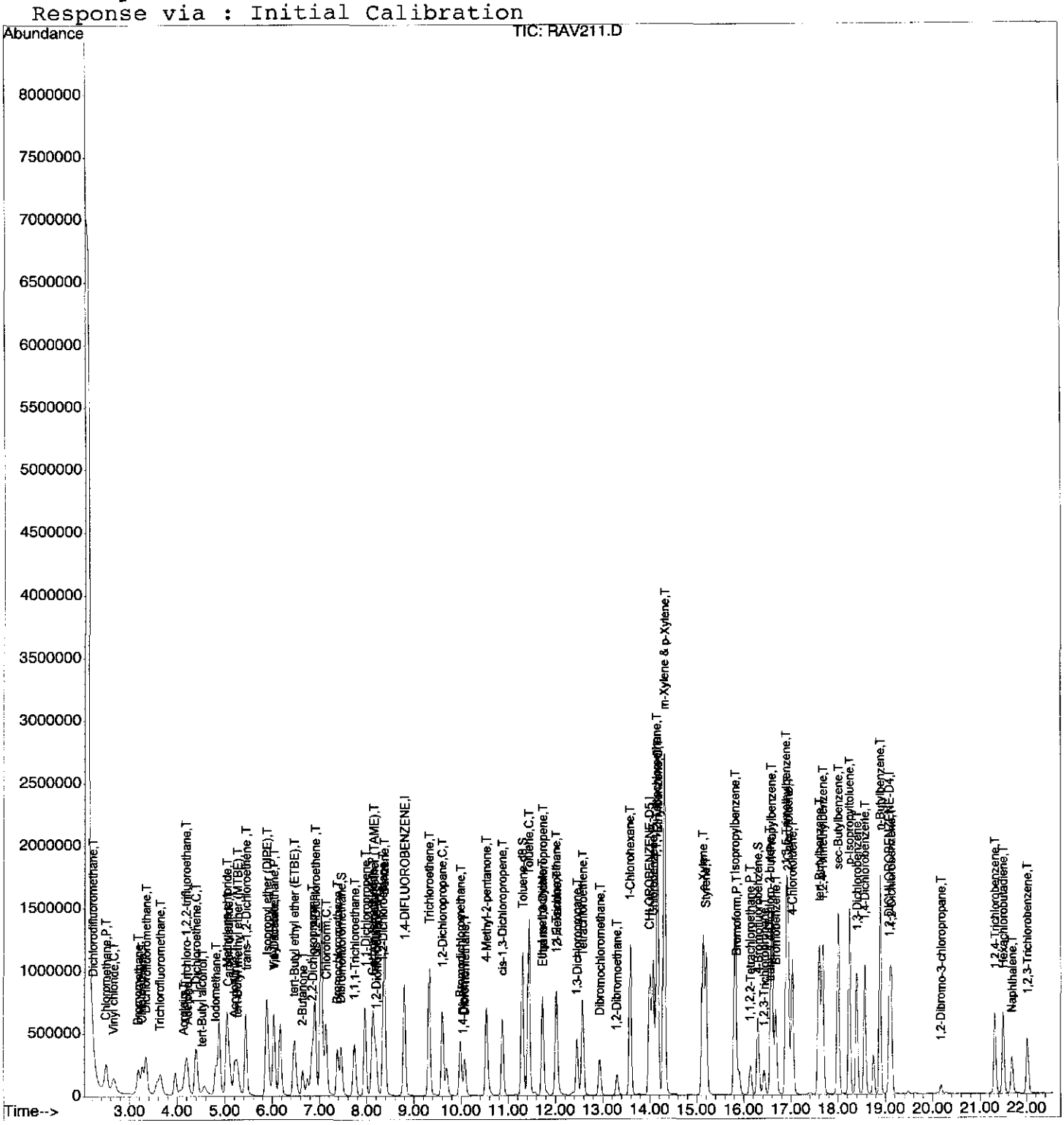
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV211.D
Acq On : 11 Jan 2011 2:16 pm
Sample : 11A027-08G 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 14:39 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV212.D
Acq On : 11 Jan 2011 2:49 pm
Sample : 11A027-08H 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 15:11 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1279978	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1115847	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	401143	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	376875	9.83	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.30%	
40) 1,2-Dichloroethane-d4	8.20	65	289251	9.64	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	96.40%	
55) Toluene-d8	11.29	98	1426748	9.82	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.20%	
76) 4-Bromofluorobenzene	16.29	95	467791	10.28	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	102.80%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	246537	11.01	ug/l	98
4) Chloromethane	2.50	50	478107	10.92	ug/l	100
5) Vinyl chloride	2.66	62	397092	10.62	ug/l	100
6) Bromomethane	3.17	94	308843	11.11	ug/l	99
7) Chloroethane	3.26	64	315087	10.86	ug/l	100
8) Dichlorofluoromethane	3.33	67	748941	9.99	ug/l	100
9) Trichlorofluoromethane	3.63	101	391013	9.19	ug/l	100
11) Acrolein	4.13	56	70748	34.30	ug/l #	53
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	211438	10.37	ug/l	98
13) Acetone	4.22	43	246793	48.88	ug/l	99
14) 1,1-Dichloroethene	4.38	61	606648	10.30	ug/l	99
15) tert-Butyl alcohol	4.51	59	94181	50.17	ug/l	96
17) Iodomethane	4.79	142	586837	9.45	ug/l	99
19) Methylene chloride	5.03	49	595921	9.72	ug/l	99
20) Carbon disulfide	5.06	76	1518471	9.95	ug/l	100
21) Acrylonitrile	5.19	53	357966	53.56	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	577644	9.93	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	693397	10.50	ug/l	99
24) Isopropyl ether (DIPE)	5.88	45	1729704	10.68	ug/l	100
25) Vinyl acetate	6.02	43	494681	8.32	ug/l	98
26) 1,1-Dichloroethane	6.02	63	862731	10.67	ug/l	100
28) tert-Butyl ethyl ether (ET	6.47	59	980708	10.17	ug/l	99
29) 2-Butanone	6.63	43	501773	53.07	ug/l	99
30) 2,2-Dichloropropane	6.84	77	518924	10.65	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	548973	11.58	ug/l	99
32) Chloroform	7.13	83	736343	10.55	ug/l	99
33) Bromochloromethane	7.37	49	374415	10.69	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV212.D
Acq On : 11 Jan 2011 2:49 pm
Sample : 11A027-08H 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 15:11 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.72	97	536367	10.60 ug/l	99
39) tert-Amyl methyl ether (TA	8.14	87	148857	10.41 ug/l	98
42) 1,1-Dichloropropene	7.96	110	219421	10.24 ug/l	99
43) Carbon tetrachloride	8.11	119	437794	10.37 ug/l	98
44) 1,2-Dichloroethane	8.33	62	395073	10.56 ug/l	100
45) Benzene	8.38	78	1846985	10.63 ug/l	100
46) Trichloroethene	9.32	130	662274	14.38 ug/l	99
48) 1,2-Dichloropropane	9.60	63	510113	10.64 ug/l	97
49) 1,4-Dioxane	10.03	88	31858	210.34 ug/l	99
50) Bromodichloromethane	9.97	83	541528	10.56 ug/l	97
51) Dibromomethane	10.06	93	185991	10.14 ug/l	98
52) 2-Chloroethyl vinyl ether	10.55	63	1563	0.13 ug/l #	1
53) 4-Methyl-2-pentanone	10.54	43	1214213	49.42 ug/l	96
54) cis-1,3-Dichloropropene	10.88	75	693052	10.69 ug/l	99
56) Toluene	11.44	91	1914530	10.79 ug/l	100
57) Ethyl methacrylate	11.72	69	369105	10.67 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	492488	10.78 ug/l	99
59) 2-Hexanone	12.03	43	796272	52.06 ug/l	99
60) 1,1,2-Trichloroethane	12.02	97	269072	10.98 ug/l	99
61) 1,3-Dichloropropane	12.46	76	515761	10.71 ug/l	99
62) Tetrachloroethene	12.58	164	371883	10.73 ug/l	97
63) Dibromochloromethane	12.93	129	317592	10.52 ug/l	100
64) 1,2-Dibromoethane	13.30	107	246476	10.24 ug/l	98
65) 1-Chlorohexane	13.58	91	777875	10.71 ug/l	99
66) Chlorobenzene	14.07	112	1161933	10.94 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.15	131	364289	10.65 ug/l	99
68) Ethylbenzene	14.16	91	2164471	10.70 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	3208702	21.59 ug/l	99
70) o-Xylene	15.12	91	1597873	11.01 ug/l	99
71) Styrene	15.20	104	1171539	10.71 ug/l	100
73) Isopropylbenzene	15.82	105	1940806	11.02 ug/l	99
74) Bromoform	15.85	173	155934	10.51 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.14	83	297177	10.35 ug/l	99
77) 1,2,3-Trichloropropane	16.42	110	70969	9.82 ug/l	98
78) trans-1,4-Dichloro-2-buten	16.56	53	79303	10.69 ug/l	99
79) n-Propylbenzene	16.59	91	2571257	10.99 ug/l	100
80) Bromobenzene	16.68	156	391725	10.63 ug/l	99
81) 1,3,5-Trimethylbenzene	16.90	105	1521241	10.97 ug/l	99
82) 2-Chlorotoluene	16.94	91	1605122	11.27 ug/l	96
83) 4-Chlorotoluene	17.03	91	1297043	10.58 ug/l	95
84) tert-Butylbenzene	17.59	134	354731	11.26 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV212.D
Acq On : 11 Jan 2011 2:49 pm
Sample : 11A027-08H 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 15:11 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85)	1,2,4-Trimethylbenzene	17.67	105	1498899	10.94 ug/l	98
86)	sec-Butylbenzene	18.01	105	2106967	10.91 ug/l	99
87)	p-Isopropyltoluene	18.24	119	1638344	11.11 ug/l	99
88)	1,3-Dichlorobenzene	18.39	146	816257	10.97 ug/l	99
89)	1,4-Dichlorobenzene	18.57	146	783467	10.96 ug/l	99
90)	n-Butylbenzene	18.90	91	1699123	10.99 ug/l	99
91)	1,2-Dichlorobenzene	19.13	146	662639	10.97 ug/l	99
92)	1,2-Dibromo-3-chloropropan	20.18	157	36950	10.32 ug/l	97
93)	1,2,4-Trichlorobenzene	21.32	180	404408	11.00 ug/l	99
94)	Hexachlorobutadiene	21.50	225	257335	10.96 ug/l	98
95)	Naphthalene	21.68	128	494193	11.61 ug/l	99
96)	1,2,3-Trichlorobenzene	22.02	180	314307	10.69 ug/l	98

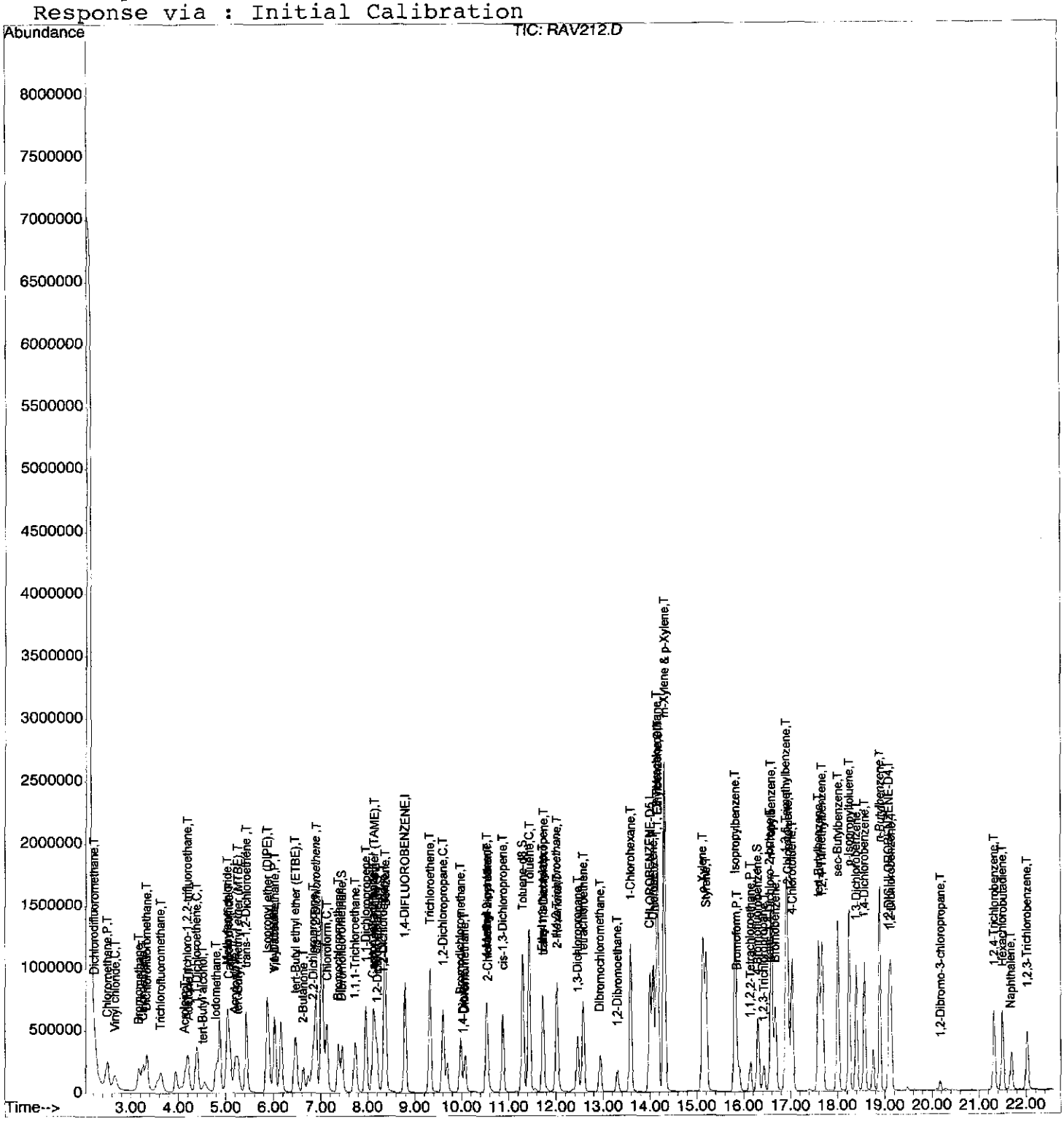
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV212.D
Acq On : 11 Jan 2011 2:49 pm
Sample : 11A027-08H 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Jan 11 15:11 2011

Vial: 10
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RLV327
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 12/11/10
BFB Injection Time : 09:15
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.73
75	30.0 - 60.0% of mass 95	43.26
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.83
175	5.0 - 9.0% of mass 174	5.60(7.5)1
176	95.0 - 101.0% of mass 174	73.56(98.3)1
177	5.0 - 9.0% of mass 176	4.84(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V001L111	RLV328	12/11/10	09:56
2	VSTD0.5	V001L112	RLV329	12/11/10	10:28
3	VSTD01	V001L113	RLV330	12/11/10	11:02
4	VSTD02	V001L114	RLV331	12/11/10	11:34
5	VSTD05	V001L115	RLV332	12/11/10	12:08
6	VSTD010	V001L116	RLV333	12/11/10	12:40
7	VSTD020	V001L117	RLV334	12/11/10	13:12
8	VSTD030	V001L118	RLV335	12/11/10	13:47
9	VSTD050	V001L1110	RLV337	12/11/10	14:51
10	VSTD100	V001L1111	RLV338	12/11/10	15:24
11	VSTD010	IV001L1101	RLV341	12/11/10	17:01

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	0.193	0.174	0.188	0.178	0.173	0.190	0.185	0.168	0.159	0.142	0.175	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.413	0.363	0.343	0.326	0.366	0.362	0.330	0.312	0.264	0.342	12.16	2.4787
	5	Vinyl chloride	0.356	0.307	0.320	0.288	0.268	0.277	0.227	------	------	------	0.292	14.06	2.6504
	6	Bromomethane	0.263	0.204	0.228	0.219	0.208	0.236	0.230	0.213	0.201	0.170	0.217	11.37	3.1701
	7	Chloroethane	0.271	0.249	0.235	0.221	0.218	0.241	0.235	0.218	0.208	0.169	0.227	11.96	3.2515
	8	Dichlorofluoromethane	0.646	0.578	0.618	0.617	0.612	0.602	0.581	0.593	0.554	0.459	0.586	8.78	3.3358
	9	Trichlorofluoromethane	0.383	0.333	0.344	0.330	0.326	0.350	0.354	0.333	0.309	0.263	0.332	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.016	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.162	0.159	0.173	0.169	0.167	0.168	0.158	0.164	0.147	0.126	0.159	8.56	4.1955
5	13	Acetone	------	------	0.041	0.043	0.038	0.040	0.041	0.042	0.037	0.034	0.039	7.47	4.2295
	14	1,1-Dichloroethene	0.501	0.451	0.481	0.494	0.474	0.472	0.459	0.471	0.434	0.366	0.460	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	0.014	0.014	0.015	0.014	0.016	0.016	0.014	0.013	0.015	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.494	0.458	0.495	0.509	0.504	0.508	0.493	0.507	0.473	0.408	0.485	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	0.559	0.591	0.525	0.507	0.464	0.465	0.449	0.453	0.418	0.358	0.479	14.28	5.0418
	20	Carbon disulfide	------	0.652	1.142	1.092	1.138	1.339	1.222	1.227	1.160	------	1.122	18.20	5.0729
5	21	Acrylonitrile	------	------	0.054	0.054	0.051	0.053	0.054	0.056	0.050	0.046	0.052	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	0.448	0.429	0.469	0.483	0.470	0.471	0.472	0.480	0.439	0.386	0.455	6.60	5.2756
	23	trans-1,2-Dichloroethene	0.545	0.498	0.529	0.541	0.541	0.526	0.525	0.536	0.497	0.421	0.516	7.26	5.4443
	24	Isopropyl ether (DIPE)	1.261	1.252	1.297	1.324	1.305	1.313	1.290	1.337	1.209	1.065	1.265	6.33	5.8970
	25	Vinyl acetate	------	0.509	0.497	0.448	0.432	0.488	0.505	0.486	0.437	0.381	0.465	9.23	6.0446
	26	1,1-Dichloroethane	0.649	0.608	0.660	0.665	0.669	0.650	0.633	0.657	0.609	0.518	0.632	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	0.747	0.733	0.786	0.815	0.781	0.783	0.777	0.781	0.709	0.621	0.753	7.38	6.4859
5	29	2-Butanone	0.078	0.070	0.077	0.075	0.071	0.073	0.078	0.078	0.072	0.066	0.074	5.70	6.6531
	30	2,2-Dichloropropane	0.436	0.391	0.419	0.413	0.402	0.384	0.372	0.377	0.333	0.278	0.381	12.09	6.8573
	31	cis-1,2-Dichloroethene	0.365	0.368	0.383	0.387	0.384	0.386	0.375	0.388	0.360	0.308	0.370	6.52	6.9165
	32	Chloroform	0.564	0.526	0.554	0.572	0.564	0.556	0.554	0.569	0.531	0.463	0.545	5.99	7.1444
	33	Bromochloromethane	0.268	0.256	0.282	0.288	0.284	0.287	0.281	0.292	0.266	0.232	0.274	6.81	7.3885
	34	Dibromofluoromethane	------	------	0.301	0.262	0.308	0.319	0.325	0.325	0.293	0.265	0.300	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	0.408	0.386	0.416	0.413	0.415	0.402	0.399	0.410	0.374	0.327	0.395	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	0.102	0.105	0.116	0.120	0.120	0.117	0.120	0.120	0.106	0.090	0.112	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	0.241	0.206	0.237	0.246	0.256	0.252	0.228	0.208	0.234	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	0.221	0.197	0.201	0.204	0.202	0.193	0.183	0.192	0.176	0.150	0.192	9.97	7.9774
	43	Carbon tetrachloride	0.417	0.370	0.389	0.399	0.400	0.384	0.366	0.388	0.359	0.310	0.378	7.86	8.1342
	44	1,2-Dichloroethane	0.329	0.314	0.350	0.358	0.352	0.348	0.339	0.353	0.329	0.281	0.335	6.97	8.3577
	45	Benzene	1.688	1.530	1.642	1.642	1.615	1.592	1.532	1.590	1.496	1.242	1.557	8.06	8.3872
	46	Trichloroethene	0.410	0.394	0.436	0.434	0.432	0.433	0.410	0.431	0.407	0.341	0.413	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	0.432	0.415	0.441	0.460	0.453	0.442	0.431	0.453	0.414	0.356	0.430	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	9.05	10.0511
	50	Bromodichloromethane	0.462	0.434	0.458	0.481	0.481	0.480	0.462	0.492	0.455	0.393	0.460	6.30	9.9986
	51	Dibromomethane	0.156	0.159	0.167	0.175	0.172	0.171	0.165	0.175	0.162	0.141	0.164	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	0.105	0.103	0.107	0.108	0.111	0.115	0.106	0.097	0.106	4.84	10.4883
5	53	4-Methyl-2-pentanone	------	------	0.225	0.227	0.218	0.221	0.228	0.235	0.215	0.191	0.220	6.01	10.5530
	54	cis-1,3-Dichloropropene	0.593	0.551	0.598	0.605	0.603	0.605	0.579	0.617	0.567	0.491	0.581	6.39	10.8938
	55	Toluene-d8	------	------	1.355	1.148	1.343	1.365	1.324	1.350	1.232	------	1.303	6.27	11.3168
	56	Toluene	1.746	1.584	1.691	1.677	1.670	1.623	1.549	1.609	1.509	1.246	1.591	8.81	11.4516
	57	Ethyl methacrylate	------	0.289	0.317	0.323	0.320	0.328	0.317	0.332	0.302	0.262	0.310	7.22	11.7379
	58	trans-1,3-Dichloropropene	0.420	0.365	0.415	0.431	0.431	0.426	0.415	0.441	0.403	0.346	0.409	7.44	11.7504

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5	59	2-Hexanone	------	------	0.142	0.141	0.136	0.138	0.142	0.148	0.132	0.117	0.137	6.85	12.0493
	60	1,1,2-Trichloroethane	0.219	0.212	0.227	0.234	0.231	0.229	0.222	0.232	0.209	0.181	0.220	7.27	12.0286
	61	1,3-Dichloropropane	0.432	0.415	0.434	0.459	0.455	0.448	0.437	0.458	0.416	0.361	0.431	6.84	12.4740
	62	Tetrachloroethene	0.345	0.302	0.323	0.331	0.329	0.317	0.304	0.315	0.296	0.245	0.311	8.80	12.6027
	63	Dibromochloromethane	0.253	0.254	0.268	0.279	0.281	0.286	0.280	0.296	0.272	0.236	0.271	6.68	12.9578
	64	1,2-Dibromoethane	0.213	0.200	0.217	0.226	0.226	0.225	0.220	0.233	0.213	0.185	0.216	6.57	13.3247
	65	1-Chlorohexane	0.726	0.643	0.708	0.693	0.698	0.673	0.629	0.653	0.597	0.491	0.651	10.53	13.6074
	66	Chlorobenzene	0.969	0.923	0.978	1.014	1.006	0.993	0.959	0.994	0.911	0.774	0.952	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	0.333	0.285	0.318	0.316	0.322	0.320	0.309	0.324	0.292	0.246	0.307	8.36	14.1681
	68	Ethylbenzene	1.906	1.740	1.888	1.850	1.892	1.837	1.743	1.827	1.636	------	1.813	4.94	14.1840
2	69	m-Xylene & p-Xylene	1.370	1.293	1.375	1.397	1.380	1.360	1.272	1.326	1.215	------	1.332	4.55	14.3254
	70	o-Xylene	1.357	1.278	1.354	1.396	1.368	1.368	1.273	1.355	1.229	1.028	1.301	8.43	15.1491
	71	Styrene	0.986	0.891	0.980	1.028	1.025	1.054	0.998	1.052	0.970	0.817	0.980	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	4.732	4.356	4.695	4.727	4.630	4.510	4.270	4.517	4.103	3.382	4.392	9.38	15.8342
	74	Bromoform	0.321	0.322	0.370	0.373	0.391	0.391	0.391	0.420	0.383	0.338	0.370	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	0.739	0.720	0.738	0.753	0.738	0.724	0.711	0.757	0.685	0.597	0.716	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	1.053	1.178	1.200	1.191	1.219	1.116	0.981	1.134	7.80	16.3184
	77	1,2,3-Trichloropropane	0.207	0.230	0.194	0.184	0.176	0.172	0.165	0.178	0.158	0.139	0.180	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	0.186	0.185	0.189	0.192	0.190	0.203	0.180	0.154	0.185	7.64	16.5844
	79	n-Propylbenzene	6.204	5.820	6.195	6.202	6.164	5.995	5.718	5.999	5.538	4.482	5.832	9.03	16.6110
	80	Bromobenzene	0.908	0.890	0.928	0.963	0.948	0.942	0.918	0.986	0.911	0.788	0.918	5.85	16.6998
	81	1,3,5-Trimethylbenzene	3.645	3.404	3.739	3.703	3.627	3.548	3.415	3.580	3.261	2.643	3.456	9.31	16.9232
	82	2-Chlorotoluene	3.815	3.635	3.729	3.719	3.598	3.513	3.397	3.781	3.484	2.824	3.549	8.13	16.9572
	83	4-Chlorotoluene	3.230	3.017	3.196	3.224	3.220	3.238	3.115	3.091	2.839	2.389	3.056	8.71	17.0504
	84	tert-Butylbenzene	0.844	0.786	0.828	0.839	0.829	0.802	0.767	0.809	0.733	0.614	0.785	8.82	17.6201
	85	1,2,4-Trimethylbenzene	3.533	3.347	3.577	3.601	3.578	3.567	3.370	3.555	3.294	2.727	3.415	7.81	17.6941
	86	sec-Butylbenzene	5.123	4.786	5.225	5.202	5.174	4.913	4.651	4.871	4.491	3.709	4.814	9.57	18.0196
	87	p-Isopropyltoluene	3.979	3.611	3.929	3.891	3.853	3.819	3.587	3.763	3.474	2.843	3.675	9.11	18.2563
	88	1,3-Dichlorobenzene	1.946	1.796	1.874	1.924	1.942	1.912	1.854	1.947	1.811	1.539	1.854	6.67	18.4161
	89	1,4-Dichlorobenzene	1.830	1.738	1.833	1.848	1.859	1.843	1.789	1.861	1.744	1.473	1.782	6.58	18.5863
	90	n-Butylbenzene	4.300	3.827	4.137	4.049	4.052	3.985	3.791	3.927	3.557	2.906	3.853	10.13	18.9059
	91	1,2-Dichlorobenzene	1.510	1.494	1.568	1.597	1.566	1.560	1.496	1.571	1.451	1.251	1.506	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	0.096	0.091	0.082	0.089	0.092	0.091	0.096	0.087	0.081	0.089	5.97	20.1931
	93	1,2,4-Trichlorobenzene	0.993	0.868	0.958	0.942	0.949	0.933	0.919	0.941	0.881	0.781	0.916	6.51	21.3340
	94	Hexachlorobutadiene	0.611	0.586	0.633	0.604	0.620	0.606	0.570	0.594	0.548	0.478	0.585	7.65	21.5145
	95	Naphthalene	1.080	0.945	1.020	1.018	1.045	1.048	1.105	1.177	1.121	1.049	1.061	6.04	21.7024
	96	1,2,3-Trichlorobenzene	0.837	0.754	0.749	0.743	0.747	0.732	0.717	0.736	0.690	0.623	0.733	7.34	22.0382

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 18.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
20	Carbon disulfide	-0.01823	1.21064	0.9987

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INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	110	99	107	102	99	109	106	96	91	81	6.7	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	121	106	100	95	107	106	96	91	77	8.9	12.16	2.4787
	5	Vinyl chloride	122	105	110	99	92	95	78	------	------	------	10.5	14.06	2.6504
	6	Bromomethane	121	94	105	101	96	109	106	98	93	78	8.3	11.37	3.1701
	7	Chloroethane	119	110	104	97	96	106	104	96	92	74	8.7	11.96	3.2515
	8	Dichlorofluoromethane	110	99	105	105	104	103	99	101	95	78	5.9	8.78	3.3358
	9	Trichlorofluoromethane	115	100	104	99	98	105	107	100	93	79	6.2	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	112	106	106	100	100	94	87	6.3	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	102	100	109	106	105	106	99	103	92	79	6	8.56	4.1955
5	13	Acetone	------	------	105	110	97	103	105	108	95	87	6.4	7.47	4.2295
	14	1,1-Dichloroethene	109	98	105	107	103	103	100	102	94	80	5.7	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	93	93	100	93	107	107	93	87	6.7	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	102	94	102	105	104	105	102	105	98	84	4.8	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	117	123	110	106	97	97	94	95	87	75	11.1	14.28	5.0418
	20	Carbon disulfide	------	84	109	98	97	112	102	102	96	------	6.2	8.7	5.0729
5	21	Acrylonitrile	------	------	104	104	98	102	104	108	96	88	4.8	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	98	94	103	106	103	104	104	105	96	85	5.1	6.60	5.2756
	23	trans-1,2-Dichloroethene	106	97	103	105	105	102	102	104	96	82	5.1	7.26	5.4443
	24	Isopropyl ether (DIPE)	100	99	103	105	103	104	102	106	96	84	4.3	6.33	5.8970
	25	Vinyl acetate	------	109	107	96	93	105	109	105	94	82	7.7	9.23	6.0446
	26	1,1-Dichloroethane	103	96	104	105	106	103	100	104	96	82	5.1	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	99	97	104	108	104	104	103	104	94	82	5.4	7.38	6.4859
5	29	2-Butanone	105	95	104	101	96	99	105	105	97	89	4.6	5.70	6.6531
	30	2,2-Dichloropropane	114	103	110	108	106	101	98	99	87	73	8.5	12.09	6.8573
	31	cis-1,2-Dichloroethene	99	99	104	105	104	104	101	105	97	83	4.4	6.52	6.9165
	32	Chloroform	103	97	102	105	103	102	102	104	97	85	4.3	5.99	7.1444
	33	Bromochloromethane	98	93	103	105	104	105	103	107	97	85	5.3	6.81	7.3885
	34	Dibromofluoromethane	------	------	100	87	103	106	108	108	98	88	6.6	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	103	98	105	105	105	102	101	104	95	83	5	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	91	94	104	107	107	104	107	107	95	80	7.7	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	103	88	101	105	109	108	97	89	6.5	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	115	103	105	106	105	101	95	100	92	78	6.9	9.97	7.9774
	43	Carbon tetrachloride	110	98	103	106	106	102	97	103	95	82	5.7	7.86	8.1342
	44	1,2-Dichloroethane	98	94	104	107	105	104	101	105	98	84	5.3	6.97	8.3577
	45	Benzene	108	98	105	105	104	102	98	102	96	80	5.5	8.06	8.3872
	46	Trichloroethene	99	95	106	105	105	105	99	104	99	83	4.9	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	100	97	103	107	105	103	100	105	96	83	4.8	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	100	100	100	100	200	100	100	14.3	9.05	10.0511
	50	Bromodichloromethane	100	94	100	105	105	104	100	107	99	85	4.3	6.30	9.9986
	51	Dibromomethane	95	97	102	107	105	104	101	107	99	86	4.8	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	99	97	101	102	105	108	100	92	3.5	4.84	10.4883
5	53	4-Methyl-2-pentanone	------	------	102	103	99	100	104	107	98	87	4.1	6.01	10.5530
	54	cis-1,3-Dichloropropene	102	95	103	104	104	104	100	106	98	85	4.7	6.39	10.8938
	55	Toluene-d8	------	------	104	88	103	105	102	104	95	------	4.9	6.27	11.3168
	56	Toluene	110	100	106	105	105	102	97	101	95	78	5.9	8.81	11.4516
	57	Ethyl methacrylate	------	93	102	104	103	106	102	107	97	85	5.5	7.22	11.7379
	58	trans-1,3-Dichloropropene	103	89	101	105	105	104	101	108	99	85	5.6	7.44	11.7504

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5	59	2-Hexanone	------	------	104	103	99	101	104	108	96	85	4.7	6.85	12.0493
	60	1,1,2-Trichloroethane	100	96	103	106	105	104	101	105	95	82	5.2	7.27	12.0286
	61	1,3-Dichloropropane	100	96	101	106	106	104	101	106	97	84	4.8	6.84	12.4740
	62	Tetrachloroethene	111	97	104	106	106	102	98	101	95	79	6.1	8.80	12.6027
	63	Dibromochloromethane	93	94	99	103	104	106	103	109	100	87	5.2	6.68	12.9578
	64	1,2-Dibromoethane	99	93	100	105	105	104	102	108	99	86	4.8	6.57	13.3247
	65	1-Chlorohexane	112	99	109	106	107	103	97	100	92	75	7.5	10.53	13.6074
	66	Chlorobenzene	102	97	103	107	106	104	101	104	96	81	5.2	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	108	93	104	103	105	104	101	106	95	80	6.2	8.36	14.1681
	68	Ethylbenzene	105	96	104	102	104	101	96	101	90	------	3.9	4.94	14.1840
2	69	m-Xylene & p-Xylene	103	97	103	105	104	102	95	100	91	------	3.7	4.55	14.3254
	70	o-Xylene	104	98	104	107	105	105	98	104	94	79	6.1	8.43	15.1491
	71	Styrene	101	91	100	105	105	108	102	107	99	83	5.4	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	108	99	107	108	105	103	97	103	93	77	6.6	9.38	15.8342
	74	Bromoform	87	87	100	101	106	106	106	114	104	91	7	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	103	101	103	105	103	101	99	106	96	83	4.4	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	93	104	106	105	107	98	87	6.3	7.80	16.3184
	77	1,2,3-Trichloropropane	115	128	108	102	98	96	92	99	88	77	10.4	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	101	100	102	104	103	110	97	83	4.8	7.64	16.5844
	79	n-Propylbenzene	106	100	106	106	106	103	98	103	95	77	6.1	9.03	16.6110
	80	Bromobenzene	99	97	101	105	103	103	100	107	99	86	3.8	5.85	16.6998
	81	1,3,5-Trimethylbenzene	105	98	108	107	105	103	99	104	94	76	6.4	9.31	16.9232
	82	2-Chlorotoluene	107	102	105	105	101	99	96	107	98	80	5.5	8.13	16.9572
	83	4-Chlorotoluene	106	99	105	105	105	106	102	101	93	78	6	8.71	17.0504
	84	tert-Butylbenzene	108	100	105	107	106	102	98	103	93	78	6.2	8.82	17.6201
	85	1,2,4-Trimethylbenzene	103	98	105	105	105	104	99	104	96	80	5.4	7.81	17.6941
	86	sec-Butylbenzene	106	99	109	108	107	102	97	101	93	77	6.7	9.57	18.0196
	87	p-Isopropyltoluene	108	98	107	106	105	104	98	102	95	77	6.4	9.11	18.2563
	88	1,3-Dichlorobenzene	105	97	101	104	105	103	100	105	98	83	4.5	6.67	18.4161
	89	1,4-Dichlorobenzene	103	98	103	104	104	103	100	104	98	83	4.4	6.58	18.5863
	90	n-Butylbenzene	112	99	107	105	105	103	98	102	92	75	6.9	10.13	18.9059
	91	1,2-Dichlorobenzene	100	99	104	106	104	104	99	104	96	83	4.4	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	108	102	92	100	103	102	108	98	91	4.7	5.97	20.1931
	93	1,2,4-Trichlorobenzene	108	95	105	103	104	102	100	103	96	85	4.8	6.51	21.3340
	94	Hexachlorobutadiene	104	100	108	103	106	104	97	102	94	82	5.4	7.65	21.5145
	95	Naphthalene	102	89	96	96	98	99	104	111	106	99	4.5	6.04	21.7024
	96	1,2,3-Trichlorobenzene	114	103	102	101	102	100	98	100	94	85	4.6	7.34	22.0382

SG
12/16/10

2160

Compound List Report TO01

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.81	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	2.22	0.251	A	1	A	B
3	T	Dichlorotetrafluoroethane	85	3.34	0.379	A	2	A	B
4	T	Chloromethane	50	2.48	0.282	A	1	A	B
5	T	Vinyl chloride	62	2.66	0.302	A	1	A	B
6	T	Bromomethane	94	3.18	0.361	A	1	A	B
7	T	Chloroethane	64	3.25	0.369	A	2	A	B
8	T	Dichlorofluoromethane	67	3.34	0.379	A	1	A	B
9	T	Trichlorofluoromethane	101	3.64	0.413	A	1	A	B
10	T	sec-Propyl alcohol	45	5.26	0.597	A	1	A	B
11	T	Acrolein	56	4.14	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.20	0.476	A	1	A	B
13	T	Acetone	43	4.23	0.480	A	2	A	B
14	T	1,1-Dichloroethene	61	4.39	0.498	A	2	A	B
15	T	tert-Butyl alcohol	59	4.52	0.513	A	1	A	B
16	T	Acetonitrile	41	0.00	0.000	A	2	A	B
17	T	Iodomethane	142	4.81	0.545	A	1	A	B
18	T	Methyl acetate	43	6.64	0.753	A	1	A	B
19	T	Methylene chloride	49	5.04	0.572	A	2	A	B
20	T	Carbon disulfide	76	5.07	0.575	L	1	A	B
21	T	Acrylonitrile	53	5.21	0.590	A	2	A	B
22	T	tert-Butyl methyl ether (MTBE)	73	5.26	0.597	A	1	A	B
23	T	trans-1,2-Dichloroethene	61	5.44	0.617	A	2	A	B
24	T	Isopropyl ether (DIPE)	45	5.89	0.668	A	1	A	B
25	T	Vinyl acetate	43	6.03	0.684	A	1	A	B
26	T	1,1-Dichloroethane	63	6.05	0.686	A	2	A	B
27	T	2-Butanol	45	8.80	0.998	A	1	A	B
28	T	tert-Butyl ethyl ether (ETBE)	59	6.48	0.735	A	1	A	B
29	T	2-Butanone	43	6.64	0.753	A	1	A	B
30	T	2,2-Dichloropropane	77	6.85	0.777	A	2	A	B
31	T	cis-1,2-Dichloroethene	96	6.92	0.785	A	2	A	B
32	T	Chloroform	83	7.14	0.810	A	2	A	B
33	T	Bromochloromethane	49	7.38	0.837	A	2	A	B
34	S	Dibromofluoromethane	111	7.47	0.847	A	2	A	B
35	T	Tetrahydrofuran	42	0.00	0.000	A	2	A	B
36	T	1,1,1-Trichloroethane	97	7.75	0.879	A	2	A	B
37	T	Cyclohexane	56	10.55	1.196	A	2	A	B
38	T	1-Butanol	56	10.55	1.196	A	2	A	B
39	T	tert-Amyl methyl ether (TAME)	87	8.16	0.926	A	2	A	B
40	S	1,2-Dichloroethane-d4	65	8.21	0.931	A	1	A	B
41	I	CHLOROBENZENE-D5	117	14.02	1.000	A	2	A	B
42	T	1,1-Dichloropropene	110	7.97	0.568	A	1	A	B
43	T	Carbon tetrachloride	119	8.14	0.580	A	1	A	B
44	T	1,2-Dichloroethane	62	8.36	0.596	A	1	A	B
45	T	Benzene	78	8.39	0.598	A	2	A	B
46	T	Trichloroethene	130	9.33	0.666	A	3	A	B
47	T	Methylcyclohexane	83	12.47	0.889	A	2	A	B
48	T	1,2-Dichloropropane	63	9.61	0.686	A	2	A	B
49	T	1,4-Dioxane	88	10.06	0.717	A	1	A	B
50	T	Bromodichloromethane	83	10.00	0.713	A	1	A	B
51	T	Dibromomethane	93	10.09	0.719	A	2	A	B
52	T	2-Chloroethyl vinyl ether	63	10.49	0.748	A	2	A	B

SCN 121161

2200

53		T	4-Methyl-2-pentanone	43	10.55	0.752	A	3	A	B
54		T	cis-1,3-Dichloropropene	75	10.89	0.776	A	3	A	B
55		S	Toluene-d8	98	11.32	0.807	A	1	A	B
56		T	Toluene	91	11.45	0.816	A	1	A	B
57		T	Ethyl methacrylate	69	11.73	0.836	A	2	A	B
58		T	trans-1,3-Dichloropropene	75	11.75	0.838	A	2	A	B
59		T	2-Hexanone	43	12.04	0.859	A	2	A	B
60		T	1,1,2-Trichloroethane	97	12.03	0.858	A	3	A	B
61		T	1,3-Dichloropropane	76	12.47	0.889	A	1	A	B
62		T	Tetrachloroethene	164	12.60	0.899	A	3	A	B
63		T	Dibromochloromethane	129	12.96	0.924	A	1	A	B
64		T	1,2-Dibromoethane	107	13.33	0.950	A	1	A	B
65		T	1-Chlorohexane	91	13.61	0.970	A	3	A	B
66	P		Chlorobenzene	112	14.08	1.004	A	3	A	B
67		T	1,1,1,2-Tetrachloroethane	131	14.17	1.011	A	3	A	B
68		T	Ethylbenzene	91	14.19	1.012	A	1	A	B
69		T	m-Xylene & p-Xylene	91	14.32	1.021	A	1	A	B
70		T	o-Xylene	91	15.15	1.080	A	1	A	B
71		T	Styrene	104	15.22	1.085	A	2	A	B
72	I		1,2-DICHLOROBENZENE-D4	152	19.10	1.000	A	1	A	B
73		T	Isopropylbenzene	105	15.83	0.829	A	3	A	B
74		T	Bromoform	173	15.87	0.831	A	2	A	B
75		T	1,1,2,2-Tetrachloroethane	83	16.15	0.846	A	1	A	B
76		S	4-Bromofluorobenzene	95	16.32	0.854	A	2	A	B
77		T	1,2,3-Trichloropropane	110	16.45	0.861	A	2	A	B
78		T	trans-1,4-Dichloro-2-butene	53	16.58	0.868	A	1	A	B
79		T	n-Propylbenzene	91	16.61	0.870	A	2	A	B
80		T	Bromobenzene	156	16.70	0.874	A	2	A	B
81		T	1,3,5-Trimethylbenzene	105	16.92	0.886	A	2	A	B
82		T	2-Chlorotoluene	91	16.95	0.888	A	1	A	B
83		T	4-Chlorotoluene	91	17.06	0.893	A	1	A	B
84		T	tert-Butylbenzene	134	17.62	0.923	A	2	A	B
85		T	1,2,4-Trimethylbenzene	105	17.69	0.926	A	1	A	B
86		T	sec-Butylbenzene	105	18.02	0.943	A	1	A	B
87		T	p-Isopropyltoluene	119	18.26	0.956	A	2	A	B
88		T	1,3-Dichlorobenzene	146	18.42	0.964	A	2	A	B
89		T	1,4-Dichlorobenzene	146	18.58	0.973	A	2	A	B
90		T	n-Butylbenzene	91	18.91	0.990	A	2	A	B
91		T	1,2-Dichlorobenzene	146	19.14	1.002	A	2	A	B
92		T	1,2-Dibromo-3-chloropropane	157	20.19	1.057	A	2	A	B
93		T	1,2,4-Trichlorobenzene	180	21.33	1.117	A	2	A	B
94		T	Hexachlorobutadiene	225	21.53	1.127	A	2	A	B
95		T	Naphthalene	128	21.70	1.136	A	1	A	B
96		T	1,2,3-Trichlorobenzene	180	22.04	1.154	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

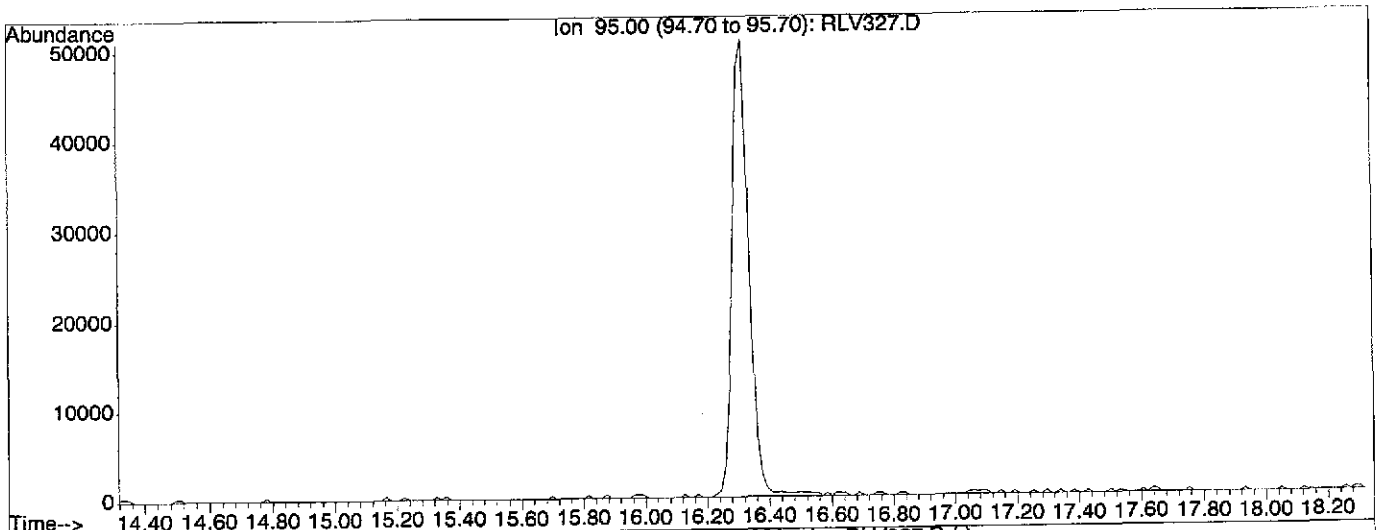
VO01L11.M Mon Dec 13 08:17:35 2010

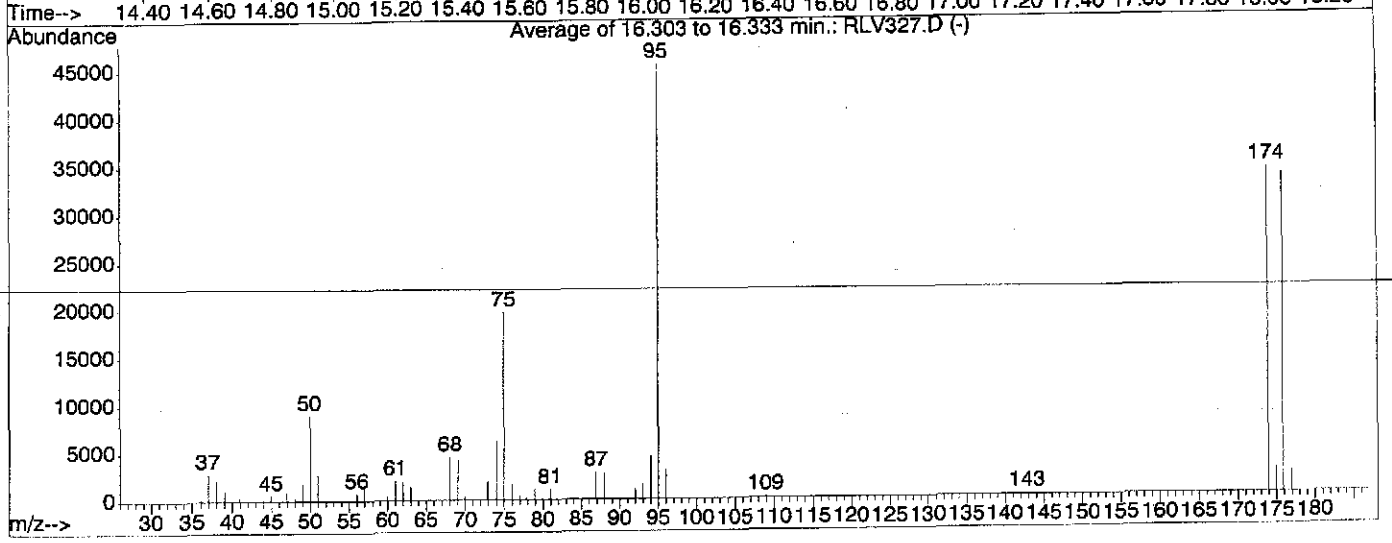
SC 12/16/10

BFB

Data File : D:\HPCHEM\1\DATA\10L11\RLV327.D
Acq On : 11 Dec 2010 9:15 am
Sample : BFB01L15
Misc : T/CHECK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DN
Inst : TO01
Multiplr: 1.00





AutoFind: Scans 965, 966, 967; Background Corrected with Scan 958

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	8978	PASS
75	95	30	60	43.3	19682	PASS
95	95	100	100	100.0	45499	PASS
96	95	5	9	6.7	3045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.8	34048	PASS
175	174	5	9	7.5	2548	PASS
176	174	95	101	98.3	33467	PASS
177	176	5	9	6.6	2202	PASS

RLV327.D VO01L11.M Mon Dec 13 08:01:36 2010

Sa 12/16/10

2202

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1433620	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1213888	10.00 ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.10	152	424948	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.45	111	13769	0.32 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 3.20%	
40) 1,2-Dichloroethane-d4	8.21	65	10656	0.32 ug/l	0.00
Spiked Amount 10.000			Recovery	= 3.20%	
55) Toluene-d8	11.32	98	66249	0.42 ug/l	0.00
Spiked Amount 10.000			Recovery	= 4.20%	
76) 4-Bromofluorobenzene	16.32	95	23976	0.50 ug/l	0.00
Spiked Amount 10.000			Recovery	= 5.00%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	8296	0.33 ug/l	99
4) Chloromethane	2.45	50	21931	0.43 ug/l	95
5) Vinyl chloride	2.65	62	15307	0.37 ug/l	94
6) Bromomethane	3.16	94	11315	0.36 ug/l	93
~~7) Chloroethane~~	~~3.25~~	~~64~~	~~11653~~	~~0.35 ug/l~~	~~82~~
8) Dichlorofluoromethane	3.33	67	27765	0.33 ug/l	85
9) Trichlorofluoromethane	3.62	101	16483	0.35 ug/l	100
11) Acrolein	4.15	56	7555	3.28 ug/l #	69
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	6961	0.30 ug/l	92
13) Acetone	4.23	43	11467	2.03 ug/l #	64
14) 1,1-Dichloroethene	4.39	61	21545	0.33 ug/l	97
15) tert-Butyl alcohol	4.55	59	3230	1.54 ug/l	100
17) Iodomethane	4.81	142	21257	0.31 ug/l	97
19) Methylene chloride	5.04	49	24035	0.35 ug/l	99
20) Carbon disulfide	5.07	76	47390	0.42 ug/l	95
21) Acrylonitrile	5.21	53	12300	1.64 ug/l	96
22) tert-Butyl methyl ether (M	5.29	73	19274	0.30 ug/l	81
23) trans-1,2-Dichloroethene	5.44	61	23448	0.32 ug/l	98
24) Isopropyl ether (DIPE)	5.92	45	54218	0.30 ug/l	95
25) Vinyl acetate	6.05	43	23006	0.34 ug/l	96
26) 1,1-Dichloroethane	6.05	63	27900	0.31 ug/l	97
28) tert-Butyl ethyl ether (ET	6.51	59	32114	0.30 ug/l	98
29) 2-Butanone	6.67	43	16857	1.59 ug/l	91
30) 2,2-Dichloropropane	6.85	77	18748	0.34 ug/l	97
31) cis-1,2-Dichloroethene	6.91	96	15713	0.30 ug/l	96
32) Chloroform	7.14	83	24241	0.31 ug/l	99
33) Bromochloromethane	7.38	49	11545	0.29 ug/l	97

(#) = qualifier out of range (m) = manual integration

SA 12/16/10

2203

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36) 1,1,1-Trichloroethane	7.75	97	17559	0.31 ug/l		98
39) tert-Amyl methyl ether (TA	8.19	87	4406	0.28 ug/l	#	73
42) 1,1-Dichloropropene	7.97	110	8059	0.35 ug/l		93
43) Carbon tetrachloride	8.13	119	15196	0.33 ug/l		94
44) 1,2-Dichloroethane	8.36	62	11980	0.29 ug/l		98
45) Benzene	8.39	78	61463	0.33 ug/l		99
46) Trichloroethene	9.33	130	14935	0.30 ug/l		87
48) 1,2-Dichloropropane	9.61	63	15732	0.30 ug/l		83
50) Bromodichloromethane	10.00	83	16810	0.30 ug/l		100
51) Dibromomethane	10.09	93	5682	0.28 ug/l	#	82
52) 2-Chloroethyl vinyl ether	10.49	63	3678	0.28 ug/l	#	73
53) 4-Methyl-2-pentanone	10.59	43	37338	1.40 ug/l		90
54) cis-1,3-Dichloropropene	10.89	75	21592	0.31 ug/l		90
56) Toluene	11.45	91	63591	0.33 ug/l		97
57) Ethyl methacrylate	11.76	69	12890	0.34 ug/l		72
58) trans-1,3-Dichloropropene	11.74	75	15278	0.31 ug/l	#	74
59) 2-Hexanone	12.07	43	26785	1.61 ug/l		93
60) 1,1,2-Trichloroethane	12.03	97	7993	0.30 ug/l		96
~~61) 1,3-Dichloropropane~~	~~12.47~~	~~76~~	~~15727~~	~~0.30 ug/l~~		~~99~~
62) Tetrachloroethene	12.60	164	12554	0.33 ug/l		96
63) Dibromochloromethane	12.96	129	9223	0.28 ug/l		97
64) 1,2-Dibromoethane	13.31	107	7751	0.30 ug/l		81
65) 1-Chlorohexane	13.59	91	26456	0.33 ug/l		95
66) Chlorobenzene	14.08	112	35278	0.31 ug/l	#	72
67) 1,1,1,2-Tetrachloroethane	14.16	131	12115	0.33 ug/l	#	1
68) Ethylbenzene	14.17	91	69403	0.32 ug/l		100
69) m-Xylene & p-Xylene	14.32	91	99746	0.61 ug/l		99
70) o-Xylene	15.15	91	49423	0.31 ug/l		99
71) Styrene	15.21	104	35899	0.30 ug/l		97
73) Isopropylbenzene	15.83	105	60323	0.32 ug/l		100
74) Bromoform	15.86	173	4088	0.26 ug/l		91
75) 1,1,2,2-Tetrachloroethane	16.15	83	9420	0.31 ug/l		99
77) 1,2,3-Trichloropropane	16.45	110	2638	0.34 ug/l		90
78) trans-1,4-Dichloro-2-buten	16.58	53	2052	0.26 ug/l	#	38
79) n-Propylbenzene	16.60	91	79092	0.32 ug/l		99
80) Bromobenzene	16.69	156	11581	0.30 ug/l		90
81) 1,3,5-Trimethylbenzene	16.92	105	46469	0.32 ug/l		99
82) 2-Chlorotoluene	16.95	91	48631	0.32 ug/l		93
83) 4-Chlorotoluene	17.04	91	41181	0.32 ug/l		96
84) tert-Butylbenzene	17.62	134	10758	0.32 ug/l		96
85) 1,2,4-Trimethylbenzene	17.69	105	45044	0.31 ug/l		99

(#) = qualifier out of range (m) = manual integration

12/16/10

2204

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) sec-Butylbenzene	18.02	105	65309	0.32 ug/l	99
87) p-Isopropyltoluene	18.26	119	50728	0.32 ug/l	98
88) 1,3-Dichlorobenzene	18.40	146	24811	0.31 ug/l	97
89) 1,4-Dichlorobenzene	18.58	146	23331	0.31 ug/l	99
90) n-Butylbenzene	18.91	91	54812	0.33 ug/l	97
91) 1,2-Dichlorobenzene	19.14	146	19249	0.30 ug/l	77
93) 1,2,4-Trichlorobenzene	21.33	180	12663	0.33 ug/l	94
94) Hexachlorobutadiene	21.51	225	7787	0.31 ug/l	97
95) Naphthalene	21.70	128	13771	0.31 ug/l	95
96) 1,2,3-Trichlorobenzene	22.03	180	10670	0.34 ug/l	89

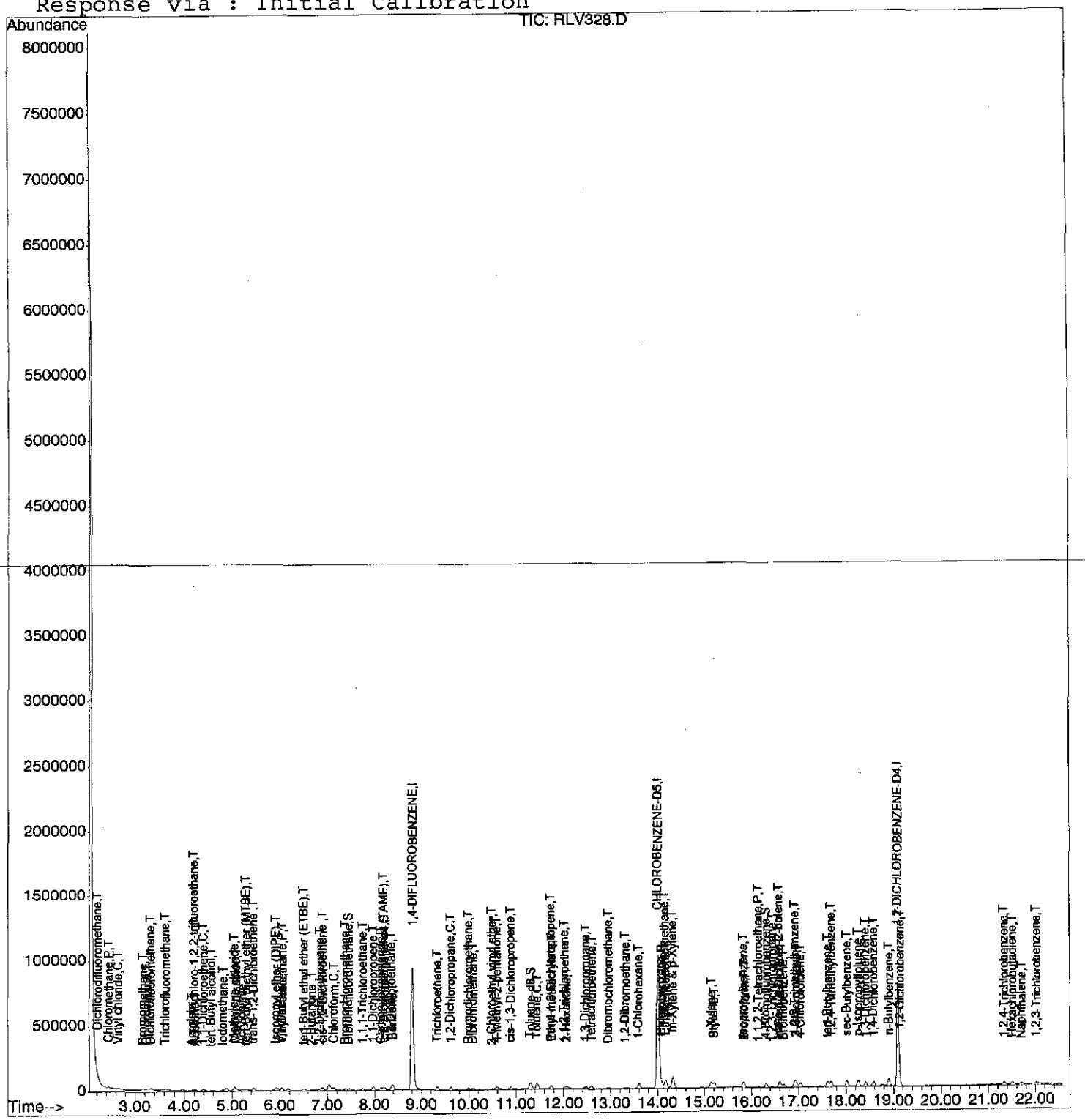
SM 12/16/10

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D Vial: 2
Acq On : 11 Dec 2010 9:56 am Operator: DN
Sample : VO01L111 0.3ppb Inst : TO01
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2206

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1521088	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1333515	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	458640	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	15643	0.34	ug/l	0.00
Spiked Amount 10.000			Recovery	=	3.40%	
40) 1,2-Dichloroethane-d4	8.21	65	12225	0.34	ug/l	0.00
Spiked Amount 10.000			Recovery	=	3.40%	
55) Toluene-d8	11.32	98	61858	0.36	ug/l	0.00
Spiked Amount 10.000			Recovery	=	3.60%	
76) 4-Bromofluorobenzene	16.32	95	24297	0.47	ug/l	0.00
Spiked Amount 10.000			Recovery	=	4.70%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	13208	0.50	ug/l	88
4) Chloromethane	2.47	50	31403	0.58	ug/l	99
5) Vinyl chloride	2.65	62	23347	0.53	ug/l	96
6) Bromomethane	3.17	94	15533	0.47	ug/l	93
~~7) Chloroethane~~	~~3.25~~	~~64~~	~~18935~~	~~0.53~~	~~ug/l~~	~~92~~
8) Dichlorofluoromethane	3.33	67	43974	0.49	ug/l	92
9) Trichlorofluoromethane	3.62	101	25292	0.50	ug/l	99
11) Acrolein	4.13	56	8779	3.59	ug/l	96
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	12073	0.50	ug/l	94
13) Acetone	4.23	43	18520	3.09	ug/l	90
14) 1,1-Dichloroethene	4.39	61	34274	0.49	ug/l	98
15) tert-Butyl alcohol	4.56	59	4969	2.23	ug/l	93
17) Iodomethane	4.81	142	34831	0.47	ug/l	99
19) Methylene chloride	5.04	49	44922	0.62	ug/l	99
20) Carbon disulfide	5.07	76	49620	0.42	ug/l	97
21) Acrylonitrile	5.21	53	19345	2.43	ug/l	96
22) tert-Butyl methyl ether (M	5.30	73	32633	0.47	ug/l	92
23) trans-1,2-Dichloroethene	5.44	61	37852	0.48	ug/l	98
24) Isopropyl ether (DIPE)	5.92	45	95196	0.49	ug/l	98
25) Vinyl acetate	6.04	43	38675	0.55	ug/l	97
26) 1,1-Dichloroethane	6.04	63	46226	0.48	ug/l	100
28) tert-Butyl ethyl ether (ET	6.51	59	55762	0.49	ug/l	99
29) 2-Butanone	6.67	43	26454	2.35	ug/l	100
30) 2,2-Dichloropropane	6.85	77	29770	0.51	ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	27968	0.50	ug/l	99
32) Chloroform	7.15	83	39972	0.48	ug/l	98
33) Bromochloromethane	7.38	49	19450	0.47	ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV329.D VO01L11.M Mon Dec 13 08:02:02 2010

SA 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36) 1,1,1-Trichloroethane	7.74	97	29362	0.49 ug/l		98
39) tert-Amyl methyl ether (TA	8.18	87	7984	0.47 ug/l	#	72
42) 1,1-Dichloropropene	7.97	110	13144	0.51 ug/l		96
43) Carbon tetrachloride	8.14	119	24665	0.49 ug/l		97
44) 1,2-Dichloroethane	8.36	62	20925	0.47 ug/l		97
45) Benzene	8.39	78	101994	0.49 ug/l		100
46) Trichloroethene	9.34	130	26268	0.48 ug/l		94
48) 1,2-Dichloropropane	9.62	63	27669	0.48 ug/l		99
50) Bromodichloromethane	9.99	83	28918	0.47 ug/l		98
51) Dibromomethane	10.07	93	10631	0.48 ug/l		86
52) 2-Chloroethyl vinyl ether	10.49	63	5701	0.40 ug/l		95
53) 4-Methyl-2-pentanone	10.58	43	61343	2.09 ug/l		89
54) cis-1,3-Dichloropropene	10.89	75	36765	0.47 ug/l		93
56) Toluene	11.45	91	105638	0.50 ug/l		100
57) Ethyl methacrylate	11.75	69	19238	0.47 ug/l		98
58) trans-1,3-Dichloropropene	11.75	75	24351	0.45 ug/l		84
59) 2-Hexanone	12.07	43	41459	2.27 ug/l		96
60) 1,1,2-Trichloroethane	12.03	97	14135	0.48 ug/l		97
~~61) 1,3-Dichloropropane~~	~~12.47~~	~~76~~	~~27644~~	~~0.48 ug/l~~		~~99~~
62) Tetrachloroethene	12.59	164	20142	0.49 ug/l		99
63) Dibromochloromethane	12.95	129	16925	0.47 ug/l		99
64) 1,2-Dibromoethane	13.32	107	13363	0.46 ug/l		90
65) 1-Chlorohexane	13.60	91	42897	0.49 ug/l		97
66) Chlorobenzene	14.08	112	61512	0.48 ug/l		83
67) 1,1,1,2-Tetrachloroethane	14.16	131	19003	0.46 ug/l	#	67
68) Ethylbenzene	14.17	91	116017	0.48 ug/l		99
69) m-Xylene & p-Xylene	14.32	91	172482	0.97 ug/l		99
70) o-Xylene	15.15	91	85196	0.49 ug/l		98
71) Styrene	15.21	104	59399	0.45 ug/l		96
73) Isopropylbenzene	15.83	105	99896	0.50 ug/l		99
74) Bromoform	15.86	173	7378	0.43 ug/l		95
75) 1,1,2,2-Tetrachloroethane	16.16	83	16510	0.50 ug/l		95
77) 1,2,3-Trichloropropane	16.45	110	5265	0.64 ug/l		73
78) trans-1,4-Dichloro-2-buten	16.57	53	4052	0.48 ug/l	#	38
79) n-Propylbenzene	16.60	91	133455	0.50 ug/l		99
80) Bromobenzene	16.69	156	20410	0.48 ug/l		96
81) 1,3,5-Trimethylbenzene	16.91	105	78055	0.49 ug/l		99
82) 2-Chlorotoluene	16.96	91	83350	0.51 ug/l		97
83) 4-Chlorotoluene	17.04	91	69196	0.49 ug/l		97
84) tert-Butylbenzene	17.62	134	18028	0.50 ug/l		97
85) 1,2,4-Trimethylbenzene	17.70	105	76744	0.49 ug/l		98

(#) = qualifier out of range (m) = manual integration
RLV329.D VO01L11.M Mon Dec 13 08:02:03 2010

SU 12/16/10

2208

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) sec-Butylbenzene	18.02	105	109750	0.50 ug/l	100
87) p-Isopropyltoluene	18.26	119	82798	0.49 ug/l	98
88) 1,3-Dichlorobenzene	18.41	146	41189	0.48 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	39860	0.49 ug/l	96
90) n-Butylbenzene	18.89	91	87755	0.50 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	34258	0.50 ug/l	89
92) 1,2-Dibromo-3-chloropropan	20.18	157	2193	0.54 ug/l	79
93) 1,2,4-Trichlorobenzene	21.33	180	19913	0.47 ug/l	95
94) Hexachlorobutadiene	21.51	225	13434	0.50 ug/l	98
95) Naphthalene	21.69	128	21678	0.45 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	17284	0.51 ug/l	90

SG 12/16/10

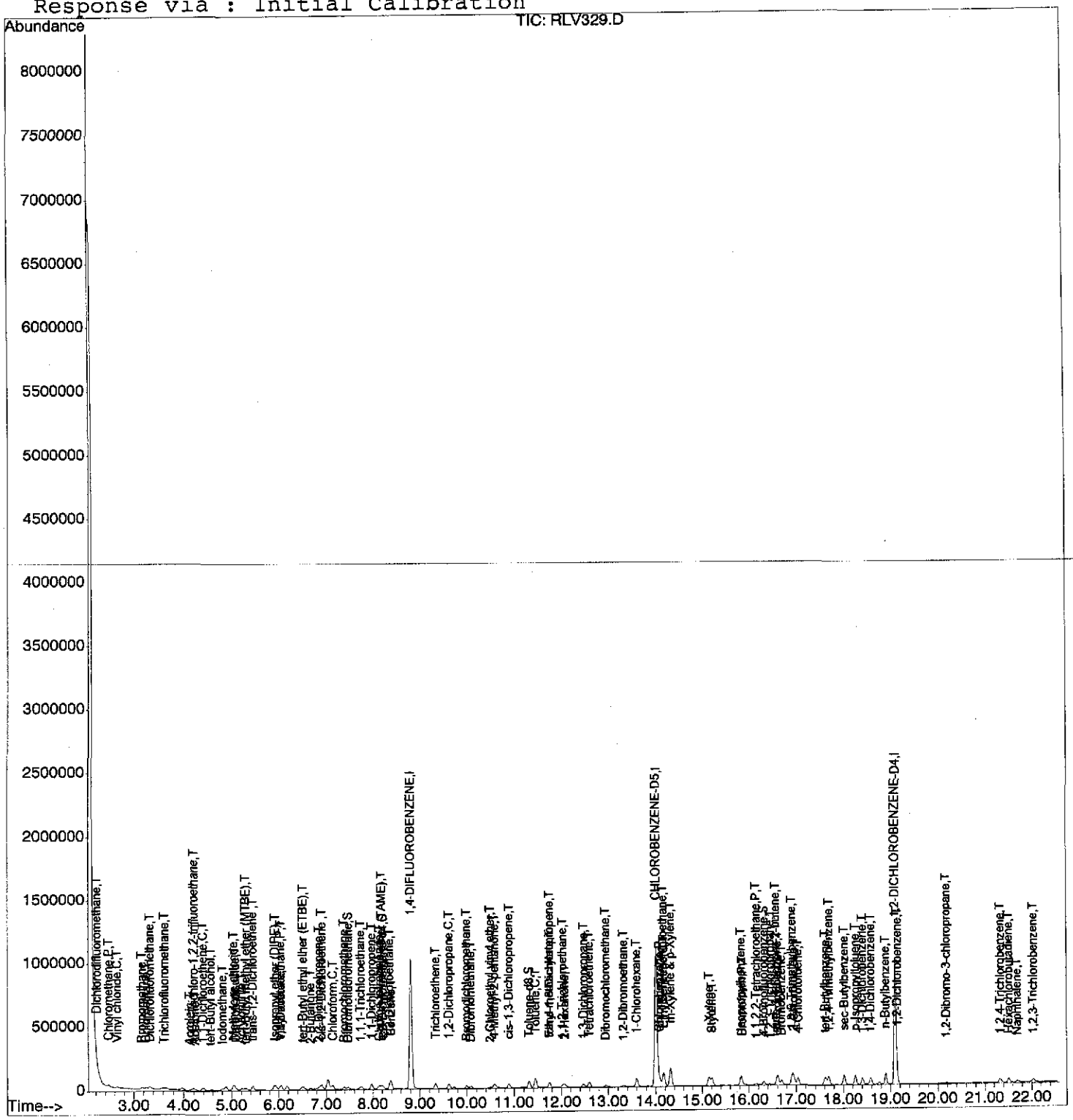
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SA 12/16/10

2210

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.81	114	1454606	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1245152	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	440304	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	43841	1.01 ug/l	0.00
Spiked Amount 10.000			Recovery	= 10.10%	
40) 1,2-Dichloroethane-d4	8.22	65	35082	1.03 ug/l	0.01
Spiked Amount 10.000			Recovery	= 10.30%	
55) Toluene-d8	11.31	98	168773	1.04 ug/l	0.00
Spiked Amount 10.000			Recovery	= 10.40%	
76) 4-Bromofluorobenzene	16.32	95	58835	1.18 ug/l	0.00
Spiked Amount 10.000			Recovery	= 11.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.21	85	27346	1.07 ug/l	99
4) Chloromethane	2.47	50	52732	1.01 ug/l	95
5) Vinyl chloride	2.66	62	46606	1.10 ug/l	97
6) Bromomethane	3.16	94	33117	1.05 ug/l	97
7) Chloroethane	3.25	64	34125	1.01 ug/l	89
8) Dichlorofluoromethane	3.34	67	89930	1.06 ug/l	94
9) Trichlorofluoromethane	3.64	101	50086	1.04 ug/l	100
11) Acrolein	4.14	56	15814	6.76 ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	25146	1.09 ug/l	95
13) Acetone	4.24	43	29978	5.22 ug/l	91
14) 1,1-Dichloroethene	4.40	61	69899	1.04 ug/l	99
15) tert-Butyl alcohol	4.57	59	10222	4.79 ug/l	91
17) Iodomethane	4.82	142	71979	1.02 ug/l	98
19) Methylene chloride	5.04	49	76397	1.10 ug/l	99
20) Carbon disulfide	5.07	76	166161	1.09 ug/l	97
21) Acrylonitrile	5.22	53	38937	5.12 ug/l	95
22) tert-Butyl methyl ether (M	5.29	73	68237	1.03 ug/l	97
23) trans-1,2-Dichloroethene	5.46	61	76938	1.03 ug/l	99
24) Isopropyl ether (DIPE)	5.91	45	188677	1.03 ug/l	99
25) Vinyl acetate	6.05	43	72232	1.07 ug/l	99
26) 1,1-Dichloroethane	6.05	63	95940	1.04 ug/l	99
28) tert-Butyl ethyl ether (ET	6.49	59	114364	1.04 ug/l	97
29) 2-Butanone	6.67	43	55966	5.20 ug/l	99
30) 2,2-Dichloropropane	6.86	77	60955	1.10 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	55755	1.03 ug/l	99
32) Chloroform	7.14	83	80568	1.02 ug/l	99
33) Bromochloromethane	7.39	49	40992	1.03 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV330.D VO01L11.M Mon Dec 13 08:02:16 2010

SCH 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	60543	1.05 ug/l	99
39) tert-Amyl methyl ether (TA	8.18	87	16889	1.04 ug/l	90
42) 1,1-Dichloropropene	7.99	110	25041	1.05 ug/l	100
43) Carbon tetrachloride	8.13	119	48385	1.03 ug/l	100
44) 1,2-Dichloroethane	8.36	62	43519	1.04 ug/l	97
45) Benzene	8.38	78	204513	1.06 ug/l	100
46) Trichloroethene	9.33	130	54343	1.06 ug/l	97
48) 1,2-Dichloropropane	9.63	63	54912	1.03 ug/l	95
49) 1,4-Dioxane	10.09	88	1783	10.55 ug/l #	1
50) Bromodichloromethane	10.00	83	56988	1.00 ug/l	99
51) Dibromomethane	10.09	93	20834	1.02 ug/l	95
52) 2-Chloroethyl vinyl ether	10.49	63	13088	0.99 ug/l	98
53) 4-Methyl-2-pentanone	10.57	43	140336	5.12 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	74471	1.03 ug/l	96
56) Toluene	11.45	91	210535	1.06 ug/l	99
57) Ethyl methacrylate	11.74	69	39445	1.02 ug/l	99
58) trans-1,3-Dichloropropene	11.76	75	51675	1.01 ug/l	92
59) 2-Hexanone	12.07	43	88344	5.18 ug/l	96
60) 1,1,2-Trichloroethane	12.02	97	28245	1.03 ug/l	99
61) 1,3-Dichloropropane	12.47	76	54055	1.01 ug/l	98
62) Tetrachloroethene	12.60	164	40228	1.04 ug/l	99
63) Dibromochloromethane	12.96	129	33427	0.99 ug/l	100
64) 1,2-Dibromoethane	13.33	107	27038	1.01 ug/l	87
65) 1-Chlorohexane	13.61	91	88145	1.09 ug/l	99
66) Chlorobenzene	14.08	112	121787	1.03 ug/l	90
67) 1,1,1,2-Tetrachloroethane	14.17	131	39658	1.04 ug/l #	69
68) Ethylbenzene	14.19	91	235043	1.04 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	342508	2.06 ug/l	100
70) o-Xylene	15.15	91	168545	1.04 ug/l	99
71) Styrene	15.21	104	122083	1.00 ug/l	99
73) Isopropylbenzene	15.83	105	206738	1.07 ug/l	100
74) Bromoform	15.86	173	16270	1.00 ug/l	97
75) 1,1,2,2-Tetrachloroethane	16.15	83	32480	1.03 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	8542	1.08 ug/l	95
78) trans-1,4-Dichloro-2-buten	16.58	53	8184	1.01 ug/l	90
79) n-Propylbenzene	16.61	91	272774	1.06 ug/l	100
80) Bromobenzene	16.70	156	40867	1.01 ug/l	95
81) 1,3,5-Trimethylbenzene	16.92	105	164615	1.08 ug/l	98
82) 2-Chlorotoluene	16.95	91	164193	1.05 ug/l	93
83) 4-Chlorotoluene	17.04	91	140740	1.05 ug/l	94
84) tert-Butylbenzene	17.62	134	36464	1.06 ug/l	97

(#) = qualifier out of range (m) = manual integration

SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	157517	1.05 ug/l	99
86) sec-Butylbenzene	18.02	105	230075	1.09 ug/l	100
87) p-Isopropyltoluene	18.25	119	172984	1.07 ug/l	98
88) 1,3-Dichlorobenzene	18.42	146	82522	1.01 ug/l	98
89) 1,4-Dichlorobenzene	18.58	146	80692	1.03 ug/l	99
90) n-Butylbenzene	18.91	91	182145	1.07 ug/l	99
91) 1,2-Dichlorobenzene	19.14	146	69033	1.04 ug/l	95
92) 1,2-Dibromo-3-chloropropan	20.19	157	4006	1.02 ug/l	91
93) 1,2,4-Trichlorobenzene	21.33	180	42169	1.05 ug/l	99
94) Hexachlorobutadiene	21.51	225	27863	1.08 ug/l	99
95) Naphthalene	21.70	128	44890	0.96 ug/l	99
96) 1,2,3-Trichlorobenzene	22.04	180	32992	1.02 ug/l	96

SU 12/16/10

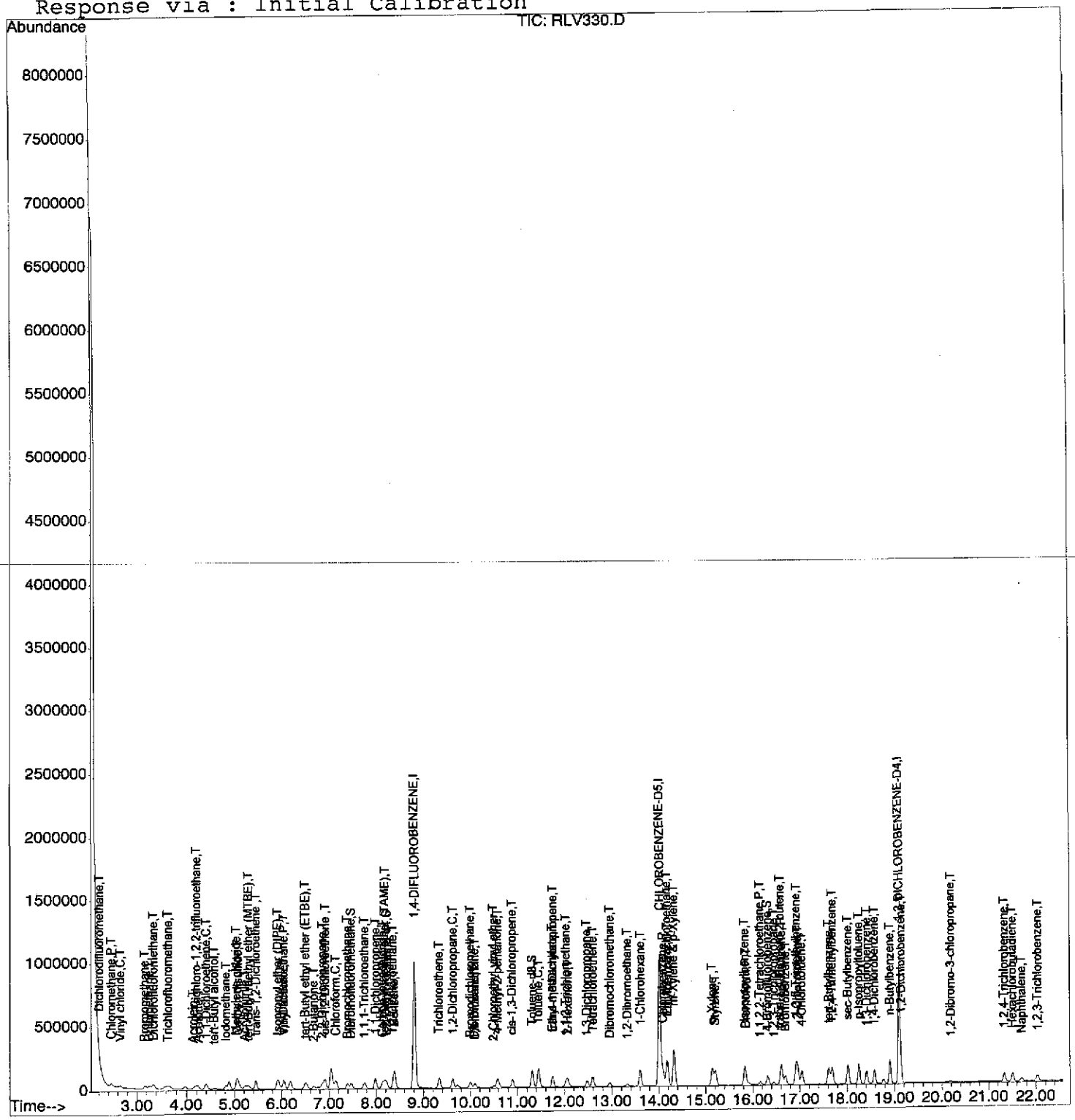
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SU 12/16/10

2214

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1495214	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1274840	10.00 ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	455962	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	78211	1.79 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.90%	
40) 1,2-Dichloroethane-d4	8.21	65	61601	1.80 ug/l	0.00
Spiked Amount 10.000			Recovery	= 18.00%	
55) Toluene-d8	11.32	98	292684	1.78 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.80%	
76) 4-Bromofluorobenzene	16.32	95	96030	1.72 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.20%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	53216	2.03 ug/l	95
4) Chloromethane	2.47	50	102715	1.91 ug/l	96
5) Vinyl chloride	2.65	62	86168	2.31 ug/l	99
6) Bromomethane	3.16	94	65481	2.02 ug/l	97
~~7) Chloroethane~~	~~3.25~~	~~64~~	~~66186~~	~~1.95 ug/l~~	~~96~~
8) Dichlorofluoromethane	3.33	67	184485	2.11 ug/l	98
9) Trichlorofluoromethane	3.62	101	98664	1.98 ug/l	98
11) Acrolein	4.14	56	26446	10.08 ug/l #	69
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	50420	2.12 ug/l	99
13) Acetone	4.23	43	63877	10.23 ug/l	96
14) 1,1-Dichloroethene	4.39	61	147800	2.15 ug/l	99
15) tert-Butyl alcohol	4.54	59	21456	9.87 ug/l	94
17) Iodomethane	4.81	142	152224	2.10 ug/l	99
19) Methylene chloride	5.04	49	151641	2.12 ug/l	99
20) Carbon disulfide	5.07	76	326667	1.97 ug/l	99
21) Acrylonitrile	5.21	53	81074	10.31 ug/l	98
22) tert-Butyl methyl ether (M	5.28	73	144393	2.12 ug/l	97
23) trans-1,2-Dichloroethene	5.44	61	161847	2.10 ug/l	100
24) Isopropyl ether (DIPE)	5.90	45	395864	2.09 ug/l	99
25) Vinyl acetate	6.05	43	133904	1.90 ug/l	99
26) 1,1-Dichloroethane	6.05	63	198729	2.10 ug/l	100
28) tert-Butyl ethyl ether (ET	6.49	59	243852	2.16 ug/l	99
29) 2-Butanone	6.66	43	112542	10.19 ug/l	97
30) 2,2-Dichloropropane	6.86	77	123642	2.17 ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	115859	2.09 ug/l	99
32) Chloroform	7.14	83	170941	2.10 ug/l	100
33) Bromochloromethane	7.38	49	85991	2.10 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV331.D VO01L11.M Mon Dec 13 08:02:30 2010

SW 12/16/10

2215

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	123641	2.09 ug/l	99
39) tert-Amyl methyl ether (TA	8.18	87	35887	2.15 ug/l	96
42) 1,1-Dichloropropene	7.97	110	51932	2.12 ug/l	96
43) Carbon tetrachloride	8.14	119	101804	2.11 ug/l	98
44) 1,2-Dichloroethane	8.36	62	91204	2.13 ug/l	98
45) Benzene	8.39	78	418607	2.11 ug/l	100
46) Trichloroethene	9.33	130	110555	2.10 ug/l	96
48) 1,2-Dichloropropane	9.63	63	117288	2.14 ug/l	97
49) 1,4-Dioxane	10.07	88	6277	38.55 ug/l #	1
50) Bromodichloromethane	10.00	83	122744	2.09 ug/l	99
51) Dibromomethane	10.09	93	44532	2.12 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	26261	1.98 ug/l	96
53) 4-Methyl-2-pentanone	10.56	43	289440	10.56 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	154130	2.08 ug/l	99
56) Toluene	11.45	91	427500	2.11 ug/l	99
57) Ethyl methacrylate	11.75	69	82313	2.05 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	109780	2.10 ug/l	99
59) 2-Hexanone	12.06	43	180340	10.34 ug/l	98
60) 1,1,2-Trichloroethane	12.03	97	59599	2.13 ug/l	98
61) 1,3-Dichloropropane	12.47	76	117124	2.13 ug/l	100
62) Tetrachloroethene	12.60	164	84432	2.13 ug/l	99
63) Dibromochloromethane	12.96	129	71047	2.06 ug/l	98
64) 1,2-Dibromoethane	13.31	107	57512	2.09 ug/l	91
65) 1-Chlorohexane	13.61	91	176594	2.13 ug/l	98
66) Chlorobenzene	14.08	112	258573	2.13 ug/l	97
67) 1,1,1,2-Tetrachloroethane	14.16	131	80551	2.06 ug/l	96
68) Ethylbenzene	14.19	91	471566	2.10 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	712635	4.34 ug/l	100
70) o-Xylene	15.15	91	355978	2.15 ug/l	99
71) Styrene	15.21	104	262130	2.10 ug/l	100
73) Isopropylbenzene	15.83	105	431052	2.15 ug/l	100
74) Bromoform	15.86	173	34029	2.02 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	68708	2.10 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	16741	2.04 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.58	53	16877	2.04 ug/l	96
79) n-Propylbenzene	16.61	91	565584	2.13 ug/l	99
80) Bromobenzene	16.70	156	87823	2.10 ug/l	98
81) 1,3,5-Trimethylbenzene	16.93	105	337649	2.14 ug/l	100
82) 2-Chlorotoluene	16.95	91	339170	2.10 ug/l	95
83) 4-Chlorotoluene	17.04	91	293989	2.11 ug/l	96
84) tert-Butylbenzene	17.62	134	76472	2.14 ug/l	98

(#) = qualifier out of range (m) = manual integration

SCL 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	328385	2.11 ug/l	98
86) sec-Butylbenzene	18.02	105	474348	2.16 ug/l	99
87) p-Isopropyltoluene	18.26	119	354792	2.12 ug/l	99
88) 1,3-Dichlorobenzene	18.42	146	175493	2.08 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	168519	2.07 ug/l	100
90) n-Butylbenzene	18.91	91	369252	2.10 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	145679	2.12 ug/l	98
92) 1,2-Dibromo-3-chloropropan	20.20	157	7463	1.83 ug/l	91
93) 1,2,4-Trichlorobenzene	21.33	180	85858	2.05 ug/l	98
94) Hexachlorobutadiene	21.51	225	55106	2.07 ug/l	97
95) Naphthalene	21.70	128	92856	1.92 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	67773	2.03 ug/l	98

SW
12/16/10

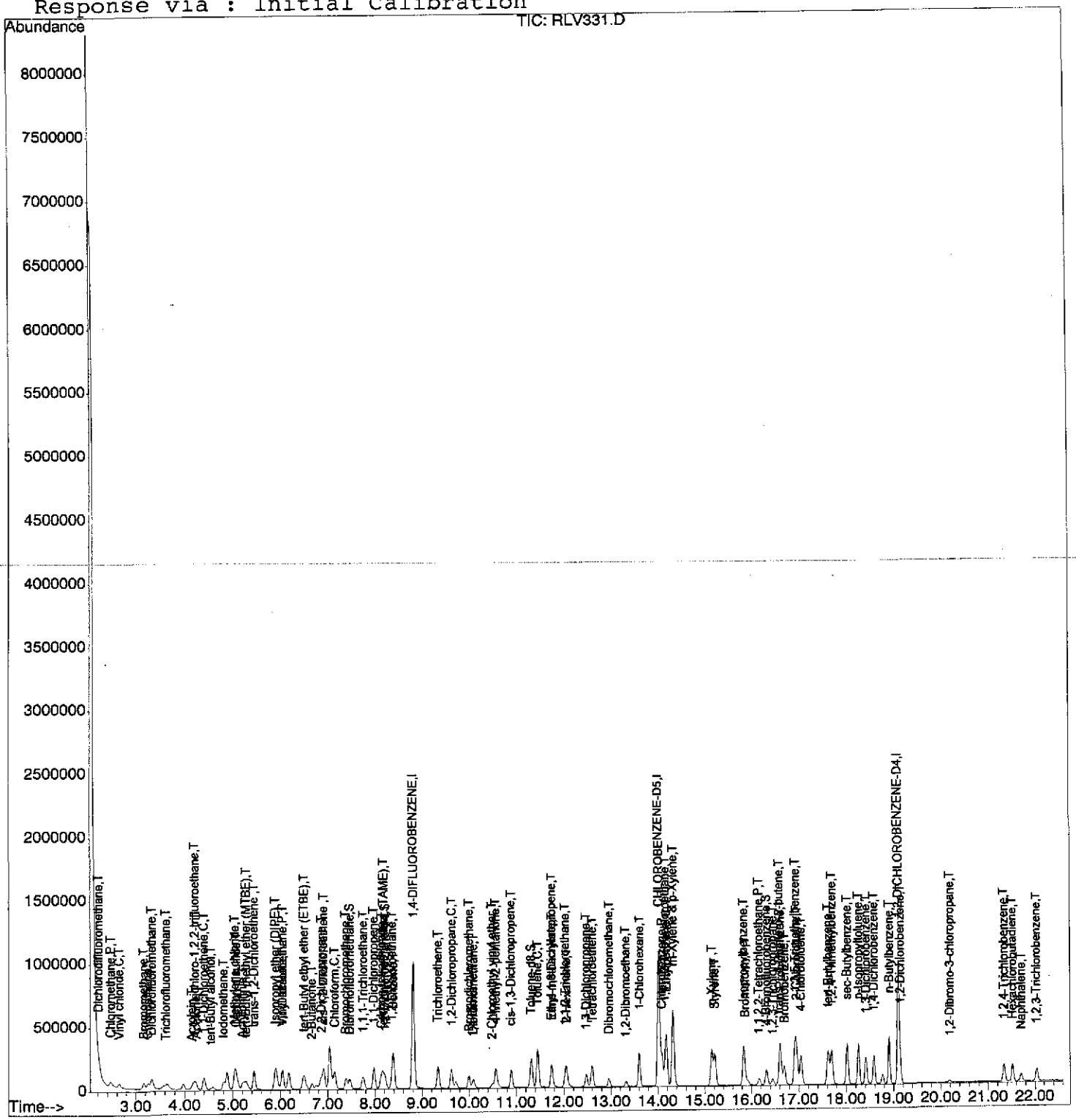
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2218

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1476711	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1254303	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	449347	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	227173	5.13 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.30%	
40) 1,2-Dichloroethane-d4	8.21	65	174844	5.05 ug/l	0.00
Spiked Amount 10.000			Recovery	= 50.50%	
55) Toluene-d8	11.32	98	842023	5.15 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.50%	
76) 4-Bromofluorobenzene	16.32	95	264605	5.19 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.90%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	127906	4.95 ug/l	99
4) Chloromethane	2.48	50	240753	4.55 ug/l	98
5) Vinyl chloride	2.65	62	198039	4.59 ug/l	99
6) Bromomethane	3.16	94	153684	4.79 ug/l	98
7) Chloroethane	3.25	64	161266	4.69 ug/l	98
8) Dichlorofluoromethane	3.34	67	451507	5.22 ug/l	99
9) Trichlorofluoromethane	3.64	101	240933	4.91 ug/l	98
11) Acrolein	4.14	56	62230	26.20 ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	123418	5.25 ug/l	97
13) Acetone	4.23	43	141547	24.30 ug/l	97
14) 1,1-Dichloroethene	4.39	61	350012	5.15 ug/l	99
15) tert-Butyl alcohol	4.54	59	54701	25.24 ug/l	93
17) Iodomethane	4.82	142	372390	5.20 ug/l	100
19) Methylene chloride	5.04	49	342799	4.85 ug/l	99
20) Carbon disulfide	5.07	76	839941	4.85 ug/l	99
21) Acrylonitrile	5.22	53	189155	24.52 ug/l	99
22) tert-Butyl methyl ether (M	5.28	73	346873	5.17 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	399423	5.24 ug/l	100
24) Isopropyl ether (DIPE)	5.90	45	963238	5.16 ug/l	100
25) Vinyl acetate	6.05	43	319114	4.64 ug/l	100
26) 1,1-Dichloroethane	6.05	63	494314	5.30 ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	576919	5.19 ug/l	100
29) 2-Butanone	6.66	43	262461	24.03 ug/l	99
30) 2,2-Dichloropropane	6.86	77	296838	5.28 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	283435	5.18 ug/l	99
32) Chloroform	7.14	83	416514	5.17 ug/l	100
33) Bromochloromethane	7.40	49	209458	5.18 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV332.D VO01L11.M Mon Dec 13 08:02:44 2010

SW 12/16/10

2219

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	306777	5.26 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	88795	5.38 ug/l	97
42) 1,1-Dichloropropene	7.97	110	126781	5.26 ug/l	99
43) Carbon tetrachloride	8.14	119	250825	5.29 ug/l	99
44) 1,2-Dichloroethane	8.36	62	220843	5.25 ug/l	100
45) Benzene	8.39	78	1013081	5.19 ug/l	99
46) Trichloroethene	9.33	130	270788	5.23 ug/l	99
48) 1,2-Dichloropropane	9.63	63	283868	5.27 ug/l	97
49) 1,4-Dioxane	10.06	88	16502	96.93 ug/l	83
50) Bromodichloromethane	10.00	83	301598	5.23 ug/l	99
51) Dibromomethane	10.09	93	108162	5.25 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	66815	5.00 ug/l	99
53) 4-Methyl-2-pentanone	10.56	43	684717	24.79 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	378039	5.19 ug/l	99
56) Toluene	11.45	91	1047611	5.25 ug/l	100
57) Ethyl methacrylate	11.75	69	200892	5.17 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	270192	5.26 ug/l	99
59) 2-Hexanone	12.06	43	425391	24.74 ug/l	98
60) 1,1,2-Trichloroethane	12.03	97	145176	5.27 ug/l	100
61) 1,3-Dichloropropane	12.47	76	285279	5.27 ug/l	99
62) Tetrachloroethene	12.60	164	206082	5.29 ug/l	100
63) Dibromochloromethane	12.96	129	176399	5.20 ug/l	99
64) 1,2-Dibromoethane	13.33	107	141498	5.23 ug/l	99
65) 1-Chlorohexane	13.61	91	437846	5.36 ug/l	100
66) Chlorobenzene	14.10	112	630899	5.28 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	201887	5.25 ug/l	99
68) Ethylbenzene	14.19	91	1186566	5.22 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	1731436	10.32 ug/l	100
70) o-Xylene	15.15	91	858118	5.26 ug/l	100
71) Styrene	15.22	104	642832	5.23 ug/l	100
73) Isopropylbenzene	15.83	105	1040198	5.27 ug/l	100
74) Bromoform	15.87	173	87748	5.28 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	165736	5.15 ug/l	98
77) 1,2,3-Trichloropropane	16.45	110	39587	4.89 ug/l	95
78) trans-1,4-Dichloro-2-buten	16.58	53	42539	5.12 ug/l	99
79) n-Propylbenzene	16.61	91	1384848	5.29 ug/l	100
80) Bromobenzene	16.70	156	212972	5.16 ug/l	99
81) 1,3,5-Trimethylbenzene	16.92	105	814948	5.24 ug/l	99
82) 2-Chlorotoluene	16.95	91	808427	5.07 ug/l	99
83) 4-Chlorotoluene	17.06	91	723347	5.27 ug/l	100
84) tert-Butylbenzene	17.62	134	186182	5.28 ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV332.D VO01L11.M Mon Dec 13 08:02:45 2010

SW 12/16/10

2220

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	803930	5.24 ug/l	100
86) sec-Butylbenzene	18.02	105	1162362	5.37 ug/l	100
87) p-Isopropyltoluene	18.26	119	865714	5.24 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	436318	5.24 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	417630	5.22 ug/l	99
90) n-Butylbenzene	18.91	91	910338	5.26 ug/l	99
91) 1,2-Dichlorobenzene	19.14	146	351738	5.20 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.19	157	19914	4.96 ug/l	97
93) 1,2,4-Trichlorobenzene	21.33	180	213165	5.18 ug/l	99
94) Hexachlorobutadiene	21.51	225	139383	5.30 ug/l	99
95) Naphthalene	21.70	128	234744	4.93 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	167798	5.10 ug/l	99

SU 12/16/10

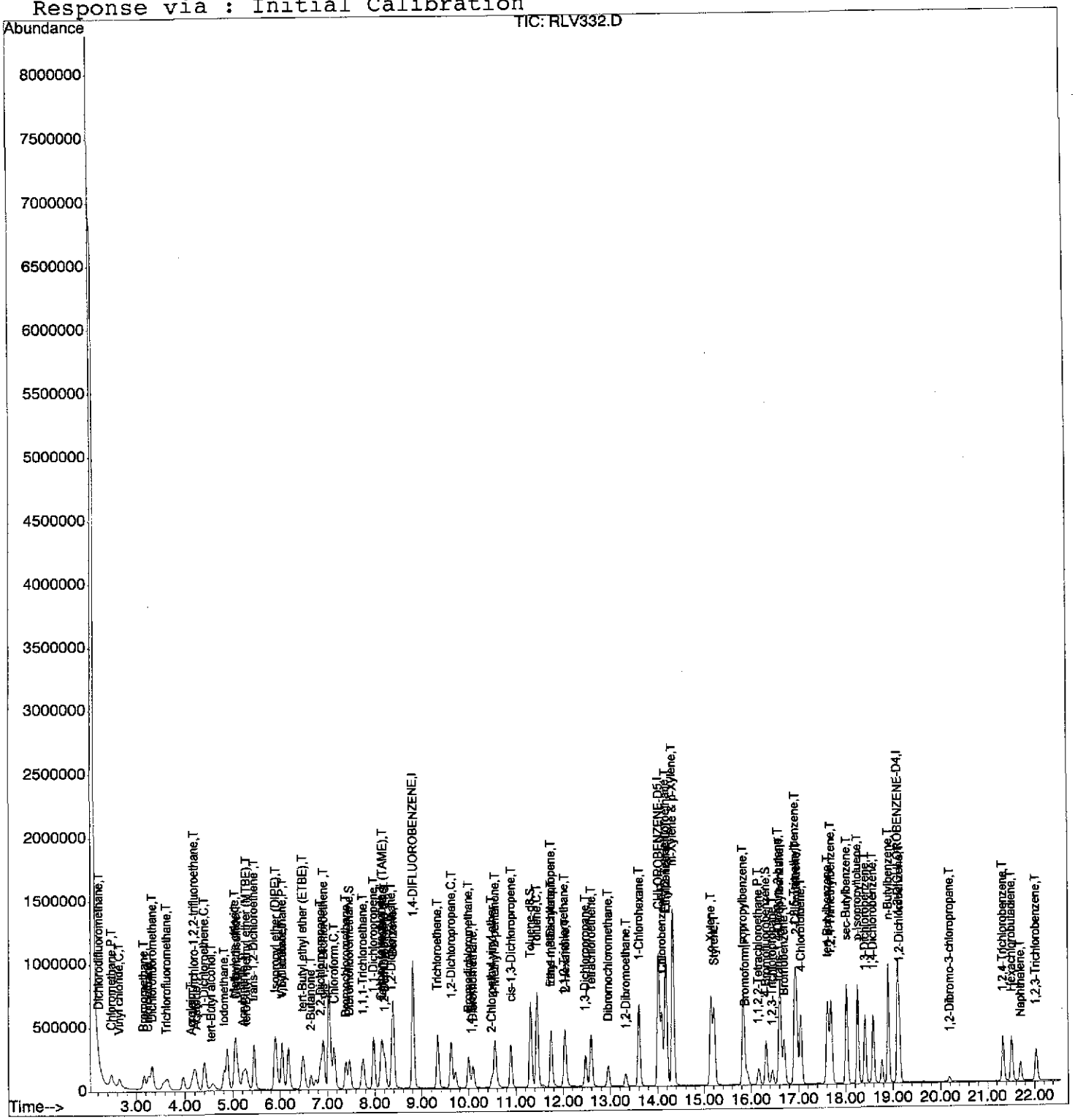
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2222

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1443192	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1241991	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	452642	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	460724	10.65 ug/l	0.00
Spiked Amount 10.000			Recovery	= 106.50%	
40) 1,2-Dichloroethane-d4	8.21	65	355381	10.51 ug/l	0.00
Spiked Amount 10.000			Recovery	= 105.10%	
55) Toluene-d8	11.32	98	1695591	10.48 ug/l	0.00
Spiked Amount 10.000			Recovery	= 104.80%	
76) 4-Bromofluorobenzene	16.32	95	543202	10.58 ug/l	0.00
Spiked Amount 10.000			Recovery	= 105.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	274391	10.87 ug/l	100
4) Chloromethane	2.48	50	527549	10.20 ug/l	100
5) Vinyl chloride	2.66	62	400116	9.49 ug/l	100
6) Bromomethane	3.18	94	340390	10.86 ug/l	100
7) Chloroethane	3.25	64	348067	10.35 ug/l	100
8) Dichlorofluoromethane	3.34	67	868453	10.27 ug/l	100
9) Trichlorofluoromethane	3.64	101	505657	10.54 ug/l	100
11) Acrolein	4.14	56	120023	51.71 ug/l	100
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	241862	10.52 ug/l	100
13) Acetone	4.23	43	288846	50.74 ug/l	100
14) 1,1-Dichloroethene	4.39	61	681342	10.26 ug/l	100
15) tert-Butyl alcohol	4.52	59	102321	48.32 ug/l	100
17) Iodomethane	4.81	142	733115	10.47 ug/l	100
19) Methylene chloride	5.04	49	671766	9.72 ug/l	100
20) Carbon disulfide	5.07	76	1933037	11.21 ug/l	100
21) Acrylonitrile	5.21	53	379155	50.28 ug/l	100
22) tert-Butyl methyl ether (M	5.26	73	679967	10.36 ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	758917	10.19 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	1894497	10.38 ug/l	100
25) Vinyl acetate	6.03	43	703583	10.46 ug/l	100
26) 1,1-Dichloroethane	6.05	63	938354	10.29 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	1130378	10.40 ug/l	100
29) 2-Butanone	6.64	43	530180	49.66 ug/l	100
30) 2,2-Dichloropropane	6.85	77	554062	10.08 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	556671	10.41 ug/l	100
32) Chloroform	7.14	83	801788	10.19 ug/l	100
33) Bromochloromethane	7.38	49	414799	10.50 ug/l	100

(#) = qualifier out of range (m) = manual integration
RLV333.D VO01L11.M Mon Dec 13 08:02:58 2010 SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	580589	10.18 ug/l	100
39) tert-Amyl methyl ether (TA	8.16	87	168976	10.48 ug/l	100
42) 1,1-Dichloropropene	7.97	110	240031	10.06 ug/l	100
43) Carbon tetrachloride	8.14	119	477402	10.16 ug/l	100
44) 1,2-Dichloroethane	8.36	62	431785	10.37 ug/l	100
45) Benzene	8.39	78	1976955	10.22 ug/l	100
46) Trichloroethene	9.33	130	537516	10.48 ug/l	100
48) 1,2-Dichloropropane	9.61	63	548511	10.28 ug/l	100
49) 1,4-Dioxane	10.06	88	33555	199.04 ug/l	100
50) Bromodichloromethane	10.00	83	595626	10.43 ug/l	100
51) Dibromomethane	10.09	93	212212	10.39 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	134698	10.19 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	1375425	50.28 ug/l	100
54) cis-1,3-Dichloropropene	10.89	75	751319	10.41 ug/l	100
56) Toluene	11.45	91	2016173	10.21 ug/l	100
57) Ethyl methacrylate	11.73	69	407173	10.57 ug/l	100
58) trans-1,3-Dichloropropene	11.75	75	529203	10.41 ug/l	100
59) 2-Hexanone	12.04	43	858625	50.43 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	284699	10.43 ug/l	100
61) 1,3-Dichloropropane	12.47	76	556602	10.39 ug/l	100
62) Tetrachloroethene	12.60	164	393861	10.21 ug/l	100
63) Dibromochloromethane	12.96	129	355399	10.58 ug/l	100
64) 1,2-Dibromoethane	13.33	107	280052	10.45 ug/l	100
65) 1-Chlorohexane	13.61	91	835253	10.33 ug/l	100
66) Chlorobenzene	14.08	112	1232848	10.43 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	396904	10.42 ug/l	100
68) Ethylbenzene	14.19	91	2282099	10.13 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3377053	20.33 ug/l	100
70) o-Xylene	15.15	91	1698781	10.52 ug/l	100
71) Styrene	15.22	104	1308727	10.75 ug/l	100
73) Isopropylbenzene	15.83	105	2041197	10.27 ug/l	100
74) Bromoform	15.87	173	177072	10.57 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.15	83	327706	10.11 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	77655	9.52 ug/l	100
78) trans-1,4-Dichloro-2-buten	16.58	53	86809	10.38 ug/l	100
79) n-Propylbenzene	16.61	91	2713751	10.28 ug/l	100
80) Bromobenzene	16.70	156	426521	10.26 ug/l	100
81) 1,3,5-Trimethylbenzene	16.92	105	1605954	10.26 ug/l	100
82) 2-Chlorotoluene	16.95	91	1590124	9.90 ug/l	100
83) 4-Chlorotoluene	17.06	91	1465801	10.60 ug/l	100
84) tert-Butylbenzene	17.62	134	363190	10.22 ug/l	100

(#) = qualifier out of range (m) = manual integration
RLV333.D VO01L11.M Mon Dec 13 08:02:59 2010

Su 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	1614642	10.45 ug/l	100
86) sec-Butylbenzene	18.02	105	2223954	10.21 ug/l	100
87) p-Isopropyltoluene	18.26	119	1728539	10.39 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	865231	10.31 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	834032	10.34 ug/l	100
90) n-Butylbenzene	18.91	91	1803831	10.35 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	706099	10.36 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.19	157	41701	10.32 ug/l	100
93) 1,2,4-Trichlorobenzene	21.33	180	422451	10.19 ug/l	100
94) Hexachlorobutadiene	21.53	225	274521	10.37 ug/l	100
95) Naphthalene	21.70	128	474465	9.89 ug/l	100
96) 1,2,3-Trichlorobenzene	22.04	180	331406	9.99 ug/l	100

SU 12/16/10

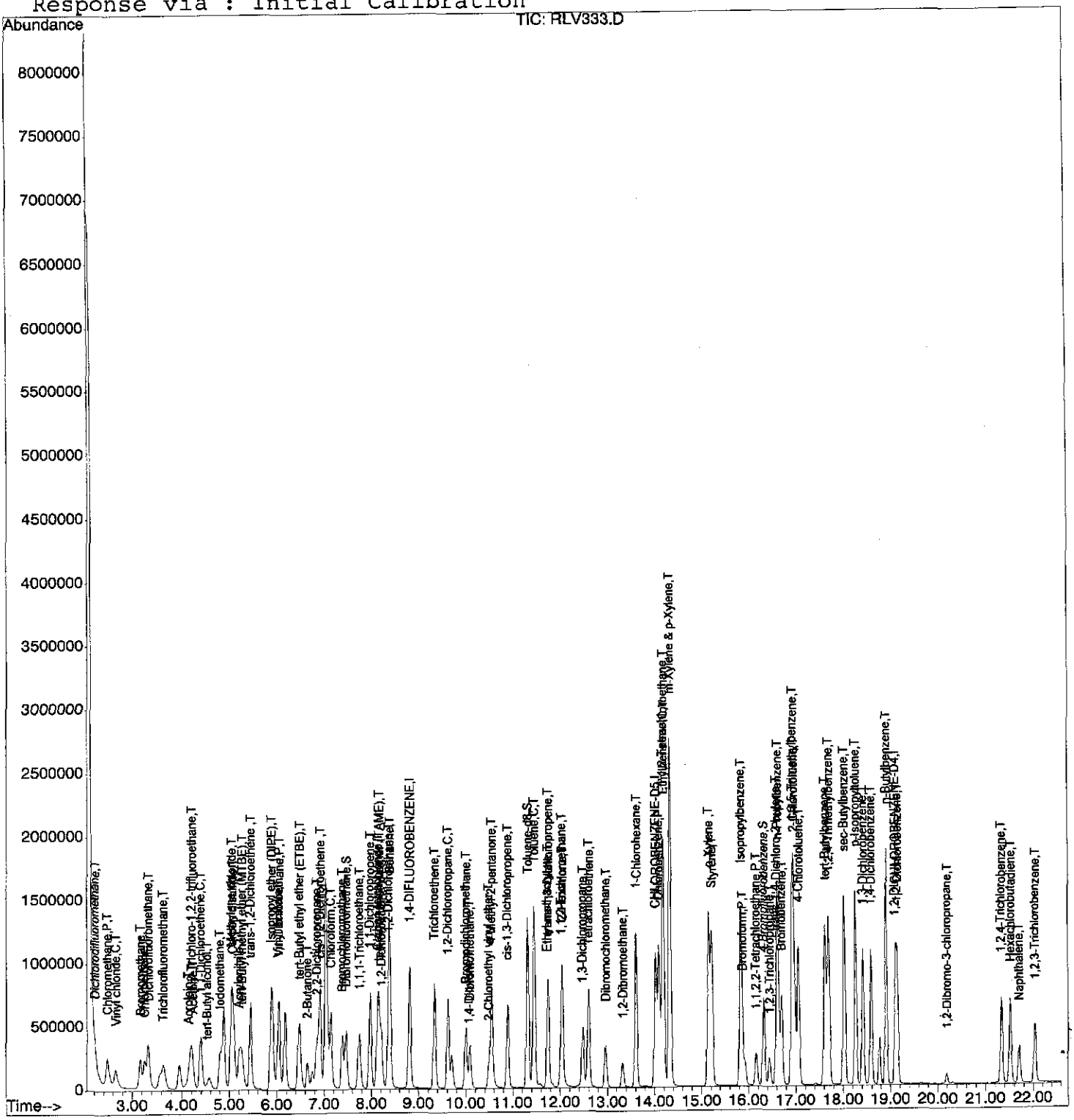
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SU 12/16/10

2226

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1462796	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.03	117	1286572	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	460619	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	949996	21.67 ug/l	0.00
Spiked Amount 10.000			Recovery	= 216.70%	
40) 1,2-Dichloroethane-d4	8.23	65	747616	21.81 ug/l	0.02
Spiked Amount 10.000			Recovery	= 218.10%	
55) Toluene-d8	11.32	98	3406958	20.33 ug/l	0.00
Spiked Amount 10.000			Recovery	= 203.30%	
76) 4-Bromofluorobenzene	16.32	95	1097379	21.01 ug/l	0.00
Spiked Amount 10.000			Recovery	= 210.10%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	541111	21.14 ug/l	98
4) Chloromethane	2.48	50	1059040	20.20 ug/l	100
5) Vinyl chloride	2.65	62	664583	15.56 ug/l	100
6) Bromomethane	3.18	94	671640	21.15 ug/l	100
7) Chloroethane	3.25	64	688713	20.20 ug/l	99
8) Dichlorofluoromethane	3.34	67	1698587	19.82 ug/l	100
9) Trichlorofluoromethane	3.64	101	1034571	21.27 ug/l	99
11) Acrolein	4.14	56	236745	100.63 ug/l	92
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	462736	19.86 ug/l	99
13) Acetone	4.23	43	598888	103.78 ug/l	99
14) 1,1-Dichloroethene	4.39	61	1343223	19.95 ug/l	100
15) tert-Butyl alcohol	4.53	59	229627	106.98 ug/l	95
17) Iodomethane	4.82	142	1443462	20.34 ug/l	99
19) Methylene chloride	5.04	49	1312567	18.74 ug/l	99
20) Carbon disulfide	5.07	76	3574104	20.33 ug/l	100
21) Acrylonitrile	5.21	53	788536	103.17 ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	1379545	20.74 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	1534875	20.34 ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	3774471	20.39 ug/l	100
25) Vinyl acetate	6.05	43	1477337	21.67 ug/l	99
26) 1,1-Dichloroethane	6.05	63	1852890	20.05 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	2272018	20.62 ug/l	100
29) 2-Butanone	6.64	43	1139187	105.28 ug/l	99
30) 2,2-Dichloropropane	6.86	77	1087343	19.52 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	1096009	20.23 ug/l	99
32) Chloroform	7.15	83	1622115	20.34 ug/l	99
33) Bromochloromethane	7.40	49	823064	20.56 ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV334.D VO01L11.M Mon Dec 13 08:03:12 2010

SCL 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	1168510	20.21 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	350332	21.44 ug/l	96
42) 1,1-Dichloropropene	7.97	110	471727	19.08 ug/l	99
43) Carbon tetrachloride	8.14	119	942390	19.37 ug/l	99
44) 1,2-Dichloroethane	8.36	62	872422	20.23 ug/l	99
45) Benzene	8.39	78	3942585	19.68 ug/l	100
46) Trichloroethene	9.34	130	1055661	19.87 ug/l	99
48) 1,2-Dichloropropane	9.63	63	1108950	20.06 ug/l	100
49) 1,4-Dioxane	10.05	88	72019	412.40 ug/l	100
50) Bromodichloromethane	10.00	83	1189788	20.11 ug/l	99
51) Dibromomethane	10.09	93	425061	20.10 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	285271	20.83 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	2934663	103.56 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	1489774	19.93 ug/l	100
56) Toluene	11.45	91	3986303	19.48 ug/l	100
57) Ethyl methacrylate	11.73	69	815969	20.46 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	1067740	20.27 ug/l	100
59) 2-Hexanone	12.04	43	1827147	103.60 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	571092	20.20 ug/l	99
61) 1,3-Dichloropropane	12.47	76	1123521	20.24 ug/l	100
62) Tetrachloroethene	12.61	164	781300	19.55 ug/l	99
63) Dibromochloromethane	12.96	129	719818	20.68 ug/l	100
64) 1,2-Dibromoethane	13.33	107	565146	20.36 ug/l	99
65) 1-Chlorohexane	13.61	91	1619603	19.33 ug/l	100
66) Chlorobenzene	14.09	112	2466486	20.13 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	795080	20.16 ug/l	98
68) Ethylbenzene	14.19	91	4484327	19.22 ug/l	99
69) m-Xylene & p-Xylene	14.34	91	6547188	38.06 ug/l	100
70) o-Xylene	15.15	91	3276862	19.58 ug/l	100
71) Styrene	15.22	104	2568523	20.37 ug/l	99
73) Isopropylbenzene	15.83	105	3933310	19.44 ug/l	100
74) Bromoform	15.88	173	360471	21.15 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	654615	19.85 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	152425	18.37 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.59	53	175487	20.61 ug/l	100
79) n-Propylbenzene	16.62	91	5267787	19.62 ug/l	100
80) Bromobenzene	16.70	156	845602	20.00 ug/l	99
81) 1,3,5-Trimethylbenzene	16.93	105	3145604	19.75 ug/l	100
82) 2-Chlorotoluene	16.96	91	3129319	19.14 ug/l	99
83) 4-Chlorotoluene	17.04	91	2869382	20.39 ug/l	100
84) tert-Butylbenzene	17.62	134	706469	19.54 ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV334.D VO01L11.M Mon Dec 13 08:03:13 2010

SA 12/16/10

2228

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	3104159	19.74 ug/l	100
86) sec-Butylbenzene	18.02	105	4284542	19.32 ug/l	100
87) p-Isopropyltoluene	18.26	119	3304138	19.52 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	1707758	19.99 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	1647955	20.08 ug/l	99
90) n-Butylbenzene	18.91	91	3491997	19.69 ug/l	100
91) 1,2-Dichlorobenzene	19.15	146	1377853	19.86 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	83856	20.39 ug/l	99
93) 1,2,4-Trichlorobenzene	21.34	180	846651	20.07 ug/l	100
94) Hexachlorobutadiene	21.51	225	525411	19.50 ug/l	99
95) Naphthalene	21.71	128	1018113	20.86 ug/l	99
96) 1,2,3-Trichlorobenzene	22.05	180	660831	19.58 ug/l	99

SM 12/16/10

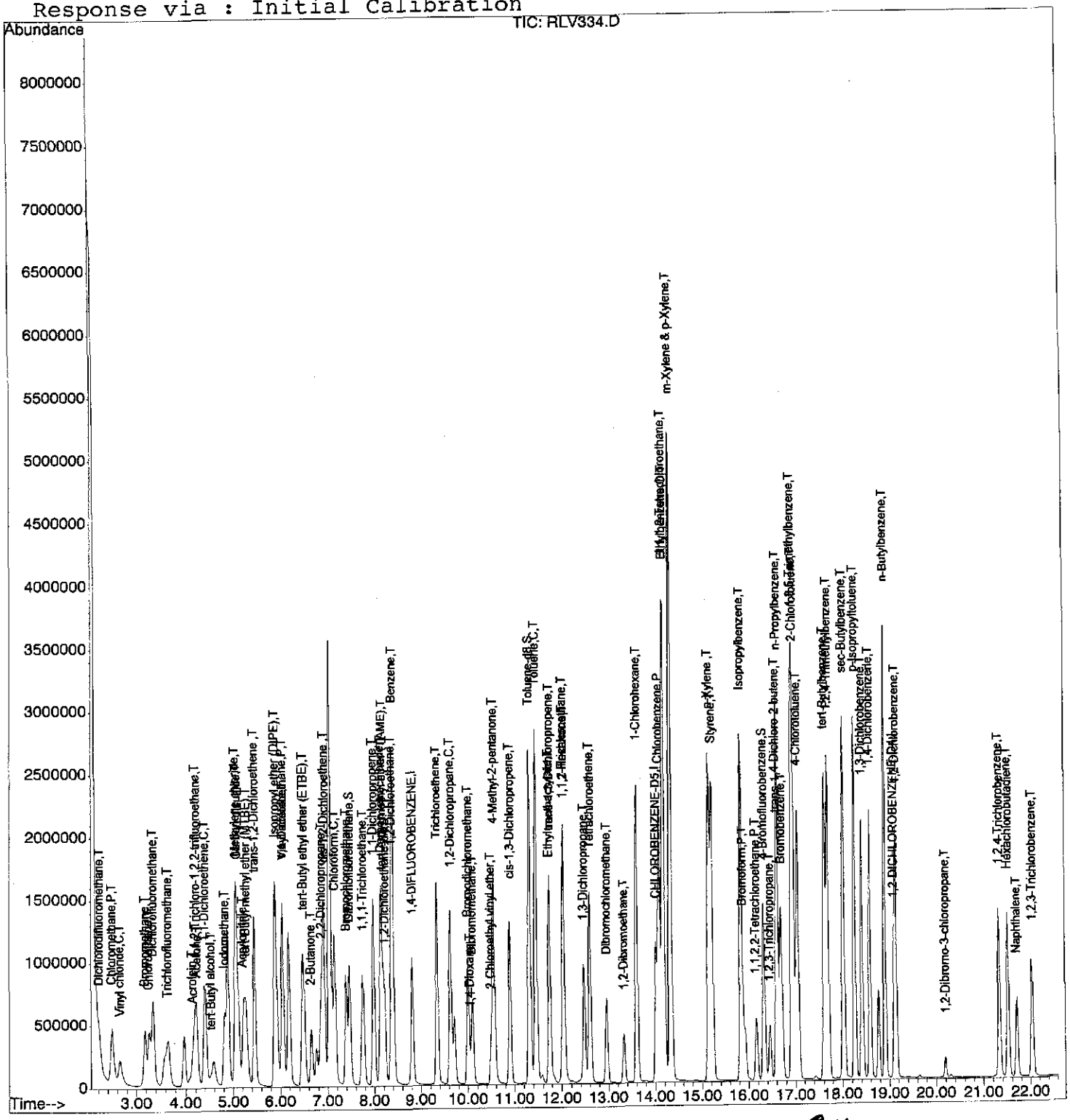
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Su 12/16/10

2230

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1424069	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1222352	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	437491	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	1388356	32.54 ug/l	0.00
Spiked Amount 10.000			Recovery	= 325.40%	
40) 1,2-Dichloroethane-d4	8.22	65	1077577	32.29 ug/l	0.02
Spiked Amount 10.000			Recovery	= 322.90%	
55) Toluene-d8	11.32	98	4952292	31.10 ug/l	0.00
Spiked Amount 10.000			Recovery	= 311.00%	
76) 4-Bromofluorobenzene	16.32	95	1599381	32.24 ug/l	0.00
Spiked Amount 10.000			Recovery	= 322.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	717981	28.82 ug/l	99
4) Chloromethane	2.48	50	1410323	27.63 ug/l	100
5) Vinyl chloride	2.66	62	840799	20.22 ug/l	100
6) Bromomethane	3.18	94	910549	29.45 ug/l	99
7) Chloroethane	3.25	64	930741	28.04 ug/l	98
8) Dichlorofluoromethane	3.34	67	2531336	30.35 ug/l	99
9) Trichlorofluoromethane	3.64	101	1421587	30.02 ug/l	100
11) Acrolein	4.14	56	347185	151.58 ug/l	99
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	701469	30.93 ug/l	99
13) Acetone	4.23	43	887651	158.01 ug/l	100
14) 1,1-Dichloroethene	4.41	61	2010933	30.68 ug/l	99
15) tert-Butyl alcohol	4.53	59	350076	167.53 ug/l	94
17) Iodomethane	4.82	142	2165147	31.34 ug/l	99
19) Methylene chloride	5.04	49	1934673	28.37 ug/l	99
20) Carbon disulfide	5.07	76	5243400	30.56 ug/l	100
21) Acrylonitrile	5.22	53	1189075	159.81 ug/l	100
22) tert-Butyl methyl ether (M	5.27	73	2052600	31.70 ug/l	98
23) trans-1,2-Dichloroethene	5.46	61	2288025	31.15 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	5713494	31.71 ug/l	100
25) Vinyl acetate	6.05	43	2075815	31.27 ug/l	98
26) 1,1-Dichloroethane	6.05	63	2806025	31.19 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	3334901	31.09 ug/l	100
29) 2-Butanone	6.64	43	1670490	158.58 ug/l	99
30) 2,2-Dichloropropane	6.86	77	1612668	29.74 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	1657120	31.41 ug/l	100
32) Chloroform	7.14	83	2429202	31.29 ug/l	99
33) Bromochloromethane	7.40	49	1247909	32.03 ug/l	98

(#) = qualifier out of range (m) = manual integration

SW 12/16/10

2231

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	1752312	31.13 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	513214	32.27 ug/l	95
42) 1,1-Dichloropropene	7.99	110	705634	30.05 ug/l	99
43) Carbon tetrachloride	8.14	119	1421493	30.75 ug/l	100
44) 1,2-Dichloroethane	8.36	62	1293897	31.58 ug/l	100
45) Benzene	8.39	78	5830498	30.64 ug/l	100
46) Trichloroethene	9.35	130	1582183	31.35 ug/l	99
48) 1,2-Dichloropropane	9.63	63	1661211	31.63 ug/l	100
49) 1,4-Dioxane	10.04	88	115766	697.74 ug/l	95
50) Bromodichloromethane	10.00	83	1804643	32.11 ug/l	99
51) Dibromomethane	10.09	93	643233	32.01 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	419912	32.27 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	4309150	160.06 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	2263367	31.86 ug/l	100
56) Toluene	11.46	91	5901061	30.35 ug/l	100
57) Ethyl methacrylate	11.73	69	1218438	32.15 ug/l	100
58) trans-1,3-Dichloropropene	11.76	75	1617868	32.32 ug/l	100
59) 2-Hexanone	12.04	43	2720427	162.35 ug/l	100
60) 1,1,2-Trichloroethane	12.04	97	851518	31.71 ug/l	99
61) 1,3-Dichloropropane	12.49	76	1678523	31.83 ug/l	99
62) Tetrachloroethene	12.60	164	1155166	30.42 ug/l	99
63) Dibromochloromethane	12.96	129	1087190	32.87 ug/l	100
64) 1,2-Dibromoethane	13.33	107	854712	32.41 ug/l	99
65) 1-Chlorohexane	13.61	91	2394787	30.09 ug/l	99
66) Chlorobenzene	14.10	112	3645529	31.32 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	1188415	31.72 ug/l	99
68) Ethylbenzene	14.19	91	6701125	30.24 ug/l	100
69) m-Xylene & p-Xylene	14.34	91	9725972	59.50 ug/l	100
70) o-Xylene	15.15	91	4969148	31.26 ug/l	100
71) Styrene	15.22	104	3857812	32.20 ug/l	100
73) Isopropylbenzene	15.84	105	5928559	30.86 ug/l	100
74) Bromoform	15.87	173	551838	34.10 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	994024	31.73 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	233326	29.60 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.58	53	265826	32.88 ug/l	98
79) n-Propylbenzene	16.61	91	7873943	30.87 ug/l	100
80) Bromobenzene	16.70	156	1294569	32.23 ug/l	98
81) 1,3,5-Trimethylbenzene	16.92	105	4698262	31.05 ug/l	100
82) 2-Chlorotoluene	16.97	91	4961929	31.96 ug/l	96
83) 4-Chlorotoluene	17.06	91	4057482	30.35 ug/l	95
84) tert-Butylbenzene	17.62	134	1061797	30.92 ug/l	99

(#) = qualifier out of range (m) = manual integration

SO 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	4666365	31.25 ug/l	100
86) sec-Butylbenzene	18.02	105	6393652	30.35 ug/l	100
87) p-Isopropyltoluene	18.26	119	4938331	30.72 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	2555113	31.50 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	2442056	31.33 ug/l	99
90) n-Butylbenzene	18.91	91	5154055	30.59 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	2062235	31.30 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.19	157	125607	32.16 ug/l	99
93) 1,2,4-Trichlorobenzene	21.33	180	1234711	30.82 ug/l	99
94) Hexachlorobutadiene	21.53	225	779122	30.44 ug/l	99
95) Naphthalene	21.70	128	1545295	33.33 ug/l	99
96) 1,2,3-Trichlorobenzene	22.04	180	966141	30.15 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV335.D VO01L11.M Mon Dec 13 08:03:27 2010

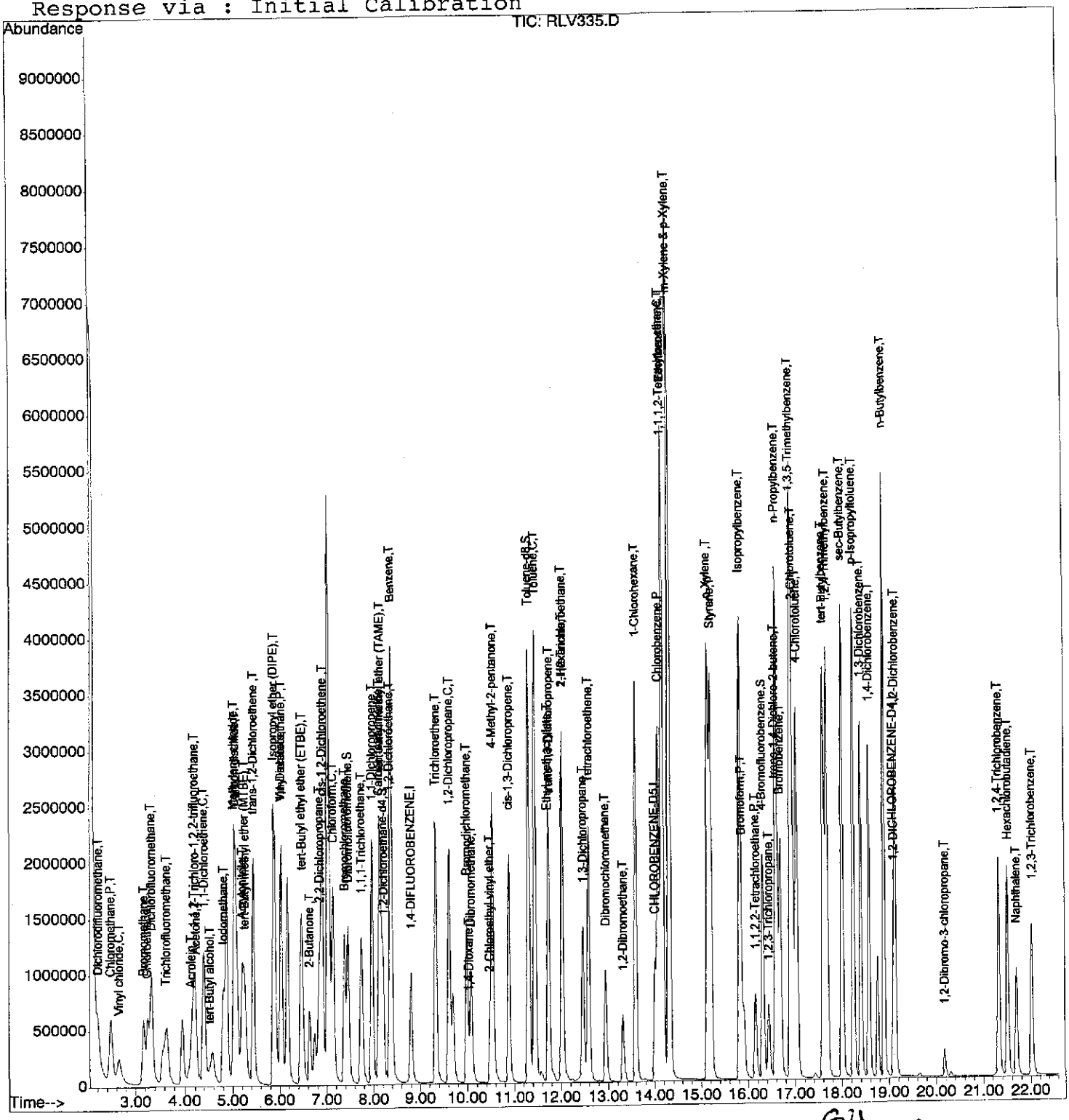
SU 12/16/10

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SZ 12/16/10

2234

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1532426	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1308630	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	460906	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	2241281	48.81 ug/l	0.00
Spiked Amount 10.000			Recovery	= 488.10%	
40) 1,2-Dichloroethane-d4	8.22	65	1750269	48.74 ug/l	0.02
Spiked Amount 10.000			Recovery	= 487.40%	
55) Toluene-d8	11.32	98	8061704	47.29 ug/l	0.00
Spiked Amount 10.000			Recovery	= 472.90%	
76) 4-Bromofluorobenzene	16.32	95	2572198	49.21 ug/l	0.00
Spiked Amount 10.000			Recovery	= 492.10%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	1216125	45.36 ug/l	99
4) Chloromethane	2.48	50	2386879	43.46 ug/l	99
5) Vinyl chloride	2.65	62	1116943	24.96 ug/l	99
6) Bromomethane	3.18	94	1538057	46.22 ug/l	100
7) Chloroethane	3.25	64	1596244	44.69 ug/l	99
8) Dichlorofluoromethane	3.34	67	4241606	47.25 ug/l	100
9) Trichlorofluoromethane	3.64	101	2364104	46.40 ug/l	100
11) Acrolein	4.14	56	585757	237.66 ug/l	99
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	1128096	46.22 ug/l	98
13) Acetone	4.23	43	1420791	235.03 ug/l	99
14) 1,1-Dichloroethene	4.39	61	3326404	47.16 ug/l	100
15) tert-Butyl alcohol	4.53	59	554676	246.68 ug/l	98
17) Iodomethane	4.82	142	3620835	48.71 ug/l	99
19) Methylene chloride	5.04	49	3203866	43.65 ug/l	99
20) Carbon disulfide	5.07	76	8890220	48.07 ug/l	100
21) Acrylonitrile	5.22	53	1929444	240.98 ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	3362288	48.25 ug/l	98
23) trans-1,2-Dichloroethene	5.44	61	3805114	48.14 ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	9265441	47.79 ug/l	100
25) Vinyl acetate	6.05	43	3347374	46.86 ug/l	98
26) 1,1-Dichloroethane	6.05	63	4666587	48.20 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	5434013	47.07 ug/l	100
29) 2-Butanone	6.64	43	2753036	242.87 ug/l	99
30) 2,2-Dichloropropane	6.86	77	2550691	43.72 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	2761969	48.66 ug/l	99
32) Chloroform	7.14	83	4072011	48.74 ug/l	99
33) Bromochloromethane	7.40	49	2039891	48.65 ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV337.D VO01L11.M Mon Dec 13 08:03:41 2010

12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	2866917	47.33 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	809886	47.32 ug/l	97
42) 1,1-Dichloropropene	7.99	110	1154182	45.91 ug/l	98
43) Carbon tetrachloride	8.14	119	2351925	47.52 ug/l	100
44) 1,2-Dichloroethane	8.36	62	2152677	49.07 ug/l	100
45) Benzene	8.39	78	9786654	48.04 ug/l	99
46) Trichloroethene	9.35	130	2663565	49.29 ug/l	100
48) 1,2-Dichloropropane	9.63	63	2707514	48.15 ug/l	99
49) 1,4-Dioxane	10.04	88	184306	1037.60 ug/l	97
50) Bromodichloromethane	10.00	83	2978276	49.50 ug/l	99
51) Dibromomethane	10.09	93	1058899	49.22 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	692195	49.69 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	7033833	244.04 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	3712675	48.82 ug/l	99
56) Toluene	11.45	91	9871566	47.43 ug/l	100
57) Ethyl methacrylate	11.73	69	1974448	48.66 ug/l	100
58) trans-1,3-Dichloropropene	11.76	75	2636472	49.20 ug/l	99
59) 2-Hexanone	12.04	43	4308003	240.15 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	1365684	47.50 ug/l	99
61) 1,3-Dichloropropane	12.49	76	2720250	48.18 ug/l	99
62) Tetrachloroethene	12.60	164	1938810	47.68 ug/l	99
63) Dibromochloromethane	12.96	129	1778063	50.21 ug/l	100
64) 1,2-Dibromoethane	13.33	107	1394326	49.38 ug/l	100
65) 1-Chlorohexane	13.61	91	3904315	45.82 ug/l	99
66) Chlorobenzene	14.10	112	5958899	47.82 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	1912573	47.68 ug/l	98
68) Ethylbenzene	14.19	91	10704775	45.11 ug/l	100
69) m-Xylene & p-Xylene	14.34	91	15903531	90.88 ug/l	99
70) o-Xylene	15.15	91	8040449	47.24 ug/l	99
71) Styrene	15.22	104	6344269	49.46 ug/l	99
73) Isopropylbenzene	15.84	105	9454756	46.71 ug/l	100
74) Bromoform	15.87	173	883311	51.80 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	1577742	47.80 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	364028	43.84 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.58	53	414467	48.66 ug/l	97
79) n-Propylbenzene	16.61	91	12761471	47.49 ug/l	100
80) Bromobenzene	16.70	156	2100315	49.64 ug/l	98
81) 1,3,5-Trimethylbenzene	16.92	105	7516042	47.15 ug/l	100
82) 2-Chlorotoluene	16.95	91	8029002	49.08 ug/l	96
83) 4-Chlorotoluene	17.06	91	6542406	46.46 ug/l	95
84) tert-Butylbenzene	17.62	134	1688221	46.66 ug/l	100

(#) = qualifier out of range (m) = manual integration

BU 12/16/10

2236

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	7590366	48.24 ug/l	100
86) sec-Butylbenzene	18.02	105	10348947	46.64 ug/l	100
87) p-Isopropyltoluene	18.26	119	8005119	47.27 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	4172517	48.82 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	4020250	48.96 ug/l	99
90) n-Butylbenzene	18.91	91	8196362	46.18 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	3344740	48.19 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.19	157	199487	48.49 ug/l	98
93) 1,2,4-Trichlorobenzene	21.33	180	2030919	48.11 ug/l	99
94) Hexachlorobutadiene	21.51	225	1263439	46.86 ug/l	99
95) Naphthalene	21.70	128	2582709	52.87 ug/l	100
96) 1,2,3-Trichlorobenzene	22.04	180	1590317	47.10 ug/l	100

5 ug 12/16/10

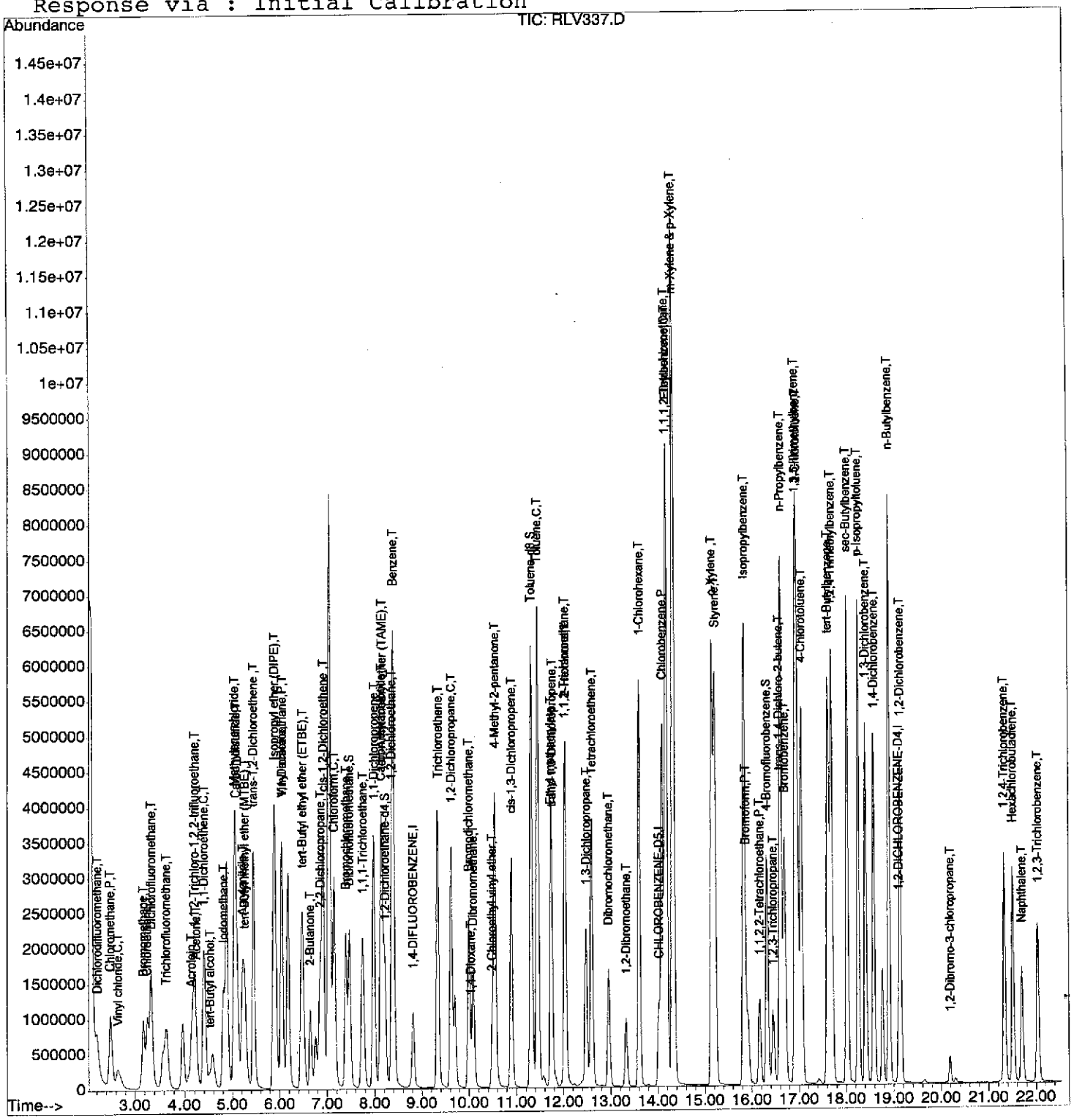
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2238

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1670619	10.00	ug/l	-0.01
41) CHLOROBENZENE-D5	14.03	117	1448218	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.12	152	499066	10.00	ug/l	0.02
System Monitoring Compounds						
34) Dibromofluoromethane	7.46	111	4427349	88.45	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	884.50%	
40) 1,2-Dichloroethane-d4	8.21	65	3479407	88.88	ug/l	0.00
Spiked Amount 10.000			Recovery	=	888.80%	
55) Toluene-d8	11.32	98	15291063	81.05	ug/l	0.00
Spiked Amount 10.000			Recovery	=	810.50%	
76) 4-Bromofluorobenzene	16.32	95	4896974	86.53	ug/l	0.00
Spiked Amount 10.000			Recovery	=	865.30%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.20	85	2371168	81.13	ug/l	100
4) Chloromethane	2.48	50	4407254	73.61	ug/l	99
5) Vinyl chloride	2.62	62	1818156	37.27	ug/l	100
6) Bromomethane	3.17	94	2839477	78.28	ug/l	100
7) Chloroethane	3.24	64	2827929	72.63	ug/l	98
8) Dichlorofluoromethane	3.33	67	7666261	78.34	ug/l	100
9) Trichlorofluoromethane	3.62	101	4398771	79.19	ug/l	100
11) Acrolein	4.13	56	1160449	431.89	ug/l	90
12) 1,1,2-Trichloro-1,2,2-trif	4.17	151	2108812	79.26	ug/l	98
13) Acetone	4.22	43	2814772	427.11	ug/l	99
14) 1,1-Dichloroethene	4.39	61	6115332	79.52	ug/l	99
15) tert-Butyl alcohol	4.53	59	1117106	455.71	ug/l	97
17) Iodomethane	4.81	142	6823670	84.20	ug/l	99
19) Methylene chloride	5.03	49	5982874	74.78	ug/l	98
20) Carbon disulfide	5.07	76	16730807	82.87	ug/l	100
21) Acrylonitrile	5.21	53	3862408	442.50	ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	6448827	84.90	ug/l	98
23) trans-1,2-Dichloroethene	5.43	61	7027563	81.55	ug/l	99
24) Isopropyl ether (DIPE)	5.87	45	17785222	84.14	ug/l	100
25) Vinyl acetate	6.04	43	6358794	81.65	ug/l	98
26) 1,1-Dichloroethane	6.04	63	8654285	82.00	ug/l	100
28) tert-Butyl ethyl ether (ET	6.46	59	10372425	82.42	ug/l	100
29) 2-Butanone	6.64	43	5511883	446.03	ug/l	99
30) 2,2-Dichloropropane	6.85	77	4648772	73.09	ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	5142106	83.09	ug/l	99
32) Chloroform	7.15	83	7730108	84.88	ug/l	99
33) Bromochloromethane	7.38	49	3868980	84.64	ug/l	97

(#) = qualifier out of range (m) = manual integration
RLV338.D VO01L11.M Mon Dec 13 08:03:56 2010

SA 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	5470501	82.84 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	1510131	80.94 ug/l	96
42) 1,1-Dichloropropene	7.97	110	2170534	78.01 ug/l	98
43) Carbon tetrachloride	8.12	119	4483467	81.85 ug/l	100
44) 1,2-Dichloroethane	8.36	62	4074210	83.93 ug/l	100
45) Benzene	8.39	78	17981775	79.75 ug/l	99
46) Trichloroethene	9.34	130	4931504	82.47 ug/l	99
48) 1,2-Dichloropropane	9.62	63	5154180	82.82 ug/l	97
49) 1,4-Dioxane	10.03	88	352724	1794.35 ug/l	95
50) Bromodichloromethane	10.00	83	5690042	85.46 ug/l	99
51) Dibromomethane	10.09	93	2040033	85.68 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	1409733	91.44 ug/l	100
53) 4-Methyl-2-pentanone	10.53	43	13846992	434.12 ug/l	100
54) cis-1,3-Dichloropropene	10.89	75	7117960	84.58 ug/l	99
56) Toluene	11.45	91	18048155	78.35 ug/l	100
57) Ethyl methacrylate	11.73	69	3795974	84.54 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	5013769	84.54 ug/l	99
59) 2-Hexanone	12.04	43	8493902	427.85 ug/l	99
60) 1,1,2-Trichloroethane	12.03	97	2625743	82.53 ug/l	99
61) 1,3-Dichloropropane	12.47	76	5227661	83.67 ug/l	99
62) Tetrachloroethene	12.61	164	3551946	78.94 ug/l	100
63) Dibromochloromethane	12.96	129	3421748	87.32 ug/l	99
64) 1,2-Dibromoethane	13.33	107	2677463	85.68 ug/l	99
65) 1-Chlorohexane	13.61	91	7117737	75.48 ug/l	99
66) Chlorobenzene	14.10	112	11206238	81.27 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.17	131	3569616	80.41 ug/l	97
68) Ethylbenzene	14.19	91	19347253	73.68 ug/l	99
69) m-Xylene & p-Xylene	14.34	91	25946403	133.98 ug/l	99
70) o-Xylene	15.15	91	14882228	79.01 ug/l	99
71) Styrene	15.22	104	11837047	83.39 ug/l	99
73) Isopropylbenzene	15.85	105	16877882	77.01 ug/l	100
74) Bromoform	15.88	173	1686738	91.36 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	2977416	83.31 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	693414	77.12 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.59	53	768090	83.28 ug/l	94
79) n-Propylbenzene	16.61	91	22370308	76.89 ug/l	100
80) Bromobenzene	16.70	156	3935026	85.89 ug/l	97
81) 1,3,5-Trimethylbenzene	16.93	105	13192328	76.44 ug/l	100
82) 2-Chlorotoluene	16.97	91	14093878	79.57 ug/l	96
83) 4-Chlorotoluene	17.06	91	11920766	78.18 ug/l	94
84) tert-Butylbenzene	17.62	134	3066699	78.28 ug/l	100

(#) = qualifier out of range (m) = manual integration
RLV338.D VO01L11.M Mon Dec 13 08:03:56 2010

SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	13608985	79.88 ug/l	100
86) sec-Butylbenzene	18.02	105	18509882	77.04 ug/l	100
87) p-Isopropyltoluene	18.26	119	14186806	77.37 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	7682528	83.02 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	7353516	82.71 ug/l	99
90) n-Butylbenzene	18.91	91	14503886	75.47 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	6242907	83.07 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	404243	90.74 ug/l	97
93) 1,2,4-Trichlorobenzene	21.33	180	3897516	85.27 ug/l	99
94) Hexachlorobutadiene	21.51	225	2387488	81.78 ug/l	99
95) Naphthalene	21.70	128	5237601	99.03 ug/l	100
96) 1,2,3-Trichlorobenzene	22.05	180	3107836	85.01 ug/l	99

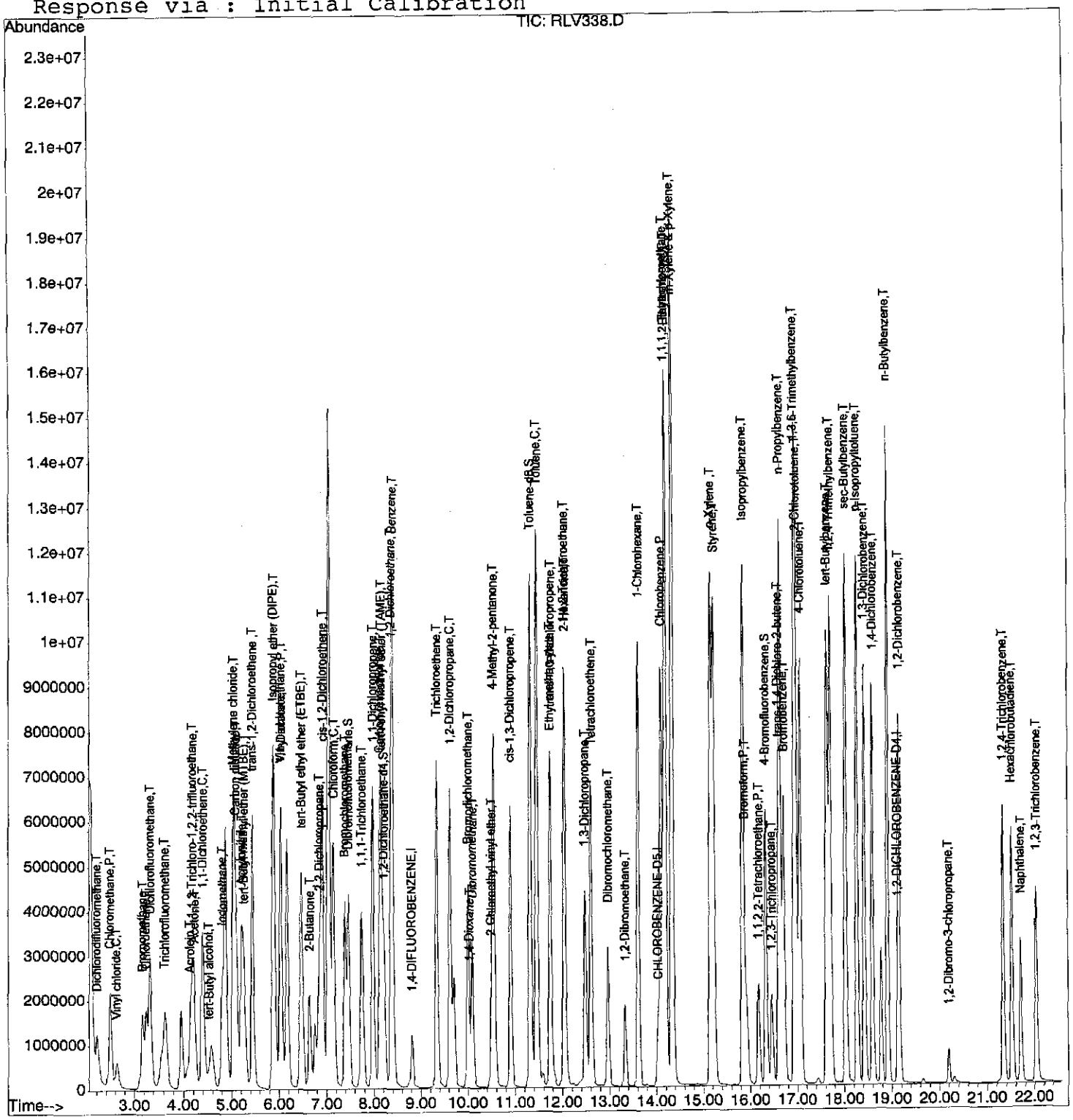
SC 12/16/10

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D Vial: 12
Acq On : 11 Dec 2010 3:24 pm Operator: DN
Sample : VO01L1111 100ppb Inst : TO01
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SU 12/16/10

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SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T001
IC_Beginning DateTime :12/11/10 09:56
Spike Amount :10 PPB
CC/CV File :RLV341
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :12/11/10 15:24
HPChem Method :V001L11
Date_Time :12/11/10 17:01

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1441268	1	1	8.817	8.813	0				
	2	Dichlorodifluoromethane	9.811	-1.9	247380	0.172	0.175	2.218	2.216	9.01				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.420	4.2	513603	0.356	0.342	2.484	2.479	12.16				
	5	Vinyl chloride	8.919	-10.8	375385	0.260	0.292	2.647	2.650	14.06				
	6	Bromomethane	10.831	8.3	338949	0.235	0.217	3.180	3.170	11.37				
	7	Chloroethane	10.651	6.5	347910	0.241	0.227	3.254	3.251	11.96				
	8	Dichlorofluoromethane	10.136	1.4	855719	0.594	0.586	3.343	3.336	8.78				
	9	Trichlorofluoromethane	10.078	0.8	482948	0.335	0.332	3.639	3.632	9.45				
5	10	sec-Propyl alcohol												
5	11	Acrolein	51.451	2.9	119492	0.017	0.016	4.142	4.139	7.57				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.530	-4.7	218750	0.152	0.159	4.201	4.195	8.56				
5	13	Acetone	51.089	2.2	290469	0.040	0.039	4.231	4.229	7.47				
	14	1,1-Dichloroethene	9.961	-0.4	660776	0.458	0.460	4.393	4.395	8.36				
5	15	tert-Butyl alcohol	55.129	10.3	116541	0.016	0.015	4.526	4.535	6.55				
	16	Acetonitrile												
	17	Iodomethane	10.423	4.2	728506	0.505	0.485	4.808	4.814	6.50				
	18	Methyl acetate												
	19	Methylene chloride	9.456	-5.4	652718	0.453	0.479	5.044	5.042	14.28				
	20	Carbon disulfide	10.804	8.0	1858853	1.290	1.122	5.074	5.073	18.20	-0.0182	1.2106		0.9987
5	21	Acrylonitrile	50.918	1.8	383180	0.053	0.052	5.207	5.214	5.64				
	22	tert-Butyl methyl ether (MTBE)	10.408	4.1	682062	0.473	0.455	5.266	5.276	6.60				
	23	trans-1,2-Dichloroethene	10.121	1.2	752336	0.522	0.516	5.444	5.444	7.26				
	24	Isopropyl ether (DIPE)	10.377	3.8	1892189	1.313	1.265	5.888	5.897	6.33				
	25	Vinyl acetate	10.668	6.7	714287	0.496	0.465	6.036	6.045	9.23				
	26	1,1-Dichloroethane	10.193	1.9	928069	0.644	0.632	6.050	6.047	7.19				
5	27	2-Butanol												
	28	tert-Butyl ethyl ether (ETBE)	10.505	5.0	1140580	0.791	0.753	6.479	6.486	7.38				
5	29	2-Butanone	51.518	3.0	548469	0.076	0.074	6.657	6.653	5.70				
	30	2,2-Dichloropropane	8.922	-10.8	489415	0.340	0.381	6.864	6.857	12.09				
	31	cis-1,2-Dichloroethene	10.170	1.7	542952	0.377	0.370	6.923	6.917	6.52				
	32	Chloroform	10.272	2.7	807078	0.560	0.545	7.145	7.144	5.99				
	33	Bromochloromethane	10.525	5.3	415030	0.288	0.274	7.382	7.389	6.81				
	34	Dibromofluoromethane	11.205	12.0	483875	0.336	0.300	7.471	7.468	8.39				
	35	Tetrahydrofuran												
	36	1,1,1-Trichloroethane	9.978	-0.2	568490	0.394	0.395	7.752	7.748	6.94				
	37	Cyclohexane												
5	38	1-Butanol												
	39	tert-Amyl methyl ether (TAME)	10.885	8.8	175207	0.122	0.112	8.166	8.168	9.19				
	40	1,2-Dichloroethane-d4	11.265	12.7	380481	0.264	0.234	8.211	8.217	8.04				
	41	CHLOROBENZENE-D5	10.000	0	1268187	1	1	14.026	14.020	0				
	42	1,1-Dichloropropene	9.512	-4.9	231678	0.183	0.192	7.974	7.977	9.97				
	43	Carbon tetrachloride	9.429	-5.7	452292	0.357	0.378	8.137	8.134	7.86				
	44	1,2-Dichloroethane	10.351	3.5	440019	0.347	0.335	8.359	8.358	6.97				
	45	Benzene	9.992	-0.1	1972794	1.556	1.557	8.388	8.387	8.06				
	46	Trichloroethene	10.051	0.5	526161	0.415	0.413	9.335	9.337	7.10				
	47	Methylcyclohexane												
	48	1,2-Dichloropropane	10.146	1.5	552765	0.436	0.430	9.616	9.624	7.02				
20	49	1,4-Dioxane	210.064	5.0	36160	0.001	0.001	10.060	10.051	9.05				
	50	Bromodichloromethane	10.131	1.3	590694	0.466	0.460	10.001	9.999	6.30				
	51	Dibromomethane	10.150	1.5	211627	0.167	0.164	10.090	10.087	6.40				
N	52	2-Chloroethyl vinyl ether	10.108	1.1	136461	0.108	0.106	10.489	10.488	4.84				
N	53	4-Methyl-2-pentanone	50.616	1.2	1413511	0.223	0.220	10.549	10.553	6.01				
	54	cis-1,3-Dichloropropene	9.981	-0.2	735398	0.580	0.581	10.889	10.894	6.39				
	55	Toluene-d8	10.778	7.8	1780332	1.404	1.303	11.318	11.317	6.27				
	56	Toluene	9.842	-1.6	1985249	1.565	1.591	11.451	11.452	8.81				
	57	Ethyl methacrylate	10.442	4.4	410458	0.324	0.310	11.732	11.738	7.22				
	58	trans-1,3-Dichloropropene	10.202	2.0	529496	0.418	0.409	11.747	11.750	7.44				
5	59	2-Hexanone	50.525	1.0	878349	0.139	0.137	12.043	12.049	6.85				

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	60	1,1,2-Trichloroethane	10.315	3.1	287381	0.227	0.220	12.028	12.029	7.27				
	61	1,3-Dichloropropane	10.316	3.2	564370	0.445	0.431	12.472	12.474	6.84				
	62	Tetrachloroethene	9.721	-2.8	383027	0.302	0.311	12.605	12.603	8.80				
	63	Dibromochloromethane	10.420	4.2	357574	0.282	0.271	12.960	12.958	6.68				
	64	1,2-Dibromoethane	10.304	3.0	281963	0.222	0.216	13.330	13.325	6.57				
	65	1-Chlorohexane	9.529	-4.7	786927	0.621	0.651	13.611	13.607	10.53				
	66	Chlorobenzene	10.157	1.6	1226175	0.967	0.952	14.085	14.090	7.47				
	67	1,1,1,2-Tetrachloroethane	10.304	3.0	400565	0.316	0.307	14.174	14.168	8.36				
	68	Ethylbenzene	9.695	-3.0	2229329	1.758	1.813	14.188	14.184	4.94				
2	69	m-Xylene & p-Xylene	19.649	-1.8	3319552	1.309	1.332	14.321	14.325	4.55				
	70	o-Xylene	10.006	0.1	1650344	1.301	1.301	15.150	15.149	8.43				
	71	Styrene	10.533	5.3	1309154	1.032	0.980	15.224	15.217	7.59				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	456225	1	1	19.101	19.106	0				
	73	Isopropylbenzene	9.833	-1.7	1970393	4.319	4.392	15.831	15.834	9.38				
	74	Bromoform	10.479	4.8	176880	0.388	0.370	15.860	15.868	8.94				
	75	1,1,2,2-Tetrachloroethane	10.086	0.9	329499	0.722	0.716	16.156	16.160	6.57				
	76	4-Bromofluorobenzene	11.186	11.9	578733	1.269	1.134	16.319	16.318	7.80				
	77	1,2,3-Trichloropropane	9.842	-1.6	80909	0.177	0.180	16.452	16.451	14.17				
	78	trans-1,4-Dichloro-2-butene	9.620	-3.8	81130	0.178	0.185	16.585	16.584	7.64				
	79	n-Propylbenzene	9.741	-2.6	2591820	5.681	5.832	16.615	16.611	9.03				
	80	Bromobenzene	10.184	1.8	426714	0.935	0.918	16.704	16.700	5.85				
	81	1,3,5-Trimethylbenzene	9.986	-0.1	1574680	3.452	3.456	16.926	16.923	9.31				
	82	2-Chlorotoluene	9.790	-2.1	1585311	3.475	3.549	16.955	16.957	8.13				
	83	4-Chlorotoluene	10.102	1.0	1408398	3.087	3.056	17.044	17.050	8.71				
	84	tert-Butylbenzene	9.877	-1.2	353763	0.775	0.785	17.621	17.620	8.82				
	85	1,2,4-Trimethylbenzene	10.012	0.1	1559834	3.419	3.415	17.695	17.694	7.81				
	86	sec-Butylbenzene	9.743	-2.6	2139958	4.691	4.814	18.021	18.020	9.57				
	87	p-Isopropyltoluene	9.794	-2.1	1641999	3.599	3.675	18.257	18.256	9.11				
	88	1,3-Dichlorobenzene	10.097	1.0	854259	1.872	1.854	18.420	18.416	6.67				
	89	1,4-Dichlorobenzene	10.085	0.8	819779	1.797	1.782	18.583	18.586	6.58				
	90	n-Butylbenzene	9.579	-4.2	1683787	3.691	3.853	18.908	18.906	10.13				
	91	1,2-Dichlorobenzene	10.127	1.3	695958	1.525	1.506	19.145	19.144	6.68				
	92	1,2-Dibromo-3-chloropropane	10.405	4.0	42380	0.093	0.089	20.196	20.193	5.97				
	93	1,2,4-Trichlorobenzene	9.901	-1.0	413970	0.907	0.916	21.335	21.334	6.51				
	94	Hexachlorobutadiene	9.621	-3.8	256822	0.563	0.585	21.513	21.514	7.65				
	95	Naphthalene	10.187	1.9	493053	1.081	1.061	21.705	21.702	6.04				
	96	1,2,3-Trichlorobenzene	9.814	-1.9	328132	0.719	0.733	22.030	22.038	7.34				

Spike Amount = Nominal Amount * M

Sq 2/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.811	1.9	90	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	97	0.00
4	P,T	Chloromethane	10.000	10.420	-4.2	97	0.00
5	C,T	Vinyl chloride	10.000	8.919	10.8	94	-0.01
6	T	Bromomethane	10.000	10.831	-8.3	100	0.00
7	T	Chloroethane	10.000	10.651	-6.5	100	0.00
8	T	Dichlorofluoromethane	10.000	10.136	-1.4	99	0.00
9	T	Trichlorofluoromethane	10.000	10.078	-0.8	96	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	101	0.00
11	T	Acrolein	50.000	51.451	-2.9	100	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.530	4.7	90	0.00
13	T	Acetone	50.000	51.089	-2.2	101	0.00
14	C,T	1,1-Dichloroethene	10.000	9.961	0.4	97	0.00
15	T	tert-Butyl alcohol	50.000	55.129	-10.3	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.423	-4.2	99	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	103	0.02
19	T	Methylene chloride	10.000	9.456	5.4	97	0.00
20	T	Carbon disulfide	10.000	10.804	-8.0	96	0.00
21	T	Acrylonitrile	50.000	50.918	-1.8	101	0.00
22	T	tert-Butyl methyl ether (MT	10.000	10.408	-4.1	100	0.00
23	T	trans-1,2-Dichloroethene	10.000	10.121	-1.2	99	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.377	-3.8	100	0.00
25	T	Vinyl acetate	10.000	10.668	-6.7	102	0.00
26	P,T	1,1-Dichloroethane	10.000	10.193	-1.9	99	0.00
27	T	2-Butanol	-1.000	0.000	0.0	95	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	10.505	-5.1	101	0.00
29	T	2-Butanone	50.000	51.518	-3.0	103	0.02
30	T	2,2-Dichloropropane	10.000	8.922	10.8	88	0.02
31	T	cis-1,2-Dichloroethene	10.000	10.170	-1.7	98	0.00
32	C,T	Chloroform	10.000	10.272	-2.7	101	0.00
33	T	Bromochloromethane	10.000	10.525	-5.3	100	0.00
34	S	Dibromofluoromethane	10.000	11.205	-12.1	105	0.00
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.978	0.2	98	0.00
37	T	Cyclohexane	-1.000	0.000	0.0	100	0.00
38	T	1-Butanol	-1.000	0.000	0.0	102	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	10.885	-8.8	104	0.00
40	S	1,2-Dichloroethane-d4	10.000	11.265	-12.7	107	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~102~~	~~0.00~~

(#) = Out of Range

12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.512	4.9	97	0.00
43	T	Carbon tetrachloride	10.000	9.429	5.7	95	0.00
44	T	1,2-Dichloroethane	10.000	10.351	-3.5	102	0.00
45	T	Benzene	10.000	9.992	0.1	100	0.00
46	T	Trichloroethene	10.000	10.051	-0.5	98	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	102	0.02
48	C,T	1,2-Dichloropropane	10.000	10.146	-1.5	101	0.00
49	T	1,4-Dioxane	200.000	210.064	-5.0	108	0.00
50	T	Bromodichloromethane	10.000	10.131	-1.3	99	0.00
51	T	Dibromomethane	10.000	10.150	-1.5	100	0.00
52	T	2-Chloroethyl vinyl ether	10.000	10.108	-1.1	101	0.00
53	T	4-Methyl-2-pentanone	50.000	50.616	-1.2	103	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.981	0.2	98	0.00
55	S	Toluene-d8	10.000	10.778	-7.8	105	0.00
56	C,T	Toluene	10.000	9.842	1.6	98	0.00
57	T	Ethyl methacrylate	10.000	10.442	-4.4	101	0.00
58	T	trans-1,3-Dichloropropene	10.000	10.202	-2.0	100	0.00
59	T	2-Hexanone	50.000	50.525	-1.0	102	0.00
60	T	1,1,2-Trichloroethane	10.000	10.315	-3.1	101	0.00
61	T	1,3-Dichloropropane	10.000	10.316	-3.2	101	0.00
62	T	Tetrachloroethene	10.000	9.721	2.8	97	0.00
63	T	Dibromochloromethane	10.000	10.420	-4.2	101	0.00
64	T	1,2-Dibromoethane	10.000	10.304	-3.0	101	0.00
65	T	1-Chlorohexane	10.000	9.529	4.7	94	0.00
66	P	Chlorobenzene	10.000	10.157	-1.6	99	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	10.304	-3.0	101	0.00
68	C,T	Ethylbenzene	10.000	9.695	3.0	98	0.00
69	T	m-Xylene & p-Xylene	20.000	19.649	1.8	98	0.00
70	T	o-Xylene	10.000	10.006	-0.1	97	0.00
71	T	Styrene	10.000	10.533	-5.3	100	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	101	0.00
73	T	Isopropylbenzene	10.000	9.833	1.7	97	0.00
74	P,T	Bromoform	10.000	10.479	-4.8	100	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	10.086	-0.9	101	0.00
76	S	4-Bromofluorobenzene	10.000	11.186	-11.9	107	0.00
77	T	1,2,3-Trichloropropane	10.000	9.842	1.6	104	0.00
78	T	trans-1,4-Dichloro-2-butene	10.000	9.620	3.8	93	0.00
79	T	n-Propylbenzene	10.000	9.742	2.6	96	0.00
80	T	Bromobenzene	10.000	10.184	-1.8	100	0.00
81	T	1,3,5-Trimethylbenzene	10.000	9.986	0.1	98	0.00

(#) = Out of Range

SCR 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.790	2.1	100	0.00
83	T	4-Chlorotoluene	10.000	10.102	-1.0	96	-0.01
84	T	tert-Butylbenzene	10.000	9.877	1.2	97	0.00
85	T	1,2,4-Trimethylbenzene	10.000	10.012	-0.1	97	0.00
86	T	sec-Butylbenzene	10.000	9.743	2.6	96	0.00
87	T	p-Isopropyltoluene	10.000	9.794	2.1	95	0.00
88	T	1,3-Dichlorobenzene	10.000	10.097	-1.0	99	0.00
89	T	1,4-Dichlorobenzene	10.000	10.085	-0.9	98	0.00
90	T	n-Butylbenzene	10.000	9.579	4.2	93	0.00
91	T	1,2-Dichlorobenzene	10.000	10.127	-1.3	99	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	10.405	-4.0	102	0.00
93	T	1,2,4-Trichlorobenzene	10.000	9.901	1.0	98	0.00
94	T	Hexachlorobutadiene	10.000	9.621	3.8	94	-0.01
95	T	Naphthalene	10.000	10.187	-1.9	104	0.00
96	T	1,2,3-Trichlorobenzene	10.000	9.814	1.9	99	-0.01

SC 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.175	0.172	1.7	90	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	97	0.00
4	P,T	Chloromethane	0.342	0.356	-4.1	97	0.00
5	C,T	Vinyl chloride	0.292	0.260	11.0	94	-0.01
6	T	Bromomethane	0.217	0.235	-8.3	100	0.00
7	T	Chloroethane	0.227	0.241	-6.2	100	0.00
8	T	Dichlorofluoromethane	0.586	0.594	-1.4	99	0.00
9	T	Trichlorofluoromethane	0.332	0.335	-0.9	96	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	101	0.00
11	T	Acrolein	0.016	0.017	-6.3	100	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.152	4.4	90	0.00
13	T	Acetone	0.039	0.040	-2.6	101	0.00
14	C,T	1,1-Dichloroethene	0.460	0.458	0.4	97	0.00
15	T	tert-Butyl alcohol	0.015	0.016	-6.7	114	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.505	-4.1	99	0.00
18	T	Methyl acetate	0.000	0.000	0.0	103	0.02
19	T	Methylene chloride	0.479	0.453	5.4	97	0.00
20	T	Carbon disulfide	1.122	1.290	-15.0	96	0.00
21	T	Acrylonitrile	0.052	0.053	-1.9	101	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.473	-4.0	100	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.522	-1.2	99	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.313	-3.8	100	0.00
25	T	Vinyl acetate	0.465	0.496	-6.7	102	0.00
26	P,T	1,1-Dichloroethane	0.632	0.644	-1.9	99	0.00
27	T	2-Butanol	0.000	0.000	0.0	95	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.791	-5.0	101	0.00
29	T	2-Butanone	0.074	0.076	-2.7	103	0.02
30	T	2,2-Dichloropropane	0.381	0.340	10.8	88	0.02
31	T	cis-1,2-Dichloroethene	0.370	0.377	-1.9	98	0.00
32	C,T	Chloroform	0.545	0.560	-2.8	101	0.00
33	T	Bromochloromethane	0.274	0.288	-5.1	100	0.00
34	S	Dibromofluoromethane	0.300	0.336	-12.0	105	0.00
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.394	0.3	98	0.00
37	T	Cyclohexane	0.000	0.000	0.0	100	0.00
38	T	1-Butanol	0.000	0.000	0.0	102	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.122	-8.9	104	0.00
40	S	1,2-Dichloroethane-d4	0.234	0.264	-12.8	107	0.00
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	102	0.00

(#) = Out of Range

SW 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.183	4.7	97	0.00
43	T	Carbon tetrachloride	0.378	0.357	5.6	95	0.00
44	T	1,2-Dichloroethane	0.335	0.347	-3.6	102	0.00
45	T	Benzene	1.557	1.556	0.1	100	0.00
46	T	Trichloroethene	0.413	0.415	-0.5	98	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	102	0.02
48	C,T	1,2-Dichloropropane	0.430	0.436	-1.4	101	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	108	0.00
50	T	Bromodichloromethane	0.460	0.466	-1.3	99	0.00
51	T	Dibromomethane	0.164	0.167	-1.8	100	0.00
52	T	2-Chloroethyl vinyl ether	0.106	0.108	-1.9	101	0.00
53	T	4-Methyl-2-pentanone	0.220	0.223	-1.4	103	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.580	0.2	98	0.00
55	S	Toluene-d8	1.303	1.404	-7.8	105	0.00
56	C,T	Toluene	1.591	1.565	1.6	98	0.00
57	T	Ethyl methacrylate	0.310	0.324	-4.5	101	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.418	-2.2	100	0.00
59	T	2-Hexanone	0.137	0.139	-1.5	102	0.00
60	T	1,1,2-Trichloroethane	0.220	0.227	-3.2	101	0.00
61	T	1,3-Dichloropropane	0.431	0.445	-3.2	101	0.00
62	T	Tetrachloroethene	0.311	0.302	2.9	97	0.00
63	T	Dibromochloromethane	0.271	0.282	-4.1	101	0.00
64	T	1,2-Dibromoethane	0.216	0.222	-2.8	101	0.00
65	T	1-Chlorohexane	0.651	0.621	4.6	94	0.00
66	P	Chlorobenzene	0.952	0.967	-1.6	99	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.316	-2.9	101	0.00
68	C,T	Ethylbenzene	1.813	1.758	3.0	98	0.00
69	T	m-Xylene & p-Xylene	1.332	1.309	1.7	98	0.00
70	T	o-Xylene	1.301	1.301	0.0	97	0.00
71	T	Styrene	0.980	1.032	-5.3	100	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	4.392	4.319	1.7	97	0.00
74	P,T	Bromoform	0.370	0.388	-4.9	100	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.722	-0.8	101	0.00
76	S	4-Bromofluorobenzene	1.134	1.269	-11.9	107	0.00
77	T	1,2,3-Trichloropropane	0.180	0.177	1.7	104	0.00
78	T	trans-1,4-Dichloro-2-butene	0.185	0.178	3.8	93	0.00
79	T	n-Propylbenzene	5.832	5.681	2.6	96	0.00
80	T	Bromobenzene	0.918	0.935	-1.9	100	0.00
81	T	1,3,5-Trimethylbenzene	3.456	3.452	0.1	98	0.00

(#) = Out of Range

SEC 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.475	2.1	100	0.00
83	T	4-Chlorotoluene	3.056	3.087	-1.0	96	-0.01
84	T	tert-Butylbenzene	0.785	0.775	1.3	97	0.00
85	T	1,2,4-Trimethylbenzene	3.415	3.419	-0.1	97	0.00
86	T	sec-Butylbenzene	4.814	4.691	2.6	96	0.00
87	T	p-Isopropyltoluene	3.675	3.599	2.1	95	0.00
88	T	1,3-Dichlorobenzene	1.854	1.872	-1.0	99	0.00
89	T	1,4-Dichlorobenzene	1.782	1.797	-0.8	98	0.00
90	T	n-Butylbenzene	3.853	3.691	4.2	93	0.00
91	T	1,2-Dichlorobenzene	1.506	1.525	-1.3	99	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.093	-4.5	102	0.00
93	T	1,2,4-Trichlorobenzene	0.916	0.907	1.0	98	0.00
94	T	Hexachlorobutadiene	0.585	0.563	3.8	94	-0.01
95	T	Naphthalene	1.061	1.081	-1.9	104	0.00
96	T	1,2,3-Trichlorobenzene	0.733	0.719	1.9	99	-0.01

SCW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1441268	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.03	117	1268187	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	456225	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	483875	11.20 ug/l	0.00
Spiked Amount 10.000			Recovery	= 112.00%	
40) 1,2-Dichloroethane-d4	8.21	65	380481	11.27 ug/l	0.00
Spiked Amount 10.000			Recovery	= 112.70%	
55) Toluene-d8	11.32	98	1780332	10.78 ug/l	0.00
Spiked Amount 10.000			Recovery	= 107.80%	
76) 4-Bromofluorobenzene	16.32	95	578733	11.19 ug/l	0.00
Spiked Amount 10.000			Recovery	= 111.90%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	247380	9.81 ug/l	98
4) Chloromethane	2.48	50	513603	10.42 ug/l	98
5) Vinyl chloride	2.65	62	375385	8.92 ug/l	100
6) Bromomethane	3.18	94	338949	10.83 ug/l	99
7) Chloroethane	3.25	64	347910	10.65 ug/l	100
8) Dichlorofluoromethane	3.34	67	855719	10.14 ug/l	100
9) Trichlorofluoromethane	3.64	101	482948	10.08 ug/l	99
11) Acrolein	4.14	56	119492	51.45 ug/l	89
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	218750	9.53 ug/l	99
13) Acetone	4.23	43	290469	51.09 ug/l	100
14) 1,1-Dichloroethene	4.39	61	660776	9.96 ug/l	99
15) tert-Butyl alcohol	4.53	59	116541	55.13 ug/l	93
17) Iodomethane	4.81	142	728506	10.42 ug/l	100
19) Methylene chloride	5.04	49	652718	9.46 ug/l	99
20) Carbon disulfide	5.07	76	1858853	10.80 ug/l	100
21) Acrylonitrile	5.21	53	383180	50.92 ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	682062	10.41 ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	752336	10.12 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	1892189	10.38 ug/l	100
25) Vinyl acetate	6.04	43	714287	10.67 ug/l	98
26) 1,1-Dichloroethane	6.05	63	928069	10.19 ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	1140580	10.50 ug/l	100
29) 2-Butanone	6.66	43	548469	51.52 ug/l	99
30) 2,2-Dichloropropane	6.86	77	489415	8.92 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	542952	10.17 ug/l	99
32) Chloroform	7.15	83	807078	10.27 ug/l	100
33) Bromochloromethane	7.38	49	415030	10.53 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	568490	9.98 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	175207	10.88 ug/l	96
42) 1,1-Dichloropropene	7.97	110	231678	9.51 ug/l	100
43) Carbon tetrachloride	8.14	119	452292	9.43 ug/l	99
44) 1,2-Dichloroethane	8.36	62	440019	10.35 ug/l	99
45) Benzene	8.39	78	1972794	9.99 ug/l	100
46) Trichloroethene	9.34	130	526161	10.05 ug/l	99
48) 1,2-Dichloropropane	9.62	63	552765	10.15 ug/l	100
49) 1,4-Dioxane	10.06	88	36160	210.06 ug/l	86
50) Bromodichloromethane	10.00	83	590694	10.13 ug/l	99
51) Dibromomethane	10.09	93	211627	10.15 ug/l	98
52) 2-Chloroethyl vinyl ether	10.49	63	136461	10.11 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	1413511	50.62 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	735398	9.98 ug/l	99
56) Toluene	11.45	91	1985249	9.84 ug/l	100
57) Ethyl methacrylate	11.73	69	410458	10.44 ug/l	100
58) trans-1,3-Dichloropropene	11.75	75	529496	10.20 ug/l	99
59) 2-Hexanone	12.04	43	878349	50.52 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	287381	10.31 ug/l	99
61) 1,3-Dichloropropane	12.47	76	564370	10.32 ug/l	100
62) Tetrachloroethene	12.61	164	383027	9.72 ug/l	100
63) Dibromochloromethane	12.96	129	357574	10.42 ug/l	100
64) 1,2-Dibromoethane	13.33	107	281963	10.30 ug/l	97
65) 1-Chlorohexane	13.61	91	786927	9.53 ug/l	100
66) Chlorobenzene	14.08	112	1226175	10.16 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	400565	10.30 ug/l	99
68) Ethylbenzene	14.19	91	2229329	9.70 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3319552	19.65 ug/l	100
70) o-Xylene	15.15	91	1650344	10.01 ug/l	100
71) Styrene	15.22	104	1309154	10.53 ug/l	100
73) Isopropylbenzene	15.83	105	1970393	9.83 ug/l	100
74) Bromoform	15.86	173	176880	10.48 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.16	83	329499	10.09 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	80909	9.84 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.59	53	81130	9.62 ug/l	99
79) n-Propylbenzene	16.61	91	2591820	9.74 ug/l	100
80) Bromobenzene	16.70	156	426714	10.18 ug/l	98
81) 1,3,5-Trimethylbenzene	16.93	105	1574680	9.99 ug/l	100
82) 2-Chlorotoluene	16.96	91	1585311	9.79 ug/l	96
83) 4-Chlorotoluene	17.04	91	1408398	10.10 ug/l	95
84) tert-Butylbenzene	17.62	134	353763	9.88 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	1559834	10.01 ug/l	100
86) sec-Butylbenzene	18.02	105	2139958	9.74 ug/l	100
87) p-Isopropyltoluene	18.26	119	1641999	9.79 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	854259	10.10 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	819779	10.08 ug/l	100
90) n-Butylbenzene	18.91	91	1683787	9.58 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	695958	10.13 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	42380	10.40 ug/l	99
93) 1,2,4-Trichlorobenzene	21.33	180	413970	9.90 ug/l	100
94) Hexachlorobutadiene	21.51	225	256822	9.62 ug/l	99
95) Naphthalene	21.70	128	493053	10.19 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	328132	9.81 ug/l	99

SS 12/16/10

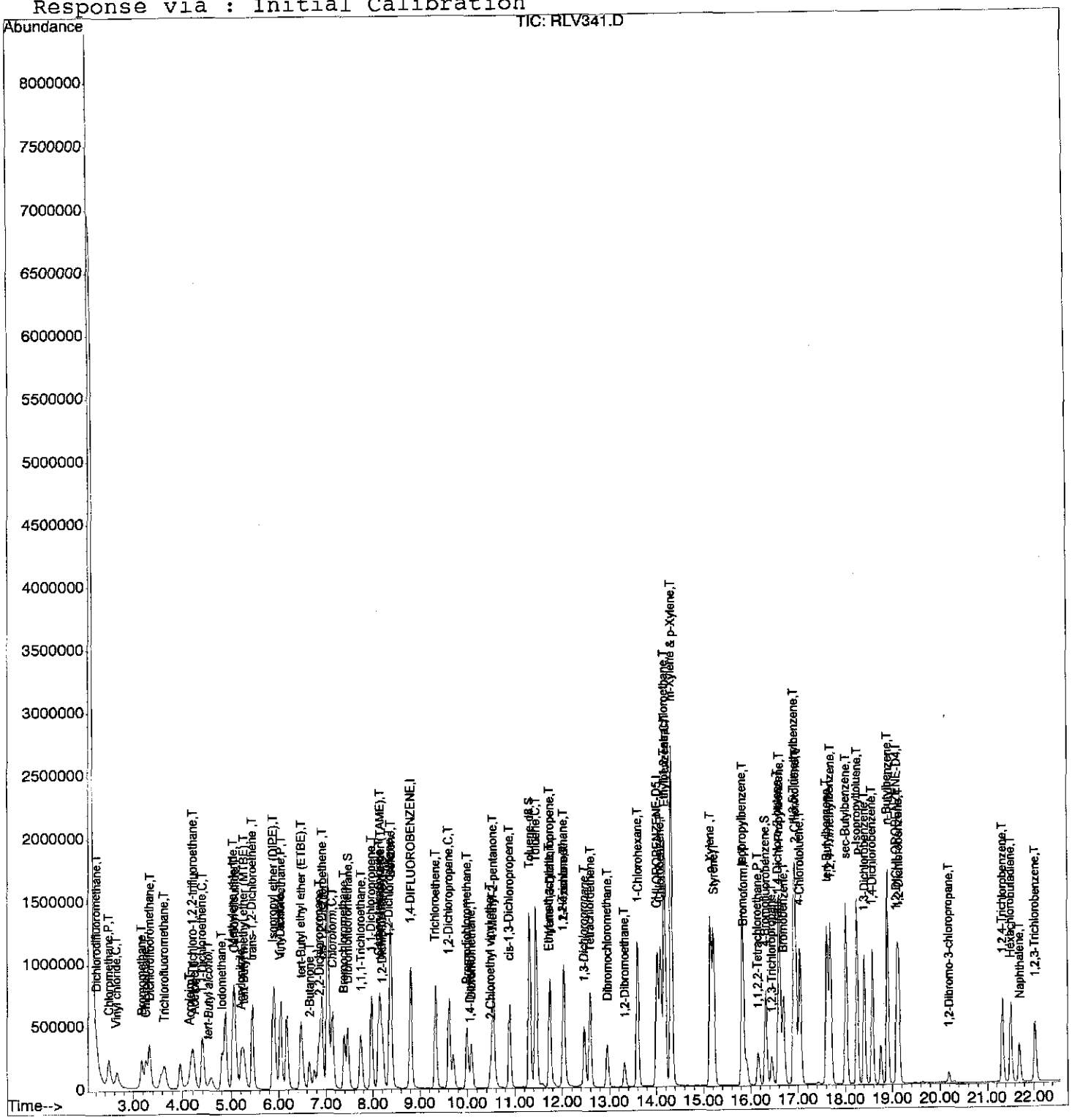
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IV001L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV043
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/05/11
BFB Injection Time : 07:38
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.77
75	30.0 - 60.0% of mass 95	45.88
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	73.25
175	5.0 - 9.0% of mass 174	5.14(7.0)1
176	95.0 - 101.0% of mass 174	72.60(99.1)1
177	5.0 - 9.0% of mass 176	4.52(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1119	RAV044	01/05/11	08:10
2	MBLK1W	V001A03B	RAV048	01/05/11	10:22
3	LCS1W	V001A03L	RAV045	01/05/11	08:44
4	LCD1W	V001A03C	RAV046	01/05/11	09:17
5	SSI-TB-002	A027-15	RAV055	01/05/11	14:08
6	SSI-GW-007DL	A027-07T	RAV056	01/05/11	14:40
7	SSI-GW-002	A027-02	RAV057	01/05/11	15:13

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1413309	8.79	1248172	13.98	430738	19.09
2	MBLK1W	1446963	8.79	1271014	13.98	433045	19.09
3	LCS1W	1476919	8.80	1293526	13.99	428743	19.08
4	LCD1W	1438062	8.79	1235880	13.98	418049	19.09
5	SSI-TB-002	1381266	8.80	1156267	14.00	382369	19.09
6	SSI-GW-007DL	1302800	8.80	1128658	14.00	383902	19.09
7	SSI-GW-002	1388545	8.80	1186768	14.00	389923	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

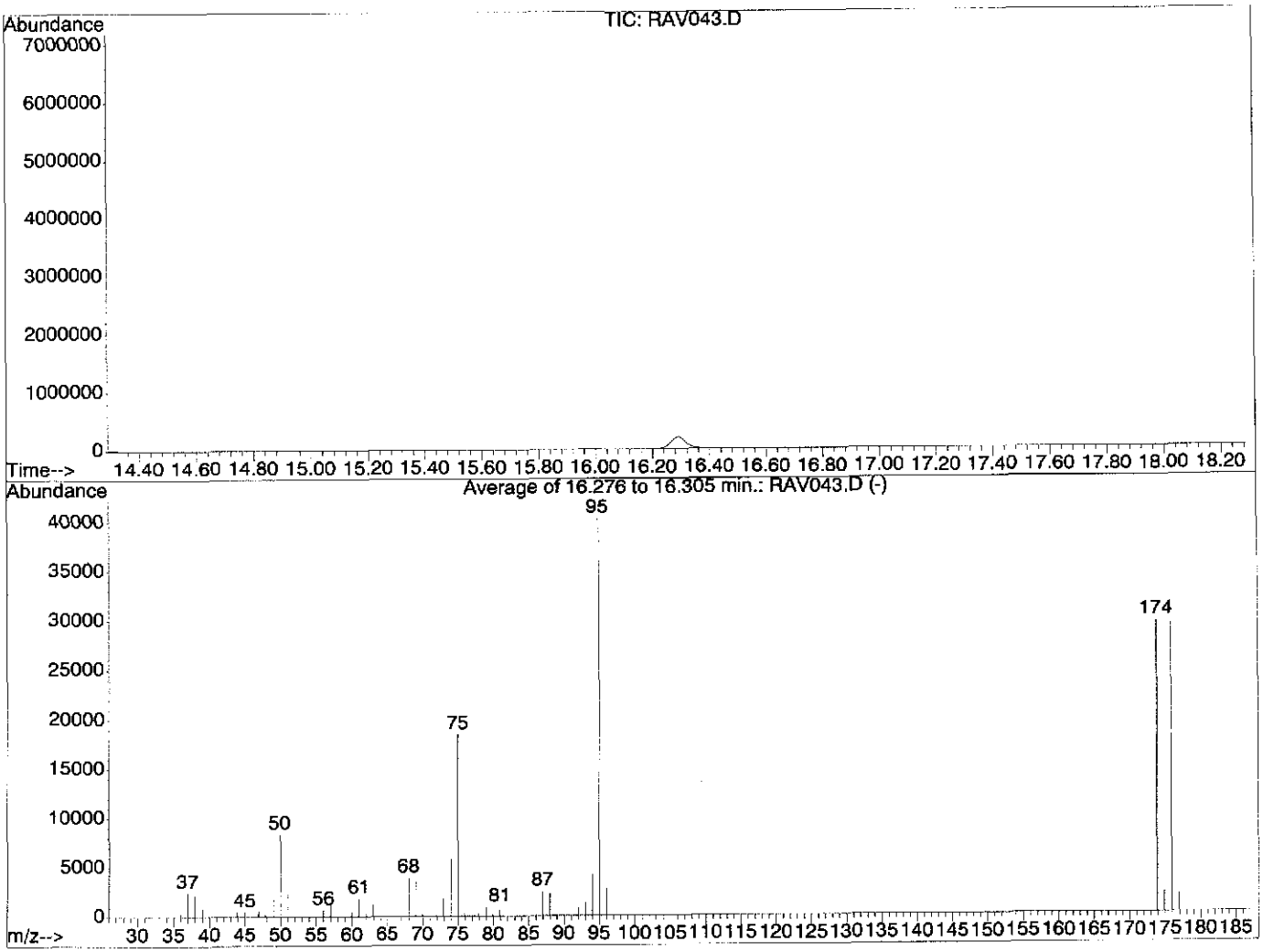
Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

BFB

Data File : D:\HPCHEM\1\DATA\11A05\RAV043.D
Acq On : 5 Jan 2011 7:38 am
Sample : BFB01A03
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 956

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.8	8359	PASS
75	95	30	60	45.9	18467	PASS
95	95	100	100	100.0	40251	PASS
96	95	5	9	6.7	2691	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.2	29483	PASS
175	174	5	9	7.0	2070	PASS
176	174	95	101	99.1	29224	PASS
177	176	5	9	6.2	1819	PASS

RAV043.D VO01L11.M Wed Jan 05 14:37:41 2011

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CV001L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	98	-0.03
2	T	Dichlorodifluoromethane	10.000	9.643	3.6	87	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	96	-0.01
4	P,T	Chloromethane	10.000	9.520	4.8	87	-0.01
5	C,T	Vinyl chloride	10.000	8.940	10.6	92	-0.01
6	T	Bromomethane	10.000	9.655	3.5	87	-0.01
7	T	Chloroethane	10.000	8.861	11.4	82	0.00
8	T	Dichlorofluoromethane	10.000	9.872	1.3	94	-0.01
9	T	Trichlorofluoromethane	10.000	7.696	23.0#	72	-0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	98	-0.01
11	T	Acrolein	50.000	43.043	13.9	82	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.287	-2.9	96	-0.01
13	T	Acetone	50.000	47.064	5.9	91	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.048	-0.5	96	-0.01
15	T	tert-Butyl alcohol	50.000	45.089	9.8	91	-0.01
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	9.311	6.9	87	-0.01
18	T	Methyl acetate	-1.000	0.000	0.0	92	-0.01
19	T	Methylene chloride	10.000	9.140	8.6	92	-0.01
20	T	Carbon disulfide	10.000	8.488	15.1	74	-0.01
21	T	Acrylonitrile	50.000	47.374	5.3	92	-0.01
22	T	tert-Butyl methyl ether (MT	10.000	10.005	-0.1	95	-0.01
23	T	trans-1,2-Dichloroethene	10.000	9.947	0.5	96	-0.01
24	T	Isopropyl ether (DIPE)	10.000	10.119	-1.2	96	-0.01
25	T	Vinyl acetate	10.000	7.345	26.6#	69	-0.01
26	P,T	1,1-Dichloroethane	10.000	10.350	-3.5	98	-0.03
27	T	2-Butanol	-1.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	10.000	9.975	0.3	94	-0.01
29	T	2-Butanone	50.000	47.066	5.9	93	-0.01
30	T	2,2-Dichloropropane	10.000	10.744	-7.4	104	-0.01
31	T	cis-1,2-Dichloroethene	10.000	10.290	-2.9	97	-0.03
32	C,T	Chloroform	10.000	10.243	-2.4	98	-0.01
33	T	Bromochloromethane	10.000	10.114	-1.1	94	-0.01
34	S	Dibromofluoromethane	10.000	9.882	1.2	91	-0.03
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	10.637	-6.4	102	-0.03
37	T	Cyclohexane	-1.000	0.000	0.0	80	-0.03
38	T	1-Butanol	-1.000	0.000	0.0	74	-0.03
39	T	tert-Amyl methyl ether (TAM	10.000	9.871	1.3	92	-0.03
40	S	1,2-Dichloroethane-d4	10.000	9.715	2.9	91	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~100~~	~~0.04~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CV001L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.791	2.1	98	-0.01
43	T	Carbon tetrachloride	10.000	10.219	-2.2	101	-0.03
44	T	1,2-Dichloroethane	10.000	9.872	1.3	96	-0.03
45	T	Benzene	10.000	10.182	-1.8	100	-0.03
46	T	Trichloroethene	10.000	9.981	0.2	96	-0.03
47	T	Methylcyclohexane	-1.000	0.000	0.0	83	-0.01
48	C,T	1,2-Dichloropropane	10.000	10.099	-1.0	99	-0.01
49	T	1,4-Dioxane	200.000	174.565	12.7	88	-0.03
50	T	Bromodichloromethane	10.000	9.882	1.2	95	-0.03
51	T	Dibromomethane	10.000	9.448	5.5	91	-0.03
52	T	2-Chloroethyl vinyl ether	10.000	6.337	36.6#	63	-0.03
53	T	4-Methyl-2-pentanone	50.000	45.195	9.6	90	-0.03
54	T	cis-1,3-Dichloropropene	10.000	10.095	-1.0	97	-0.03
55	S	Toluene-d8	10.000	9.801	2.0	94	-0.03
56	C,T	Toluene	10.000	10.214	-2.1	101	-0.03
57	T	Ethyl methacrylate	10.000	9.733	2.7	92	-0.03
58	T	trans-1,3-Dichloropropene	10.000	10.106	-1.1	98	-0.03
59	T	2-Hexanone	50.000	45.429	9.1	91	-0.03
60	T	1,1,2-Trichloroethane	10.000	9.999	0.0	96	-0.03
61	T	1,3-Dichloropropane	10.000	9.939	0.6	96	-0.03
62	T	Tetrachloroethene	10.000	10.273	-2.7	101	-0.03
63	T	Dibromochloromethane	10.000	9.859	1.4	94	-0.03
64	T	1,2-Dibromoethane	10.000	9.337	6.6	90	-0.03
65	T	1-Chlorohexane	10.000	10.140	-1.4	99	-0.03
66	P	Chlorobenzene	10.000	10.374	-3.7	100	-0.03
67	T	1,1,1,2-Tetrachloroethane	10.000	10.341	-3.4	100	-0.04
68	C,T	Ethylbenzene	10.000	10.169	-1.7	101	-0.03
69	T	m-Xylene & p-Xylene	20.000	20.325	-1.6	100	-0.03
70	T	o-Xylene	10.000	10.429	-4.3	100	-0.03
71	T	Styrene	10.000	10.742	-7.4	100	-0.04
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	95	-0.01
73	T	Isopropylbenzene	10.000	10.857	-8.6	101	-0.03
74	P,T	Bromoform	10.000	10.214	-2.1	92	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.860	1.4	93	-0.03
76	S	4-Bromofluorobenzene	10.000	10.638	-6.4	96	-0.03
77	T	1,2,3-Trichloropropane	10.000	9.400	6.0	94	-0.03
78	T	trans-1,4-Dichloro-2-butene	10.000	10.196	-2.0	94	-0.03
79	T	n-Propylbenzene	10.000	10.894	-8.9	101	-0.03
80	T	Bromobenzene	10.000	10.562	-5.6	98	-0.03
81	T	1,3,5-Trimethylbenzene	10.000	10.833	-8.3	100	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	10.870	-8.7	105	-0.03
83	T	4-Chlorotoluene	10.000	10.874	-8.7	98	-0.04
84	T	tert-Butylbenzene	10.000	11.264	-12.6	105	-0.03
85	T	1,2,4-Trimethylbenzene	10.000	11.015	-10.2	100	-0.03
86	T	sec-Butylbenzene	10.000	11.114	-11.1	104	-0.03
87	T	p-Isopropyltoluene	10.000	11.115	-11.2	102	-0.03
88	T	1,3-Dichlorobenzene	10.000	10.848	-8.5	100	-0.03
89	T	1,4-Dichlorobenzene	10.000	10.726	-7.3	99	-0.03
90	T	n-Butylbenzene	10.000	11.120	-11.2	102	-0.03
91	T	1,2-Dichlorobenzene	10.000	10.666	-6.7	98	-0.03
92	T	1,2-Dibromo-3-chloropropane	10.000	9.871	1.3	91	-0.03
93	T	1,2,4-Trichlorobenzene	10.000	10.347	-3.5	97	-0.03
94	T	Hexachlorobutadiene	10.000	10.544	-5.4	97	-0.03
95	T	Naphthalene	10.000	9.895	1.1	95	-0.03
96	T	1,2,3-Trichlorobenzene	10.000	9.955	0.4	95	-0.04

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	98	-0.03
2	T	Dichlorodifluoromethane	0.175	0.169	3.4	87	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	96	-0.01
4	P,T	Chloromethane	0.342	0.326	4.7	87	-0.01
5	C,T	Vinyl chloride	0.292	0.261	10.6	92	-0.01
6	T	Bromomethane	0.217	0.210	3.2	87	-0.01
7	T	Chloroethane	0.227	0.201	11.5	82	0.00
8	T	Dichlorofluoromethane	0.586	0.578	1.4	94	-0.01
9	T	Trichlorofluoromethane	0.332	0.256	22.9#	72	-0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	98	-0.01
11	T	Acrolein	0.016	0.014	12.5	82	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.164	-3.1	96	-0.01
13	T	Acetone	0.039	0.037	5.1	91	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.462	-0.4	96	-0.01
15	T	tert-Butyl alcohol	0.015	0.013	13.3	91	-0.01
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.452	6.8	87	-0.01
18	T	Methyl acetate	0.000	0.000	0.0	92	-0.01
19	T	Methylene chloride	0.479	0.438	8.6	92	-0.01
20	T	Carbon disulfide	1.122	1.009	10.1	74	-0.01
21	T	Acrylonitrile	0.052	0.049	5.8	92	-0.01
22	T	tert-Butyl methyl ether (MT	0.455	0.455	0.0	95	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.513	0.6	96	-0.01
24	T	Isopropyl ether (DIPE)	1.265	1.280	-1.2	96	-0.01
25	T	Vinyl acetate	0.465	0.341	26.7#	69	-0.01
26	P,T	1,1-Dichloroethane	0.632	0.654	-3.5	98	-0.03
27	T	2-Butanol	0.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	0.753	0.751	0.3	94	-0.01
29	T	2-Butanone	0.074	0.070	5.4	93	-0.01
30	T	2,2-Dichloropropane	0.381	0.409	-7.3	104	-0.01
31	T	cis-1,2-Dichloroethene	0.370	0.381	-3.0	97	-0.03
32	C,T	Chloroform	0.545	0.558	-2.4	98	-0.01
33	T	Bromochloromethane	0.274	0.277	-1.1	94	-0.01
34	S	Dibromofluoromethane	0.300	0.296	1.3	91	-0.03
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.420	-6.3	102	-0.03
37	T	Cyclohexane	0.000	0.000	0.0	80	-0.03
38	T	1-Butanol	0.000	0.000	0.0	74	-0.03
39	T	tert-Amyl methyl ether (TAM	0.112	0.110	1.8	92	-0.03
40	S	1,2-Dichloroethane-d4	0.234	0.228	2.6	91	-0.01

~~41 I CHLOROBENZENE-D5 1.000 1.000 0.0 100 0.04~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.188	2.1	98	-0.01
43	T	Carbon tetrachloride	0.378	0.387	-2.4	101	-0.03
44	T	1,2-Dichloroethane	0.335	0.331	1.2	96	-0.03
45	T	Benzene	1.557	1.585	-1.8	100	-0.03
46	T	Trichloroethene	0.413	0.412	0.2	96	-0.03
47	T	Methylcyclohexane	0.000	0.000	0.0	83	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.434	-0.9	99	-0.01
49	T	1,4-Dioxane	0.001	0.001	0.0	88	-0.03
50	T	Bromodichloromethane	0.460	0.454	1.3	95	-0.03
51	T	Dibromomethane	0.164	0.155	5.5	91	-0.03
52	T	2-Chloroethyl vinyl ether	0.106	0.067	36.8#	63	-0.03
53	T	4-Methyl-2-pentanone	0.220	0.199	9.5	90	-0.03
54	T	cis-1,3-Dichloropropene	0.581	0.586	-0.9	97	-0.03
55	S	Toluene-d8	1.303	1.277	2.0	94	-0.03
56	C,T	Toluene	1.591	1.625	-2.1	101	-0.03
57	T	Ethyl methacrylate	0.310	0.302	2.6	92	-0.03
58	T	trans-1,3-Dichloropropene	0.409	0.414	-1.2	98	-0.03
59	T	2-Hexanone	0.137	0.125	8.8	91	-0.03
60	T	1,1,2-Trichloroethane	0.220	0.220	0.0	96	-0.03
61	T	1,3-Dichloropropane	0.431	0.429	0.5	96	-0.03
62	T	Tetrachloroethene	0.311	0.319	-2.6	101	-0.03
63	T	Dibromochloromethane	0.271	0.267	1.5	94	-0.03
64	T	1,2-Dibromoethane	0.216	0.201	6.9	90	-0.03
65	T	1-Chlorohexane	0.651	0.660	-1.4	99	-0.03
66	P	Chlorobenzene	0.952	0.988	-3.8	100	-0.03
67	T	1,1,1,2-Tetrachloroethane	0.307	0.317	-3.3	100	-0.04
68	C,T	Ethylbenzene	1.813	1.844	-1.7	101	-0.03
69	T	m-Xylene & p-Xylene	1.332	1.354	-1.7	100	-0.03
70	T	o-Xylene	1.301	1.356	-4.2	100	-0.03
71	T	Styrene	0.980	1.053	-7.4	100	-0.04
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	95	-0.01
73	T	Isopropylbenzene	4.392	4.768	-8.6	101	-0.03
74	P,T	Bromoform	0.370	0.378	-2.2	92	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.706	1.4	93	-0.03
76	S	4-Bromofluorobenzene	1.134	1.206	-6.3	96	-0.03
77	T	1,2,3-Trichloropropane	0.180	0.169	6.1	94	-0.03
78	T	trans-1,4-Dichloro-2-butene	0.185	0.188	-1.6	94	-0.03
79	T	n-Propylbenzene	5.832	6.353	-8.9	101	-0.03
80	T	Bromobenzene	0.918	0.970	-5.7	98	-0.03
81	T	1,3,5-Trimethylbenzene	3.456	3.744	-8.3	100	-0.04

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.858	-8.7	105	-0.03
83	T	4-Chlorotoluene	3.056	3.323	-8.7	98	-0.04
84	T	tert-Butylbenzene	0.785	0.884	-12.6	105	-0.03
85	T	1,2,4-Trimethylbenzene	3.415	3.762	-10.2	100	-0.03
86	T	sec-Butylbenzene	4.814	5.351	-11.2	104	-0.03
87	T	p-Isopropyltoluene	3.675	4.084	-11.1	102	-0.03
88	T	1,3-Dichlorobenzene	1.854	2.012	-8.5	100	-0.03
89	T	1,4-Dichlorobenzene	1.782	1.911	-7.2	99	-0.03
90	T	n-Butylbenzene	3.853	4.284	-11.2	102	-0.03
91	T	1,2-Dichlorobenzene	1.506	1.607	-6.7	98	-0.03
92	T	1,2-Dibromo-3-chloropropane	0.089	0.088	1.1	91	-0.03
93	T	1,2,4-Trichlorobenzene	0.916	0.948	-3.5	97	-0.03
94	T	Hexachlorobutadiene	0.585	0.617	-5.5	97	-0.03
95	T	Naphthalene	1.061	1.050	1.0	95	-0.03
96	T	1,2,3-Trichlorobenzene	0.733	0.730	0.4	95	-0.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 8:33 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1413309	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.98	117	1248172	10.00	ug/l	-0.04
72) 1,2-DICHLOROBENZENE-D4	19.09	152	430738	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	418469	9.88	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.80%	
40) 1,2-Dichloroethane-d4	8.20	65	321742	9.71	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.10%	
55) Toluene-d8	11.29	98	1593442	9.80	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	98.00%	
76) 4-Bromofluorobenzene	16.29	95	519638	10.64	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	106.40%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	238447	9.64	ug/l	99
4) Chloromethane	2.47	50	460132	9.52	ug/l	100
5) Vinyl chloride	2.65	62	368953	8.94	ug/l	99
6) Bromomethane	3.17	94	296283	9.65	ug/l	100
7) Chloroethane	3.25	64	283828	8.86	ug/l	97
8) Dichlorofluoromethane	3.33	67	817277	9.87	ug/l	99
9) Trichlorofluoromethane	3.62	101	361648	7.70	ug/l	100
11) Acrolein	4.13	56	98024	43.04	ug/l	87
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	231550	10.29	ug/l	99
13) Acetone	4.22	43	262397	47.06	ug/l	97
14) 1,1-Dichloroethene	4.38	61	653632	10.05	ug/l	99
15) tert-Butyl alcohol	4.51	59	93468	45.09	ug/l	95
17) Iodomethane	4.79	142	638200	9.31	ug/l	99
19) Methylene chloride	5.03	49	618675	9.14	ug/l	98
20) Carbon disulfide	5.06	76	1426569	8.49	ug/l	99
21) Acrylonitrile	5.19	53	349596	47.37	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	642929	10.00	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	725030	9.95	ug/l	99
24) Isopropyl ether (DIPE)	5.87	45	1809370	10.12	ug/l	99
25) Vinyl acetate	6.02	43	482243	7.35	ug/l	98
26) 1,1-Dichloroethane	6.02	63	924142	10.35	ug/l	99
28) tert-Butyl ethyl ether (ET	6.47	59	1062049	9.98	ug/l	100
29) 2-Butanone	6.63	43	491350	47.07	ug/l	99
30) 2,2-Dichloropropane	6.84	77	577927	10.74	ug/l	99
31) cis-1,2-Dichloroethene	6.89	96	538693	10.29	ug/l	98
32) Chloroform	7.13	83	789236	10.24	ug/l	100
33) Bromochloromethane	7.37	49	391059	10.11	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D
Acq On : 5 Jan 2011 8:10 am
Sample : CVO01L1119
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 8:33 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36)	1,1,1-Trichloroethane	7.72	97	594240	10.64 ug/l		98
39)	tert-Amyl methyl ether (TA	8.14	87	155807	9.87 ug/l		100
42)	1,1-Dichloropropene	7.96	110	234728	9.79 ug/l		100
43)	Carbon tetrachloride	8.11	119	482434	10.22 ug/l		97
44)	1,2-Dichloroethane	8.33	62	413055	9.87 ug/l		100
45)	Benzene	8.36	78	1978636	10.18 ug/l		99
46)	Trichloroethene	9.31	130	514243	9.98 ug/l		98
48)	1,2-Dichloropropane	9.60	63	541532	10.10 ug/l		98
49)	1,4-Dioxane	10.03	88	29575	174.56 ug/l		93
50)	Bromodichloromethane	9.97	83	567095	9.88 ug/l		98
51)	Dibromomethane	10.06	93	193874	9.45 ug/l		98
52)	2-Chloroethyl vinyl ether	10.46	63	84203	6.34 ug/l		100
53)	4-Methyl-2-pentanone	10.52	43	1242203	45.19 ug/l		99
54)	cis-1,3-Dichloropropene	10.86	75	732039	10.09 ug/l		99
56)	Toluene	11.42	91	2027695	10.21 ug/l		100
57)	Ethyl methacrylate	11.70	69	376546	9.73 ug/l		98
58)	trans-1,3-Dichloropropene	11.72	75	516246	10.11 ug/l		99
59)	2-Hexanone	12.01	43	777301	45.43 ug/l		99
60)	1,1,2-Trichloroethane	12.00	97	274205	10.00 ug/l		98
61)	1,3-Dichloropropane	12.44	76	535174	9.94 ug/l		99
62)	Tetrachloroethene	12.58	164	398406	10.27 ug/l		98
63)	Dibromochloromethane	12.93	129	332977	9.86 ug/l		98
64)	1,2-Dibromoethane	13.30	107	251481	9.34 ug/l		99
65)	1-Chlorohexane	13.58	91	824140	10.14 ug/l		100
66)	Chlorobenzene	14.06	112	1232599	10.37 ug/l		99
67)	1,1,1,2-Tetrachloroethane	14.13	131	395681	10.34 ug/l		98
68)	Ethylbenzene	14.16	91	2301452	10.17 ug/l		99
69)	m-Xylene & p-Xylene	14.29	91	3379617	20.33 ug/l		99
70)	o-Xylene	15.12	91	1692991	10.43 ug/l		99
71)	Styrene	15.18	104	1314130	10.74 ug/l		100
73)	Isopropylbenzene	15.80	105	2053877	10.86 ug/l		99
74)	Bromoform	15.83	173	162780	10.21 ug/l		98
75)	1,1,2,2-Tetrachloroethane	16.13	83	304139	9.86 ug/l		99
77)	1,2,3-Trichloropropane	16.42	110	72961	9.40 ug/l		95
78)	trans-1,4-Dichloro-2-buten	16.56	53	81188	10.20 ug/l		100
79)	n-Propylbenzene	16.59	91	2736462	10.89 ug/l		100
80)	Bromobenzene	16.67	156	417815	10.56 ug/l	#	86
81)	1,3,5-Trimethylbenzene	16.88	105	1612838	10.83 ug/l		98
82)	2-Chlorotoluene	16.93	91	1661937	10.87 ug/l		96
83)	4-Chlorotoluene	17.01	91	1431322	10.87 ug/l		95
84)	tert-Butylbenzene	17.59	134	380912	11.26 ug/l		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D
Acq On : 5 Jan 2011 8:10 am
Sample : CVO01L1119
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 8:33 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

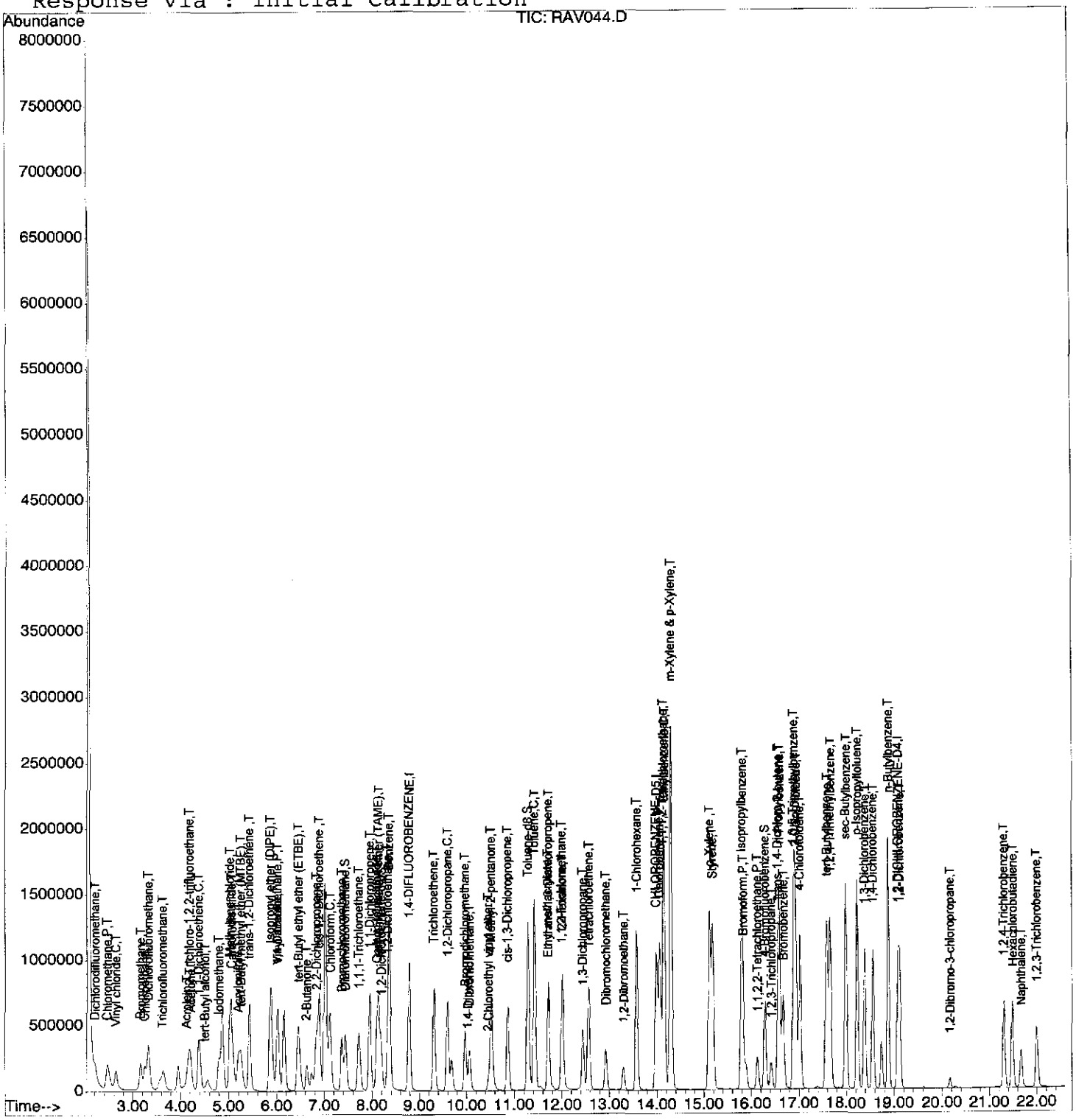
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1620266	11.02 ug/l	98
86) sec-Butylbenzene	17.99	105	2304706	11.11 ug/l	99
87) p-Isopropyltoluene	18.23	119	1759264	11.11 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	866534	10.85 ug/l	99
89) 1,4-Dichlorobenzene	18.55	146	823176	10.73 ug/l	99
90) n-Butylbenzene	18.88	91	1845474	11.12 ug/l	100
91) 1,2-Dichlorobenzene	19.12	146	692063	10.67 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.17	157	37960	9.87 ug/l	99
93) 1,2,4-Trichlorobenzene	21.31	180	408457	10.35 ug/l	99
94) Hexachlorobutadiene	21.50	225	265755	10.54 ug/l	97
95) Naphthalene	21.68	128	452189	9.90 ug/l	100
96) 1,2,3-Trichlorobenzene	22.00	180	314234	9.95 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV044.D Vial: 3
Acq On : 5 Jan 2011 8:10 am Operator: MW
Sample : CVO01L1119 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 8:33 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV066
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/05/11
BFB Injection Time : 20:03
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.19
75	30.0 - 60.0% of mass 95	45.92
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.54
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	76.85
175	5.0 - 9.0% of mass 174	5.35(7.0)1
176	95.0 - 101.0% of mass 174	73.41(95.5)1
177	5.0 - 9.0% of mass 176	4.94(6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1120	RAV067	01/05/11	20:34
2	MBLK2W	V001A04B	RAV071	01/05/11	22:42
3	LCS2W	V001A04L	RAV068	01/05/11	21:06
4	LCD2W	V001A04C	RAV069	01/05/11	21:40
5	SSI-GW-009	A027-09	RAV072	01/05/11	23:14
6	SSI-GW-010	A027-10	RAV073	01/05/11	23:47
7	SSI-GW-011	A027-11	RAV074	01/06/11	00:19
8	SSI-D-001	A027-12	RAV075	01/06/11	00:51
9	SSI-GW-001	A027-01	RAV078	01/06/11	02:29

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1431828	8.80	1241936	14.01	437307	19.10
2	MBLK2W	1438682	8.79	1290828	14.00	453449	19.09
3	LCS2W	1423696	8.80	1230939	14.00	426370	19.09
4	LCD2W	1388330	8.80	1234066	13.99	431824	19.08
5	SSI-GW-009	1357001	8.79	1192825	14.00	399944	19.09
6	SSI-GW-010	1412957	8.80	1241188	14.00	421851	19.09
7	SSI-GW-011	1408859	8.80	1239372	14.00	424262	19.09
8	SSI-D-001	1361533	8.80	1207692	13.99	402769	19.08
9	SSI-GW-001	1342086	8.80	1180727	14.00	399569	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

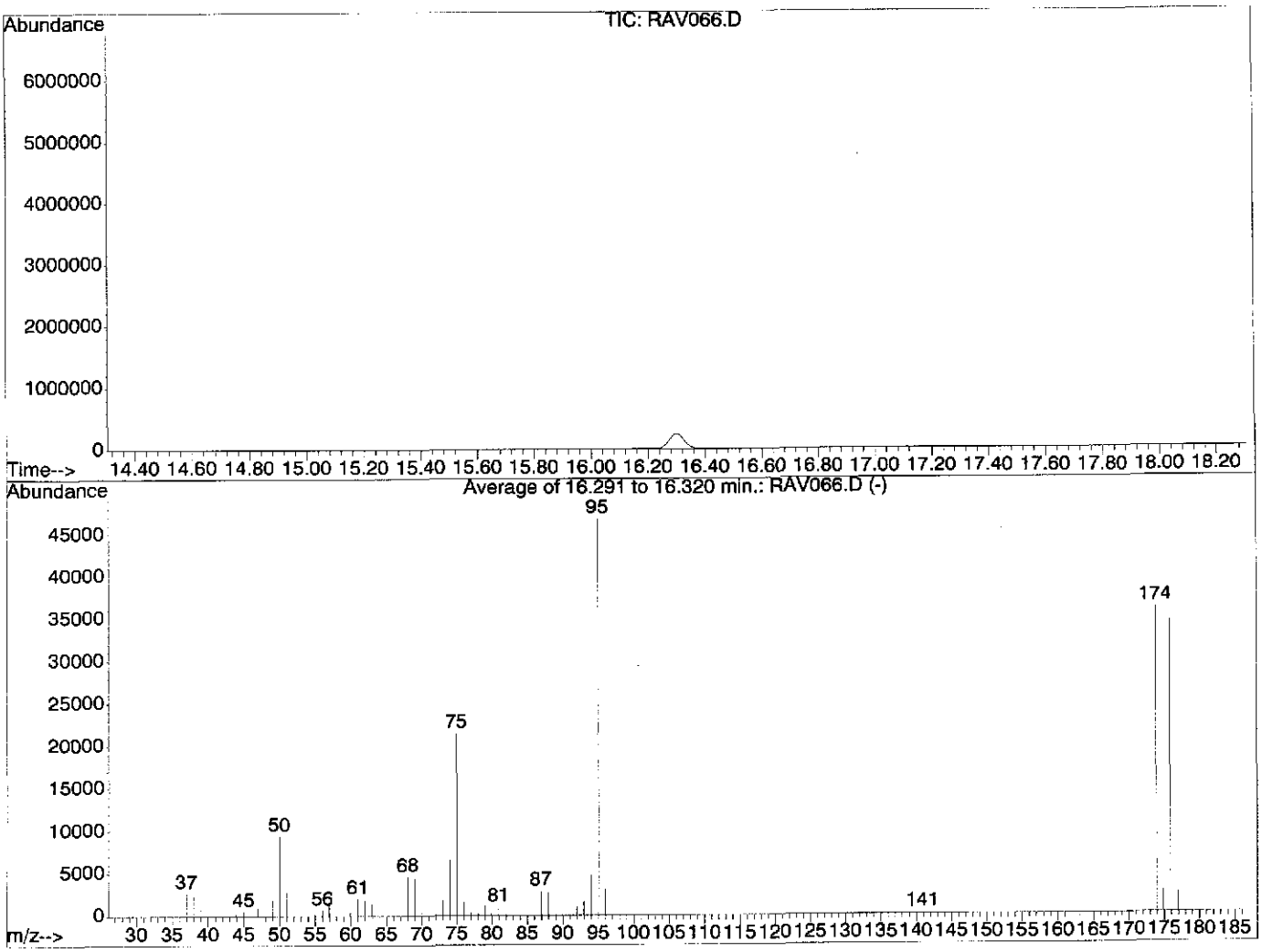
Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

BFB

Data File : D:\HPCHEM\1\DATA\11A05\RAV066.D
Acq On : 5 Jan 2011 8:03 pm
Sample : BFB01A04
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 964, 965, 966; Background Corrected with Scan 955

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	9441	PASS
75	95	30	60	45.9	21477	PASS
95	95	100	100	100.0	46771	PASS
96	95	5	9	6.5	3057	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.9	35944	PASS
175	174	5	9	7.0	2503	PASS
176	174	95	101	95.5	34333	PASS
177	176	5	9	6.7	2310	PASS

RAV066.D VO01L11.M Thu Jan 06 06:33:49 2011

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D
Acq On : 5 Jan 2011 8:34 pm
Sample : CVO01L1120
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	99	-0.02
2	T	Dichlorodifluoromethane	10.000	8.603	14.0	79	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	89	0.00
4	P,T	Chloromethane	10.000	9.907	0.9	92	0.00
5	C,T	Vinyl chloride	10.000	9.244	7.6	97	-0.02
6	T	Bromomethane	10.000	10.116	-1.2	92	0.00
7	T	Chloroethane	10.000	8.994	10.1	84	0.00
8	T	Dichlorofluoromethane	10.000	9.617	3.8	93	0.00
9	T	Trichlorofluoromethane	10.000	6.881	31.2#	65	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	93	0.00
11	T	Acrolein	50.000	37.648	24.7#	72	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	7.914	20.9#	75	0.00
13	T	Acetone	50.000	46.149	7.7	90	0.00
14	C,T	1,1-Dichloroethene	10.000	9.527	4.7	92	0.00
15	T	tert-Butyl alcohol	50.000	41.095	17.8	84	0.01
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.963	10.4	85	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	95	0.00
19	T	Methylene chloride	10.000	9.173	8.3	94	0.00
20	T	Carbon disulfide	10.000	8.883	11.2	78	0.00
21	T	Acrylonitrile	50.000	48.560	2.9	96	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.619	3.8	92	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.874	1.3	96	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.016	-0.2	96	0.00
25	T	Vinyl acetate	10.000	7.273	27.3#	69	0.00
26	P,T	1,1-Dichloroethane	10.000	10.101	-1.0	97	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	108	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.523	4.8	91	0.00
29	T	2-Butanone	50.000	47.883	4.2	96	0.00
30	T	2,2-Dichloropropane	10.000	9.848	1.5	97	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.011	-0.1	95	-0.02
32	C,T	Chloroform	10.000	9.973	0.3	97	0.00
33	T	Bromochloromethane	10.000	9.845	1.5	93	0.00
34	S	Dibromofluoromethane	10.000	9.611	3.9	89	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.896	1.0	96	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	96	0.00
38	T	1-Butanol	-1.000	0.000	0.0	88	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.383	6.2	89	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.557	4.4	90	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~100~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.644	3.6	96	0.00
43	T	Carbon tetrachloride	10.000	9.483	5.2	93	-0.02
44	T	1,2-Dichloroethane	10.000	9.974	0.3	96	-0.02
45	T	Benzene	10.000	10.083	-0.8	99	-0.02
46	T	Trichloroethene	10.000	10.228	-2.3	98	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	94	-0.02
48	C,T	1,2-Dichloropropane	10.000	10.248	-2.5	100	0.00
49	T	1,4-Dioxane	200.000	173.472	13.3	87	-0.02
50	T	Bromodichloromethane	10.000	9.925	0.7	95	-0.02
51	T	Dibromomethane	10.000	9.373	6.3	90	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	6.883	31.2#	68	-0.02
53	T	4-Methyl-2-pentanone	50.000	46.180	7.6	92	-0.02
54	T	cis-1,3-Dichloropropene	10.000	10.090	-0.9	97	0.00
55	S	Toluene-d8	10.000	10.029	-0.3	96	-0.02
56	C,T	Toluene	10.000	10.267	-2.7	101	-0.02
57	T	Ethyl methacrylate	10.000	9.719	2.8	92	0.00
58	T	trans-1,3-Dichloropropene	10.000	10.122	-1.2	97	-0.02
59	T	2-Hexanone	50.000	46.042	7.9	91	-0.02
60	T	1,1,2-Trichloroethane	10.000	9.926	0.7	95	-0.02
61	T	1,3-Dichloropropane	10.000	9.895	1.1	95	-0.02
62	T	Tetrachloroethene	10.000	10.017	-0.2	98	-0.02
63	T	Dibromochloromethane	10.000	9.800	2.0	93	-0.02
64	T	1,2-Dibromoethane	10.000	9.525	4.7	91	-0.02
65	T	1-Chlorohexane	10.000	9.770	2.3	95	-0.02
66	P	Chlorobenzene	10.000	10.324	-3.2	99	-0.02
67	T	1,1,1,2-Tetrachloroethane	10.000	10.230	-2.3	98	-0.02
68	C,T	Ethylbenzene	10.000	10.418	-4.2	103	-0.02
69	T	m-Xylene & p-Xylene	20.000	20.526	-2.6	101	-0.02
70	T	o-Xylene	10.000	10.600	-6.0	101	-0.02
71	T	Styrene	10.000	10.678	-6.8	99	-0.03
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	97	0.00
73	T	Isopropylbenzene	10.000	10.746	-7.5	101	-0.02
74	P,T	Bromoform	10.000	9.984	0.2	91	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.775	2.2	93	-0.02
76	S	4-Bromofluorobenzene	10.000	10.537	-5.4	96	-0.02
77	T	1,2,3-Trichloropropane	10.000	9.376	6.2	95	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	10.138	-1.4	94	-0.02
79	T	n-Propylbenzene	10.000	10.790	-7.9	101	-0.02
80	T	Bromobenzene	10.000	10.282	-2.8	97	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	10.874	-8.7	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CV001L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	10.745	-7.4	105	-0.02
83	T	4-Chlorotoluene	10.000	10.939	-9.4	100	-0.03
84	T	tert-Butylbenzene	10.000	10.980	-9.8	104	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	10.789	-7.9	100	-0.02
86	T	sec-Butylbenzene	10.000	10.789	-7.9	102	-0.02
87	T	p-Isopropyltoluene	10.000	10.923	-9.2	102	-0.02
88	T	1,3-Dichlorobenzene	10.000	10.626	-6.3	100	-0.02
89	T	1,4-Dichlorobenzene	10.000	10.549	-5.5	99	0.00
90	T	n-Butylbenzene	10.000	10.791	-7.9	101	-0.02
91	T	1,2-Dichlorobenzene	10.000	10.512	-5.1	98	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.618	3.8	90	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	10.511	-5.1	100	-0.02
94	T	Hexachlorobutadiene	10.000	10.443	-4.4	97	-0.03
95	T	Naphthalene	10.000	10.012	-0.1	98	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	9.964	0.4	96	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	99	-0.02
2	T	Dichlorodifluoromethane	0.175	0.151	13.7	79	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	89	0.00
4	P,T	Chloromethane	0.342	0.339	0.9	92	0.00
5	C,T	Vinyl chloride	0.292	0.270	7.5	97	-0.02
6	T	Bromomethane	0.217	0.220	-1.4	92	0.00
7	T	Chloroethane	0.227	0.204	10.1	84	0.00
8	T	Dichlorofluoromethane	0.586	0.563	3.9	93	0.00
9	T	Trichlorofluoromethane	0.332	0.229	31.0#	65	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	93	0.00
11	T	Acrolein	0.016	0.012	25.0#	72	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.126	20.8#	75	0.00
13	T	Acetone	0.039	0.036	7.7	90	0.00
14	C,T	1,1-Dichloroethene	0.460	0.438	4.8	92	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	84	0.01
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.435	10.3	85	0.00
18	T	Methyl acetate	0.000	0.000	0.0	95	0.00
19	T	Methylene chloride	0.479	0.439	8.4	94	0.00
20	T	Carbon disulfide	1.122	1.057	5.8	78	0.00
21	T	Acrylonitrile	0.052	0.051	1.9	96	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.437	4.0	92	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.509	1.4	96	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.267	-0.2	96	0.00
25	T	Vinyl acetate	0.465	0.338	27.3#	69	0.00
26	P,T	1,1-Dichloroethane	0.632	0.638	-0.9	97	-0.02
27	T	2-Butanol	0.000	0.000	0.0	108	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.717	4.8	91	0.00
29	T	2-Butanone	0.074	0.071	4.1	96	0.00
30	T	2,2-Dichloropropane	0.381	0.375	1.6	97	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.371	-0.3	95	-0.02
32	C,T	Chloroform	0.545	0.544	0.2	97	0.00
33	T	Bromochloromethane	0.274	0.269	1.8	93	0.00
34	S	Dibromofluoromethane	0.300	0.288	4.0	89	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.391	1.0	96	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	96	0.00
38	T	1-Butanol	0.000	0.000	0.0	88	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.105	6.3	89	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.224	4.3	90	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~100~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.185	3.6	96	0.00
43	T	Carbon tetrachloride	0.378	0.359	5.0	93	-0.02
44	T	1,2-Dichloroethane	0.335	0.334	0.3	96	-0.02
45	T	Benzene	1.557	1.570	-0.8	99	-0.02
46	T	Trichloroethene	0.413	0.422	-2.2	98	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	94	-0.02
48	C,T	1,2-Dichloropropane	0.430	0.440	-2.3	100	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	87	-0.02
50	T	Bromodichloromethane	0.460	0.456	0.9	95	-0.02
51	T	Dibromomethane	0.164	0.154	6.1	90	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.073	31.1#	68	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.203	7.7	92	-0.02
54	T	cis-1,3-Dichloropropene	0.581	0.586	-0.9	97	0.00
55	S	Toluene-d8	1.303	1.306	-0.2	96	-0.02
56	C,T	Toluene	1.591	1.633	-2.6	101	-0.02
57	T	Ethyl methacrylate	0.310	0.301	2.9	92	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.414	-1.2	97	-0.02
59	T	2-Hexanone	0.137	0.126	8.0	91	-0.02
60	T	1,1,2-Trichloroethane	0.220	0.218	0.9	95	-0.02
61	T	1,3-Dichloropropane	0.431	0.427	0.9	95	-0.02
62	T	Tetrachloroethene	0.311	0.311	0.0	98	-0.02
63	T	Dibromochloromethane	0.271	0.265	2.2	93	-0.02
64	T	1,2-Dibromoethane	0.216	0.206	4.6	91	-0.02
65	T	1-Chlorohexane	0.651	0.636	2.3	95	-0.02
66	P	Chlorobenzene	0.952	0.983	-3.3	99	-0.02
67	T	1,1,1,2-Tetrachloroethane	0.307	0.314	-2.3	98	-0.02
68	C,T	Ethylbenzene	1.813	1.889	-4.2	103	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.367	-2.6	101	-0.02
70	T	o-Xylene	1.301	1.379	-6.0	101	-0.02
71	T	Styrene	0.980	1.047	-6.8	99	-0.03
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	97	0.00
73	T	Isopropylbenzene	4.392	4.720	-7.5	101	-0.02
74	P,T	Bromoform	0.370	0.369	0.3	91	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.700	2.2	93	-0.02
76	S	4-Bromofluorobenzene	1.134	1.195	-5.4	96	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.169	6.1	95	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.187	-1.1	94	-0.02
79	T	n-Propylbenzene	5.832	6.293	-7.9	101	-0.02
80	T	Bromobenzene	0.918	0.944	-2.8	97	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.759	-8.8	102	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.814	-7.5	105	-0.02
83	T	4-Chlorotoluene	3.056	3.343	-9.4	100	-0.03
84	T	tert-Butylbenzene	0.785	0.862	-9.8	104	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.684	-7.9	100	-0.02
86	T	sec-Butylbenzene	4.814	5.194	-7.9	102	-0.02
87	T	p-Isopropyltoluene	3.675	4.014	-9.2	102	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.971	-6.3	100	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.880	-5.5	99	0.00
90	T	n-Butylbenzene	3.853	4.158	-7.9	101	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.584	-5.2	98	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.086	3.4	90	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.963	-5.1	100	-0.02
94	T	Hexachlorobutadiene	0.585	0.611	-4.4	97	-0.03
95	T	Naphthalene	1.061	1.062	-0.1	98	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.730	0.4	96	-0.03

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D
Acq On : 5 Jan 2011 8:34 pm
Sample : CVO01L1120
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 20:57 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1431828	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.01	117	1241936	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.10	152	437307	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	412336	9.61	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	96.10%	
40) 1,2-Dichloroethane-d4	8.21	65	320664	9.56	ug/l	0.00
Spiked Amount 10.000			Recovery	=	95.60%	
55) Toluene-d8	11.30	98	1622345	10.03	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	100.30%	
76) 4-Bromofluorobenzene	16.30	95	522534	10.54	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.40%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.21	85	215502	8.60	ug/l	99
4) Chloromethane	2.48	50	485115	9.91	ug/l	100
5) Vinyl chloride	2.64	62	386511	9.24	ug/l	100
6) Bromomethane	3.18	94	314498	10.12	ug/l	100
7) Chloroethane	3.25	64	291842	8.99	ug/l	98
8) Dichlorofluoromethane	3.34	67	806646	9.62	ug/l	100
9) Trichlorofluoromethane	3.63	101	327574	6.88	ug/l	99
11) Acrolein	4.14	56	86863	37.65	ug/l #	66
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	180459	7.91	ug/l	98
13) Acetone	4.23	43	260668	46.15	ug/l	98
14) 1,1-Dichloroethene	4.39	61	627851	9.53	ug/l	100
15) tert-Butyl alcohol	4.54	59	86305	41.10	ug/l	99
17) Iodomethane	4.80	142	622386	8.96	ug/l	99
19) Methylene chloride	5.04	49	629032	9.17	ug/l	99
20) Carbon disulfide	5.07	76	1513721	8.88	ug/l	100
21) Acrylonitrile	5.20	53	363044	48.56	ug/l	99
22) tert-Butyl methyl ether (M	5.26	73	626233	9.62	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	729137	9.87	ug/l	99
24) Isopropyl ether (DIPE)	5.88	45	1814511	10.02	ug/l	99
25) Vinyl acetate	6.03	43	483740	7.27	ug/l	98
26) 1,1-Dichloroethane	6.03	63	913681	10.10	ug/l	100
28) tert-Butyl ethyl ether (ET	6.47	59	1027255	9.52	ug/l	100
29) 2-Butanone	6.64	43	506428	47.88	ug/l	98
30) 2,2-Dichloropropane	6.84	77	536690	9.85	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	530967	10.01	ug/l	99
32) Chloroform	7.14	83	778457	9.97	ug/l	100
33) Bromochloromethane	7.38	49	385661	9.85	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D Vial: 3
Acq On : 5 Jan 2011 8:34 pm Operator: MW
Sample : CVO01L1120 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 5 20:57 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	560134	9.90 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	150042	9.38 ug/l	99
42) 1,1-Dichloropropene	7.97	110	230046	9.64 ug/l	100
43) Carbon tetrachloride	8.12	119	445443	9.48 ug/l	98
44) 1,2-Dichloroethane	8.34	62	415238	9.97 ug/l	99
45) Benzene	8.37	78	1949631	10.08 ug/l	100
46) Trichloroethene	9.33	130	524337	10.23 ug/l	99
48) 1,2-Dichloropropane	9.61	63	546745	10.25 ug/l	98
49) 1,4-Dioxane	10.04	88	29243	173.47 ug/l	95
50) Bromodichloromethane	9.98	83	566678	9.92 ug/l	99
51) Dibromomethane	10.07	93	191373	9.37 ug/l	98
52) 2-Chloroethyl vinyl ether	10.47	63	90997	6.88 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1262927	46.18 ug/l	98
54) cis-1,3-Dichloropropene	10.88	75	728027	10.09 ug/l	100
56) Toluene	11.43	91	2028077	10.27 ug/l	100
57) Ethyl methacrylate	11.73	69	374108	9.72 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	514462	10.12 ug/l	98
59) 2-Hexanone	12.02	43	783853	46.04 ug/l	99
60) 1,1,2-Trichloroethane	12.01	97	270821	9.93 ug/l	99
61) 1,3-Dichloropropane	12.45	76	530172	9.90 ug/l	99
62) Tetrachloroethene	12.59	164	386526	10.02 ug/l	99
63) Dibromochloromethane	12.94	129	329347	9.80 ug/l	98
64) 1,2-Dibromoethane	13.31	107	255255	9.53 ug/l	99
65) 1-Chlorohexane	13.59	91	790130	9.77 ug/l	99
66) Chlorobenzene	14.07	112	1220581	10.32 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.15	131	389467	10.23 ug/l	99
68) Ethylbenzene	14.17	91	2346081	10.42 ug/l	99
69) m-Xylene & p-Xylene	14.30	91	3395978	20.53 ug/l	100
70) o-Xylene	15.13	91	1712168	10.60 ug/l	100
71) Styrene	15.19	104	1299778	10.68 ug/l	100
73) Isopropylbenzene	15.81	105	2063874	10.75 ug/l	100
74) Bromoform	15.84	173	161530	9.98 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	306094	9.77 ug/l	100
77) 1,2,3-Trichloropropane	16.43	110	73888	9.38 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.57	53	81956	10.14 ug/l	98
79) n-Propylbenzene	16.60	91	2751760	10.79 ug/l	100
80) Bromobenzene	16.68	156	412950	10.28 ug/l	98
81) 1,3,5-Trimethylbenzene	16.91	105	1643685	10.87 ug/l	99
82) 2-Chlorotoluene	16.94	91	1667857	10.75 ug/l	96
83) 4-Chlorotoluene	17.02	91	1461851	10.94 ug/l	95
84) tert-Butylbenzene	17.60	134	376974	10.98 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D
Acq On : 5 Jan 2011 8:34 pm
Sample : CVO01L1120
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 20:57 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1611238	10.79 ug/l	99
86) sec-Butylbenzene	18.00	105	2271501	10.79 ug/l	100
87) p-Isopropyltoluene	18.24	119	1755218	10.92 ug/l	99
88) 1,3-Dichlorobenzene	18.40	146	861715	10.63 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	821993	10.55 ug/l	99
90) n-Butylbenzene	18.89	91	1818213	10.79 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	692488	10.51 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	37552	9.62 ug/l	98
93) 1,2,4-Trichlorobenzene	21.32	180	421268	10.51 ug/l	98
94) Hexachlorobutadiene	21.49	225	267217	10.44 ug/l	99
95) Naphthalene	21.69	128	464503	10.01 ug/l	99
96) 1,2,3-Trichlorobenzene	22.01	180	319321	9.96 ug/l	99

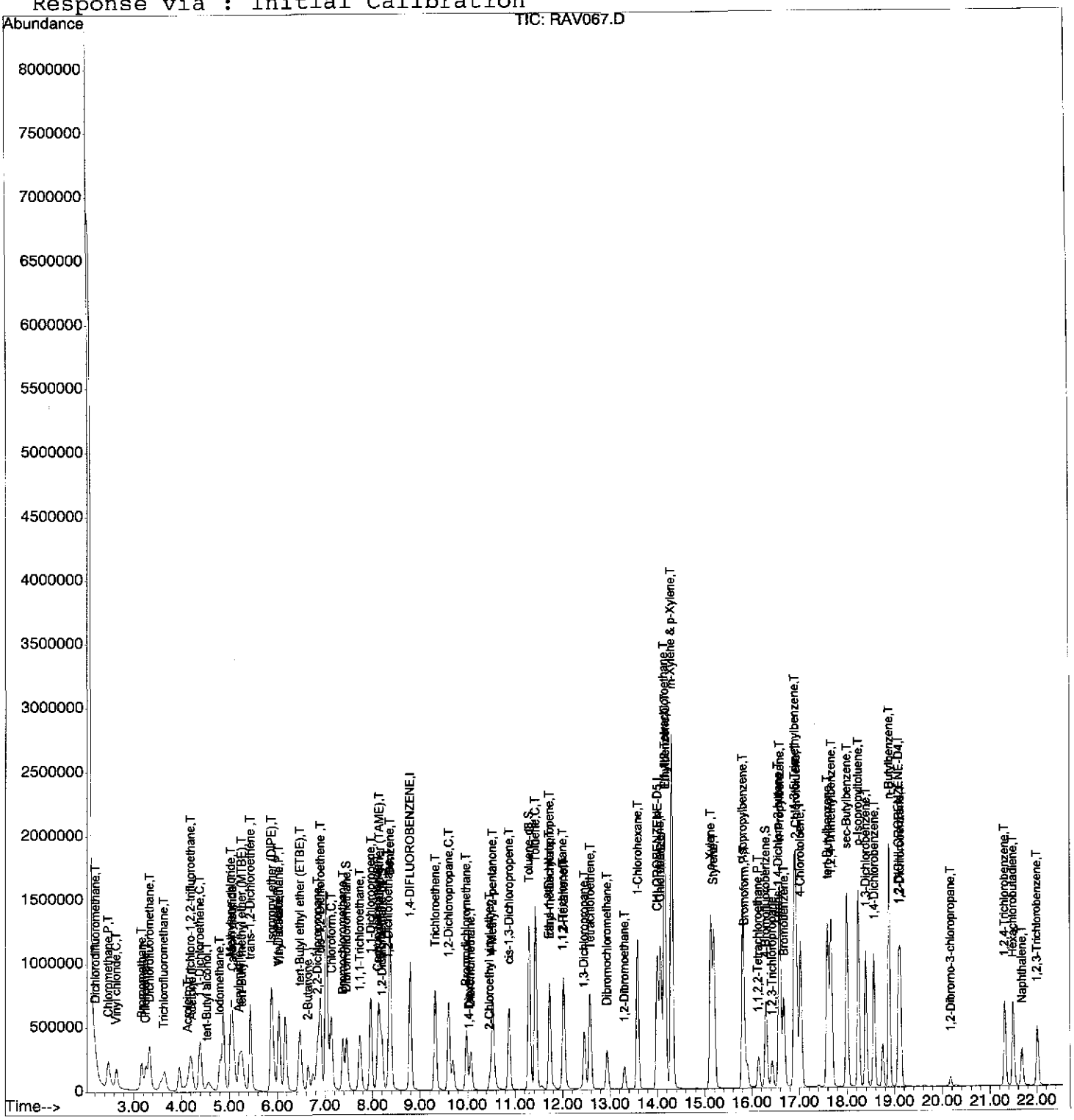
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A05\RAV067.D
Acq On : 5 Jan 2011 8:34 pm
Sample : CVO01L1120
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 5 20:57 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV084
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/06/11
BFB Injection Time : 15:29
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.15
75	30.0 - 60.0% of mass 95	45.60
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.41
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.31
175	5.0 - 9.0% of mass 174	5.29(7.1)1
176	95.0 - 101.0% of mass 174	73.07(98.3)1
177	5.0 - 9.0% of mass 176	4.70(6.4)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1121	RAV085	01/06/11	16:03
2	MBLK3W	V001A05B	RAV090	01/06/11	18:44
3	LCS3W	V001A05X	RAV088	01/06/11	17:39
4	LCD3W	V001A05C	RAV087	01/06/11	17:07
5	SSI-GW-005	A027-05R	RAV091	01/06/11	19:17
6	SSI-ER-001	A027-13R	RAV092	01/06/11	19:49
7	SSI-SWB-001	A027-14R	RAV093	01/06/11	20:22
8	SSI-GW-001DL	A027-01T	RAV097	01/06/11	22:33
9	SSI-GW-002DL	A027-02T	RAV098	01/06/11	23:07
10	SSI-GW-003DL	A027-03T	RAV099	01/06/11	23:39
11	SSI-GW-004DL	A027-04T	RAV100	01/07/11	00:12
12	SSI-GW-003	A027-03R	RAV101	01/07/11	00:44
13	SSI-GW-007	A027-07	RAV102	01/07/11	01:17
14	SSI-GW-004	A027-04R	RAV104	01/07/11	02:22
15	SSI-GW-006	A027-06R	RAV105	01/07/11	02:55

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: IO01
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1569389	8.80	1373301	14.01	487107	19.10
2	MBLK3W	1445821	8.80	1291886	14.01	454899	19.10
3	LCS3W	1520272	8.80	1325948	14.01	476083	19.10
4	LCD3W	1472056	8.80	1299105	14.01	458595	19.10
5	SSI-GW-005	1408341	8.80	1238857	14.01	438886	19.10
6	SSI-ER-001	1415748	8.80	1270109	14.01	432972	19.10
7	SSI-SWB-001	1419950	8.80	1240248	14.00	427501	19.09
8	SSI-GW-001DL	1346058	8.80	1197693	14.01	412835	19.10
9	SSI-GW-002DL	1356410	8.80	1208957	14.01	422709	19.10
10	SSI-GW-003DL	1350622	8.80	1201960	14.01	411318	19.10
11	SSI-GW-004DL	1340545	8.80	1196596	14.01	413458	19.10
12	SSI-GW-003	1443332	8.80	1255668	14.01	435603	19.10
13	SSI-GW-007	1442102	8.80	1261885	14.01	429552	19.10
14	SSI-GW-004	1391585	8.80	1223613	14.01	416537	19.10
15	SSI-GW-006	1435674	8.82	1278674	14.01	442916	19.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

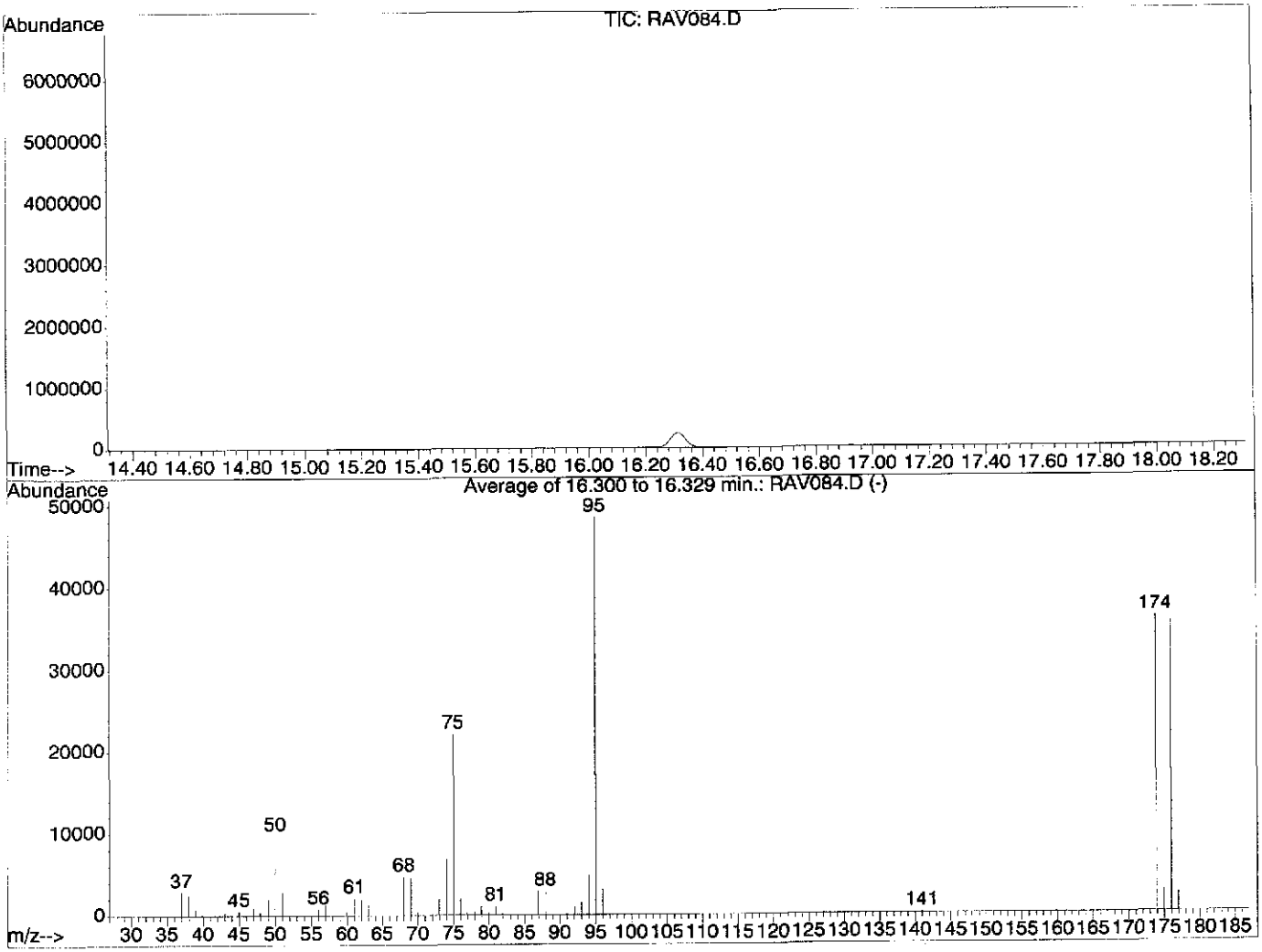
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

BFB

Data File : D:\HPCHEM\1\DATA\11A06\RAV084.D
Acq On : 6 Jan 2011 3:29 pm
Sample : BFB01A05
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 965, 966, 967; Background Corrected with Scan 957

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	9770	PASS
75	95	30	60	45.6	22107	PASS
95	95	100	100	100.0	48477	PASS
96	95	5	9	6.4	3110	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.3	36021	PASS
175	174	5	9	7.1	2565	PASS
176	174	95	101	98.3	35421	PASS
177	176	5	9	6.4	2278	PASS

RAV084.D VO01L11.M Fri Jan 07 06:01:36 2011

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	109	-0.01
2	T	Dichlorodifluoromethane	10.000	11.601	-16.0	116	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	94	-0.01
4	P,T	Chloromethane	10.000	11.219	-12.2	114	-0.01
5	C,T	Vinyl chloride	10.000	11.128	-11.3	127	-0.01
6	T	Bromomethane	10.000	11.455	-14.6	115	-0.01
7	T	Chloroethane	10.000	10.712	-7.1	109	0.00
8	T	Dichlorofluoromethane	10.000	8.684	13.2	92	-0.01
9	T	Trichlorofluoromethane	10.000	9.755	2.4	101	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	96	-0.01
11	T	Acrolein	50.000	33.570	32.9#	71	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	11.936	-19.4	123	-0.01
13	T	Acetone	50.000	43.617	12.8	93	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.636	-6.4	113	0.00
15	T	tert-Butyl alcohol	50.000	40.505	19.0	91	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.642	-6.4	110	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	100	0.00
19	T	Methylene chloride	10.000	8.974	10.3	100	-0.01
20	T	Carbon disulfide	10.000	10.354	-3.5	100	-0.01
21	T	Acrylonitrile	50.000	45.577	8.8	99	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.280	7.2	97	-0.01
23	T	trans-1,2-Dichloroethene	10.000	9.752	2.5	104	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.447	5.5	99	0.00
25	T	Vinyl acetate	10.000	8.142	18.6	84	0.00
26	P,T	1,1-Dichloroethane	10.000	10.134	-1.3	107	-0.01
27	T	2-Butanol	-1.000	0.000	0.0	100	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.368	6.3	98	-0.01
29	T	2-Butanone	50.000	45.949	8.1	100	0.00
30	T	2,2-Dichloropropane	10.000	10.038	-0.4	108	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.346	6.5	98	-0.01
32	C,T	Chloroform	10.000	9.976	0.2	106	-0.01
33	T	Bromochloromethane	10.000	9.573	4.3	99	0.00
34	S	Dibromofluoromethane	10.000	10.095	-1.0	103	-0.01
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.988	0.1	107	-0.01
37	T	Cyclohexane	-1.000	0.000	0.0	95	-0.01
38	T	1-Butanol	-1.000	0.000	0.0	89	-0.01
39	T	tert-Amyl methyl ether (TAM	10.000	9.640	3.6	100	-0.01
40	S	1,2-Dichloroethane-d4	10.000	10.205	-2.1	106	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~111~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.587	4.1	105	-0.01
43	T	Carbon tetrachloride	10.000	9.881	1.2	108	-0.01
44	T	1,2-Dichloroethane	10.000	9.490	5.1	101	-0.01
45	T	Benzene	10.000	9.510	4.9	103	-0.01
46	T	Trichloroethene	10.000	9.686	3.1	102	-0.01
47	T	Methylcyclohexane	-1.000	0.000	0.0	91	-0.01
48	C,T	1,2-Dichloropropane	10.000	9.593	4.1	103	0.00
49	T	1,4-Dioxane	200.000	159.571	20.2#	89	-0.01
50	T	Bromodichloromethane	10.000	9.120	8.8	97	-0.01
51	T	Dibromomethane	10.000	9.058	9.4	96	-0.01
52	T	2-Chloroethyl vinyl ether	10.000	7.401	26.0#	80	-0.01
53	T	4-Methyl-2-pentanone	50.000	44.398	11.2	98	-0.01
54	T	cis-1,3-Dichloropropene	10.000	9.571	4.3	102	0.00
55	S	Toluene-d8	10.000	10.461	-4.6	110	-0.01
56	C,T	Toluene	10.000	9.458	5.4	102	-0.01
57	T	Ethyl methacrylate	10.000	9.190	8.1	96	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.748	2.5	104	0.00
59	T	2-Hexanone	50.000	44.755	10.5	98	-0.01
60	T	1,1,2-Trichloroethane	10.000	9.456	5.4	100	-0.01
61	T	1,3-Dichloropropane	10.000	9.281	7.2	99	0.00
62	T	Tetrachloroethene	10.000	9.817	1.8	106	-0.01
63	T	Dibromochloromethane	10.000	9.034	9.7	94	-0.01
64	T	1,2-Dibromoethane	10.000	8.750	12.5	93	-0.01
65	T	1-Chlorohexane	10.000	9.967	0.3	107	-0.01
66	P	Chlorobenzene	10.000	9.733	2.7	103	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.213	7.9	98	-0.01
68	C,T	Ethylbenzene	10.000	9.306	6.9	102	-0.01
69	T	m-Xylene & p-Xylene	20.000	18.609	7.0	101	0.00
70	T	o-Xylene	10.000	9.470	5.3	100	-0.01
71	T	Styrene	10.000	9.699	3.0	100	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	108	0.00
73	T	Isopropylbenzene	10.000	9.883	1.2	104	0.00
74	P,T	Bromoform	10.000	9.353	6.5	95	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.017	9.8	96	0.00
76	S	4-Bromofluorobenzene	10.000	10.664	-6.6	108	-0.01
77	T	1,2,3-Trichloropropane	10.000	8.529	14.7	96	-0.01
78	T	trans-1,4-Dichloro-2-butene	10.000	9.180	8.2	95	-0.01
79	T	n-Propylbenzene	10.000	9.591	4.1	100	-0.01
80	T	Bromobenzene	10.000	9.480	5.2	99	-0.01
81	T	1,3,5-Trimethylbenzene	10.000	9.550	4.5	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.729	2.7	106	-0.01
83	T	4-Chlorotoluene	10.000	9.188	8.1	93	-0.01
84	T	tert-Butylbenzene	10.000	9.896	1.0	104	-0.01
85	T	1,2,4-Trimethylbenzene	10.000	9.772	2.3	101	-0.01
86	T	sec-Butylbenzene	10.000	9.747	2.5	103	-0.01
87	T	p-Isopropyltoluene	10.000	9.787	2.1	101	0.00
88	T	1,3-Dichlorobenzene	10.000	9.482	5.2	99	-0.01
89	T	1,4-Dichlorobenzene	10.000	9.559	4.4	99	0.00
90	T	n-Butylbenzene	10.000	9.781	2.2	102	-0.01
91	T	1,2-Dichlorobenzene	10.000	9.677	3.2	101	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	8.717	12.8	91	-0.01
93	T	1,2,4-Trichlorobenzene	10.000	9.773	2.3	103	0.00
94	T	Hexachlorobutadiene	10.000	9.771	2.3	101	-0.01
95	T	Naphthalene	10.000	9.885	1.2	108	-0.01
96	T	1,2,3-Trichlorobenzene	10.000	9.326	6.7	100	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CV001L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	109	-0.01
2	T	Dichlorodifluoromethane	0.175	0.203	-16.0	116	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	94	-0.01
4	P,T	Chloromethane	0.342	0.384	-12.3	114	-0.01
5	C,T	Vinyl chloride	0.292	0.325	-11.3	127	-0.01
6	T	Bromomethane	0.217	0.249	-14.7	115	-0.01
7	T	Chloroethane	0.227	0.243	-7.0	109	0.00
8	T	Dichlorofluoromethane	0.586	0.509	13.1	92	-0.01
9	T	Trichlorofluoromethane	0.332	0.324	2.4	101	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	96	-0.01
11	T	Acrolein	0.016	0.011	31.3#	71	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.190	-19.5	123	-0.01
13	T	Acetone	0.039	0.034	12.8	93	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.490	-6.5	113	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	91	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.516	-6.4	110	0.00
18	T	Methyl acetate	0.000	0.000	0.0	100	0.00
19	T	Methylene chloride	0.479	0.430	10.2	100	-0.01
20	T	Carbon disulfide	1.122	1.235	-10.1	100	-0.01
21	T	Acrylonitrile	0.052	0.048	7.7	99	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.422	7.3	97	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.503	2.5	104	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.195	5.5	99	0.00
25	T	Vinyl acetate	0.465	0.378	18.7	84	0.00
26	P,T	1,1-Dichloroethane	0.632	0.640	-1.3	107	-0.01
27	T	2-Butanol	0.000	0.000	0.0	100	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.706	6.2	98	-0.01
29	T	2-Butanone	0.074	0.068	8.1	100	0.00
30	T	2,2-Dichloropropane	0.381	0.382	-0.3	108	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.346	6.5	98	-0.01
32	C,T	Chloroform	0.545	0.544	0.2	106	-0.01
33	T	Bromochloromethane	0.274	0.262	4.4	99	0.00
34	S	Dibromofluoromethane	0.300	0.302	-0.7	103	-0.01
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.395	0.0	107	-0.01
37	T	Cyclohexane	0.000	0.000	0.0	95	-0.01
38	T	1-Butanol	0.000	0.000	0.0	89	-0.01
39	T	tert-Amyl methyl ether (TAM	0.112	0.108	3.6	100	-0.01
40	S	1,2-Dichloroethane-d4	0.234	0.239	-2.1	106	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~111~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D Vial: 3
Acq On : 6 Jan 2011 4:03 pm Operator: MW
Sample : CVO01L1121 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.184	4.2	105	-0.01
43	T	Carbon tetrachloride	0.378	0.374	1.1	108	-0.01
44	T	1,2-Dichloroethane	0.335	0.318	5.1	101	-0.01
45	T	Benzene	1.557	1.480	4.9	103	-0.01
46	T	Trichloroethene	0.413	0.400	3.1	102	-0.01
47	T	Methylcyclohexane	0.000	0.000	0.0	91	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.412	4.2	103	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	89	-0.01
50	T	Bromodichloromethane	0.460	0.419	8.9	97	-0.01
51	T	Dibromomethane	0.164	0.149	9.1	96	-0.01
52	T	2-Chloroethyl vinyl ether	0.106	0.079	25.5#	80	-0.01
53	T	4-Methyl-2-pentanone	0.220	0.196	10.9	98	-0.01
54	T	cis-1,3-Dichloropropene	0.581	0.556	4.3	102	0.00
55	S	Toluene-d8	1.303	1.363	-4.6	110	-0.01
56	C,T	Toluene	1.591	1.504	5.5	102	-0.01
57	T	Ethyl methacrylate	0.310	0.285	8.1	96	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.399	2.4	104	0.00
59	T	2-Hexanone	0.137	0.123	10.2	98	-0.01
60	T	1,1,2-Trichloroethane	0.220	0.208	5.5	100	-0.01
61	T	1,3-Dichloropropane	0.431	0.400	7.2	99	0.00
62	T	Tetrachloroethene	0.311	0.305	1.9	106	-0.01
63	T	Dibromochloromethane	0.271	0.244	10.0	94	-0.01
64	T	1,2-Dibromoethane	0.216	0.189	12.5	93	-0.01
65	T	1-Chlorohexane	0.651	0.649	0.3	107	-0.01
66	P	Chlorobenzene	0.952	0.926	2.7	103	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.282	8.1	98	-0.01
68	C,T	Ethylbenzene	1.813	1.687	6.9	102	-0.01
69	T	m-Xylene & p-Xylene	1.332	1.240	6.9	101	0.00
70	T	o-Xylene	1.301	1.232	5.3	100	-0.01
71	T	Styrene	0.980	0.951	3.0	100	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	108	0.00
73	T	Isopropylbenzene	4.392	4.341	1.2	104	0.00
74	P,T	Bromoform	0.370	0.346	6.5	95	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.646	9.8	96	0.00
76	S	4-Bromofluorobenzene	1.134	1.209	-6.6	108	-0.01
77	T	1,2,3-Trichloropropane	0.180	0.154	14.4	96	-0.01
78	T	trans-1,4-Dichloro-2-butene	0.185	0.170	8.1	95	-0.01
79	T	n-Propylbenzene	5.832	5.593	4.1	100	-0.01
80	T	Bromobenzene	0.918	0.871	5.1	99	-0.01
81	T	1,3,5-Trimethylbenzene	3.456	3.301	4.5	100	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.453	2.7	106	-0.01
83	T	4-Chlorotoluene	3.056	2.808	8.1	93	-0.01
84	T	tert-Butylbenzene	0.785	0.777	1.0	104	-0.01
85	T	1,2,4-Trimethylbenzene	3.415	3.337	2.3	101	-0.01
86	T	sec-Butylbenzene	4.814	4.692	2.5	103	-0.01
87	T	p-Isopropyltoluene	3.675	3.596	2.1	101	0.00
88	T	1,3-Dichlorobenzene	1.854	1.759	5.1	99	-0.01
89	T	1,4-Dichlorobenzene	1.782	1.703	4.4	99	0.00
90	T	n-Butylbenzene	3.853	3.769	2.2	102	-0.01
91	T	1,2-Dichlorobenzene	1.506	1.458	3.2	101	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.078	12.4	91	-0.01
93	T	1,2,4-Trichlorobenzene	0.916	0.896	2.2	103	0.00
94	T	Hexachlorobutadiene	0.585	0.572	2.2	101	-0.01
95	T	Naphthalene	1.061	1.049	1.1	108	-0.01
96	T	1,2,3-Trichlorobenzene	0.733	0.683	6.8	100	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 16:25 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1569389	10.00 ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1373301	10.00 ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	487107	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.46	111	474691	10.09 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 100.90%	
40) 1,2-Dichloroethane-d4	8.20	65	375296	10.20 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 102.00%	
55) Toluene-d8	11.30	98	1871239	10.46 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 104.60%	
76) 4-Bromofluorobenzene	16.31	95	589061	10.66 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 106.60%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	318534	11.60 ug/l	99
4) Chloromethane	2.47	50	602146	11.22 ug/l	100
5) Vinyl chloride	2.65	62	509983	11.13 ug/l	100
6) Bromomethane	3.17	94	390371	11.46 ug/l	100
7) Chloroethane	3.25	64	381011	10.71 ug/l	98
8) Dichlorofluoromethane	3.33	67	798349	8.68 ug/l	100
9) Trichlorofluoromethane	3.64	101	509029	9.75 ug/l	99
11) Acrolein	4.13	56	84895	33.57 ug/l #	60
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	298346	11.94 ug/l	100
13) Acetone	4.22	43	270033	43.62 ug/l	97
14) 1,1-Dichloroethene	4.39	61	768274	10.64 ug/l	99
15) tert-Butyl alcohol	4.53	59	93237	40.50 ug/l	97
17) Iodomethane	4.81	142	809991	10.64 ug/l	100
19) Methylene chloride	5.03	49	674506	8.97 ug/l	98
20) Carbon disulfide	5.06	76	1938541	10.35 ug/l	100
21) Acrylonitrile	5.21	53	373477	45.58 ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	662244	9.28 ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	789340	9.75 ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1875690	9.45 ug/l	99
25) Vinyl acetate	6.04	43	593571	8.14 ug/l	99
26) 1,1-Dichloroethane	6.04	63	1004793	10.13 ug/l	100
28) tert-Butyl ethyl ether (ET	6.47	59	1107550	9.37 ug/l	99
29) 2-Butanone	6.64	43	532665	45.95 ug/l	99
30) 2,2-Dichloropropane	6.85	77	599569	10.04 ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	543304	9.35 ug/l	99
32) Chloroform	7.13	83	853504	9.98 ug/l	100
33) Bromochloromethane	7.38	49	411018	9.57 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 16:25 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	619613	9.99 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	168961	9.64 ug/l	95
42) 1,1-Dichloropropene	7.96	110	252863	9.59 ug/l	99
43) Carbon tetrachloride	8.12	119	513263	9.88 ug/l	97
44) 1,2-Dichloroethane	8.34	62	436851	9.49 ug/l	100
45) Benzene	8.37	78	2033153	9.51 ug/l	99
46) Trichloroethene	9.32	130	549072	9.69 ug/l	99
48) 1,2-Dichloropropane	9.62	63	565977	9.59 ug/l	97
49) 1,4-Dioxane	10.05	88	29745	159.57 ug/l	87
50) Bromodichloromethane	9.99	83	575801	9.12 ug/l	99
51) Dibromomethane	10.08	93	204519	9.06 ug/l	99
52) 2-Chloroethyl vinyl ether	10.48	63	108190	7.40 ug/l	100
53) 4-Methyl-2-pentanone	10.53	43	1342626	44.40 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	763591	9.57 ug/l	99
56) Toluene	11.44	91	2065784	9.46 ug/l	100
57) Ethyl methacrylate	11.73	69	391200	9.19 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	547881	9.75 ug/l	96
59) 2-Hexanone	12.03	43	842534	44.76 ug/l	100
60) 1,1,2-Trichloroethane	12.01	97	285301	9.46 ug/l	99
61) 1,3-Dichloropropane	12.47	76	549854	9.28 ug/l	99
62) Tetrachloroethene	12.59	164	418891	9.82 ug/l	99
63) Dibromochloromethane	12.95	129	335706	9.03 ug/l	98
64) 1,2-Dibromoethane	13.32	107	259289	8.75 ug/l	99
65) 1-Chlorohexane	13.60	91	891336	9.97 ug/l	100
66) Chlorobenzene	14.09	112	1272321	9.73 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.16	131	387833	9.21 ug/l	99
68) Ethylbenzene	14.17	91	2317280	9.31 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3404419	18.61 ug/l	100
70) o-Xylene	15.14	91	1691442	9.47 ug/l	99
71) Styrene	15.21	104	1305465	9.70 ug/l	99
73) Isopropylbenzene	15.83	105	2114325	9.88 ug/l	99
74) Bromoform	15.86	173	168569	9.35 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	314519	9.02 ug/l	100
77) 1,2,3-Trichloropropane	16.44	110	74866	8.53 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.57	53	82663	9.18 ug/l	98
79) n-Propylbenzene	16.60	91	2724385	9.59 ug/l	99
80) Bromobenzene	16.69	156	424114	9.48 ug/l	99
81) 1,3,5-Trimethylbenzene	16.91	105	1607958	9.55 ug/l	98
82) 2-Chlorotoluene	16.94	91	1682100	9.73 ug/l	96
83) 4-Chlorotoluene	17.04	91	1367755	9.19 ug/l	94
84) tert-Butylbenzene	17.61	134	378443	9.90 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 16:25 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.68	105	1625570	9.77 ug/l	98
86) sec-Butylbenzene	18.01	105	2285744	9.75 ug/l	99
87) p-Isopropyltoluene	18.26	119	1751826	9.79 ug/l	99
88) 1,3-Dichlorobenzene	18.41	146	856581	9.48 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	829627	9.56 ug/l	99
90) n-Butylbenzene	18.89	91	1835678	9.78 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	710054	9.68 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	37909	8.72 ug/l	97
93) 1,2,4-Trichlorobenzene	21.34	180	436296	9.77 ug/l	99
94) Hexachlorobutadiene	21.51	225	278500	9.77 ug/l	98
95) Naphthalene	21.69	128	510828	9.88 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	332920	9.33 ug/l	98

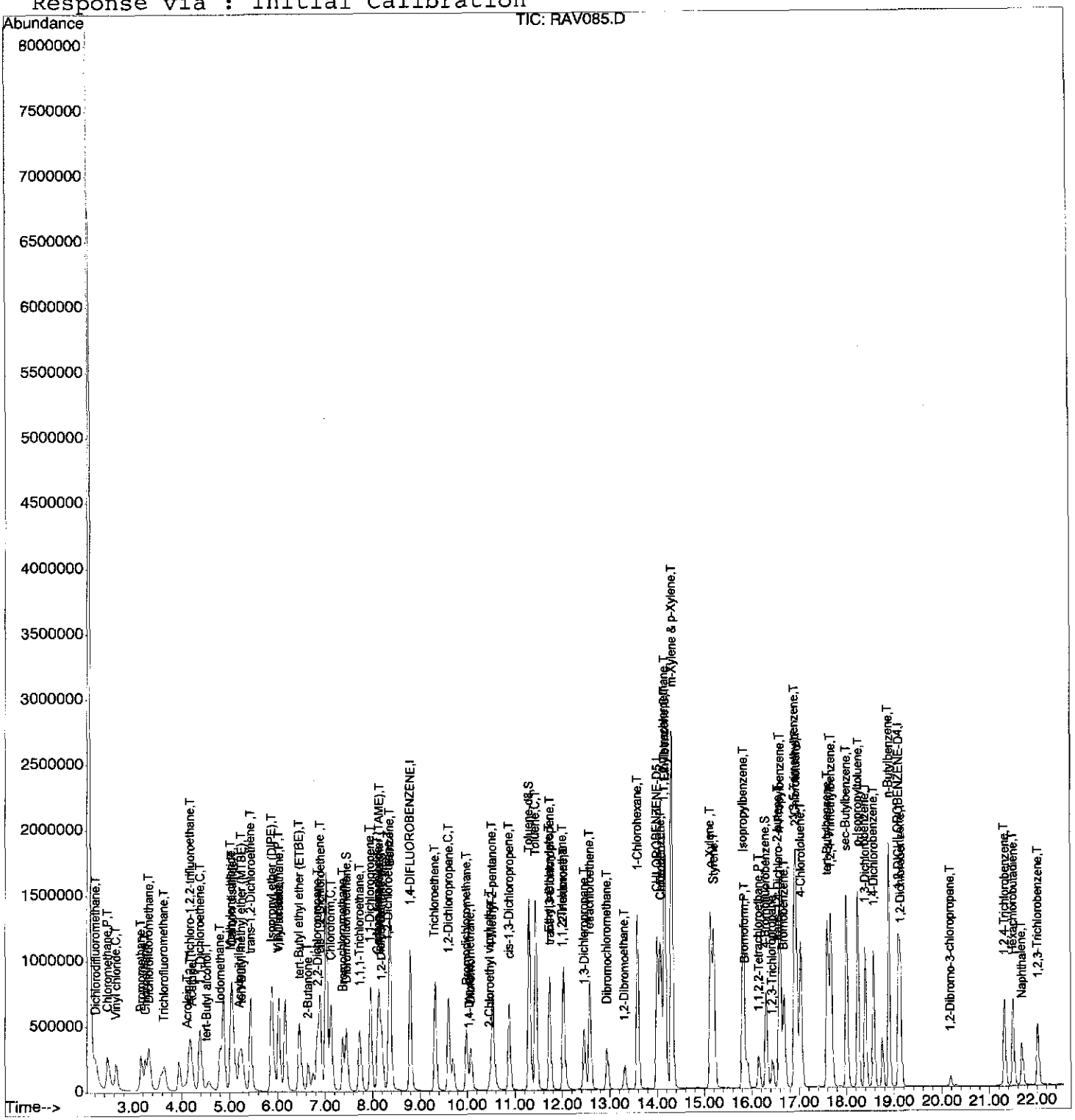
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV085.D
Acq On : 6 Jan 2011 4:03 pm
Sample : CVO01L1121
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 6 16:25 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV108
Instrument ID: T001
GC Column:RTX502.21D:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/07/11
BFB Injection Time : 04:35
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.50
75	30.0 - 60.0% of mass 95	45.07
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.50
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.23
175	5.0 - 9.0% of mass 174	5.32(7.2)1
176	95.0 - 101.0% of mass 174	70.60(95.1)1
177	5.0 - 9.0% of mass 176	4.48(6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1122	RAV109	01/07/11	05:07
2	MBLK4W	V001A06B	RAV113	01/07/11	07:20
3	LCS4W	V001A06L	RAV110	01/07/11	05:41
4	LCD4W	V001A06C	RAV111	01/07/11	06:14
5	SSI-GW-006DL	A027-06T	RAV114	01/07/11	07:53
6	SSI-GW-009DL	A027-09T	RAV115	01/07/11	08:26
7	SSI-GW-010DL	A027-10T	RAV116	01/07/11	08:59
8	SSI-GW-011DL	A027-11T	RAV117	01/07/11	09:31
9	SSI-D-001DL	A027-12T	RAV118	01/07/11	10:05

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1475382	8.82	1303121	14.01	471461	19.10
2	MBLK4W	1366045	8.80	1200048	14.01	421701	19.10
3	LCS4W	1490023	8.82	1323622	14.01	471531	19.10
4	LCD4W	1323450	8.80	1174008	14.01	401507	19.10
5	SSI-GW-006DL	1286901	8.82	1165178	14.01	427036	19.10
6	SSI-GW-009DL	1305417	8.80	1171503	14.01	408660	19.10
7	SSI-GW-010DL	1290586	8.80	1158052	14.01	402719	19.10
8	SSI-GW-011DL	1259838	8.80	1137963	14.01	390568	19.10
9	SSI-D-001DL	1260723	8.80	1135873	14.01	397158	19.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

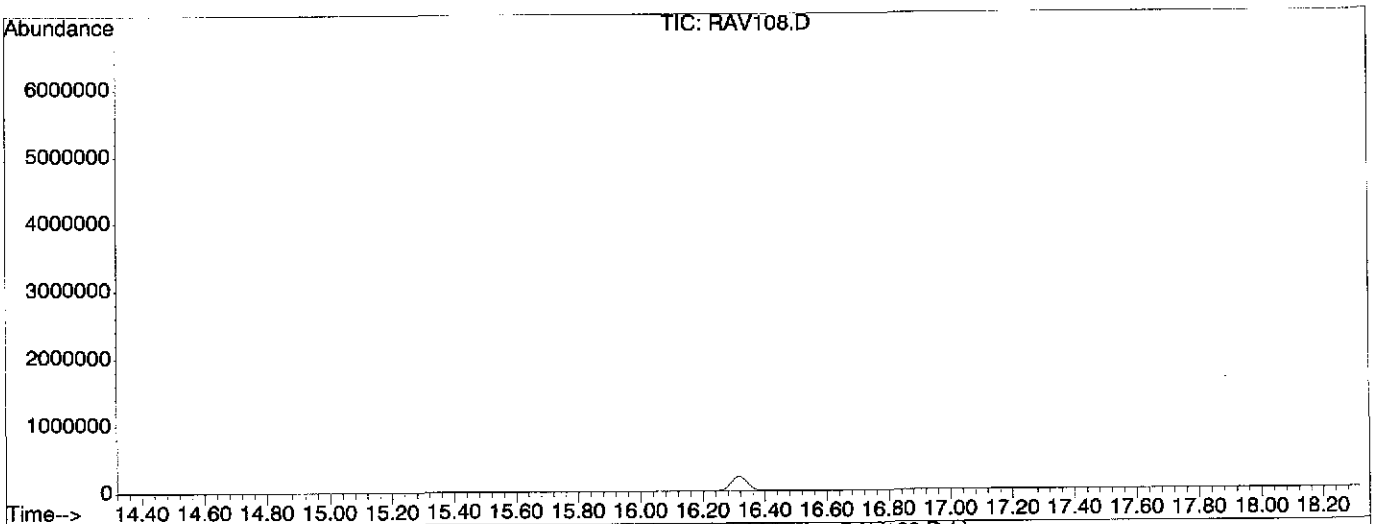
Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

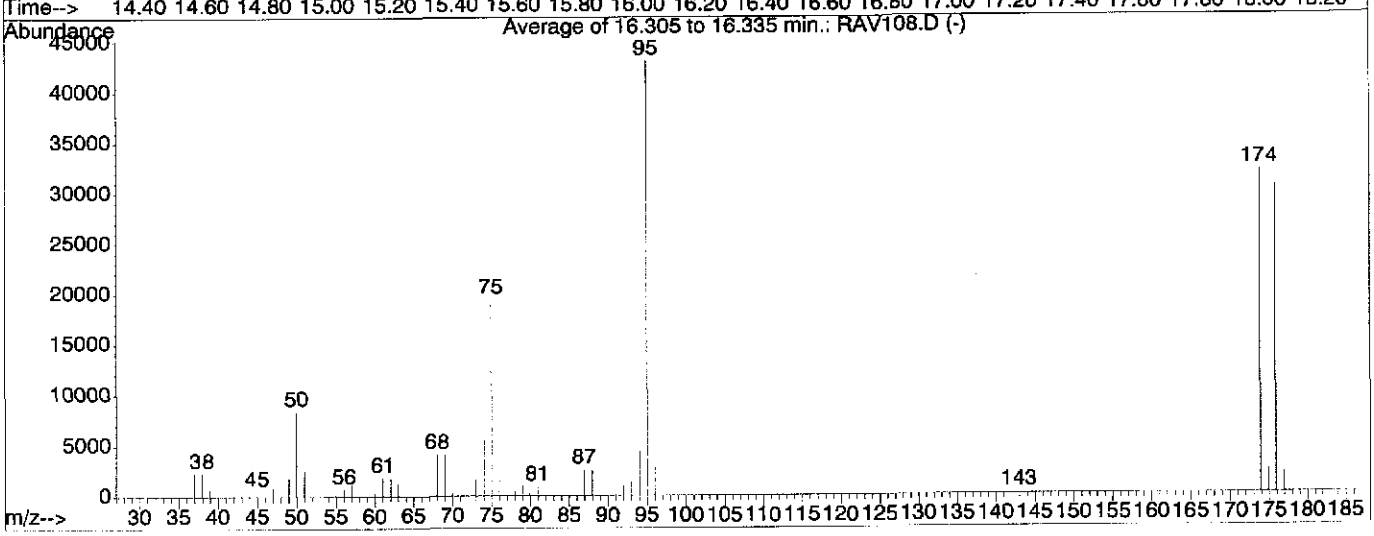
FORM VIII VOA-8260 1/2000

BFB

Data File : D:\HPCHEM\1\DATA\11A06\RAV108.D
Acq On : 7 Jan 2011 4:35 am
Sample : BFB01A06
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00





AutoFind: Scans 965, 966, 967; Background Corrected with Scan 955

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	8390	PASS
75	95	30	60	45.1	19394	PASS
95	95	100	100	100.0	43035	PASS
96	95	5	9	6.5	2799	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.2	31944	PASS
175	174	5	9	7.2	2291	PASS
176	174	95	101	95.1	30384	PASS
177	176	5	9	6.3	1927	PASS

RAV108.D VO01L11.M Fri Jan 07 07:35:04 2011

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	10.000	8.461	15.4	80	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	10.000	10.679	-6.8	102	0.00
5	C,T	Vinyl chloride	10.000	9.942	0.6	107	0.00
6	T	Bromomethane	10.000	11.179	-11.8	105	0.00
7	T	Chloroethane	10.000	10.219	-2.2	98	0.01
8	T	Dichlorofluoromethane	10.000	8.508	14.9	85	0.00
9	T	Trichlorofluoromethane	10.000	7.439	25.6#	72	0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	93	0.00
11	T	Acrolein	50.000	26.835	46.3#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	8.762	12.4	85	0.00
13	T	Acetone	50.000	42.592	14.8	86	0.00
14	C,T	1,1-Dichloroethene	10.000	9.566	4.3	95	0.01
15	T	tert-Butyl alcohol	50.000	37.556	24.9#	79	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.589	-5.9	103	0.01
18	T	Methyl acetate	-1.000	0.000	0.0	93	0.01
19	T	Methylene chloride	10.000	9.127	8.7	96	0.00
20	T	Carbon disulfide	10.000	9.186	8.1	83	0.02
21	T	Acrylonitrile	50.000	45.553	8.9	93	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.140	8.6	90	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.647	3.5	97	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.625	3.8	95	0.00
25	T	Vinyl acetate	10.000	5.799	42.0#	56	0.00
26	P,T	1,1-Dichloroethane	10.000	10.083	-0.8	100	0.00
27	T	2-Butanol	-1.000	0.000	0.0	93	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.533	4.7	94	0.00
29	T	2-Butanone	50.000	45.333	9.3	93	0.01
30	T	2,2-Dichloropropane	10.000	7.514	24.9#	76	0.01
31	T	cis-1,2-Dichloroethene	10.000	9.239	7.6	91	0.00
32	C,T	Chloroform	10.000	10.004	-0.0	100	0.00
33	T	Bromochloromethane	10.000	9.681	3.2	94	0.00
34	S	Dibromofluoromethane	10.000	10.041	-0.4	96	0.00
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.199	8.0	92	0.00
37	T	Cyclohexane	-1.000	0.000	0.0	87	0.00
38	T	1-Butanol	-1.000	0.000	0.0	80	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.619	3.8	94	0.00
40	S	1,2-Dichloroethane-d4	10.000	10.229	-2.3	100	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~105~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CVO01L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	8.722	12.8	91	0.00
43	T	Carbon tetrachloride	10.000	8.629	13.7	89	0.00
44	T	1,2-Dichloroethane	10.000	9.542	4.6	97	0.00
45	T	Benzene	10.000	9.448	5.5	97	0.00
46	T	Trichloroethene	10.000	9.934	0.7	99	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	101	0.00
48	C,T	1,2-Dichloropropane	10.000	9.823	1.8	100	0.00
49	T	1,4-Dioxane	200.000	154.483	22.8#	81	0.00
50	T	Bromodichloromethane	10.000	9.258	7.4	93	0.00
51	T	Dibromomethane	10.000	9.141	8.6	92	0.00
52	T	2-Chloroethyl vinyl ether	10.000	7.343	26.6#	76	0.00
53	T	4-Methyl-2-pentanone	50.000	43.996	12.0	92	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.255	7.4	93	0.00
55	S	Toluene-d8	10.000	10.491	-4.9	105	0.00
56	C,T	Toluene	10.000	9.498	5.0	98	0.00
57	T	Ethyl methacrylate	10.000	8.966	10.3	89	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.296	7.0	94	0.00
59	T	2-Hexanone	50.000	44.645	10.7	93	0.00
60	T	1,1,2-Trichloroethane	10.000	9.434	5.7	95	0.00
61	T	1,3-Dichloropropane	10.000	9.347	6.5	94	0.00
62	T	Tetrachloroethene	10.000	9.149	8.5	94	-0.01
63	T	Dibromochloromethane	10.000	9.157	8.4	91	0.00
64	T	1,2-Dibromoethane	10.000	8.705	13.0	87	-0.01
65	T	1-Chlorohexane	10.000	8.686	13.1	88	-0.01
66	P	Chlorobenzene	10.000	9.735	2.7	98	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.245	7.6	93	-0.01
68	C,T	Ethylbenzene	10.000	9.195	8.0	95	0.00
69	T	m-Xylene & p-Xylene	20.000	18.435	7.8	95	0.00
70	T	o-Xylene	10.000	9.487	5.1	95	0.00
71	T	Styrene	10.000	9.732	2.7	95	-0.01
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	104	0.00
73	T	Isopropylbenzene	10.000	9.422	5.8	96	0.00
74	P,T	Bromoform	10.000	9.190	8.1	91	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	8.562	14.4	88	0.00
76	S	4-Bromofluorobenzene	10.000	10.637	-6.4	105	0.00
77	T	1,2,3-Trichloropropane	10.000	8.671	13.3	95	0.00
78	T	trans-1,4-Dichloro-2-butene	10.000	8.118	18.8	81	-0.01
79	T	n-Propylbenzene	10.000	9.122	8.8	92	0.00
80	T	Bromobenzene	10.000	9.347	6.5	95	0.00
81	T	1,3,5-Trimethylbenzene	10.000	9.377	6.2	95	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.327	6.7	98	0.00
83	T	4-Chlorotoluene	10.000	9.333	6.7	92	-0.01
84	T	tert-Butylbenzene	10.000	9.389	6.1	96	0.00
85	T	1,2,4-Trimethylbenzene	10.000	9.688	3.1	97	0.00
86	T	sec-Butylbenzene	10.000	9.090	9.1	93	0.00
87	T	p-Isopropyltoluene	10.000	9.186	8.1	92	0.00
88	T	1,3-Dichlorobenzene	10.000	9.355	6.4	95	0.00
89	T	1,4-Dichlorobenzene	10.000	9.505	4.9	96	0.00
90	T	n-Butylbenzene	10.000	9.005	9.9	91	0.00
91	T	1,2-Dichlorobenzene	10.000	9.587	4.1	96	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	8.819	11.8	89	0.00
93	T	1,2,4-Trichlorobenzene	10.000	9.494	5.1	97	0.00
94	T	Hexachlorobutadiene	10.000	8.721	12.8	88	-0.01
95	T	Naphthalene	10.000	9.822	1.8	104	0.00
96	T	1,2,3-Trichlorobenzene	10.000	9.149	8.5	95	-0.01

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	102	0.00
2	T	Dichlorodifluoromethane	0.175	0.148	15.4	80	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	0.342	0.365	-6.7	102	0.00
5	C,T	Vinyl chloride	0.292	0.290	0.7	107	0.00
6	T	Bromomethane	0.217	0.243	-12.0	105	0.00
7	T	Chloroethane	0.227	0.232	-2.2	98	0.01
8	T	Dichlorofluoromethane	0.586	0.498	15.0	85	0.00
9	T	Trichlorofluoromethane	0.332	0.247	25.6#	72	0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	93	0.00
11	T	Acrolein	0.016	0.009	43.8#	53	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.140	11.9	85	0.00
13	T	Acetone	0.039	0.034	12.8	86	0.00
14	C,T	1,1-Dichloroethene	0.460	0.440	4.3	95	0.01
15	T	tert-Butyl alcohol	0.015	0.011	26.7#	79	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.514	-6.0	103	0.01
18	T	Methyl acetate	0.000	0.000	0.0	93	0.01
19	T	Methylene chloride	0.479	0.437	8.8	96	0.00
20	T	Carbon disulfide	1.122	1.094	2.5	83	0.02
21	T	Acrylonitrile	0.052	0.048	7.7	93	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.416	8.6	90	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.498	3.5	97	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.218	3.7	95	0.00
25	T	Vinyl acetate	0.465	0.269	42.2#	56	0.00
26	P,T	1,1-Dichloroethane	0.632	0.637	-0.8	100	0.00
27	T	2-Butanol	0.000	0.000	0.0	93	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.718	4.6	94	0.00
29	T	2-Butanone	0.074	0.067	9.5	93	0.01
30	T	2,2-Dichloropropane	0.381	0.286	24.9#	76	0.01
31	T	cis-1,2-Dichloroethene	0.370	0.342	7.6	91	0.00
32	C,T	Chloroform	0.545	0.545	0.0	100	0.00
33	T	Bromochloromethane	0.274	0.265	3.3	94	0.00
34	S	Dibromofluoromethane	0.300	0.301	-0.3	96	0.00
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.364	7.8	92	0.00
37	T	Cyclohexane	0.000	0.000	0.0	87	0.00
38	T	1-Butanol	0.000	0.000	0.0	80	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.107	4.5	94	0.00
40	S	1,2-Dichloroethane-d4	0.234	0.240	-2.6	100	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~105~~	~~0.01~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.168	12.5	91	0.00
43	T	Carbon tetrachloride	0.378	0.326	13.8	89	0.00
44	T	1,2-Dichloroethane	0.335	0.320	4.5	97	0.00
45	T	Benzene	1.557	1.471	5.5	97	0.00
46	T	Trichloroethene	0.413	0.410	0.7	99	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	101	0.00
48	C,T	1,2-Dichloropropane	0.430	0.422	1.9	100	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	81	0.00
50	T	Bromodichloromethane	0.460	0.426	7.4	93	0.00
51	T	Dibromomethane	0.164	0.150	8.5	92	0.00
52	T	2-Chloroethyl vinyl ether	0.106	0.078	26.4#	76	0.00
53	T	4-Methyl-2-pentanone	0.220	0.194	11.8	92	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.538	7.4	93	0.00
55	S	Toluene-d8	1.303	1.366	-4.8	105	0.00
56	C,T	Toluene	1.591	1.511	5.0	98	0.00
57	T	Ethyl methacrylate	0.310	0.278	10.3	89	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.380	7.1	94	0.00
59	T	2-Hexanone	0.137	0.122	10.9	93	0.00
60	T	1,1,2-Trichloroethane	0.220	0.207	5.9	95	0.00
61	T	1,3-Dichloropropane	0.431	0.403	6.5	94	0.00
62	T	Tetrachloroethene	0.311	0.284	8.7	94	-0.01
63	T	Dibromochloromethane	0.271	0.248	8.5	91	0.00
64	T	1,2-Dibromoethane	0.216	0.188	13.0	87	-0.01
65	T	1-Chlorohexane	0.651	0.566	13.1	88	-0.01
66	P	Chlorobenzene	0.952	0.927	2.6	98	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.283	7.8	93	-0.01
68	C,T	Ethylbenzene	1.813	1.667	8.1	95	0.00
69	T	m-Xylene & p-Xylene	1.332	1.228	7.8	95	0.00
70	T	o-Xylene	1.301	1.234	5.1	95	0.00
71	T	Styrene	0.980	0.954	2.7	95	-0.01
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	104	0.00
73	T	Isopropylbenzene	4.392	4.138	5.8	96	0.00
74	P,T	Bromoform	0.370	0.340	8.1	91	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.613	14.4	88	0.00
76	S	4-Bromofluorobenzene	1.134	1.206	-6.3	105	0.00
77	T	1,2,3-Trichloropropane	0.180	0.156	13.3	95	0.00
78	T	trans-1,4-Dichloro-2-butene	0.185	0.150	18.9	81	-0.01
79	T	n-Propylbenzene	5.832	5.320	8.8	92	0.00
80	T	Bromobenzene	0.918	0.858	6.5	95	0.00
81	T	1,3,5-Trimethylbenzene	3.456	3.241	6.2	95	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.311	6.7	98	0.00
83	T	4-Chlorotoluene	3.056	2.852	6.7	92	-0.01
84	T	tert-Butylbenzene	0.785	0.737	6.1	96	0.00
85	T	1,2,4-Trimethylbenzene	3.415	3.308	3.1	97	0.00
86	T	sec-Butylbenzene	4.814	4.376	9.1	93	0.00
87	T	p-Isopropyltoluene	3.675	3.376	8.1	92	0.00
88	T	1,3-Dichlorobenzene	1.854	1.735	6.4	95	0.00
89	T	1,4-Dichlorobenzene	1.782	1.694	4.9	96	0.00
90	T	n-Butylbenzene	3.853	3.470	9.9	91	0.00
91	T	1,2-Dichlorobenzene	1.506	1.444	4.1	96	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.079	11.2	89	0.00
93	T	1,2,4-Trichlorobenzene	0.916	0.870	5.0	97	0.00
94	T	Hexachlorobutadiene	0.585	0.510	12.8	88	-0.01
95	T	Naphthalene	1.061	1.042	1.8	104	0.00
96	T	1,2,3-Trichlorobenzene	0.733	0.670	8.6	95	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CV001L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 5:30 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1475382	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1303121	10.00	ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	471461	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	443885	10.04	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.40%	
40) 1,2-Dichloroethane-d4	8.21	65	353650	10.23	ug/l	0.00
Spiked Amount 10.000			Recovery	=	102.30%	
55) Toluene-d8	11.32	98	1780636	10.49	ug/l	0.00
Spiked Amount 10.000			Recovery	=	104.90%	
76) 4-Bromofluorobenzene	16.32	95	568720	10.64	ug/l	0.00
Spiked Amount 10.000			Recovery	=	106.40%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	218400	8.46	ug/l	99
4) Chloromethane	2.48	50	538849	10.68	ug/l	100
5) Vinyl chloride	2.66	62	428336	9.94	ug/l	100
6) Bromomethane	3.18	94	358139	11.18	ug/l	99
7) Chloroethane	3.27	64	341673	10.22	ug/l	99
8) Dichlorofluoromethane	3.34	67	735327	8.51	ug/l	100
9) Trichlorofluoromethane	3.65	101	364924	7.44	ug/l	99
11) Acrolein	4.14	56	63798	26.84	ug/l #	53
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	205874	8.76	ug/l	99
13) Acetone	4.23	43	247891	42.59	ug/l	98
14) 1,1-Dichloroethene	4.41	61	649547	9.57	ug/l	99
15) tert-Butyl alcohol	4.52	59	81271	37.56	ug/l	94
17) Iodomethane	4.82	142	757650	10.59	ug/l	99
19) Methylene chloride	5.04	49	644921	9.13	ug/l	99
20) Carbon disulfide	5.09	76	1613926	9.19	ug/l	99
21) Acrylonitrile	5.21	53	350924	45.55	ug/l	100
22) tert-Butyl methyl ether (M	5.26	73	613140	9.14	ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	734044	9.65	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	1796601	9.62	ug/l	100
25) Vinyl acetate	6.03	43	397472	5.80	ug/l	98
26) 1,1-Dichloroethane	6.05	63	939831	10.08	ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	1059516	9.53	ug/l	100
29) 2-Butanone	6.66	43	494042	45.33	ug/l	99
30) 2,2-Dichloropropane	6.86	77	421947	7.51	ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	504906	9.24	ug/l	99
32) Chloroform	7.14	83	804630	10.00	ug/l	100
33) Bromochloromethane	7.38	49	390763	9.68	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CV001L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 5:30 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	536529	9.20 ug/l	99
39) tert-Amyl methyl ether (TA	8.16	87	158505	9.62 ug/l	97
42) 1,1-Dichloropropene	7.97	110	218300	8.72 ug/l	100
43) Carbon tetrachloride	8.14	119	425306	8.63 ug/l	99
44) 1,2-Dichloroethane	8.36	62	416798	9.54 ug/l	99
45) Benzene	8.39	78	1916852	9.45 ug/l	100
46) Trichloroethene	9.33	130	534402	9.93 ug/l	100
48) 1,2-Dichloropropane	9.61	63	549904	9.82 ug/l	96
49) 1,4-Dioxane	10.06	88	27325	154.48 ug/l	97
50) Bromodichloromethane	10.00	83	554672	9.26 ug/l	99
51) Dibromomethane	10.09	93	195830	9.14 ug/l	97
52) 2-Chloroethyl vinyl ether	10.49	63	101862	7.34 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	1262471	44.00 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	700641	9.25 ug/l	99
56) Toluene	11.45	91	1968551	9.50 ug/l	100
57) Ethyl methacrylate	11.73	69	362149	8.97 ug/l	98
58) trans-1,3-Dichloropropene	11.75	75	495741	9.30 ug/l	97
59) 2-Hexanone	12.04	43	797515	44.65 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	270088	9.43 ug/l	100
61) 1,3-Dichloropropane	12.47	76	525452	9.35 ug/l	99
62) Tetrachloroethene	12.59	164	370430	9.15 ug/l	99
63) Dibromochloromethane	12.96	129	322881	9.16 ug/l	99
64) 1,2-Dibromoethane	13.31	107	244757	8.70 ug/l	99
65) 1-Chlorohexane	13.59	91	737014	8.69 ug/l	99
66) Chlorobenzene	14.08	112	1207575	9.73 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.16	131	369321	9.25 ug/l	99
68) Ethylbenzene	14.19	91	2172588	9.20 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	3200313	18.44 ug/l	100
70) o-Xylene	15.15	91	1607831	9.49 ug/l	99
71) Styrene	15.21	104	1243031	9.73 ug/l	100
73) Isopropylbenzene	15.83	105	1950949	9.42 ug/l	100
74) Bromoform	15.86	173	160296	9.19 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.15	83	289063	8.56 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	73668	8.67 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.57	53	70746	8.12 ug/l	99
79) n-Propylbenzene	16.61	91	2508107	9.12 ug/l	99
80) Bromobenzene	16.70	156	404736	9.35 ug/l	99
81) 1,3,5-Trimethylbenzene	16.91	105	1528039	9.38 ug/l	99
82) 2-Chlorotoluene	16.95	91	1560865	9.33 ug/l	97
83) 4-Chlorotoluene	17.04	91	1344616	9.33 ug/l	94
84) tert-Butylbenzene	17.62	134	347519	9.39 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D
Acq On : 7 Jan 2011 5:07 am
Sample : CVO01L1122
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 7 5:30 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

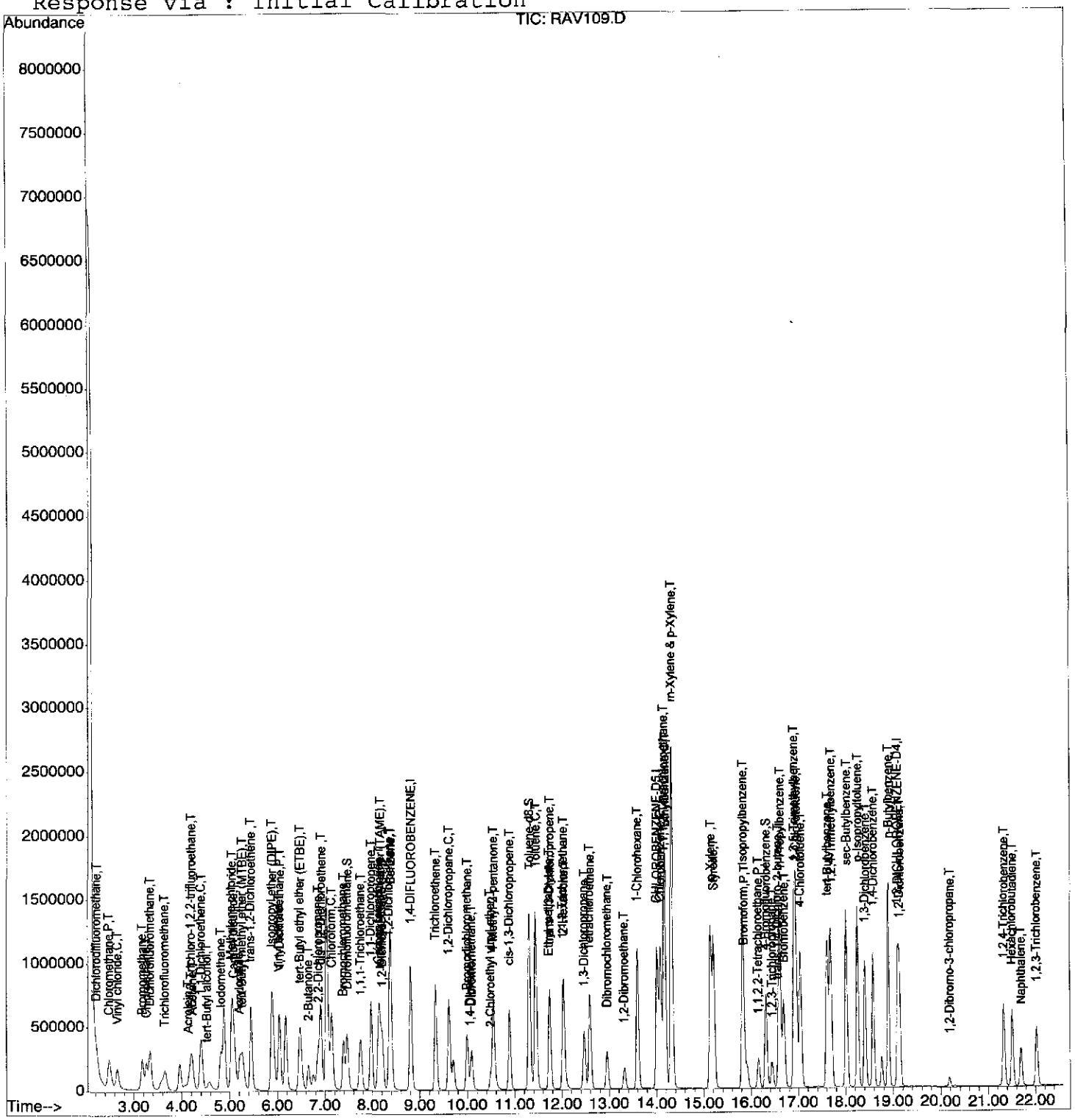
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	1559771	9.69 ug/l	99
86) sec-Butylbenzene	18.02	105	2063347	9.09 ug/l	99
87) p-Isopropyltoluene	18.26	119	1591508	9.19 ug/l	99
88) 1,3-Dichlorobenzene	18.42	146	817957	9.36 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	798457	9.51 ug/l	99
90) n-Butylbenzene	18.91	91	1635799	9.01 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	680857	9.59 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.19	157	37122	8.82 ug/l	99
93) 1,2,4-Trichlorobenzene	21.33	180	410211	9.49 ug/l	99
94) Hexachlorobutadiene	21.51	225	240583	8.72 ug/l	99
95) Naphthalene	21.70	128	491269	9.82 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	316111	9.15 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A06\RAV109.D Vial: 3
Acq On : 7 Jan 2011 5:07 am Operator: MW
Sample : CVO01L1122 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Jan 7 5:30 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



2307A

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RAV204
Instrument ID: TQ01
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11A027
BFB Injection Date : 01/11/11
BFB Injection Time : 10:21
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.33
75	30.0 - 60.0% of mass 95	46.61
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	73.61
175	5.0 - 9.0% of mass 174	5.29(7.2)1
176	95.0 - 101.0% of mass 174	71.73(97.4)1
177	5.0 - 9.0% of mass 176	4.52(6.3)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1124	RAV205	01/11/11	10:54
2	MBLK5W	V001A12B	RAV209	01/11/11	13:12
3	LCS5W	V001A12L	RAV206	01/11/11	11:33
4	LCD5W	V001A12C	RAV207	01/11/11	12:05
5	SSI-GW-008	A027-08N	RAV210	01/11/11	13:43
6	SSI-GW-008MS	A027-08G	RAV211	01/11/11	14:16
7	SSI-GW-008MSD	A027-08H	RAV212	01/11/11	14:49

FORM V VOA OLM02.0

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11A027
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1359668	8.79	1185115	14.00	415479	19.09
2	MBLK5W	1389333	8.79	1210015	14.00	405564	19.09
3	LCS5W	1374899	8.79	1197277	14.00	413278	19.09
4	LCD5W	1373164	8.80	1207598	14.00	425183	19.09
5	SSI-GW-008	1318643	8.80	1150854	14.00	388981	19.09
6	SSI-GW-008MS	1312380	8.80	1141372	14.00	398012	19.09
7	SSI-GW-008MSD	1279978	8.79	1115847	14.00	401143	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

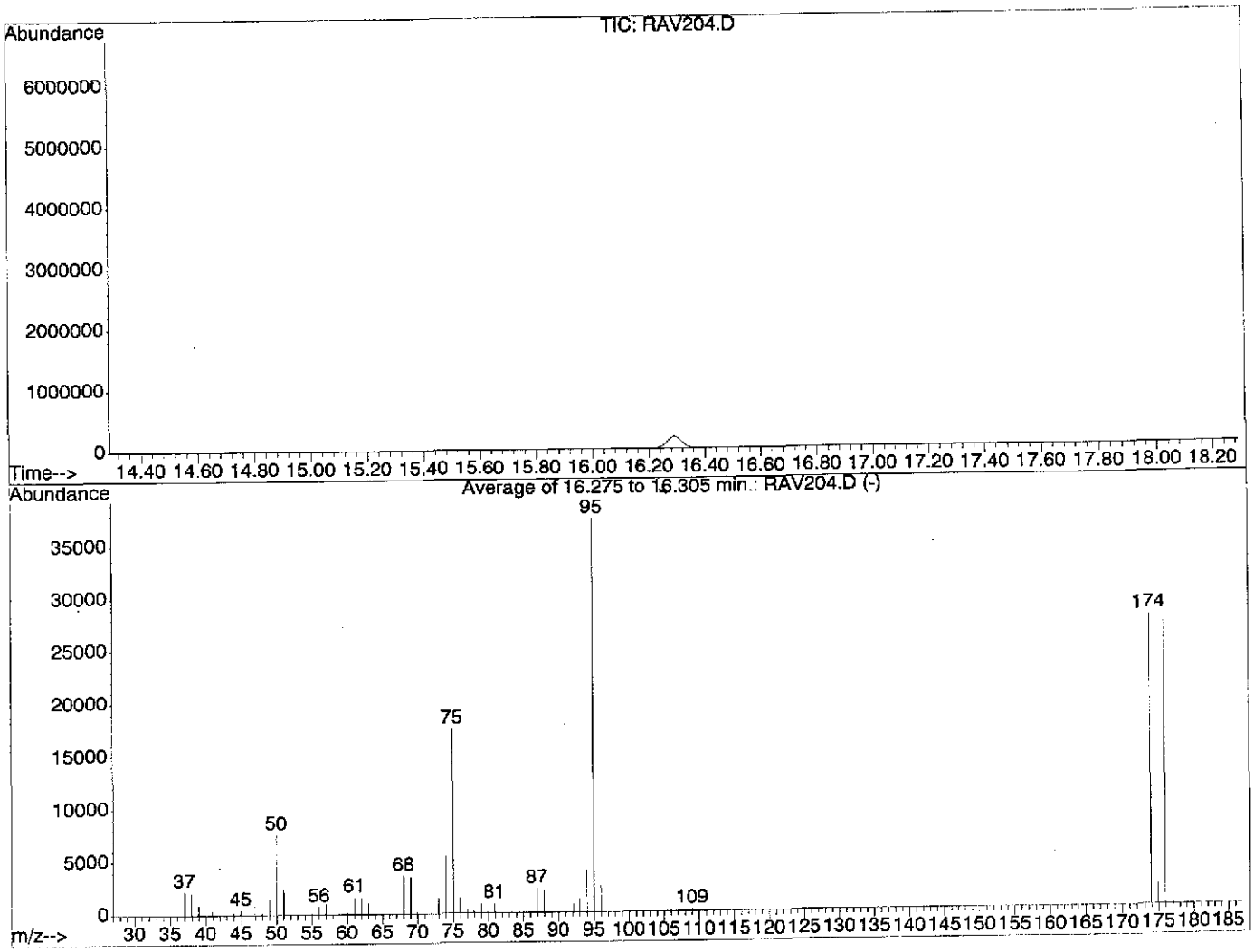
Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

FORM VIII VOA-8260 1/2000

BFB

Data File : D:\HPCHEM\1\DATA\11A11\RAV204.D
Acq On : 11 Jan 2011 10:21 am
Sample : BFB01A12
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 955

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.3	7616	PASS
75	95	30	60	46.6	17460	PASS
95	95	100	100	100.0	37458	PASS
96	95	5	9	6.7	2521	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	73.6	27571	PASS
175	174	5	9	7.2	1981	PASS
176	174	95	101	97.4	26867	PASS
177	176	5	9	6.3	1693	PASS

RAV204.D VO01L11.M Tue Jan 11 12:42:27 2011

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	94	-0.03
2	T	Dichlorodifluoromethane	10.000	11.720	-17.2	102	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	92	-0.01
4	P,T	Chloromethane	10.000	12.042	-20.4#	106	-0.01
5	C,T	Vinyl chloride	10.000	11.745	-17.4	117	-0.01
6	T	Bromomethane	10.000	12.391	-23.9#	107	-0.01
7	T	Chloroethane	10.000	11.486	-14.9	102	0.00
8	T	Dichlorofluoromethane	10.000	10.256	-2.6	94	-0.01
9	T	Trichlorofluoromethane	10.000	9.822	1.8	88	-0.01
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	90	-0.01
11	T	Acrolein	50.000	33.987	32.0#	62	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.468	-4.7	94	-0.01
13	T	Acetone	50.000	47.795	4.4	89	-0.01
14	C,T	1,1-Dichloroethene	10.000	10.193	-1.9	94	0.00
15	T	tert-Butyl alcohol	50.000	41.716	16.6	81	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	9.296	7.0	84	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	95	-0.01
19	T	Methylene chloride	10.000	9.452	5.5	92	-0.01
20	T	Carbon disulfide	10.000	8.815	11.9	74	0.00
21	T	Acrylonitrile	50.000	51.513	-3.0	96	-0.01
22	T	tert-Butyl methyl ether (MT	10.000	9.631	3.7	88	-0.01
23	T	trans-1,2-Dichloroethene	10.000	10.230	-2.3	95	-0.01
24	T	Isopropyl ether (DIPE)	10.000	10.314	-3.1	94	-0.01
25	T	Vinyl acetate	10.000	8.680	13.2	78	-0.01
26	P,T	1,1-Dichloroethane	10.000	10.427	-4.3	95	-0.01
27	T	2-Butanol	-1.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	10.000	9.746	2.5	88	-0.01
29	T	2-Butanone	50.000	50.719	-1.4	96	-0.01
30	T	2,2-Dichloropropane	10.000	10.729	-7.3	100	-0.01
31	T	cis-1,2-Dichloroethene	10.000	10.341	-3.4	94	-0.03
32	C,T	Chloroform	10.000	10.433	-4.3	96	-0.01
33	T	Bromochloromethane	10.000	10.288	-2.9	92	-0.01
34	S	Dibromofluoromethane	10.000	9.682	3.2	86	-0.03
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	10.528	-5.3	97	-0.03
37	T	Cyclohexane	-1.000	0.000	0.0	92	-0.03
38	T	1-Butanol	-1.000	0.000	0.0	88	-0.03
39	T	tert-Amyl methyl ether (TAM	10.000	10.038	-0.4	90	-0.03
40	S	1,2-Dichloroethane-d4	10.000	9.754	2.5	87	-0.01
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~95~~	~~0.03~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	10.175	-1.8	96	-0.01
43	T	Carbon tetrachloride	10.000	10.390	-3.9	98	-0.03
44	T	1,2-Dichloroethane	10.000	10.246	-2.5	94	-0.03
45	T	Benzene	10.000	10.485	-4.8	98	-0.01
46	T	Trichloroethene	10.000	10.545	-5.4	96	-0.01
47	T	Methylcyclohexane	-1.000	0.000	0.0	80	-0.01
48	C,T	1,2-Dichloropropane	10.000	10.593	-5.9	98	-0.01
49	T	1,4-Dioxane	200.000	176.486	11.8	85	-0.03
50	T	Bromodichloromethane	10.000	10.296	-3.0	94	-0.03
51	T	Dibromomethane	10.000	9.677	3.2	89	-0.03
52	T	2-Chloroethyl vinyl ether	10.000	9.296	7.0	87	-0.01
53	T	4-Methyl-2-pentanone	50.000	50.086	-0.2	95	-0.01
54	T	cis-1,3-Dichloropropene	10.000	10.573	-5.7	97	-0.01
55	S	Toluene-d8	10.000	9.964	0.4	91	-0.03
56	C,T	Toluene	10.000	10.615	-6.2	99	-0.03
57	T	Ethyl methacrylate	10.000	10.181	-1.8	92	-0.01
58	T	trans-1,3-Dichloropropene	10.000	10.486	-4.9	96	-0.01
59	T	2-Hexanone	50.000	50.127	-0.3	95	-0.01
60	T	1,1,2-Trichloroethane	10.000	10.572	-5.7	97	-0.03
61	T	1,3-Dichloropropane	10.000	10.452	-4.5	96	-0.01
62	T	Tetrachloroethene	10.000	10.420	-4.2	97	-0.03
63	T	Dibromochloromethane	10.000	10.307	-3.1	93	-0.03
64	T	1,2-Dibromoethane	10.000	9.892	1.1	90	-0.03
65	T	1-Chlorohexane	10.000	10.546	-5.5	97	-0.03
66	P	Chlorobenzene	10.000	10.772	-7.7	99	-0.01
67	T	1,1,1,2-Tetrachloroethane	10.000	10.564	-5.6	97	-0.03
68	C,T	Ethylbenzene	10.000	10.584	-5.8	100	-0.03
69	T	m-Xylene & p-Xylene	20.000	21.420	-7.1	100	-0.01
70	T	o-Xylene	10.000	10.802	-8.0	98	-0.03
71	T	Styrene	10.000	10.931	-9.3	97	-0.03
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	92	-0.01
73	T	Isopropylbenzene	10.000	11.164	-11.6	100	-0.01
74	P,T	Bromoform	10.000	10.369	-3.7	90	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	10.000	10.265	-2.7	93	-0.01
76	S	4-Bromofluorobenzene	10.000	10.546	-5.5	91	-0.03
77	T	1,2,3-Trichloropropane	10.000	9.804	2.0	95	-0.03
78	T	trans-1,4-Dichloro-2-butene	10.000	10.903	-9.0	96	-0.03
79	T	n-Propylbenzene	10.000	11.095	-11.0	99	-0.03
80	T	Bromobenzene	10.000	10.587	-5.9	95	-0.03
81	T	1,3,5-Trimethylbenzene	10.000	11.166	-11.7	100	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	11.571	-15.7	107	-0.03
83	T	4-Chlorotoluene	10.000	10.400	-4.0	90	-0.03
84	T	tert-Butylbenzene	10.000	11.457	-14.6	103	-0.03
85	T	1,2,4-Trimethylbenzene	10.000	11.034	-10.3	97	-0.03
86	T	sec-Butylbenzene	10.000	11.198	-12.0	101	-0.01
87	T	p-Isopropyltoluene	10.000	11.036	-10.4	97	-0.01
88	T	1,3-Dichlorobenzene	10.000	10.941	-9.4	97	-0.03
89	T	1,4-Dichlorobenzene	10.000	10.993	-9.9	98	-0.01
90	T	n-Butylbenzene	10.000	11.029	-10.3	98	-0.03
91	T	1,2-Dichlorobenzene	10.000	10.913	-9.1	97	-0.01
92	T	1,2-Dibromo-3-chloropropane	10.000	10.145	-1.4	90	-0.01
93	T	1,2,4-Trichlorobenzene	10.000	10.576	-5.8	95	-0.01
94	T	Hexachlorobutadiene	10.000	10.638	-6.4	94	-0.03
95	T	Naphthalene	10.000	11.166	-11.7	104	-0.03
96	T	1,2,3-Trichlorobenzene	10.000	10.120	-1.2	93	-0.03

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	94	-0.03
2	T	Dichlorodifluoromethane	0.175	0.205	-17.1	102	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	92	-0.01
4	P,T	Chloromethane	0.342	0.412	-20.5#	106	-0.01
5	C,T	Vinyl chloride	0.292	0.343	-17.5	117	-0.01
6	T	Bromomethane	0.217	0.269	-24.0#	107	-0.01
7	T	Chloroethane	0.227	0.260	-14.5	102	0.00
8	T	Dichlorofluoromethane	0.586	0.601	-2.6	94	-0.01
9	T	Trichlorofluoromethane	0.332	0.327	1.5	88	-0.01
10	T	sec-Propyl alcohol	0.000	0.000	0.0	90	-0.01
11	T	Acrolein	0.016	0.011	31.3#	62	-0.01
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.167	-5.0	94	-0.01
13	T	Acetone	0.039	0.038	2.6	89	-0.01
14	C,T	1,1-Dichloroethene	0.460	0.469	-2.0	94	0.00
15	T	tert-Butyl alcohol	0.015	0.012	20.0	81	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.451	7.0	84	0.00
18	T	Methyl acetate	0.000	0.000	0.0	95	-0.01
19	T	Methylene chloride	0.479	0.453	5.4	92	-0.01
20	T	Carbon disulfide	1.122	1.049	6.5	74	0.00
21	T	Acrylonitrile	0.052	0.054	-3.8	96	-0.01
22	T	tert-Butyl methyl ether (MT	0.455	0.438	3.7	88	-0.01
23	T	trans-1,2-Dichloroethene	0.516	0.528	-2.3	95	-0.01
24	T	Isopropyl ether (DIPE)	1.265	1.305	-3.2	94	-0.01
25	T	Vinyl acetate	0.465	0.403	13.3	78	-0.01
26	P,T	1,1-Dichloroethane	0.632	0.659	-4.3	95	-0.01
27	T	2-Butanol	0.000	0.000	0.0	97	-0.01
28	T	tert-Butyl ethyl ether (ETB	0.753	0.734	2.5	88	-0.01
29	T	2-Butanone	0.074	0.075	-1.4	96	-0.01
30	T	2,2-Dichloropropane	0.381	0.408	-7.1	100	-0.01
31	T	cis-1,2-Dichloroethene	0.370	0.383	-3.5	94	-0.03
32	C,T	Chloroform	0.545	0.569	-4.4	96	-0.01
33	T	Bromochloromethane	0.274	0.281	-2.6	92	-0.01
34	S	Dibromofluoromethane	0.300	0.290	3.3	86	-0.03
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.416	-5.3	97	-0.03
37	T	Cyclohexane	0.000	0.000	0.0	92	-0.03
38	T	1-Butanol	0.000	0.000	0.0	88	-0.03
39	T	tert-Amyl methyl ether (TAM	0.112	0.112	0.0	90	-0.03
40	S	1,2-Dichloroethane-d4	0.234	0.229	2.1	87	-0.01
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	95	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.195	-1.6	96	-0.01
43	T	Carbon tetrachloride	0.378	0.393	-4.0	98	-0.03
44	T	1,2-Dichloroethane	0.335	0.343	-2.4	94	-0.03
45	T	Benzene	1.557	1.632	-4.8	98	-0.01
46	T	Trichloroethene	0.413	0.435	-5.3	96	-0.01
47	T	Methylcyclohexane	0.000	0.000	0.0	80	-0.01
48	C,T	1,2-Dichloropropane	0.430	0.455	-5.8	98	-0.01
49	T	1,4-Dioxane	0.001	0.001	0.0	85	-0.03
50	T	Bromodichloromethane	0.460	0.473	-2.8	94	-0.03
51	T	Dibromomethane	0.164	0.159	3.0	89	-0.03
52	T	2-Chloroethyl vinyl ether	0.106	0.099	6.6	87	-0.01
53	T	4-Methyl-2-pentanone	0.220	0.221	-0.5	95	-0.01
54	T	cis-1,3-Dichloropropene	0.581	0.614	-5.7	97	-0.01
55	S	Toluene-d8	1.303	1.298	0.4	91	-0.03
56	C,T	Toluene	1.591	1.688	-6.1	99	-0.03
57	T	Ethyl methacrylate	0.310	0.316	-1.9	92	-0.01
58	T	trans-1,3-Dichloropropene	0.409	0.429	-4.9	96	-0.01
59	T	2-Hexanone	0.137	0.137	0.0	95	-0.01
60	T	1,1,2-Trichloroethane	0.220	0.232	-5.5	97	-0.03
61	T	1,3-Dichloropropane	0.431	0.451	-4.6	96	-0.01
62	T	Tetrachloroethene	0.311	0.324	-4.2	97	-0.03
63	T	Dibromochloromethane	0.271	0.279	-3.0	93	-0.03
64	T	1,2-Dibromoethane	0.216	0.213	1.4	90	-0.03
65	T	1-Chlorohexane	0.651	0.687	-5.5	97	-0.03
66	P	Chlorobenzene	0.952	1.025	-7.7	99	-0.01
67	T	1,1,1,2-Tetrachloroethane	0.307	0.324	-5.5	97	-0.03
68	C,T	Ethylbenzene	1.813	1.919	-5.8	100	-0.03
69	T	m-Xylene & p-Xylene	1.332	1.427	-7.1	100	-0.01
70	T	o-Xylene	1.301	1.405	-8.0	98	-0.03
71	T	Styrene	0.980	1.071	-9.3	97	-0.03
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	92	-0.01
73	T	Isopropylbenzene	4.392	4.904	-11.7	100	-0.01
74	P,T	Bromoform	0.370	0.384	-3.8	90	-0.03
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.735	-2.7	93	-0.01
76	S	4-Bromofluorobenzene	1.134	1.196	-5.5	91	-0.03
77	T	1,2,3-Trichloropropane	0.180	0.177	1.7	95	-0.03
78	T	trans-1,4-Dichloro-2-butene	0.185	0.202	-9.2	96	-0.03
79	T	n-Propylbenzene	5.832	6.471	-11.0	99	-0.03
80	T	Bromobenzene	0.918	0.972	-5.9	95	-0.03
81	T	1,3,5-Trimethylbenzene	3.456	3.860	-11.7	100	-0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	4.107	-15.7	107	-0.03
83	T	4-Chlorotoluene	3.056	3.178	-4.0	90	-0.03
84	T	tert-Butylbenzene	0.785	0.899	-14.5	103	-0.03
85	T	1,2,4-Trimethylbenzene	3.415	3.768	-10.3	97	-0.03
86	T	sec-Butylbenzene	4.814	5.391	-12.0	101	-0.01
87	T	p-Isopropyltoluene	3.675	4.055	-10.3	97	-0.01
88	T	1,3-Dichlorobenzene	1.854	2.029	-9.4	97	-0.03
89	T	1,4-Dichlorobenzene	1.782	1.959	-9.9	98	-0.01
90	T	n-Butylbenzene	3.853	4.249	-10.3	98	-0.03
91	T	1,2-Dichlorobenzene	1.506	1.644	-9.2	97	-0.01
92	T	1,2-Dibromo-3-chloropropane	0.089	0.091	-2.2	90	-0.01
93	T	1,2,4-Trichlorobenzene	0.916	0.969	-5.8	95	-0.01
94	T	Hexachlorobutadiene	0.585	0.622	-6.3	94	-0.03
95	T	Naphthalene	1.061	1.185	-11.7	104	-0.03
96	T	1,2,3-Trichlorobenzene	0.733	0.742	-1.2	93	-0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:17 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1359668	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	14.00	117	1185115	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	415479	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	394440	9.68	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	96.80%	
40) 1,2-Dichloroethane-d4	8.20	65	310767	9.75	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.50%	
55) Toluene-d8	11.29	98	1538093	9.96	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.60%	
76) 4-Bromofluorobenzene	16.29	95	496861	10.55	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	105.50%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	278788	11.72	ug/l	98
4) Chloromethane	2.47	50	559935	12.04	ug/l	99
5) Vinyl chloride	2.65	62	466334	11.75	ug/l	99
6) Bromomethane	3.16	94	365829	12.39	ug/l	99
7) Chloroethane	3.25	64	353947	11.49	ug/l	99
8) Dichlorofluoromethane	3.33	67	816813	10.26	ug/l	99
9) Trichlorofluoromethane	3.62	101	444050	9.82	ug/l	99
11) Acrolein	4.13	56	74463	33.99	ug/l #	56
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	226685	10.47	ug/l	98
13) Acetone	4.22	43	256357	47.79	ug/l	96
14) 1,1-Dichloroethene	4.39	61	637902	10.19	ug/l	99
15) tert-Butyl alcohol	4.53	59	83193	41.72	ug/l	96
17) Iodomethane	4.81	142	612974	9.30	ug/l	100
19) Methylene chloride	5.03	49	615488	9.45	ug/l	98
20) Carbon disulfide	5.07	76	1426275	8.82	ug/l	100
21) Acrylonitrile	5.19	53	365712	51.51	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	595437	9.63	ug/l	100
23) trans-1,2-Dichloroethene	5.43	61	717374	10.23	ug/l	99
24) Isopropyl ether (DIPE)	5.87	45	1774189	10.31	ug/l	100
25) Vinyl acetate	6.02	43	548227	8.68	ug/l	98
26) 1,1-Dichloroethane	6.04	63	895692	10.43	ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	998266	9.75	ug/l	99
29) 2-Butanone	6.63	43	509394	50.72	ug/l	99
30) 2,2-Dichloropropane	6.83	77	555204	10.73	ug/l	99
31) cis-1,2-Dichloroethene	6.89	96	520831	10.34	ug/l	98
32) Chloroform	7.13	83	773370	10.43	ug/l	99
33) Bromochloromethane	7.37	49	382690	10.29	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:17 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.72	97	565833	10.53 ug/l	98
39) tert-Amyl methyl ether (TA	8.14	87	152439	10.04 ug/l	100
42) 1,1-Dichloropropene	7.96	110	231596	10.17 ug/l	99
43) Carbon tetrachloride	8.11	119	465711	10.39 ug/l	98
44) 1,2-Dichloroethane	8.33	62	407032	10.25 ug/l	100
45) Benzene	8.37	78	1934515	10.48 ug/l	99
46) Trichloroethene	9.32	130	515869	10.54 ug/l	100
48) 1,2-Dichloropropane	9.60	63	539299	10.59 ug/l	96
49) 1,4-Dioxane	10.03	88	28390	176.49 ug/l	96
50) Bromodichloromethane	9.97	83	560978	10.30 ug/l	98
51) Dibromomethane	10.06	93	188549	9.68 ug/l	99
52) 2-Chloroethyl vinyl ether	10.47	63	117280	9.30 ug/l	99
53) 4-Methyl-2-pentanone	10.53	43	1307095	50.09 ug/l	99
54) cis-1,3-Dichloropropene	10.87	75	727943	10.57 ug/l	99
56) Toluene	11.42	91	2000925	10.62 ug/l	100
57) Ethyl methacrylate	11.72	69	373994	10.18 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	508597	10.49 ug/l	98
59) 2-Hexanone	12.03	43	814353	50.13 ug/l	99
60) 1,1,2-Trichloroethane	12.00	97	275262	10.57 ug/l	99
61) 1,3-Dichloropropane	12.46	76	534393	10.45 ug/l	99
62) Tetrachloroethene	12.58	164	383672	10.42 ug/l	99
63) Dibromochloromethane	12.93	129	330508	10.31 ug/l	99
64) 1,2-Dibromoethane	13.30	107	252958	9.89 ug/l	99
65) 1-Chlorohexane	13.58	91	813846	10.55 ug/l	100
66) Chlorobenzene	14.07	112	1215210	10.77 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.14	131	383798	10.56 ug/l	98
68) Ethylbenzene	14.16	91	2274257	10.58 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	3381672	21.42 ug/l	100
70) o-Xylene	15.12	91	1664990	10.80 ug/l	99
71) Styrene	15.19	104	1269696	10.93 ug/l	99
73) Isopropylbenzene	15.82	105	2037315	11.16 ug/l	99
74) Bromoform	15.85	173	159388	10.37 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.14	83	305401	10.27 ug/l	99
77) 1,2,3-Trichloropropane	16.42	110	73404	9.80 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.56	53	83737	10.90 ug/l	99
79) n-Propylbenzene	16.58	91	2688366	11.10 ug/l	99
80) Bromobenzene	16.67	156	403968	10.59 ug/l	99
81) 1,3,5-Trimethylbenzene	16.90	105	1603569	11.17 ug/l	99
82) 2-Chlorotoluene	16.93	91	1706349	11.57 ug/l	97
83) 4-Chlorotoluene	17.03	91	1320496	10.40 ug/l	94
84) tert-Butylbenzene	17.59	134	373699	11.46 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CV001L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:17 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1565556	11.03 ug/l	97
86) sec-Butylbenzene	18.01	105	2239969	11.20 ug/l	99
87) p-Isopropyltoluene	18.24	119	1684929	11.04 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	843021	10.94 ug/l	99
89) 1,4-Dichlorobenzene	18.57	146	813837	10.99 ug/l	100
90) n-Butylbenzene	18.88	91	1765521	11.03 ug/l	99
91) 1,2-Dichlorobenzene	19.13	146	683044	10.91 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.18	157	37631	10.14 ug/l	99
93) 1,2,4-Trichlorobenzene	21.32	180	402723	10.58 ug/l	98
94) Hexachlorobutadiene	21.50	225	258607	10.64 ug/l	98
95) Naphthalene	21.67	128	492179	11.17 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	308123	10.12 ug/l	99

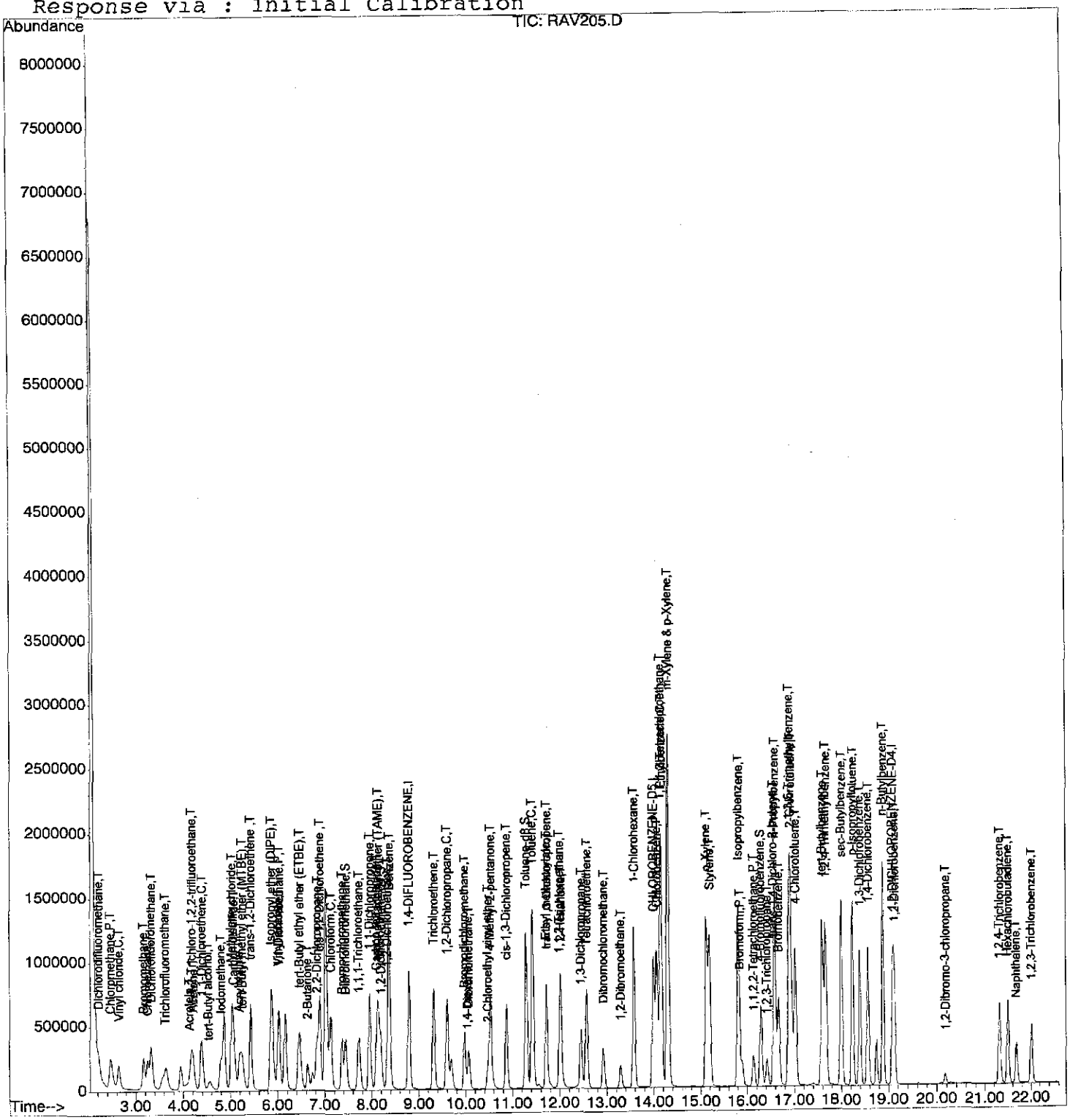
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11A11\RAV205.D
Acq On : 11 Jan 2011 10:54 am
Sample : CVO01L1124
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Jan 11 11:17 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



2320

ANALYTICAL LOGS

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. ~~8~~ 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No. 0 ☐

Start Date: 12/11/10 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH V001L1106

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount *	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RLV327	BFB01L15	2 ul	NA	NA	NA	NA	0.915 AM ~~GAS 8260 KET/MA/FBA~~
02	328	V001L111	0.03/0.03/0.15/0.15 ul					0.3 / 1.5 ppb
03	329	2	0.05/0.05/0.25/0.25 ul					0.5 / 2.5 ppb
04	330	3	0.1/0.1/0.5/0.5 ul					1 / 5 ppb
05	331	4	0.2/0.2 ul					2 / 10 ppb
06	332	5	0.5/0.5/2.5/2.5 ul					5 / 25 ppb
07	333	6	1/1/5/5 ul					10 / 50 ppb
08	334	7	2/2/10/10 ul					20 / 100 ppb
09	335	8	3/3/15/15 ul					30 / 150 ppb
10	336	9	4/4/20/20 ul					40 / 200 ppb IS Low
11	337	10	5/5/25/25 ul					50 / 250 ppb
12	338	11	10/10/50/50 ul					100 / 250 ppb
13	339	IS/SS	25 ml					
14	340	V001L1681	25 ml					
15	341	IV001L1101	1/1/5/5 ul					5:01 PM 10/50 ppb
16	342	RINSE	25 ml					
17	343	RINSE	25 ml					
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								CR 12/13/10
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	12/11/10
ICAL ID	V001L11

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC GASES 8260	SV1-16-66-3 -57-1	*	
DCC CS_2	-63-1		
DCC KET/MA	-65-2		50/250
BFB	-26-2		
IS/SURR.	-64-3		
ICV/LCS GASES CS_2	-64-1 -72-3		
ICV/LCS 8260	-73-2		
ICV/LCS KET/MA	-62-2		

SOLVENT	ID
METHANOL	IS SV1-16-72-1 SS SV1-16-72-2
DATA FILE	10L11

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: CR

Disposed By: 12/13/10

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ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 5 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 11/1/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH W001L119

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01		NA VOA3	BR01A03	2 L					7:34am
02		11	CW001L119	11 mL					
03		11	W001A03L						
04		11	C						
05		11	NCAIE	5 mL					
06		11	W01A03B						
07		11	MDL1	0.4/1.1 L	N/A				0.2/0.2/1.0 ppb Pb0
08		11	2	0.3/1.2 L					0.3/0.3/2.0 ppb
09		11	3	0.5/1.4 L					0.5/0.5/5.0 ppb
10		11	4	1.0/1.5 L					1.0/1.0/5.0 ppb
11		11	5	2.0/1.1 L					2.0/2.0/10 ppb
12		11	6	4.0/1.2 L					4.0/4.0/10 ppb
13		11	10(A02)-01	5 mL	1.0	/	/		
14		11	11(A02)-07	0.5 mL	10	/	/		1X
15		11	11(A02)-02	5 mL	1.0	/	/		10X
16		11	-03			/	/		1X/10X 40
17		11	-04			/	/		1X/10X 40
18		60	-05			/	/		1X 40
19		61	-06			/	/		10X
20		62	-07			/	/		
21		63	-08			/			5 µL 40
22		64	-09			/			
23		65	MBLK						7:29am
24									
25									
26									
27									
28									
29									
30									

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	11/1/10
ICAL ID	W001C11

STANDARDS

NAME	ID	Amount (uL)	Conc. (mg/L)
DCC	5476-66-3	1	
DCC	-67-1	1	
DCC	-65-2	5	
BFB	-26-2	2	25 ppb
IS/SURR.	-69-3	1	
ICV/LCS	-69-1	1	
ICV/LCS	-70-2	5	
ICV/LCS	-62-2	5	
SOLVENT	ID		
METHANOL	MM11/6/11		
DATA FILE	10 11A 05		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: MM

Date Disposed: 11/6/11

Disposed By:

2323

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 5 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 11/11/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH CW001L1120

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	MA0116	BF801A01	2-L					1-03 AM
02	11	CW001L1120	1LIT-L					
03	68	W001A01L						
04	69	C						
05	70	NINE	25ML					
06	71	W001A01B						
07	72	11A017-09		1.0	/	/		-25X
08	73	-10			/	/		-25X
09	74	-11			/	/		-10X
10	75	-12			/	/		-10X
11	76	-13			/	/		-1X 60
12	77	-14			/	/		-1X 60
13	78	-01			/	/		-10X
14	79	11A016-01			/	/		-100X 1X 60
15	80	-02			/	/		-1X 60
16	81	-03			/	/		-20X 1X 60
17	82	-04			/	/		1X 60
18	83	-05			/	/		11/16/11 5:11AM
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	11/11/10
ICAL ID	W001L1

STANDARDS

NAME	ID	Amount (µL)	Conc. (mg/L)
DCC	SM76-66-3	1	
DCC	-67-1	5	
DCC	-65-L	5	
BFB	-26-1	2	
IS/SURR.	-64-3	1	
ICV/LCS	-64-1	1	
ICV/LCS	-41-2	5	
ICV/LCS	-62-L	5	

SOLVENT	ID
METHANOL	
DATA FILE	11A0

Electronic Data Archival

Location	Date
HPCHEM_VOA/T001	

Comments:

Analyzed By: MH 11/16/11

Date Disposed:

Disposed By:

23321

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 5 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 1/4/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH CW011114

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	1A0101	BRV01A01	2.0					3=29 µm
02	02	CW011121	40					
03	03	W01A01L						
04	04							
05	05							
06	06	NLAF	25mL					
07	07	W01A01B						
08	08	W11A01L-01R		1.0				
09	09	-11R						
10	10	-12R						
11	11	-01R						1 S.Scat, RR with 11, S
12	12	-01H						
13	13	-01V						
14	14	-017	21mL	10				
15	15	-017	21mL	10				
16	16	-017	21mL	10				
17	17	-017						
18	18	-01R	25mL	1.0				
19	19	-01						
20	20	NLAF						
21	21	W11A01L-01R		1.0				
22	22	-01R						1/7/11 2:17 am
23	23	NLAF						
24	24							
25								
26								
27								
28								
29								
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	1/4/10
ICAL ID	W01L41

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC	M76-66-3	1	
DCC	-67	1	
DCC	-67	1	
BFB	-16-2	2	
IS/SURR.	-69-3	1	1/4/4
ICV/LCS	-69-1	1	
ICV/LCS	-70-2	1	
ICV/LCS	-62-2	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11A06		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T001	

Comments:

Analyzed By: [illegible]

Date Disposed: 1/7/11

Disposed By: [illegible]

1/6/11

2325

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 5 (eff 1/1/11) ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 1/7/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH CW01/1/11

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	11406	BFB01406	2.L					9:37AM
02	104	CW01L1122	1ml/L					
03	105	W01406L	↓					
04	106	↓ C	↓					
05	107	NCAF	2mL					
06	108	W01406B	↓	1mL/1/11				
07	109	11406 .067	~~2.5mL~~	~~10~~				
08	110	-097	1.25mL	2				
09	111	-107	↓	↓				
10	112	-117	2.5mL	10				
11	113	-127	↓	↓				10:07AM
12								
13								
14								
15								
16								
17								
18								
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26								
27								
28								
29								
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	1/1/11
ICAL ID	W01L1

STANDARDS

NAME	ID	Amount (µL)	Conc. (mg/L)
DCC	SL-76-100-3	1	
DCC	-61-1	1	
DCC	-61-2	1	
BFB	-26-2	2	
IS/SURR.	-61-3	1	10/20
ICV/LCS	-61-1	1	
ICV/LCS	-61-2	1	
ICV/LCS	-61-L	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11406		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: MW

Date Disposed: 1/7/11

Disposed By: MW

2326

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 1/11/11 ☐ 5-ml Purge ☐ 25-ml Purge

Book # A01 -035

BATCH CW001/1124

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	NAV204	BFB01H7L	2.2					10:24AM
02	205	CW001L1124	WFF.L					
03	206	W01H1LL						
04	207	C						
05	208	NONE	25mL					
06	209	W01H1LB						
07	210	11H02L-01N		1.0	/			
08	211	-01G			/			
09	212	-01H			/			
10	213	NONE						
11	214	11H02L-04R			/			
12	215	-03R			/			
13	216	-10R			/			
14	217	-11			/	/		
15	218	-06R			/			
16	219	-03Y			/			
17	220	-03V			/			
18	221	-10Y			/			
19	222	-10V			/			
20	223	-05T	2.5mL	10	/			
21	224	-05R	25mL	1.0	/			
22	225	-02			/			PX 9:48AM
23	226	NONE						
24	227							
25								
26								
27								
28								
29								
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	12/11/10
ICAL ID	W001L11

STANDARDS

NAME	ID	Amount (µL)	Conc. (mg/L)
DCC	SV1-16-68-3	1	
DCC	-67-1	1	
DCC	-65-1	5	
BFB	-16-1	2	
IS/SURR.	-68-3	1	
ICV/LCS	-68-1	1	
ICV/LCS	-71-3	1	
ICV/LCS	-62-1	5	
SOLVENT	ID		
METHANOL			
DATA FILE	11H11		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T001	

Comments:

Analyzed By: MH

Date Disposed: 1/12/11

Disposed By: MH

2327

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG *for* VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln. *	2500 ppm	200 uL ~~[illegible]~~	250 ppm
SV1-12-24-5	ultra VOC Gas Mix	2000 ppm	250 uL ~~[illegible]~~	↓
			ETL	11/12/10

Standard ID	SV1-16-66 -1
Name	Gases 1°
Final Volume	~~[illegible]~~ 2 mL ETL 11-12-10
Solvent /Lot #	SWIA-04-138
Prep. Date	11-12-10
Exp. Date	1/27/2011 *
Prepared By	ETL

Comments

* expiration 1/27/2011

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln *	2500 ppm	200 uL	250 ppm
SV1-12-24-5	ultra VOC Gas Mix	2000 ppm	250 uL	↓
			ETL	11/12/10

Standard ID	SV1-16-66 -2
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SWIA-04-138
Prep. Date	11-12-10
Exp. Date	1/27/2011
Prepared By	ETL

Comments

* expiratio 1/27/2011

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln *	2500 ppm	200 uL	250 ppm
SV1-12-24-5	ultra VOC Gas Mix	2000 ppm	250 uL	↓
			ETL	11/12/10

Standard ID	SV1-16-66 -3
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SWIA-04-138
Prep. Date	11/12/10
Exp. Date	1/27/2011
Prepared By	ETL

Comments

* expiration 1/27/2011

EMAX LABORATORIES, INC.

STANDARDS LOG *for* VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-22-19	1-Chlorohexane	2000	250	50
-23-9	2-CEVE	2000	250	50
-22-20	O.G.A.S.	2000/10,000	250	50/250
-23-5	Custom VOA Mix	2K/20K/40K	250	50/500/1000
				CGM 10/26/10

Standard ID	SV1-16-57 -1
Name	8260 1°
Final Volume	10 ML
Solvent /Lot #	SW1A-04-274
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/28/10
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-22-19	1-Chlorohexane	2000	250	50
-23-9	2CEVE	2000	250	50
-22-20	O.G.A.S.	2000/10,000	250	50/250
-23-5	Custom VOA Mix	2K/20K/40K	250	50/500/1000
				CGM 10/26/10

Standard ID	SV1-16-57 -2
Name	8260 1°
Final Volume	10 ML
Solvent /Lot #	SW1A-04-234
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/28/10
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-335	1-Chlorohexane	1000	500	50
-22-18	2-CEVE	2000	250	50
-86	chloroprene	5000	100	50
-21-10	Halofomin Oxygenate Mix	2000	250	50/250
-257	Custom 8260 Mega Mix	2000	250	50/500/1000
				CGM 10/26/10

Standard ID	SV1-16-57 -3 CGM 10/26/10
Name	8260 2°
Final Volume	10 ML
Solvent /Lot #	SW1A-04-274
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/28/10
Prepared By	CGM

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-8	CPI, Z-02202-04 Carbon Disulfide Solution	5000 ppm	500 µl	250 ppm
				AS 11/2/10

Standard ID	SV1-16-63 -1
Name	CS_2 1°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/02/10
Exp. Date	5/02/11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-8	CPI, Z-02202-04 Carbon Disulfide Solution	5000 ppm	500 µl	250 ppm
				AS 11/2/10

Standard ID	SV1-16-63 -2
Name	CS_2 1°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/02/10
Exp. Date	5/02/11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	8260A Surr Mix	2500 ppm	1.0 mL	2.5 ppm
				CGM 11/3/10

Standard ID	SV1-16-63 -3
Name	SURR SPIKE
Final Volume	1000 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/3/10
Exp. Date	5/3/11
Prepared By	CGM

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-1	Acetone-methanol-DW-IX app. IX vol. mix Lot # 30233 chloroform	2000 µg 1000 ppm	250 µL	250 ppm
↓ -363		5000 ppm	100 µL	↓
		MW 11/10/10		

Standard ID	SV1-16- 107 -1
Name	app. IX 1°
Final Volume	2 mL
Solvent /Lot #	MeOH-04-234
Prep. Date	11/10/10
Exp. Date	3/9/11*
Prepared By	MW

Comments * exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV-12-23-11	Lot # 30006 vol. cal. mix 1	5000 ppm	500 µL	250 ppm
↓ -18	Acetone M-6073-M-IX acrolein/acrylonitrile	↓	↓	↓
		MW 11/10/10		

Standard ID	SV1-16- 107 -2
Name	KTM MA 1°
Final Volume	10 mL
Solvent /Lot #	MeOH-04-234
Prep. Date	11/10/10
Exp. Date	3/21/11*
Prepared By	MW

Comments * exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV-12-23-11	vol. cal mix 1	5000 ppm	500 µL	250 ppm
↓ -18	acrolein/acrylonitrile	↓	↓	↓
		MW 11/10/10		

Standard ID	SV1-16- 107 -3
Name	KTM MA 1°
Final Volume	10 mL
Solvent /Lot #	MeOH-04-234
Prep. Date	11/10/10
Exp. Date	3/21/11*
Prepared By	MW

Comments * exp. date

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-356	Methanol - Alltech-16 vol. mix 6	10ppm	1.5mL	250ppm
↓ -341	Methyl Acetate Supelco #3026	↓	↓	↓
		MW 8/6/10		

Standard ID	SV1-16- 26-1
Name	Gases 2°
Final Volume	10mL
Solvent /Lot #	SWA-04-206
Prep. Date	8/6/10
Exp. Date	2/6/11
Prepared By	MW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-340	Restek VOA Tuning Cmpd mix	5000ppm	500mL	50ppm
				sd 8/11/10

Standard ID	SV1-16- 26-2
Name	4-Br fb
Final Volume	50mL
Solvent /Lot #	SWA-04-206
Prep. Date	8/11/10
Exp. Date	2/11/11 8/10/10
Prepared By	sd

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-372	Carbon Disulfide	5000ppm	500µL	250ppm
			DM 8/13/10	

Standard ID	SV1-16- 26 -3
Name	CS_2 1°
Final Volume	10mL
Solvent /Lot #	SWA-04-206
Prep. Date	8/13/10
Exp. Date	2/13/11
Prepared By	DM

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-16	Supelco 47999-4 VOA Gas Mix	2000 ppm	1.25 mL	250 ppm
↓ -23-12	Matt 30246 Vinyl Acetate	↓	↓	↓
	MW 11/3/10			

Standard ID	SV1-16- 64 -1
Name	Gases 2°
Final Volume	10 mL
Solvent /Lot #	SWIA-04-L14
Prep. Date	11/3/10
Exp. Date	5/3/11
Prepared By	MW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-6	Ultra Sci VOC Gas Mix	2000 ppm	250 µL	250 ppm
SV1-12-24-2	CPI Vinyl Acetate Std	2500 ppm	200 µL	250 ppm
			ETL 11/03/10	

Standard ID	SV1-16- 64 -2
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SWIA-04-234
Prep. Date	11/03/10
Exp. Date	1/27/11
Prepared By	ETL

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-14	Supelco 47455-U 1000 (µg/mL)	200 ppm	1.0 mL	200 ppm
↓ -13	Matt 30240 Flam Inv. Mix	↓	↓	↓
		MW 11/5/10		

Standard ID	SV1-16- 64 -3
Name	H/S
Final Volume	10 mL
Solvent /Lot #	SWIA-04-L34
Prep. Date	11/5/10
Exp. Date	5/5/11
Prepared By	MW

Comments

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8100	2.5 ppm	1.0 mL	250 ppm
		MW 12/3/10		

Standard ID	SV1-16-72-1
Name	8100 I.S.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NV

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	Mixed 8260 + 8100A Sum Mix	2.5 ppm	1.0 mL	250 ppm
		MW 12/3/10		

Standard ID	SV1-16-72-2
Name	8100 Sr.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	MW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000 ppm	0.5 mL	250 ppm
			DM	12/3/10

Standard ID	SV1-16-72-3
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DM

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000ppm	0.5 ml	250 ppm
			DH 12/3/10	

Standard ID	SV1-16-73 -1
Name	CS_2 2°
Final Volume	10 ml
Solvent /Lot #	CWA-04-230
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DH
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1000ppm	100 ul	10 ppm
-350	2-chloro- *	1k ppm	250 ul	↓
-21-10	cal. oxy. gas	2k-10k ppm		5/50 ppm
-23-11	Custom Hydrocarbon mix	2k-10k ppm	↓	10/100/1000 ppm
		MW 12/3/10		

Standard ID	SV1-16-73 -2
Name	2600 2°
Final Volume	10 ml
Solvent /Lot #	IWA-04-124
Prep. Date	12/3/10
Exp. Date	3/9/11 *
Prepared By	MW
Comments	* exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1k ppm	100 ul	10 ppm
-350	2-chloro- *	2k ppm	250 ul	↓
-21-10	cal. oxy. gas	2k/10k ppm		5/50 ppm
-23-11	Custom Hydrocarbon mix	2k/10k ppm	↓	10/100/1000 ppm
		MW 12/3/10		

Standard ID	SV1-16-73 -3
Name	2600 2°
Final Volume	10 ml
Solvent /Lot #	IWA-04-124
Prep. Date	12/3/10
Exp. Date	3/9/11 *
Prepared By	MW
Comments	* exp. date

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-18	Acrolin + Acrylonitrile	5000ppm	100mL	250ppm
SV1-12-23-11	VOA Cal-Mix	5000ppm	↓	↓

Standard ID	SV1-16- 62 -1
Name	Ket/AA 1°
Final Volume	2ml
Solvent /Lot #	SWIA-04-234
Prep. Date	10/29/10
Exp. Date	3/21/2011
Prepared By	ETL

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-11-23-13	SVM10 4-1949 TCL Cal Mix	2kppm	1.25mL	250ppm
↓ -3	Ultra AMA-623 acrolin/acrylonitrile *	↓	↓	↓
		MM	11/1/10	

Standard ID	SV1-16- 62-2
Name	ICP/AA 2°
Final Volume	10mL
Solvent /Lot #	IN/A-04-234
Prep. Date	11/1/10
Exp. Date	1/31/11*
Prepared By	MW

Comments * exp date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-11	8260 Int. Std Mix	2500ppm	400uL	20ppm
SV1-12-22-13	8260A Surr Mix	2500ppm	400uL	20ppm
			2°	4/29/11

Standard ID	SV1-16- 62 -3
Name	IC/SS
Final Volume	5mL
Solvent /Lot #	SWA-04-234
Prep. Date	10/29/10
Exp. Date	4/29/11
Prepared By	DV

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG *for* VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Carbon disulfide	2.5 mg/mL	1.0 mL	250 ppm

Standard ID	SV1-16-72-1
Name	8260 1.5.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NV

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	Mixed Boron 8260A Sum Mix	2.5 mg/mL	1.0 mL	250 ppm

Standard ID	SV1-16-72-2
Name	8100 SS.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000 ppm	0.5 mL	250 ppm

Standard ID	SV1-16-72-3
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DM

Comments

DATA VALIDATION REPORT

Site:	OPHA Moffett
Contract Task Order (CTO) No.:	004
Laboratory:	EMAX Laboratories, Inc.
Data Reviewer:	Richard Amano, Erlinda Rauto, Stella Cuenco, and Pei Geng.
Firm/Proj. No:	Laboratory Data Consultants, Inc./24888A
Review Date:	February 8, 2011
Sample Delivery Group (SDG) No.:	I1A027

Sample Nos.:				
	SSI-GW-001	SSI-GW-004DL	SSI-GW-009*	SSI-D-001DL
	SSI-GW-001DL	SSI-GW-005	SSI-GW-009DL*	SSI-ER-001
	SSI-GW-002	SSI-GW-006	SSI-GW-010	SSI-SWB-001
	SSI-GW-002DL	SSI-GW-006DL	SSI-GW-010DL	SSI-TB-002
	SSI-GW-003	SSI-GW-007	SSI-GW-011	SSI-GW-008MS
	SSI-GW-003DL	SSI-GW-007DL	SSI-GW-011DL	SSI-GW-008MSD
	SSI-GW-004	SSI-GW-008	SSI-D-001	

* Full Validation Sample

Matrix:	Water
Collection Date(s):	January 3 through January 4, 2011

The data were qualified according to the U.S. Environmental Protection Agency (EPA) documents "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review" (June 2008). In addition, the Tetra Tech EMI, Inc. documents "Data Validation Statement of Work" (April 1, 2010) and "Laboratory Analytical Statement of Work" (September 2006) were used along with other specified criteria in EPA methods. Data validation requirements are presented below.

I certify that all data validation criteria outlined in the above referenced documents were assessed, and any qualifications made to the data were in accordance with those documents.

Stella Cuenco for

Certified by Richard Amano
Principal Chemist

DATA VALIDATION REQUIREMENTS

Full validation includes all parameters listed below. Cursory validation parameters are indicated by an asterisk (*).

CLP Organic Parameters

*	Holding times
	GC/MS instrument performance check
*	Initial and continuing calibrations
*	Blanks
*	Surrogate recovery
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Internal standard performance
	Target compound identification
	Tentatively identified compounds
	Compound quantitation
	Reported detection limits
	System performance
*	Overall assessment of data for the SDG

CLP Inorganic Parameters

*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
	ICP interference check sample
	GFAA quality control
*	ICP serial dilution
	Sample result verification
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

*	Method compliance
*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
*	Surrogate recovery
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

DATA VALIDATION QUALIFIERS AND CODES

Data Validation Qualifiers

UJ Estimated nondetected result

J Estimated detected result

R Rejected result

NJ Tentatively Identified Compound (TIC)

Data Validation Qualifier Codes

a Surrogate recovery exceedance

b Laboratory method blank and common blank contamination

c Calibration exceedance

d Duplicate precision exceedance

e Matrix spike/laboratory control sample (LCS) recovery exceedance

f Field blank contamination

g Quantification below reporting limit

h Holding time exceedance

i Internal standard exceedance

j Other qualifications

TABLE 1
CURSORY DATA VALIDATION SUMMARY

Analysis	Holding Times	Surrogates	MS/MSD	Matrix Duplicates	LCS	Blanks	Calibrations	Internal Standards	Field Duplicates	Other
VOA	√	√	√	N/A	pg. 6	√	√	√	pg. 7	pg. 7

Notes:
√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.
N/A indicates the parameter is not applicable to an analysis.
If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.
The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers are described in the text.

TABLE 2
FULL DATA VALIDATION SUMMARY
Sample(s) SSI-GW-009* and SSI-GW-009DL*

Analysis	GC/MS Tuning	Target Compound List Identification	Compound or Analyte Quantification	Reported Detection Limits	Tentatively Identified Compounds	System Performance	Interference Check Sample	Graphite Furnace Quality Control
VOA	√	√	pg. 7	√	N/A	√	N/A	N/A

Notes:
√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.
N/A indicates the parameter is not applicable to an analysis.
If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.
The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers found are described below.

DATA ASSESSMENT

VOLATILE ORGANIC ANALYSIS (EPA SW 846 Method 8260B)

I. Holding Times

A. All criteria were met.

II. Surrogate Recovery

A. All criteria were met.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. All criteria were met.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. Due to precision problems in the LCS/LCSD analysis, the following nondetected results are qualified as estimated (UJd).

- Carbon disulfide in samples SSI-GW-002 SSI-GW-007DL SSI-TB-002

The following compounds had relative percent differences (RPD) outside the QC limits.

LCS/LCSD ID	Compound	RPD	QC Limits
LCS1/D1	Carbon disulfide	32	≤30

V. Blank Contamination

A. All criteria were met.

VI. Calibrations

A. All criteria were met.

VII. Internal Standards

A. All criteria were met.

VIII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples SSI-GW-009DL* / SSI-D-001DL:

- 200% for trans-1,2-Dichloroethene

For water samples, the field RPD guideline is ± 25%. The data are not qualified on the basis of field duplicate results.

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All VOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B. The following detected results are qualified as estimated (Jj).

• Trichloroethene and cis-1,2-Dichloroethene in samples	SSI-GW-001 SSI-GW-002 SSI-GW-003	SSI-GW-007 SSI-GW-009*	SSI-GW-011 SSI-D-001
• Trichloroethene in samples	SSI-GW-004	SSI-GW-006	SSI-GW-010

The above listed sample results exceeded the calibration range.

Full Validation Criteria for Samples SSI-GW-009* and SSI-GW-009DL*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the bromofluorobenzene (BFB) GC/MS instrument performance check. The samples were analyzed within 12 hours of the associated instrument performance check.

XI. Target Compound List (TCL) Identification

A. The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested method.

II. Usability

Volatile Organic Analysis (8260B)

A. No results for volatile analysis were rejected in this SDG.

B. Due to LCS/LCSD and compound quantitation problems in the volatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to LCS/LCSD RPD problems, Carbon disulfide nondetected results were qualified as estimated in ten samples.
- All detected results reported below the RL were qualified as estimated.
- Due to compound quantitation problems, cis-1,2-Dichloroethene detected results were qualified as estimated in seven samples and Trichloroethene detected results were qualified as estimated in three samples.

C. Samples SSI-GW-001, SSI-GW-002, SSI-GW-003, SSI-GW-007, SSI-GW-009*, SSI-GW-011, SSI-D-001, SSI-GW-004, SSI-GW-006, and SSI-GW-010 were diluted due to sample results exceeding the calibration range. For samples SSI-GW-001, SSI-GW-002, SSI-GW-003, SSI-GW-007, SSI-GW-009*, SSI-GW-011, and SSI-D-001, all volatile results except Trichloroethene and cis-1,2-Dichloroethene should be considered the most usable. The Trichloroethene and cis-1,2-Dichloroethene results for samples SSI-GW-001DL, SSI-GW-002DL, SSI-GW-003DL, SSI-GW-007DL, SSI-GW-009*DL, SSI-GW-011DL, and SSI-D-001DL should be considered the most usable. For samples SSI-GW-004, SSI-GW-006, and SSI-GW-010, all volatile results except Trichloroethene should be considered the most usable. The Trichloroethene results for samples SSI-GW-004DL, SSI-GW-006DL, and SSI-GW-010DL should be considered the most usable.

III. The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the cursory and full data validation all other results are considered valid and usable for all purposes. In general, the absence of rejected data and the small number of qualifiers added to the data indicate high usability.

ATTACHMENT D-2
LABORATORY REPORT AND DATA VALIDATION REPORT FOR DIRECT PUSH TECHNOLOGY GROUNDWATER AND SOIL SAMPLES, FEBRUARY 2011

CLIENT: **TETRA TECH EMI**

PROJECT: **OPHA MOFFETT**

SDG: **11B186**

I certify this package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than that the conditions detailed in the report. Release of the data contained in this hardcopy data package and in the computer-readable data submitted in CD ROM has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Caspar J. Pang
Laboratory Director

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CLIENT: **TETRA TECH EMI**

PROJECT: **OPHA MOFFETT**

SDG: **11B186**

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METALS	**	7000 –
WET	**	8000 –
OTHERS	**	9000 –

** - Not Requested

EMAX
LABORATORIES, INC.
1835 W. 205th Street
Torrance, CA 90501
Tel: (310) 618-8889
Fax: (310) 618-0818

Date: 03-08-2011
EMAX Batch No.: 11B186

Attn: Sara Woolley

Tetra Tech EMI
1999 Harrison Street, #500
Oakland CA 94612

Subject: Laboratory Report
Project: OPHA Moffett

Enclosed is the Laboratory report for samples received on 02/17/11.
The data reported relate only to samples listed below :

Sample ID	Control #	Col Date	Matrix	Analysis
SSI-HP-001	B186-01	02/14/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-TB-001	B186-02	02/14/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-002	B186-03	02/14/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-003	B186-04	02/14/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-004	B186-05	02/15/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-005	B186-06	02/15/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-006	B186-07	02/15/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-007	B186-08	02/16/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-008	B186-09	02/16/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-D-002	B186-10	02/16/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-009	B186-11	02/16/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-SS-001	B186-12	02/16/11	SOIL	TPH DIESEL & MOTOR OIL
				TPH GASOLINE
				VOLATILE ORGANICS BY GC/MS
SSI-HP-004A	B186-13	02/14/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-004MS	B186-05M	02/15/11	WATER	VOLATILE ORGANICS BY GC/MS
SSI-HP-004MSD	B186-05S	02/15/11	WATER	VOLATILE ORGANICS BY GC/MS

The results are summarized on the following pages.

Please feel free to call if you have any questions concerning
these results.

Sincerely yours,

for

Caspar J. Pang
Laboratory Director

This report is confidential and intended solely for the use of the individual or entity to whom it is addressed. This report shall not be reproduced except in full or without the written approval of EMAX.

EMAX certifies that the results included in this report meets all NELAC & DOD requirements unless noted in the Case Narrative.

NELAC Accredited Certificate Number 02116CA
L-A-B Accredited Certificate Number L2278 Testing

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9213

11B186

Lab PO#:	tofdlaw
Lab:	EMAX
Project name:	Moffett OPHA
TtEMI technical contact:	Sara Woolley
Field samplers:	Dayna Young, Steve Elliott, Rebecca Johnson
Project (CTO) number:	1036152
TtEMI project manager:	Kevin Bricknell
Field samplers' signatures:	Dayna Young, Steve Elliott

Preservative Added: HCl

	Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
1	SSI-HP-001	LOC66-DP-05 / 12-13'	2/14/11	1015	Water		4							X						
2	SSI-TB-001	N/A		—			3													
3	SSI-HP-002	LOC66-DP-06 / 12-13'		1235			4													
4	SSI-HP-003	LOC66-DP-12 / 10-11'		1500			4													
*5	SSI-HP-004	LOC3-DP-01 / 15-16'	2/15/11	1300		X	10													
6	SSI-HP-005	LOC3-DP-02 / 17-18'		1345			4													
7	SSI-HP-006	LOC66-DP-09 / 43.5-44.5'		1540			4													
8	SSI-HP-007	LOC66-DP-07a / 13-14'	2/16/11	0810			4													
9	SSI-HP-008	LOC66-DP-07b / 42-43'		0900			4													
10	SSI-D-002	N/A		0910			4													
11	SSI-HP-009	LOC66-DP-10 / 42-43'		1155																
12	SSI-SS-001	LOC4-02 / 10.7-11.2		1310	Soil					1			6					XX		

	Name (print)	Company Name	Date	Time
Relinquished by:	Steve Elliott	AIS	2-16-11	1330
Received by:	Rebecca Johnson	Tetratech	2-16-11	1330
Relinquished by:	Rebecca Johnson	TtEMI	2/16/11	1700
Received by:	INDRA PATEL	EMAX	2/17/11	0930
Relinquished by:				
Received by:				

Turnaround time/remarks:
* MS/MSD on SSI-HP-004

T = 2.8°C

Fed Ex #:

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9402 11B186

Lab PO#: to follow	Lab: EMAX
Project name: Moffett OPHA	TtEMI technical contact: Sara Woolley
Project (CTO) number: 10361521	TtEMI project manager: Kevin Bricknell
	Field samplers: Rebecca Johnson
	Field samplers' signatures: Rebecca Johnson

Preservative Added: HCl

	Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
13	SS1-HP-004a		2/14/11	1555	H_2O		4							X						

	Name (print)	Company Name	Date	Time
Relinquished by: Rebecca Johnson	Rebecca Johnson	Tt EMI	2/16/11	1700
Received by: [signature]	INDRA PATEL	EMAX	2/17/11	0930
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:

Fed Ex #:

1002

EMAX LABORATORIES, INC.

SAMPLE RECEIPT FORM 1

Type of Delivery	Delivered By/Airbill	ECN 11B186
☐ EMAX Courier		Recepient I PATEL
☐ Client Delivery		Date 2-17-11
☑ Third Party Fed-x	7944 3536 2943	Time 0930

COC Inspection

☑ Client Name	☑ Client PM/FC	☑ Sampler Name	☑ Sampling Date/Time/Location	☑ Sample ID	☑ Matrix
☑ Address	☑ Tel # / Fax #	☐ Courier Signature	☑ Analysis Required	☑ Preservative (if any)	☐ TAT
Safety Issues	☑ None	☐ High concentrations expected	☐ Superfund Site samples	☐ Rad screening required	

Comments:

Packaging Inspection

Container	☑ Cooler	☐ Box	☐ Other		
Condition	☐ Custody Seal	☑ Intact	☐ Damaged		
Packaging	☑ Bubble Pack	☐ Styrofoam	☐ Popcorn	☑ Sufficient	☑ Plastic Bag
Temperatures (Cool, ≤6 °C but not frozen)	B ☑ Cooler 1 2.8 °C	☐ Cooler 2_____ °C	☐ Cooler 3_____ °C	☐ Cooler 4_____ °C	☐ Cooler 5_____ °C
	☐ Cooler 6_____ °C	☐ Cooler 7_____ °C	☐ Cooler 8_____ °C	☐ Cooler 9_____ °C	☐ Cooler 10_____ °C

Thermometer: *A - S/N 101541371* *B - S/N 101541382*

Comments: ☐ **PM was informed on non-compliant coolers immediately.**

DISCREPANCIES

LSID	LSCID	Sample Label ID/COC ID	Discrepancy Code	Corrective Action Code
02, 04, 05	006, 012, 17, 2023		Rec'd vials w/ Small	R5, R6
			bubble < 6mm.	
07, 09, 10			All vials Rec'd	R5, R7
			w/ Sediments 30%	
			To 50%.	

REVIEWS

Sample Labeling [signature] Date 2/17/11

SRF [signature] Date 2/17/11

PM [signature] Date 2/18/11

LEGEND:

Code	Description- Sample Management	Code	Description-Sample Management	Code	Description-Project Management
A1	Analysis is not indicated in COC	D1	Date and/or time is not indicated in COC	R1	Hold sample(s); wait for further instructions
A2	Analysis is not indicated in label	D2	Date and/or time is not indicated in label	R2	Proceed as indicated in COC
A3	Analysis is inconsistent in COC vis-à-vis label	D3	Date and/or time is inconsistent in COC vis-à-vis label	R3	Refer to attached instruction
A4		E1	Insuficient preservative	R4	Cancel the analysis
B1	Sample ID is not indicated in COC	E2	Improper preservation	R5	Inform client.
B2	Sample ID is not indicated in label	F1	Insufficient Sample	R6	Analyze vials with no bubble first.
B3	Sample ID is inconsistent in COC vis-à-vis label	F2	Bubble is> 6mm	R7	Analyze aqueous layer for analysis. Use 2 vials for analysis as needed.
B4		G1	Temperature is out of range		
C1	Wrong container	G2	Out of Holding Time		
C2	Broken container	G3	>20 % solid particle		
C3	Leaking container	H1			
C4		H2			

From: (510) 302-6300
TETRA TECH EM INC
TETRA TECH EM INC
1999 Harrison Street
Suite 500
Oakland, CA 94612

Origin ID: JBSA

FedEx Express

J11101012220225

Ship Date: 16FEB11
ActWgt: 25.0 LB
CAD: 2599736/INET3130

Delivery Address Bar Code

SHIP TO: (310) 618-8889

BILL SENDER

Sample Receiving
E-Max Laboratories
1835 West 205th Street

Torrance, CA 90501

Ref # 103G1521.03.02
Invoice # RREBECCA JOHNSON
PO #
Dept #

11B186
2-17-11 0930

RELEASE#: 3785346

THU - 17 FEB A1
PRIORITY OVERNIGHT

TRK# 7944 3536 2943
0201

90 AVXA

90501
CA-US
LAX

50DG1/82C2/7EFB

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REPORTING CONVENTIONS

DATA QUALIFIERS:

Lab Qualifier	AFCEE Qualifier	Description
J	F	Indicates that the analyte is positively identified and the result is less than RL but greater than MDL.
N		Indicates presumptive evidence of a compound.
B	B	Indicates that the analyte is found in the associated method blank as well as in the sample at above QC level.
E	J	Indicates that the result is above the maximum calibration range.
*	*	Out of QC limit.

Note: The above qualifiers are used to flag the results unless the project requires a different set of qualification criteria.

ACRONYMS AND ABBREVIATIONS:

CRDL	Contract Required Detection Limit
RL	Reporting Limit
MRL	Method Reporting Limit
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
DO	Diluted out

DATES

The date and time information for leaching and preparation reflect the beginning date and time of the procedure unless the method, protocol, or project specifically requires otherwise.

SUMMARY PACKAGE
VOLATILE ORGANICS
(WATER)

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of twelve (12) water samples were received on 02/17/11 for Volatile Organics by GC/MS analysis, Method 5030B/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Samples were analyzed within the prescribed holding time. Sample B186-04 was analyzed within method holding time of 14 days based on vials labeled with preservation, but analysis shows pH>2.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, four (4) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
Four (4) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for VO01B28L/C were all within QC limits.
Percent recoveries for VO01B29L/C were all within QC limits.
Percent recoveries for VO03B28X/C were all within QC limits.
Percent recoveries for VO03B29L/Y were all within QC limits.

Matrix QC Sample
A set of MS/MSD was analyzed with the samples in this SDG.
Percent recoveries were within project QC limits except for results qualified with [*] in B186-05 G/V summary form, due to high parent sample concentration. Check QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Manual integration was applied to Carbon disulfide analyte in sample B186-11 because of improper integration. Chromatograms of before and after manual integration were submitted for review. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Sample B186-04 was detected for residual chlorine above acceptable limit.
Trace amount of Toluene below RL was detected in the reanalysis of sample B186-02. Initial analysis confirmed the result. Vials are from EMAX lot TB-003-01-09 which was prepared in 01/05/2011. Vials have been out of EMAX control since 01/05/2011.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001B28B	1	NA	02/22/1109:23	02/22/1109:23	RBV572	RLV333	V001B28	Method Blank
LCS1W	V001B28L	1	NA	02/22/1107:43	02/22/1107:43	RBV569	RLV333	V001B28	Lab Control Sample (LCS)
LCD1W	V001B28C	1	NA	02/22/1108:17	02/22/1108:17	RBV570	RLV333	V001B28	LCS Duplicate
SSI-D-002	B186-10	1	NA	02/22/1112:19	02/22/1112:19	RBV577	RLV333	V001B28	Field Sample
SSI-HP-008	B186-09	1	NA	02/22/1112:50	02/22/1112:50	RBV578	RLV333	V001B28	Field Sample
SSI-HP-006	B186-07	1	NA	02/22/1113:21	02/22/1113:21	RBV579	RLV333	V001B28	Field Sample
SSI-HP-003	B186-04	1	NA	02/22/1114:26	02/22/1114:26	RBV581	RLV333	V001B28	Field Sample
SSI-HP-005	B186-06	1	NA	02/22/1117:38	02/22/1117:38	RBV587	RLV333	V001B28	Field Sample
MBLK2W	V001B29B	1	NA	02/22/1122:25	02/22/1122:25	RBV596	RLV333	V001B29	Method Blank
LCS2W	V001B29L	1	NA	02/22/1120:49	02/22/1120:49	RBV593	RLV333	V001B29	Lab Control Sample (LCS)
LCD2W	V001B29C	1	NA	02/22/1121:21	02/22/1121:21	RBV594	RLV333	V001B29	LCS Duplicate
SSI-HP-009	B186-11	1	NA	02/22/1122:57	02/22/1122:57	RBV597	RLV333	V001B29	Field Sample
SSI-HP-004A	B186-13	1	NA	02/22/1123:30	02/22/1123:30	RBV598	RLV333	V001B29	Field Sample
MBLK3W!	V003B28B	1	NA	02/24/1112:09	02/24/1112:09	RBB475	RBB361	V003B28	Method Blank
LCS3W!	V003B28X	1	NA	02/24/1110:53	02/24/1110:53	RBB473	RBB361	V003B28	Lab Control Sample (LCS)
LCD3W!	V003B28C	1	NA	02/24/1110:04	02/24/1110:04	RBB472	RBB361	V003B28	LCS Duplicate
SSI-HP-001!	B186-01R	1	NA	02/24/1112:46	02/24/1112:46	RBB476	RBB361	V003B28	Field Sample
SSI-TB-001!	B186-02R	1	NA	02/24/1113:23	02/24/1113:23	RBB477	RBB361	V003B28	Field Sample
SSI-HP-002!	B186-03R	1	NA	02/24/1113:59	02/24/1113:59	RBB478	RBB361	V003B28	Field Sample
SSI-HP-007!	B186-08R	1	NA	02/24/1114:35	02/24/1114:35	RBB479	RBB361	V003B28	Field Sample
MBLK4W!	V003B29B	1	NA	02/25/1114:12	02/25/1114:12	RBB489	RBB361	V003B29	Method Blank
LCS4W!	V003B29L	1	NA	02/25/1111:07	02/25/1111:07	RBB485	RBB361	V003B29	Lab Control Sample (LCS)
LCD4W!	V003B29Y	1	NA	02/25/1112:58	02/25/1112:58	RBB487	RBB361	V003B29	LCS Duplicate
SSI-HP-004!	B186-05N	1	NA	02/25/1115:24	02/25/1115:24	RBB491	RBB361	V003B29	Field Sample
SSI-HP-004MS!	B186-05G	1	NA	02/25/1116:00	02/25/1116:00	RBB492	RBB361	V003B29	Matrix Spike Sample (MS)
SSI-HP-004MSD!	B186-05V	1	NA	02/25/1116:36	02/25/1116:36	RBB493	RBB361	V003B29	MS Duplicate (MSD)
SSI-HP-005DL!	B186-06T	10	NA	02/25/1118:24	02/25/1118:24	RBB496	RBB361	V003B29	Diluted Sample

! Instrument ID : T-003
FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/14/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/24/11 12:46
Sample ID: SSI-HP-001	Date Analyzed: 02/24/11 12:46
Lab Samp ID: B186-01R	Dilution Factor: 1
Lab File ID: RBB476	Matrix : WATER
Ext Btch ID: V003B28	% Moisture : NA
Calib. Ref.: RBB361	Instrument ID : T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.47J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	0.2DJ	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	0.88J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.36J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.78J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.36J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.30J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.54	10.00	95.4	70-120
4-BROMOFLUOROBENZENE	9.63	10.00	96.3	75-120
TOLUENE-D8	9.96	10.00	99.6	85-120
DIBROMOFLUOROMETHANE	9.75	10.00	97.5	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 13:23
Sample ID:	SSI-TB-001	Date Analyzed:	02/24/11 13:23
Lab Samp ID:	B186-02R	Dilution Factor:	1
Lab File ID:	RB8477	Matrix :	WATER
Ext Btch ID:	V003B28	% Moisture :	NA
Calib. Ref.:	RB8361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.82J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.79	10.00	97.9	70-120
4-BROMOFLUOROBENZENE	9.73	10.00	97.3	75-120
TOLUENE-D8	9.79	10.00	97.9	85-120
DIBROMOFLUOROMETHANE	10.1	10.00	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/14/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/24/11 13:59
Sample ID: SSI-HP-002	Date Analyzed: 02/24/11 13:59
Lab Samp ID: B186-03R	Dilution Factor: 1
Lab File ID: RBB478	Matrix : WATER
Ext Btch ID: V003B28	% Moisture : NA
Calib. Ref.: RBB361	Instrument ID : T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.28J	1.0	0.20
M/P-XYLENES	1.6J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.66J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.2	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.66J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.50J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.83	10.00	98.3	70-120
4-BROMOFLUOROBENZENE	9.53	10.00	95.3	75-120
TOLUENE-D8	9.54	10.00	95.4	85-120
DIBROMOFLUOROMETHANE	10.1	10.00	101	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/14/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/22/11 14:26
Sample ID: SSI-HP-003	Date Analyzed: 02/22/11 14:26
Lab Samp ID: B186-04	Dilution Factor: 1
Lab File ID: RBV581	Matrix : WATER
Ext Btch ID: V001B28	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.41J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	3.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.26J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.28J	1.0	0.20
TRICHLOROETHENE	14	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.71	10.00	97.1	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.59	10.00	95.9	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/25/11 15:24
Sample ID:	SSI-HP-004	Date Analyzed:	02/25/11 15:24
Lab Samp ID:	B186-05N	Dilution Factor:	1
Lab File ID:	RBB491	Matrix	: WATER
Ext Btch ID:	V003B29	% Moisture	: NA
Calib. Ref.:	RBB361	Instrument ID	: T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.52J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	5.6	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.3DJ	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.54J	1.0	0.20
TRICHLOROETHENE	94	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	9.32	10.00	93.2	75-120
TOLUENE-D8	9.36	10.00	93.6	85-120
DIBROMOFLUOROMETHANE	10.3	10.00	103	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 17:38
Sample ID:	SSI-HP-005	Date Analyzed:	02/22/11 17:38
Lab Samp ID:	B186-06	Dilution Factor:	1
Lab File ID:	RBV587	Matrix :	WATER
Ext Btch ID:	VO01B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.46J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	6.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.55J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.69J	1.0	0.20
TRICHLOROETHENE	110E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.81	10.00	98.1	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	10.6	10.00	106	85-120
DIBROMOFLUOROMETHANE	9.57	10.00	95.7	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/25/11 18:24
Sample ID:	SSI-HP-005DL	Date Analyzed:	02/25/11 18:24
Lab Samp ID:	B186-06T	Dilution Factor:	10
Lab File ID:	RBB496	Matrix :	WATER
Ext Btch ID:	V003829	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	40
2-HEXANONE	ND	100	40
4-METHYL-2-PENTANONE	ND	100	40
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	3.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	3.0
CIS-1,2-DICHLOROETHENE	6.0J	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	4.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	NO	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	ND	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	96.9	100.0	96.9	75-120
TOLUENE-D8	97.3	100.0	97.3	85-120
DIBROMOFLUOROMETHANE	97.8	100.0	97.8	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 13:21
Sample ID:	SSI-HP-006	Date Analyzed:	02/22/11 13:21
Lab Samp ID:	B186-07	Dilution Factor:	1
Lab File ID:	RBV579	Matrix :	WATER
Ext Btch ID:	V001B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.33J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	3.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.26J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.46J	1.0	0.20
TRICHLOROETHENE	99	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.77	10.00	97.7	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.50	10.00	95.0	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 14:35
Sample ID:	SSI-HP-007	Date Analyzed:	02/24/11 14:35
Lab Samp ID:	B186-08R	Dilution Factor:	1
Lab File ID:	RBB479	Matrix :	WATER
Ext Btch ID:	V003B28	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.22J	1.0	0.20
1,1-DICHLOROETHENE	0.30J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	0.50J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.20J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.63J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.36J	1.0	0.20
TRICHLOROETHENE	45	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.84	10.00	98.4	70-120
4-BROMOFLUOROBENZENE	9.70	10.00	97.0	75-120
TOLUENE-D8	9.83	10.00	98.3	85-120
DIBROMOFLUOROMETHANE	10.0	10.00	100	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 12:50
Sample ID:	SS1-HP-008	Date Analyzed:	02/22/11 12:50
Lab Samp ID:	B186-09	Dilution Factor:	1
Lab File ID:	RBV578	Matrix :	WATER
Ext Btch ID:	V001B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.23J	1.0	0.20
1,1-DICHLOROETHENE	0.28J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	6.0J	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	1.5	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.23J	1.0	0.20
M/P-XYLENES	0.44J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.28J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.5	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.42J	1.0	0.20
TRICHLOROETHENE	50	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.63	10.00	96.3	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 12:19
Sample ID:	SSI-D-002	Date Analyzed:	02/22/11 12:19
Lab Samp ID:	B186-10	Dilution Factor:	1
Lab File ID:	RBV577	Matrix :	WATER
Ext Btch ID:	V001B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.20J	1.0	0.20
1,1-DICHLOROETHENE	0.25J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	6.9J	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	1.2	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.22J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.0	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.41J	1.0	0.20
TRICHLOROETHENE	49	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.6	10.00	106	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.99	10.00	99.9	85-115

METHOD 503DB/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/16/11
Project : DPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/22/11 22:57
Sample ID: SS1-HP-D09	Date Analyzed: 02/22/11 22:57
Lab Samp ID: B186-11	Dilution Factor: 1
Lab File ID: RBV597	Matrix : WATER
Ext Btch ID: V001B29	% Moisture : NA
Calib. Ref.: RLV333	Instrument ID : T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.38J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.26J	1.0	0.20
M/P-XYLENES	1.2J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.57J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.2	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.25J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.34J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.90	10.00	99.0	70-120
4-BROMOFLUOROBENZENE	10.3	10.00	103	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.70	10.00	97.0	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 23:30
Sample ID:	SSI-HP-004A	Date Analyzed:	02/22/11 23:30
Lab Samp ID:	B186-13	Dilution Factor:	1
Lab File ID:	RBV598	Matrix :	WATER
Ext Btch ID:	V001B29	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	0.22J	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.83J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	0.24J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.59J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.76J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.95	10.00	99.5	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.43	10.00	94.3	85-115

QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/22/11
Batch No.	: 11B186	Date Extracted:	02/22/11 09:23
Sample ID:	MBLK1W	Date Analyzed:	02/22/11 09:23
Lab Samp ID:	V001B28B	Dilution Factor:	1
Lab File ID:	RBV572	Matrix :	WATER
Ext Btch ID:	V001B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.76	10.00	97.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001B28B	V001B28L	V001B28C		
LAB FILE ID:	RBV572	RBV569	RBV570		
DATE EXTRACTED:	02/22/1109:23	02/22/1107:43	02/22/1108:17	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1109:23	02/22/1107:43	02/22/1108:17	DATE RECEIVED:	02/22/11
PREP. BATCH:	V001B28	V001B28	V001B28		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.3	103	10.0	9.20	92	11	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.28	93	10.0	8.58	86	8	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.71	97	10.0	9.18	92	6	75-125	30
1,1-Dichloroethane	ND	10.0	10.0	100	10.0	9.06	91	10	70-135	30
1,1-Dichloroethene	ND	10.0	9.97	100	10.0	9.29	93	7	70-130	30
1,2-Dichloroethane	ND	10.0	9.49	95	10.0	8.85	88	7	70-130	30
2-Butanone	ND	50.0	51.5	103	50.0	46.6	93	10	30-150	30
2-Hexanone	ND	50.0	45.9	92	50.0	42.2	84	8	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.9	92	50.0	42.4	85	8	60-135	30
Benzene	ND	10.0	9.96	100	10.0	9.47	95	5	80-120	30
Bromodichloromethane	ND	10.0	9.13	91	10.0	8.80	88	4	75-120	30
Bromoform	ND	10.0	9.26	93	10.0	8.57	86	8	70-130	30
Carbon Disulfide	ND	10.0	11.4	114	10.0	9.47	95	19	35-160	30
Carbon Tetrachloride	ND	10.0	10.0	100	10.0	9.27	93	8	65-140	30
Chlorobenzene	ND	10.0	9.90	99	10.0	9.31	93	6	80-120	30
Chloroethane	ND	10.0	10.9	109	10.0	9.86	99	10	60-135	30
Chloroform	ND	10.0	9.42	94	10.0	8.77	88	7	65-135	30
Chloromethane	ND	10.0	10.1	101	10.0	8.94	89	12	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.95	100	10.0	9.27	93	7	70-125	30
Dibromochloromethane	ND	10.0	8.99	90	10.0	8.42	84	6	60-135	30
Ethylbenzene	ND	10.0	9.94	99	10.0	9.34	93	6	75-125	30
m/p-Xylenes	ND	20.0	19.5	97	20.0	18.4	92	6	75-130	30
Methylene Chloride	ND	10.0	8.58	86	10.0	8.03	80	7	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.75	97	10.0	9.05	91	7	65-125	30
o-Xylene	ND	10.0	9.91	99	10.0	9.31	93	6	80-120	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.49	95	6	45-150	30
Toluene	ND	10.0	9.95	99	10.0	9.47	95	5	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.67	97	10.0	9.06	91	6	60-140	30
Trichloroethene	ND	10.0	9.61	96	10.0	9.08	91	6	70-125	30
Vinyl Chloride	ND	10.0	10.3	103	10.0	9.29	93	11	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.2	102	10.0	9.51	95	7	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	10.2	102	10.0	9.56	96	7	75-130	30
Dichlorodifluoromethane	ND	10.0	10.2	102	10.0	9.20	92	10	30-155	30
Isopropylbenzene	ND	10.0	10.4	104	10.0	9.68	97	7	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.71	97	10.0	9.51	95	70-120
4-Bromofluorobenzene	10.0	10.3	103	10.0	10.4	104	75-120
Toluene-d8	10.0	10.3	103	10.0	10.3	103	85-120
Dibromofluoromethane	10.0	9.59	96	10.0	9.38	94	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/22/11
Batch No.	: 11B186	Date Extracted:	02/22/11 22:25
Sample ID:	MBLK2W	Date Analyzed:	02/22/11 22:25
Lab Samp ID:	V001B29B	Dilution Factor:	1
Lab File ID:	RBV596	Matrix :	WATER
Ext Btch ID:	V001B29	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUORDMETHANE	9.59	10.00	95.9	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V001B29B	V001B29L	V001B29C		
LAB FILE ID:	RBV596	RBV593	RBV594		
DATE EXTRACTED:	02/22/1122:25	02/22/1120:49	02/22/1121:21	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1122:25	02/22/1120:49	02/22/1121:21	DATE RECEIVED:	02/22/11
PREP. BATCH:	V001B29	V001B29	V001B29		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.06	91	10.0	9.36	94	3	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.13	91	10.0	9.24	92	1	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.49	95	10.0	9.59	96	1	75-125	30
1,1-Dichloroethane	ND	10.0	9.42	94	10.0	9.56	96	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.14	91	10.0	9.26	93	1	70-130	30
1,2-Dichloroethane	ND	10.0	9.18	92	10.0	9.09	91	1	70-130	30
2-Butanone	ND	50.0	51.8	104	50.0	48.3	97	7	30-150	30
2-Hexanone	ND	50.0	46.8	94	50.0	43.7	87	7	55-130	30
4-Methyl-2-Pentanone	ND	50.0	47.4	95	50.0	43.7	87	8	60-135	30
Benzene	ND	10.0	9.50	95	10.0	9.55	95	1	80-120	30
Bromodichloromethane	ND	10.0	8.93	89	10.0	9.03	90	1	75-120	30
Bromoform	ND	10.0	9.10	91	10.0	9.19	92	1	70-130	30
Carbon Disulfide	ND	10.0	9.00	90	10.0	9.22	92	2	35-160	30
Carbon Tetrachloride	ND	10.0	8.76	88	10.0	8.83	88	1	65-140	30
Chlorobenzene	ND	10.0	9.37	94	10.0	9.72	97	4	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.0	110	5	60-135	30
Chloroform	ND	10.0	9.01	90	10.0	9.27	93	3	65-135	30
Chloromethane	ND	10.0	9.83	98	10.0	9.64	96	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.43	94	10.0	9.54	95	1	70-125	30
Dibromochloromethane	ND	10.0	8.85	88	10.0	8.77	88	1	60-135	30
Ethylbenzene	ND	10.0	9.22	92	10.0	9.48	95	3	75-125	30
m/p-Xylenes	ND	20.0	18.3	92	20.0	18.7	94	2	75-130	30
Methylene Chloride	ND	10.0	8.38	84	10.0	8.61	86	3	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	10.0	100	10.0	9.74	97	3	65-125	30
o-Xylene	ND	10.0	9.43	94	10.0	9.69	97	3	80-120	30
Tetrachloroethene	ND	10.0	9.21	92	10.0	9.48	95	3	45-150	30
Toluene	ND	10.0	9.35	94	10.0	9.65	96	3	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.11	91	10.0	9.33	93	2	60-140	30
Trichloroethene	ND	10.0	9.16	92	10.0	9.49	95	4	70-125	30
Vinyl Chloride	ND	10.0	9.45	94	10.0	9.92	99	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.51	95	10.0	10.1	101	6	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.69	97	10.0	10.2	102	6	75-130	30
Dichlorodifluoromethane	ND	10.0	8.36	84	10.0	8.66	87	4	30-155	30
Isopropylbenzene	ND	10.0	9.83	98	10.0	10.4	104	6	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.0	100	70-120
4-Bromofluorobenzene	10.0	10.4	104	10.0	10.8	108	75-120
Toluene-d8	10.0	10.5	105	10.0	10.4	104	85-120
Dibromofluoromethane	10.0	9.61	96	10.0	9.55	96	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/24/11
Batch No.	: 118186	Date Extracted:	02/24/11 12:09
Sample ID:	MBLK3W	Date Analyzed:	02/24/11 12:09
Lab Samp ID:	V003828B	Dilution Factor:	1
Lab File ID:	RBB475	Matrix :	WATER
Ext Btch ID:	V003828	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.0	10.00	100	70-120
4-BROMOFLUOROBENZENE	9.29	10.00	92.9	75-120
TOLUENE-D8	9.44	10.00	94.4	85-120
DIBROMOFLUOROMETHANE	9.86	10.00	98.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	V003B28B	V003B28X	V003B28C		
LAB FILE ID:	RBB475	RBB473	RBB472		
DATE EXTRACTED:	02/24/1112:09	02/24/1110:53	02/24/1110:04	DATE COLLECTED:	NA
DATE ANALYZED:	02/24/1112:09	02/24/1110:53	02/24/1110:04	DATE RECEIVED:	02/24/11
PREP. BATCH:	V003B28	V003B28	V003B28		
CALIB. REF:	RBB361	RBB361	RBB361		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.6	106	10.0	9.95	100	6	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	8.93	89	10.0	8.71	87	2	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.38	94	10.0	9.52	95	1	75-125	30
1,1-Dichloroethane	ND	10.0	10.1	101	10.0	9.37	94	7	70-135	30
1,1-Dichloroethene	ND	10.0	10.5	105	10.0	9.82	98	6	70-130	30
1,2-Dichloroethane	ND	10.0	10.6	106	10.0	10.2	102	3	70-130	30
2-Butanone	ND	50.0	49.9	100	50.0	49.7	99	0	30-150	30
2-Hexanone	ND	50.0	50.1	100	50.0	52.7	105	5	55-130	30
4-Methyl-2-Pentanone	ND	50.0	51.7	103	50.0	50.7	101	2	60-135	30
Benzene	ND	10.0	8.88	89	10.0	8.69	87	2	80-120	30
Bromodichloromethane	ND	10.0	10.7	107	10.0	10.4	104	3	75-120	30
Bromoform	ND	10.0	9.61	96	10.0	9.42	94	2	70-130	30
Carbon Disulfide	ND	10.0	10.3	103	10.0	9.16	92	12	35-160	30
Carbon Tetrachloride	ND	10.0	10.4	104	10.0	9.67	97	8	65-140	30
Chlorobenzene	ND	10.0	9.54	95	10.0	9.26	93	3	80-120	30
Chloroethane	ND	10.0	10.6	106	10.0	10.0	100	6	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	9.89	99	3	65-135	30
Chloromethane	ND	10.0	10.9	109	10.0	11.1	111	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.56	96	10.0	9.42	94	1	70-125	30
Dibromochloromethane	ND	10.0	12.0	120	10.0	11.8	118	2	60-135	30
Ethylbenzene	ND	10.0	9.53	95	10.0	9.38	94	2	75-125	30
m/p-Xylenes	ND	20.0	19.5	97	20.0	19.3	96	1	75-130	30
Methylene Chloride	ND	10.0	9.94	99	10.0	9.26	93	7	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	10.3	103	10.0	10.4	104	1	65-125	30
o-Xylene	ND	10.0	9.68	97	10.0	9.56	96	1	80-120	30
Tetrachloroethene	ND	10.0	9.66	97	10.0	9.15	92	5	45-150	30
Toluene	ND	10.0	9.24	92	10.0	9.04	90	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.3	103	10.0	9.76	98	5	60-140	30
Trichloroethene	ND	10.0	9.37	94	10.0	8.89	89	5	70-125	30
Vinyl Chloride	ND	10.0	11.2	112	10.0	11.2	112	0	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	8.94	89	10.0	8.86	89	1	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	8.93	89	10.0	9.06	91	1	75-130	30
Dichlorodifluoromethane	ND	10.0	11.0	110	10.0	10.8	108	2	30-155	30
Isopropylbenzene	ND	10.0	8.89	89	10.0	8.54	85	4	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.4	104	70-120
4-Bromofluorobenzene	10.0	9.01	90	10.0	8.79	88	75-120
Toluene-d8	10.0	9.32	93	10.0	9.14	91	85-120
Dibromofluoromethane	10.0	10.4	104	10.0	10.5	105	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/25/11
Batch No.	: 11B186	Date Extracted:	02/25/11 14:12
Sample ID:	MBLK4W	Date Analyzed:	02/25/11 14:12
Lab Samp ID:	V003B29B	Dilution Factor:	1
Lab File ID:	RBB489	Matrix	: WATER
Ext Btch ID:	V003B29	% Moisture	: NA
Calib. Ref.:	RBB361	Instrument ID	: T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.73	10.00	97.3	70-120
4-BROMOFLUOROBENZENE	9.20	10.00	92.0	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.70	10.00	97.0	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK4W				
LAB SAMP ID:	V003B29B	V003B29L	V003B29Y		
LAB FILE ID:	RBB489	RBB485	RBB487		
DATE EXTRACTED:	02/25/1114:12	02/25/1111:07	02/25/1112:58	DATE COLLECTED:	NA
DATE ANALYZED:	02/25/1114:12	02/25/1111:07	02/25/1112:58	DATE RECEIVED:	02/25/11
PREP. BATCH:	V003B29	V003B29	V003B29		
CALIB. REF:	RBB361	RBB361	RBB361		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	10.0	100	1	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.24	92	10.0	9.39	94	2	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.86	99	10.0	9.88	99	0	75-125	30
1,1-Dichloroethane	ND	10.0	9.65	97	10.0	9.54	95	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.53	95	10.0	9.70	97	2	70-130	30
1,2-Dichloroethane	ND	10.0	9.88	99	10.0	9.86	99	0	70-130	30
2-Butanone	ND	50.0	52.6	105	50.0	52.0	104	1	30-150	30
2-Hexanone	ND	50.0	56.7	113	50.0	55.5	111	2	55-130	30
4-Methyl-2-Pentanone	ND	50.0	54.7	109	50.0	54.7	109	0	60-135	30
Benzene	ND	10.0	8.85	88	10.0	8.62	86	3	80-120	30
Bromodichloromethane	ND	10.0	10.3	103	10.0	9.95	100	4	75-120	30
Bromoform	ND	10.0	9.41	94	10.0	9.83	98	4	70-130	30
Carbon Disulfide	ND	10.0	9.48	95	10.0	9.27	93	2	35-160	30
Carbon Tetrachloride	ND	10.0	9.92	99	10.0	9.81	98	1	65-140	30
Chlorobenzene	ND	10.0	9.49	95	10.0	9.48	95	0	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.4	114	9	60-135	30
Chloroform	ND	10.0	9.76	98	10.0	9.55	96	2	65-135	30
Chloromethane	ND	10.0	11.0	110	10.0	10.9	109	1	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.37	94	10.0	9.46	95	1	70-125	30
Dibromochloromethane	ND	10.0	11.7	117	10.0	11.5	115	2	60-135	30
Ethylbenzene	ND	10.0	9.52	95	10.0	9.56	96	0	75-125	30
m/p-Xylenes	ND	20.0	19.9	100	20.0	19.4	97	3	75-130	30
Methylene Chloride	ND	10.0	9.19	92	10.0	9.40	94	2	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.97	100	10.0	9.85	99	1	65-125	30
o-Xylene	ND	10.0	9.78	98	10.0	9.73	97	1	80-120	30
Tetrachloroethene	ND	10.0	9.32	93	10.0	9.29	93	0	45-150	30
Toluene	ND	10.0	9.24	92	10.0	9.04	90	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.86	99	10.0	9.63	96	2	60-140	30
Trichloroethene	ND	10.0	9.20	92	10.0	9.05	91	2	70-125	30
Vinyl Chloride	ND	10.0	10.7	107	10.0	11.1	111	4	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.24	92	10.0	9.29	93	1	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.07	91	10.0	9.19	92	1	75-130	30
Dichlorodifluoromethane	ND	10.0	10.7	107	10.0	10.8	108	1	30-155	30
Isopropylbenzene	ND	10.0	8.79	88	10.0	8.95	90	2	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.85	98	70-120
4-Bromofluorobenzene	10.0	8.86	89	10.0	9.09	91	75-120
Toluene-d8	10.0	9.27	93	10.0	9.15	92	85-120
Dibromofluoromethane	10.0	10.3	103	10.0	9.87	99	85-115

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	SSI-HP-004				
LAB SAMP ID:	B186-05N	B186-05G	B186-05V		
LAB FILE ID:	RBB491	RBB492	RBB493		
DATE EXTRACTED:	02/25/1115:24	02/25/1116:00	02/25/1116:36	DATE COLLECTED:	02/15/11
DATE ANALYZED:	02/25/1115:24	02/25/1116:00	02/25/1116:36	DATE RECEIVED:	02/17/11
PREP. BATCH:	V003B29	V003B29	V003B29		
CALIB. REF:	RBB361	RBB361	RBB361		

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	9.85	98	2	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.20	92	10.0	9.19	92	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.82	98	10.0	9.58	96	3	75-125	30
1,1-Dichloroethane	ND	10.0	9.63	96	10.0	9.70	97	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.37	94	10.0	9.08	91	3	70-130	30
1,2-Dichloroethane	ND	10.0	9.92	99	10.0	10.1	101	2	70-130	30
2-Butanone	ND	50.0	50.2	100	50.0	48.6	97	3	30-150	30
2-Hexanone	ND	50.0	53.3	107	50.0	52.6	105	1	55-130	30
4-Methyl-2-Pentanone	ND	50.0	51.6	103	50.0	51.3	103	1	60-135	30
Benzene	ND	10.0	9.31	93	10.0	9.25	92	1	80-120	30
Bromodichloromethane	ND	10.0	10.3	103	10.0	10.3	103	0	75-120	30
Bromoform	ND	10.0	9.57	96	10.0	9.80	98	2	70-130	30
Carbon Disulfide	0.516J	10.0	8.09	76	10.0	9.27	88	14	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	9.90	99	2	65-140	30
Chlorobenzene	ND	10.0	9.69	97	10.0	9.73	97	0	80-120	30
Chloroethane	ND	10.0	10.3	103	10.0	8.79	88	16	60-135	30
Chloroform	ND	10.0	9.88	99	10.0	10.0	100	2	65-135	30
Chloromethane	ND	10.0	10.6	106	10.0	9.85	98	7	40-125	30
cis-1,2-Dichloroethene	5.57	10.0	15.5	99	10.0	15.0	95	3	70-125	30
Dibromochloromethane	ND	10.0	11.9	119	10.0	11.7	117	2	60-135	30
Ethylbenzene	ND	10.0	10.0	100	10.0	9.76	98	2	75-125	30
m/p-Xylenes	ND	20.0	19.7	99	20.0	20.5	102	4	75-130	30
Methylene Chloride	ND	10.0	9.21	92	10.0	8.86	89	4	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.84	98	10.0	9.65	97	2	65-125	30
o-Xylene	ND	10.0	10.2	102	10.0	10.1	101	1	80-120	30
Tetrachloroethene	ND	10.0	9.38	94	10.0	9.44	94	1	45-150	30
Toluene	0.296J	10.0	9.89	96	10.0	10.0	97	1	75-120	30
Trans-1,2-Dichloroethene	0.543J	10.0	10.3	98	10.0	9.75	92	5	60-140	30
Trichloroethene	94.2	10.0	98.1	39*	10.0	102	78	4	70-125	30
Vinyl Chloride	ND	10.0	11.1	111	10.0	9.91	99	11	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.29	93	10.0	9.77	98	5	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.38	94	10.0	9.74	97	4	75-130	30
Dichlorodifluoromethane	ND	10.0	10.9	109	10.0	9.83	98	10	30-155	30
Isopropylbenzene	ND	10.0	9.20	92	10.0	9.65	97	5	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	9.95	100	70-120
4-Bromofluorobenzene	10.0	9.42	94	10.0	9.39	94	75-120
Toluene-d8	10.0	9.16	92	10.0	9.50	95	85-120
Dibromofluoromethane	10.0	10.4	104	10.0	10.1	101	85-115

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11B186

Lab File ID: RLV327 — BFB Injection Date : 12/11/10

Instrument ID: TO01 — BFB Injection Time : D9:15

GC Column:RTX502.2ID:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.73
75	30.0 - 60.0% of mass 95	43.26
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.83
175	5.0 - 9.0% of mass 174	5.60(7.5)1
176	95.0 - 101.0% of mass 174	73.56(98.3)1
177	5.0 - 9.0% of mass 176	4.84(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V001L111	RLV328	12/11/10	09:56
2	VSTD0.5	V001L112	RLV329	12/11/10	10:28
3	VSTD01	V001L113	RLV330	12/11/10	11:02
4	VSTD02	V001L114	RLV331	12/11/10	11:34
5	VSTD05	V001L115	RLV332	12/11/10	12:08
6	VSTD010	VOD1L116	RLV333	12/11/10	12:40
7	VSTD020	V001L117	RLV334	12/11/10	13:12
8	VSTD030	V001L118	RLV335	12/11/10	13:47
9	VSTD050	V001L1110	RLV337	12/11/10	14:51
10	VSTD100	V001L1111	RLV338	12/11/10	15:24
11	VSTD010	IV001L1101	RLV341	12/11/10	17:01

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	0.193	0.174	0.188	0.178	0.173	0.190	0.185	0.168	0.159	0.142	0.175	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.413	0.363	0.343	0.326	0.366	0.362	0.330	0.312	0.264	0.342	12.16	2.4787
	5	Vinyl chloride	0.356	0.307	0.320	0.288	0.268	0.277	0.227	------	------	------	0.292	14.06	2.6504
	6	Bromomethane	0.263	0.204	0.228	0.219	0.208	0.236	0.230	0.213	0.201	0.170	0.217	11.37	3.1701
	7	Chloroethane	0.271	0.249	0.235	0.221	0.218	0.241	0.235	0.218	0.208	0.169	0.227	11.96	3.2515
	8	Dichlorofluoromethane	0.646	0.578	0.618	0.617	0.612	0.602	0.581	0.593	0.554	0.459	0.586	8.78	3.3358
	9	Trichlorofluoromethane	0.383	0.333	0.344	0.330	0.326	0.350	0.354	0.333	0.309	0.263	0.332	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.016	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.162	0.159	0.173	0.169	0.167	0.168	0.158	0.164	0.147	0.126	0.159	8.56	4.1955
5	13	Acetone	------	------	0.041	0.043	0.038	0.040	0.041	0.042	0.037	0.034	0.039	7.47	4.2295
	14	1,1-Dichloroethene	0.501	0.451	0.481	0.494	0.474	0.472	0.459	0.471	0.434	0.366	0.460	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	0.014	0.014	0.015	0.014	0.016	0.016	0.014	0.013	0.015	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.494	0.458	0.495	0.509	0.504	0.508	0.493	0.507	0.473	0.408	0.485	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	0.559	0.591	0.525	0.507	0.464	0.465	0.449	0.453	0.418	0.358	0.479	14.28	5.0418
	20	Carbon disulfide	------	0.652	1.142	1.092	1.138	1.339	1.222	1.227	1.160	------	1.122	18.20	5.0729
5	21	Acrylonitrile	------	------	0.054	0.054	0.051	0.053	0.054	0.056	0.050	0.046	0.052	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	0.448	0.429	0.469	0.483	0.470	0.471	0.472	0.480	0.439	0.386	0.455	6.60	5.2756
	23	trans-1,2-Dichloroethene	0.545	0.498	0.529	0.541	0.541	0.526	0.525	0.536	0.497	0.421	0.516	7.26	5.4443
	24	Isopropyl ether (DIPE)	1.261	1.252	1.297	1.324	1.305	1.313	1.290	1.337	1.209	1.065	1.265	6.33	5.8970
	25	Vinyl acetate	------	0.509	0.497	0.448	0.432	0.488	0.505	0.486	0.437	0.381	0.465	9.23	6.0446
	26	1,1-Dichloroethane	0.649	0.608	0.660	0.665	0.669	0.650	0.633	0.657	0.609	0.518	0.632	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	0.747	0.733	0.786	0.815	0.781	0.783	0.777	0.781	0.709	0.621	0.753	7.38	6.4859
5	29	2-Butanone	0.078	0.070	0.077	0.075	0.071	0.073	0.078	0.078	0.072	0.066	0.074	5.70	6.6531
	30	2,2-Dichloropropane	0.436	0.391	0.419	0.413	0.402	0.384	0.372	0.377	0.333	0.278	0.381	12.09	6.8573
	31	cis-1,2-Dichloroethene	0.365	0.368	0.383	0.387	0.384	0.386	0.375	0.388	0.360	0.308	0.370	6.52	6.9165
	32	Chloroform	0.564	0.526	0.554	0.572	0.564	0.556	0.554	0.569	0.531	0.463	0.545	5.99	7.1444
	33	Bromochloromethane	0.268	0.256	0.282	0.288	0.284	0.287	0.281	0.292	0.266	0.232	0.274	6.81	7.3885
	34	Dibromofluoromethane	------	------	0.301	0.262	0.308	0.319	0.325	0.325	0.293	0.265	0.300	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	0.408	0.386	0.416	0.413	0.415	0.402	0.399	0.410	0.374	0.327	0.395	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	0.102	0.105	0.116	0.120	0.120	0.117	0.120	0.120	0.106	0.090	0.112	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	0.241	0.206	0.237	0.246	0.256	0.252	0.228	0.208	0.234	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	0.221	0.197	0.201	0.204	0.202	0.193	0.183	0.192	0.176	0.150	0.192	9.97	7.9774
	43	Carbon tetrachloride	0.417	0.370	0.389	0.399	0.400	0.384	0.366	0.388	0.359	0.310	0.378	7.86	8.1342
	44	1,2-Dichloroethane	0.329	0.314	0.350	0.358	0.352	0.348	0.339	0.353	0.329	0.281	0.335	6.97	8.3577
	45	Benzene	1.688	1.530	1.642	1.642	1.615	1.592	1.532	1.590	1.496	1.242	1.557	8.06	8.3872
	46	Trichloroethene	0.410	0.394	0.436	0.434	0.432	0.433	0.410	0.431	0.407	0.341	0.413	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	0.432	0.415	0.441	0.460	0.453	0.442	0.431	0.453	0.414	0.356	0.430	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	9.05	10.0511
	50	Bromodichloromethane	0.462	0.434	0.458	0.481	0.481	0.480	0.462	0.492	0.455	0.393	0.460	6.30	9.9986
	51	Dibromomethane	0.156	0.159	0.167	0.175	0.172	0.171	0.165	0.175	0.162	0.141	0.164	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	0.105	0.103	0.107	0.108	0.111	0.115	0.106	0.097	0.106	4.84	10.4883
	53	4-Methyl-2-pentanone	------	------	0.225	0.227	0.218	0.221	0.228	0.235	0.215	0.191	0.220	6.01	10.5530
	54	cis-1,3-Dichloropropene	0.593	0.551	0.598	0.605	0.603	0.605	0.579	0.617	0.567	0.491	0.581	6.39	10.8938
	55	Toluene-d8	------	------	1.355	1.148	1.343	1.365	1.324	1.350	1.232	------	1.303	6.27	11.3168
	56	Toluene	1.746	1.584	1.691	1.677	1.670	1.623	1.549	1.609	1.509	1.246	1.591	8.81	11.4516
	57	Ethyl methacrylate	------	0.289	0.317	0.323	0.320	0.328	0.317	0.332	0.302	0.262	0.310	7.22	11.7379
	58	trans-1,3-Dichloropropene	0.420	0.365	0.415	0.431	0.431	0.426	0.415	0.441	0.403	0.346	0.409	7.44	11.7504

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5	59	2-Hexanone	------	------	0.142	0.141	0.136	0.138	0.142	0.148	0.132	0.117	0.137	6.85	12.0493
	60	1,1,2-Trichloroethane	0.219	0.212	0.227	0.234	0.231	0.229	0.222	0.232	0.209	0.181	0.220	7.27	12.0286
	61	1,3-Dichloropropane	0.432	0.415	0.434	0.459	0.455	0.448	0.437	0.458	0.416	0.361	0.431	6.84	12.4740
	62	Tetrachloroethene	0.345	0.302	0.323	0.331	0.329	0.317	0.304	0.315	0.296	0.245	0.311	8.80	12.6027
	63	Dibromochloromethane	0.253	0.254	0.268	0.279	0.281	0.286	0.280	0.296	0.272	0.236	0.271	6.68	12.9578
	64	1,2-Dibromoethane	0.213	0.200	0.217	0.226	0.226	0.225	0.220	0.233	0.213	0.185	0.216	6.57	13.3247
	65	1-Chlorohexane	0.726	0.643	0.708	0.693	0.698	0.673	0.629	0.653	0.597	0.491	0.651	10.53	13.6074
	66	Chlorobenzene	0.969	0.923	0.978	1.014	1.006	0.993	0.959	0.994	0.911	0.774	0.952	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	0.333	0.285	0.318	0.316	0.322	0.320	0.309	0.324	0.292	0.246	0.307	8.36	14.1681
	68	Ethylbenzene	1.906	1.740	1.888	1.850	1.892	1.837	1.743	1.827	1.636	------	1.813	4.94	14.1840
2	69	m-Xylene & p-Xylene	1.370	1.293	1.375	1.397	1.380	1.360	1.272	1.326	1.215	------	1.332	4.55	14.3254
	70	o-Xylene	1.357	1.278	1.354	1.396	1.368	1.368	1.273	1.355	1.229	1.028	1.301	8.43	15.1491
	71	Styrene	0.986	0.891	0.980	1.028	1.025	1.054	0.998	1.052	0.970	0.817	0.980	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	4.732	4.356	4.695	4.727	4.630	4.510	4.270	4.517	4.103	3.382	4.392	9.38	15.8342
	74	Bromoform	0.321	0.322	0.370	0.373	0.391	0.391	0.391	0.420	0.383	0.338	0.370	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	0.739	0.720	0.738	0.753	0.738	0.724	0.711	0.757	0.685	0.597	0.716	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	1.053	1.178	1.200	1.191	1.219	1.116	0.981	1.134	7.80	16.3184
	77	1,2,3-Trichloropropane	0.207	0.230	0.194	0.184	0.176	0.172	0.165	0.178	0.158	0.139	0.180	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	0.186	0.185	0.189	0.192	0.190	0.203	0.180	0.154	0.185	7.64	16.5844
	79	n-Propylbenzene	6.204	5.820	6.195	6.202	6.164	5.995	5.718	5.999	5.538	4.482	5.832	9.03	16.6110
	80	Bromobenzene	0.908	0.890	0.928	0.963	0.948	0.942	0.918	0.986	0.911	0.788	0.918	5.85	16.6998
	81	1,3,5-Trimethylbenzene	3.645	3.404	3.739	3.703	3.627	3.548	3.415	3.580	3.261	2.643	3.456	9.31	16.9232
	82	2-Chlorotoluene	3.815	3.635	3.729	3.719	3.598	3.513	3.397	3.781	3.484	2.824	3.549	8.13	16.9572
	83	4-Chlorotoluene	3.230	3.017	3.196	3.224	3.220	3.238	3.115	3.091	2.839	2.389	3.056	8.71	17.0504
	84	tert-Butylbenzene	0.844	0.786	0.828	0.839	0.829	0.802	0.767	0.809	0.733	0.614	0.785	8.82	17.6201
	85	1,2,4-Trimethylbenzene	3.533	3.347	3.577	3.601	3.578	3.567	3.370	3.555	3.294	2.727	3.415	7.81	17.6941
	86	sec-Butylbenzene	5.123	4.786	5.225	5.202	5.174	4.913	4.651	4.871	4.491	3.709	4.814	9.57	18.0196
	87	p-Isopropyltoluene	3.979	3.611	3.929	3.891	3.853	3.819	3.587	3.763	3.474	2.843	3.675	9.11	18.2563
	88	1,3-Dichlorobenzene	1.946	1.796	1.874	1.924	1.942	1.912	1.854	1.947	1.811	1.539	1.854	6.67	18.4161
	89	1,4-Dichlorobenzene	1.830	1.738	1.833	1.848	1.859	1.843	1.789	1.861	1.744	1.473	1.782	6.58	18.5863
	90	n-Butylbenzene	4.300	3.827	4.137	4.049	4.052	3.985	3.791	3.927	3.557	2.906	3.853	10.13	18.9059
	91	1,2-Dichlorobenzene	1.510	1.494	1.568	1.597	1.566	1.560	1.496	1.571	1.451	1.251	1.506	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	0.096	0.091	0.082	0.089	0.092	0.091	0.096	0.087	0.081	0.089	5.97	20.1931
	93	1,2,4-Trichlorobenzene	0.993	0.868	0.958	0.942	0.949	0.933	0.919	0.941	0.881	0.781	0.916	6.51	21.3340
	94	Hexachlorobutadiene	0.611	0.586	0.633	0.604	0.620	0.606	0.570	0.594	0.548	0.478	0.585	7.65	21.5145
	95	Naphthalene	1.080	0.945	1.020	1.018	1.045	1.048	1.105	1.177	1.121	1.049	1.061	6.04	21.7024
	96	1,2,3-Trichlorobenzene	0.837	0.754	0.749	0.743	0.747	0.732	0.717	0.736	0.690	0.623	0.733	7.34	22.0382

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 18.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
20	Carbon disulfide	-0.01823	1.21064	0.9987

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INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	110	99	107	102	99	109	106	96	91	81	6.7	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	121	106	100	95	107	106	96	91	77	8.9	12.16	2.4787
	5	Vinyl chloride	122	105	110	99	92	95	78	------	------	------	10.5	14.06	2.6504
	6	Bromomethane	121	94	105	101	96	109	106	98	93	78	8.3	11.37	3.1701
	7	Chloroethane	119	110	104	97	96	106	104	96	92	74	8.7	11.96	3.2515
	8	Dichlorofluoromethane	110	99	105	105	104	103	99	101	95	78	5.9	8.78	3.3358
	9	Trichlorofluoromethane	115	100	104	99	98	105	107	100	93	79	6.2	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	112	106	106	100	100	94	87	6.3	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	102	100	109	106	105	106	99	103	92	79	6	8.56	4.1955
5	13	Acetone	------	------	105	110	97	103	105	108	95	87	6.4	7.47	4.2295
	14	1,1-Dichloroethene	109	98	105	107	103	103	100	102	94	80	5.7	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	93	93	100	93	107	107	93	87	6.7	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	102	94	102	105	104	105	102	105	98	84	4.8	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	117	123	110	106	97	97	94	95	87	75	11.1	14.28	5.0418
	20	Carbon disulfide	------	84	109	98	97	112	102	102	96	------	6.2	8.7	5.0729
5	21	Acrylonitrile	------	------	104	104	98	102	104	108	96	88	4.8	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	98	94	103	106	103	104	104	105	96	85	5.1	6.60	5.2756
	23	trans-1,2-Dichloroethene	106	97	103	105	105	102	102	104	96	82	5.1	7.26	5.4443
	24	Isopropyl ether (DIPE)	100	99	103	105	103	104	102	106	96	84	4.3	6.33	5.8970
	25	Vinyl acetate	------	109	107	96	93	105	109	105	94	82	7.7	9.23	6.0446
	26	1,1-Dichloroethane	103	96	104	105	106	103	100	104	96	82	5.1	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	99	97	104	108	104	104	103	104	94	82	5.4	7.38	6.4859
5	29	2-Butanone	105	95	104	101	96	99	105	105	97	89	4.6	5.70	6.6531
	30	2,2-Dichloropropane	114	103	110	108	106	101	98	99	87	73	8.5	12.09	6.8573
	31	cis-1,2-Dichloroethene	99	99	104	105	104	104	101	105	97	83	4.4	6.52	6.9165
	32	Chloroform	103	97	102	105	103	102	102	104	97	85	4.3	5.99	7.1444
	33	Bromochloromethane	98	93	103	105	104	105	103	107	97	85	5.3	6.81	7.3885
	34	Dibromofluoromethane	------	------	100	87	103	106	108	108	98	88	6.6	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	103	98	105	105	105	102	101	104	95	83	5	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	91	94	104	107	107	104	107	107	95	80	7.7	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	103	88	101	105	109	108	97	89	6.5	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	115	103	105	106	105	101	95	100	92	78	6.9	9.97	7.9774
	43	Carbon tetrachloride	110	98	103	106	106	102	97	103	95	82	5.7	7.86	8.1342
	44	1,2-Dichloroethane	98	94	104	107	105	104	101	105	98	84	5.3	6.97	8.3577
	45	Benzene	108	98	105	105	104	102	98	102	96	80	5.5	8.06	8.3872
	46	Trichloroethene	99	95	106	105	105	105	99	104	99	83	4.9	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	100	97	103	107	105	103	100	105	96	83	4.8	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	100	100	100	100	200	100	100	14.3	9.05	10.0511
	50	Bromodichloromethane	100	94	100	105	105	104	100	107	99	85	4.3	6.30	9.9986
	51	Dibromomethane	95	97	102	107	105	104	101	107	99	86	4.8	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	99	97	101	102	105	108	100	92	3.5	4.84	10.4883
	53	4-Methyl-2-pentanone	------	------	102	103	99	100	104	107	98	87	4.1	6.01	10.5530
	54	cis-1,3-Dichloropropene	102	95	103	104	104	104	100	106	98	85	4.7	6.39	10.8938
	55	Toluene-d8	------	------	104	88	103	105	102	104	95	------	4.9	6.27	11.3168
	56	Toluene	110	100	106	105	105	102	97	101	95	78	5.9	8.81	11.4516
	57	Ethyl methacrylate	------	93	102	104	103	106	102	107	97	85	5.5	7.22	11.7379
	58	trans-1,3-Dichloropropene	103	89	101	105	105	104	101	108	99	85	5.6	7.44	11.7504

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5	59	2-Hexanone	------	------	104	103	99	101	104	108	96	85	4.7	6.85	12.0493
	60	1,1,2-Trichloroethane	100	96	103	106	105	104	101	105	95	82	5.2	7.27	12.0286
	61	1,3-Dichloropropane	100	96	101	106	106	104	101	106	97	84	4.8	6.84	12.4740
	62	Tetrachloroethene	111	97	104	106	106	102	98	101	95	79	6.1	8.80	12.6027
	63	Dibromochloromethane	93	94	99	103	104	106	103	109	100	87	5.2	6.68	12.9578
	64	1,2-Dibromoethane	99	93	100	105	105	104	102	108	99	86	4.8	6.57	13.3247
	65	1-Chlorohexane	112	99	109	106	107	103	97	100	92	75	7.5	10.53	13.6074
	66	Chlorobenzene	102	97	103	107	106	104	101	104	96	81	5.2	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	108	93	104	103	105	104	101	106	95	80	6.2	8.36	14.1681
	68	Ethylbenzene	105	96	104	102	104	101	96	101	90	------	3.9	4.94	14.1840
2	69	m-Xylene & p-Xylene	103	97	103	105	104	102	95	100	91	------	3.7	4.55	14.3254
	70	o-Xylene	104	98	104	107	105	105	98	104	94	79	6.1	8.43	15.1491
	71	Styrene	101	91	100	105	105	108	102	107	99	83	5.4	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	108	99	107	108	105	103	97	103	93	77	6.6	9.38	15.8342
	74	Bromoform	87	87	100	101	106	106	106	114	104	91	7	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	103	101	103	105	103	101	99	106	96	83	4.4	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	93	104	106	105	107	98	87	6.3	7.80	16.3184
	77	1,2,3-Trichloropropane	115	128	108	102	98	96	92	99	88	77	10.4	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	101	100	102	104	103	110	97	83	4.8	7.64	16.5844
	79	n-Propylbenzene	106	100	106	106	106	103	98	103	95	77	6.1	9.03	16.6110
	80	Bromobenzene	99	97	101	105	103	103	100	107	99	86	3.8	5.85	16.6998
	81	1,3,5-Trimethylbenzene	105	98	108	107	105	103	99	104	94	76	6.4	9.31	16.9232
	82	2-Chlorotoluene	107	102	105	105	101	99	96	107	98	80	5.5	8.13	16.9572
	83	4-Chlorotoluene	106	99	105	105	105	106	102	101	93	78	6	8.71	17.0504
	84	tert-Butylbenzene	108	100	105	107	106	102	98	103	93	78	6.2	8.82	17.6201
	85	1,2,4-Trimethylbenzene	103	98	105	105	105	104	99	104	96	80	5.4	7.81	17.6941
	86	sec-Butylbenzene	106	99	109	108	107	102	97	101	93	77	6.7	9.57	18.0196
	87	p-Isopropyltoluene	108	98	107	106	105	104	98	102	95	77	6.4	9.11	18.2563
	88	1,3-Dichlorobenzene	105	97	101	104	105	103	100	105	98	83	4.5	6.67	18.4161
	89	1,4-Dichlorobenzene	103	98	103	104	104	103	100	104	98	83	4.4	6.58	18.5863
	90	n-Butylbenzene	112	99	107	105	105	103	98	102	92	75	6.9	10.13	18.9059
	91	1,2-Dichlorobenzene	100	99	104	106	104	104	99	104	96	83	4.4	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	108	102	92	100	103	102	108	98	91	4.7	5.97	20.1931
	93	1,2,4-Trichlorobenzene	108	95	105	103	104	102	100	103	96	85	4.8	6.51	21.3340
	94	Hexachlorobutadiene	104	100	108	103	106	104	97	102	94	82	5.4	7.65	21.5145
	95	Naphthalene	102	89	96	96	98	99	104	111	106	99	4.5	6.04	21.7024
	96	1,2,3-Trichlorobenzene	114	103	102	101	102	100	98	100	94	85	4.6	7.34	22.0382

S.a
12/16/10

1038

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 118186

Lab File ID: RBB355 — BFB Injection Date : 02/16/11

Instrument ID: T003 — BFB Injection Time : 15:06

GC Column:RTX502.2ID:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.55
75	30.0 - 60.0% of mass 95	55.10
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.34
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	64.87
175	5.0 - 9.0% of mass 174	5.08(7.8)1
176	95.0 - 101.0% of mass 174	61.82(95.3)1
177	5.0 - 9.0% of mass 176	3.96(6.4)2

1-Value is % mass 174 — 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V003B161	RBB356	02/16/11	15:43
2	VSTD0.5	V003B162	RBB357	02/16/11	16:18
3	VSTD01	V003B163	RBB358	02/16/11	16:54
4	VSTD02	V003B164	RBB359	02/16/11	17:32
5	VSTD05	V003B165	RBB360	02/16/11	18:08
6	VSTD010	V003B166	RBB361	02/16/11	18:45
7	VSTD020	V003B167	RBB362	02/16/11	19:23
8	VSTD030	V003B168	RBB363	02/16/11	20:00
9	VSTD040	V003B169	RBB364	02/16/11	20:38
10	VSTD050	V003B1610	RBB365	02/16/11	21:15
11	VSTD100	V003B1611	RBB366	02/16/11	21:52
12	VSTD010	IV003B161	RBB369	02/16/11	23:44

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T003
Beginning DateTime :02/16/11 15:43
Spike Units :PPB
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/16/11 21:52
HPChem Method :V003B16

M	IDX	Parameters	.3 15:43 RBB356	.5 16:18 RBB357	1 16:54 RBB358	2 17:32 RBB359	5 18:08 RBB360	10 18:45 RBB361	20 19:23 RBB362	30 20:00 RBB363	40 20:38 RBB364	50 21:15 RBB365	100 21:52 RBB366	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	1	0	13.4325
	2	Dichlorodifluoromethane	0.353	0.395	0.413	0.427	0.419	0.470	0.442	0.411	0.456	0.466	0.416	0.424	7.98	3.5871
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.356	0.386	0.390	0.428	0.469	0.462	0.436	0.478	0.491	0.440	0.434	10.18	4.0811
	5	Vinyl chloride	0.328	0.352	0.341	0.369	0.371	0.413	0.401	0.379	0.430	0.442	0.393	0.383	9.42	4.3411
	6	Bromomethane	0.238	0.216	0.263	0.244	0.284	0.308	0.300	0.291	0.321	0.337	0.305	0.283	13.37	5.2860
	7	Chloroethane	0.121	0.140	0.158	0.154	0.173	0.189	0.176	0.171	0.193	0.195	0.172	0.168	13.61	5.4552
	8	Dichlorofluoromethane	------	0.518	0.556	0.641	0.667	0.674	0.697	0.738	0.810	0.824	0.772	0.690	14.68	5.5359
	9	Trichlorofluoromethane	0.388	0.450	0.496	0.514	0.533	0.598	0.576	0.548	0.604	0.618	0.560	0.535	13.07	6.0048
5	10	Acrolein	------	------	------	0.008	0.008	0.007	0.008	0.009	0.010	0.011	0.010	0.009	14.42	6.8843
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	0.209	0.212	0.212	0.219	0.218	0.211	0.213	0.216	0.236	0.235	0.209	0.217	4.44	6.9415
5	12	Acetone	------	0.049	0.041	0.039	0.040	0.036	0.037	0.040	0.044	0.047	0.043	0.042	9.70	7.0086
	13	1,1-Dichloroethene	0.620	0.591	0.644	0.647	0.643	0.635	0.612	0.642	0.682	0.677	0.627	0.638	4.13	7.3382
5	14	tert-Butyl alcohol	------	------	0.010	0.011	0.010	0.010	0.011	0.012	0.014	0.014	0.013	0.012	14.23	7.4546
10	15	Acetonitrile	------	------	------	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	14.88	7.6065
	16	Methyl acetate	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.584	0.553	0.595	0.576	0.620	0.599	0.608	0.628	0.690	0.696	0.619	0.615	7.16	8.0516
	18	Methylene chloride	0.469	0.428	0.439	0.423	0.429	0.407	0.409	0.420	0.466	0.477	0.429	0.436	5.52	8.4252
	19	Carbon disulfide	0.948	0.955	1.030	1.061	1.136	0.999	1.093	1.178	1.293	1.293	1.179	1.106	11.02	8.5024
5	20	Acrylonitrile	0.027	0.026	0.028	0.033	0.033	0.033	0.033	0.035	0.039	0.040	0.038	0.033	14.37	8.6621
	21	tert-Butyl methyl ether (MTBE)	0.419	0.408	0.419	0.465	0.452	0.443	0.455	0.470	0.538	0.545	0.512	0.466	10.15	8.7054
	22	trans-1,2-Dichloroethene	0.529	0.551	0.585	0.617	0.596	0.603	0.600	0.621	0.678	0.684	0.598	0.606	7.62	9.0546
	23	Isopropyl ether (DIPE)	1.001	0.994	1.023	1.136	1.065	1.088	1.097	1.139	1.267	1.255	1.162	1.111	8.30	9.6625
	24	Vinyl acetate	------	------	0.292	0.307	0.306	0.342	0.334	0.318	0.355	0.367	0.323	0.327	7.48	9.9083
	25	1,1-Dichloroethane	0.585	0.624	0.697	0.702	0.682	0.681	0.684	0.720	0.776	0.775	0.697	0.693	8.06	9.9427
5	26	2-Butanol	------	------	0.007	0.007	0.008	0.007	0.008	0.009	------	------	------	0.008	11.58	10.3494
	27	tert-Butyl ethyl ether (ETBE)	0.665	0.680	0.697	0.786	0.755	0.736	0.756	0.799	0.894	0.912	0.853	0.776	10.75	10.4923
5	28	2-Butanone	0.067	0.063	0.056	0.060	0.060	0.061	0.059	0.063	0.069	0.072	0.068	0.063	7.90	10.7535
	29	2,2-Dichloropropane	0.356	0.352	0.373	0.370	0.384	0.371	0.356	0.360	0.375	0.376	0.298	0.361	6.44	11.0622
	30	cis-1,2-Dichloroethene	0.310	0.352	0.378	0.391	0.396	0.380	0.388	0.414	0.439	0.438	0.402	0.390	9.43	11.1583
	31	Chloroform	0.747	0.767	0.818	0.836	0.834	0.803	0.814	0.841	0.898	0.931	0.832	0.829	6.25	11.4575
	32	Bromochloromethane	0.278	0.266	0.278	0.314	0.310	0.288	0.298	0.314	0.337	0.349	0.316	0.304	8.43	11.7823
	33	Tetrahydrofuran	------	0.038	0.041	0.042	0.033	0.032	0.031	0.033	0.038	0.038	0.037	0.036	10.17	11.8272
	34	Dibromofluoromethane	0.376	0.371	0.407	0.425	0.450	0.408	0.434	0.448	0.469	0.488	0.445	0.429	8.48	11.8690
	35	1,1,1-Trichloroethane	0.579	0.586	0.625	0.643	0.686	0.670	0.679	0.699	0.765	0.775	0.656	0.670	9.37	12.2169
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	tert-Amyl methyl ether (TAME)	0.118	0.116	0.115	0.135	0.124	0.122	0.125	0.135	0.150	0.155	0.145	0.131	10.88	12.6555
	38	1,2-Dichloroethane-d4	0.397	0.394	0.410	0.423	0.432	0.391	0.409	0.425	0.453	0.468	0.423	0.421	5.74	12.7800
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	1	0	18.5494
	40	1,1-Dichloropropene	0.185	0.199	0.199	0.194	0.198	0.191	0.194	0.199	0.210	0.217	0.203	0.199	4.41	12.4958
	41	Carbon tetrachloride	0.582	0.609	0.681	0.679	0.716	0.725	0.718	0.756	0.808	0.848	0.767	0.717	10.99	12.6974
	42	1,2-Dichloroethane	0.488	0.501	0.492	0.557	0.523	0.513	0.522	0.546	0.587	0.619	0.574	0.538	7.83	12.9506
	43	Benzene	1.687	1.600	1.603	1.586	1.549	1.473	1.487	1.582	1.625	1.709	------	1.590	4.74	12.9988
	44	Trichloroethene	0.414	0.423	0.429	0.419	0.424	0.416	0.417	0.448	0.464	0.486	0.451	0.436	5.43	14.0498
	45	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	46	1,2-Dichloropropane	0.362	0.359	0.373	0.393	0.387	0.373	0.365	0.398	0.417	0.430	0.403	0.387	6.05	14.3435
20	47	1,4-Dioxane	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.76	14.7444
	48	Bromodichloromethane	0.492	0.484	0.572	0.612	0.616	0.618	0.624	0.675	0.720	0.764	0.704	0.626	14.13	14.7537
	49	Dibromomethane	0.195	0.214	0.222	0.232	0.230	0.222	0.227	0.242	0.256	0.270	0.255	0.233	9.21	14.8661
	50	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	51	4-Methyl-2-pentanone	0.171	0.186	0.173	0.187	0.191	0.185	0.190	0.195	0.220	0.229	0.217	0.195	9.79	15.2112
	52	cis-1,3-Dichloropropene	0.489	0.475	0.508	0.551	0.564	0.585	0.582	0.632	0.671	0.698	0.646	0.582	12.72	15.6201
	53	Toluene-d8	1.391	1.491	1.507	1.570	1.552	1.415	1.458	1.520	1.600	1.647	------	1.515	5.31	16.0483
	54	Toluene	1.621	1.694	1.768	1.778	1.759	1.707	1.669	1.784	1.864	1.924	------	1.757	5.15	16.1809
	55	Ethyl methacrylate	0.218	0.219	0.229	0.277	0.266	0.265	0.268	0.284	0.302	0.325	------	0.265	13.25	16.3179
	56	trans-1,3-Dichloropropene	0.327	0.341	0.376	0.458	0.450	0.460	0.467	------	------	------	------	0.411	14.83	16.4250
5	57	2-Hexanone	0.114	0.119	0.113	0.122	0.123	0.126	0.128	0.138	0.151	0.157	0.145	0.131	11.38	16.6259
	58	1,1,2-Trichloroethane	0.204	0.207	0.208	0.228	0.218	0.214	0.211	0.225	0.244	0.255	0.232	0.222	7.35	16.7111

SW
2/18/11

59	1,3-Dichloropropane	0.368	0.386	0.399	0.437	0.407	0.392	0.391	0.425	0.451	0.474	0.427	0.414	7.64	17.1132
60	Tetrachloroethene	0.388	0.435	0.426	0.426	0.412	0.407	0.402	0.420	0.446	0.454	0.418	0.421	4.57	17.2702
61	Dibromochloromethane	------	0.235	0.242	0.290	0.301	0.315	0.326	------	------	------	------	0.285	13.38	17.6283
62	1,2-Dibromoethane	0.210	0.213	0.238	0.257	0.253	0.256	0.257	0.273	0.291	0.305	0.281	0.258	11.52	17.9579
63	1-Chlorohexane	0.718	0.767	0.746	0.780	0.804	0.766	0.748	0.780	0.822	0.830	0.733	0.772	4.61	18.0621
64	Chlorobenzene	0.979	0.966	1.003	1.030	1.023	0.988	0.971	1.040	1.086	1.112	1.030	1.021	4.58	18.6158
65	1,1,1,2-Tetrachloroethane	0.295	0.316	0.354	0.366	0.380	0.363	0.375	0.404	0.426	0.432	0.401	0.374	11.37	18.6537
66	Ethylbenzene	2.016	2.188	2.208	2.288	2.327	2.211	2.176	2.321	2.416	2.408	------	2.256	5.37	18.6438
2 67	m-Xylene & p-Xylene	1.685	1.737	1.734	1.799	1.759	1.710	1.702	1.793	------	------	------	1.740	2.39	18.7592
68	o-Xylene	1.596	1.659	1.714	1.770	1.738	1.665	1.663	1.749	1.822	1.838	------	1.721	4.47	19.4896
69	Styrene	0.943	0.989	1.057	1.123	1.136	1.104	1.080	1.179	1.192	1.223	1.100	1.102	7.64	19.5376
70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	1	0	23.1100
71	Isopropylbenzene	4.739	4.839	4.805	5.034	5.033	4.804	4.739	5.055	5.462	5.393	------	4.990	5.22	20.0331
72	Bromoform	------	0.260	0.296	0.362	0.383	0.401	0.427	0.478	------	------	------	0.373	20.08	20.1964
73	1,1,2,2-Tetrachloroethane	0.635	0.569	0.613	0.672	0.655	0.612	0.615	0.655	0.748	0.759	0.695	0.657	8.92	20.3187
74	4-Bromofluorobenzene	1.725	1.542	1.488	1.499	1.546	1.385	1.410	1.511	1.641	1.635	1.534	1.538	6.50	20.4892
75	1,2,3-Trichloropropane	0.128	0.147	0.148	0.160	0.152	0.145	0.152	0.159	0.186	0.188	0.171	0.158	11.35	20.5664
76	trans-1,4-Dichloro-2-butene	------	------	0.089	0.113	0.126	0.142	0.163	------	------	------	------	0.127	22.13	20.6088
77	n-Propylbenzene	6.515	6.989	6.737	7.026	7.158	6.828	6.696	7.100	7.662	7.117	------	6.983	4.56	20.6838
78	Bromobenzene	0.982	1.062	1.101	1.081	1.087	1.038	1.040	1.114	1.243	1.248	1.163	1.105	7.55	20.8764
79	1,3,5-Trimethylbenzene	3.934	4.169	4.240	4.428	4.325	4.195	4.156	4.353	4.664	4.649	------	4.311	5.24	20.9176
80	2-Chlorotoluene	4.277	4.429	4.480	3.984	4.657	3.831	4.069	4.125	4.489	4.452	------	4.279	6.21	21.0501
81	4-Chlorotoluene	3.181	3.265	3.207	3.889	3.184	3.673	3.330	3.781	4.017	4.027	------	3.555	10.04	21.1067
82	tert-Butylbenzene	0.670	0.703	0.705	0.762	0.734	0.715	0.697	0.744	0.800	0.782	0.713	0.729	5.39	21.5235
83	1,2,4-Trimethylbenzene	4.049	3.947	4.067	4.124	4.174	4.016	3.945	4.157	4.452	4.388	------	4.132	4.15	21.5862
84	sec-Butylbenzene	5.201	5.677	5.280	5.565	5.676	5.399	5.314	5.554	5.941	5.849	------	5.546	4.45	21.8646
85	p-Isopropyltoluene	3.900	4.005	3.826	4.153	4.183	4.038	4.081	4.171	4.393	4.339	------	4.109	4.33	22.0612
86	1,3-Dichlorobenzene	1.704	1.778	1.801	1.887	1.901	1.825	1.842	1.928	2.047	2.047	1.880	1.876	5.60	22.3438
87	1,4-Dichlorobenzene	1.607	1.672	1.682	1.789	1.756	1.728	1.744	1.831	1.963	1.927	1.765	1.769	5.99	22.5090
88	n-Butylbenzene	4.319	4.407	4.285	4.813	4.709	4.907	4.788	4.876	5.115	5.035	------	4.725	6.21	22.7342
89	1,2-Dichlorobenzene	1.402	1.481	1.435	1.515	1.490	1.438	1.440	1.522	1.613	1.611	1.482	1.493	4.60	23.1574
90	1,2-Dibromo-3-chloropropane	------	------	0.061	0.070	0.072	0.073	0.082	0.086	------	------	------	0.074	12.09	24.4483
91	1,2,4-Trichlorobenzene	0.707	0.712	0.675	0.801	0.821	0.854	0.859	0.844	0.895	0.932	0.915	0.820	10.68	26.0529
92	Hexachlorobutadiene	0.710	0.747	0.707	0.793	0.775	0.777	0.757	0.722	0.765	0.801	0.739	0.754	4.24	26.2614
93	Naphthalene	1.038	0.877	0.771	0.910	0.893	0.902	0.967	0.971	1.047	1.109	1.080	0.960	10.58	26.6472
94	1,2,3-Trichlorobenzene	0.502	0.561	0.500	0.621	0.597	0.629	0.639	0.621	0.677	0.706	0.671	0.611	10.99	27.1251

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.9 Max_%RSD : 22.1

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
72	Bromoform	-0.01432	0.45197	0.9974
76	trans-1,4-Dichloro-2-butene	-0.00897	0.15968	0.9971

2/18/11 SM

1011

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :T003
Beginning DateTime :02/16/11 15:43
Spike Units :PPB
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/16/11 21:52
HPChem Method :V003B16

M	IDX	Parameters	.3 15:43 RBB356	.5 16:18 RBB357	1 16:54 RBB358	2 17:32 RBB359	5 18:08 RBB360	10 18:45 RBB361	20 19:23 RBB362	30 20:00 RBB363	40 20:38 RBB364	50 21:15 RBB365	100 21:52 RBB366	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	1	0	13.4325
	2	Dichlorodifluoromethane	83	93	97	101	99	111	104	97	108	110	98	6	7.98	3.5871
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	82	89	90	99	108	106	100	110	113	101	8	10.18	4.0811
	5	Vinyl chloride	86	92	89	96	97	108	105	99	112	115	103	7.6	9.42	4.3411
	6	Bromomethane	84	76	93	86	100	109	106	103	113	119	108	10.8	13.37	5.2860
	7	Chloroethane	72	83	94	92	103	112	105	102	115	116	102	10.4	13.61	5.4552
	8	Dichlorofluoromethane	------	75	81	93	97	98	101	107	117	119	112	11.4	14.68	5.5359
	9	Trichlorofluoromethane	73	84	93	96	100	112	108	102	113	116	105	10	13.07	6.0048
5	10	Acrolein	------	------	------	89	89	78	89	100	111	122	111	12.5	14.42	6.8843
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	96	98	98	101	100	97	98	100	109	108	96	3.2	4.44	6.9415
5	12	Acetone	------	117	98	93	95	86	88	95	105	112	102	8.1	9.70	7.0086
	13	1,1-Dichloroethene	97	93	101	101	101	100	96	101	107	106	98	3	4.13	7.3382
5	14	tert-Butyl alcohol	------	------	83	92	83	83	92	100	117	117	108	12	14.23	7.4546
10	15	Acetonitrile	------	------	------	100	100	67	67	67	100	100	100	12.5	14.88	7.6065
	16	Methyl acetate	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	95	90	97	94	101	97	99	102	112	113	101	5.2	7.16	8.0516
	18	Methylene chloride	108	98	101	97	98	93	94	96	107	109	98	4.5	5.52	8.4252
	19	Carbon disulfide	86	86	93	96	103	90	99	107	117	117	107	9	11.02	8.5024
5	20	Acrylonitrile	82	79	85	100	100	100	100	106	118	121	115	10.5	14.37	8.6621
	21	tert-Butyl methyl ether (MTBE)	90	88	90	100	97	95	98	101	115	117	110	7.8	10.15	8.7054
	22	trans-1,2-Dichloroethene	87	91	97	102	98	100	99	102	112	113	99	5.3	7.62	9.0546
	23	Isopropyl ether (DIPE)	90	89	92	102	96	98	99	103	114	113	105	6.6	8.30	9.6625
	24	Vinyl acetate	------	------	89	94	94	105	102	97	109	112	99	6.1	7.48	9.9083
	25	1,1-Dichloroethane	84	90	101	101	98	98	99	104	112	112	101	5.5	8.06	9.9427
5	26	2-Butanol	------	------	87	87	100	87	100	112	------	------	------	8.3	11.58	10.3494
	27	tert-Butyl ethyl ether (ETBE)	86	88	90	101	97	95	97	103	115	118	110	8.6	10.75	10.4923
5	28	2-Butanone	106	100	89	95	95	97	94	100	110	114	108	6.2	7.90	10.7535
	29	2,2-Dichloropropane	99	98	103	102	106	103	99	100	104	104	83	4.2	6.44	11.0622
	30	cis-1,2-Dichloroethene	79	90	97	100	102	97	99	106	113	112	103	6.6	9.43	11.1583
	31	Chloroform	90	93	99	101	101	97	98	101	108	112	100	4.3	6.25	11.4575
	32	Bromochloromethane	91	88	91	103	102	95	98	103	111	115	104	6.8	8.43	11.7823
	33	Tetrahydrofuran	------	106	114	117	92	89	86	92	106	106	103	9.2	10.17	11.8272
	34	Dibromofluoromethane	88	86	95	99	105	95	101	104	109	114	104	6.7	8.48	11.8690
	35	1,1,1-Trichloroethane	86	87	93	96	102	100	101	104	114	116	98	7	9.37	12.2169
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	tert-Amyl methyl ether (TAME)	90	89	88	103	95	93	95	103	115	118	111	9.1	10.88	12.6555
	38	1,2-Dichloroethane-d4	94	94	97	100	103	93	97	101	108	111	100	4.4	5.74	12.7800
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	1	0	18.5494
	40	1,1-Dichloropropene	93	100	100	97	99	96	97	100	106	109	102	3	4.41	12.4958
	41	Carbon tetrachloride	81	85	95	95	100	101	100	105	113	118	107	8.1	10.99	12.6974
	42	1,2-Dichloroethane	91	93	91	104	97	95	97	101	109	115	107	6.5	7.83	12.9506
	43	Benzene	106	101	101	100	97	93	94	99	102	107	------	3.4	4.74	12.9988
	44	Trichloroethene	95	97	98	96	97	95	96	103	106	111	103	4.5	5.43	14.0498
	45	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	46	1,2-Dichloropropane	94	93	96	102	100	96	94	103	108	111	104	4.9	6.05	14.3435
20	47	1,4-Dioxane	------	------	100	100	100	100	100	100	100	100	100	0	14.76	14.7444
	48	Bromodichloromethane	79	77	91	98	98	99	100	108	115	122	112	10.5	14.13	14.7537
	49	Dibromomethane	84	92	95	100	99	95	97	104	110	116	109	7	9.21	14.8661
	50	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	51	4-Methyl-2-pentanone	88	95	89	96	98	95	97	100	113	117	111	7.6	9.79	15.2112
	52	cis-1,3-Dichloropropene	84	82	87	95	97	101	100	109	115	120	111	10.1	12.72	15.6201
	53	Toluene-d8	92	98	99	104	102	93	96	100	106	109	------	4.1	5.31	16.0483
	54	Toluene	92	96	101	101	100	97	95	102	106	110	------	3.8	5.15	16.1809
	55	Ethyl methacrylate	82	83	86	105	100	100	101	107	114	123	------	9.8	13.25	16.3179
	56	trans-1,3-Dichloropropene	80	83	91	111	109	112	114	------	------	------	------	13.2	14.83	16.4250
5	57	2-Hexanone	87	91	86	93	94	96	98	105	115	120	111	9.6	11.38	16.6259
	58	1,1,2-Trichloroethane	92	93	94	103	98	96	95	101	110	115	105	5.9	7.35	16.7111
	59	1,3-Dichloropropane	89	93	96	106	98	95	94	103	109	114	103	6.3	7.64	17.1132

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60	Tetrachloroethene	92	103	101	101	98	97	95	100	106	108	99	3.5	4.57	17.2702
61	Dibromochloromethane	------	82	85	102	106	111	114	------	------	------	------	10.8	13.38	17.6283
62	1,2-Dibromoethane	81	83	92	100	98	99	100	106	113	118	109	8.5	11.52	17.9579
63	1-Chlorohexane	93	99	97	101	104	99	97	101	106	108	95	3.7	4.61	18.0621
64	Chlorobenzene	96	95	98	101	100	97	95	102	106	109	101	3.5	4.58	18.6158
65	1,1,1,2-Tetrachloroethane	79	84	95	98	102	97	100	108	114	116	107	8.5	11.37	18.6537
66	Ethylbenzene	89	97	98	101	103	98	96	103	107	107	------	4.3	5.37	18.6438
2 67	m-Xylene & p-Xylene	97	100	100	103	101	98	98	103	------	------	------	1.9	2.39	18.7592
68	o-Xylene	93	96	100	103	101	97	97	102	106	107	------	3.6	4.47	19.4896
69	Styrene	86	90	96	102	103	100	98	107	108	111	100	5.7	7.64	19.5376
70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	1	0	23.1100
71	Isopropylbenzene	95	97	96	101	101	96	95	101	109	108	------	4.1	5.22	20.0331
72	Bromoform	------	121	97	96	91	92	96	107	------	------	------	8	10.5	20.1964
73	1,1,2,2-Tetrachloroethane	97	87	93	102	100	93	94	100	114	116	106	6.8	8.92	20.3187
74	4-Bromofluorobenzene	112	100	97	97	101	90	92	98	107	106	100	4.7	6.50	20.4892
75	1,2,3-Trichloropropane	81	93	94	101	96	92	96	101	118	119	108	8.6	11.35	20.5664
76	trans-1,4-Dichloro-2-butene	------	------	112	99	90	94	105	------	------	------	------	6.8	8.7	20.6088
77	n-Propylbenzene	93	100	96	101	103	98	96	102	110	102	------	3.3	4.56	20.6838
78	Bromobenzene	89	96	100	98	98	94	94	101	112	113	105	5.7	7.55	20.8764
79	1,3,5-Trimethylbenzene	91	97	98	103	100	97	96	101	108	108	------	4	5.24	20.9176
80	2-Chlorotoluene	100	104	105	93	109	90	95	96	105	104	------	5.2	6.21	21.0501
81	4-Chlorotoluene	89	92	90	109	90	103	94	106	113	113	------	9.1	10.04	21.1067
82	tert-Butylbenzene	92	96	97	105	101	98	96	102	110	107	98	4.3	5.39	21.5235
83	1,2,4-Trimethylbenzene	98	96	98	100	101	97	95	101	108	106	------	3.1	4.15	21.5862
84	sec-Butylbenzene	94	102	95	100	102	97	96	100	107	105	------	3.6	4.45	21.8646
85	p-Isopropyltoluene	95	97	93	101	102	98	99	102	107	106	------	3.4	4.33	22.0612
86	1,3-Dichlorobenzene	91	95	96	101	101	97	98	103	109	109	100	4.2	5.60	22.3438
87	1,4-Dichlorobenzene	91	95	95	101	99	98	99	104	111	109	100	4.4	5.99	22.5090
88	n-Butylbenzene	91	93	91	102	100	104	101	103	108	107	------	5	6.21	22.7342
89	1,2-Dichlorobenzene	94	99	96	101	100	96	96	102	108	108	99	3.5	4.60	23.1574
90	1,2-Dibromo-3-chloropropane	------	------	82	95	97	99	111	116	------	------	------	9	12.09	24.4483
91	1,2,4-Trichlorobenzene	86	87	82	98	100	104	105	103	109	114	112	8.5	10.68	26.0529
92	Hexachlorobutadiene	94	99	94	105	103	103	100	96	101	106	98	3.5	4.24	26.2614
93	Naphthalene	108	91	80	95	93	94	101	101	109	116	112	8.5	10.58	26.6472
94	1,2,3-Trichlorobenzene	82	92	82	102	98	103	105	102	111	116	110	8.5	10.99	27.1251

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SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T001
IC_Beginning DateTime :12/11/10 09:56
Spike Amount :10 PPB
CC/CV File :RLV341
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :12/11/10 15:24
HPChem Method :V001L11
Date_Time :12/11/10 17:01

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1441268	1	1	8.817	8.813	0				
	2	Dichlorodifluoromethane	9.811	-1.9	247380	0.172	0.175	2.218	2.216	9.01				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.420	4.2	513603	0.356	0.342	2.484	2.479	12.16				
	5	Vinyl chloride	8.919	-10.8	375385	0.260	0.292	2.647	2.650	14.06				
	6	Bromomethane	10.831	8.3	338949	0.235	0.217	3.180	3.170	11.37				
	7	Chloroethane	10.651	6.5	347910	0.241	0.227	3.254	3.251	11.96				
	8	Dichlorofluoromethane	10.136	1.4	855719	0.594	0.586	3.343	3.336	8.78				
	9	Trichlorofluoromethane	10.078	0.8	482948	0.335	0.332	3.639	3.632	9.45				
5	10	sec-Propyl alcohol												
5	11	Acrolein	51.451	2.9	119492	0.017	0.016	4.142	4.139	7.57				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.530	-4.7	218750	0.152	0.159	4.201	4.195	8.56				
5	13	Acetone	51.089	2.2	290469	0.040	0.039	4.231	4.229	7.47				
	14	1,1-Dichloroethene	9.961	-0.4	660776	0.458	0.460	4.393	4.395	8.36				
5	15	tert-Butyl alcohol	55.129	10.3	116541	0.016	0.015	4.526	4.535	6.55				
	16	Acetonitrile												
	17	Iodomethane	10.423	4.2	728506	0.505	0.485	4.808	4.814	6.50				
	18	Methyl acetate												
	19	Methylene chloride	9.456	-5.4	652718	0.453	0.479	5.044	5.042	14.28				
	20	Carbon disulfide	10.804	8.0	1858853	1.290	1.122	5.074	5.073	18.20	-0.0182	1.2106		0.9987
5	21	Acrylonitrile	50.918	1.8	383180	0.053	0.052	5.207	5.214	5.64				
	22	tert-Butyl methyl ether (MTBE)	10.408	4.1	682062	0.473	0.455	5.266	5.276	6.60				
	23	trans-1,2-Dichloroethene	10.121	1.2	752336	0.522	0.516	5.444	5.444	7.26				
	24	Isopropyl ether (DIPE)	10.377	3.8	1892189	1.313	1.265	5.888	5.897	6.33				
	25	Vinyl acetate	10.668	6.7	714287	0.496	0.465	6.036	6.045	9.23				
	26	1,1-Dichloroethane	10.193	1.9	928069	0.644	0.632	6.050	6.047	7.19				
5	27	2-Butanol												
	28	tert-Butyl ethyl ether (ETBE)	10.505	5.0	1140580	0.791	0.753	6.479	6.486	7.38				
5	29	2-Butanone	51.518	3.0	548469	0.076	0.074	6.657	6.653	5.70				
	30	2,2-Dichloropropane	8.922	-10.8	489415	0.340	0.381	6.864	6.857	12.09				
	31	cis-1,2-Dichloroethene	10.170	1.7	542952	0.377	0.370	6.923	6.917	6.52				
	32	Chloroform	10.272	2.7	807078	0.560	0.545	7.145	7.144	5.99				
	33	Bromochloromethane	10.525	5.3	415030	0.288	0.274	7.382	7.389	6.81				
	34	Dibromofluoromethane	11.205	12.0	483875	0.336	0.300	7.471	7.468	8.39				
	35	Tetrahydrofuran												
	36	1,1,1-Trichloroethane	9.978	-0.2	568490	0.394	0.395	7.752	7.748	6.94				
	37	Cyclohexane												
5	38	1-Butanol												
	39	tert-Amyl methyl ether (TAME)	10.885	8.8	175207	0.122	0.112	8.166	8.168	9.19				
	40	1,2-Dichloroethane-d4	11.265	12.7	380481	0.264	0.234	8.211	8.217	8.04				
	41	CHLOROBENZENE-D5	10.000	0	1268187	1	1	14.026	14.020	0				
	42	1,1-Dichloropropene	9.512	-4.9	231678	0.183	0.192	7.974	7.977	9.97				
	43	Carbon tetrachloride	9.429	-5.7	452292	0.357	0.378	8.137	8.134	7.86				
	44	1,2-Dichloroethane	10.351	3.5	440019	0.347	0.335	8.359	8.358	6.97				
	45	Benzene	9.992	-0.1	1972794	1.556	1.557	8.388	8.387	8.06				
	46	Trichloroethene	10.051	0.5	526161	0.415	0.413	9.335	9.337	7.10				
	47	Methylcyclohexane												
	48	1,2-Dichloropropane	10.146	1.5	552765	0.436	0.430	9.616	9.624	7.02				
20	49	1,4-Dioxane	210.064	5.0	36160	0.001	0.001	10.060	10.051	9.05				
	50	Bromodichloromethane	10.131	1.3	590694	0.466	0.460	10.001	9.999	6.30				
	51	Dibromomethane	10.150	1.5	211627	0.167	0.164	10.090	10.087	6.40				
	52	2-Chloroethyl vinyl ether	10.108	1.1	136461	0.108	0.106	10.489	10.488	4.84				
	53	4-Methyl-2-pentanone	50.616	1.2	1413511	0.223	0.220	10.549	10.553	6.01				
	54	cis-1,3-Dichloropropene	9.981	-0.2	735398	0.580	0.581	10.889	10.894	6.39				
	55	Toluene-d8	10.778	7.8	1780332	1.404	1.303	11.318	11.317	6.27				
	56	Toluene	9.842	-1.6	1985249	1.565	1.591	11.451	11.452	8.81				
	57	Ethyl methacrylate	10.442	4.4	410458	0.324	0.310	11.732	11.738	7.22				
	58	trans-1,3-Dichloropropene	10.202	2.0	529496	0.418	0.409	11.747	11.750	7.44				
5	59	2-Hexanone	50.525	1.0	878349	0.139	0.137	12.043	12.049	6.85				

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	60	1,1,2-Trichloroethane	10.315	3.1	287381	0.227	0.220	12.028	12.029	7.27				
	61	1,3-Dichloropropane	10.316	3.2	564370	0.445	0.431	12.472	12.474	6.84				
	62	Tetrachloroethene	9.721	-2.8	383027	0.302	0.311	12.605	12.603	8.80				
	63	Dibromochloromethane	10.420	4.2	357574	0.282	0.271	12.960	12.958	6.68				
	64	1,2-Dibromoethane	10.304	3.0	281963	0.222	0.216	13.330	13.325	6.57				
	65	1-Chlorohexane	9.529	-4.7	786927	0.621	0.651	13.611	13.607	10.53				
	66	Chlorobenzene	10.157	1.6	1226175	0.967	0.952	14.085	14.090	7.47				
	67	1,1,1,2-Tetrachloroethane	10.304	3.0	400565	0.316	0.307	14.174	14.168	8.36				
	68	Ethylbenzene	9.695	-3.0	2229329	1.758	1.813	14.188	14.184	4.94				
2	69	m-Xylene & p-Xylene	19.649	-1.8	3319552	1.309	1.332	14.321	14.325	4.55				
	70	o-Xylene	10.006	0.1	1650344	1.301	1.301	15.150	15.149	8.43				
	71	Styrene	10.533	5.3	1309154	1.032	0.980	15.224	15.217	7.59				
	72	1,2-DICHLOROBENZENE-D4	10.000	0	456225	1	1	19.101	19.106	0				
	73	Isopropylbenzene	9.833	-1.7	1970393	4.319	4.392	15.831	15.834	9.38				
	74	Bromoform	10.479	4.8	176880	0.388	0.370	15.860	15.868	8.94				
	75	1,1,2,2-Tetrachloroethane	10.086	0.9	329499	0.722	0.716	16.156	16.160	6.57				
	76	4-Bromofluorobenzene	11.186	11.9	578733	1.269	1.134	16.319	16.318	7.80				
	77	1,2,3-Trichloropropane	9.842	-1.6	80909	0.177	0.180	16.452	16.451	14.17				
	78	trans-1,4-Dichloro-2-butene	9.620	-3.8	81130	0.178	0.185	16.585	16.584	7.64				
	79	n-Propylbenzene	9.741	-2.6	2591820	5.681	5.832	16.615	16.611	9.03				
	80	Bromobenzene	10.184	1.8	426714	0.935	0.918	16.704	16.700	5.85				
	81	1,3,5-Trimethylbenzene	9.986	-0.1	1574680	3.452	3.456	16.926	16.923	9.31				
	82	2-Chlorotoluene	9.790	-2.1	1585311	3.475	3.549	16.955	16.957	8.13				
	83	4-Chlorotoluene	10.102	1.0	1408398	3.087	3.056	17.044	17.050	8.71				
	84	tert-Butylbenzene	9.877	-1.2	353763	0.775	0.785	17.621	17.620	8.82				
	85	1,2,4-Trimethylbenzene	10.012	0.1	1559834	3.419	3.415	17.695	17.694	7.81				
	86	sec-Butylbenzene	9.743	-2.6	2139958	4.691	4.814	18.021	18.020	9.57				
	87	p-Isopropyltoluene	9.794	-2.1	1641999	3.599	3.675	18.257	18.256	9.11				
	88	1,3-Dichlorobenzene	10.097	1.0	854259	1.872	1.854	18.420	18.416	6.67				
	89	1,4-Dichlorobenzene	10.085	0.8	819779	1.797	1.782	18.583	18.586	6.58				
	90	n-Butylbenzene	9.579	-4.2	1683787	3.691	3.853	18.908	18.906	10.13				
	91	1,2-Dichlorobenzene	10.127	1.3	695958	1.525	1.506	19.145	19.144	6.68				
	92	1,2-Dibromo-3-chloropropane	10.405	4.0	42380	0.093	0.089	20.196	20.193	5.97				
	93	1,2,4-Trichlorobenzene	9.901	-1.0	413970	0.907	0.916	21.335	21.334	6.51				
	94	Hexachlorobutadiene	9.621	-3.8	256822	0.563	0.585	21.513	21.514	7.65				
	95	Naphthalene	10.187	1.9	493053	1.081	1.061	21.705	21.702	6.04				
	96	1,2,3-Trichlorobenzene	9.814	-1.9	328132	0.719	0.733	22.030	22.038	7.34				

Spike Amount = Nominal Amount * M

Sq 2/16/10

1016

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T003
IC_Beginning DateTime :02/16/11 15:43
Spike Amount :10 PPB
CC/CV File :RBB369
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :02/16/11 21:52
HPChem Method :V003B16
Date_Time :02/16/11 23:44

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1749022	1	1	13.420	13.432	0				
	2	Dichlorodifluoromethane	10.099	1.0	749830	0.429	0.424	3.592	3.587	7.98				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.302	3.0	781289	0.447	0.434	4.084	4.081	10.18				
	5	Vinyl chloride	10.001	0.0	670749	0.383	0.383	4.337	4.341	9.42				
	6	Bromomethane	9.478	-5.2	468375	0.268	0.283	5.290	5.286	13.37				
	7	Chloroethane	9.480	-5.2	277787	0.159	0.168	5.454	5.455	13.61				
	8	Dichlorofluoromethane	10.547	5.5	1272394	0.727	0.690	5.528	5.536	14.68				
	9	Trichlorofluoromethane	10.340	3.4	967672	0.553	0.535	6.019	6.005	13.07				
5	10	Acrolein	42.533	-14.9	64305	0.007	0.009	6.883	6.884	14.42				
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	10.154	1.5	385778	0.221	0.217	6.943	6.942	4.44				
5	12	Acetone	46.555	-6.9	338109	0.039	0.042	7.002	7.009	9.70				
	13	1,1-Dichloroethene	10.291	2.9	1148879	0.657	0.638	7.330	7.338	4.13				
5	14	tert-Butyl alcohol	48.434	-3.1	99581	0.011	0.012	7.434	7.455	14.23				
10	15	Acetonitrile	85.975	-14.0	40107	0.002	0.003	7.613	7.607	14.88				
	16	Methyl acetate												
	17	Iodomethane	10.180	1.8	1095641	0.626	0.615	8.045	8.052	7.16				
	18	Methylene chloride	9.684	-3.2	738634	0.422	0.436	8.417	8.425	5.52				
	19	Carbon disulfide	11.000	10.0	2127656	1.216	1.106	8.491	8.502	11.02				
5	20	Acrylonitrile	51.074	2.1	297723	0.034	0.033	8.655	8.662	14.37				
	21	tert-Butyl methyl ether (MTBE)	10.167	1.7	828708	0.474	0.466	8.700	8.705	10.15				
	22	trans-1,2-Dichloroethene	10.341	3.4	1095453	0.626	0.606	9.042	9.055	7.62				
	23	Isopropyl ether (DIPE)	10.124	1.2	1968042	1.125	1.111	9.653	9.663	8.30				
	24	Vinyl acetate	8.907	-10.9	509661	0.291	0.327	9.906	9.908	7.48				
	25	1,1-Dichloroethane	10.351	3.5	1254295	0.717	0.693	9.936	9.943	8.06				
5	26	2-Butanol	50.698	1.4	68054	0.008	0.008	10.338	10.349	11.58				
	27	tert-Butyl ethyl ether (ETBE)	10.409	4.1	1412487	0.808	0.776	10.487	10.492	10.75				
5	28	2-Butanone	51.245	2.5	567754	0.065	0.063	10.740	10.753	7.90				
	29	2,2-Dichloropropane	9.794	-2.1	618445	0.354	0.361	11.052	11.062	6.44				
	30	cis-1,2-Dichloroethene	10.430	4.3	711330	0.407	0.390	11.157	11.158	9.43				
	31	Chloroform	10.205	2.0	1479989	0.846	0.829	11.455	11.458	6.25				
	32	Bromochloromethane	10.409	4.1	554166	0.317	0.304	11.782	11.782	8.43				
	33	Tetrahydrofuran	9.240	-7.6	58777	0.034	0.036	11.812	11.827	10.17				
	34	Dibromofluoromethane	10.547	5.5	791864	0.453	0.429	11.857	11.869	8.48				
	35	1,1,1-Trichloroethane	10.630	6.3	1244876	0.712	0.670	12.214	12.217	9.37				
	36	Cyclohexane												
	37	tert-Amyl methyl ether (TAME)	10.331	3.3	236578	0.135	0.131	12.646	12.656	10.88				
	38	1,2-Dichloroethane-d4	10.409	4.1	765700	0.438	0.421	12.780	12.780	5.74				
	39	CHLOROBENZENE-D5	10.000	0	1643555	1	1	18.542	18.549	0				
	40	1,1-Dichloropropene	9.807	-1.9	320978	0.195	0.199	12.497	12.496	4.41				
	41	Carbon tetrachloride	10.135	1.4	1194637	0.727	0.717	12.691	12.697	10.99				
	42	1,2-Dichloroethane	9.996	-0.0	884667	0.538	0.538	12.944	12.951	7.83				
	43	Benzene	9.614	-3.9	2512503	1.529	1.590	12.988	12.999	4.74				
	44	Trichloroethene	10.060	0.6	720386	0.438	0.436	14.045	14.050	5.43				
	45	Methylcyclohexane												
	46	1,2-Dichloropropane	10.034	0.3	638538	0.389	0.387	14.343	14.344	6.05				
20	47	1,4-Dioxane	172.228	-13.9	31953	0.001	0.001	14.731	14.744	14.76				
	48	Bromodichloromethane	10.162	1.6	1044916	0.636	0.626	14.745	14.754	14.13				
	49	Dibromomethane	10.020	0.2	383959	0.234	0.233	14.865	14.866	9.21				
	50	2-Chloroethyl vinyl ether												
5	51	4-Methyl-2-pentanone	51.086	2.2	1636642	0.199	0.195	15.207	15.211	9.79				
	52	cis-1,3-Dichloropropene	10.175	1.8	973350	0.592	0.582	15.609	15.620	12.72				
	53	Toluene-d8	10.298	3.0	2564445	1.560	1.515	16.041	16.048	5.31				
	54	Toluene	9.922	-0.8	2864671	1.743	1.757	16.175	16.181	5.15				
	55	Ethyl methacrylate	10.561	5.6	460709	0.280	0.265	16.309	16.318	13.25				
	56	trans-1,3-Dichloropropene	11.785	17.8	796862	0.485	0.411	16.413	16.425	14.83				
5	57	2-Hexanone	52.059	4.1	1116881	0.136	0.131	16.622	16.626	11.38				
	58	1,1,2-Trichloroethane	10.267	2.7	375071	0.228	0.222	16.696	16.711	7.35				
	59	1,3-Dichloropropane	10.187	1.9	693598	0.422	0.414	17.113	17.113	7.64				
	60	Tetrachloroethene	9.991	-0.1	691980	0.421	0.421	17.262	17.270	4.57				

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	61	Dibromochloromethane	11.763	17.6	550913	0.335	0.285	17.619	17.628	13.38				
	62	1,2-Dibromoethane	10.453	4.5	442767	0.269	0.258	17.947	17.958	11.52				
	63	1-Chlorohexane	10.246	2.5	1300536	0.791	0.772	18.051	18.062	4.61				
	64	Chlorobenzene	10.123	1.2	1698436	1.033	1.021	18.602	18.616	4.58				
	65	1,1,1,2-Tetrachloroethane	10.427	4.3	640525	0.390	0.374	18.647	18.654	11.37				
	66	Ethylbenzene	10.037	0.4	3721815	2.264	2.256	18.632	18.644	5.37				
2	67	m-Xylene & p-Xylene	20.635	3.2	5901412	1.795	1.740	18.751	18.759	2.39				
	68	o-Xylene	10.233	2.3	2895048	1.761	1.721	19.481	19.490	4.47				
	69	Styrene	10.631	6.3	1926091	1.172	1.102	19.525	19.538	7.64				
	70	1,2-DICHLOROBENZENE-D4	10.000	0	674833	1	1	23.099	23.110	0				
	71	Isopropylbenzene	9.737	-2.6	3279090	4.859	4.990	20.017	20.033	5.22				
	72	Bromoform	9.764	-2.4	288141	0.427	0.373	20.195	20.196	20.08	-0.0143	0.4520		0.9974
	73	1,1,2,2-Tetrachloroethane	9.728	-2.7	431369	0.639	0.657	20.315	20.319	8.92				
	74	4-Bromofluorobenzene	9.910	-0.9	1028409	1.524	1.538	20.478	20.489	6.50				
	75	1,2,3-Trichloropropane	10.043	0.4	106866	0.158	0.158	20.553	20.566	11.35				
	76	trans-1,4-Dichloro-2-butene	10.019	0.2	101914	0.151	0.127	20.597	20.609	22.13	-0.0090	0.1597		0.9971
	77	n-Propylbenzene	9.945	-0.6	4686763	6.945	6.983	20.672	20.684	4.56				
	78	Bromobenzene	9.838	-1.6	733918	1.088	1.105	20.865	20.876	7.55				
	79	1,3,5-Trimethylbenzene	9.889	-1.1	2877241	4.264	4.311	20.910	20.918	5.24				
	80	2-Chlorotoluene	10.265	2.7	2964419	4.393	4.279	21.044	21.050	6.21				
	81	4-Chlorotoluene	9.236	-7.6	2216088	3.284	3.555	21.104	21.107	10.04				
	82	tert-Butylbenzene	9.978	-0.2	491197	0.728	0.729	21.506	21.524	5.39				
	83	1,2,4-Trimethylbenzene	9.934	-0.7	2770016	4.105	4.132	21.580	21.586	4.15				
	84	sec-Butylbenzene	10.056	0.6	3763397	5.577	5.546	21.863	21.865	4.45				
	85	p-Isopropyltoluene	10.155	1.5	2815850	4.173	4.109	22.057	22.061	4.33				
	86	1,3-Dichlorobenzene	10.146	1.5	1284781	1.904	1.876	22.340	22.344	5.60				
	87	1,4-Dichlorobenzene	10.057	0.6	1200850	1.779	1.769	22.503	22.509	5.99				
	88	n-Butylbenzene	10.369	3.7	3306778	4.900	4.725	22.727	22.734	6.21				
	89	1,2-Dichlorobenzene	10.072	0.7	1015132	1.504	1.493	23.144	23.157	4.60				
	90	1,2-Dibromo-3-chloropropane	10.328	3.3	51699	0.077	0.074	24.439	24.448	12.09				
	91	1,2,4-Trichlorobenzene	11.022	10.2	609614	0.903	0.820	26.047	26.053	10.68				
	92	Hexachlorobutadiene	10.433	4.3	530798	0.787	0.754	26.256	26.261	4.24				
	93	Naphthalene	10.435	4.4	676216	1.002	0.960	26.643	26.647	10.58				
	94	1,2,3-Trichlorobenzene	10.877	8.8	448659	0.665	0.611	27.119	27.125	10.99				

Spike Amount = Nominal Amount * M

5u
2/18/11

1048

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11B186

Lab File ID: RBV567 — BFB Injection Date : 02/22/11

Instrument ID: T001 — BFB Injection Time : 06:34

GC Column:RTX502.21D:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.16
75	30.0 - 60.0% of mass 95	45.13
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.67
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	72.66
175	5.0 - 9.0% of mass 174	5.65(7.8)1
176	95.0 - 101.0% of mass 174	72.70(100.1)1
177	5.0 - 9.0% of mass 176	4.78(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1167	RBV568	02/22/11	07:05
2	MBLK1W	V001B28B	RBV572	02/22/11	09:23
3	LCS1W	V001B28L	RBV569	02/22/11	07:43
4	LCD1W	V001B28C	RBV570	02/22/11	08:17
5	SSI-D-002	B186-10	RBV577	02/22/11	12:19
6	SSI-HP-008	B186-09	RBV578	02/22/11	12:50
7	SSI-HP-006	B186-07	RBV579	02/22/11	13:21
8	SSI-HP-003	B186-04	RBV581	02/22/11	14:26
9	SSI-HP-005	B186-06	RBV587	02/22/11	17:38

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1297270	8.79	1107700	14.00	394686	19.09
2	MBLK1W	1404040	8.79	1260325	13.98	426445	19.09
3	LCS1W	1301526	8.79	1144234	14.00	396621	19.09
4	LCD1W	1395338	8.79	1214348	13.99	423579	19.08
5	SSI-D-002	1272329	8.79	1134696	14.00	384317	19.09
6	SSI-HP-008	1385637	8.79	1205121	14.00	403768	19.09
7	SSI-HP-006	1371200	8.79	1212290	14.00	417835	19.09
8	SSI-HP-003	1372379	8.79	1205112	14.00	408947	19.09
9	SSI-HP-005	1319588	8.79	1133856	14.00	384170	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	10.000	9.959	0.4	82	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	81	0.00
4	P,T	Chloromethane	10.000	9.427	5.7	79	0.00
5	C,T	Vinyl chloride	10.000	9.714	2.9	92	0.00
6	T	Bromomethane	10.000	9.343	6.6	77	0.00
7	T	Chloroethane	10.000	10.463	-4.6	88	0.00
8	T	Dichlorofluoromethane	10.000	8.963	10.4	78	0.00
9	T	Trichlorofluoromethane	10.000	10.818	-8.2	92	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	121	-0.02
11	T	Acrolein	50.000	48.785	2.4	85	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.670	-6.7	91	0.00
13	T	Acetone	50.000	48.849	2.3	87	0.00
14	C,T	1,1-Dichloroethene	10.000	9.522	4.8	83	0.00
15	T	tert-Butyl alcohol	50.000	61.165	-22.3#	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.061	19.4	69	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	87	0.00
19	T	Methylene chloride	10.000	8.317	16.8	77	0.00
20	T	Carbon disulfide	10.000	10.534	-5.3	84	-0.02
21	T	Acrylonitrile	50.000	51.202	-2.4	91	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.408	5.9	82	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.203	8.0	81	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.165	8.4	79	0.00
25	T	Vinyl acetate	10.000	10.798	-8.0	92	0.00
26	P,T	1,1-Dichloroethane	10.000	9.331	6.7	81	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	73	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	8.883	11.2	77	0.00
29	T	2-Butanone	50.000	48.820	2.4	88	0.00
30	T	2,2-Dichloropropane	10.000	10.385	-3.8	93	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.395	6.1	81	-0.02
32	C,T	Chloroform	10.000	9.118	8.8	80	-0.02
33	T	Bromochloromethane	10.000	9.124	8.8	78	0.00
34	S	Dibromofluoromethane	10.000	9.466	5.3	80	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.618	3.8	85	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	80	0.00
38	T	1-Butanol	-1.000	0.000	0.0	73	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.045	9.6	78	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.925	0.7	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~89~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.648	3.5	86	0.00
43	T	Carbon tetrachloride	10.000	9.757	2.4	86	-0.02
44	T	1,2-Dichloroethane	10.000	9.456	5.4	81	-0.02
45	T	Benzene	10.000	9.710	2.9	85	-0.02
46	T	Trichloroethene	10.000	9.516	4.8	81	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	97	0.00
48	C,T	1,2-Dichloropropane	10.000	9.108	8.9	79	0.00
49	T	1,4-Dioxane	200.000	231.373	-15.7	104	-0.02
50	T	Bromodichloromethane	10.000	9.053	9.5	77	-0.02
51	T	Dibromomethane	10.000	8.662	13.4	74	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	4.294	57.1#	38	-0.02
53	T	4-Methyl-2-pentanone	50.000	44.958	10.1	80	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.327	6.7	80	0.00
55	S	Toluene-d8	10.000	10.502	-5.0	89	-0.02
56	C,T	Toluene	10.000	9.623	3.8	84	-0.02
57	T	Ethyl methacrylate	10.000	9.017	9.8	76	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.584	4.2	82	0.00
59	T	2-Hexanone	50.000	45.532	8.9	81	0.00
60	T	1,1,2-Trichloroethane	10.000	9.753	2.5	83	-0.02
61	T	1,3-Dichloropropane	10.000	9.512	4.9	82	0.00
62	T	Tetrachloroethene	10.000	9.821	1.8	86	-0.02
63	T	Dibromochloromethane	10.000	8.779	12.2	74	-0.02
64	T	1,2-Dibromoethane	10.000	8.722	12.8	74	-0.02
65	T	1-Chlorohexane	10.000	10.224	-2.2	88	-0.02
66	P	Chlorobenzene	10.000	9.668	3.3	83	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.594	4.1	82	-0.02
68	C,T	Ethylbenzene	10.000	9.516	4.8	84	-0.02
69	T	m-Xylene & p-Xylene	20.000	19.033	4.8	83	-0.02
70	T	o-Xylene	10.000	9.574	4.3	81	-0.02
71	T	Styrene	10.000	9.578	4.2	79	-0.02
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	87	0.00
73	T	Isopropylbenzene	10.000	9.789	2.1	83	-0.02
74	P,T	Bromoform	10.000	9.030	9.7	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.055	9.5	78	-0.02
76	S	4-Bromofluorobenzene	10.000	10.263	-2.6	85	-0.02
77	T	1,2,3-Trichloropropane	10.000	8.811	11.9	81	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	9.375	6.3	79	-0.02
79	T	n-Propylbenzene	10.000	9.847	1.5	84	-0.02
80	T	Bromobenzene	10.000	9.479	5.2	81	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	9.673	3.3	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CV001L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.473	5.3	83	-0.02
83	T	4-Chlorotoluene	10.000	9.754	2.5	80	-0.04
84	T	tert-Butylbenzene	10.000	10.122	-1.2	86	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	9.553	4.5	80	-0.02
86	T	sec-Butylbenzene	10.000	9.858	1.4	84	-0.02
87	T	p-Isopropyltoluene	10.000	9.894	1.1	83	-0.02
88	T	1,3-Dichlorobenzene	10.000	9.398	6.0	80	-0.02
89	T	1,4-Dichlorobenzene	10.000	9.418	5.8	79	0.00
90	T	n-Butylbenzene	10.000	9.738	2.6	82	-0.02
91	T	1,2-Dichlorobenzene	10.000	9.515	4.8	80	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.157	8.4	77	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	8.930	10.7	76	0.00
94	T	Hexachlorobutadiene	10.000	8.818	11.8	74	-0.02
95	T	Naphthalene	10.000	9.753	2.5	86	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	8.384	16.2	73	-0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	0.175	0.174	0.6	82	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	81	0.00
4	P,T	Chloromethane	0.342	0.322	5.8	79	0.00
5	C,T	Vinyl chloride	0.292	0.284	2.7	92	0.00
6	T	Bromomethane	0.217	0.203	6.5	77	0.00
7	T	Chloroethane	0.227	0.237	-4.4	88	0.00
8	T	Dichlorofluoromethane	0.586	0.525	10.4	78	0.00
9	T	Trichlorofluoromethane	0.332	0.360	-8.4	92	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	121	-0.02
11	T	Acrolein	0.016	0.016	0.0	85	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.170	-6.9	91	0.00
13	T	Acetone	0.039	0.039	0.0	87	0.00
14	C,T	1,1-Dichloroethene	0.460	0.438	4.8	83	0.00
15	T	tert-Butyl alcohol	0.015	0.018	-20.0	114	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.391	19.4	69	0.00
18	T	Methyl acetate	0.000	0.000	0.0	87	0.00
19	T	Methylene chloride	0.479	0.398	16.9	77	0.00
20	T	Carbon disulfide	1.122	1.257	-12.0	84	-0.02
21	T	Acrylonitrile	0.052	0.053	-1.9	91	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.428	5.9	82	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.475	7.9	81	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.159	8.4	79	0.00
25	T	Vinyl acetate	0.465	0.502	-8.0	92	0.00
26	P,T	1,1-Dichloroethane	0.632	0.589	6.8	81	-0.02
27	T	2-Butanol	0.000	0.000	0.0	73	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.669	11.2	77	0.00
29	T	2-Butanone	0.074	0.072	2.7	88	0.00
30	T	2,2-Dichloropropane	0.381	0.395	-3.7	93	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.348	5.9	81	-0.02
32	C,T	Chloroform	0.545	0.497	8.8	80	-0.02
33	T	Bromochloromethane	0.274	0.250	8.8	78	0.00
34	S	Dibromofluoromethane	0.300	0.284	5.3	80	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.380	3.8	85	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	80	0.00
38	T	1-Butanol	0.000	0.000	0.0	73	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.101	9.8	78	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.233	0.4	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~89~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CV001L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.185	3.6	86	0.00
43	T	Carbon tetrachloride	0.378	0.369	2.4	86	-0.02
44	T	1,2-Dichloroethane	0.335	0.317	5.4	81	-0.02
45	T	Benzene	1.557	1.512	2.9	85	-0.02
46	T	Trichloroethene	0.413	0.393	4.8	81	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	97	0.00
48	C,T	1,2-Dichloropropane	0.430	0.391	9.1	79	0.00
49	T	1,4-Dioxane	0.001	0.002	-100.0#	104	-0.02
50	T	Bromodichloromethane	0.460	0.416	9.6	77	-0.02
51	T	Dibromomethane	0.164	0.142	13.4	74	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.046	56.6#	38#	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.198	10.0	80	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.542	6.7	80	0.00
55	S	Toluene-d8	1.303	1.368	-5.0	89	-0.02
56	C,T	Toluene	1.591	1.531	3.8	84	-0.02
57	T	Ethyl methacrylate	0.310	0.279	10.0	76	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.392	4.2	82	0.00
59	T	2-Hexanone	0.137	0.125	8.8	81	0.00
60	T	1,1,2-Trichloroethane	0.220	0.214	2.7	83	-0.02
61	T	1,3-Dichloropropane	0.431	0.410	4.9	82	0.00
62	T	Tetrachloroethene	0.311	0.305	1.9	86	-0.02
63	T	Dibromochloromethane	0.271	0.238	12.2	74	-0.02
64	T	1,2-Dibromoethane	0.216	0.188	13.0	74	-0.02
65	T	1-Chlorohexane	0.651	0.666	-2.3	88	-0.02
66	P	Chlorobenzene	0.952	0.920	3.4	83	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.294	4.2	82	-0.02
68	C,T	Ethylbenzene	1.813	1.725	4.9	84	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.268	4.8	83	-0.02
70	T	o-Xylene	1.301	1.245	4.3	81	-0.02
71	T	Styrene	0.980	0.939	4.2	79	-0.02
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.392	4.299	2.1	83	-0.02
74	P,T	Bromoform	0.370	0.334	9.7	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.648	9.5	78	-0.02
76	S	4-Bromofluorobenzene	1.134	1.164	-2.6	85	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.159	11.7	81	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.173	6.5	79	-0.02
79	T	n-Propylbenzene	5.832	5.742	1.5	84	-0.02
80	T	Bromobenzene	0.918	0.871	5.1	81	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.343	3.3	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.362	5.3	83	-0.02
83	T	4-Chlorotoluene	3.056	2.981	2.5	80	-0.04
84	T	tert-Butylbenzene	0.785	0.795	-1.3	86	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.262	4.5	80	-0.02
86	T	sec-Butylbenzene	4.814	4.746	1.4	84	-0.02
87	T	p-Isopropyltoluene	3.675	3.636	1.1	83	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.743	6.0	80	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.678	5.8	79	0.00
90	T	n-Butylbenzene	3.853	3.752	2.6	82	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.433	4.8	80	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.082	7.9	77	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.818	10.7	76	0.00
94	T	Hexachlorobutadiene	0.585	0.516	11.8	74	-0.02
95	T	Naphthalene	1.061	1.035	2.5	86	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.614	16.2	73	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11B186

Lab File ID: RBV591 — BFB Injection Date : 02/22/11

Instrument ID: T001 — BFB Injection Time : 19:46

GC Column:RTX502.21D:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.93
75	30.0 - 60.0% of mass 95	46.33
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	0.20(0.3)1
174	Greater than 50% of mass 95	72.59
175	5.0 - 9.0% of mass 174	5.15(7.1)1
176	95.0 - 101.0% of mass 174	71.21(98.1)1
177	5.0 - 9.0% of mass 176	4.86(6.8)2

1-Value is % mass 174 — 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1168	RBV592	02/22/11	20:17
2	MBLK2W	V001B29B	RBV596	02/22/11	22:25
3	LCS2W	V001B29L	RBV593	02/22/11	20:49
4	LCD2W	V001B29C	RBV594	02/22/11	21:21
5	SSI-HP-009	B186-11	RBV597	02/22/11	22:57
6	SSI-HP-004A	B186-13	RBV598	02/22/11	23:30

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 118186
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1295937	8.79	1142112	14.00	395503	19.09
2	MBLK2W	1395824	8.79	1248044	13.99	434125	19.08
3	LCS2W	1372143	8.79	1206572	14.00	419016	19.09
4	LCD2W	1352506	8.79	1199125	14.00	398217	19.09
5	SSI-HP-009	1396797	8.79	1259867	13.99	431798	19.08
6	SSI-HP-004A	1390418	8.79	1213806	14.00	426815	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	10.000	8.739	12.6	72	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	82	0.00
4	P,T	Chloromethane	10.000	10.337	-3.4	87	0.00
5	C,T	Vinyl chloride	10.000	10.220	-2.2	97	0.00
6	T	Bromomethane	10.000	10.196	-2.0	84	0.00
7	T	Chloroethane	10.000	11.188	-11.9	94	0.00
8	T	Dichlorofluoromethane	10.000	8.813	11.9	77	0.00
9	T	Trichlorofluoromethane	10.000	10.021	-0.2	85	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	120	0.00
11	T	Acrolein	50.000	45.060	9.9	78	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.333	6.7	80	0.00
13	T	Acetone	50.000	48.393	3.2	86	0.00
14	C,T	1,1-Dichloroethene	10.000	9.425	5.7	83	0.00
15	T	tert-Butyl alcohol	50.000	53.923	-7.8	100	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.324	16.8	71	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	90	0.00
19	T	Methylene chloride	10.000	8.633	13.7	80	0.00
20	T	Carbon disulfide	10.000	8.920	10.8	71	0.00
21	T	Acrylonitrile	50.000	53.507	-7.0	95	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.998	0.0	87	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.406	5.9	83	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.848	1.5	85	0.00
25	T	Vinyl acetate	10.000	11.513	-15.1	99	0.00
26	P,T	1,1-Dichloroethane	10.000	9.621	3.8	84	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	82	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.684	3.2	84	0.00
29	T	2-Butanone	50.000	49.958	0.1	90	0.00
~~30~~	~~T~~	~~2,2-Dichloropropane~~	~~10.000~~	~~9.836~~	~~1.6~~	~~88~~	~~0.00~~
31	T	cis-1,2-Dichloroethene	10.000	9.677	3.2	83	-0.02
32	C,T	Chloroform	10.000	9.339	6.6	82	-0.02
33	T	Bromochloromethane	10.000	9.544	4.6	82	0.00
34	S	Dibromofluoromethane	10.000	9.575	4.3	81	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.447	5.5	83	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	88	-0.02
38	T	1-Butanol	-1.000	0.000	0.0	81	-0.02
39	T	tert-Amyl methyl ether (TAM	10.000	9.856	1.4	84	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.940	0.6	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~92~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.177	8.2	84	0.00
43	T	Carbon tetrachloride	10.000	9.002	10.0	81	-0.02
44	T	1,2-Dichloroethane	10.000	9.358	6.4	83	-0.02
45	T	Benzene	10.000	9.753	2.5	88	-0.02
46	T	Trichloroethene	10.000	9.442	5.6	83	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	99	0.00
48	C,T	1,2-Dichloropropane	10.000	9.292	7.1	83	0.00
49	T	1,4-Dioxane	200.000	190.421	4.8	88	-0.02
50	T	Bromodichloromethane	10.000	9.073	9.3	80	-0.02
51	T	Dibromomethane	10.000	8.525	14.7	75	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	5.047 NK	49.5#	46	-0.02
53	T	4-Methyl-2-pentanone	50.000	45.574	8.9	83	-0.02
54	T	cis-1,3-Dichloropropene	10.000	9.477	5.2	84	0.00
55	S	Toluene-d8	10.000	10.442	-4.4	92	-0.02
56	C,T	Toluene	10.000	9.785	2.1	88	-0.02
57	T	Ethyl methacrylate	10.000	8.866	11.3	77	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.506	4.9	84	0.00
59	T	2-Hexanone	50.000	44.923	10.2	82	0.00
60	T	1,1,2-Trichloroethane	10.000	9.604	4.0	85	-0.02
61	T	1,3-Dichloropropane	10.000	9.232	7.7	82	0.00
62	T	Tetrachloroethene	10.000	9.732	2.7	88	-0.02
63	T	Dibromochloromethane	10.000	8.877	11.2	77	-0.02
64	T	1,2-Dibromoethane	10.000	8.612	13.9	76	-0.02
65	T	1-Chlorohexane	10.000	9.595	4.0	85	-0.02
66	P	Chlorobenzene	10.000	9.708	2.9	86	-0.02
67	T	1,1,1,2-Tetrachloroethane	10.000	9.684	3.2	85	-0.02
68	C,T	Ethylbenzene	10.000	9.545	4.6	87	-0.02
69	T	m-Xylene & p-Xylene	20.000	19.118	4.4	86	-0.02
70	T	o-Xylene	10.000	9.749	2.5	85	-0.02
71	T	Styrene	10.000	9.847	1.5	84	-0.02
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	87	0.00
73	T	Isopropylbenzene	10.000	10.244	-2.4	87	-0.02
74	P,T	Bromoform	10.000	9.005	9.9	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.155	8.5	79	-0.02
76	S	4-Bromofluorobenzene	10.000	10.556	-5.6	87	-0.02
77	T	1,2,3-Trichloropropane	10.000	9.073	9.3	83	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	9.342	6.6	79	-0.02
79	T	n-Propylbenzene	10.000	10.002	-0.0	85	-0.02
80	T	Bromobenzene	10.000	9.804	2.0	83	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	10.110	-1.1	86	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.880	1.2	87	-0.02
83	T	4-Chlorotoluene	10.000	10.042	-0.4	83	-0.04
84	T	tert-Butylbenzene	10.000	10.603	-6.0	91	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	10.064	-0.6	84	-0.02
86	T	sec-Butylbenzene	10.000	10.142	-1.4	87	-0.02
87	T	p-Isopropyltoluene	10.000	9.948	0.5	84	-0.02
88	T	1,3-Dichlorobenzene	10.000	9.929	0.7	84	-0.02
89	T	1,4-Dichlorobenzene	10.000	9.775	2.2	83	0.00
90	T	n-Butylbenzene	10.000	9.789	2.1	83	-0.02
91	T	1,2-Dichlorobenzene	10.000	9.885	1.2	83	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.119	8.8	77	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	9.398	6.0	81	-0.02
94	T	Hexachlorobutadiene	10.000	9.035	9.6	76	-0.02
95	T	Naphthalene	10.000	9.943	0.6	88	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	8.851	11.5	77	-0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	0.175	0.153	12.6	72	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	82	0.00
4	P,T	Chloromethane	0.342	0.354	-3.5	87	0.00
5	C,T	Vinyl chloride	0.292	0.298	-2.1	97	0.00
6	T	Bromomethane	0.217	0.221	-1.8	84	0.00
7	T	Chloroethane	0.227	0.254	-11.9	94	0.00
8	T	Dichlorofluoromethane	0.586	0.516	11.9	77	0.00
9	T	Trichlorofluoromethane	0.332	0.333	-0.3	85	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	120	0.00
11	T	Acrolein	0.016	0.015	6.3	78	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.149	6.3	80	0.00
13	T	Acetone	0.039	0.038	2.6	86	0.00
14	C,T	1,1-Dichloroethene	0.460	0.434	5.7	83	0.00
15	T	tert-Butyl alcohol	0.015	0.016	-6.7	100	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.404	16.7	71	0.00
18	T	Methyl acetate	0.000	0.000	0.0	90	0.00
19	T	Methylene chloride	0.479	0.413	13.8	80	0.00
20	T	Carbon disulfide	1.122	1.062	5.3	71	0.00
21	T	Acrylonitrile	0.052	0.056	-7.7	95	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.455	0.0	87	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.485	6.0	83	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.246	1.5	85	0.00
25	T	Vinyl acetate	0.465	0.535	-15.1	99	0.00
26	P,T	1,1-Dichloroethane	0.632	0.608	3.8	84	-0.02
27	T	2-Butanol	0.000	0.000	0.0	82	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.730	3.1	84	0.00
29	T	2-Butanone	0.074	0.074	0.0	90	0.00
30	T	2,2-Dichloropropane	0.381	0.374	1.8	88	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.358	3.2	83	-0.02
32	C,T	Chloroform	0.545	0.509	6.6	82	-0.02
33	T	Bromochloromethane	0.274	0.261	4.7	82	0.00
34	S	Dibromofluoromethane	0.300	0.287	4.3	81	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.373	5.6	83	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	88	-0.02
38	T	1-Butanol	0.000	0.000	0.0	81	-0.02
39	T	tert-Amyl methyl ether (TAM	0.112	0.110	1.8	84	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.233	0.4	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~92~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.176	8.3	84	0.00
43	T	Carbon tetrachloride	0.378	0.340	10.1	81	-0.02
44	T	1,2-Dichloroethane	0.335	0.314	6.3	83	-0.02
45	T	Benzene	1.557	1.518	2.5	88	-0.02
46	T	Trichloroethene	0.413	0.390	5.6	83	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	99	0.00
48	C,T	1,2-Dichloropropane	0.430	0.399	7.2	83	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	88	-0.02
50	T	Bromodichloromethane	0.460	0.417	9.3	80	-0.02
51	T	Dibromomethane	0.164	0.140	14.6	75	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.054	49.1#	46#	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.201	8.6	83	-0.02
54	T	cis-1,3-Dichloropropene	0.581	0.551	5.2	84	0.00
55	S	Toluene-d8	1.303	1.360	-4.4	92	-0.02
56	C,T	Toluene	1.591	1.556	2.2	88	-0.02
57	T	Ethyl methacrylate	0.310	0.275	11.3	77	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.389	4.9	84	0.00
59	T	2-Hexanone	0.137	0.123	10.2	82	0.00
60	T	1,1,2-Trichloroethane	0.220	0.211	4.1	85	-0.02
61	T	1,3-Dichloropropane	0.431	0.398	7.7	82	0.00
62	T	Tetrachloroethene	0.311	0.302	2.9	88	-0.02
63	T	Dibromochloromethane	0.271	0.240	11.4	77	-0.02
64	T	1,2-Dibromoethane	0.216	0.186	13.9	76	-0.02
65	T	1-Chlorohexane	0.651	0.625	4.0	85	-0.02
66	P	Chlorobenzene	0.952	0.924	2.9	86	-0.02
67	T	1,1,1,2-Tetrachloroethane	0.307	0.297	3.3	85	-0.02
68	C,T	Ethylbenzene	1.813	1.731	4.5	87	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.273	4.4	86	-0.02
70	T	o-Xylene	1.301	1.268	2.5	85	-0.02
71	T	Styrene	0.980	0.965	1.5	84	-0.02
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.392	4.499	-2.4	87	-0.02
74	P,T	Bromoform	0.370	0.333	10.0	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.656	8.4	79	-0.02
76	S	4-Bromofluorobenzene	1.134	1.197	-5.6	87	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.163	9.4	83	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.173	6.5	79	-0.02
79	T	n-Propylbenzene	5.832	5.833	-0.0	85	-0.02
80	T	Bromobenzene	0.918	0.900	2.0	83	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.494	-1.1	86	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.507	1.2	87	-0.02
83	T	4-Chlorotoluene	3.056	3.069	-0.4	83	-0.04
84	T	tert-Butylbenzene	0.785	0.832	-6.0	91	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.437	-0.6	84	-0.02
86	T	sec-Butylbenzene	4.814	4.883	-1.4	87	-0.02
87	T	p-Isopropyltoluene	3.675	3.656	0.5	84	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.841	0.7	84	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.742	2.2	83	0.00
90	T	n-Butylbenzene	3.853	3.772	2.1	83	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.489	1.1	83	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.081	9.0	77	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.861	6.0	81	-0.02
94	T	Hexachlorobutadiene	0.585	0.529	9.6	76	-0.02
95	T	Naphthalene	1.061	1.055	0.6	88	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.649	11.5	77	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBB469
Instrument ID: T003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/24/11
BFB Injection Time : 08:14
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.36
75	30.0 - 60.0% of mass 95	53.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.82
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	78.28
175	5.0 - 9.0% of mass 174	6.03(7.7)1
176	95.0 - 101.0% of mass 174	76.39(97.6)1
177	5.0 - 9.0% of mass 176	4.43(5.8)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV003B1606	RBB470	02/24/11	08:51
2	MBLK3W	V003B28B	RBB475	02/24/11	12:09
3	LCS3W	V003B28X	RBB473	02/24/11	10:53
4	LCD3W	V003B28C	RBB472	02/24/11	10:04
5	SSI-HP-001	B186-01R	RBB476	02/24/11	12:46
6	SSI-TB-001	B186-02R	RBB477	02/24/11	13:23
7	SSI-HP-002	B186-03R	RBB478	02/24/11	13:59
8	SSI-HP-007	B186-08R	RBB479	02/24/11	14:35

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBB361
Instrument ID: TO03
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/16/11
Time Analyzed: 18:45
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1883214	13.43	1714888	18.55	687853	23.11
	UPPER LIMIT	3766428	13.93	3429776	19.05	1375706	23.61
	LOWER LIMIT	941607	12.93	857444	18.05	343927	22.61
	SAMPLE ID						
1	VSTD010	1576842	13.42	1461115	18.52	620011	23.08
2	MBLK3W	1595956	13.42	1423940	18.53	540992	23.08
3	LCS3W	1513394	13.40	1377291	18.52	579405	23.10
4	LCD3W	1669687	13.42	1554121	18.53	671693	23.08
5	SSI-HP-001	1493431	13.42	1301662	18.54	515277	23.10
6	SSI-TB-001	1763809	13.42	1603824	18.54	602793	23.10
7	SSI-HP-002	1684378	13.42	1552308	18.54	602341	23.10
8	SSI-HP-007	1665917	13.42	1481738	18.54	566020	23.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

FORM VIII VOA-8260 1/2000

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	84	-0.02
2	T	Dichlorodifluoromethane	10.000	11.231	-12.3	85	-0.02
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	85	-0.02
4	P,T	Chloromethane	10.000	11.442	-14.4	89	-0.01
5	C,T	Vinyl chloride	10.000	11.475	-14.7	89	-0.02
6	T	Bromomethane	10.000	11.239	-12.4	86	-0.02
7	T	Chloroethane	10.000	10.668	-6.7	79	-0.02
8	T	Dichlorofluoromethane	10.000	10.264	-2.6	88	-0.03
9	T	Trichlorofluoromethane	10.000	11.873	-18.7	89	-0.02
10	T	Acrolein	50.000	49.966	0.1	97	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.762	2.4	84	-0.02
12	T	Acetone	50.000	50.315	-0.6	96	-0.01
13	C,T	1,1-Dichloroethene	10.000	9.776	2.2	82	-0.03
14	T	tert-Butyl alcohol	50.000	47.528	4.9	93	-0.01
15	T	Acetonitrile	100.000	81.335	18.7	83	-0.02
16	T	Methyl acetate	-1.000	0.000	0.0	70	-0.02
17	T	Iodomethane	10.000	9.485	5.2	82	-0.03
18	T	Methylene chloride	10.000	8.804	12.0	79	-0.03
19	T	Carbon disulfide	10.000	9.036	9.6	84	-0.02
20	T	Acrylonitrile	50.000	50.389	-0.8	86	-0.02
21	T	tert-Butyl methyl ether (MT	10.000	9.564	4.4	84	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.386	6.1	79	-0.02
23	T	Isopropyl ether (DIPE)	10.000	9.271	7.3	79	-0.02
24	T	Vinyl acetate	10.000	10.997	-10.0	88	-0.02
25	P,T	1,1-Dichloroethane	10.000	9.499	5.0	81	-0.02
26	T	2-Butanol	50.000	0.837	98.3#	1	-0.06
27	T	tert-Butyl ethyl ether (ETB	10.000	9.359	6.4	83	-0.02
28	T	2-Butanone	50.000	49.118	1.8	86	-0.02
29	T	2,2-Dichloropropane	10.000	11.714	-17.1	95	-0.02
30	T	cis-1,2-Dichloroethene	10.000	9.282	7.2	80	-0.02
31	C,T	Chloroform	10.000	9.953	0.5	86	-0.02
32	T	Bromochloromethane	10.000	9.550	4.5	84	-0.02
33	T	Tetrahydrofuran	10.000	7.844	21.6#	74	-0.02
34	S	Dibromofluoromethane	10.000	10.460	-4.6	92	-0.02
35	T	1,1,1-Trichloroethane	10.000	10.573	-5.7	88	-0.02
36	T	Cyclohexane	-1.000	0.000	0.0	87	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	9.376	6.2	84	-0.02
38	S	1,2-Dichloroethane-d4	10.000	10.341	-3.4	93	-0.02
39	I	CHLOROBENZENE-D5	10.000	10.000	0.0	85	-0.03
40	T	1,1-Dichloropropene	10.000	9.251	7.5	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D
Acq On : 24 Feb 2011 8:51 am
Sample : CVO03B1606
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	10.315	-3.1	87	-0.02
42	T	1,2-Dichloroethane	10.000	9.894	1.1	89	-0.03
43	T	Benzene	10.000	8.823	11.8	81	-0.01
44	T	Trichloroethene	10.000	9.295	7.1	83	-0.02
45	T	Methylcyclohexane	-1.000	0.000	0.0	80	-0.02
46	C,T	1,2-Dichloropropane	10.000	8.944	10.6	79	-0.02
47	T	1,4-Dioxane	200.000	161.593	19.2	85	-0.02
48	T	Bromodichloromethane	10.000	10.192	-1.9	88	-0.03
49	T	Dibromomethane	10.000	9.433	5.7	85	-0.02
50	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.03
51	T	4-Methyl-2-pentanone	50.000	51.226	-2.5	92	-0.02
52	T	cis-1,3-Dichloropropene	10.000	10.221	-2.2	87	-0.02
53	S	Toluene-d8	10.000	9.490	5.1	87	-0.03
54	C,T	Toluene	10.000	9.616	3.8	84	-0.02
55	T	Ethyl methacrylate	10.000	9.860	1.4	84	-0.03
56	T	trans-1,3-Dichloropropene	10.000	11.756	-17.6	90	-0.01
57	T	2-Hexanone	50.000	53.401	-6.8	94	-0.02
58	T	1,1,2-Trichloroethane	10.000	9.650	3.5	86	-0.02
59	T	1,3-Dichloropropane	10.000	9.482	5.2	85	-0.02
60	T	Tetrachloroethene	10.000	9.481	5.2	84	-0.03
61	T	Dibromochloromethane	10.000	11.536	-15.4	89	-0.01
62	T	1,2-Dibromoethane	10.000	9.635	3.7	83	-0.02
63	T	1-Chlorohexane	10.000	9.931	0.7	85	-0.03
64	P	Chlorobenzene	10.000	9.304	7.0	82	-0.02
65	T	1,1,1,2-Tetrachloroethane	10.000	10.189	-1.9	89	-0.03
66	C,T	Ethylbenzene	10.000	9.635	3.7	84	-0.01
67	T	m-Xylene & p-Xylene	20.000	19.583	2.1	85	-0.01
68	T	o-Xylene	10.000	9.659	3.4	85	-0.03
69	T	Styrene	10.000	9.678	3.2	82	-0.02
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	90	-0.03
71	T	Isopropylbenzene	10.000	9.068	9.3	85	-0.01
72	P,T	Bromoform	10.000	9.248	7.5	91	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	10.000	8.683	13.2	84	-0.02
74	S	4-Bromofluorobenzene	10.000	9.057	9.4	91	-0.02
75	T	1,2,3-Trichloropropane	10.000	9.541	4.6	94	-0.02
76	T	trans-1,4-Dichloro-2-butene	10.000	11.179	-11.8	108	-0.01
77	T	n-Propylbenzene	10.000	9.228	7.7	85	-0.03
78	T	Bromobenzene	10.000	8.942	10.6	86	-0.02
79	T	1,3,5-Trimethylbenzene	10.000	9.120	8.8	84	-0.03
80	T	2-Chlorotoluene	10.000	9.088	9.1	92	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	9.339	6.6	81	-0.01
82	T	tert-Butylbenzene	10.000	8.902	11.0	82	-0.02
83	T	1,2,4-Trimethylbenzene	10.000	9.445	5.5	88	-0.01
84	T	sec-Butylbenzene	10.000	9.403	6.0	87	-0.01
85	T	p-Isopropyltoluene	10.000	9.562	4.4	88	-0.01
86	T	1,3-Dichlorobenzene	10.000	9.485	5.2	88	-0.02
87	T	1,4-Dichlorobenzene	10.000	9.433	5.7	87	-0.02
88	T	n-Butylbenzene	10.000	9.978	0.2	87	-0.03
89	T	1,2-Dichlorobenzene	10.000	9.454	5.5	89	-0.02
90	T	1,2-Dibromo-3-chloropropane	10.000	10.185	-1.9	93	-0.03
91	T	1,2,4-Trichlorobenzene	10.000	10.500	-5.0	91	-0.02
92	T	Hexachlorobutadiene	10.000	10.681	-6.8	93	-0.02
93	T	Naphthalene	10.000	9.444	5.6	91	-0.02
94	T	1,2,3-Trichlorobenzene	10.000	10.486	-4.9	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CV003B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	-0.02
2	T	Dichlorodifluoromethane	0.424	0.477	-12.5	85	-0.02
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	85	-0.02
4	P,T	Chloromethane	0.434	0.496	-14.3	89	-0.01
5	C,T	Vinyl chloride	0.383	0.440	-14.9	89	-0.02
6	T	Bromomethane	0.283	0.318	-12.4	86	-0.02
7	T	Chloroethane	0.168	0.179	-6.5	79	-0.02
8	T	Dichlorofluoromethane	0.690	0.708	-2.6	88	-0.03
9	T	Trichlorofluoromethane	0.535	0.635	-18.7	89	-0.02
10	T	Acrolein	0.009	0.009	0.0	97	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	0.217	0.212	2.3	84	-0.02
12	T	Acetone	0.042	0.042	0.0	96	-0.01
13	C,T	1,1-Dichloroethene	0.638	0.624	2.2	82	-0.03
14	T	tert-Butyl alcohol	0.012	0.011	8.3	93	-0.01
15	T	Acetonitrile	0.003	0.002	33.3#	83	-0.02
16	T	Methyl acetate	0.000	0.000	0.0	70	-0.02
17	T	Iodomethane	0.615	0.584	5.0	82	-0.03
18	T	Methylene chloride	0.436	0.384	11.9	79	-0.03
19	T	Carbon disulfide	1.106	0.999	9.7	84	-0.02
20	T	Acrylonitrile	0.033	0.034	-3.0	86	-0.02
21	T	tert-Butyl methyl ether (MT	0.466	0.446	4.3	84	0.00
22	T	trans-1,2-Dichloroethene	0.606	0.568	6.3	79	-0.02
23	T	Isopropyl ether (DIPE)	1.111	1.030	7.3	79	-0.02
24	T	Vinyl acetate	0.327	0.360	-10.1	88	-0.02
25	P,T	1,1-Dichloroethane	0.693	0.658	5.1	81	-0.02
26	T	2-Butanol	0.008	0.000	100.0#	1#	-0.06
27	T	tert-Butyl ethyl ether (ETB	0.776	0.726	6.4	83	-0.02
28	T	2-Butanone	0.063	0.062	1.6	86	-0.02
29	T	2,2-Dichloropropane	0.361	0.423	-17.2	95	-0.02
30	T	cis-1,2-Dichloroethene	0.390	0.362	7.2	80	-0.02
31	C,T	Chloroform	0.829	0.825	0.5	86	-0.02
32	T	Bromochloromethane	0.304	0.291	4.3	84	-0.02
33	T	Tetrahydrofuran	0.036	0.029	19.4	74	-0.02
34	S	Dibromofluoromethane	0.429	0.449	-4.7	92	-0.02
35	T	1,1,1-Trichloroethane	0.670	0.708	-5.7	88	-0.02
36	T	Cyclohexane	0.000	0.000	0.0	87	0.00
37	T	tert-Amyl methyl ether (TAM	0.131	0.123	6.1	84	-0.02
38	S	1,2-Dichloroethane-d4	0.421	0.435	-3.3	93	-0.02
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	85	-0.03
40	T	1,1-Dichloropropene	0.199	0.184	7.5	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CV003B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.717	0.740	-3.2	87	-0.02
42	T	1,2-Dichloroethane	0.538	0.533	0.9	89	-0.03
43	T	Benzene	1.590	1.403	11.8	81	-0.01
44	T	Trichloroethene	0.436	0.405	7.1	83	-0.02
45	T	Methylcyclohexane	0.000	0.000	0.0	80	-0.02
46	C,T	1,2-Dichloropropane	0.387	0.346	10.6	79	-0.02
47	T	1,4-Dioxane	0.001	0.001	0.0	85	-0.02
48	T	Bromodichloromethane	0.626	0.638	-1.9	88	-0.03
49	T	Dibromomethane	0.233	0.220	5.6	85	-0.02
50	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.03
51	T	4-Methyl-2-pentanone	0.195	0.200	-2.6	92	-0.02
52	T	cis-1,3-Dichloropropene	0.582	0.595	-2.2	87	-0.02
53	S	Toluene-d8	1.515	1.438	5.1	87	-0.03
54	C,T	Toluene	1.757	1.689	3.9	84	-0.02
55	T	Ethyl methacrylate	0.265	0.262	1.1	84	-0.03
56	T	trans-1,3-Dichloropropene	0.411	0.484	-17.8	90	-0.01
57	T	2-Hexanone	0.131	0.139	-6.1	94	-0.02
58	T	1,1,2-Trichloroethane	0.222	0.214	3.6	86	-0.02
59	T	1,3-Dichloropropane	0.414	0.393	5.1	85	-0.02
60	T	Tetrachloroethene	0.421	0.400	5.0	84	-0.03
61	T	Dibromochloromethane	0.285	0.329	-15.4	89	-0.01
62	T	1,2-Dibromoethane	0.258	0.248	3.9	83	-0.02
63	T	1-Chlorohexane	0.772	0.767	0.6	85	-0.03
64	P	Chlorobenzene	1.021	0.950	7.0	82	-0.02
65	T	1,1,1,2-Tetrachloroethane	0.374	0.381	-1.9	89	-0.03
66	C,T	Ethylbenzene	2.256	2.174	3.6	84	-0.01
67	T	m-Xylene & p-Xylene	1.740	1.704	2.1	85	-0.01
68	T	o-Xylene	1.721	1.663	3.4	85	-0.03
69	T	Styrene	1.102	1.067	3.2	82	-0.02
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	90	-0.03
71	T	Isopropylbenzene	4.990	4.525	9.3	85	-0.01
72	P,T	Bromoform	0.373	0.404	-8.3	91	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	0.657	0.571	13.1	84	-0.02
74	S	4-Bromofluorobenzene	1.538	1.393	9.4	91	-0.02
75	T	1,2,3-Trichloropropane	0.158	0.150	5.1	94	-0.02
76	T	trans-1,4-Dichloro-2-butene	0.127	0.170	-33.9#	108	-0.01
77	T	n-Propylbenzene	6.983	6.444	7.7	85	-0.03
78	T	Bromobenzene	1.105	0.988	10.6	86	-0.02
79	T	1,3,5-Trimethylbenzene	4.311	3.932	8.8	84	-0.03
80	T	2-Chlorotoluene	4.279	3.889	9.1	92	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	3.555	3.320	6.6	81	-0.01
82	T	tert-Butylbenzene	0.729	0.649	11.0	82	-0.02
83	T	1,2,4-Trimethylbenzene	4.132	3.903	5.5	88	-0.01
84	T	sec-Butylbenzene	5.546	5.214	6.0	87	-0.01
85	T	p-Isopropyltoluene	4.109	3.929	4.4	88	-0.01
86	T	1,3-Dichlorobenzene	1.876	1.780	5.1	88	-0.02
87	T	1,4-Dichlorobenzene	1.769	1.669	5.7	87	-0.02
88	T	n-Butylbenzene	4.725	4.715	0.2	87	-0.03
89	T	1,2-Dichlorobenzene	1.493	1.412	5.4	89	-0.02
90	T	1,2-Dibromo-3-chloropropane	0.074	0.076	-2.7	93	-0.03
91	T	1,2,4-Trichlorobenzene	0.820	0.861	-5.0	91	-0.02
92	T	Hexachlorobutadiene	0.754	0.805	-6.8	93	-0.02
93	T	Naphthalene	0.960	0.907	5.5	91	-0.02
94	T	1,2,3-Trichlorobenzene	0.611	0.641	-4.9	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBB482
Instrument ID: T003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/25/11
BFB Injection Time : 09:16
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.76
75	30.0 - 60.0% of mass 95	55.01
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.51
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	66.27
175	5.0 - 9.0% of mass 174	5.58(8.4)1
176	95.0 - 101.0% of mass 174	64.20(96.9)1
177	5.0 - 9.0% of mass 176	4.20(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV003B1607	RBB484	02/25/11	10:30
2	MBLK4W	V003B29B	RBB489	02/25/11	14:12
3	LCS4W	V003B29L	RBB485	02/25/11	11:07
4	LCD4W	V003B29Y	RBB487	02/25/11	12:58
5	SSI-HP-004	B186-05N	RBB491	02/25/11	15:24
6	SSI-HP-004MS	B186-05G	RBB492	02/25/11	16:00
7	SSI-HP-004MSD	B186-05V	RBB493	02/25/11	16:36
8	SSI-HP-005DL	B186-06T	RBB496	02/25/11	18:24

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBB361
Instrument ID: T003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/16/11
Time Analyzed: 18:45
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1883214	13.43	1714888	18.55	687853	23.11
	UPPER LIMIT	3766428	13.93	3429776	19.05	1375706	23.61
	LOWER LIMIT	941607	12.93	857444	18.05	343927	22.61
	SAMPLE ID						
1	VSTD010	1818508	13.42	1632594	18.54	682883	23.10
2	MBLK4W	1820853	13.42	1584645	18.54	631256	23.10
3	LCS4W	1732951	13.42	1595040	18.54	689510	23.10
4	LCD4W	1666312	13.42	1524998	18.54	641825	23.11
5	SSI-HP-004	1741419	13.44	1621933	18.55	628548	23.10
6	SSI-HP-004MS	1749133	13.43	1606247	18.55	683161	23.11
7	SSI-HP-004MSD	1797495	13.44	1609499	18.54	654589	23.12
8	SSI-HP-005DL	1525572	13.43	1384246	18.56	518343	23.11

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000		0.0	97	-0.02
2	T	Dichlorodifluoromethane	10.000	9.651		3.5	84	-0.02
3	T	Dichlorotetrafluoroethane	-1.000	0.000		0.0	84	-0.02
4	P,T	Chloromethane	10.000	9.673		3.3	86	-0.01
5	C,T	Vinyl chloride	10.000	9.839		1.6	88	0.00
6	T	Bromomethane	10.000	9.277		7.2	82	-0.02
7	T	Chloroethane	10.000	9.083		9.2	78	0.00
8	T	Dichlorofluoromethane	10.000	9.232		7.7	91	-0.01
9	T	Trichlorofluoromethane	10.000	10.094		-0.9	87	-0.02
10	T	Acrolein	50.000	49.797		0.4	111	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	8.867		11.3	88	-0.02
12	T	Acetone	50.000	47.437		5.1	105	0.00
13	C,T	1,1-Dichloroethene	10.000	8.841		11.6	86	-0.02
14	T	tert-Butyl alcohol	50.000	41.182		17.6	93	0.00
15	T	Acetonitrile	100.000	74.782	NT	25.2#	88	0.00
16	T	Methyl acetate	-1.000	0.000		0.0	92	-0.02
17	T	Iodomethane	10.000	8.870		11.3	88	-0.02
18	T	Methylene chloride	10.000	8.500		15.0	88	-0.02
19	T	Carbon disulfide	10.000	9.272		7.3	99	-0.02
20	T	Acrylonitrile	50.000	50.673		-1.3	100	0.00
21	T	tert-Butyl methyl ether (MT	10.000	9.534		4.7	97	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.176		8.2	89	-0.02
23	T	Isopropyl ether (DIPE)	10.000	9.333		6.7	92	-0.02
24	T	Vinyl acetate	10.000	11.046		-10.5	102	-0.02
25	P,T	1,1-Dichloroethane	10.000	9.141		8.6	90	-0.02
26	T	2-Butanol	50.000	1.407	NT	97.2#	3	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.408		5.9	96	-0.02
28	T	2-Butanone	50.000	49.493		1.0	100	-0.02
29	T	2,2-Dichloropropane	10.000	10.808		-8.1	102	-0.02
30	T	cis-1,2-Dichloroethene	10.000	9.248		7.5	92	-0.02
31	C,T	Chloroform	10.000	9.335		6.6	93	-0.02
32	T	Bromochloromethane	10.000	9.254		7.5	94	-0.02
33	T	Tetrahydrofuran	10.000	8.896		11.0	97	-0.02
34	S	Dibromofluoromethane	10.000	10.004		-0.0	102	-0.02
35	T	1,1,1-Trichloroethane	10.000	9.729		2.7	94	0.00
36	T	Cyclohexane	-1.000	0.000		0.0	86	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	9.756		2.4	101	-0.02
38	S	1,2-Dichloroethane-d4	10.000	10.158		-1.6	106	-0.02
39	I	CHLOROBENZENE-D5	10.000	10.000		0.0	95	-0.02
40	T	1,1-Dichloropropene	10.000	8.816		11.8	87	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D Vial: 4
Acq On : 25 Feb 2011 10:30 am Operator: MW
Sample : CVO03B1607 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	9.779	2.2	92	-0.02
42	T	1,2-Dichloroethane	10.000	10.003	-0.0	100	-0.02
43	T	Benzene	10.000	8.561	14.4	88	-0.01
44	T	Trichloroethene	10.000	9.002	10.0	90	-0.02
45	T	Methylcyclohexane	-1.000	0.000	0.0	91	-0.02
46	C,T	1,2-Dichloropropane	10.000	9.006	9.9	89	-0.02
47	T	1,4-Dioxane	200.000	169.180	15.4	99	0.00
48	T	Bromodichloromethane	10.000	9.673	3.3	93	-0.02
49	T	Dibromomethane	10.000	9.661	3.4	97	0.00
50	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.01
51	T	4-Methyl-2-pentanone	50.000	54.779	-9.6	110	-0.02
52	T	cis-1,3-Dichloropropene	10.000	10.008	-0.1	95	-0.02
53	S	Toluene-d8	10.000	9.385	6.2	96	-0.02
54	C,T	Toluene	10.000	9.050	9.5	89	0.00
55	T	Ethyl methacrylate	10.000	10.092	-0.9	96	-0.02
56	T	trans-1,3-Dichloropropene	10.000	11.735	-17.3	100	-0.01
57	T	2-Hexanone	50.000	55.082	-10.2	108	0.00
58	T	1,1,2-Trichloroethane	10.000	9.416	5.8	93	-0.02
59	T	1,3-Dichloropropane	10.000	9.575	4.3	96	-0.02
60	T	Tetrachloroethene	10.000	9.166	8.3	90	-0.02
61	T	Dibromochloromethane	10.000	11.496	-15.0	99	0.00
62	T	1,2-Dibromoethane	10.000	9.652	3.5	93	-0.02
63	T	1-Chlorohexane	10.000	9.192	8.1	88	-0.02
64	P	Chlorobenzene	10.000	9.229	7.7	91	-0.02
65	T	1,1,1,2-Tetrachloroethane	10.000	9.873	1.3	97	-0.02
66	C,T	Ethylbenzene	10.000	9.283	7.2	90	-0.01
67	T	m-Xylene & p-Xylene	20.000	18.691	6.5	91	0.00
68	T	o-Xylene	10.000	9.227	7.7	91	-0.01
69	T	Styrene	10.000	9.615	3.8	91	-0.02
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	99	-0.02
71	T	Isopropylbenzene	10.000	8.763	12.4	90	-0.01
72	P,T	Bromoform	10.000	9.611	3.9	104	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	10.000	9.067	9.3	97	-0.02
74	S	4-Bromofluorobenzene	10.000	9.109	8.9	100	-0.02
75	T	1,2,3-Trichloropropane	10.000	9.488	5.1	103	-0.02
76	T	trans-1,4-Dichloro-2-butene	10.000	11.057	-10.6	117	-0.01
77	T	n-Propylbenzene	10.000	8.829	11.7	90	-0.01
78	T	Bromobenzene	10.000	8.967	10.3	95	-0.02
79	T	1,3,5-Trimethylbenzene	10.000	9.023	9.8	92	-0.01
80	T	2-Chlorotoluene	10.000	8.255	17.4	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	9.757	2.4	94	-0.01
82	T	tert-Butylbenzene	10.000	8.961	10.4	91	-0.02
83	T	1,2,4-Trimethylbenzene	10.000	9.208	7.9	94	0.00
84	T	sec-Butylbenzene	10.000	9.027	9.7	92	-0.01
85	T	p-Isopropyltoluene	10.000	9.317	6.8	94	-0.01
86	T	1,3-Dichlorobenzene	10.000	9.383	6.2	96	-0.02
87	T	1,4-Dichlorobenzene	10.000	9.258	7.4	94	0.00
88	T	n-Butylbenzene	10.000	9.394	6.1	90	-0.01
89	T	1,2-Dichlorobenzene	10.000	9.223	7.8	95	-0.02
90	T	1,2-Dibromo-3-chloropropane	10.000	10.336	-3.4	104	-0.01
91	T	1,2,4-Trichlorobenzene	10.000	10.514	-5.1	100	0.00
92	T	Hexachlorobutadiene	10.000	10.088	-0.9	97	-0.02
93	T	Naphthalene	10.000	9.932	0.7	105	-0.02
94	T	1,2,3-Trichlorobenzene	10.000	10.591	-5.9	102	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	97	-0.02
2	T	Dichlorodifluoromethane	0.424	0.410	3.3	84	-0.02
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	84	-0.02
4	P,T	Chloromethane	0.434	0.419	3.5	86	-0.01
5	C,T	Vinyl chloride	0.383	0.377	1.6	88	0.00
6	T	Bromomethane	0.283	0.262	7.4	82	-0.02
7	T	Chloroethane	0.168	0.152	9.5	78	0.00
8	T	Dichlorofluoromethane	0.690	0.637	7.7	91	-0.01
9	T	Trichlorofluoromethane	0.535	0.540	-0.9	87	-0.02
10	T	Acrolein	0.009	0.009	0.0	111	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	0.217	0.193	11.1	88	-0.02
12	T	Acetone	0.042	0.039	7.1	105	0.00
13	C,T	1,1-Dichloroethene	0.638	0.564	11.6	86	-0.02
14	T	tert-Butyl alcohol	0.012	0.010	16.7	93	0.00
15	T	Acetonitrile	0.003	0.002	33.3#	88	0.00
16	T	Methyl acetate	0.000	0.000	0.0	92	-0.02
17	T	Iodomethane	0.615	0.546	11.2	88	-0.02
18	T	Methylene chloride	0.436	0.371	14.9	88	-0.02
19	T	Carbon disulfide	1.106	1.025	7.3	99	-0.02
20	T	Acrylonitrile	0.033	0.034	-3.0	100	0.00
21	T	tert-Butyl methyl ether (MT	0.466	0.444	4.7	97	0.00
22	T	trans-1,2-Dichloroethene	0.606	0.556	8.3	89	-0.02
23	T	Isopropyl ether (DIPE)	1.111	1.037	6.7	92	-0.02
24	T	Vinyl acetate	0.327	0.361	-10.4	102	-0.02
25	P,T	1,1-Dichloroethane	0.693	0.633	8.7	90	-0.02
26	T	2-Butanol	0.008	0.000	100.0#	3#	0.00
27	T	tert-Butyl ethyl ether (ETB	0.776	0.730	5.9	96	-0.02
28	T	2-Butanone	0.063	0.063	0.0	100	-0.02
29	T	2,2-Dichloropropane	0.361	0.390	-8.0	102	-0.02
30	T	cis-1,2-Dichloroethene	0.390	0.361	7.4	92	-0.02
31	C,T	Chloroform	0.829	0.774	6.6	93	-0.02
32	T	Bromochloromethane	0.304	0.282	7.2	94	-0.02
33	T	Tetrahydrofuran	0.036	0.032	11.1	97	-0.02
34	S	Dibromofluoromethane	0.429	0.429	0.0	102	-0.02
35	T	1,1,1-Trichloroethane	0.670	0.651	2.8	94	0.00
36	T	Cyclohexane	0.000	0.000	0.0	86	0.00
37	T	tert-Amyl methyl ether (TAM	0.131	0.128	2.3	101	-0.02
38	S	1,2-Dichloroethane-d4	0.421	0.427	-1.4	106	-0.02
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	95	-0.02
40	T	1,1-Dichloropropene	0.199	0.176	11.6	87	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CV003B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.717	0.701	2.2	92	-0.02
42	T	1,2-Dichloroethane	0.538	0.539	-0.2	100	-0.02
43	T	Benzene	1.590	1.361	14.4	88	-0.01
44	T	Trichloroethene	0.436	0.392	10.1	90	-0.02
45	T	Methylcyclohexane	0.000	0.000	0.0	91	-0.02
46	C,T	1,2-Dichloropropane	0.387	0.349	9.8	89	-0.02
47	T	1,4-Dioxane	0.001	0.001	0.0	99	0.00
48	T	Bromodichloromethane	0.626	0.605	3.4	93	-0.02
49	T	Dibromomethane	0.233	0.225	3.4	97	0.00
50	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.01
51	T	4-Methyl-2-pentanone	0.195	0.214	-9.7	110	-0.02
52	T	cis-1,3-Dichloropropene	0.582	0.582	0.0	95	-0.02
53	S	Toluene-d8	1.515	1.422	6.1	96	-0.02
54	C,T	Toluene	1.757	1.590	9.5	89	0.00
55	T	Ethyl methacrylate	0.265	0.268	-1.1	96	-0.02
56	T	trans-1,3-Dichloropropene	0.411	0.483	-17.5	100	-0.01
57	T	2-Hexanone	0.131	0.144	-9.9	108	0.00
58	T	1,1,2-Trichloroethane	0.222	0.209	5.9	93	-0.02
59	T	1,3-Dichloropropane	0.414	0.397	4.1	96	-0.02
60	T	Tetrachloroethene	0.421	0.386	8.3	90	-0.02
61	T	Dibromochloromethane	0.285	0.328	-15.1	99	0.00
62	T	1,2-Dibromoethane	0.258	0.249	3.5	93	-0.02
63	T	1-Chlorohexane	0.772	0.710	8.0	88	-0.02
64	P	Chlorobenzene	1.021	0.942	7.7	91	-0.02
65	T	1,1,1,2-Tetrachloroethane	0.374	0.369	1.3	97	-0.02
66	C,T	Ethylbenzene	2.256	2.094	7.2	90	-0.01
67	T	m-Xylene & p-Xylene	1.740	1.626	6.6	91	0.00
68	T	o-Xylene	1.721	1.588	7.7	91	-0.01
69	T	Styrene	1.102	1.060	3.8	91	-0.02
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	-0.02
71	T	Isopropylbenzene	4.990	4.373	12.4	90	-0.01
72	P,T	Bromoform	0.373	0.420	-12.6	104	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	0.657	0.596	9.3	97	-0.02
74	S	4-Bromofluorobenzene	1.538	1.401	8.9	100	-0.02
75	T	1,2,3-Trichloropropane	0.158	0.150	5.1	103	-0.02
76	T	trans-1,4-Dichloro-2-butene	0.127	0.168	-32.3#	117	-0.01
77	T	n-Propylbenzene	6.983	6.165	11.7	90	-0.01
78	T	Bromobenzene	1.105	0.991	10.3	95	-0.02
79	T	1,3,5-Trimethylbenzene	4.311	3.890	9.8	92	-0.01
80	T	2-Chlorotoluene	4.279	3.533	17.4	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CV003B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	3.555	3.469	2.4	94	-0.01
82	T	tert-Butylbenzene	0.729	0.654	10.3	91	-0.02
83	T	1,2,4-Trimethylbenzene	4.132	3.805	7.9	94	0.00
84	T	sec-Butylbenzene	5.546	5.006	9.7	92	-0.01
85	T	p-Isopropyltoluene	4.109	3.828	6.8	94	-0.01
86	T	1,3-Dichlorobenzene	1.876	1.761	6.1	96	-0.02
87	T	1,4-Dichlorobenzene	1.769	1.638	7.4	94	0.00
88	T	n-Butylbenzene	4.725	4.439	6.1	90	-0.01
89	T	1,2-Dichlorobenzene	1.493	1.377	7.8	95	-0.02
90	T	1,2-Dibromo-3-chloropropane	0.074	0.077	-4.1	104	-0.01
91	T	1,2,4-Trichlorobenzene	0.820	0.862	-5.1	100	0.00
92	T	Hexachlorobutadiene	0.754	0.761	-0.9	97	-0.02
93	T	Naphthalene	0.960	0.954	0.6	105	-0.02
94	T	1,2,3-Trichlorobenzene	0.611	0.647	-5.9	102	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SUMMARY PACKAGE
VOLATILE ORGANICS
(SOIL)

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

One (1) soil sample was received on 02/17/11 for Volatile Organics by GC/MS analysis, Method 5035/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Sample was analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for VOF4B18L/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : T-OF4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VOF4B18B	1	NA	02/17/1109:52	02/17/1109:52	RBN282	RBN141	VOF4B18	Method Blank
LCS1S	VOF4B18L	1	NA	02/17/1108:58	02/17/1108:58	RBN280	RBN141	VOF4B18	Lab Control Sample (LCS)
LCD1S	VOF4B18C	1	NA	02/17/1109:25	02/17/1109:25	RBN281	RBN141	VOF4B18	LCS Duplicate
MBLK2S	VPB017SB	1	NA	02/17/1113:33	02/17/1113:33	RBN290	RBN141	VOF4B18	Method Blank
SSI-SS-001	B186-12	0.9	19.8	02/17/1114:01	02/17/1114:01	RBN291	RBN141	VOF4B18	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/16/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/17/11 14:01
Sample ID: SSI-SS-001	Date Analyzed: 02/17/11 14:01
Lab Samp ID: B186-12	Dilution Factor: 0.9
Lab File ID: RBN291	Matrix : SOIL
Ext Btch ID: VOF4B18	% Moisture : 19.8
Calib. Ref.: RBN141	Instrument ID : T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.6	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,2-TRICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHENE	ND	5.6	1.1
1,2-DICHLOROETHANE	ND	5.6	1.1
2-BUTANONE	ND	11	5.6
2-HEXANONE	ND	11	5.6
4-METHYL-2-PENTANONE	ND	11	5.6
BENZENE	ND	5.6	1.1
BROMODICHLOROMETHANE	ND	5.6	1.1
BROMOFORM	ND	5.6	2.2
CARBON DISULFIDE	ND	5.6	1.1
CARBON TETRACHLORIDE	ND	5.6	1.1
CHLOROBENZENE	ND	5.6	1.1
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	1.1
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	1.1
DIBROMOCHLOROMETHANE	ND	5.6	1.1
ETHYLBENZENE	ND	5.6	1.1
M/P-XYLENES	ND	11	2.2
METHYLENE CHLORIDE	ND	11	2.2
METHYL TERT-BUTYL ETHER	ND	5.6	1.1
O-XYLENE	ND	5.6	1.1
TETRACHLOROETHENE	ND	5.6	1.1
TOLUENE	ND	5.6	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.6	1.1
TRICHLOROETHENE	ND	5.6	1.1
VINYL CHLORIDE	ND	5.6	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.6	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.6	1.1
DICHLORODIFLUOROMETHANE	ND	11	2.2
ISOPROPYLBENZENE	ND	5.6	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.5	56.11	106	70-120
4-BROMOFLUOROBENZENE	62.4	56.11	111	75-120
TOLUENE-D8	58.5	56.11	104	85-120
DIBROMOFLUOROMETHANE	58.5	56.11	104	85-115

QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/17/11 09:52
Sample ID:	MBLK1S	Date Analyzed:	02/17/11 09:52
Lab Samp ID:	VOF4B18B	Dilution Factor:	1
Lab File ID:	RBN282	Matrix :	SOIL
Ext Btch ID:	VOF4B18	% Moisture :	NA
Calib. Ref.:	RBN141	Instrument ID :	T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
METHYLENE CHLORIDE	ND	10	2.0
METHYL TERT-BUTYL ETHER	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL CHLORIDE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	10	2.0
ISOPROPYLBENZENE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.6	50.00	105	70-120
4-BROMOFLUOROBENZENE	52.8	50.00	106	75-120
TOLUENE-D8	51.4	50.00	103	85-120
DIBROMOFLUOROMETHANE	51.7	50.00	103	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5035/8260B

MATRIX: SOIL % MOISTURE: NA

DILUTION FACTOR:	1	1	1
SAMPLE ID:	MBLK1S		
LAB SAMP ID:	VOF4B18B	VOF4B18L	VOF4B18C
LAB FILE ID:	RBN282	RBN280	RBN281
DATE EXTRACTED:	02/17/1109:52	02/17/1108:58	02/17/1109:25
DATE ANALYZED:	02/17/1109:52	02/17/1108:58	02/17/1109:25
PREP. BATCH:	VOF4B18	VOF4B18	VOF4B18
CALIB. REF:	RBN141	RBN141	RBN141

DATE COLLECTED: NA
DATE RECEIVED: 02/17/11

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	50.0	51.8	104	50.0	52.4	105	1	70-135	30
1,1,2,2-Tetrachloroethane	ND	50.0	44.9	90	50.0	44.4	89	1	55-130	30
1,1,2-Trichloroethane	ND	50.0	46.7	93	50.0	46.8	94	0	60-125	30
1,1-Dichloroethane	ND	50.0	50.4	101	50.0	51.2	102	2	75-125	30
1,1-Dichloroethene	ND	50.0	50.5	101	50.0	51.0	102	1	65-135	30
1,2-Dichloroethane	ND	50.0	47.5	95	50.0	47.8	96	1	70-125	30
2-Butanone	ND	250	226	90	250	208	83	8	30-160	30
2-Hexanone	ND	250	226	90	250	206	82	9	45-145	30
4-Methyl-2-Pentanone	ND	250	223	89	250	207	83	7	45-145	30
Benzene	ND	50.0	42.7	85	50.0	43.4	87	2	75-125	30
Bromodichloromethane	ND	50.0	47.1	94	50.0	48.0	96	2	70-130	30
Bromoform	ND	50.0	49.0	98	50.0	49.1	98	0	55-135	30
Carbon Disulfide	ND	50.0	52.8	106	50.0	50.1	100	5	45-160	30
Carbon Tetrachloride	ND	50.0	49.4	99	50.0	50.5	101	2	65-135	30
Chlorobenzene	ND	50.0	46.5	93	50.0	47.2	94	1	75-125	30
Chloroethane	ND	50.0	52.2	104	50.0	50.4	101	4	40-155	30
Chloroform	ND	50.0	51.9	104	50.0	52.7	105	1	70-125	30
Chloromethane	ND	50.0	43.2	86	50.0	44.1	88	2	50-130	30
cis-1,2-Dichloroethene	ND	50.0	46.7	93	50.0	47.6	95	2	65-130	30
Dibromochloromethane	ND	50.0	48.9	98	50.0	49.0	98	0	65-130	30
Ethylbenzene	ND	50.0	45.9	92	50.0	46.3	93	1	75-125	30
m/p-Xylenes	ND	100	90.4	90	100	92.5	92	2	80-125	30
Methylene Chloride	ND	50.0	46.0	92	50.0	46.4	93	1	55-140	30
Methyl Tert-Butyl Ether	ND	50.0	48.2	96	50.0	47.4	95	2	65-125	30
o-Xylene	ND	50.0	45.1	90	50.0	45.7	91	1	75-125	30
Tetrachloroethene	ND	50.0	47.0	94	50.0	48.4	97	3	65-140	30
Toluene	ND	50.0	42.4	85	50.0	43.4	87	2	70-125	30
Trans-1,2-Dichloroethene	ND	50.0	47.0	94	50.0	47.7	95	1	65-135	50
Trichloroethene	ND	50.0	46.0	92	50.0	46.6	93	1	75-125	30
Vinyl Chloride	ND	50.0	54.7	109	50.0	53.0	106	3	60-125	30
1,2,4-Trimethylbenzene	ND	50.0	46.4	93	50.0	47.6	95	3	65-135	30
1,3,5-Trimethylbenzene	ND	50.0	44.8	90	50.0	45.8	92	2	65-133	30
Dichlorodifluoromethane	ND	50.0	49.8	100	50.0	48.2	96	3	35-135	30
Isopropylbenzene	ND	50.0	46.8	94	50.0	47.7	95	2	75-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	53.0	106	50.0	52.3	105	70-120
4-Bromofluorobenzene	50.0	53.0	106	50.0	52.7	105	75-120
Toluene-d8	50.0	51.1	102	50.0	51.4	103	85-120
Dibromofluoromethane	50.0	53.5	107	50.0	53.0	106	85-115

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/17/11 13:33
Sample ID: MBLK2S	Date Analyzed: 02/17/11 13:33
Lab Samp ID: VPB017SB	Dilution Factor: 1
Lab File ID: RBN290	Matrix : SOIL
Ext Btch ID: VOF4B18	% Moisture : NA
Calib. Ref.: RBN141	Instrument ID : T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
METHYLENE CHLORIDE	ND	10	2.0
METHYL TERT-BUTYL ETHER	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL CHLORIDE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	10	2.0
ISOPROPYLBENZENE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	55.1	50.00	110	70-120
4-BROMOFLUOROBENZENE	52.7	50.00	105	75-120
TOLUENE-D8	51.2	50.00	102	85-120
DIBROMOFLUOROMETHANE	53.0	50.00	106	85-115

INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN135
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/09/11
BFB Injection Time : 09:53
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.39
75	30.0 - 60.0% of mass 95	46.55
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	0.67(0.9)1
174	Greater than 50% of mass 95	75.68
175	5.0 - 9.0% of mass 174	5.77(7.6)1
176	95.0 - 101.0% of mass 174	73.36(96.9)1
177	5.0 - 9.0% of mass 176	4.80(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD01	VOF4B091	RBN136	02/09/11	10:21
2	VSTD02	VOF4BD92	RBN137	02/09/11	10:48
3	VSTD04	VOF4B093	RBN138	02/09/11	11:16
4	VSTD010	VOF4B094	RBN139	02/09/11	11:44
5	VSTD050	VOF4B096	RBN141	02/09/11	12:47
6	VSTD100	VOF4B097	RBN142	02/09/11	13:15
7	VSTD200	VOF4B098	RBN143	02/09/11	13:43
8	VSTD300	VOF4B099	RBN144	02/09/11	14:11
9	VSTD500	VOF4B0910	RBN145	02/09/11	14:39

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN150
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/10/11
BFB Injection Time : 09:39
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.20
75	30.0 - 60.0% of mass 95	46.34
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	0.68(0.9)1
174	Greater than 50% of mass 95	76.87
175	5.0 - 9.0% of mass 174	5.46(7.1)1
176	95.0 - 101.0% of mass 174	73.57(95.7)1
177	5.0 - 9.0% of mass 176	4.83(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	IVOF4B092	RBN151	02/10/11	10:07

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :F4
Beginning DateTime :02/09/11 10:21
Spike Units :PPB
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09

M	IDX	Parameters	1 10:21 RBN136	2 10:48 RBN137	4 11:16 RBN138	10 11:44 RBN139	50 12:47 RBN141	100 13:15 RBN142	200 13:43 RBN143	300 14:11 RBN144	500 14:39 RBN145	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	12.5551
	2	Dichlorodifluoromethane	0.300	0.305	0.314	0.322	0.295	0.313	0.298	0.301	0.284	0.303	3.73	3.6079
	3	Chloromethane	0.330	0.312	0.309	0.318	0.275	0.310	0.329	0.339	0.331	0.317	5.96	4.0921
	4	Vinyl chloride	0.242	0.264	0.275	0.290	0.267	0.274	0.249	0.239	0.220	0.258	8.47	4.3171
	5	Bromomethane	0.299	0.290	0.284	0.276	0.249	0.257	0.260	0.267	0.259	0.271	6.28	5.2195
	6	Chloroethane	0.219	0.237	0.251	0.271	0.266	0.282	0.272	0.272	0.259	0.259	7.66	5.3736
	7	Dichlorofluoromethane	0.637	0.657	0.655	0.632	0.649	0.638	0.662	0.657	0.647	0.648	1.61	5.4458
	8	Trichlorofluoromethane	0.453	0.462	0.482	0.496	0.464	0.499	0.481	0.486	0.458	0.476	3.51	5.8897
5	9	Acrolein	0.035	0.029	0.036	0.038	0.036	0.039	0.041	0.039	0.039	0.037	9.92	6.7163
	10	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.197	0.204	0.204	0.205	0.201	0.200	0.204	0.206	0.199	0.202	1.59	6.7407
5	11	Acetone	0.158	0.107	0.099	0.088	0.076	0.082	0.086	0.080	0.082	0.095	26.72	6.8239
	12	1,1-Dichloroethene	0.507	0.519	0.497	0.497	0.510	0.500	0.518	0.518	0.509	0.508	1.78	7.0990
5	13	tert-Butyl alcohol	------	------	0.031	0.030	0.026	0.028	0.032	0.030	0.031	0.030	7.20	7.2035
10	14	Acetonitrile	0.035	0.035	0.035	0.034	0.033	0.033	0.037	0.035	0.035	0.035	3.59	7.3362
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.123	0.168	0.202	0.284	0.414	0.430	0.453	0.444	0.436	0.328	40.84	7.7031
	17	Allyl chloride	------	0.122	0.133	0.133	0.140	0.140	0.143	0.140	0.137	0.136	4.93	7.7899
	18	Methylene chloride	------	0.721	0.639	0.566	0.551	0.537	0.553	0.540	0.526	0.579	11.61	7.9990
	19	Carbon disulfide	1.393	1.032	1.042	1.018	0.997	1.062	1.042	1.046	------	1.079	11.90	8.0760
5	20	Acrylonitrile	0.125	0.109	0.127	0.127	0.117	0.125	0.131	0.122	0.123	0.123	5.38	8.2179
	21	tert-Butyl methyl ether (MTBE)	0.711	0.692	0.701	0.667	0.676	0.690	0.735	0.706	0.708	0.698	2.87	8.2533
	22	trans-1,2-Dichloroethene	0.545	0.544	0.537	0.536	0.549	0.538	0.554	0.549	0.538	0.543	1.20	8.5517
	23	Isopropyl ether (DIPE)	1.373	1.402	1.381	1.351	1.395	1.386	1.447	1.403	1.372	1.390	1.95	9.0689
	24	Vinyl acetate	------	0.471	0.514	0.558	0.575	0.630	0.638	0.623	0.601	0.576	10.29	9.2797
	25	1,1-Dichloroethane	0.622	0.628	0.618	0.609	0.630	0.618	0.633	0.627	0.612	0.622	1.34	9.3208
	26	tert-Butyl ethyl ether (ETBE)	1.128	1.134	1.144	1.092	1.135	1.144	1.211	1.177	1.172	1.148	2.99	9.8002
5	27	2-Butanone	0.157	0.134	0.148	0.147	0.133	0.146	0.155	0.143	0.149	0.146	5.69	10.0264
10	28	Propionitrile	0.044	0.045	0.046	0.043	0.042	0.044	0.048	0.045	0.046	0.045	3.88	10.1670
	29	2,2-Dichloropropane	0.393	0.387	0.395	0.409	0.415	0.423	0.435	0.438	0.429	0.414	4.62	10.3198
	30	cis-1,2-Dichloroethene	0.315	0.320	0.314	0.312	0.324	0.317	0.328	0.322	0.315	0.319	1.61	10.4018
20	31	Isobutyl alcohol	0.013	0.013	0.013	0.013	0.013	0.014	0.015	0.013	0.012	0.013	5.08	10.5241
10	32	Methacrylonitrile	0.064	0.054	0.055	0.053	0.051	0.051	0.054	0.049	0.047	0.053	8.70	10.5192
	33	Chloroform	0.524	0.503	0.515	0.504	0.512	0.504	0.521	0.513	0.505	0.511	1.52	10.6744
	34	tert-Amyl alcohol (TAA)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Bromochloromethane	0.337	0.362	0.360	0.359	0.358	0.350	0.362	0.352	0.345	0.354	2.47	10.9802
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	Dibromofluoromethane	0.245	0.286	0.321	0.328	0.334	0.356	0.349	0.347	------	0.321	11.77	11.0571
	38	1,1,1-Trichloroethane	0.418	0.429	0.436	0.437	0.450	0.445	0.458	0.459	0.450	0.443	3.10	11.3824
	39	tert-Amyl methyl ether (TAME)	0.129	0.161	0.160	0.160	0.165	0.170	0.182	0.175	0.174	0.164	9.25	11.7970
	40	1,2-Dichloroethane-d4	0.258	0.311	0.325	0.334	0.328	0.351	0.346	0.340	------	0.324	9.09	11.9168
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.3766
	42	1,1-Dichloropropene	0.142	0.156	0.157	0.166	0.170	0.168	0.171	0.172	0.167	0.163	6.00	11.6515
	43	Carbon tetrachloride	0.434	0.430	0.437	0.453	0.462	0.461	0.471	0.477	0.467	0.455	3.80	11.8410
	44	1,2-Dichloroethane	0.474	0.469	0.470	0.465	0.467	0.463	0.480	0.469	0.469	0.470	1.08	12.0807
	45	Benzene	1.404	1.317	1.282	1.240	1.243	1.215	1.240	1.231	1.204	1.264	4.96	12.1296
	46	Trichloroethene	0.375	0.369	0.372	0.372	0.374	0.366	0.374	0.371	0.363	0.371	1.09	13.1665
	47	1,2-Dichloropropane	0.410	0.415	0.416	0.403	0.419	0.412	0.424	0.419	0.409	0.414	1.53	13.4673
	48	Methyl methacrylate	0.157	0.155	0.162	0.156	0.162	0.168	0.184	0.175	0.179	0.166	6.42	13.4844
	49	Methylcylohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000

SL
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20	50	1,4-Dioxane	------	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	12.42	13.8647
	51	Bromodichloromethane	0.393	0.425	0.420	0.410	0.437	0.436	0.458	0.455	0.452	0.432	5.07	13.8782
	52	Dibromomethane	0.158	0.182	0.189	0.188	0.187	0.189	0.198	0.192	0.191	0.186	6.03	13.9944
	53	2-Chloroethyl vinyl ether	------	0.181	0.180	0.186	0.194	0.201	0.217	0.208	0.212	0.197	7.14	14.3283
5	54	4-Methyl-2-pentanone	0.398	0.360	0.398	0.396	0.363	0.394	0.412	0.381	0.375	0.386	4.58	14.3710
	55	cis-1,3-Dichloropropene	0.446	0.470	0.472	0.473	0.505	0.507	0.529	0.524	0.519	0.494	5.91	14.7891
	56	Toluene-d8	0.918	1.089	1.097	1.163	1.168	1.245	1.195	1.190	------	1.133	8.91	15.2074
	57	Toluene	1.627	1.497	1.394	1.351	1.356	1.324	1.352	1.330	1.296	1.392	7.54	15.3382
	58	Ethyl methacrylate	0.291	0.279	0.297	0.310	0.330	0.344	0.375	0.362	0.367	0.328	10.85	15.4935
	59	trans-1,3-Dichloropropene	0.388	0.389	0.397	0.397	0.433	0.438	0.463	0.455	0.455	0.424	7.31	15.5705
5	60	2-Hexanone	0.233	0.218	0.249	0.254	0.232	0.257	0.271	0.251	0.246	0.246	6.42	15.7784
	61	1,1,2-Trichloroethane	0.253	0.260	0.266	0.263	0.256	0.256	0.268	0.258	0.256	0.260	1.94	15.8285
	62	1,3-Dichloropropane	0.440	0.429	0.446	0.431	0.434	0.429	0.451	0.437	0.436	0.437	1.76	16.1978
	63	Tetrachloroethene	0.296	0.276	0.282	0.282	0.278	0.271	0.275	0.274	0.265	0.278	3.09	16.3189
	64	Dibromochloromethane	0.281	0.303	0.308	0.314	0.340	0.347	0.371	0.363	0.363	0.332	9.57	16.6160
	65	1,2-Dibromoethane	0.275	0.263	0.272	0.273	0.276	0.280	0.296	0.287	0.289	0.279	3.61	16.8911
	66	1-Chlorohexane	0.472	0.459	0.449	0.469	0.470	0.462	0.470	0.466	0.449	0.463	1.90	17.0232
	67	Chlorobenzene	0.986	0.969	0.953	0.937	0.943	0.923	0.940	0.909	0.859	0.935	3.94	17.4304
	68	1,1,1,2-Tetrachloroethane	0.313	0.328	0.334	0.330	0.344	0.343	0.349	0.335	0.315	0.332	3.77	17.4659
	69	Ethylbenzene	1.661	1.591	1.555	1.555	1.551	1.521	1.538	1.498	1.400	1.541	4.57	17.4646
2	70	m-Xylene & p-Xylene	1.323	1.236	1.209	1.211	1.209	1.182	1.198	1.142	1.049	1.195	6.14	17.5625
	71	o-Xylene	1.269	1.242	1.224	1.228	1.240	1.231	1.268	1.237	1.179	1.235	2.15	18.1127
	72	Styrene	0.900	0.915	0.915	0.956	1.000	0.992	1.028	0.999	0.940	0.961	4.79	18.1457
	73	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	20.4898
	74	Isopropylbenzene	3.352	3.334	3.266	3.387	3.390	3.281	3.324	3.253	3.157	3.305	2.24	18.5089
	75	Bromoform	0.379	0.366	0.394	0.401	0.436	0.448	0.481	0.468	0.481	0.428	10.38	18.5969
	76	1,1,2,2-Tetrachloroethane	0.661	0.684	0.694	0.693	0.694	0.684	0.740	0.716	0.730	0.700	3.54	18.7070
	77	4-Bromofluorobenzene	0.843	0.940	0.939	0.998	0.985	1.029	0.991	0.977	------	0.963	5.91	18.8171
	78	1,2,3-Trichloropropane	0.182	0.202	0.203	0.202	0.199	0.195	0.212	0.203	0.207	0.200	4.22	18.8758
	79	trans-1,4-Dichloro-2-butene	0.246	0.227	0.245	0.254	0.262	0.265	0.292	0.284	0.292	0.263	8.62	18.9186
	80	n-Propylbenzene	4.090	3.926	3.846	4.039	4.049	3.923	3.950	3.858	3.666	3.927	3.30	18.9601
	81	Bromobenzene	0.768	0.806	0.809	0.818	0.821	0.793	0.815	0.788	0.770	0.799	2.50	19.0702
	82	1,3,5-Trimethylbenzene	3.111	2.910	2.828	2.908	2.926	2.851	2.894	2.840	2.706	2.886	3.73	19.1252
	83	2-Chlorotoluene	2.706	2.653	2.563	2.612	2.600	2.495	2.520	2.425	2.316	2.543	4.72	19.1912
	84	4-Chlorotoluene	2.269	2.182	2.073	2.148	2.165	2.100	2.160	2.143	2.106	2.150	2.64	19.2353
	85	tert-Butylbenzene	0.563	0.565	0.565	0.598	0.590	0.572	0.576	0.556	0.525	0.568	3.67	19.5116
	86	1,2,4-Trimethylbenzene	2.985	2.898	2.801	2.876	2.921	2.839	2.894	2.825	2.684	2.858	2.99	19.5544
	87	sec-Butylbenzene	3.898	3.761	3.713	3.858	3.852	3.746	3.760	3.693	3.472	3.750	3.35	19.7305
	88	p-Isopropyltoluene	3.107	2.957	2.900	3.075	3.085	3.005	3.044	2.981	2.812	2.996	3.20	19.8625
	89	1,3-Dichlorobenzene	1.740	1.623	1.573	1.610	1.610	1.555	1.595	1.554	1.487	1.594	4.31	20.0166
	90	1,4-Dichlorobenzene	1.690	1.605	1.565	1.571	1.580	1.534	1.575	1.535	1.468	1.569	3.82	20.1156
	91	Benzyl chloride	------	0.646	0.642	0.719	0.982	1.078	------	------	------	0.813	24.95	20.2257
	92	n-Butylbenzene	2.815	2.666	2.624	2.827	2.817	2.766	2.809	2.529	2.425	2.698	5.42	20.2697
	93	1,2-Dichlorobenzene	1.522	1.555	1.486	1.459	1.458	1.421	1.464	1.427	1.378	1.463	3.65	20.5118
	94	1,2-Dibromo-3-chloropropane	------	0.099	0.109	0.119	0.129	0.137	0.150	0.142	0.146	0.129	14.26	21.3345
	95	1,2,4-Trichlorobenzene	0.737	0.730	0.729	0.786	0.877	0.879	0.898	0.863	0.829	0.814	8.55	22.3387
	96	Hexachlorobutadiene	0.490	0.471	0.471	0.482	0.482	0.488	0.487	0.480	0.445	0.477	2.87	22.4732
	97	Naphthalene	------	1.119	1.228	1.426	1.783	1.915	2.061	1.960	1.975	1.683	21.99	22.7239
	98	1,2,3-Trichlorobenzene	0.701	0.653	0.676	0.723	0.791	0.807	0.821	0.778	0.753	0.745	8.01	23.0320

Spike Amount = Nominal Amount * M

Ave_%RSD : 6.2 Max_%RSD : 40.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15

Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
11	Acetone	0.00655	0.08154	0.9995
16	Iodomethane	-0.01071	0.44076	0.9994
91	Benzyl chloride	-0.02719	1.05253	0.9974
97	Naphthalene	-0.05370	1.98195	0.9995

SW
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INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :F4
Beginning DateTime :02/09/11 10:21
Spike Units :PPB
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09

	M	IDX	Parameters	1 10:21 RBN136	2 10:48 RBN137	4 11:16 RBN138	10 11:44 RBN139	50 12:47 RBN141	100 13:15 RBN142	200 13:43 RBN143	300 14:11 RBN144	500 14:39 RBN145	AvDRec	%_RSD	Av_Rt_M
		1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	12.5551
		2	Dichlorodifluoromethane	99	101	104	106	97	103	98	99	94	2.9	3.73	3.6079
		3	Chloromethane	104	98	97	100	87	98	104	107	104	4.3	5.96	4.0921
		4	Vinyl chloride	94	102	107	112	103	106	97	93	85	7	8.47	4.3171
		5	Bromomethane	110	107	105	102	92	95	96	99	96	5.2	6.28	5.2195
		6	Chloroethane	85	92	97	105	103	109	105	105	100	5.9	7.66	5.3736
		7	Dichlorofluoromethane	98	101	101	98	100	98	102	101	100	1.3	1.61	5.4458
		8	Trichlorofluoromethane	95	97	101	104	97	105	101	102	96	3.1	3.51	5.8897
5		9	Acrolein	95	78	97	103	97	105	111	105	105	6.9	9.92	6.7163
		10	1,1,2-Trichloro-1,2,2-Trifluoroethane	98	101	101	101	100	99	101	102	99	1.3	1.59	6.7407
5		11	Acetone	113	91	101	100	91	99	106	98	100	4.6	6.8	6.8239
		12	1,1-Dichloroethene	100	102	98	98	100	98	102	102	100	1.4	1.78	7.0990
5		13	tert-Butyl alcohol	------	------	103	100	87	93	107	100	103	4.8	7.20	7.2035
10		14	Acetonitrile	100	100	100	97	94	94	106	100	100	2.2	3.59	7.3362
		15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
		16	Iodomethane	149	99	76	77	96	99	103	101	99	11.9	21.2	7.7031
		17	Allyl chloride	------	90	98	98	103	103	105	103	101	3.7	4.93	7.7899
		18	Methylene chloride	------	125	110	98	95	93	96	93	91	8.7	11.61	7.9990
		19	Carbon disulfide	129	96	97	94	92	98	97	97	------	7.3	11.90	8.0760
5		20	Acrylonitrile	102	89	103	103	95	102	107	99	100	3.7	5.38	8.2179
		21	tert-Butyl methyl ether (MTBE)	102	99	100	96	97	99	105	101	101	2.2	2.87	8.2533
		22	trans-1,2-Dichloroethene	100	100	99	99	101	99	102	101	99	1	1.20	8.5517
		23	Isopropyl ether (DIPE)	99	101	99	97	100	100	104	101	99	1.4	1.95	9.0689
		24	Vinyl acetate	------	82	89	97	100	109	111	108	104	8.1	10.29	9.2797
		25	1,1-Dichloroethane	100	101	99	98	101	99	102	101	98	1.1	1.34	9.3208
		26	tert-Butyl ethyl ether (ETBE)	98	99	100	95	99	100	105	103	102	2.2	2.99	9.8002
5		27	2-Butanone	108	92	101	101	91	100	106	98	102	4.1	5.69	10.0264
10		28	Propionitrile	98	100	102	96	93	98	107	100	102	3	3.88	10.1670
		29	2,2-Dichloropropane	95	93	95	99	100	102	105	106	104	3.8	4.62	10.3198
		30	cis-1,2-Dichloroethene	99	100	98	98	102	99	103	101	99	1.4	1.61	10.4018
20		31	Isobutyl alcohol	100	100	100	100	100	108	115	100	92	3.4	5.08	10.5241
10		32	Methacrylonitrile	121	102	104	100	96	96	102	92	89	6.1	8.70	10.5192
		33	Chloroform	103	98	101	99	100	99	102	100	99	1.3	1.52	10.6744
		34	tert-Amyl alcohol (TAA)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
		35	Bromochloromethane	95	102	102	101	101	99	102	99	97	2	2.47	10.9802
		36	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
		37	Dibromofluoromethane	76	89	100	102	104	111	109	108	------	8.6	11.77	11.0571
		38	1,1,1-Trichloroethane	94	97	98	99	102	100	103	104	102	2.5	3.10	11.3824
		39	tert-Amyl methyl ether (TAME)	79	98	98	98	101	104	111	107	106	6.2	9.25	11.7970
		40	1,2-Dichloroethane-d4	80	96	100	103	101	108	107	105	------	6.1	9.09	11.9168
		41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.3766
		42	1,1-Dichloropropene	87	96	96	102	104	103	105	106	102	4.8	6.00	11.6515
		43	Carbon tetrachloride	95	95	96	100	102	101	104	105	103	3.2	3.80	11.8410
		44	1,2-Dichloroethane	101	100	100	99	99	99	102	100	100	.8	1.08	12.0807
		45	Benzene	111	104	101	98	98	96	98	97	95	3.7	4.96	12.1296
		46	Trichloroethene	101	99	100	100	101	99	101	100	98	.8	1.09	13.1665
		47	1,2-Dichloropropane	99	100	100	97	101	100	102	101	99	1.2	1.53	13.4673
		48	Methyl methacrylate	95	93	98	94	98	101	111	105	108	5.4	6.42	13.4844
		49	Methylcylohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000

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20	50	1,4-Dioxane	------	100	100	100	100	100	100	100	100	0	12.42	13.8647
	51	Bromodichloromethane	91	98	97	95	101	101	106	105	105	4.1	5.07	13.8782
	52	Dibromomethane	85	98	102	101	101	102	106	103	103	3.8	6.03	13.9944
	53	2-Chloroethyl vinyl ether	------	92	91	94	98	102	110	106	108	6.2	7.14	14.3283
5	54	4-Methyl-2-pentanone	103	93	103	103	94	102	107	99	97	3.8	4.58	14.3710
	55	cis-1,3-Dichloropropene	90	95	96	96	102	103	107	106	105	5.2	5.91	14.7891
	56	Toluene-d8	81	96	97	103	103	110	105	105	------	6.5	8.91	15.2074
	57	Toluene	117	108	100	97	97	95	97	96	93	5.5	7.54	15.3382
	58	Ethyl methacrylate	89	85	91	95	101	105	114	110	112	9.2	10.85	15.4935
	59	trans-1,3-Dichloropropene	92	92	94	94	102	103	109	107	107	6.5	7.31	15.5705
5	60	2-Hexanone	95	89	101	103	94	104	110	102	100	4.8	6.42	15.7784
	61	1,1,2-Trichloroethane	97	100	102	101	98	98	103	99	98	1.6	1.94	15.8285
	62	1,3-Dichloropropane	101	98	102	99	99	98	103	100	100	1.3	1.76	16.1978
	63	Tetrachloroethene	106	99	101	101	100	97	99	99	95	2.2	3.09	16.3189
	64	Dibromochloromethane	85	91	93	95	102	105	112	109	109	8.2	9.57	16.6160
	65	1,2-Dibromoethane	99	94	97	98	99	100	106	103	104	2.9	3.61	16.8911
	66	1-Chlorohexane	102	99	97	101	102	100	102	101	97	1.6	1.90	17.0232
	67	Chlorobenzene	105	104	102	100	101	99	101	97	92	2.8	3.94	17.4304
	68	1,1,1,2-Tetrachloroethane	94	99	101	99	104	103	105	101	95	2.9	3.77	17.4659
	69	Ethylbenzene	108	103	101	101	101	99	100	97	91	3	4.57	17.4646
2	70	m-Xylene & p-Xylene	111	103	101	101	101	99	100	96	88	4	6.14	17.5625
	71	o-Xylene	103	101	99	99	100	100	103	100	95	1.4	2.15	18.1127
	72	Styrene	94	95	95	99	104	103	107	104	98	4.1	4.79	18.1457
	73	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	20.4898
	74	Isopropylbenzene	101	101	99	102	103	99	101	98	96	1.8	2.24	18.5089
	75	Bromoform	89	86	92	94	102	105	112	109	112	9	10.38	18.5969
	76	1,1,2,2-Tetrachloroethane	94	98	99	99	99	98	106	102	104	2.8	3.54	18.7070
	77	4-Bromofluorobenzene	88	98	98	104	102	107	103	101	------	4.3	5.91	18.8171
	78	1,2,3-Trichloropropane	91	101	102	101	100	98	106	102	104	2.9	4.22	18.8758
	79	trans-1,4-Dichloro-2-butene	94	86	93	97	100	101	111	108	111	6.8	8.62	18.9186
	80	n-Propylbenzene	104	100	98	103	103	100	101	98	93	2.4	3.30	18.9601
	81	Bromobenzene	96	101	101	102	103	99	102	99	96	2.1	2.50	19.0702
	82	1,3,5-Trimethylbenzene	108	101	98	101	101	99	100	98	94	2.5	3.73	19.1252
	83	2-Chlorotoluene	106	104	101	103	102	98	99	95	91	3.6	4.72	19.1912
	84	4-Chlorotoluene	106	101	96	100	101	98	100	100	98	1.8	2.64	19.2353
	85	tert-Butylbenzene	99	99	99	105	104	101	101	98	92	2.5	3.67	19.5116
	86	1,2,4-Trimethylbenzene	104	101	98	101	102	99	101	99	94	2.2	2.99	19.5544
	87	sec-Butylbenzene	104	100	99	103	103	100	100	98	93	2.2	3.35	19.7305
	88	p-Isopropyltoluene	104	99	97	103	103	100	102	99	94	2.5	3.20	19.8625
	89	1,3-Dichlorobenzene	109	102	99	101	101	98	100	97	93	2.9	4.31	20.0166
	90	1,4-Dichlorobenzene	108	102	100	100	101	98	100	98	94	2.5	3.82	20.1156
	91	Benzyl chloride	------	126	93	81	96	104	------	------	------	12	16.6	20.2257
	92	n-Butylbenzene	104	99	97	105	104	103	104	94	90	4.5	5.42	20.2697
	93	1,2-Dichlorobenzene	104	106	102	100	100	97	100	98	94	2.6	3.65	20.5118
	94	1,2-Dibromo-3-chloropropane	------	77	84	92	100	106	116	110	113	11.5	14.26	21.3345
	95	1,2,4-Trichlorobenzene	91	90	90	97	108	108	110	106	102	7.5	8.55	22.3387
	96	Hexachlorobutadiene	103	99	99	101	101	102	102	101	93	2.1	2.87	22.4732
	97	Naphthalene	------	124	96	85	93	98	105	99	100	7.2	11.3	22.7239
	98	1,2,3-Trichlorobenzene	94	88	91	97	106	108	110	104	101	6.7	8.01	23.0320

Sw
24/11/11

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SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :F4
IC_Beginning DateTime :02/09/11 10:21
Spike Amount :50 PPB
CC/CV File :RBN151
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
IC_Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09
Date_Time :02/10/11 10:07

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	50.000	0	916535	1	1	12.555	12.555	0				
	2	Dichlorodifluoromethane	53.259	6.5	296301	0.323	0.303	3.608	3.608	3.73				
	3	Chloromethane	46.515	-7.0	270333	0.295	0.317	4.092	4.092	5.96				
	4	Vinyl chloride	55.685	11.4	263215	0.287	0.258	4.312	4.317	8.47				
	5	Bromomethane	52.454	4.9	260980	0.285	0.271	5.226	5.220	6.28				
	6	Chloroethane	53.745	7.5	254909	0.278	0.259	5.380	5.374	7.66				
	7	Dichlorofluoromethane	45.259	-9.5	537712	0.587	0.648	5.446	5.446	1.61				
	8	Trichlorofluoromethane	53.657	7.3	468006	0.511	0.476	5.897	5.890	3.51				
5	9	Acrolein	278.954	11.6	188705	0.041	0.037	6.711	6.716	9.92				
	10	1,1,2-Trichloro-1,2,2-Trifluoroethane	58.882	17.8	218088	0.238	0.202	6.744	6.741	1.59				
5	11	Acetone	232.077	-7.2	352862	0.077	0.095	6.821	6.824	26.72	0.0066	0.0815		0.9995
	12	1,1-Dichloroethene	51.958	3.9	484196	0.528	0.508	7.096	7.099	1.78				
5	13	tert-Butyl alcohol	201.708	-19.3	109350	0.024	0.030	7.195	7.203	7.20				
10	14	Acetonitrile	446.849	-10.6	284621	0.031	0.035	7.339	7.336	3.59				
	15	Methyl acetate												
	16	Iodomethane	48.306	-3.4	380470	0.415	0.328	7.702	7.703	40.84	-0.0107	0.4408		0.9994
	17	Allyl chloride	55.302	10.6	137833	0.150	0.136	7.790	7.790	4.93				
	18	Methylene chloride	45.898	-8.2	487249	0.532	0.579	7.999	7.999	11.61				
	19	Carbon disulfide	47.359	-5.3	936753	1.022	1.079	8.076	8.076	11.90				
5	20	Acrylonitrile	249.278	-0.3	561416	0.123	0.123	8.219	8.218	5.38				
	21	tert-Butyl methyl ether (MTBE)	44.777	-10.4	573238	0.625	0.698	8.252	8.253	2.87				
	22	trans-1,2-Dichloroethene	48.246	-3.5	480404	0.524	0.543	8.549	8.552	1.20				
	23	Isopropyl ether (DIPE)	46.109	-7.8	1174970	1.282	1.390	9.066	9.069	1.95				
	24	Vinyl acetate	50.477	1.0	533070	0.582	0.576	9.275	9.280	10.29				
	25	1,1-Dichloroethane	50.662	1.3	577531	0.630	0.622	9.319	9.321	1.34				
	26	tert-Butyl ethyl ether (ETBE)	46.310	-7.4	974837	1.064	1.148	9.804	9.800	2.99				
5	27	2-Butanone	234.080	-6.4	625826	0.137	0.146	10.024	10.026	5.69				
10	28	Propionitrile	429.124	-14.2	352024	0.038	0.045	10.167	10.167	3.88				
	29	2,2-Dichloropropane	50.252	0.5	381217	0.416	0.414	10.321	10.320	4.62				
	30	cis-1,2-Dichloroethene	46.880	-6.2	273770	0.299	0.319	10.398	10.402	1.61				
20	31	Isobutyl alcohol	870.263	-13.0	212558	0.012	0.013	10.519	10.524	5.08				
10	32	Methacrylonitrile	439.436	-12.1	427549	0.047	0.053	10.519	10.519	8.70				
	33	Chloroform	51.497	3.0	482544	0.526	0.511	10.673	10.674	1.52				
	34	tert-Amyl alcohol (TAA)												
	35	Bromochloromethane	47.145	-5.7	306009	0.334	0.354	10.981	10.980	2.47				
	36	Cyclohexane												
	37	Dibromofluoromethane	52.721	5.4	309892	0.338	0.321	11.058	11.057	11.77				
	38	1,1,1-Trichloroethane	51.426	2.9	417144	0.455	0.443	11.388	11.382	3.10				
	39	tert-Amyl methyl ether (TAME)	47.257	-5.5	141929	0.155	0.164	11.796	11.797	9.25				
	40	1,2-Dichloroethane-d4	51.332	2.7	304959	0.333	0.324	11.917	11.917	9.09				
	41	CHLOROBENZENE-D5	50.000	0	830665	1	1	17.375	17.377	0				
	42	1,1-Dichloropropene	50.073	0.1	135841	0.164	0.163	11.653	11.651	6.00				
	43	Carbon tetrachloride	50.775	1.6	383475	0.462	0.455	11.840	11.841	3.80				
	44	1,2-Dichloroethane	46.865	-6.3	365668	0.440	0.470	12.082	12.081	1.08				
	45	Benzene	45.571	-8.9	956937	1.152	1.264	12.137	12.130	4.96				
	46	Trichloroethene	48.001	-4.0	295607	0.356	0.371	13.171	13.167	1.09				
	47	1,2-Dichloropropane	48.051	-3.9	330660	0.398	0.414	13.468	13.467	1.53				
	48	Methyl methacrylate	44.320	-11.4	122545	0.148	0.166	13.479	13.484	6.42				
	49	Methylcylohexane												
20	50	1,4-Dioxane	933.248	-6.7	34296	0.002	0.002	13.865	13.865	12.42				

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	51	Bromodichloromethane	47.392	-5.2	340022	0.409	0.432	13.876	13.878	5.07				
	52	Dibromomethane	47.005	-6.0	145377	0.175	0.186	13.997	13.994	6.03				
	53	2-Chloroethyl vinyl ether	42.346	-15.3	138899	0.167	0.197	14.327	14.328	7.14				
5	54	4-Methyl-2-pentanone	233.958	-6.4	1501995	0.362	0.386	14.371	14.371	4.58				
	55	cis-1,3-Dichloropropene	48.062	-3.9	394301	0.475	0.494	14.789	14.789	5.91				
	56	Toluene-d8	53.130	6.3	1000043	1.204	1.133	15.207	15.207	8.91				
	57	Toluene	44.862	-10.3	1037284	1.249	1.392	15.339	15.338	7.54				
	58	Ethyl methacrylate	45.123	-9.8	246075	0.296	0.328	15.493	15.493	10.85				
	59	trans-1,3-Dichloropropene	48.104	-3.8	338769	0.408	0.424	15.570	15.571	7.31				
5	60	2-Hexanone	234.793	-6.1	959164	0.231	0.246	15.780	15.778	6.42				
	61	1,1,2-Trichloroethane	46.267	-7.5	199583	0.240	0.260	15.823	15.828	1.94				
	62	1,3-Dichloropropane	45.089	-9.8	327332	0.394	0.437	16.198	16.198	1.76				
	63	Tetrachloroethene	48.888	-2.2	225612	0.272	0.278	16.319	16.319	3.09				
	64	Dibromochloromethane	47.584	-4.8	262707	0.316	0.332	16.616	16.616	9.57				
	65	1,2-Dibromoethane	43.872	-12.3	203492	0.245	0.279	16.891	16.891	3.61				
	66	1-Chlorohexane	49.654	-0.7	381783	0.460	0.463	17.023	17.023	1.90				
	67	Chlorobenzene	47.729	-4.5	741711	0.893	0.935	17.430	17.430	3.94				
	68	1,1,1,2-Tetrachloroethane	48.009	-4.0	265187	0.319	0.332	17.463	17.466	3.77				
	69	Ethylbenzene	47.124	-5.8	1206406	1.452	1.541	17.463	17.465	4.57				
2	70	m-Xylene & p-Xylene	94.036	-6.0	1867645	1.124	1.195	17.562	17.563	6.14				
	71	o-Xylene	46.445	-7.1	953237	1.148	1.235	18.113	18.113	2.15				
	72	Styrene	48.802	-2.4	778855	0.938	0.961	18.146	18.146	4.79				
	73	1,2-DICHLOROBENZENE-D4	50.000	0	384553	1	1	20.490	20.490	0				
	74	Isopropylbenzene	49.558	-0.9	1259658	3.276	3.305	18.509	18.509	2.24				
	75	Bromoform	47.964	-4.1	157998	0.411	0.428	18.597	18.597	10.38				
	76	1,1,2,2-Tetrachloroethane	43.708	-12.6	235177	0.612	0.700	18.707	18.707	3.54				
	77	4-Bromofluorobenzene	53.660	7.3	397273	1.033	0.963	18.817	18.817	5.91				
	78	1,2,3-Trichloropropane	44.035	-11.9	67881	0.177	0.200	18.872	18.876	4.22				
	79	trans-1,4-Dichloro-2-butene	41.081	-17.8	83119	0.216	0.263	18.916	18.919	8.62				
	80	n-Propylbenzene	48.461	-3.1	1463750	3.806	3.927	18.960	18.960	3.30				
	81	Bromobenzene	47.701	-4.6	293002	0.762	0.799	19.070	19.070	2.50				
	82	1,3,5-Trimethylbenzene	46.877	-6.2	1040505	2.706	2.886	19.125	19.125	3.73				
	83	2-Chlorotoluene	46.190	-7.6	903523	2.350	2.543	19.191	19.191	4.72				
	84	4-Chlorotoluene	47.977	-4.0	793246	2.063	2.150	19.235	19.235	2.64				
	85	tert-Butylbenzene	48.962	-2.1	213845	0.556	0.568	19.510	19.512	3.67				
	86	1,2,4-Trimethylbenzene	48.554	-2.9	1067286	2.775	2.858	19.554	19.554	2.99				
	87	sec-Butylbenzene	48.511	-3.0	1399234	3.639	3.750	19.730	19.730	3.35				
	88	p-Isopropyltoluene	49.367	-1.3	1137635	2.958	2.996	19.862	19.862	3.20				
	89	1,3-Dichlorobenzene	47.315	-5.4	580121	1.509	1.594	20.017	20.017	4.31				
	90	1,4-Dichlorobenzene	47.746	-4.5	576226	1.498	1.569	20.115	20.116	3.82				
	91	Benzyl chloride	41.747	-16.5	327488	0.852	0.813	20.226	20.226	24.95	-0.0272	1.0525		0.9974
	92	n-Butylbenzene	51.104	2.2	1060256	2.757	2.698	20.270	20.270	5.42				
	93	1,2-Dichlorobenzene	46.867	-6.3	527481	1.372	1.463	20.512	20.512	3.65				
	94	1,2-Dibromo-3-chloropropane	43.515	-13.0	43111	0.112	0.129	21.337	21.334	14.26				
	95	1,2,4-Trichlorobenzene	52.682	5.4	329930	0.858	0.814	22.339	22.339	8.55				
	96	Hexachlorobutadiene	50.359	0.7	184875	0.481	0.477	22.471	22.473	2.87				
	97	Naphthalene	42.207	-15.6	622728	1.619	1.683	22.724	22.724	21.99	-0.0537	1.9820		0.9995
	98	1,2,3-Trichlorobenzene	49.963	-0.1	286156	0.744	0.745	23.032	23.032	8.01				

Spike Amount = Nominal Amount * M

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2/11/11

1100

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN278
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/17/11
BFB Injection Time : 08:02
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.61
75	30.0 - 60.0% of mass 95	46.95
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	0.73(1.0)1
174	Greater than 50% of mass 95	75.51
175	5.0 - 9.0% of mass 174	5.65(7.5)1
176	95.0 - 101.0% of mass 174	72.32(95.8)1
177	5.0 - 9.0% of mass 176	4.82(6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CVOF4B0908	RBN279	02/17/11	08:30
2	MBLK1S	VOF4B18B	RBN282	02/17/11	09:52
3	LCS1S	VOF4B18L	RBN280	02/17/11	08:58
4	LCD1S	VOF4B18C	RBN281	02/17/11	09:25
5	MBLK2S	VPB017SB	RBN290	02/17/11	13:33
6	SSI-SS-001	B186-12	RBN291	02/17/11	14:01

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBN141
Instrument ID: TOF4
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/09/11
Time Analyzed: 12:47
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	955687	12.56	846550	17.38	391027	20.49
	UPPER LIMIT	1911374	13.06	1693100	17.88	782054	20.99
	LOWER LIMIT	477844	12.06	423275	16.88	195514	19.99
	SAMPLE ID						
1	VSTD050	839670	12.56	792641	17.39	369328	20.49
2	MBLK1S	798205	12.56	741969	17.38	351395	20.49
3	LCS1S	830952	12.56	785896	17.38	374975	20.49
4	LCD1S	825579	12.56	774069	17.38	366765	20.49
5	MBLK2S	938076	12.56	886899	17.38	422358	20.49
6	SSI-SS-001	896192	12.56	823565	17.38	359697	20.49

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000		0.0	88	0.00
2	T	Dichlorodifluoromethane	50.000	52.369		-4.7	95	0.00
3	P,T	Chloromethane	50.000	48.833		2.3	99	0.00
4	C,T	Vinyl chloride	50.000	57.724		-15.4	98	0.01
5	T	Bromomethane	50.000	49.147		1.7	94	0.01
6	T	Chloroethane	50.000	52.778		-5.6	90	0.01
7	T	Dichlorofluoromethane	50.000	52.327		-4.7	92	0.01
8	T	Trichlorofluoromethane	50.000	55.621		-11.2	100	0.01
9	T	Acrolein	250.000	252.815		-1.1	92	0.01
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	56.397		-12.8	100	0.01
11	T	Acetone	250.000	207.434		17.0	80	0.00
12	C,T	1,1-Dichloroethene	50.000	51.840		-3.7	91	0.01
13	T	tert-Butyl alcohol	250.000	179.457	M	28.2#	73	0.00
14	T	Acetonitrile	500.000	446.029		10.8	83	0.01
15	T	Methyl acetate	-1.000	0.000		0.0	0	0.00
16	T	Iodomethane	50.000	44.074		11.9	80	0.00
17	T	Allyl chloride	50.000	51.783		-3.6	88	0.01
18	T	Methylene chloride	50.000	47.139		5.7	87	0.01
19	T	Carbon disulfide	50.000	46.155		7.7	88	0.00
20	T	Acrylonitrile	250.000	228.079		8.8	84	0.01
21	T	tert-Butyl methyl ether (MT	50.000	46.289		7.4	84	0.01
22	T	trans-1,2-Dichloroethene	50.000	50.250		-0.5	87	0.01
23	T	Isopropyl ether (DIPE)	50.000	48.114		3.8	84	0.00
24	T	Vinyl acetate	50.000	49.568		0.9	87	0.01
25	P,T	1,1-Dichloroethane	50.000	51.150		-2.3	89	0.01
26	T	tert-Butyl ethyl ether (ETB	50.000	47.106		5.8	84	0.01
27	T	2-Butanone	250.000	212.661		14.9	82	0.00
28	T	Propionitrile	500.000	455.349		8.9	85	0.01
29	T	2,2-Dichloropropane	50.000	54.206		-8.4	95	0.00
30	T	cis-1,2-Dichloroethene	50.000	50.936		-1.9	88	0.01
31	T	Isobutyl alcohol	1000.000	839.490		16.1	76	0.00
32	T	Methacrylonitrile	500.000	481.225		3.8	88	0.01
33	C,T	Chloroform	50.000	51.590		-3.2	90	0.00
34	T	tert-Amyl alcohol (TAA)	-1.000	0.000		0.0	0	0.00
35	T	Bromochloromethane	50.000	49.620		0.8	86	0.01
36	T	Cyclohexane	-1.000	0.000		0.0	0	0.00
37	S	Dibromofluoromethane	50.000	52.478		-5.0	88	0.01
38	T	1,1,1-Trichloroethane	50.000	54.489		-9.0	94	0.01
39	T	tert-Amyl methyl ether (TAM	50.000	47.967		4.1	84	0.00
40	S	1,2-Dichloroethane-d4	50.000	51.153		-2.3	89	0.00
41	I	CHLOROBENZENE-D5	50.000	50.000		0.0	94	0.01
42	T	1,1-Dichloropropene	50.000	50.639		-1.3	91	0.00
43	T	Carbon tetrachloride	50.000	52.510		-5.0	97	0.00
44	T	1,2-Dichloroethane	50.000	47.165		5.7	89	0.01
45	T	Benzene	50.000	45.759		8.5	87	0.01
46	T	Trichloroethene	50.000	48.811		2.4	91	0.01
47	C,T	1,2-Dichloropropane	50.000	47.375		5.3	88	0.00
48	T	Methyl methacrylate	50.000	45.091		9.8	87	0.01
49	T	Methylcylohexane	-1.000	0.000		0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	1000.000	660.281	NJ	34.0#	62	0.00
51	T	Bromodichloromethane	50.000	49.055		1.9	91	0.01
52	T	Dibromomethane	50.000	47.501		5.0	88	0.01
53	T	2-Chloroethyl vinyl ether	50.000	41.882		16.2	80	0.00
54	T	4-Methyl-2-pentanone	250.000	207.873		16.9	83	0.00
55	T	cis-1,3-Dichloropropene	50.000	47.950		4.1	88	0.00
56	S	Toluene-d8	50.000	51.064		-2.1	93	0.00
57	C,T	Toluene	50.000	45.871		8.3	88	0.01
58	T	Ethyl methacrylate	50.000	45.860		8.3	85	0.00
59	T	trans-1,3-Dichloropropene	50.000	48.371		3.3	89	0.00
60	T	2-Hexanone	250.000	206.001		17.6	82	0.01
61	T	1,1,2-Trichloroethane	50.000	46.560		6.9	89	0.00
62	T	1,3-Dichloropropane	50.000	46.275		7.5	87	0.00
63	T	Tetrachloroethene	50.000	50.004		-0.0	94	0.00
64	T	Dibromochloromethane	50.000	49.693		0.6	91	0.00
65	T	1,2-Dibromoethane	50.000	46.292		7.4	88	0.00
66	T	1-Chlorohexane	50.000	49.988		0.0	92	0.00
67	P,T	Chlorobenzene	50.000	48.389		3.2	90	0.00
68	T	1,1,1,2-Tetrachloroethane	50.000	50.366		-0.7	91	0.00
69	C,T	Ethylbenzene	50.000	49.363		1.3	92	0.00
70	T	m-Xylene & p-Xylene	100.000	97.825		2.2	91	0.00
71	T	o-Xylene	50.000	48.456		3.1	90	0.00
72	T	Styrene	50.000	49.857		0.3	90	0.00
73	I	1,2-DICHLOROBENZENE-D4	50.000	50.000		0.0	94	0.00
74	T	Isopropylbenzene	50.000	50.345		-0.7	93	0.00
75	P,T	Bromoform	50.000	49.140		1.7	91	0.00
76	P,T	1,1,2,2-Tetrachloroethane	50.000	45.238		9.5	86	0.00
77	S	4-Bromofluorobenzene	50.000	53.451		-6.9	99	0.00
78	T	1,2,3-Trichloropropane	50.000	46.270		7.5	88	0.01
79	T	trans-1,4-Dichloro-2-butene	50.000	45.468		9.1	86	0.00
80	T	n-Propylbenzene	50.000	51.139		-2.3	94	0.00
81	T	Bromobenzene	50.000	48.717		2.6	90	0.00
82	T	1,3,5-Trimethylbenzene	50.000	49.873		0.3	93	0.00
83	T	2-Chlorotoluene	50.000	48.747		2.5	90	0.00
84	T	4-Chlorotoluene	50.000	50.216		-0.4	94	0.00
85	T	tert-Butylbenzene	50.000	50.876		-1.8	92	0.00
86	T	1,2,4-Trimethylbenzene	50.000	49.640		0.7	92	0.00
87	T	sec-Butylbenzene	50.000	51.085		-2.2	94	0.00
88	T	p-Isopropyltoluene	50.000	51.809		-3.6	95	0.00
89	T	1,3-Dichlorobenzene	50.000	49.181		1.6	92	0.00
90	T	1,4-Dichlorobenzene	50.000	48.988		2.0	92	0.00
91	T	Benzyl chloride	50.000	43.207		13.6	85	0.00
92	T	n-Butylbenzene	50.000	54.375		-8.8	98	0.00
93	T	1,2-Dichlorobenzene	50.000	47.540		4.9	90	0.00
94	T	1,2-Dibromo-3-chloropropane	50.000	45.929		8.1	87	0.00
95	T	1,2,4-Trichlorobenzene	50.000	52.817		-5.6	93	0.00
96	T	Hexachlorobutadiene	50.000	52.866		-5.7	99	0.00
97	T	Naphthalene	50.000	42.487		15.0	86	0.00
98	T	1,2,3-Trichlorobenzene	50.000	50.862		-1.7	90	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

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Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
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Response via : Initial Calibration

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Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.303	0.318	-5.0	95	0.00
3	P,T	Chloromethane	0.317	0.310	2.2	99	0.00
4	C,T	Vinyl chloride	0.258	0.298	-15.5	98	0.01
5	T	Bromomethane	0.271	0.267	1.5	94	0.01
6	T	Chloroethane	0.259	0.273	-5.4	90	0.01
7	T	Dichlorofluoromethane	0.648	0.678	-4.6	92	0.01
8	T	Trichlorofluoromethane	0.476	0.529	-11.1	100	0.01
9	T	Acrolein	0.037	0.037	0.0	92	0.01
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.202	0.228	-12.9	100	0.01
11	T	Acetone	0.095	0.069	27.4#	80	0.00
12	C,T	1,1-Dichloroethene	0.508	0.527	-3.7	91	0.01
13	T	tert-Butyl alcohol	0.030	0.021	30.0#	73	0.00
14	T	Acetonitrile	0.035	0.031	11.4	83	0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.328	0.378	-15.2	80	0.00
17	T	Allyl chloride	0.136	0.141	-3.7	88	0.01
18	T	Methylene chloride	0.579	0.546	5.7	87	0.01
19	T	Carbon disulfide	1.079	0.996	7.7	88	0.00
20	T	Acrylonitrile	0.123	0.112	8.9	84	0.01
21	T	tert-Butyl methyl ether (MT	0.698	0.647	7.3	84	0.01
22	T	trans-1,2-Dichloroethene	0.543	0.546	-0.6	87	0.01
23	T	Isopropyl ether (DIPE)	1.390	1.338	3.7	84	0.00
24	T	Vinyl acetate	0.576	0.571	0.9	87	0.01
25	P,T	1,1-Dichloroethane	0.622	0.636	-2.3	89	0.01
26	T	tert-Butyl ethyl ether (ETB	1.148	1.082	5.7	84	0.01
27	T	2-Butanone	0.146	0.124	15.1	82	0.00
28	T	Propionitrile	0.045	0.041	8.9	85	0.01
29	T	2,2-Dichloropropane	0.414	0.449	-8.5	95	0.00
30	T	cis-1,2-Dichloroethene	0.319	0.325	-1.9	88	0.01
31	T	Isobutyl alcohol	0.013	0.011	15.4	76	0.00
32	T	Methacrylonitrile	0.053	0.051	3.8	88	0.01
33	C,T	Chloroform	0.511	0.527	-3.1	90	0.00
34	T	tert-Amyl alcohol (TAA)	0.000	0.000	0.0	0#	0.00
35	T	Bromochloromethane	0.354	0.351	0.8	86	0.01
36	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
37	S	Dibromofluoromethane	0.321	0.337	-5.0	88	0.01
38	T	1,1,1-Trichloroethane	0.443	0.482	-8.8	94	0.01
39	T	tert-Amyl methyl ether (TAM	0.164	0.157	4.3	84	0.00
40	S	1,2-Dichloroethane-d4	0.324	0.332	-2.5	89	0.00
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	94	0.01
42	T	1,1-Dichloropropene	0.163	0.165	-1.2	91	0.00
43	T	Carbon tetrachloride	0.455	0.477	-4.8	97	0.00
44	T	1,2-Dichloroethane	0.470	0.443	5.7	89	0.01
45	T	Benzene	1.264	1.157	8.5	87	0.01
46	T	Trichloroethene	0.371	0.362	2.4	91	0.01
47	C,T	1,2-Dichloropropane	0.414	0.392	5.3	88	0.00
48	T	Methyl methacrylate	0.166	0.150	9.6	87	0.01
49	T	Methylcylohexane	0.000	0.000	0.0	0#	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	0.002	0.001	50.0#	62	0.00
51	T	Bromodichloromethane	0.432	0.424	1.9	91	0.01
52	T	Dibromomethane	0.186	0.177	4.8	88	0.01
53	T	2-Chloroethyl vinyl ether	0.197	0.165	16.2	80	0.00
54	T	4-Methyl-2-pentanone	0.386	0.321	16.8	83	0.00
55	T	cis-1,3-Dichloropropene	0.494	0.474	4.0	88	0.00
56	S	Toluene-d8	1.133	1.157	-2.1	93	0.00
57	C,T	Toluene	1.392	1.277	8.3	88	0.01
58	T	Ethyl methacrylate	0.328	0.301	8.2	85	0.00
59	T	trans-1,3-Dichloropropene	0.424	0.410	3.3	89	0.00
60	T	2-Hexanone	0.246	0.203	17.5	82	0.01
61	T	1,1,2-Trichloroethane	0.260	0.242	6.9	89	0.00
62	T	1,3-Dichloropropane	0.437	0.404	7.6	87	0.00
63	T	Tetrachloroethene	0.278	0.278	0.0	94	0.00
64	T	Dibromochloromethane	0.332	0.330	0.6	91	0.00
65	T	1,2-Dibromoethane	0.279	0.258	7.5	88	0.00
66	T	1-Chlorohexane	0.463	0.463	0.0	92	0.00
67	P,T	Chlorobenzene	0.935	0.905	3.2	90	0.00
68	T	1,1,1,2-Tetrachloroethane	0.332	0.335	-0.9	91	0.00
69	C,T	Ethylbenzene	1.541	1.521	1.3	92	0.00
70	T	m-Xylene & p-Xylene	1.195	1.169	2.2	91	0.00
71	T	o-Xylene	1.235	1.197	3.1	90	0.00
72	T	Styrene	0.961	0.958	0.3	90	0.00
73	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	94	0.00
74	T	Isopropylbenzene	3.305	3.328	-0.7	93	0.00
75	P,T	Bromoform	0.428	0.421	1.6	91	0.00
76	P,T	1,1,2,2-Tetrachloroethane	0.700	0.633	9.6	86	0.00
77	S	4-Bromofluorobenzene	0.963	1.029	-6.9	99	0.00
78	T	1,2,3-Trichloropropane	0.200	0.185	7.5	88	0.01
79	T	trans-1,4-Dichloro-2-butene	0.263	0.239	9.1	86	0.00
80	T	n-Propylbenzene	3.927	4.017	-2.3	94	0.00
81	T	Bromobenzene	0.799	0.778	2.6	90	0.00
82	T	1,3,5-Trimethylbenzene	2.886	2.879	0.2	93	0.00
83	T	2-Chlorotoluene	2.543	2.480	2.5	90	0.00
84	T	4-Chlorotoluene	2.150	2.159	-0.4	94	0.00
85	T	tert-Butylbenzene	0.568	0.578	-1.8	92	0.00
86	T	1,2,4-Trimethylbenzene	2.858	2.837	0.7	92	0.00
87	T	sec-Butylbenzene	3.750	3.832	-2.2	94	0.00
88	T	p-Isopropyltoluene	2.996	3.105	-3.6	95	0.00
89	T	1,3-Dichlorobenzene	1.594	1.568	1.6	92	0.00
90	T	1,4-Dichlorobenzene	1.569	1.537	2.0	92	0.00
91	T	Benzyl chloride	0.813	0.882	-8.5	85	0.00
92	T	n-Butylbenzene	2.698	2.934	-8.7	98	0.00
93	T	1,2-Dichlorobenzene	1.463	1.391	4.9	90	0.00
94	T	1,2-Dibromo-3-chloropropane	0.129	0.118	8.5	87	0.00
95	T	1,2,4-Trichlorobenzene	0.814	0.860	-5.7	93	0.00
96	T	Hexachlorobutadiene	0.477	0.505	-5.9	99	0.00
97	T	Naphthalene	1.683	1.630	3.1	86	0.00
98	T	1,2,3-Trichlorobenzene	0.745	0.758	-1.7	90	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
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ALS Vial : 2 Sample Multiplier: 1

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Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SUMMARY PACKAGE
TPH – PURGE AND TRAP

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

One (1) soil sample was received on 02/17/11 for TPH Gasoline analysis, Method 5035/M8015 in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for GMB009SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogate was added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMB009SB	1	NA	02/18/1118:18	02/18/1118:18	EB16078A	EB16070A	GMB009S	Method Blank
LCS1S	GMB009SL	1	NA	02/18/1116:55	02/18/1116:55	EB16076A	EB16070A	GMB009S	Lab Control Sample (LCS)
LCD1S	GMB009SC	1	NA	02/18/1117:37	02/18/1117:37	EB16077A	EB16070A	GMB009S	LCS Duplicate
SSI-SS-001	B186-12	1	19.8	02/18/1121:04	02/18/1121:04	EB16082A	EB16070A	GMB009S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/18/11 21:04
Sample ID:	SSI-SS-001	Date Analyzed:	02/18/11 21:04
Lab Samp ID:	B186-12	Dilution Factor:	1
Lab File ID:	EB16082A	Matrix :	SOIL
Ext Btch ID:	GMB009S	% Moisture :	19.8
Calib. Ref.:	EB16070A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.18	2.494	87.4	70-130

Parameter	H-C Range
Gasoline	C6-C10

METHANOL EXTRACTION: 02/18/11 11:51

QC SUMMARIES

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/18/11
Batch No.	: 11B186	Date Extracted:	02/18/11 18:18
Sample ID:	MBLK1S	Date Analyzed:	02/18/11 18:18
Lab Samp ID:	GMB009SB	Dilution Factor:	1
Lab File ID:	EB16078A	Matrix :	SOIL
Ext Btch ID:	GMB009S	% Moisture :	NA
Calib. Ref.:	EB16070A	Instrument ID :	GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.88	2.000	94.0	70-130

Parameter	H-C Range
Gasoline	C6-C10

METHANOL EXTRACTION: 02/18/11 11:51

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5035/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMB009SB	GMB009SL	GMB009SC		
LAB FILE ID:	EB16078A	EB16076A	EB16077A		
DATE EXTRACTED:	02/18/1118:18	02/18/1116:55	02/18/1117:37	DATE COLLECTED:	NA
DATE ANALYZED:	02/18/1118:18	02/18/1116:55	02/18/1117:37	DATE RECEIVED:	02/18/11
PREP. BATCH:	GMB009S	GMB009S	GMB009S		
CALIB. REF:	EB16070A	EB16070A	EB16070A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline Range Organics	ND	25.0	21.9	88	25.0	21.8	87	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.07	103	2.00	2.08	104	70-130

INITIAL CALIBRATION

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
LFID & Datetime: EB16006A 02/16/11 16:22
LFID & Datetime: EB16007A 02/16/11 17:04
LFID & Datetime: EB16008A 02/16/11 17:46
LFID & Datetime: EB16009A 02/16/11 18:27
LFID & Datetime: EB16010A 02/16/11 19:09
LFID & Datetime: EB16011A 02/16/11 19:50
LFID & Datetime: EB16012A 02/16/11 20:32
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	125.00X	MEAN	%RSD
Gasoline(TOTAL)	20.00	15183	15966	16457	16332	15100	15785	15785	15801.0	3.3
GRO(C6-C10)	20.00	13271	13222	14521	14393	13281	13847	13710	13749.3	3.9
GRO(2MP-124TMB)	20.00	13629	13388	14663	14429	13338	13907	13765	13874.1	3.6
GRO(C5-C12)	20.00	15183	15605	16457	16327	15100	15775	15776	15746.0	3.3
GRO(C6-C12)	20.00	14378	15120	16018	16060	14834	15496	15502	15344.1	4.0
SURROGATE	**X**	**1.00X**	**2.00X**	**3.00X**	**4.00X**	**5.00X**	**7.50X**	**10.00X**	**MEAN**	**%RSD**
Bromofluorobenzene	10.00	12813	13615	14460	16582	16751	17008	16844	15439.1	11.4
1,1,1-Trifluorotoluene	10.00	19666	20618	21205	22624	23382	24059	23364	22131.0	7.4

VG39B16.MET

AS
02/18/11

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16013A 02/16/2011 21:13
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	16234217	1027.42	3		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	13044726	948.75	-5		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	13079789	942.74	-6		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	16151394	1025.75	3		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	15821427	1031.11	3		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.658	10.605	10.711	50.0	15439.1	827724	53.61	7		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	50.0	22131.0	1210252	54.69	9		15

VG39B16.MET

QA
02/18/11

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16009A 02/16/2011 18:27
Conc Cont LFID & Datetime: EB16014A 02/16/2011 21:55
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	500.0	15801.0	8353585	528.67	6		15
GRO(C6-C10)	NA	NA	NA	500.0	13749.3	6789626	493.82	-1		15
GRO(2MP-124TMB)	NA	NA	NA	500.0	13874.1	6792926	489.61	-2		15
GRO(C5-C12)	NA	NA	NA	500.0	15746.0	8342423	529.81	6		15
GRO(C6-C12)	NA	NA	NA	500.0	15344.1	8184034	533.37	7		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.658	10.605	10.711	40.0	15439.1	670143	43.41	9		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	40.0	22131.0	918275	41.49	4		15

VG39B16.MET

AA
02/18/11

DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16070A 02/18/2011 12:46
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	14722652	931.75	-7		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	12982462	944.22	-6		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	12935995	932.38	-7		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	14722652	935.01	-6		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	14464670	942.68	-6		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.658	10.605	10.711	50.0	15439.1	736045	47.67	-5		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	50.0	22131.0	1042100	47.09	-6		15

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16084A 02/18/2011 22:27
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	15282897	967.21	-3		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	13370143	972.42	-3		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	13372320	963.83	-4		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	15278841	970.33	-3		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	15018807	978.80	-2		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.642	10.589	10.695	50.0	15439.1	779258	50.47	1		15
1,1,1-Trifluorotoluene	3.142	3.041	3.243	50.0	22131.0	1158624	52.35	5		15

SUMMARY PACKAGE
TPH – EXTRACTION

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) soil sample was received on 02/17/11 for TPH Diesel & Motor Oil analysis, Method 3550B/8015 in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for DSB029SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : GCT105

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSB029SB	1	NA	02/22/1117:37	02/22/1110:56	LB22005A	LB22003A	DSB029S	Method Blank
LCS1S	DSB029SL	1	NA	02/22/1117:53	02/22/1110:56	LB22006A	LB22003A	DSB029S	Lab Control Sample (LCS)
LCD1S	DSB029SC	1	NA	02/22/1118:10	02/22/1110:56	LB22007A	LB22003A	DSB029S	LCS Duplicate
SSI-SS-001	B186-12	1	19.8	02/22/1118:27	02/22/1110:56	LB22008A	LB22003A	DSB029S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : TETRA TECH EMI	Date Collected: 02/16/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/22/11 10:56
Sample ID: SSI-SS-001	Date Analyzed: 02/22/11 18:27
Lab Samp ID: B186-12	Dilution Factor: 1
Lab File ID: LB22008A	Matrix : SOIL
Ext Btch ID: DSB029S	% Moisture : 19.8
Calib. Ref.: LB22003A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL RANGE ORGANICS	ND	12	6.2
MOTOR OIL	ND	25	6.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	90.9	124.7	72.9	60-140
HEXACOSANE	29.5	31.17	94.7	50-150

RL : Reporting Limit

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

QC SUMMARIES

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/22/11
Batch No.	: 11B186	Date Extracted:	02/22/11 10:56
Sample ID:	MBLK1S	Date Analyzed:	02/22/11 17:37
Lab Samp ID:	DSB029SB	Dilution Factor:	1
Lab File ID:	LB22005A	Matrix :	SOIL
Ext Btch ID:	DSB029S	% Moisture :	NA
Calib. Ref.:	LB22003A	Instrument ID :	GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL RANGE ORGANICS	ND	10	5.0
MOTOR OIL	ND	20	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.0	100.0	82.0	60-140
HEXACOSANE	23.7	25.00	94.8	60-140

RL : Reporting Limit

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 3550B/8015

MATRIX:	SOIL			% MDISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	DSB029SB	DSB029SL	DSB029SC		
LAB FILE ID:	LB22005A	LB22006A	LB22007A		
DATE EXTRACTED:	02/22/1110:56	02/22/1110:56	02/22/1110:56	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1117:37	02/22/1117:53	02/22/1118:10	DATE RECEIVED:	02/22/11
PREP. BATCH:	DSB029S	DSB029S	DSB029S		
CALIB. REF:	LB22003A	LB22003A	LB22003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel Range Organics	ND	500	472	94	500	468	94	1	50-150	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromobenzene	100	92.5	92	100	87.4	87	60-140
Hexacosane	25.0	24.9	99	25.0	23.1	92	60-140

INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31003A 01/31/11 19:36
LFID & Datetime: LA31004A 01/31/11 19:52
LFID & Datetime: LA31005A 01/31/11 20:09
LFID & Datetime: LA31006A 01/31/11 20:26
LFID & Datetime: LA31007A 01/31/11 20:43
LFID & Datetime: LA31008A 01/31/11 20:59
LFID & Datetime: LA31009A 01/31/11 21:16
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD	
DIESEL(TOTAL)	5.00	24562	21553	23304	27728	26931	24601	23514	24599.0	8.7	✓
DIESEL(C10-C24)	5.00	23658	19867	22244	26582	25977	23359	22188	23410.9	9.9	✓
DIESEL(C10-C28)	5.00	23696	19979	22312	26603	25998	23458	22243	23469.7	9.7	✓
DIESEL(C10-C25)	5.00	23696	19905	22260	26590	25988	23426	22219	23440.4	9.8	✓
DIESEL(C9-C24)	5.00	24349	20239	22776	27153	26547	24096	23036	24028.0	9.8	✓
DIESEL(C9-C25)	5.00	24386	20276	22792	27161	26558	24163	23068	24057.6	9.7	✓
DIESEL(C10-C36)	5.00	23696	19979	22314	26603	25998	23460	22243	23470.4	9.7	✓
DIESEL(C10-C40)	5.00	23696	19979	22314	26603	25998	23460	22243	23470.4	9.7	✓

SURROGATE	X	0.00X	1.00X	2.00X	3.00X	4.00X	5.00X	11.00X	MEAN	%RSD	
BROMOBENZENE	20.00	0	14990	16097	15904	15772	16456	16339	15926.4	3.3	✓
HEXACOSANE	5.00	0	19664	22241	22512	22526	22197	22382	21920.3	5.1	✓

DS105A31.MET

AB
02/03/11

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31011A 01/31/11 21:50
LFID & Datetime: LA31012A 01/31/11 22:06
LFID & Datetime: LA31013A 01/31/11 22:23
LFID & Datetime: LA31014A 01/31/11 22:40
LFID & Datetime: LA31015A 01/31/11 22:57
LFID & Datetime: LA31016A 01/31/11 23:14
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD
JP5(C8-C18)	5.00	19456	31549	28633	27719	25431	26788	26596.0	15.3
M.OIL(C18-C36)	5.00	15067	22004	19588	18244	18182	17662	18457.8	12.4
M.OIL(C24-C36)	5.00	12656	18263	16611	15039	15026	14612	15367.7	12.4
M.OIL(C24-C40)	5.00	12656	18269	16611	15039	15092	14761	15404.6	12.3

DS105A31.MET

AS
02/03/11

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LA31010A 01/31/2011 21:33
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12017210	488.52	-2		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11122168	475.09	-5		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11130901	474.27	-5		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11130901	474.86	-5		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	11613427	483.33	-3		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	11622160	483.10	-3		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11130901	474.25	-5		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11130901	474.25	-5		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
BROMOBENZENE	1.804	1.801	1.807	80.0	15926.4	1299173	81.57	2		15
HEXACOSANE	4.972	4.822	5.122	20.0	21920.3	453227	20.68	3		15

DS105A31.MET

02/03/11

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INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LA31017A 01/31/2011 23:30
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	12575110	472.82	-5		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9614600	520.90	4		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8178190	532.17	6		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8178190	530.89	6		15

DS105A31.MET

AS
02/03/11
1139

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LB22003A 02/22/2011 17:03
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12194992	495.75	-1		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11422915	487.93	-2		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11434795	487.21	-3		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11431074	487.67	-2		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	11863047	493.72	-1		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	11871206	493.45	-1		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11435275	487.22	-3		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11435275	487.22	-3		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	1.800	1.797	1.803	80.0	15926.4	1280270	80.39	0		15
HEXACOSANE	4.971	4.821	5.121	20.0	21920.3	439279	20.04	0		15

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LB22004A 02/22/2011 17:20
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	13675064	514.18	3		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9864934	534.46	7		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8387535	545.79	9		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8387535	544.48	9		15

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LB22015A 02/22/2011 20:25
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12410281	504.50	1		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11650406	497.65	-0		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11665312	497.04	-1		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11659230	497.40	-1		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	12098057	503.50	1		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	12106881	503.25	1		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11665676	497.04	-1		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11665676	497.04	-1		15
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	1.801	1.798	1.804	80.0	15926.4	1304108	81.88	2		15
HEXACOSANE	4.967	4.817	5.117	20.0	21920.3	450530	20.55	3		15

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LB22D16A 02/22/2011 20:42
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	12743405	479.15	-4		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9966495	539.96	8		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8474010	551.42	10		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8474011	550.10	10		15

RAW DATA
VOLATILE ORGANICS
(WATER)

LABORATORY REPORT FOR

TETRA TECH EMI

OPHA MOFFETT

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 11B186

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

A total of twelve (12) water samples were received on 02/17/11 for Volatile Organics by GC/MS analysis, Method 5030B/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Samples were analyzed within the prescribed holding time. Sample B186-04 was analyzed within method holding time of 14 days based on vials labeled with preservation, but analysis shows pH>2.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, four (4) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
Four (4) sets of LCS/LCD were analyzed with the samples in this SDG.
Percent recoveries for VO01B28L/C were all within QC limits.
Percent recoveries for VO01B29L/C were all within QC limits.
Percent recoveries for VO03B28X/C were all within QC limits.
Percent recoveries for VO03B29L/Y were all within QC limits.

Matrix QC Sample
A set of MS/MSD was analyzed with the samples in this SDG.
Percent recoveries were within project QC limits except for results qualified with [*] in B186-05 G/V summary form, due to high parent sample concentration. Check QC summary form for details.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Samples were analyzed according to prescribed analytical procedures. Manual integration was applied to Carbon disulfide analyte in sample B186-11 because of improper integration. Chromatograms of before and after manual integration were submitted for review. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.
Sample B186-04 was detected for residual chlorine above acceptable limit.
Trace amount of Toluene below RL was detected in the reanalysis of sample B186-02. Initial analysis confirmed the result. Vials are from EMAX lot TB-003-01-09 which was prepared in 01/05/2011. Vials have been out of EMAX control since 01/05/2011.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : T-001

WATER

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1W	V001B28B	1	NA	02/22/1109:23	02/22/1109:23	RBV572	RLV333	V001B28	Method Blank
LCS1W	V001B28L	1	NA	02/22/11D7:43	02/22/1107:43	RBV569	RLV333	V001B28	Lab Control Sample (LCS)
LCD1W	V001B28C	1	NA	02/22/1108:17	02/22/1108:17	RBV570	RLV333	V001B28	LCS Duplicate
SSI-D-002	B186-10	1	NA	02/22/1112:19	02/22/1112:19	RBV577	RLV333	V001B28	Field Sample
SSI-HP-008	B186-09	1	NA	02/22/1112:50	02/22/1112:50	RBV578	RLV333	V001B28	Field Sample
SSI-HP-006	B186-07	1	NA	02/22/1113:21	02/22/1113:21	RBV579	RLV333	V001B28	Field Sample
SSI-HP-003	B186-04	1	NA	02/22/1114:26	02/22/1114:26	RBV581	RLV333	V001B28	Field Sample
SSI-HP-005	B186-06	1	NA	02/22/1117:38	02/22/1117:38	RBV587	RLV333	V001B28	Field Sample
MBLK2W	V001B29B	1	NA	02/22/1122:25	02/22/1122:25	RBV596	RLV333	V001B29	Method Blank
LCS2W	V001B29L	1	NA	02/22/1120:49	02/22/1120:49	RBV593	RLV333	V001B29	Lab Control Sample (LCS)
LCD2W	V001B29C	1	NA	02/22/1121:21	02/22/1121:21	RBV594	RLV333	V001B29	LCS Duplicate
SSI-HP-009	B186-11	1	NA	02/22/1122:57	02/22/1122:57	RBV597	RLV333	V001B29	Field Sample
SSI-HP-004A	B186-13	1	NA	02/22/1123:30	02/22/1123:30	RBV598	RLV333	V001B29	Field Sample
MBLK3W!	V003B28B	1	NA	02/24/1112:09	02/24/1112:09	RBB475	RBB361	V003B28	Method Blank
LCS3W!	V003B28X	1	NA	02/24/1110:53	02/24/1110:53	RBB473	RBB361	V003B28	Lab Control Sample (LCS)
LCD3W!	V003B28C	1	NA	02/24/1110:04	02/24/1110:04	RBB472	RBB361	V003B28	LCS Duplicate
SSI-HP-001!	B186-01R	1	NA	02/24/1112:46	02/24/1112:46	RBB476	RBB361	V003B28	Field Sample
SSI-TB-001!	B186-02R	1	NA	02/24/1113:23	02/24/1113:23	RBB477	RBB361	V003B28	Field Sample
SSI-HP-002!	B186-03R	1	NA	02/24/1113:59	02/24/1113:59	RBB478	RBB361	V003B28	Field Sample
SSI-HP-007!	B186-08R	1	NA	02/24/1114:35	02/24/1114:35	RBB479	RBB361	V003B28	Field Sample
MBLK4W!	V003B29B	1	NA	02/25/1114:12	02/25/1114:12	RBB489	RBB361	V003B29	Method Blank
LCS4W!	V003B29L	1	NA	02/25/1111:07	02/25/1111:07	RBB485	RBB361	V003B29	Lab Control Sample (LCS)
LCD4W!	V003B29Y	1	NA	02/25/1112:58	02/25/1112:58	RBB487	RBB361	V003B29	LCS Duplicate
SSI-HP-004!	B186-05N	1	NA	02/25/1115:24	02/25/1115:24	RBB491	RBB361	V003B29	Field Sample
SSI-HP-004MS!	B186-05G	1	NA	02/25/1116:00	02/25/1116:00	RBB492	RBB361	V003B29	Matrix Spike Sample (MS)
SSI-HP-004MSD!	B186-05V	1	NA	02/25/1116:36	02/25/1116:36	RBB493	RBB361	V003B29	MS Duplicate (MSD)
SSI-HP-005DL!	B186-06T	10	NA	02/25/1118:24	02/25/1118:24	RBB496	RBB361	V003B29	Diluted Sample

! Instrument ID : T-003
FN - Filename
% Moist - Percent Moisture

2003

SAMPLE RESULTS

2004

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 12:46
Sample ID:	SSI-HP-001	Date Analyzed:	02/24/11 12:46
Lab Samp ID:	B186-01R	Dilution Factor:	1
Lab File ID:	RBB476	Matrix :	WATER
Ext Btch ID:	VO03B28	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.47J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	0.20J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	0.88J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.36J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.78J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.36J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.30J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.54	10.00	95.4	70-120
4-BROMOFLUOROBENZENE	9.63	10.00	96.3	75-120
TOLUENE-D8	9.96	10.00	99.6	85-120
DIBROMOFLUOROMETHANE	9.75	10.00	97.5	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB476.D
Acq On : 24 Feb 2011 12:46 pm
Sample : 11B186-01R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:09 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1493431	10.00	ug/l	-0.02
39) CHLOROBENZENE-D5	18.54	117	1301662	10.00	ug/l	-0.02
70) 1,2-DICHLOROBENZENE-D4	23.10	152	515277	10.00	ug/l	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	624962	9.75	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	97.50%	
38) 1,2-Dichloroethane-d4	12.76	65	598976	9.54	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.40%	
53) Toluene-d8	16.04	98	1964627	9.96	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	99.60%	
74) 4-Bromofluorobenzene	20.48	95	763082	9.63	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	96.30%	
Target Compounds						Qvalue
19) Carbon disulfide	8.50	76	77901	0.47	ug/l	99
30) cis-1,2-Dichloroethene	11.14	96	11856	0.20	ug/l	95
44) Trichloroethene	14.03	130	20387	0.36	ug/l	94
54) Toluene	16.16	91	178671	0.78	ug/l	98
67) m-Xylene & p-Xylene	18.75	91	199528	0.88	ug/l	99
68) o-Xylene	19.48	91	80705	0.36	ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	63951	0.30	ug/l	87

(#) = qualifier out of range (m) = manual integration

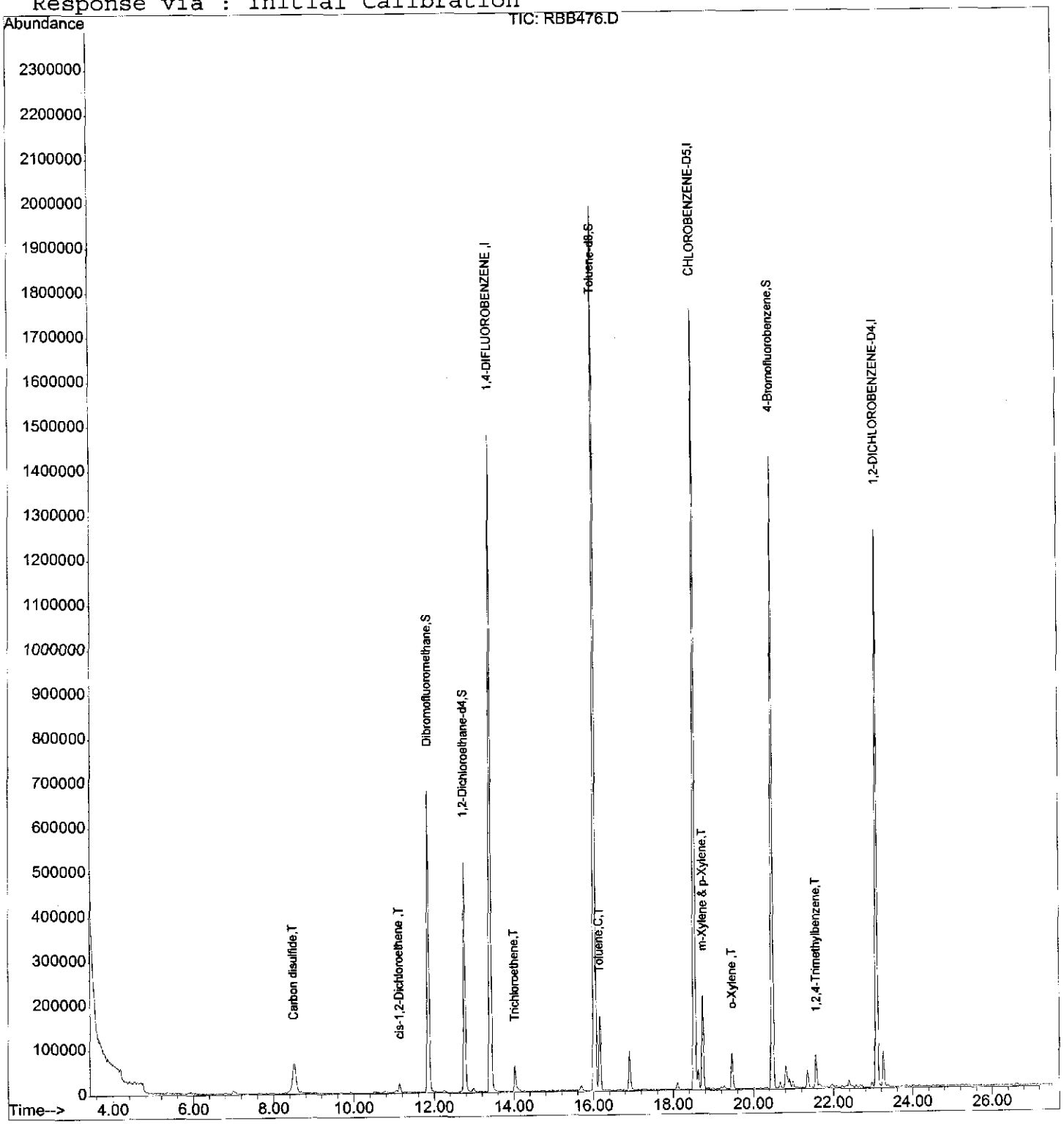
Quantitation Report

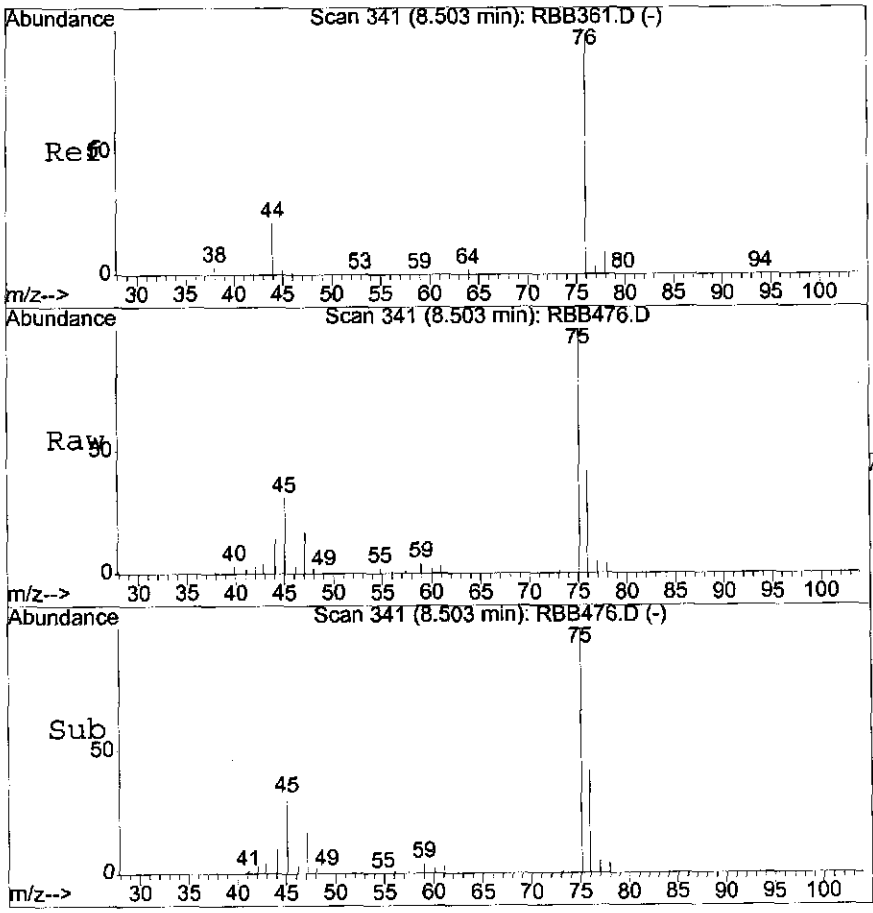
Data File : D:\HPCHEM\1\DATA\11B24\RBB476.D
Acq On : 24 Feb 2011 12:46 pm
Sample : 11B186-01R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:09 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

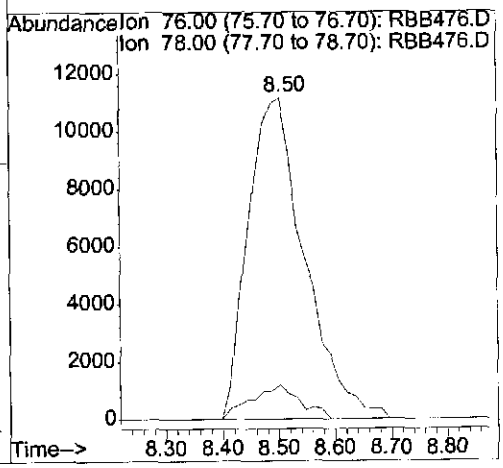


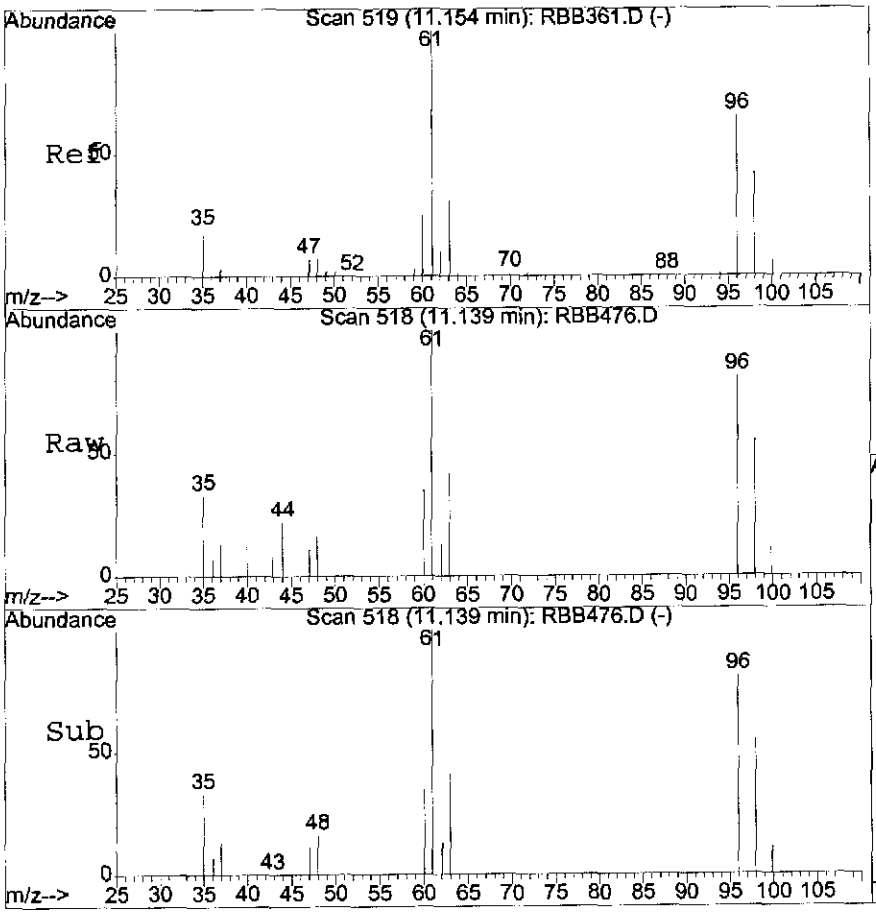


#19
Carbon disulfide
Concen: 0.47 ug/l
RT: 8.50 min Scan# 341
Delta R.T. -0.00 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion: 76 Resp: 77901

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	38.9

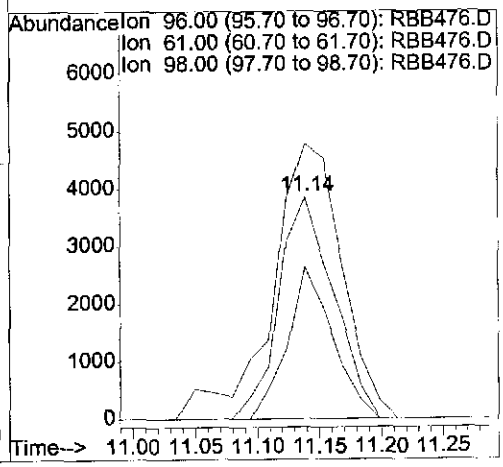


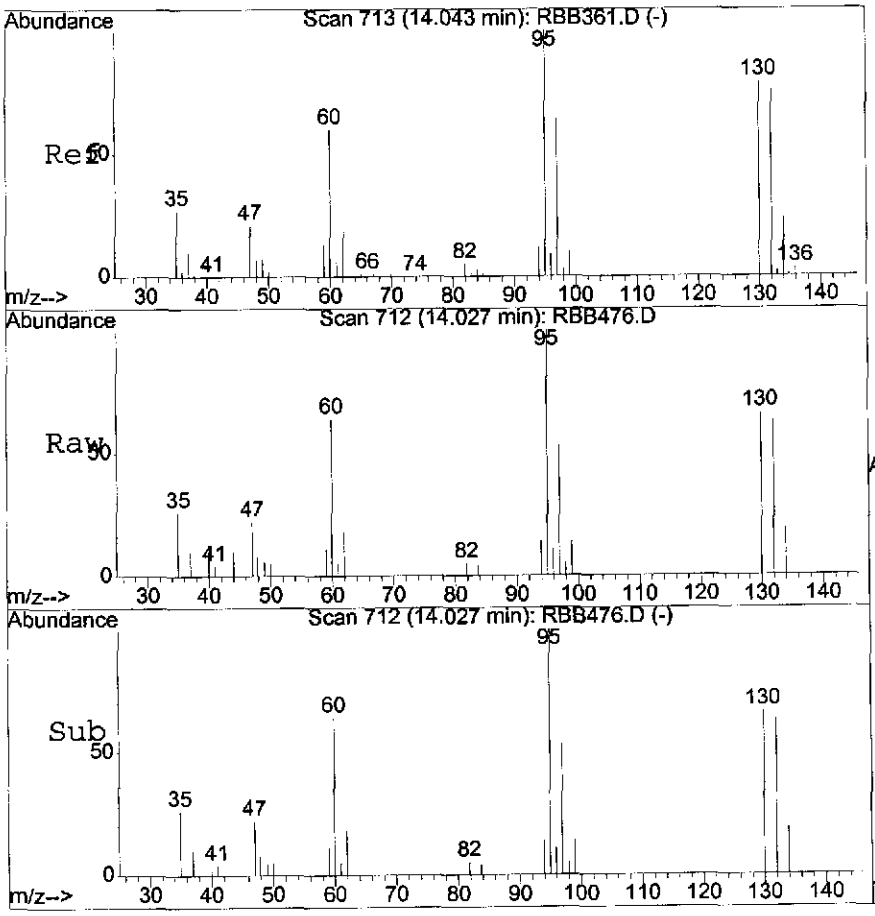


#30
cis-1,2-Dichloroethene
Concen: 0.20 ug/l
RT: 11.14 min Scan# 518
Delta R.T. -0.02 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion: 96 Resp: 11856

Ion	Ratio	Lower	Upper
96	100		
61	158.0	132.3	192.3
98	56.8	34.0	94.0

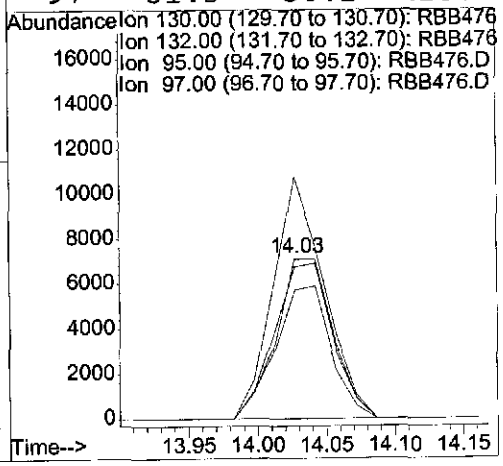


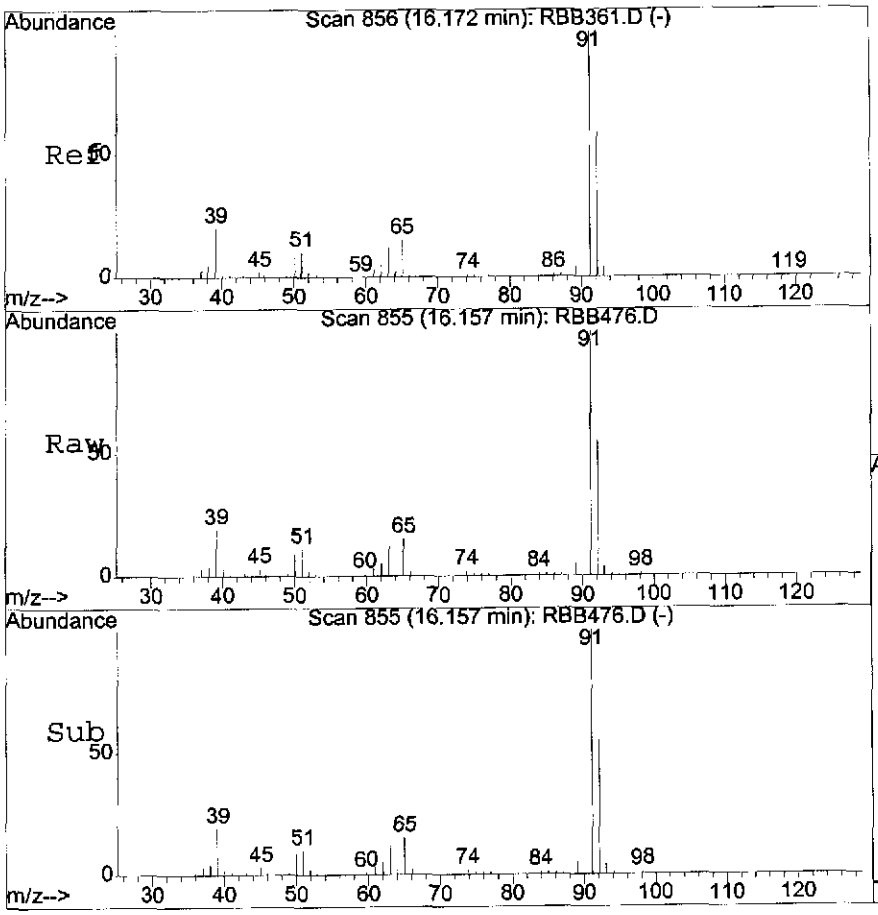


#44
Trichloroethene
Concen: 0.36 ug/l
RT: 14.03 min Scan# 712
Delta R.T. -0.02 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion:130 Resp: 20387

Ion	Ratio	Lower	Upper
130	100		
132	99.3	67.3	127.3
95	136.1	93.7	153.7
97	81.3	50.2	110.2

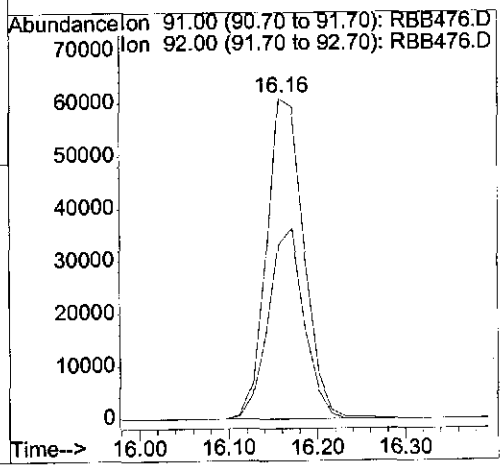


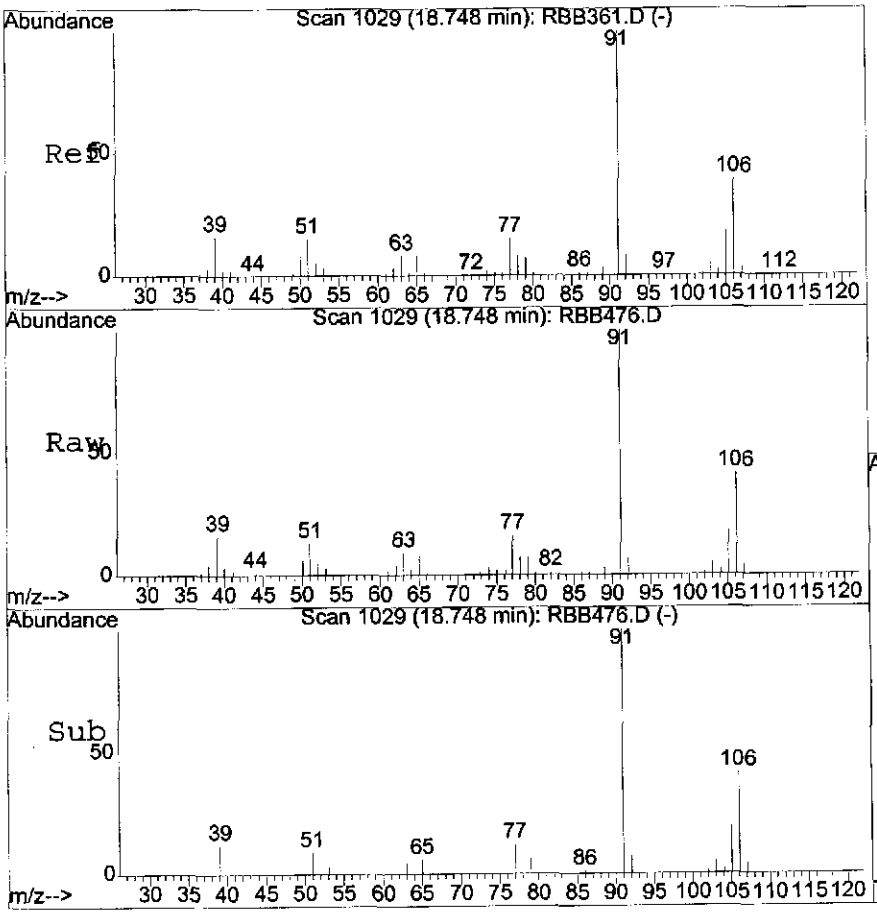


#54
Toluene
Concen: 0.78 ug/l
RT: 16.16 min Scan# 855
Delta R.T. -0.02 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion: 91 Resp: 178671

Ion	Ratio	Lower	Upper
91	100		
92	57.2	28.3	88.3

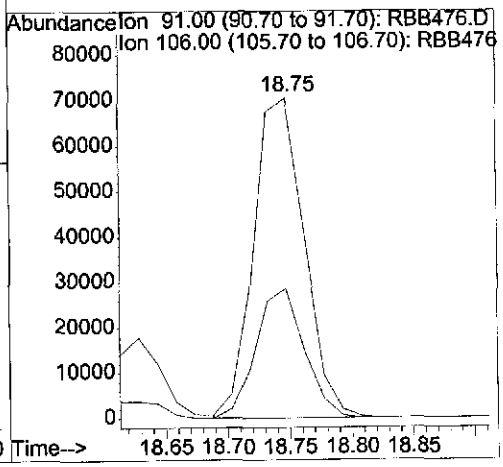


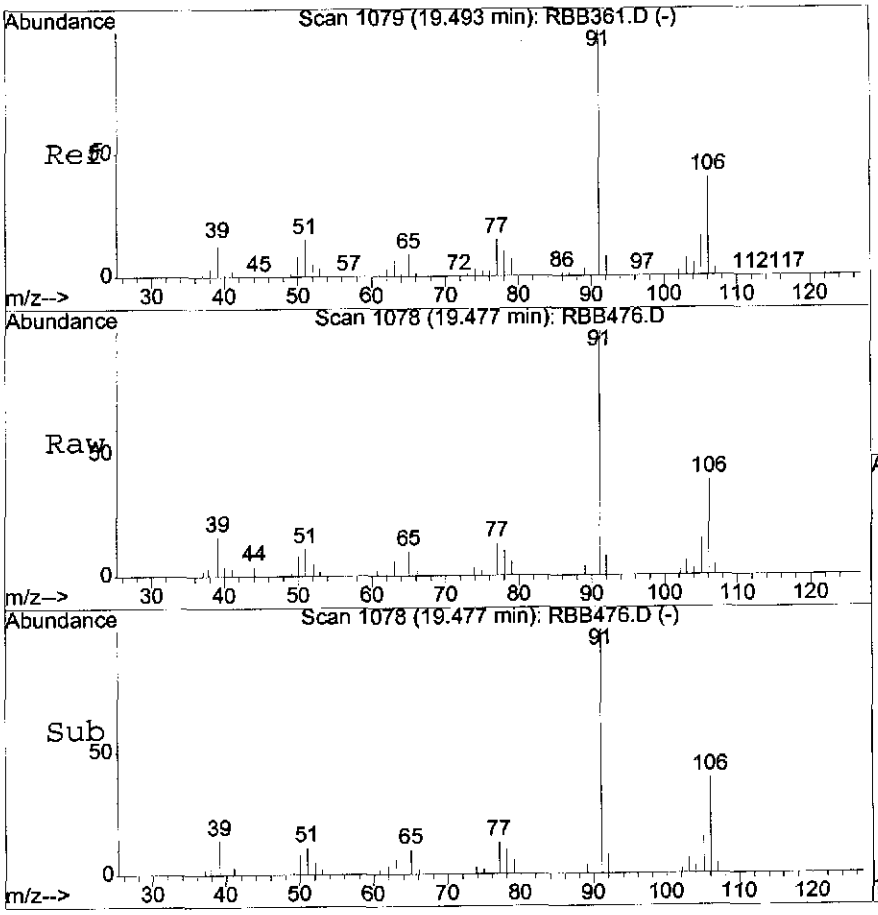


#67
m-Xylene & p-Xylene
Concen: 0.88 ug/l
RT: 18.75 min Scan# 1029
Delta R.T. -0.00 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion: 91 Resp: 199528

Ion	Ratio	Lower	Upper
91	100		
106	38.7	9.6	69.6

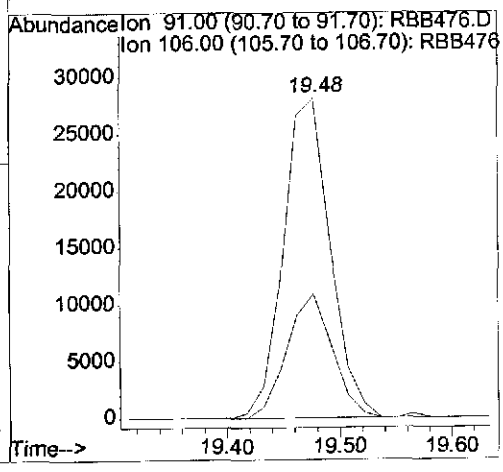


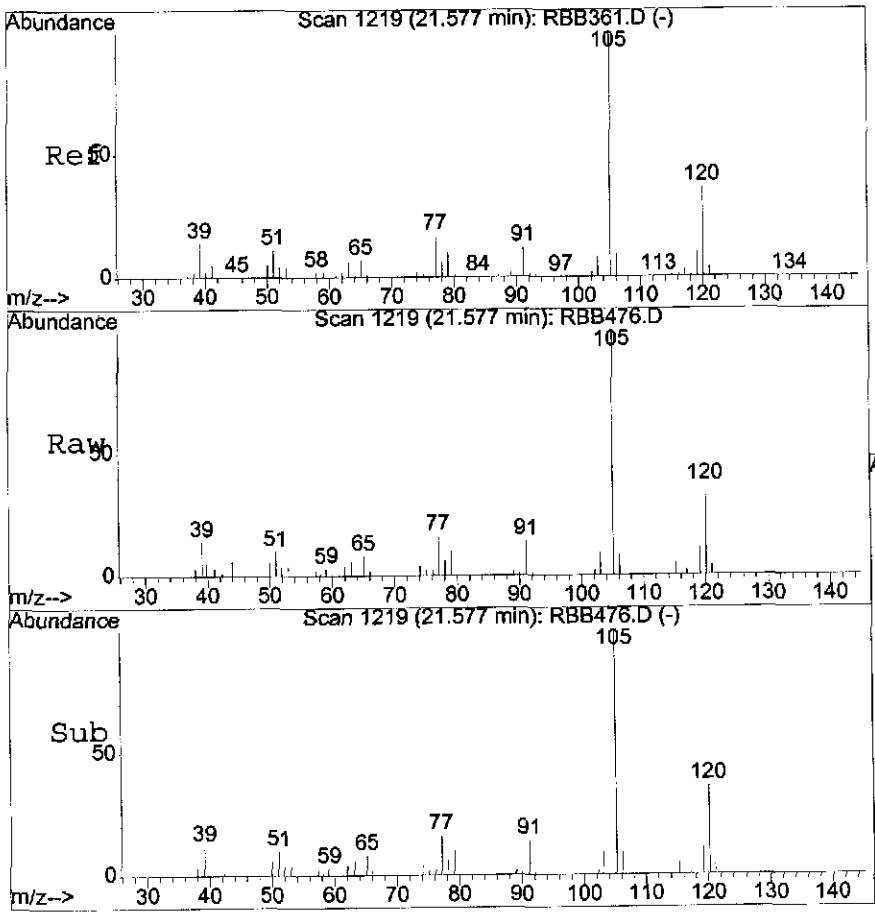


#68
o-Xylene
Concen: 0.36 ug/l
RT: 19.48 min Scan# 1078
Delta R.T. -0.01 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion: 91 Resp: 80705

Ion	Ratio	Lower	Upper
91	100		
106	37.6	8.0	68.0

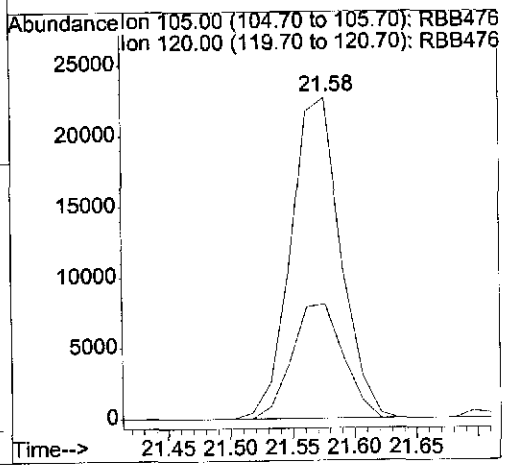




#83
1,2,4-Trimethylbenzene
Concen: 0.30 ug/l
RT: 21.58 min Scan# 1219
Delta R.T. 0.00 min
Lab File: RBB476.D
Acq: 24 Feb 2011 12:46 pm

Tgt Ion:105 Resp: 63951

Ion	Ratio	Lower	Upper
105	100		
120	36.7	15.5	75.5



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 13:23
Sample ID:	SSI-TB-001	Date Analyzed:	02/24/11 13:23
Lab Samp ID:	B186-02R	Dilution Factor:	1
Lab File ID:	RBB477	Matrix :	WATER
Ext Btch ID:	V003B28	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.82J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.79	10.00	97.9	70-120
4-BROMOFLUOROBENZENE	9.73	10.00	97.3	75-120
TOLUENE-D8	9.79	10.00	97.9	85-120
DIBROMOFLUOROMETHANE	10.1	10.00	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB477.D
Acq On : 24 Feb 2011 1:23 pm
Sample : 11B186-02R 25mL
Misc : DF=1.0 LOT#TB-003-01-09
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:09 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1763809	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1603824	10.00	ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.10	152	602793	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	761232	10.05	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.50%	
38) 1,2-Dichloroethane-d4	12.76	65	725914	9.79	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.90%	
53) Toluene-d8	16.02	98	2380130	9.79	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	97.90%	
74) 4-Bromofluorobenzene	20.48	95	902186	9.73	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.30%	
Target Compounds						Qvalue
54) Toluene	16.17	91	230098	0.82	ug/l	100

(#) = qualifier out of range (m) = manual integration

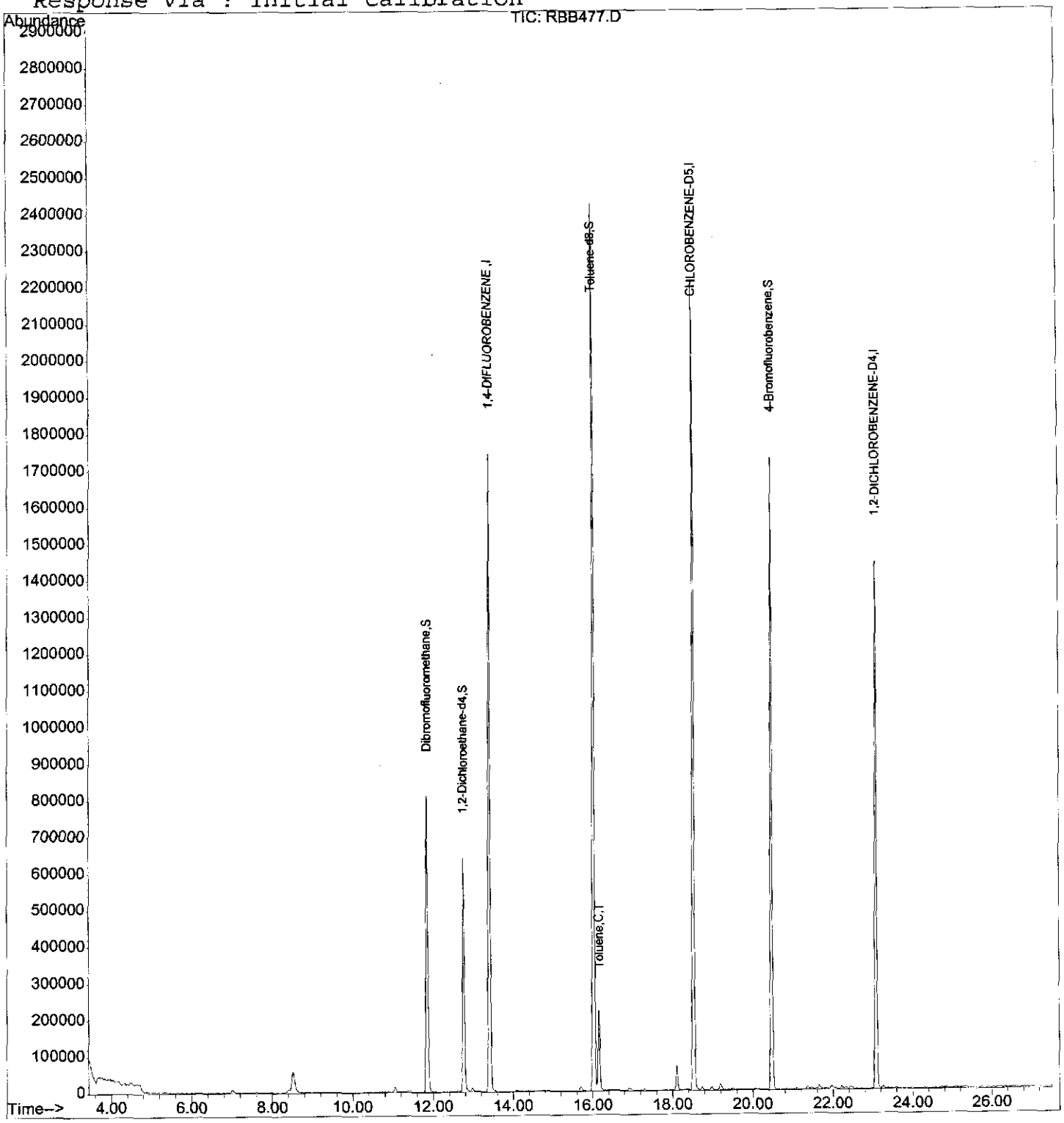
Quantitation Report

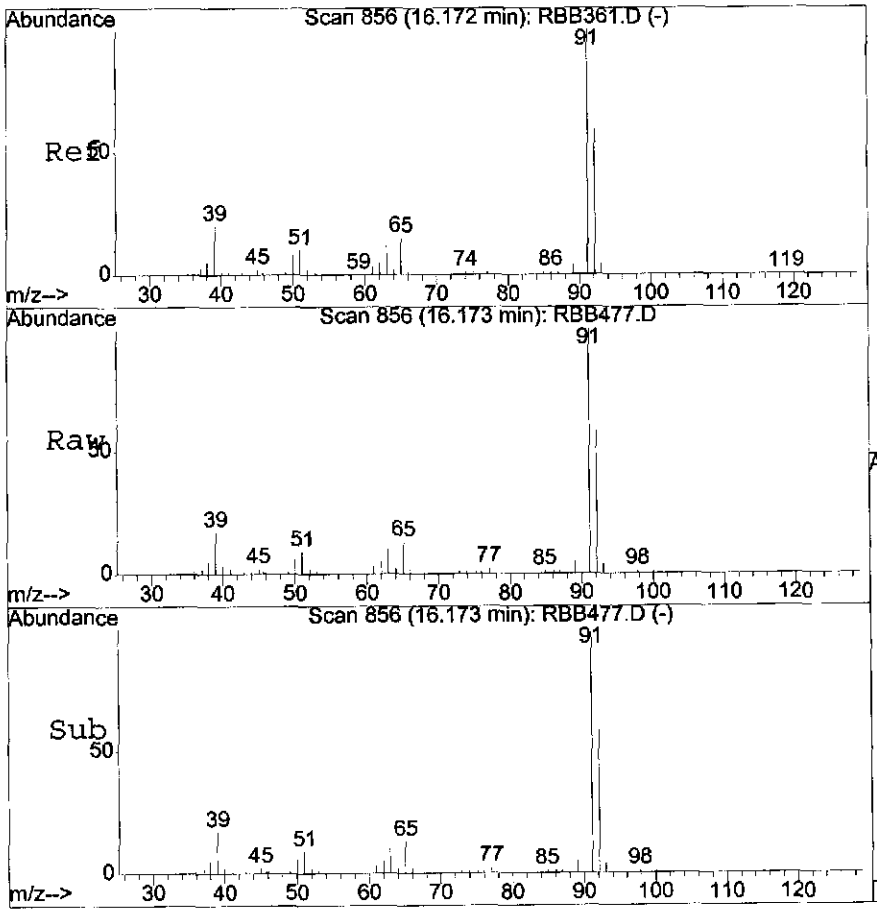
Data File : D:\HPCHEM\1\DATA\11B24\RBB477.D
Acq On : 24 Feb 2011 1:23 pm
Sample : 11B186-02R 25mL
Misc : DF=1.0 LOT#TB-003-01-09
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:09 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

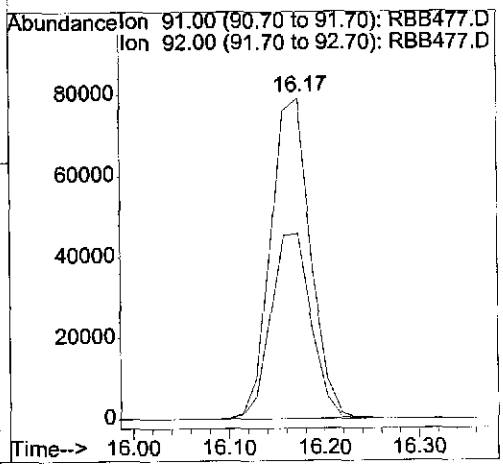




#54
Toluene
Concen: 0.82 ug/l
RT: 16.17 min Scan# 856
Delta R.T. 0.00 min
Lab File: RBB477.D
Acq: 24 Feb 2011 1:23 pm

Tgt Ion: 91 Resp: 230098

Ion	Ratio	Lower	Upper
91	100		
92	58.5	28.3	88.3



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 13:59
Sample ID:	SSI-HP-002	Date Analyzed:	02/24/11 13:59
Lab Samp ID:	B186-03R	Dilution Factor:	1
Lab File ID:	RBB478	Matrix :	WATER
Ext Btch ID:	V003B28	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.28J	1.0	0.20
M/P-XYLENES	1.6J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.66J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.2	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.66J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.50J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.83	10.00	98.3	70-120
4-BROMOFLUOROBENZENE	9.53	10.00	95.3	75-120
TOLUENE-D8	9.54	10.00	95.4	85-120
DIBROMOFLUOROMETHANE	10.1	10.00	101	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB478.D
Acq On : 24 Feb 2011 1:59 pm
Sample : 11B186-03R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:10 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1684378	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1552308	10.00	ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.10	152	602341	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	727024	10.05	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.50%	
38) 1,2-Dichloroethane-d4	12.76	65	696410	9.83	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.30%	
53) Toluene-d8	16.04	98	2242596	9.54	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	95.40%	
74) 4-Bromofluorobenzene	20.48	95	882595	9.53	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	95.30%	
Target Compounds						Qvalue
44) Trichloroethene	14.03	130	44736	0.66	ug/l	99
54) Toluene	16.17	91	314738	1.15	ug/l	99
66) Ethylbenzene	18.63	91	96395	0.28	ug/l	97
67) m-Xylene & p-Xylene	18.75	91	431809	1.60	ug/l	97
68) o-Xylene	19.48	91	177491	0.66	ug/l	98
83) 1,2,4-Trimethylbenzene	21.58	105	124726	0.50	ug/l	88

(#) = qualifier out of range (m) = manual integration

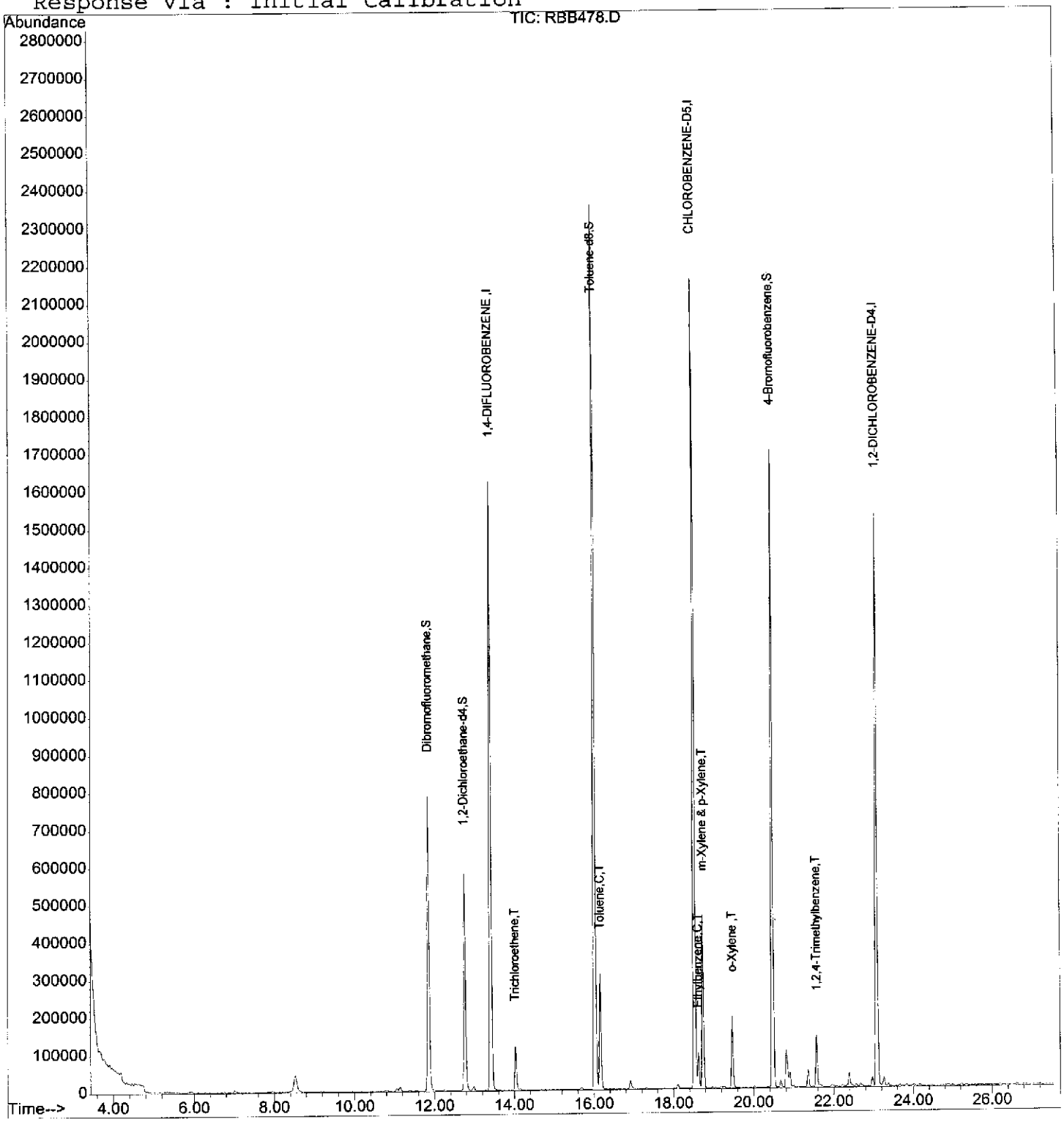
Quantitation Report

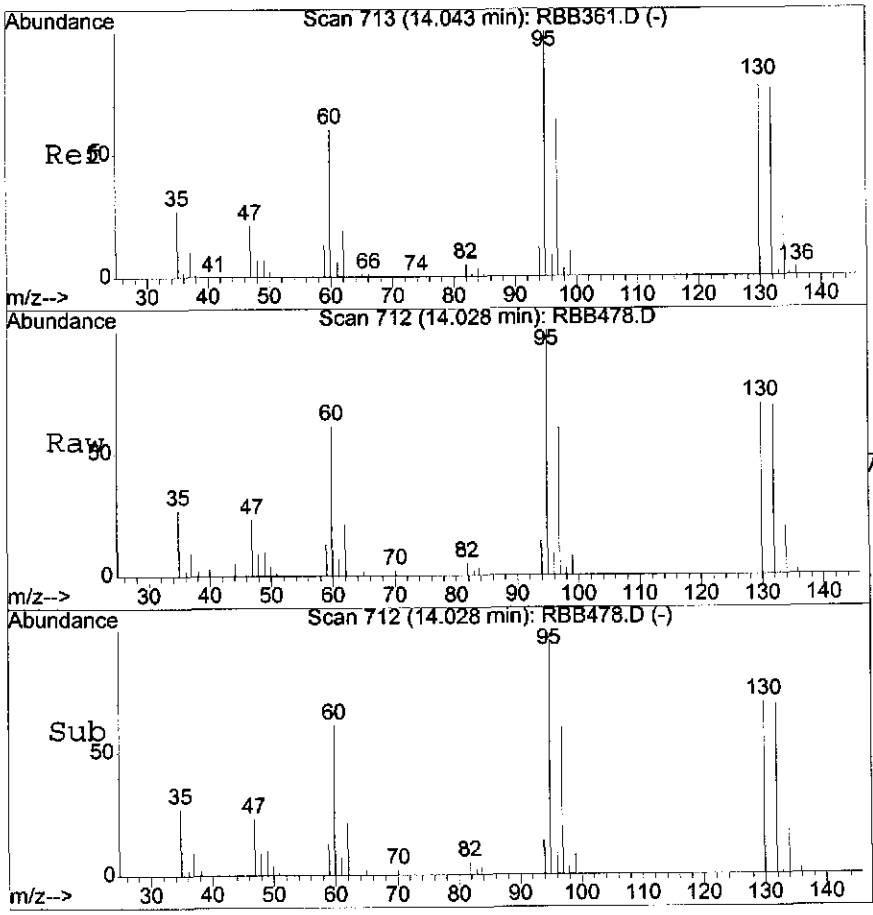
Data File : D:\HPCHEM\1\DATA\11B24\RBB478.D
Acq On : 24 Feb 2011 1:59 pm
Sample : 11B186-03R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:10 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

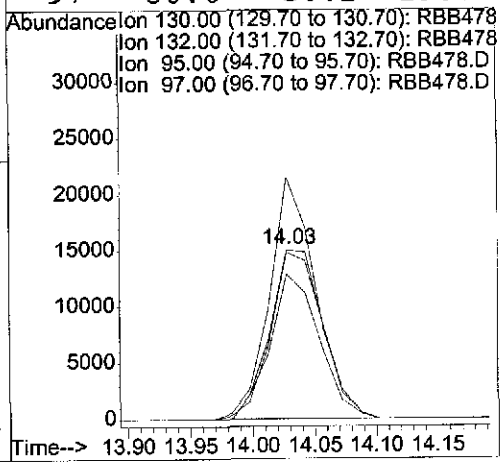


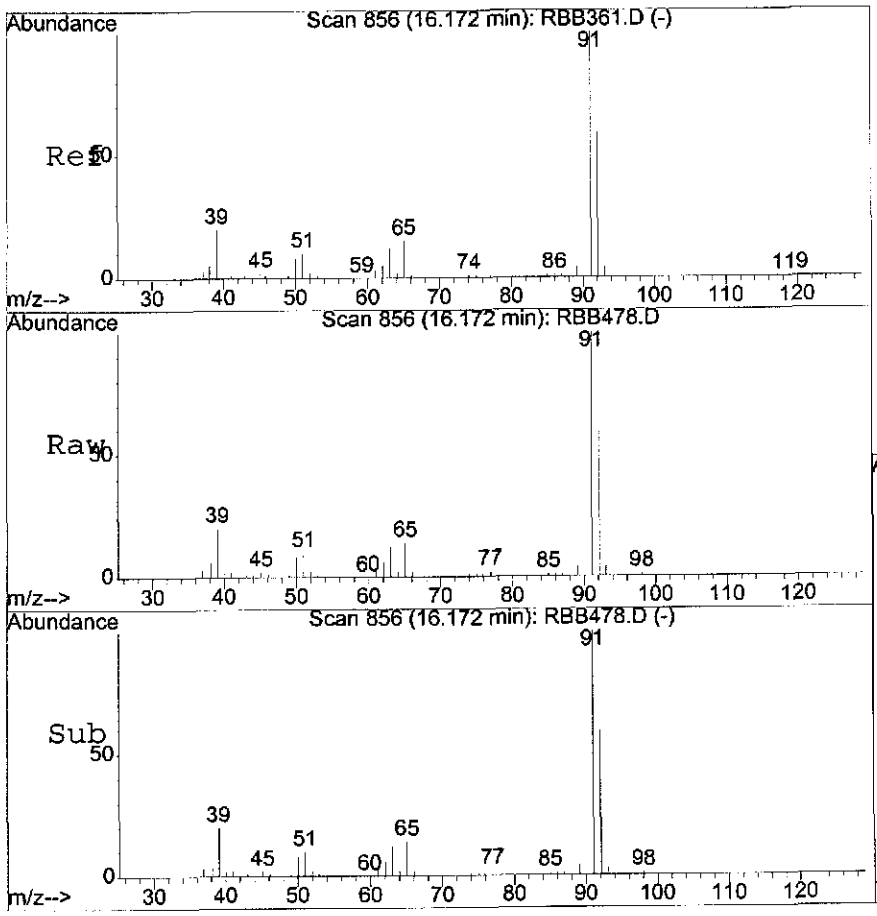


#44
Trichloroethene
Concen: 0.66 ug/l
RT: 14.03 min Scan# 712
Delta R.T. -0.01 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion:130 Resp: 44736

Ion	Ratio	Lower	Upper
130	100		
132	97.1	67.3	127.3
95	124.7	93.7	153.7
97	80.0	50.2	110.2

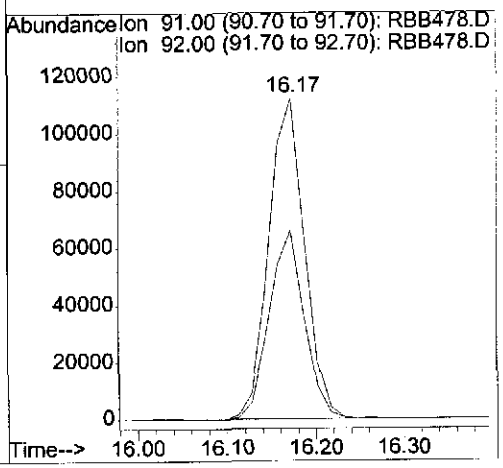


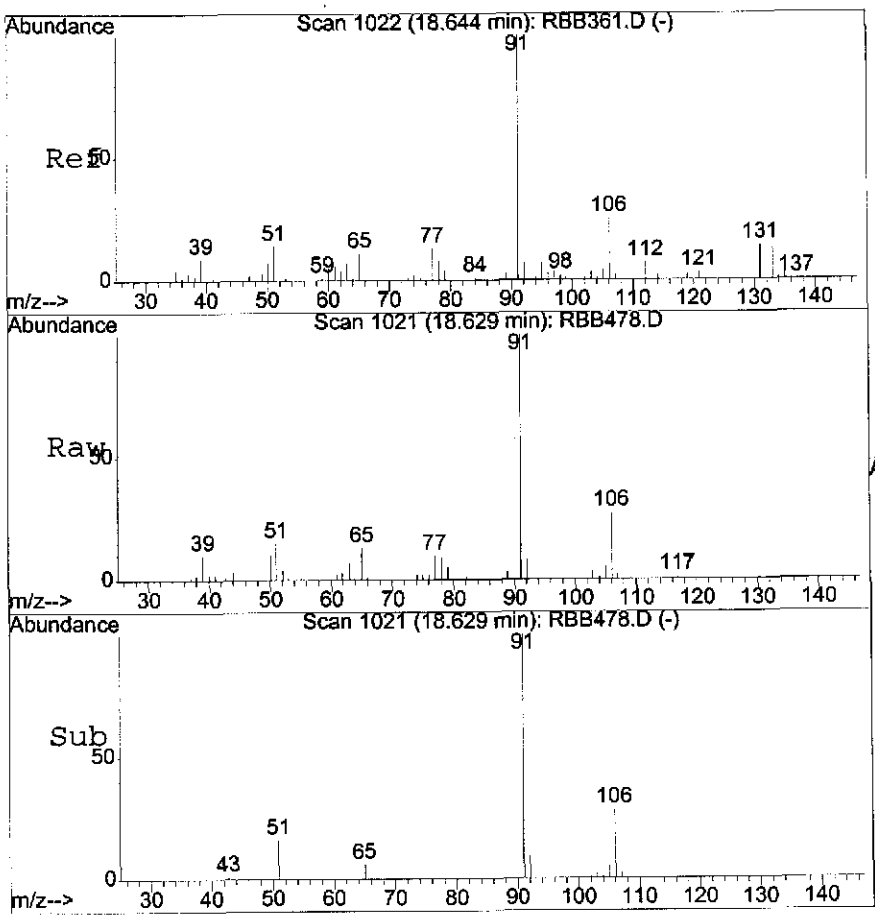


#54
Toluene
Concen: 1.15 ug/l
RT: 16.17 min Scan# 856
Delta R.T. 0.00 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion: 91 Resp: 314738

Ion	Ratio	Lower	Upper
91	100		
92	57.8	28.3	88.3

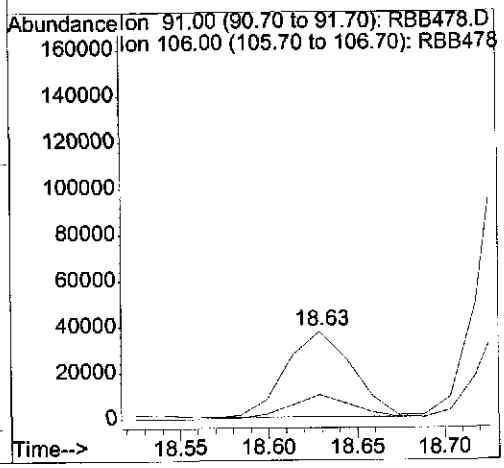


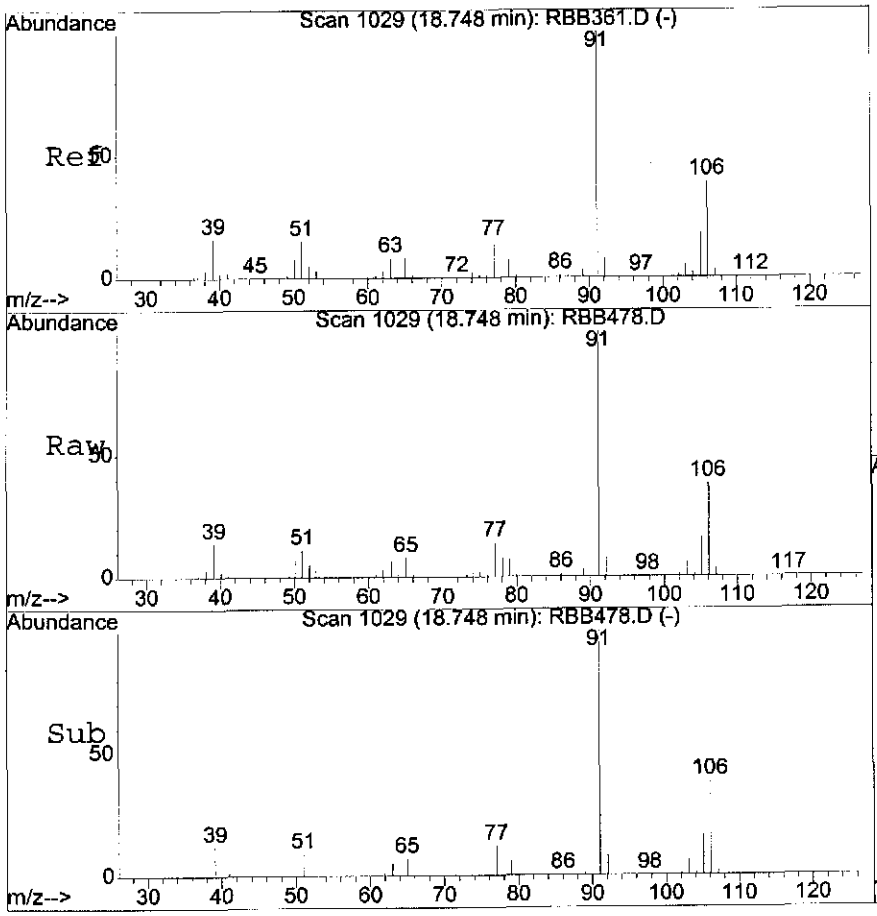


#66
Ethylbenzene
Concen: 0.28 ug/l
RT: 18.63 min Scan# 1021
Delta R.T. -0.01 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion: 91 Resp: 96395

Ion	Ratio	Lower	Upper
91	100		
106	26.3	0.0	55.0

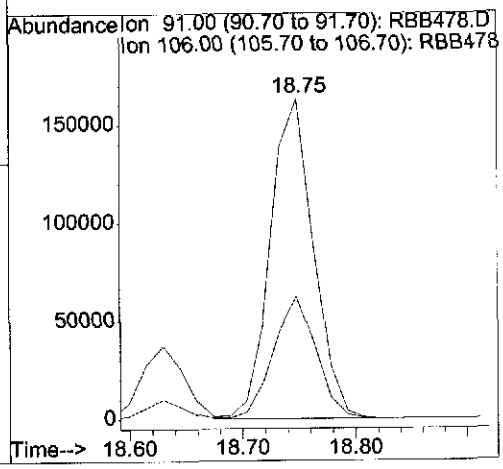


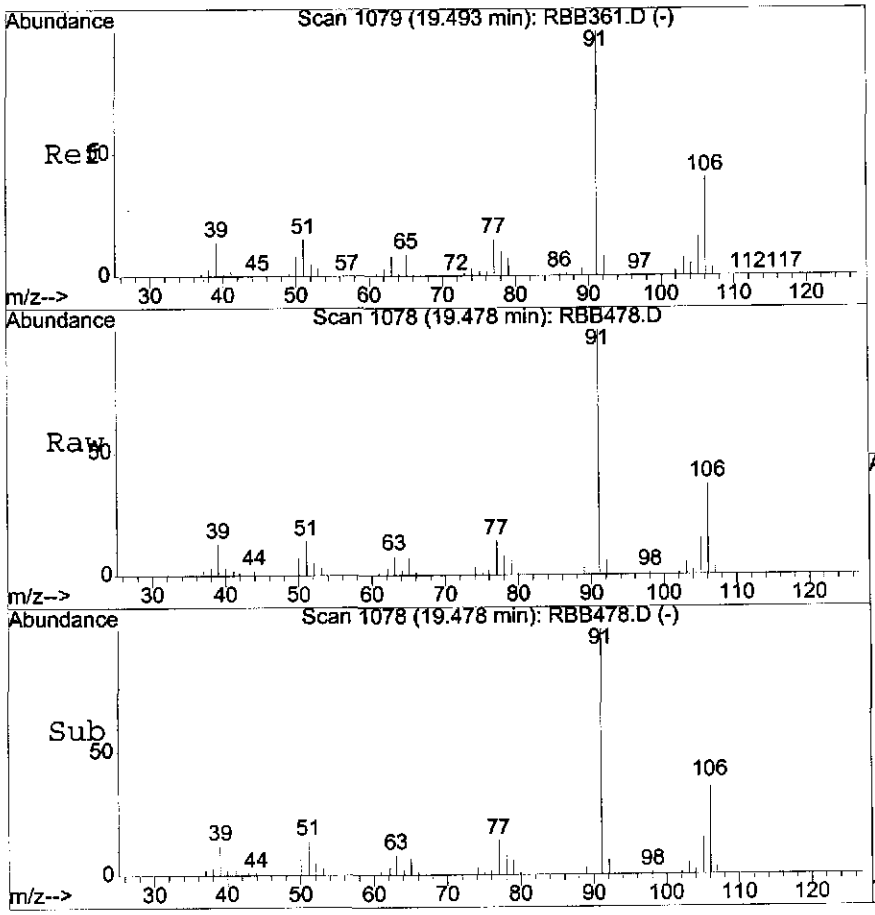


#67
m-Xylene & p-Xylene
Concen: 1.60 ug/l
RT: 18.75 min Scan# 1029
Delta R.T. 0.00 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion: 91 Resp: 431809

Ion	Ratio	Lower	Upper
91	100		
106	37.7	9.6	69.6

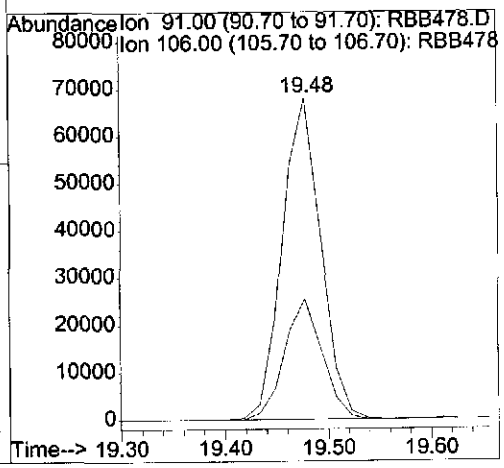


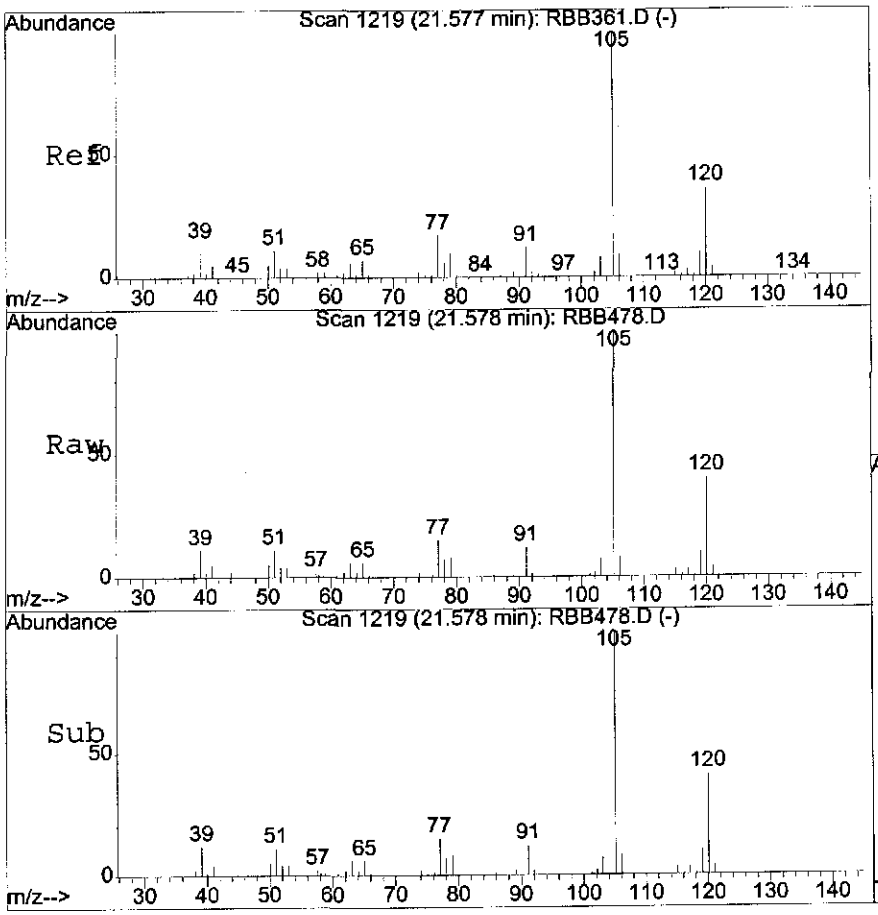


#68
o-Xylene
Concen: 0.66 ug/l
RT: 19.48 min Scan# 1078
Delta R.T. -0.01 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion: 91 Resp: 177491

Ion	Ratio	Lower	Upper
91	100		
106	36.7	8.0	68.0

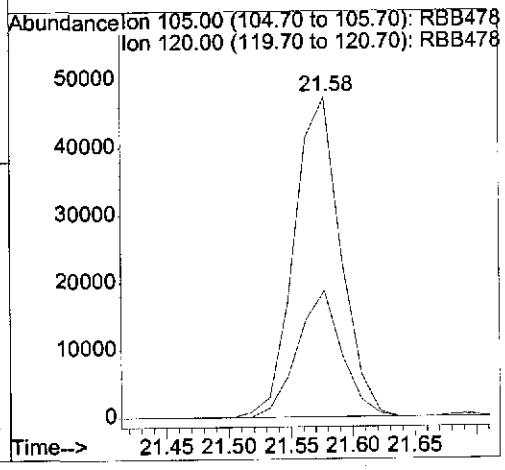




#83
1,2,4-Trimethylbenzene
Concen: 0.50 ug/l
RT: 21.58 min Scan# 1219
Delta R.T. 0.00 min
Lab File: RBB478.D
Acq: 24 Feb 2011 1:59 pm

Tgt Ion:105 Resp: 124726

Ion	Ratio	Lower	Upper
105	100		
120	37.7	15.5	75.5



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 14:26
Sample ID:	SSI-HP-003	Date Analyzed:	02/22/11 14:26
Lab Samp ID:	B186-04	Dilution Factor:	1
Lab File ID:	RBV581	Matrix	: WATER
Ext Btch ID:	V001B28	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.41J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	3.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.26J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.28J	1.0	0.20
TRICHLOROETHENE	14	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.71	10.00	97.1	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.59	10.00	95.9	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV581.D
Acq On : 22 Feb 2011 2:26 pm
Sample : 11B186-04 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:12 2011

Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1372379	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1205112	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	408947	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	394156	9.59	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.90%	
40) 1,2-Dichloroethane-d4	8.20	65	312211	9.71	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.10%	
55) Toluene-d8	11.29	98	1632107	10.40	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	104.00%	
76) 4-Bromofluorobenzene	16.29	95	489594	10.56	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.60%	
Target Compounds						Qvalue
13) Acetone	4.23	43	37522	6.93	ug/l	57
20) Carbon disulfide	5.08	76	43586	0.41	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	19569	0.28	ug/l	98
31) cis-1,2-Dichloroethene	6.90	96	196615	3.87	ug/l	91
46) Trichloroethene	9.32	130	705987	14.19	ug/l	98
56) Toluene	11.44	91	49098	0.26	ug/l	98

(#) = qualifier out of range (m) = manual integration

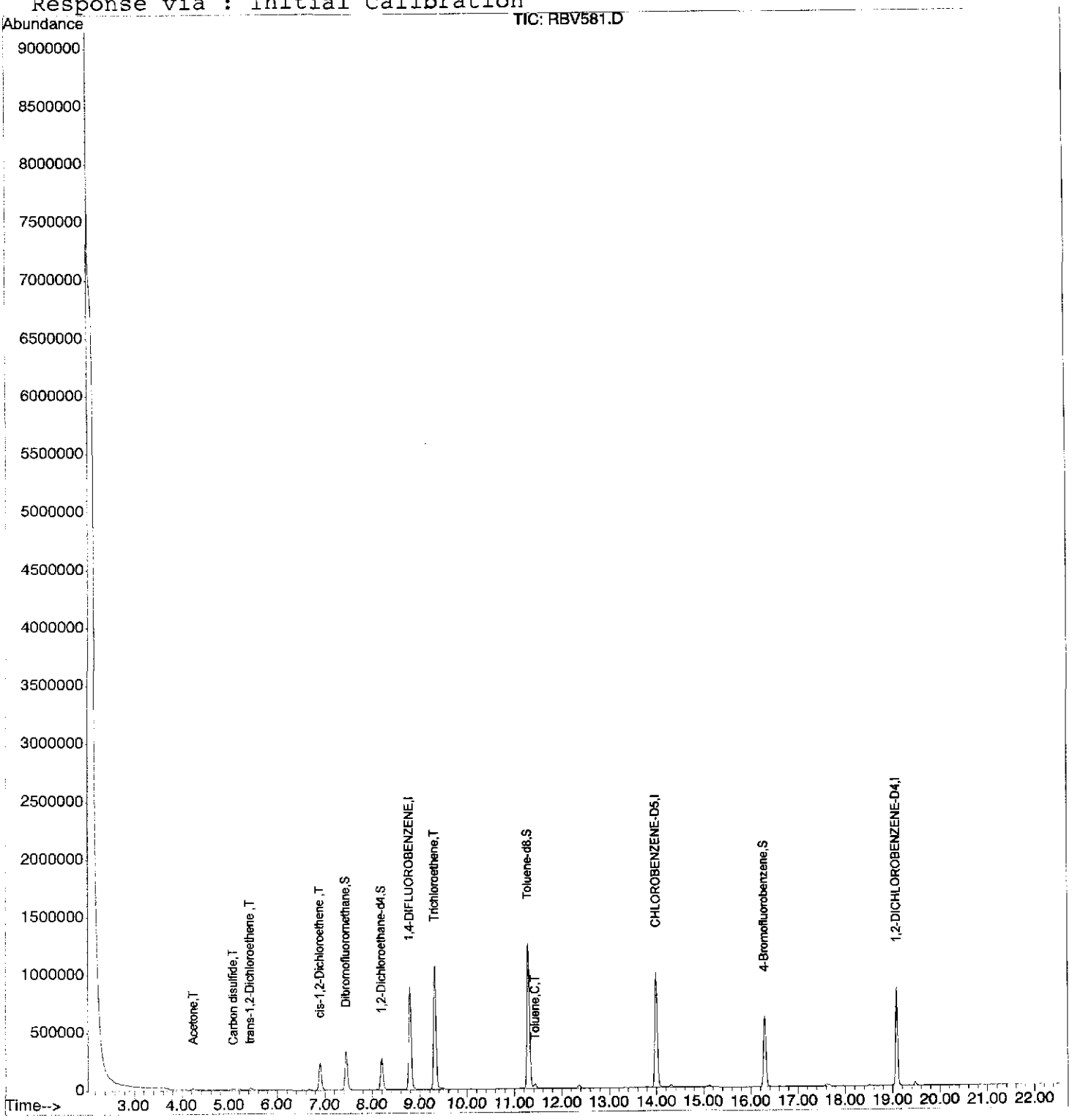
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV581.D
Acq On : 22 Feb 2011 2:26 pm
Sample : 11B186-04 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:12 2011

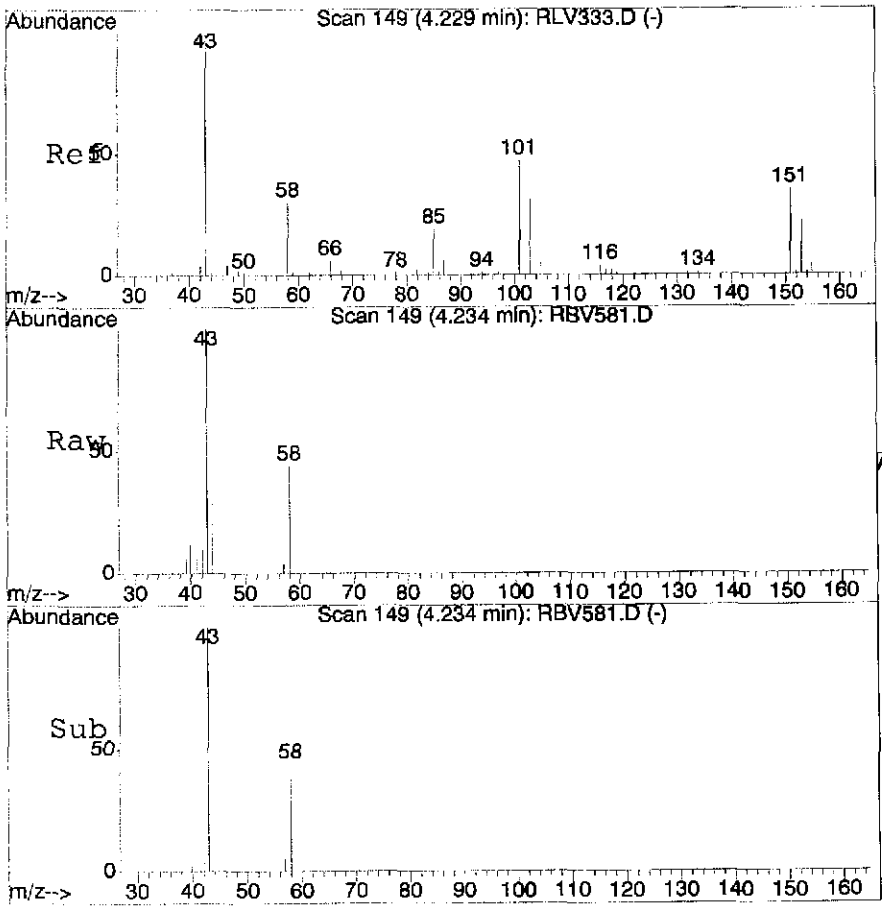
Vial: 16
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



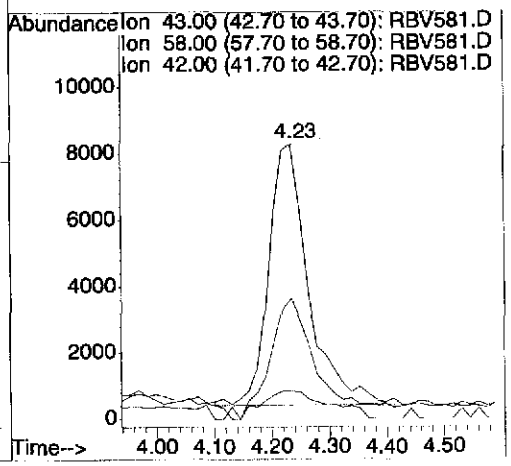
2024

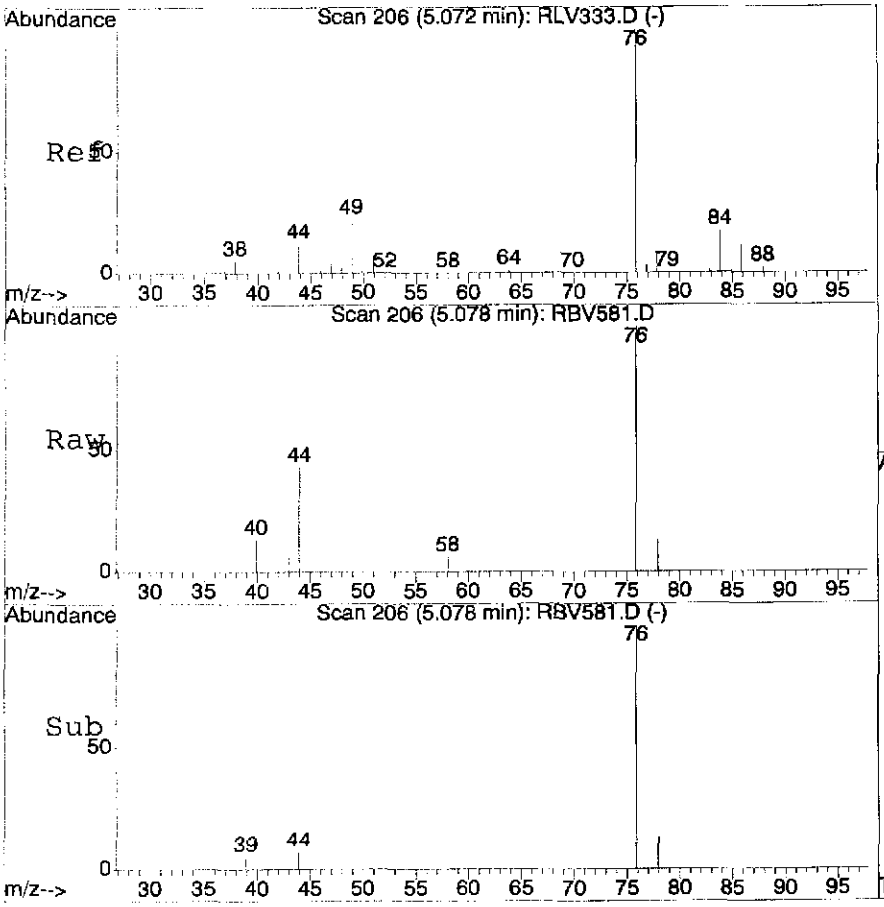


#13
Acetone
Concen: 6.93 ug/l
RT: 4.23 min Scan# 149
Delta R.T. 0.01 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion: 43 Resp: 37522

Ion	Ratio	Lower	Upper
43	100		
58	56.6	1.4	61.4
42	17.7	0.0	37.2

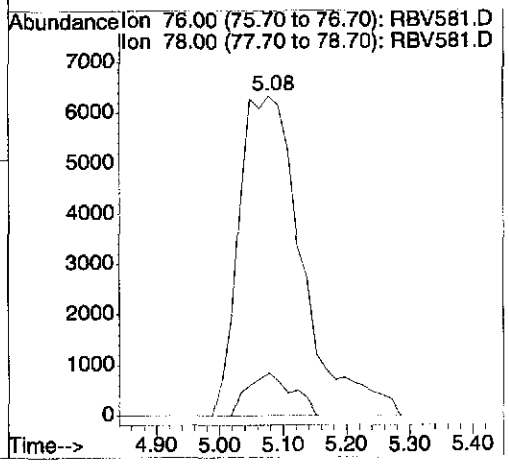


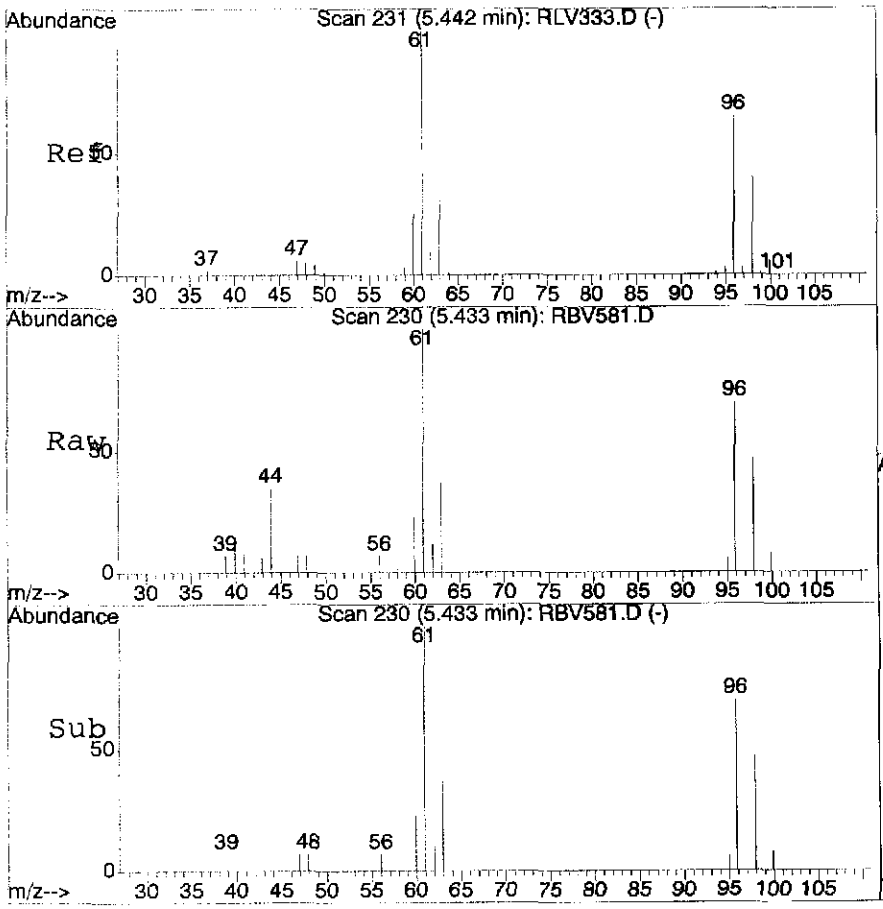


#20
Carbon disulfide
Concen: 0.41 ug/l
RT: 5.08 min Scan# 206
Delta R.T. 0.01 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion: 76 Resp: 43586

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	38.9

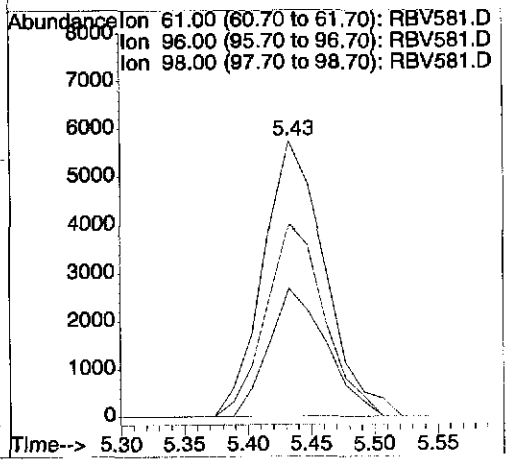


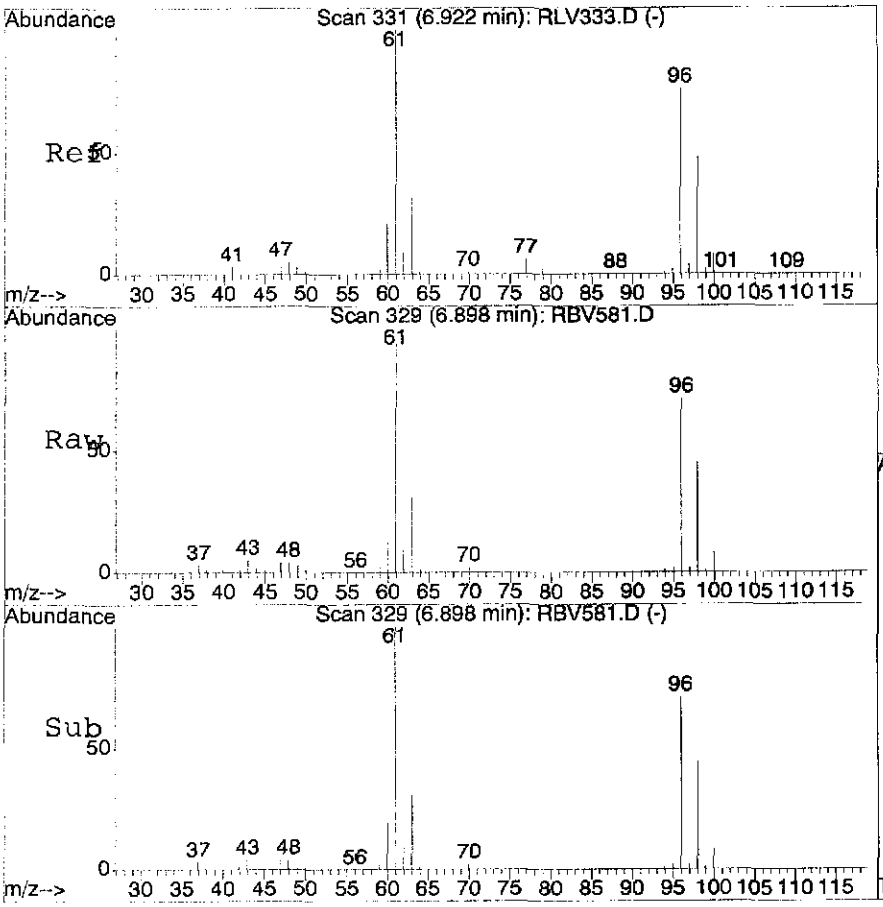


#23
trans-1,2-Dichloroethene
Concen: 0.28 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion: 61 Resp: 19569

Ion	Ratio	Lower	Upper
61	100		
96	66.6	36.0	96.0
98	43.6	11.6	71.6

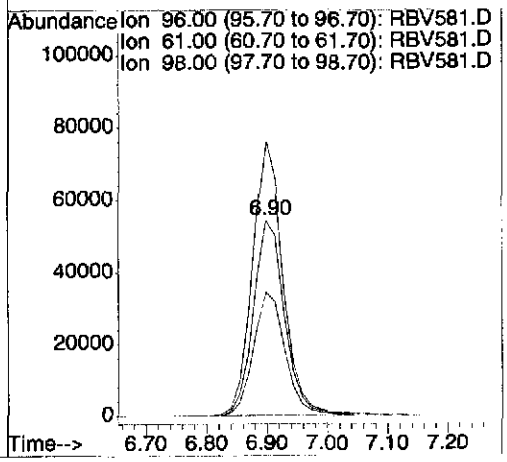


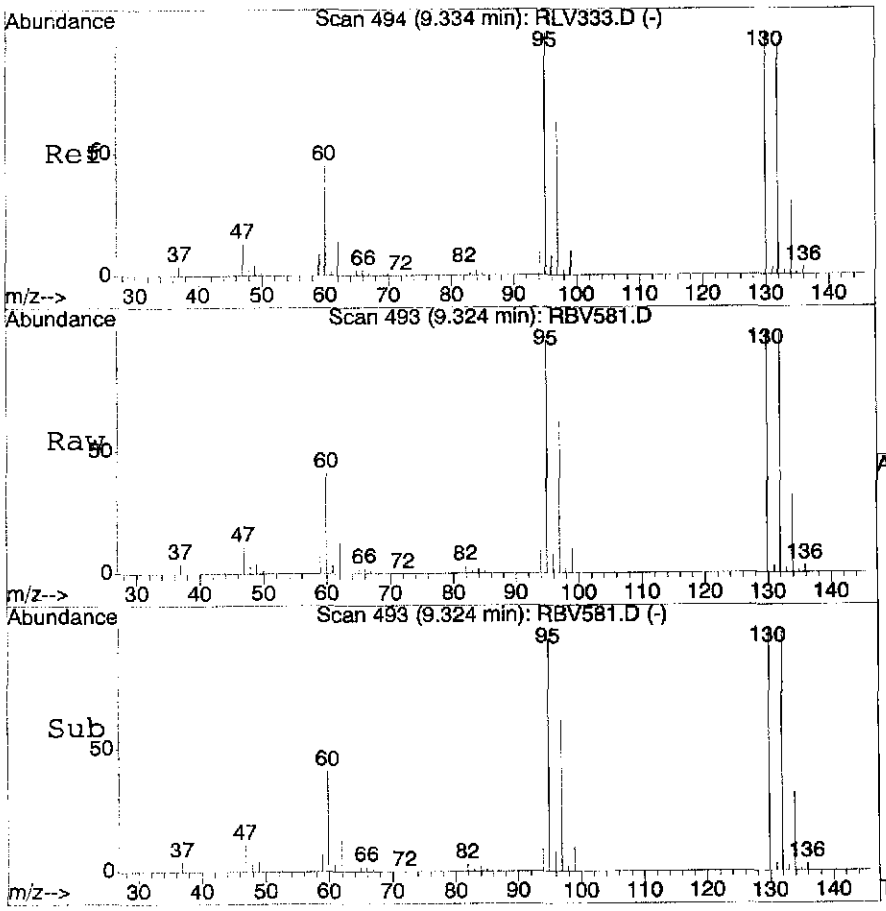


#31
cis-1,2-Dichloroethene
Concen: 3.87 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.02 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion: 96 Resp: 196615

Ion	Ratio	Lower	Upper
96	100		
61	137.1	123.3	183.3
98	63.7	33.4	93.4

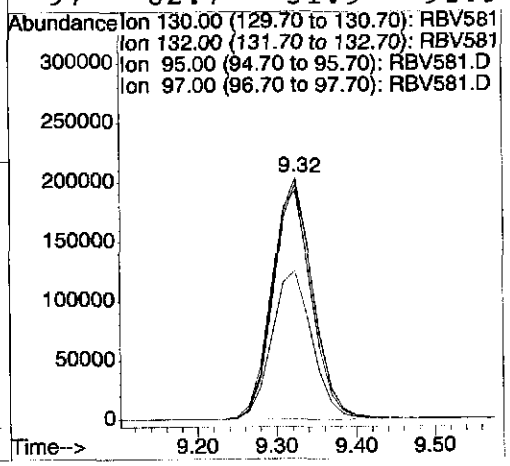


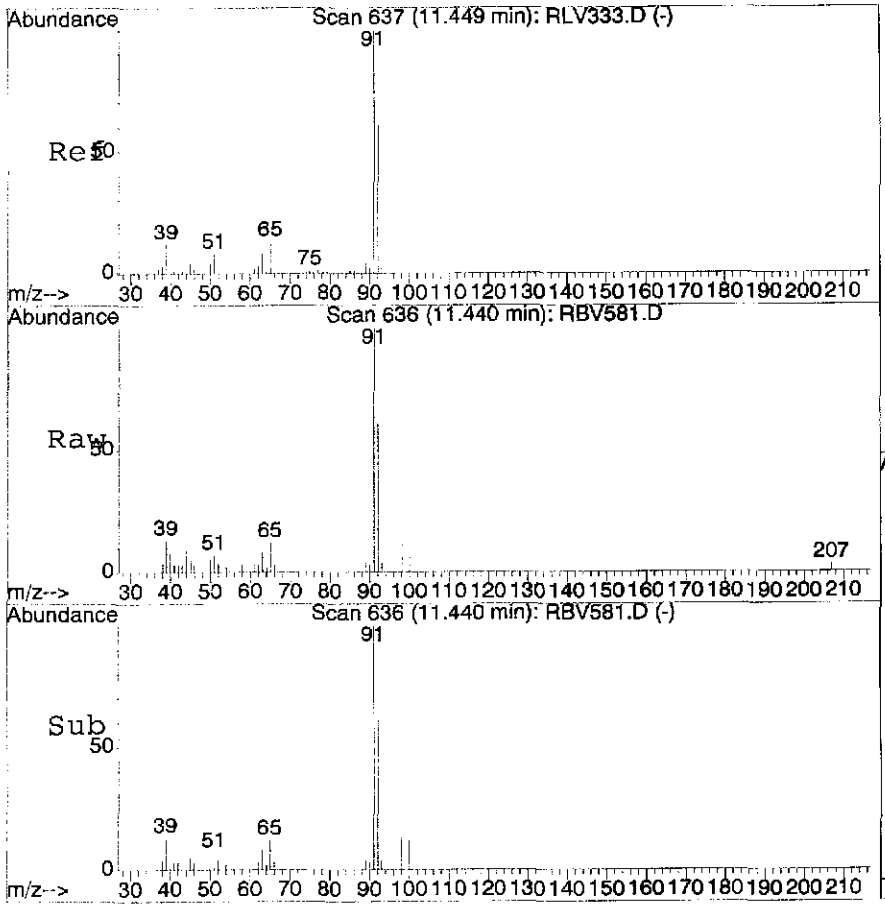


#46
Trichloroethene
Concen: 14.19 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion:130 Resp: 705987

Ion	Ratio	Lower	Upper
130	100		
132	97.5	64.2	124.2
95	97.3	67.2	127.2
97	62.7	31.9	91.9

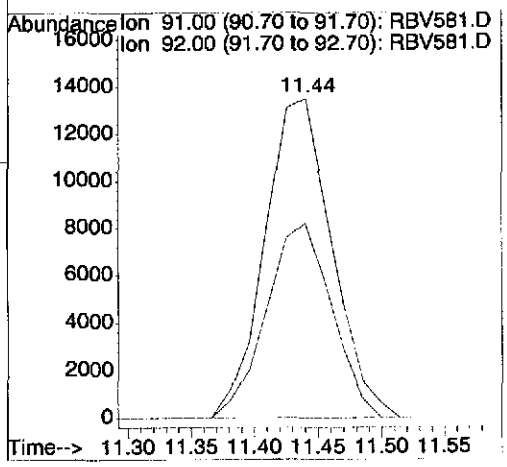




#56
Toluene
Concen: 0.26 ug/l
RT: 11.44 min Scan# 636
Delta R.T. -0.01 min
Lab File: RBV581.D
Acq: 22 Feb 2011 2:26 pm

Tgt Ion: 91 Resp: 49098

Ion	Ratio	Lower	Upper
91	100		
92	59.3	31.0	91.0



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/25/11 15:24
Sample ID:	SSI-HP-004	Date Analyzed:	02/25/11 15:24
Lab Samp ID:	B186-05N	Dilution Factor:	1
Lab File ID:	RBB491	Matrix :	WATER
Ext Btch ID:	V003B29	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.52J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	5.6	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.30J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.54J	1.0	0.20
TRICHLOROETHENE	94	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	9.32	10.00	93.2	75-120
TOLUENE-D8	9.36	10.00	93.6	85-120
DIBROMOFLUOROMETHANE	10.3	10.00	103	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB491.D
Acq On : 25 Feb 2011 3:24 pm
Sample : 11B186-05N 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:22 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.44	114	1741419	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1621933	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.10	152	628548	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	766362	10.25 ug/l	0.00
Spiked Amount 10.000			Recovery	= 102.50%	
38) 1,2-Dichloroethane-d4	12.78	65	738855	10.09 ug/l	0.00
Spiked Amount 10.000			Recovery	= 100.90%	
53) Toluene-d8	16.04	98	2300448	9.36 ug/l	0.00
Spiked Amount 10.000			Recovery	= 93.60%	
74) 4-Bromofluorobenzene	20.48	95	901233	9.32 ug/l	0.00
Spiked Amount 10.000			Recovery	= 93.20%	
Target Compounds					Qvalue
19) Carbon disulfide	8.51	76	99271	0.52 ug/l	100
22) trans-1,2-Dichloroethene	9.06	61	57242	0.54 ug/l	98
30) cis-1,2-Dichloroethene	11.16	96	377948	5.57 ug/l	97
44) Trichloroethene	14.05	130	6656579	94.20 ug/l	99
54) Toluene	16.18	91	84436	0.30 ug/l	98

(#) = qualifier out of range (m) = manual integration

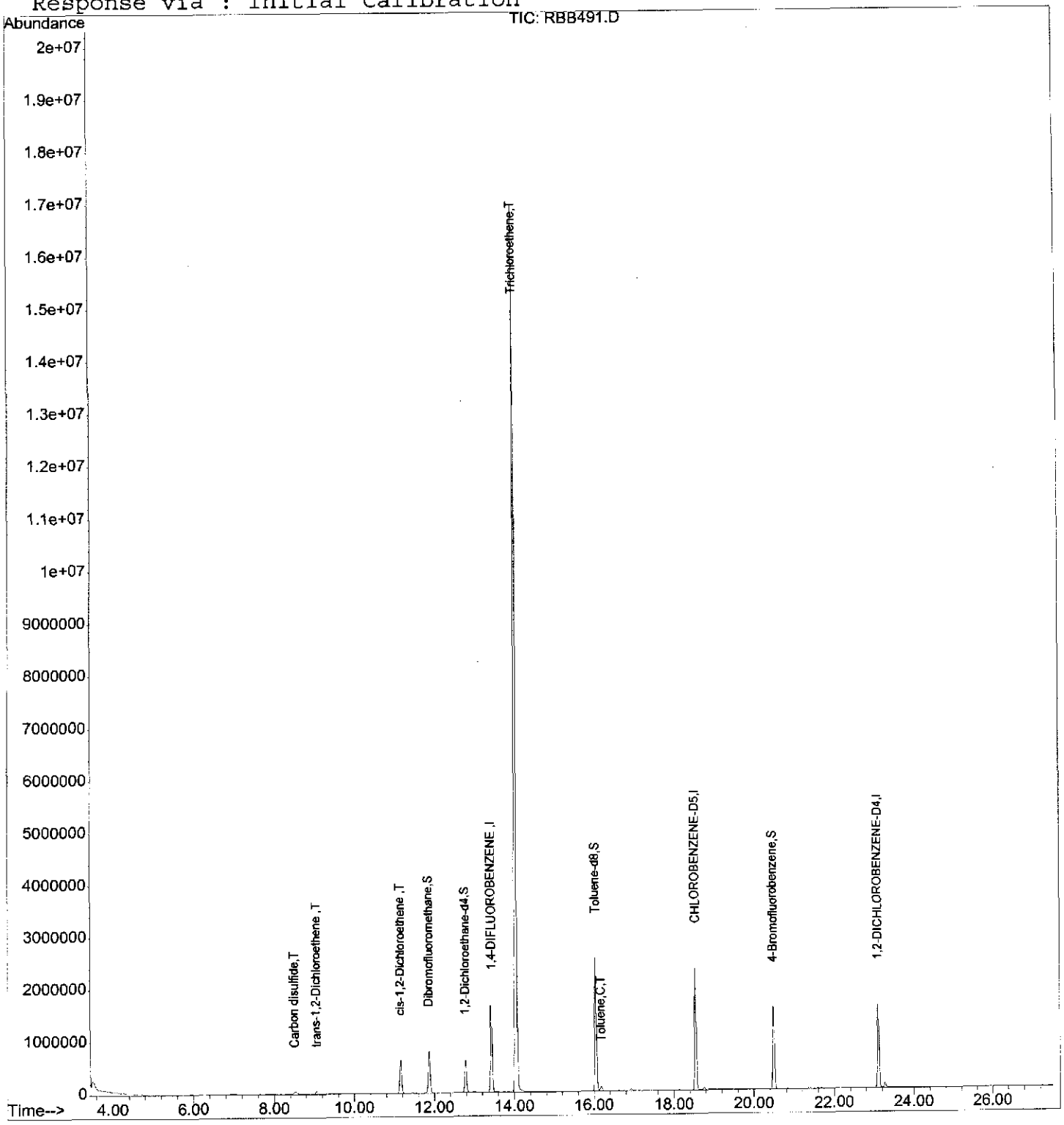
Quantitation Report

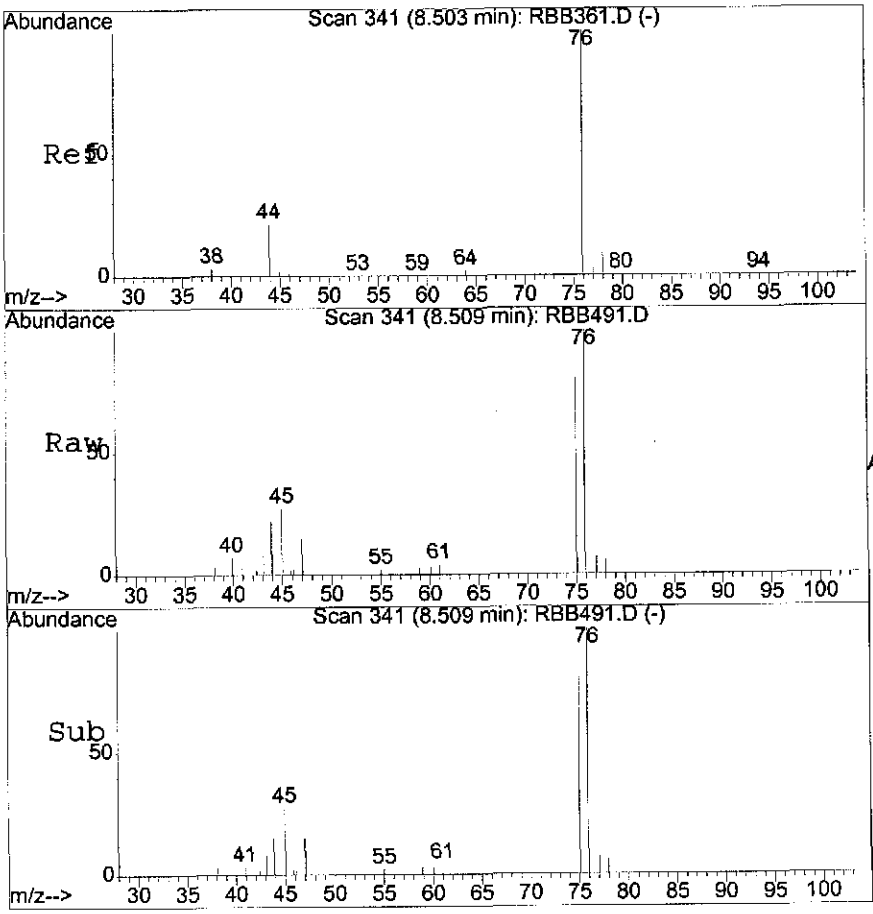
Data File : D:\HPCHEM\1\DATA\11B25\RBB491.D
Acq On : 25 Feb 2011 3:24 pm
Sample : 11B186-05N 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:22 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

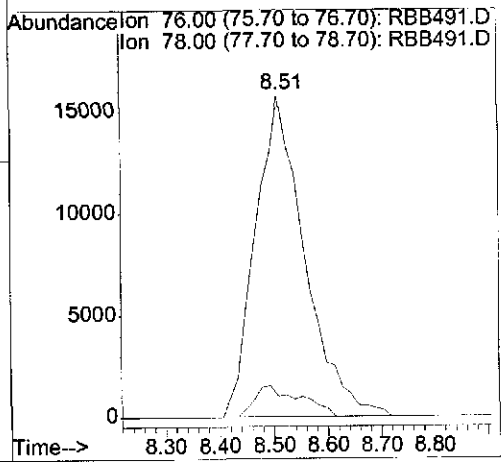


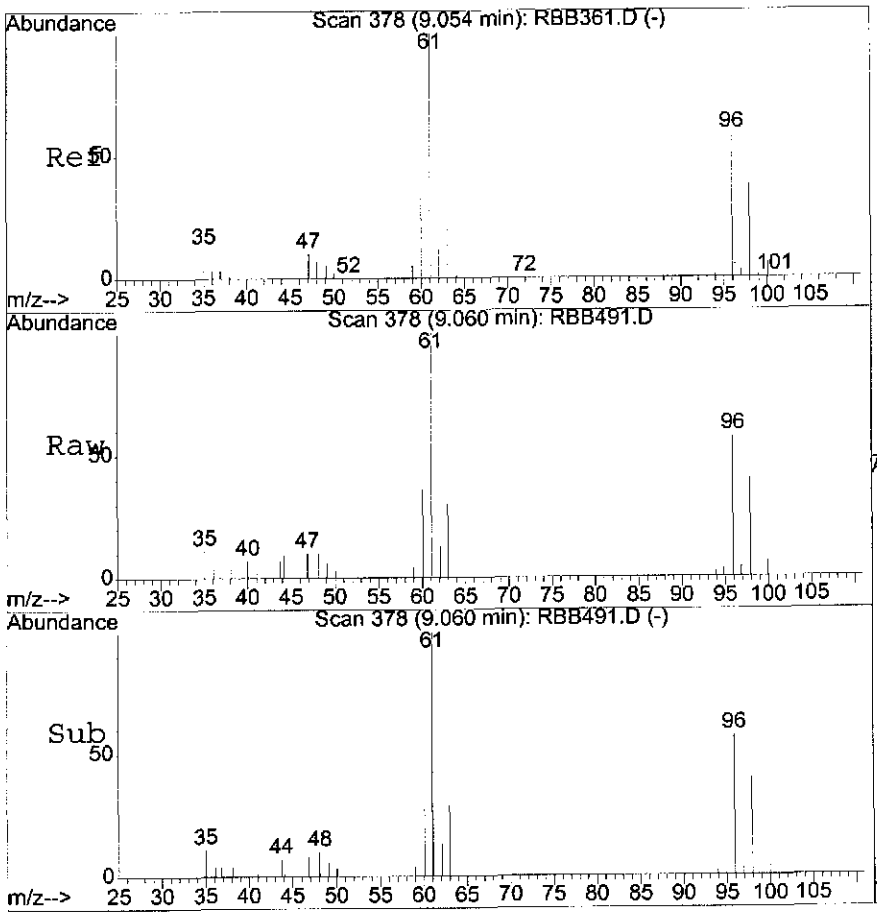


#19
Carbon disulfide
Concen: 0.52 ug/l
RT: 8.51 min Scan# 341
Delta R.T. 0.01 min
Lab File: RBB491.D
Acq: 25 Feb 2011 3:24 pm

Tgt Ion: 76 Resp: 99271

Ion	Ratio	Lower	Upper
76	100		
78	9.0	0.0	38.9

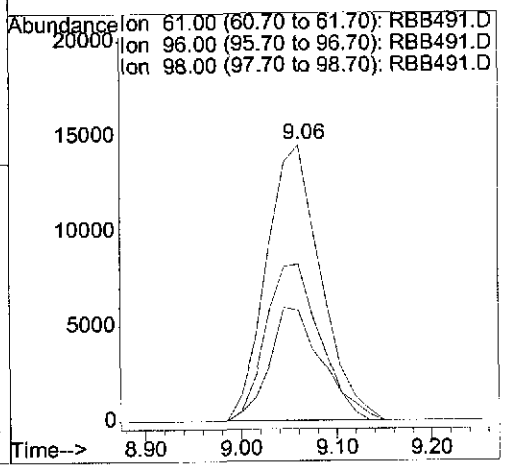


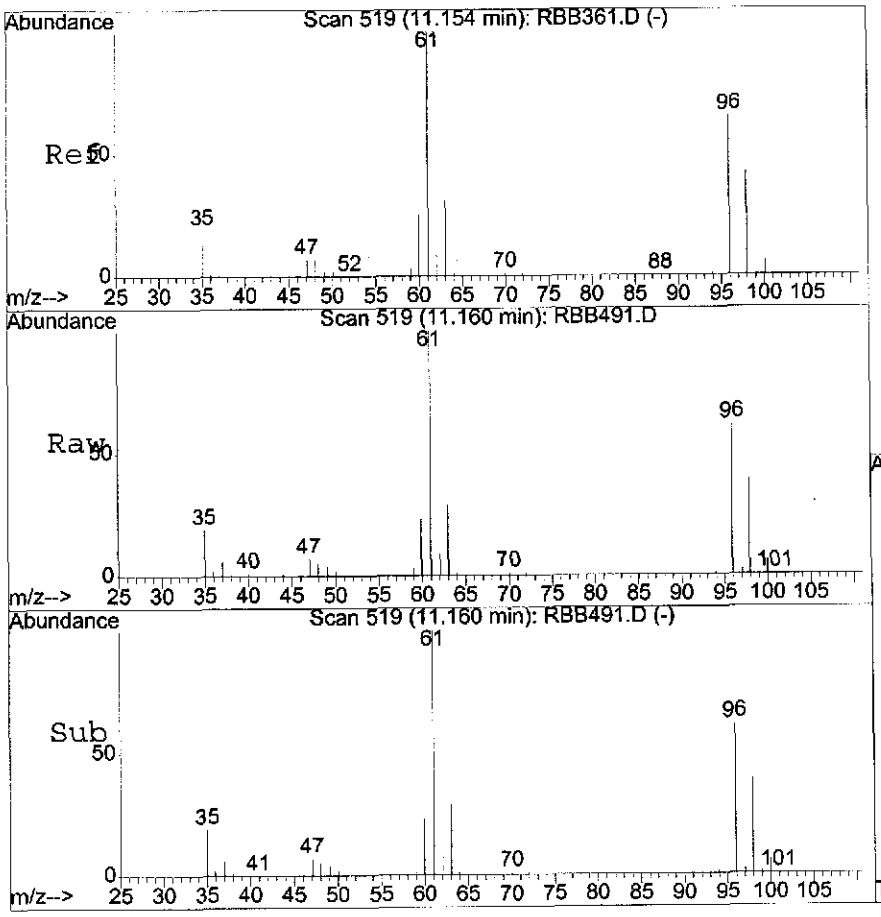


#22
trans-1,2-Dichloroethene
Concen: 0.54 ug/l
RT: 9.06 min Scan# 378
Delta R.T. 0.01 min
Lab File: RBB491.D
Acq: 25 Feb 2011 3:24 pm

Tgt Ion: 61 Resp: 57242

Ion	Ratio	Lower	Upper
61	100		
96	57.4	27.2	87.2
98	38.9	6.4	66.4

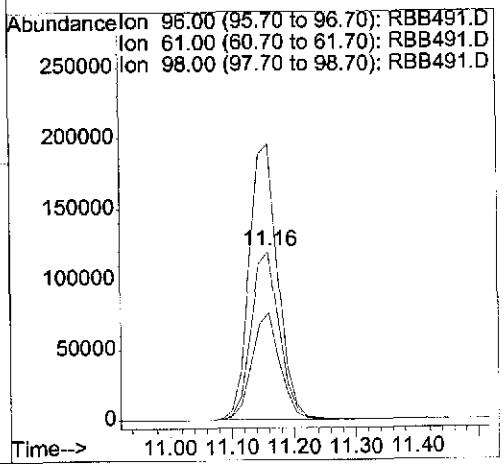


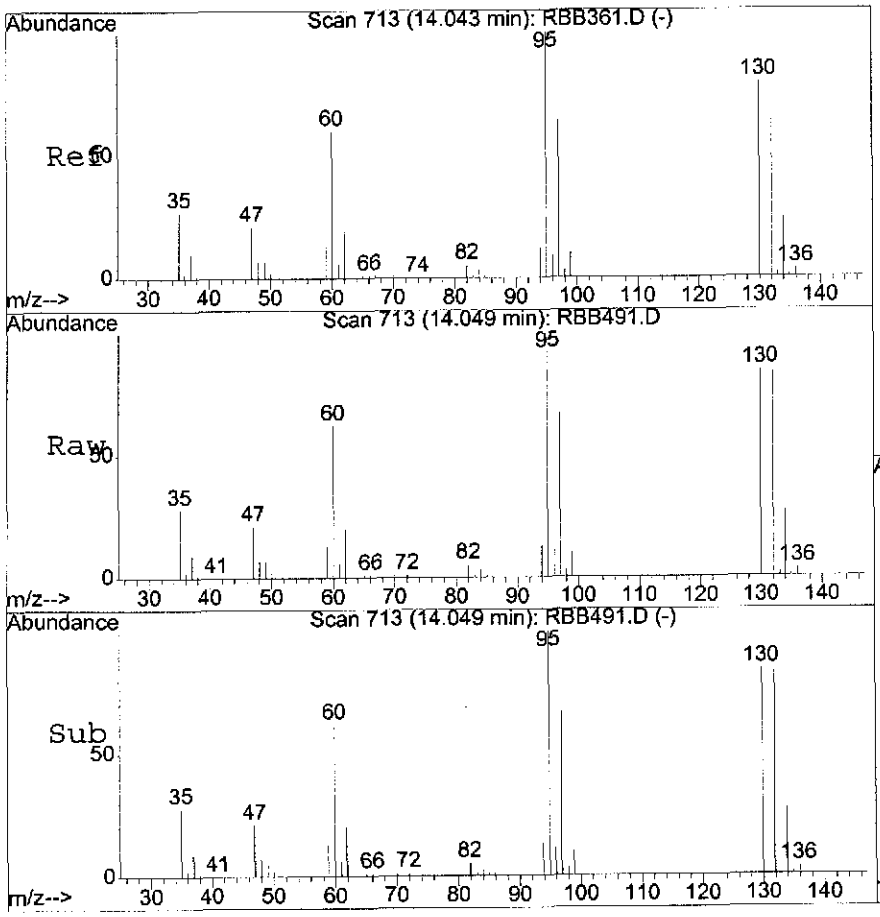


#30
cis-1,2-Dichloroethene
Concen: 5.57 ug/l
RT: 11.16 min Scan# 519
Delta R.T. 0.01 min
Lab File: RBB491.D
Acq: 25 Feb 2011 3:24 pm

Tgt Ion: 96 Resp: 377948

Ion	Ratio	Lower	Upper
96	100		
61	166.8	132.3	192.3
98	62.9	34.0	94.0

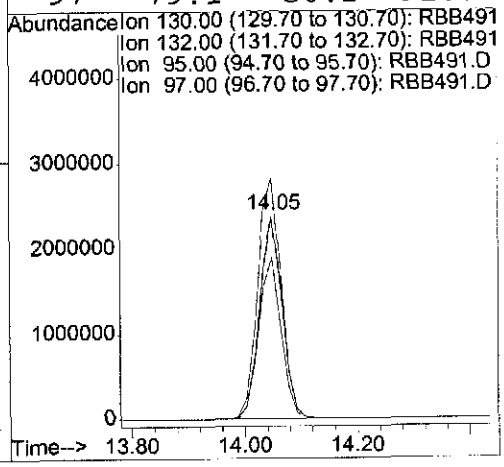


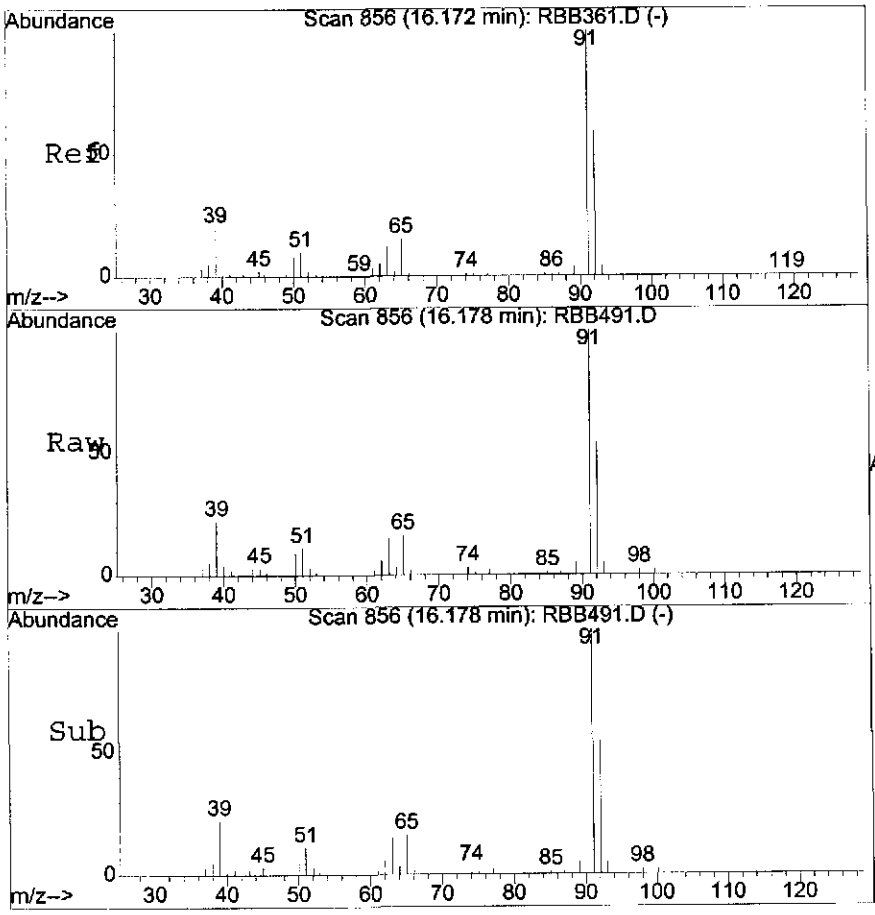


#44
Trichloroethene
Concen: 94.20 ug/l
RT: 14.05 min Scan# 713
Delta R.T. 0.01 min
Lab File: RBB491.D
Acq: 25 Feb 2011 3:24 pm

Tgt Ion:130 Resp: 6656579

Ion	Ratio	Lower	Upper
130	100		
132	97.1	67.3	127.3
95	123.2	93.7	153.7
97	79.1	50.2	110.2

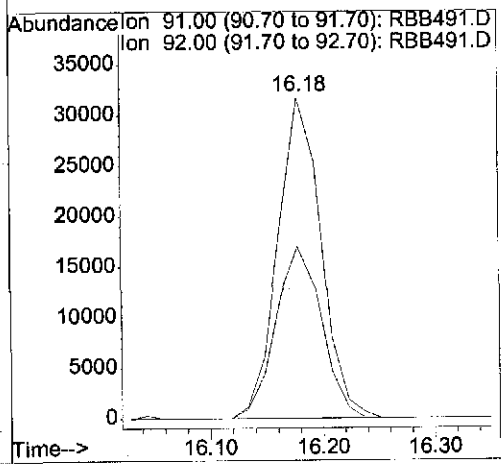




#54
Toluene
Concen: 0.30 ug/l
RT: 16.18 min Scan# 856
Delta R.T. 0.01 min
Lab File: RBB491.D
Acq: 25 Feb 2011 3:24 pm

Tgt Ion: 91 Resp: 84436

Ion	Ratio	Lower	Upper
91	100		
92	56.7	28.3	88.3



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 17:38
Sample ID:	SSI-HP-005	Date Analyzed:	02/22/11 17:38
Lab Samp ID:	B186-06	Dilution Factor:	1
Lab File ID:	RBV587	Matrix	: WATER
Ext Btch ID:	V001B28	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.46J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	6.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.55J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.69J	1.0	0.20
TRICHLOROETHENE	110E	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.81	10.00	98.1	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	10.6	10.00	106	85-120
DIBROMOFLUOROMETHANE	9.57	10.00	95.7	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV587.D
Acq On : 22 Feb 2011 5:38 pm
Sample : 11B186-06 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:17 2011

Vial: 22
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1319588	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1133856	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	384170	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	378431	9.57	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.70%	
40) 1,2-Dichloroethane-d4	8.20	65	303270	9.81	ug/l	0.00
Spiked Amount 10.000			Recovery	=	98.10%	
55) Toluene-d8	11.29	98	1562903	10.58	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.80%	
76) 4-Bromofluorobenzene	16.29	95	466777	10.71	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	107.10%	
Target Compounds						Qvalue
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	6746	0.32	ug/l	98
13) Acetone	4.23	43	32889	6.32	ug/l #	45
20) Carbon disulfide	5.06	76	49813	0.46	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	46835	0.69	ug/l	97
31) cis-1,2-Dichloroethene	6.90	96	330905	6.77	ug/l	90
46) Trichloroethene	9.32	130	4939483	105.53	ug/l	98
56) Toluene	11.44	91	99400	0.55	ug/l	99
69) m-Xylene & p-Xylene	14.31	91	55404	0.37	ug/l	97

(#) = qualifier out of range (m) = manual integration

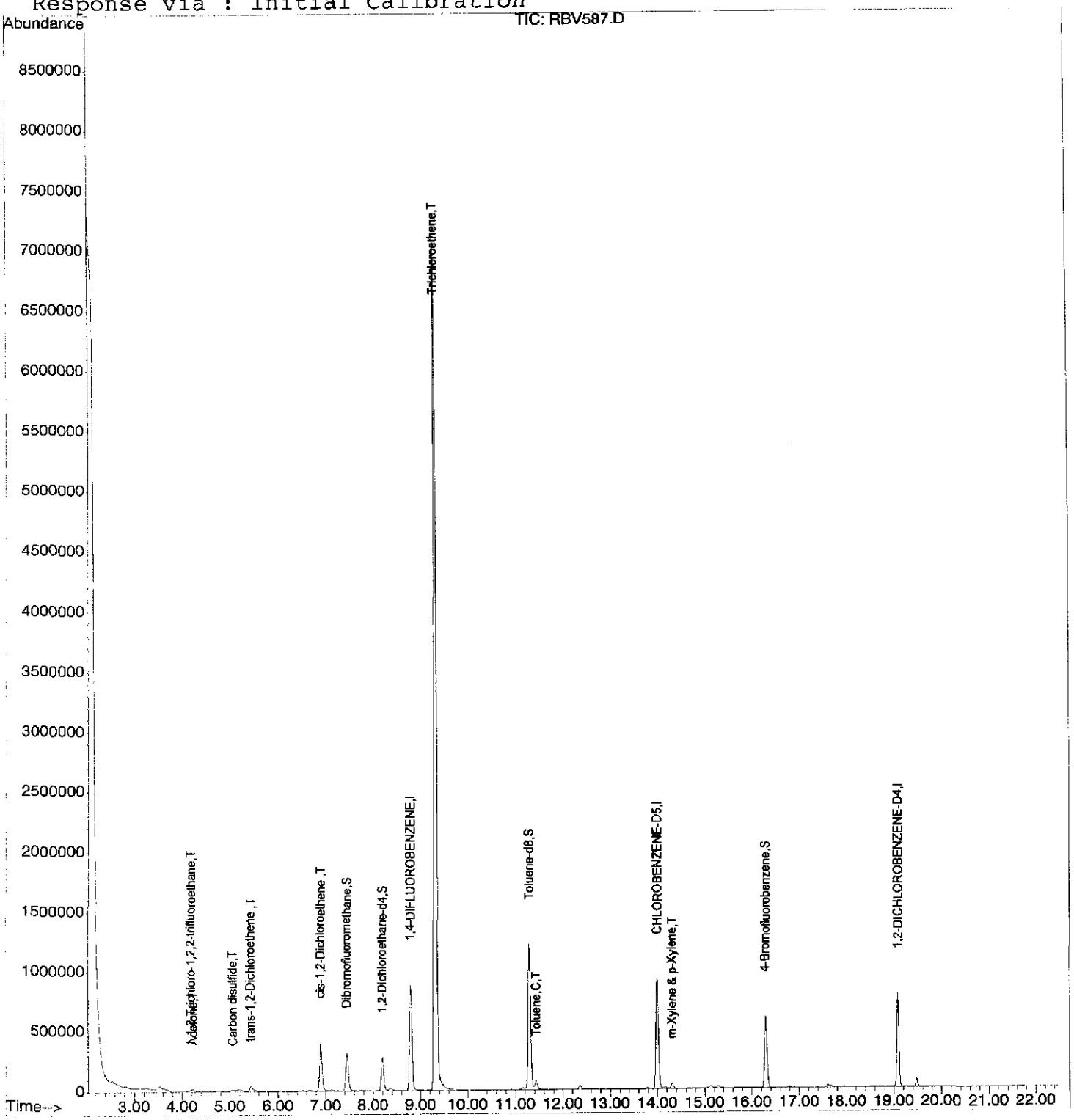
Quantitation Report

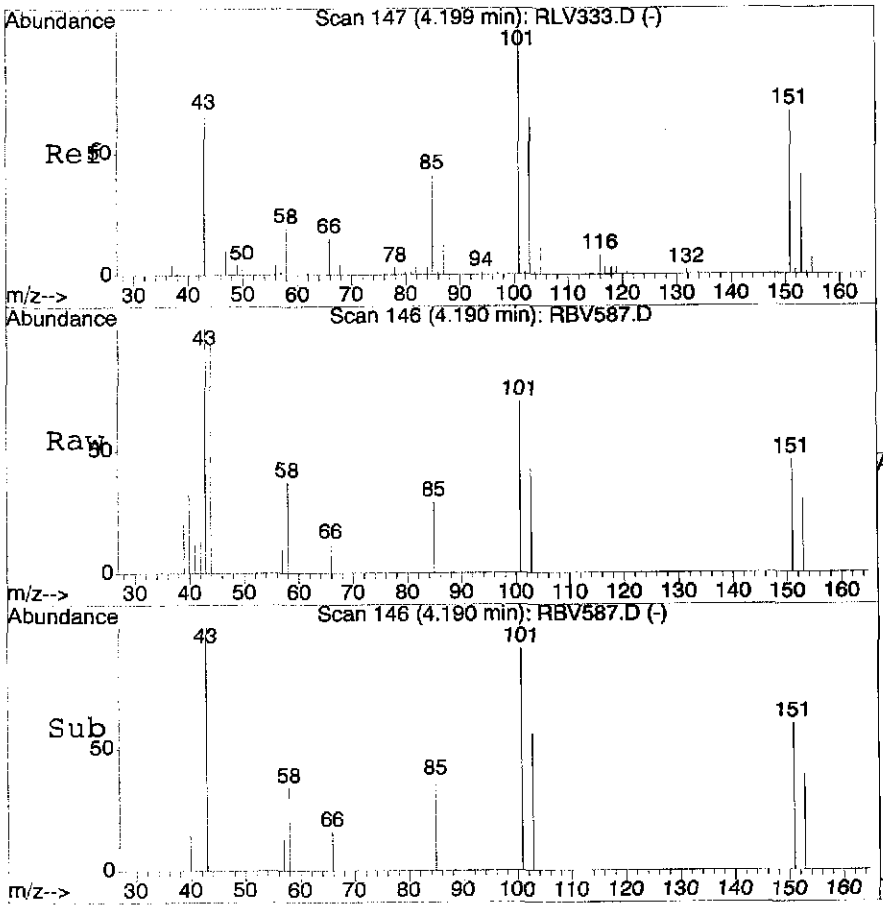
Data File : D:\HPCHEM\1\DATA\11B22\RBV587.D
Acq On : 22 Feb 2011 5:38 pm
Sample : 11B186-06 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:17 2011

Vial: 22
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

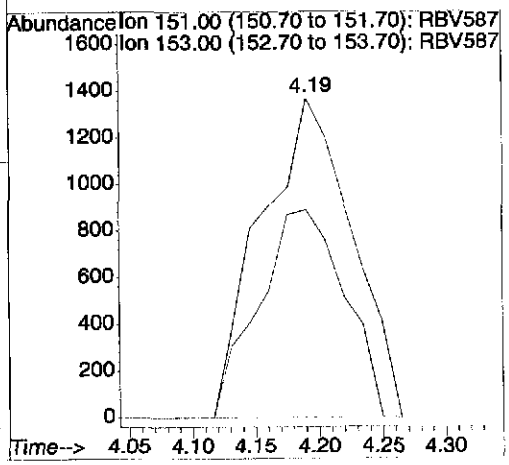


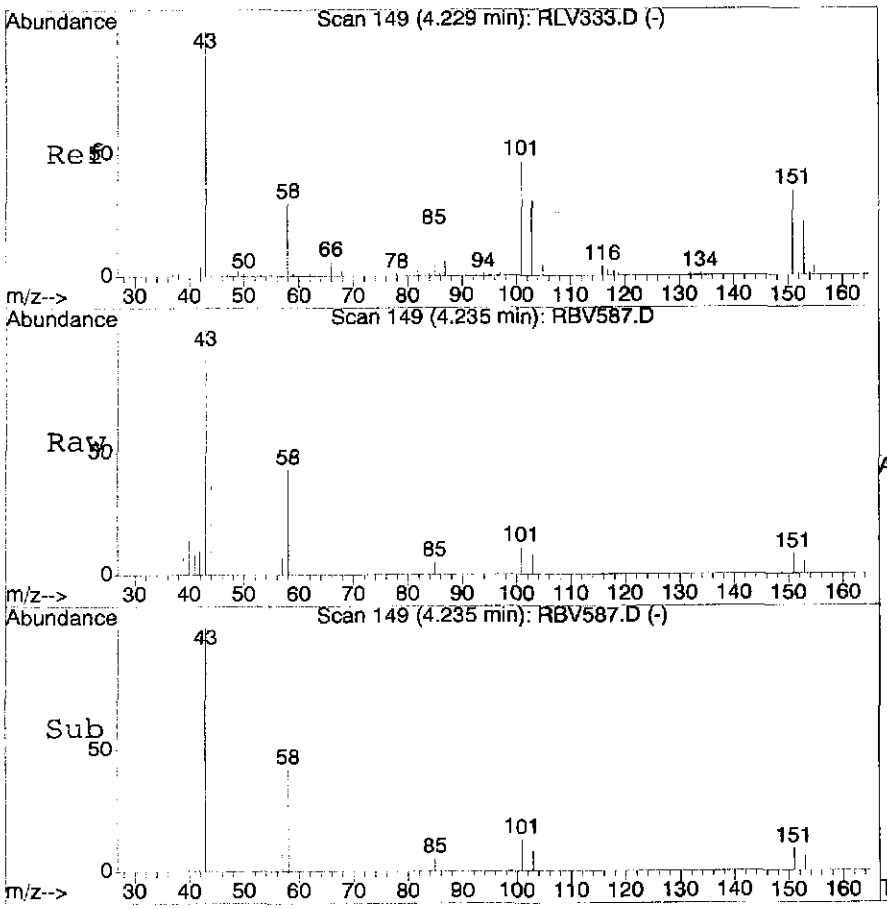


#12
1,1,2-Trichloro-1,2,2-trifluo
Concen: 0.32 ug/l
RT: 4.19 min Scan# 146
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion:151 Resp: 6746

Ion	Ratio	Lower	Upper
151	100		
153	61.5	33.2	93.2

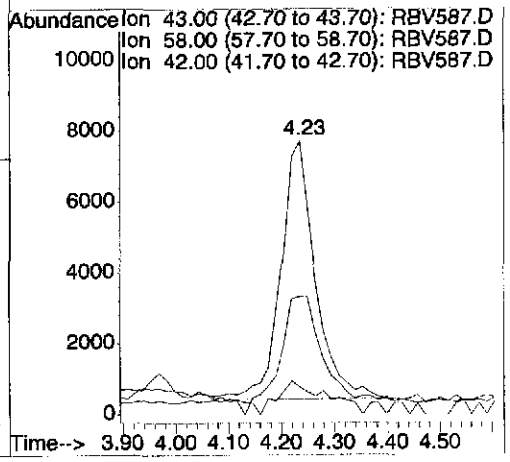


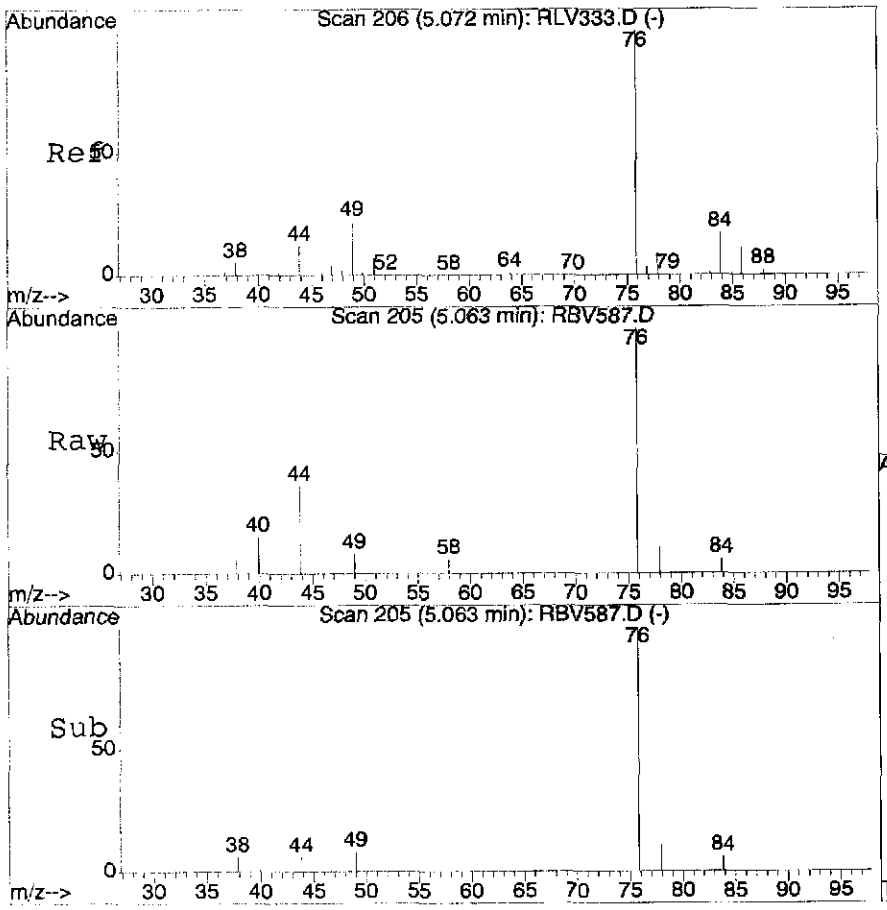


#13
Acetone
Concen: 6.32 ug/l
RT: 4.23 min Scan# 149
Delta R.T. 0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 43 Resp: 32889

Ion	Ratio	Lower	Upper
43	100		
58	64.8	1.4	61.4#
42	17.9	0.0	37.2

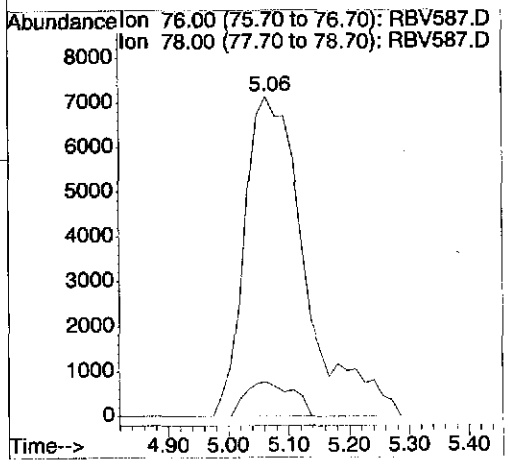


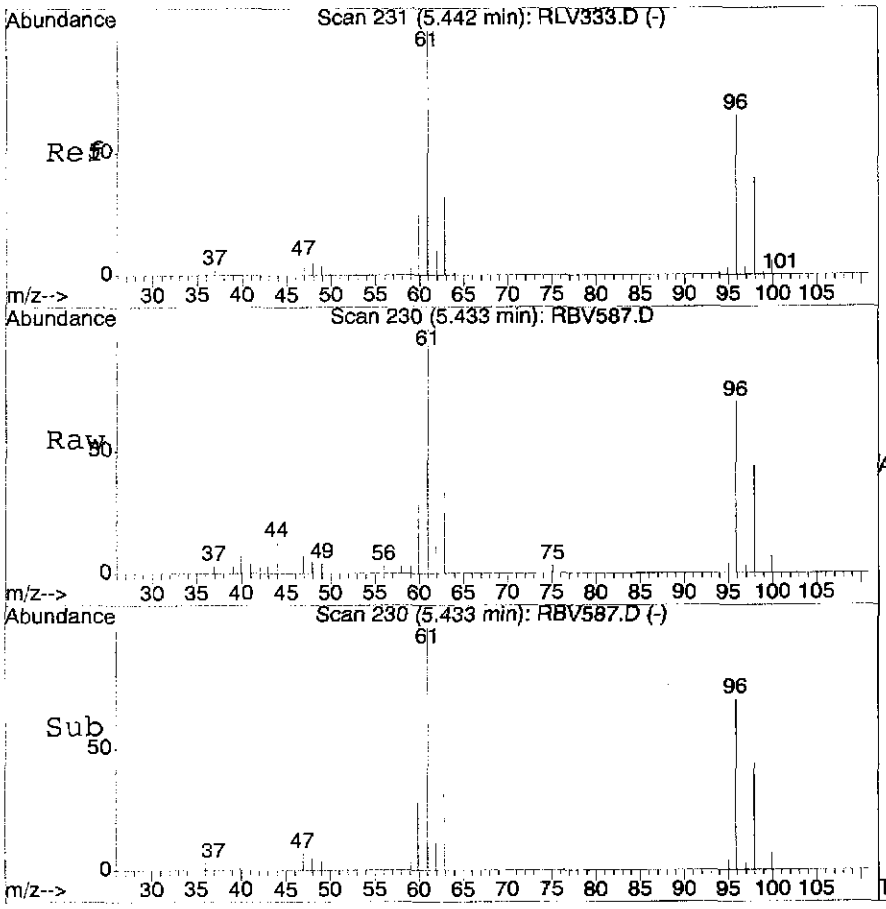


#20
Carbon disulfide
Concen: 0.46 ug/l
RT: 5.06 min Scan# 205
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 76 Resp: 49813

Ion	Ratio	Lower	Upper
76	100		
78	8.4	0.0	38.9

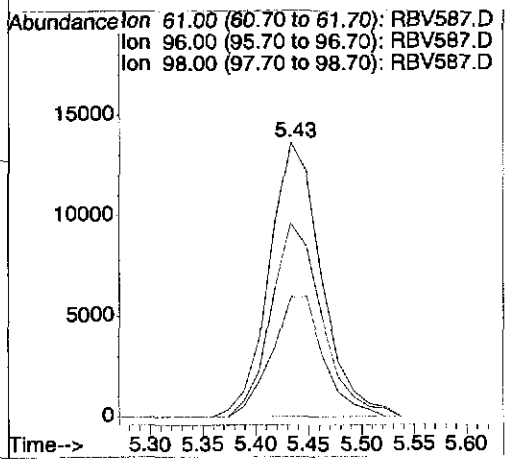


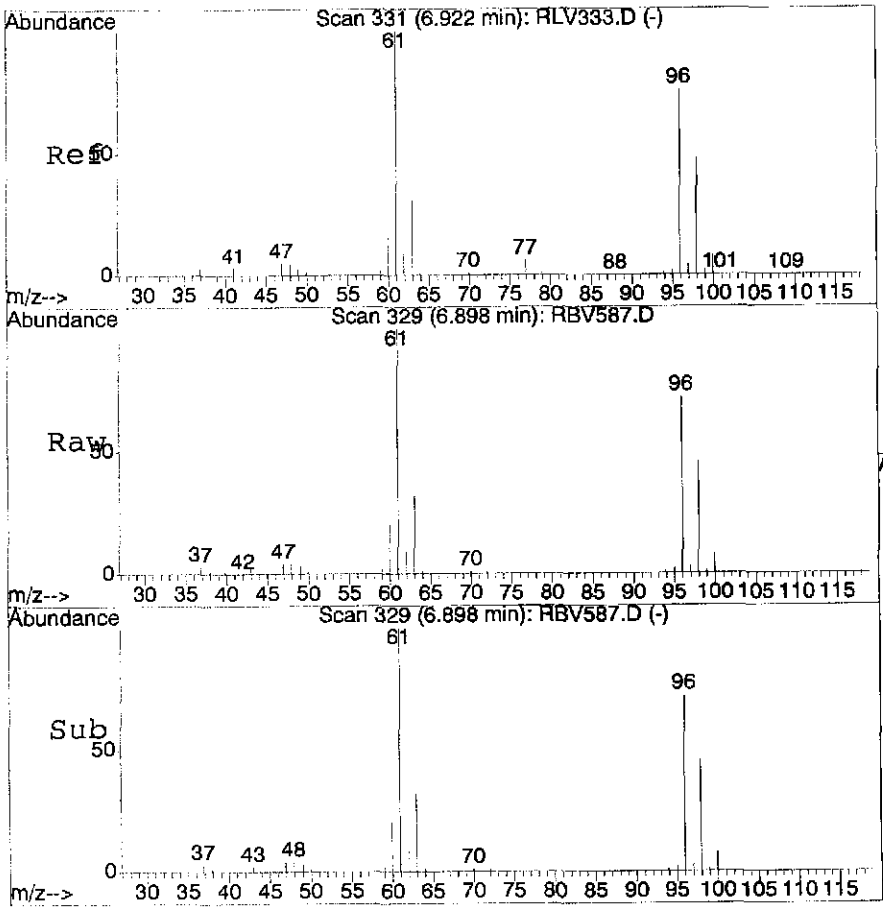


#23
trans-1,2-Dichloroethene
Concen: 0.69 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 61 Resp: 46835

Ion	Ratio	Lower	Upper
61	100		
96	68.9	36.0	96.0
98	43.5	11.6	71.6

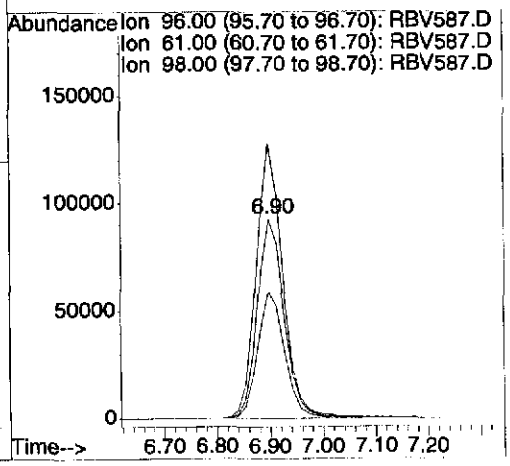


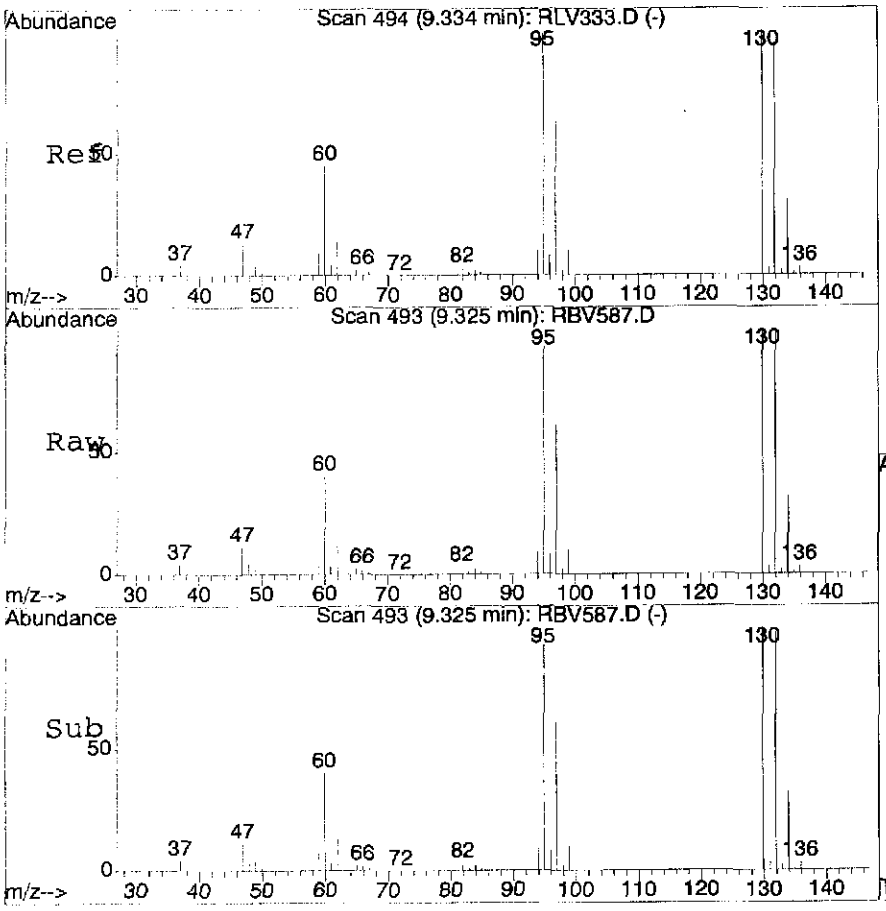


#31
cis-1,2-Dichloroethene
Concen: 6.77 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.02 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 96 Resp: 330905

Ion	Ratio	Lower	Upper
96	100		
61	135.3	123.3	183.3
98	63.7	33.4	93.4

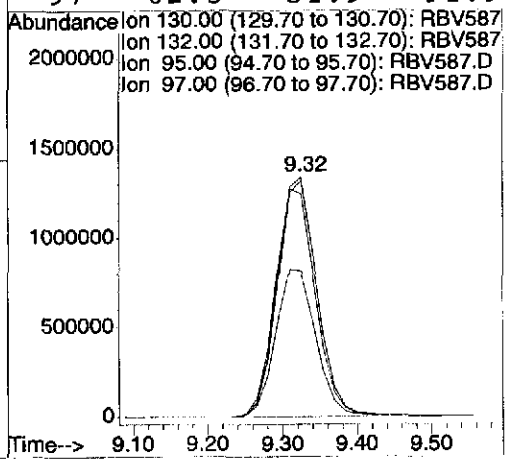


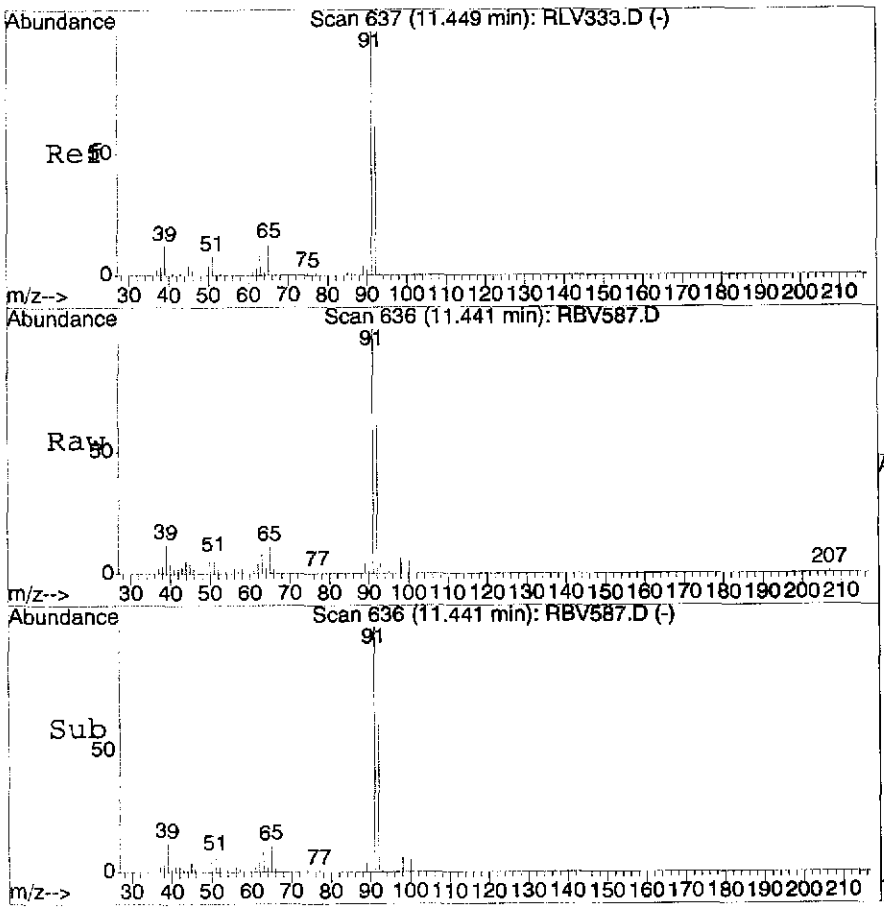


#46
Trichloroethene
Concen: 105.53 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion:130 Resp: 4939483

Ion	Ratio	Lower	Upper
130	100		
132	97.9	64.2	124.2
95	96.3	67.2	127.2
97	62.3	31.9	91.9

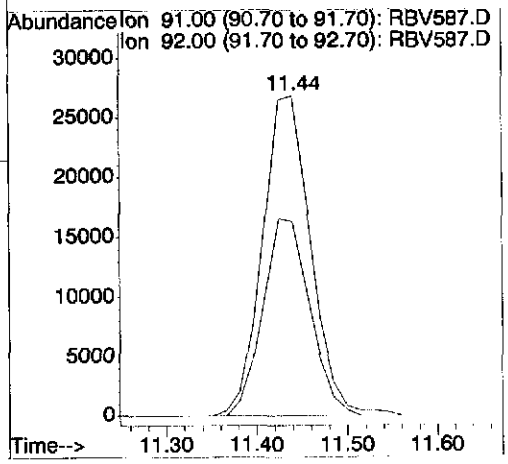


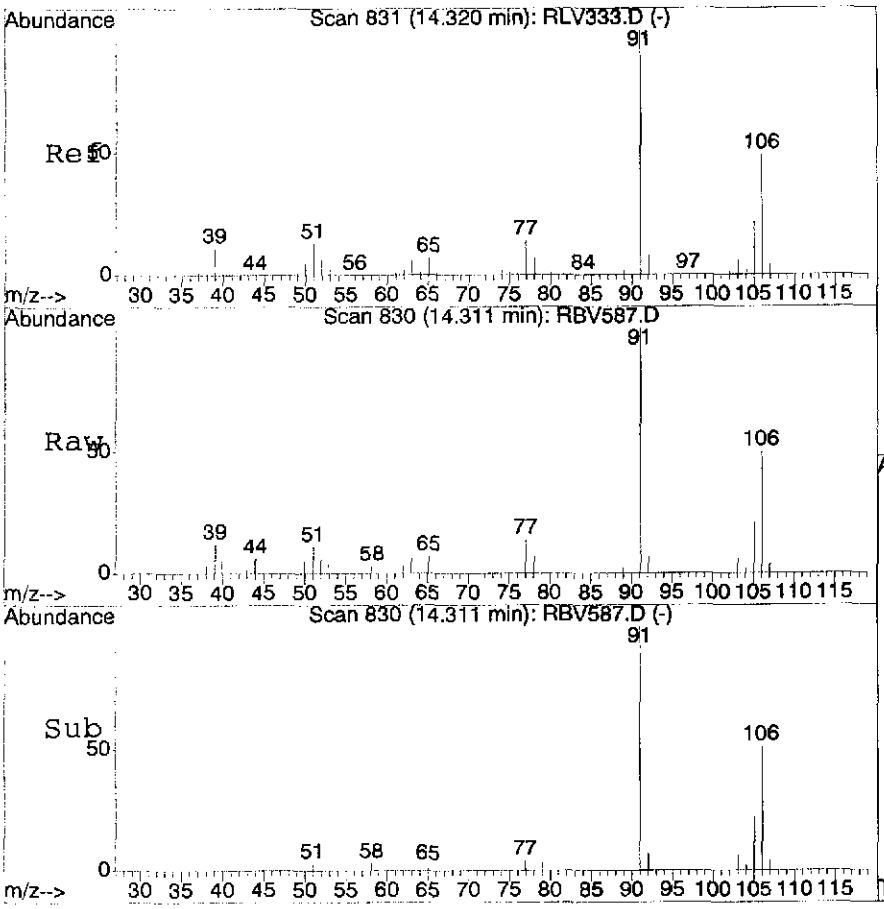


#56
Toluene
Concen: 0.55 ug/l
RT: 11.44 min Scan# 636
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 91 Resp: 99400

Ion	Ratio	Lower	Upper
91	100		
92	60.2	31.0	91.0

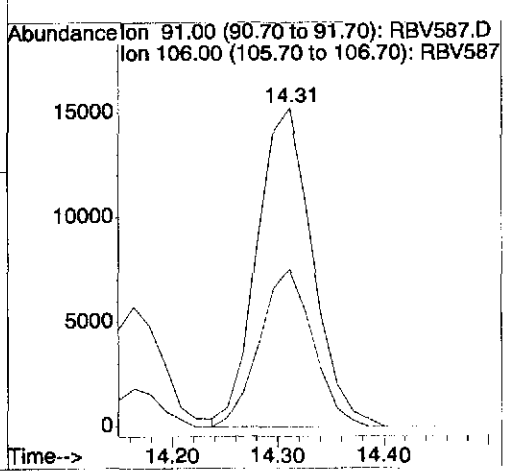




#69
m-Xylene & p-Xylene
Concen: 0.37 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV587.D
Acq: 22 Feb 2011 5:38 pm

Tgt Ion: 91 Resp: 55404

Ion	Ratio	Lower	Upper
91	100		
106	47.6	19.5	79.5



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/25/11 18:24
Sample ID:	SSI-HP-005DL	Date Analyzed:	02/25/11 18:24
Lab Samp ID:	B186-06T	Dilution Factor:	10
Lab File ID:	RBB496	Matrix :	WATER
Ext Btch ID:	V003B29	% Moisture :	NA
Calib. Ref.:	RBB361	Instrument ID :	T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	10	2.0
1,1,2,2-TETRACHLOROETHANE	ND	10	2.0
1,1,2-TRICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHANE	ND	10	2.0
1,1-DICHLOROETHENE	ND	10	2.0
1,2-DICHLOROETHANE	ND	10	2.0
2-BUTANONE	ND	100	40
2-HEXANONE	ND	100	40
4-METHYL-2-PENTANONE	ND	100	40
BENZENE	ND	10	2.0
BROMODICHLOROMETHANE	ND	10	2.0
BROMOFORM	ND	10	3.0
CARBON DISULFIDE	ND	10	2.0
CARBON TETRACHLORIDE	ND	10	2.0
CHLOROBENZENE	ND	10	2.0
CHLOROETHANE	ND	10	3.0
CHLOROFORM	ND	10	2.0
CHLOROMETHANE	ND	10	3.0
CIS-1,2-DICHLOROETHENE	6.0J	10	2.0
DIBROMOCHLOROMETHANE	ND	10	2.0
ETHYLBENZENE	ND	10	2.0
M/P-XYLENES	ND	20	4.0
METHYLENE CHLORIDE	ND	10	5.0
METHYL TERT-BUTYL ETHER	ND	10	2.0
O-XYLENE	ND	10	2.0
TETRACHLOROETHENE	ND	10	2.0
TOLUENE	ND	10	2.0
TRANS-1,2-DICHLOROETHENE	ND	10	2.0
TRICHLOROETHENE	110	10	2.0
VINYL CHLORIDE	ND	10	2.0
1,2,4-TRIMETHYLBENZENE	ND	10	2.0
1,3,5-TRIMETHYLBENZENE	ND	10	2.0
DICHLORODIFLUOROMETHANE	ND	10	3.0
ISOPROPYLBENZENE	ND	10	2.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	102	100.0	102	70-120
4-BROMOFLUOROBENZENE	96.9	100.0	96.9	75-120
TOLUENE-D8	97.3	100.0	97.3	85-120
DIBROMOFLUOROMETHANE	97.8	100.0	97.8	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB496.D
Acq On : 25 Feb 2011 6:24 pm
Sample : 11B186-06T 2.5mL
Misc : DF=10
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:23 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1525572	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	18.56	117	1384246	10.00	ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	518343	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	11.87	111	640608	9.78	ug/l	0.00
Spiked Amount 10.000			Recovery =	97.80%		
38) 1,2-Dichloroethane-d4	12.78	65	656747	10.24	ug/l	0.00
Spiked Amount 10.000			Recovery =	102.40%		
53) Toluene-d8	16.06	98	2041423	9.73	ug/l	0.00
Spiked Amount 10.000			Recovery =	97.30%		
74) 4-Bromofluorobenzene	20.49	95	772262	9.69	ug/l	0.00
Spiked Amount 10.000			Recovery =	96.90%		
Target Compounds						Qvalue
30) cis-1,2-Dichloroethene	11.16	96	35782	0.60	ug/l	99
44) Trichloroethene	14.04	130	633941	10.51	ug/l	99

(#) = qualifier out of range (m) = manual integration

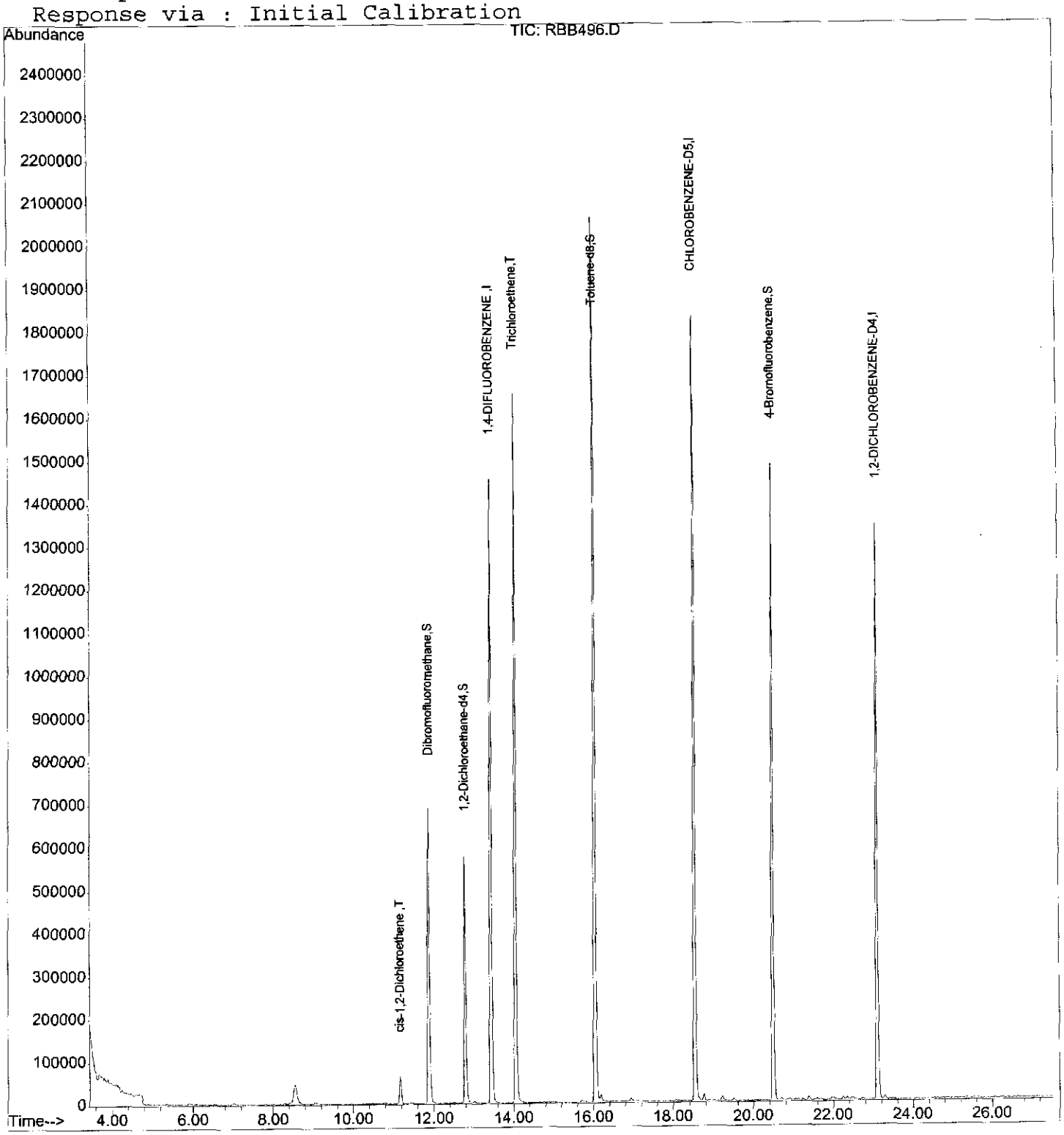
Quantitation Report

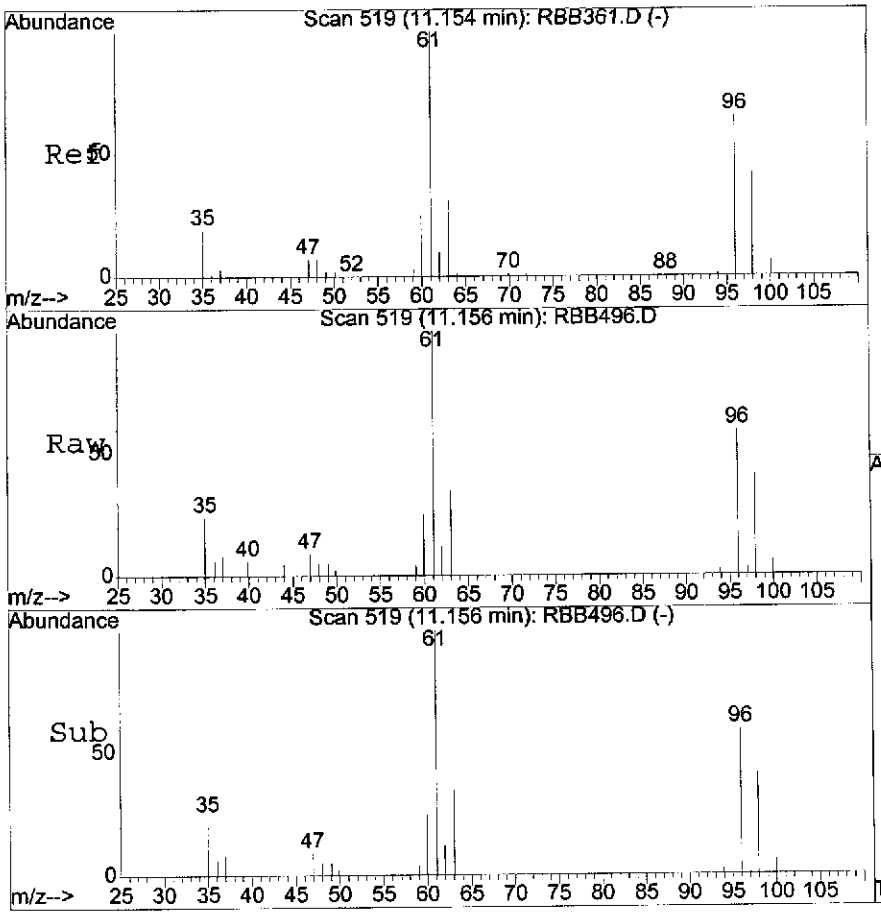
Data File : D:\HPCHEM\1\DATA\11B25\RBB496.D
Acq On : 25 Feb 2011 6:24 pm
Sample : 11B186-06T 2.5mL
Misc : DF=10
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:23 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

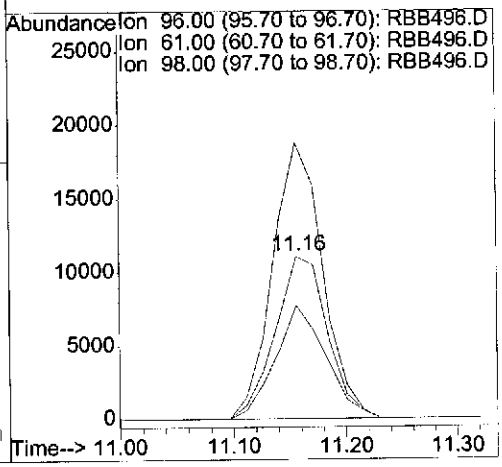


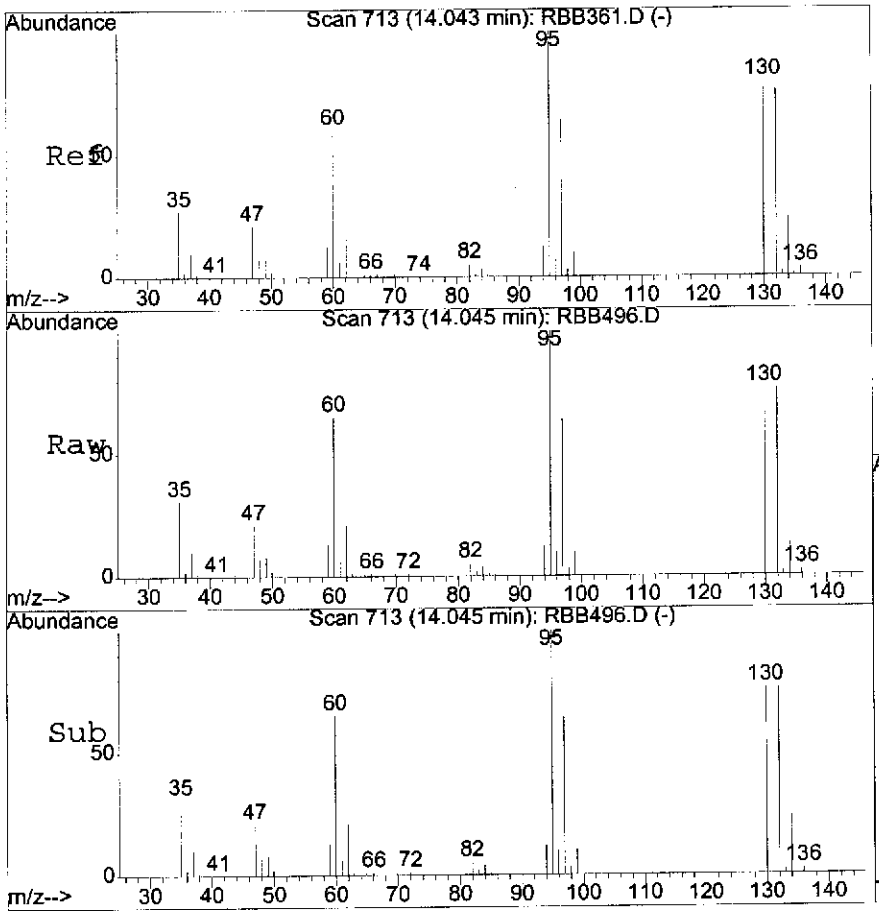


#30
cis-1,2-Dichloroethene
Concen: 0.60 ug/l
RT: 11.16 min Scan# 519
Delta R.T. 0.00 min
Lab File: RBB496.D
Acq: 25 Feb 2011 6:24 pm

Tgt Ion: 96 Resp: 35782

Ion	Ratio	Lower	Upper
96	100		
61	162.2	132.3	192.3
98	67.5	34.0	94.0

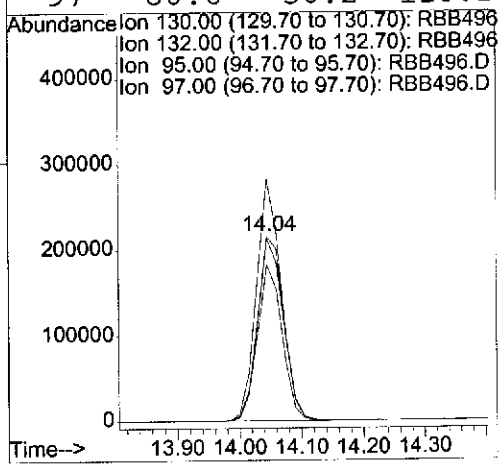




#44
Trichloroethene
Concen: 10.51 ug/l
RT: 14.04 min Scan# 713
Delta R.T. 0.00 min
Lab File: RBB496.D
Acq: 25 Feb 2011 6:24 pm

Tgt Ion:130 Resp: 633941

Ion	Ratio	Lower	Upper
130	100		
132	96.1	67.3	127.3
95	123.9	93.7	153.7
97	80.6	50.2	110.2



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/15/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 13:21
Sample ID:	SSI-HP-006	Date Analyzed:	02/22/11 13:21
Lab Samp ID:	B186-07	Dilution Factor:	1
Lab File ID:	RBV579	Matrix :	WATER
Ext Btch ID:	VO01B28	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.33J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLORODETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	3.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.26J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.46J	1.0	0.20
TRICHLOROETHENE	99	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.77	10.00	97.7	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.50	10.00	95.0	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV579.D
Acq On : 22 Feb 2011 1:21 pm
Sample : 11B186-07 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:11 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1371200	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1212290	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	417835	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	390405	9.50	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.00%	
40) 1,2-Dichloroethane-d4	8.20	65	314081	9.77	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.70%	
55) Toluene-d8	11.29	98	1634269	10.35	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	103.50%	
76) 4-Bromofluorobenzene	16.29	95	499889	10.55	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.50%	
Target Compounds						Qvalue
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	6934	0.32	ug/l	89
13) Acetone	4.23	43	25773	4.76	ug/l #	22
20) Carbon disulfide	5.08	76	30362	0.33	ug/l	97
23) trans-1,2-Dichloroethene	5.43	61	32462	0.46	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	192313	3.79	ug/l	90
46) Trichloroethene	9.32	130	4930147	98.52	ug/l	98
56) Toluene	11.42	91	49668	0.26	ug/l	100
69) m-Xylene & p-Xylene	14.31	91	39295	0.24	ug/l	94

(#) = qualifier out of range (m) = manual integration

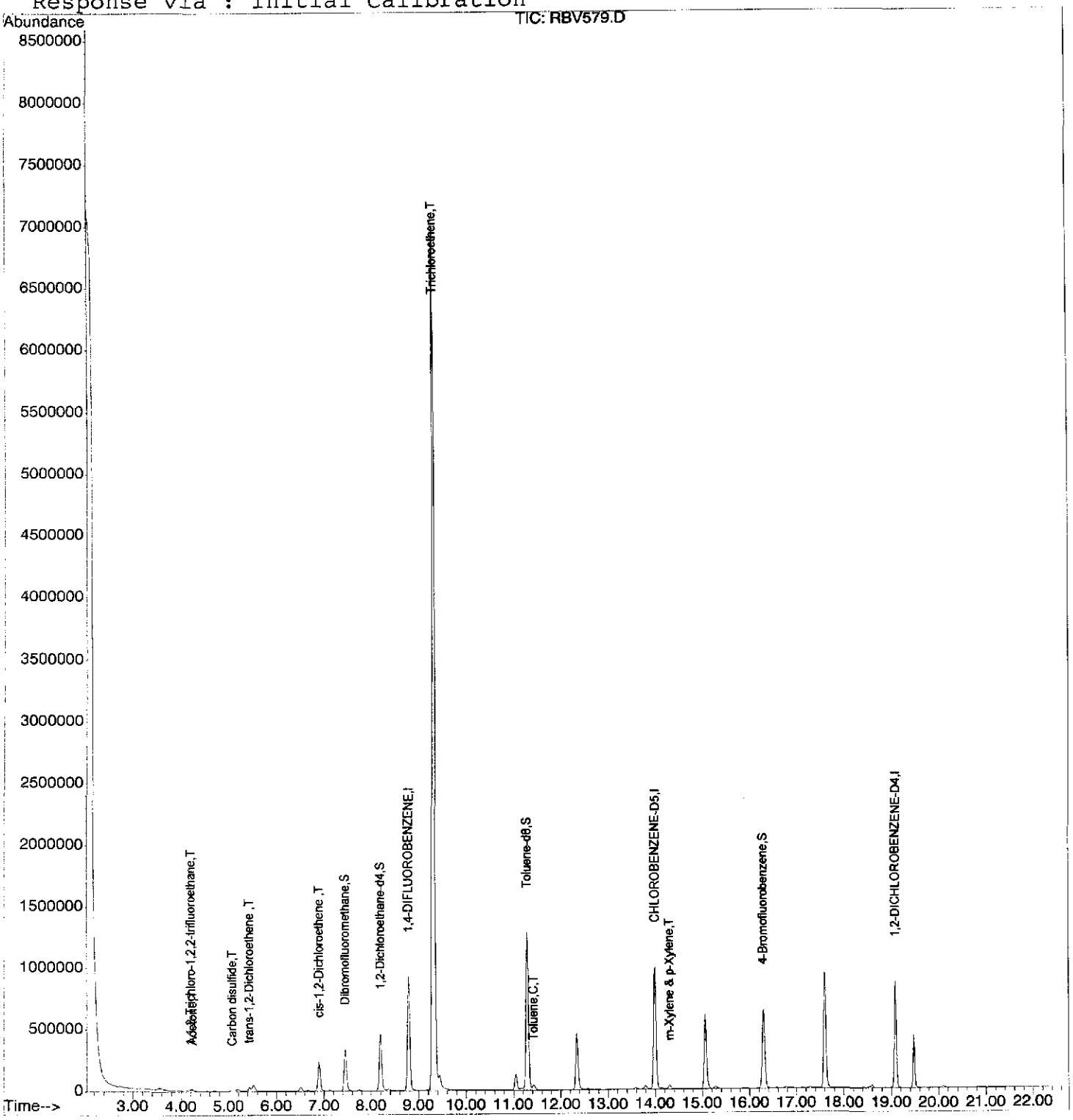
Quantitation Report

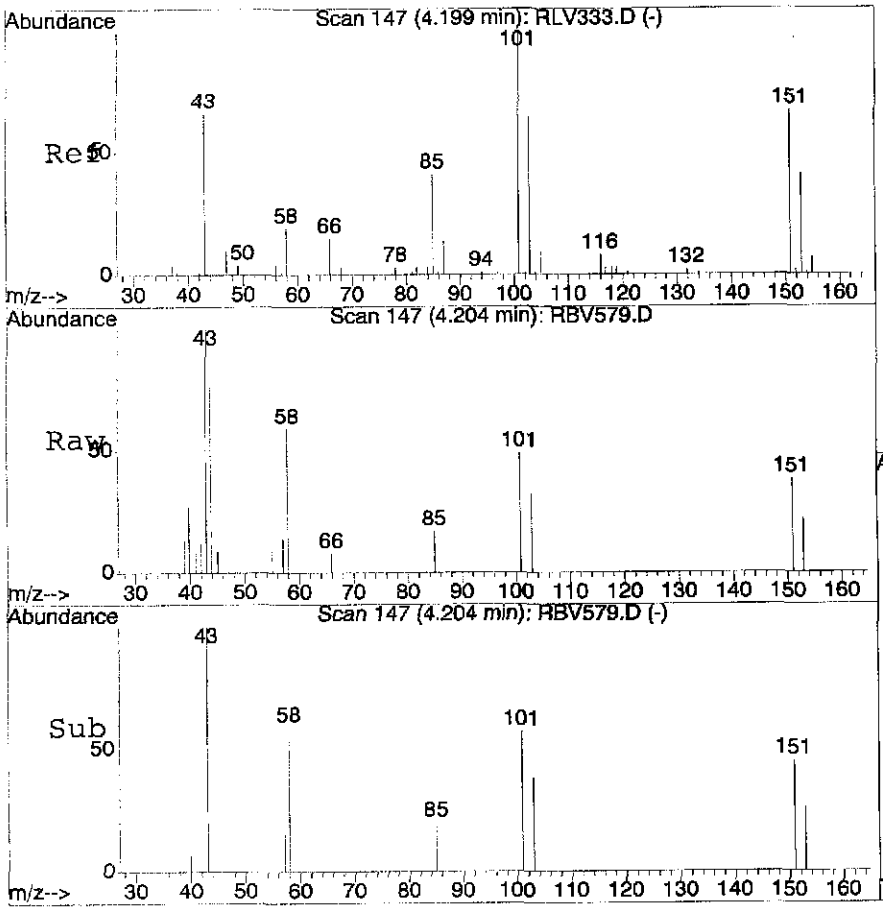
Data File : D:\HPCHEM\1\DATA\11B22\RBV579.D
Acq On : 22 Feb 2011 1:21 pm
Sample : 11B186-07 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:11 2011

Vial: 14
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

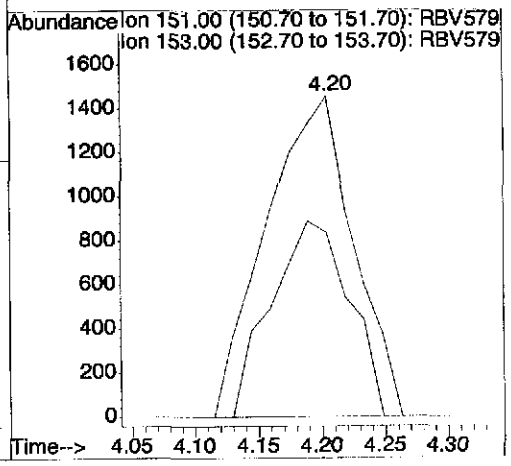


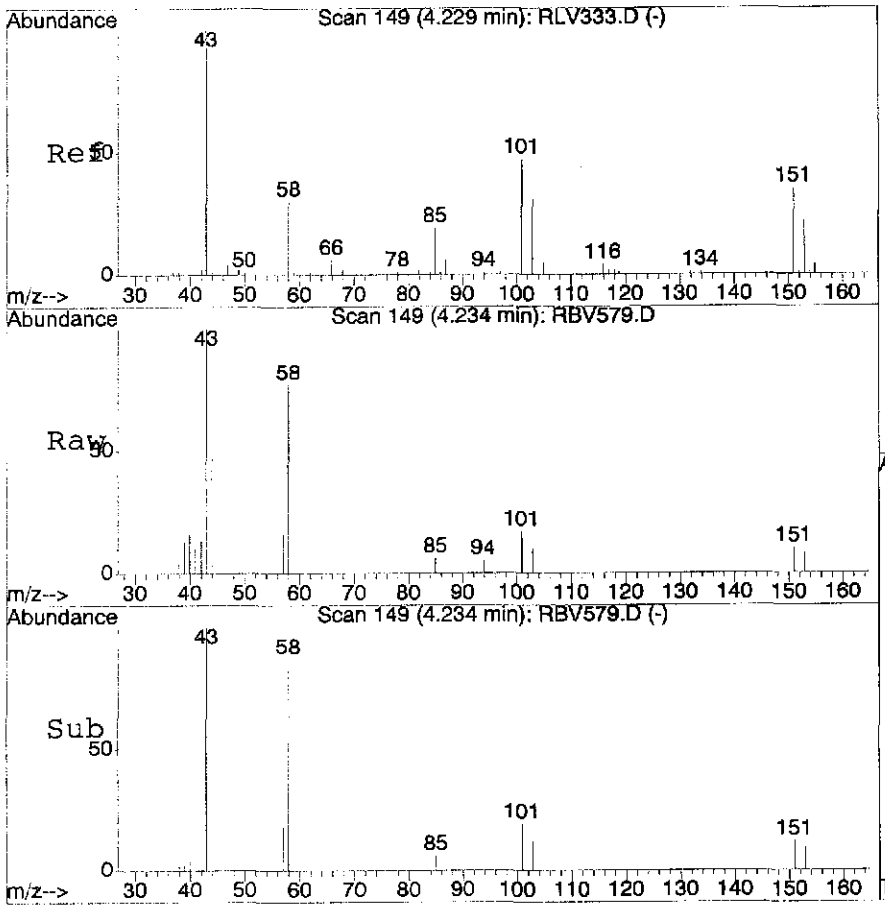


#12
1,1,2-Trichloro-1,2,2-trifluo
Concen: 0.32 ug/l
RT: 4.20 min Scan# 147
Delta R.T. 0.00 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion:151 Resp: 6934

Ion	Ratio	Lower	Upper
151	100		
153	54.7	33.2	93.2

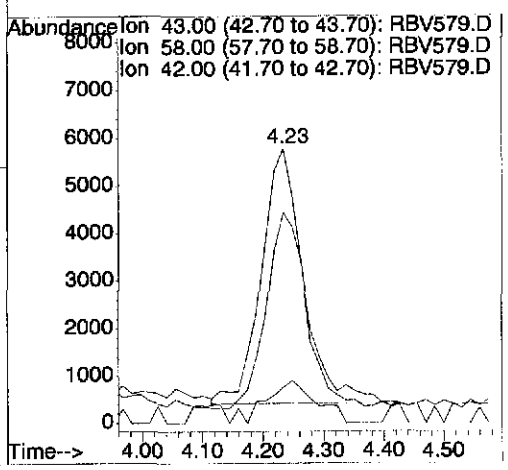


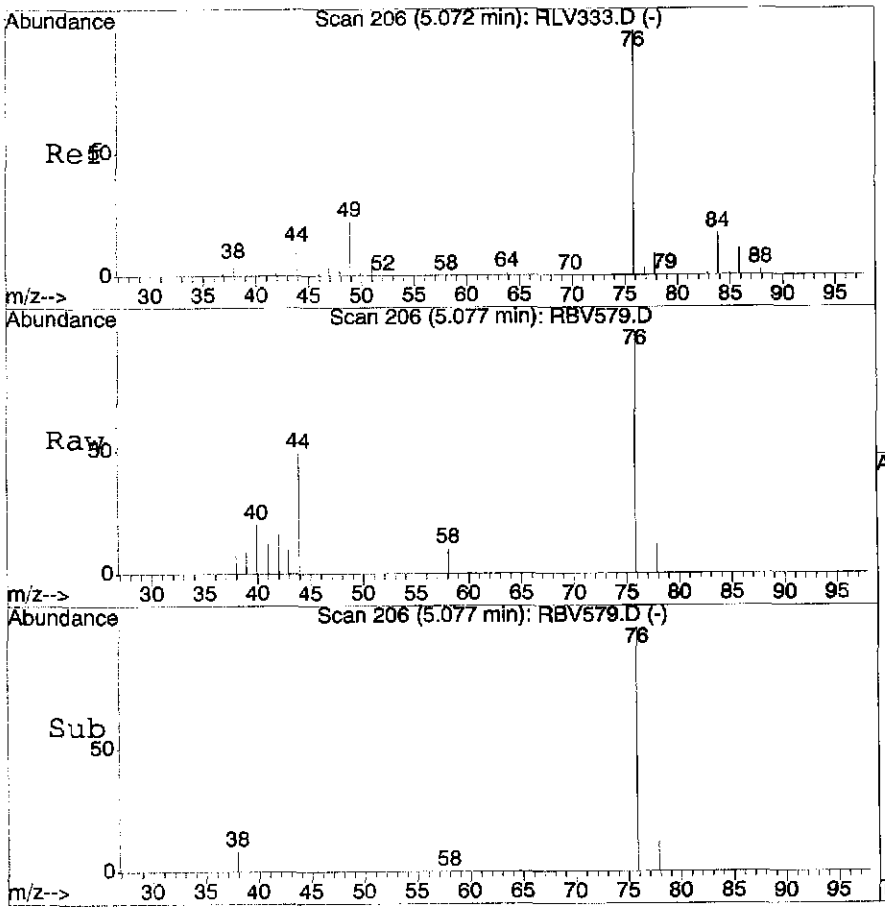


#13
Acetone
Concen: 4.76 ug/l
RT: 4.23 min Scan# 149
Delta R.T. 0.01 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 43 Resp: 25773

Ion	Ratio	Lower	Upper
43	100		
58	79.9	1.4	61.4#
42	20.1	0.0	37.2

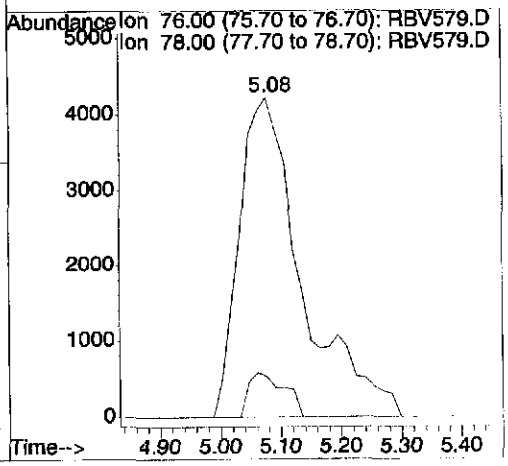


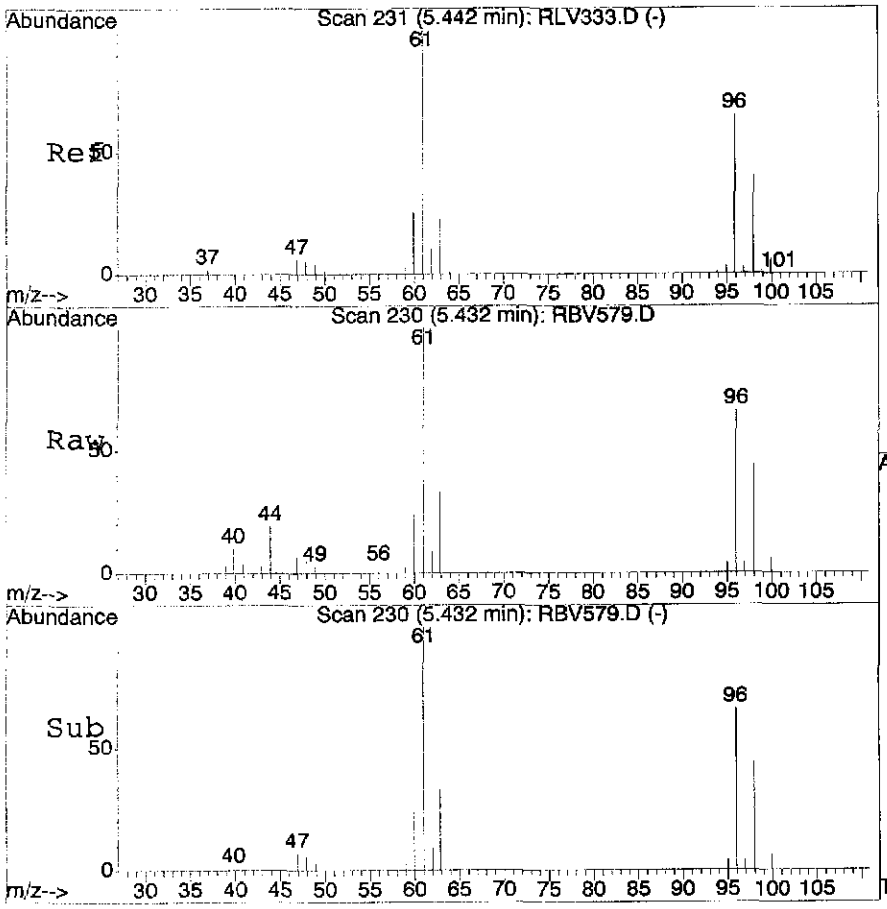


#20
Carbon disulfide
Concen: 0.33 ug/l
RT: 5.08 min Scan# 206
Delta R.T. 0.00 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 76 Resp: 30362

Ion	Ratio	Lower	Upper
76	100		
78	7.9	0.0	38.9

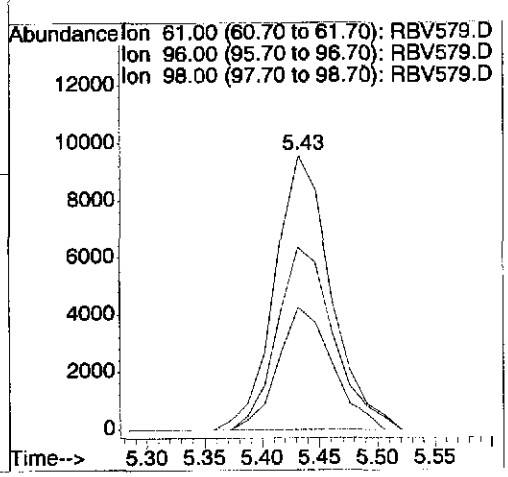


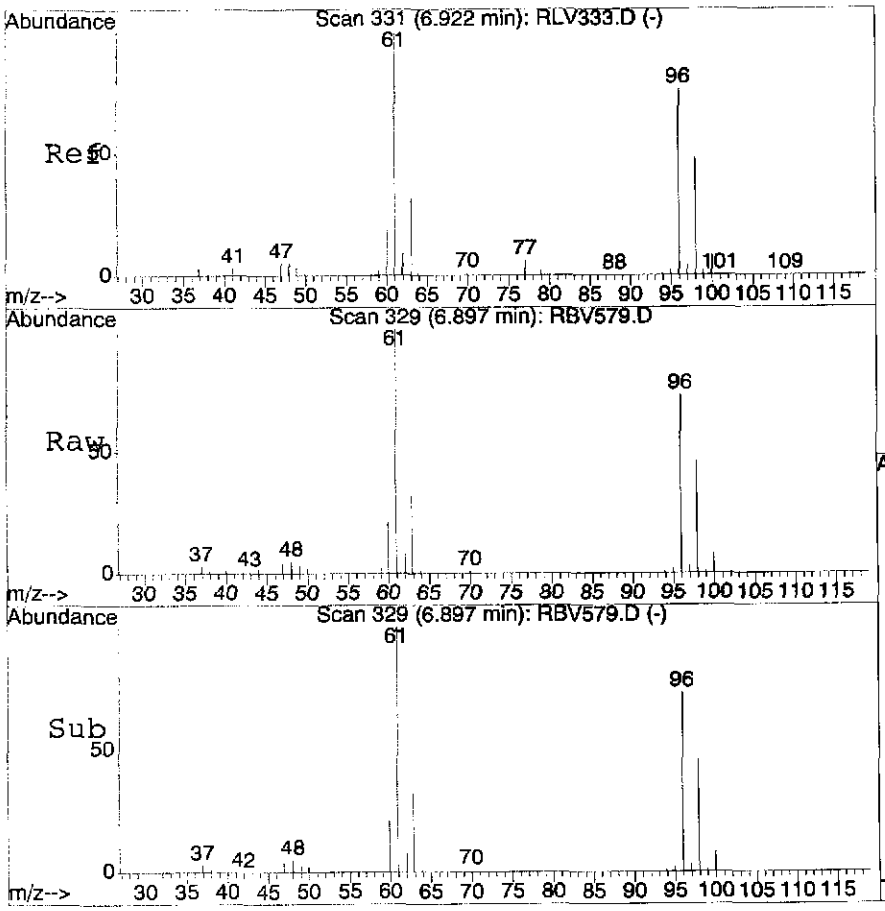


#23
trans-1,2-Dichloroethene
Concen: 0.46 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 61 Resp: 32462

Ion	Ratio	Lower	Upper
61	100		
96	67.0	36.0	96.0
98	42.7	11.6	71.6

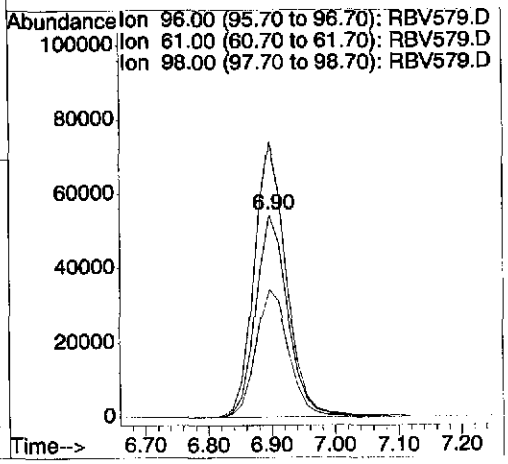


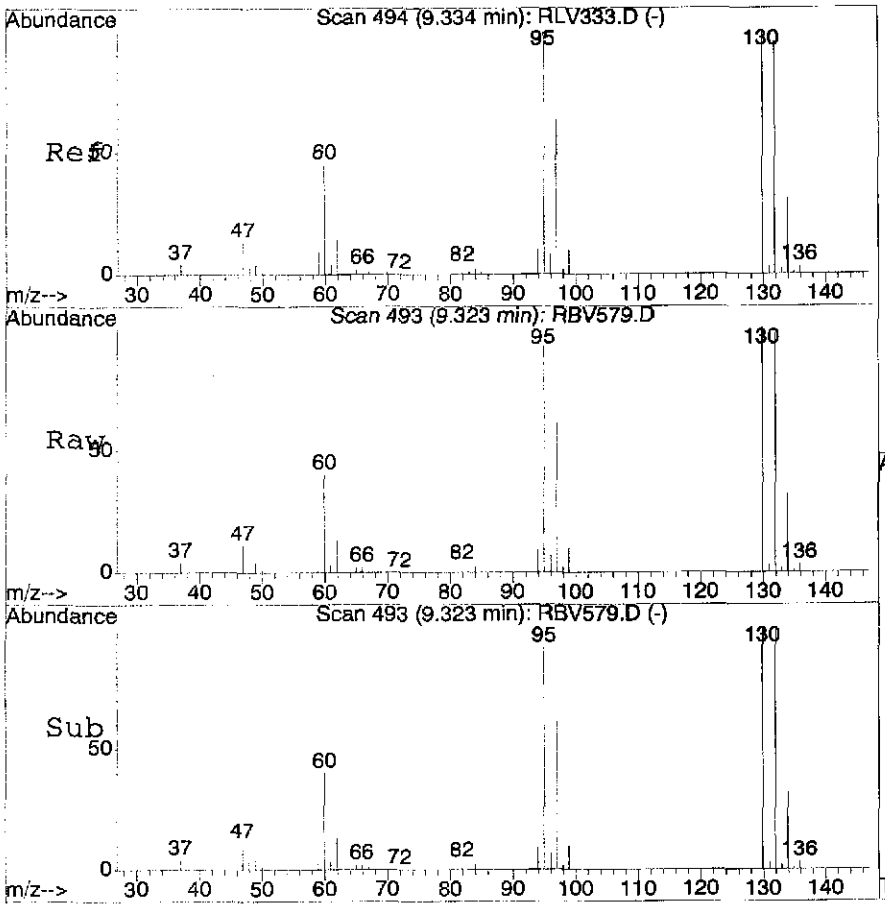


#31
cis-1,2-Dichloroethene
Concen: 3.79 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.02 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 96 Resp: 192313

Ion	Ratio	Lower	Upper
96	100		
61	136.3	123.3	183.3
98	64.4	33.4	93.4

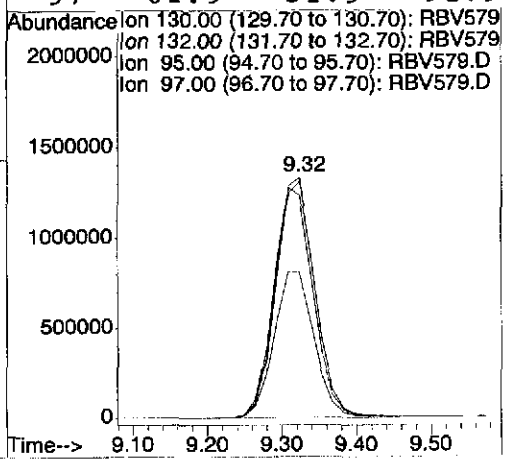


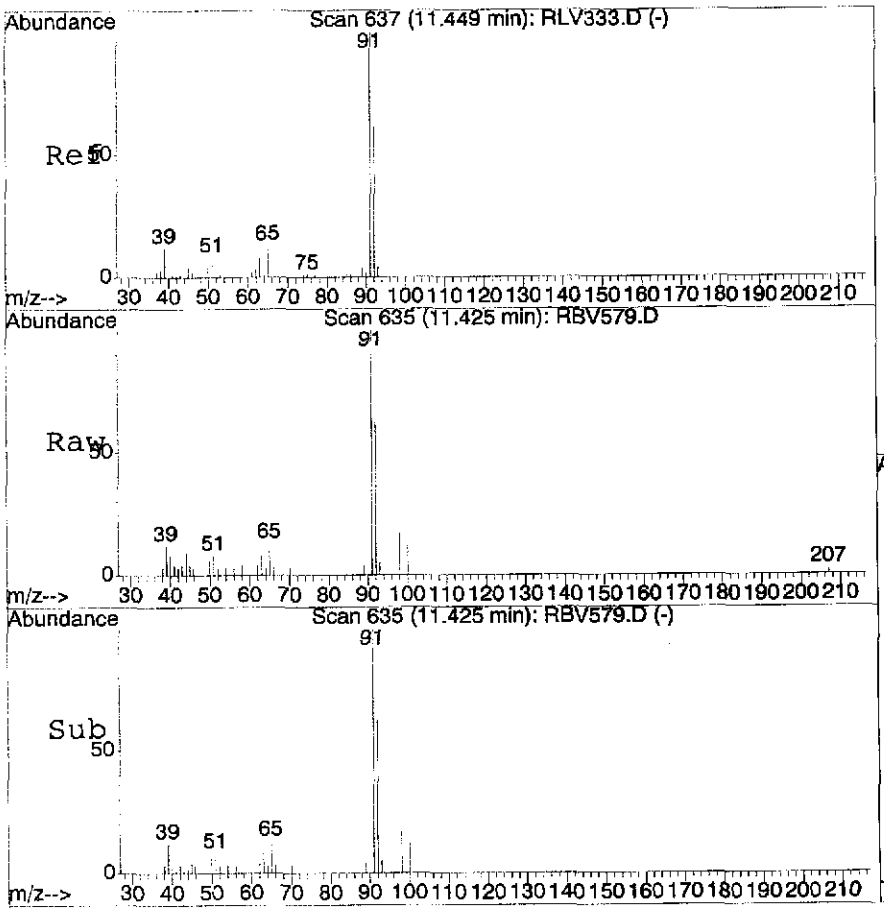


#46
Trichloroethene
Concen: 98.52 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion:130 Resp: 4930147

Ion	Ratio	Lower	Upper
130	100		
132	97.4	64.2	124.2
95	95.8	67.2	127.2
97	61.9	31.9	91.9

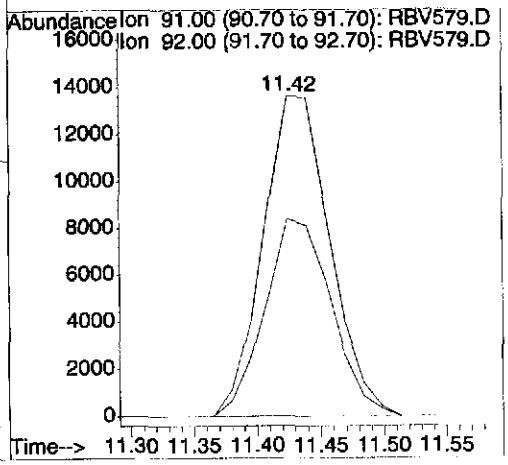


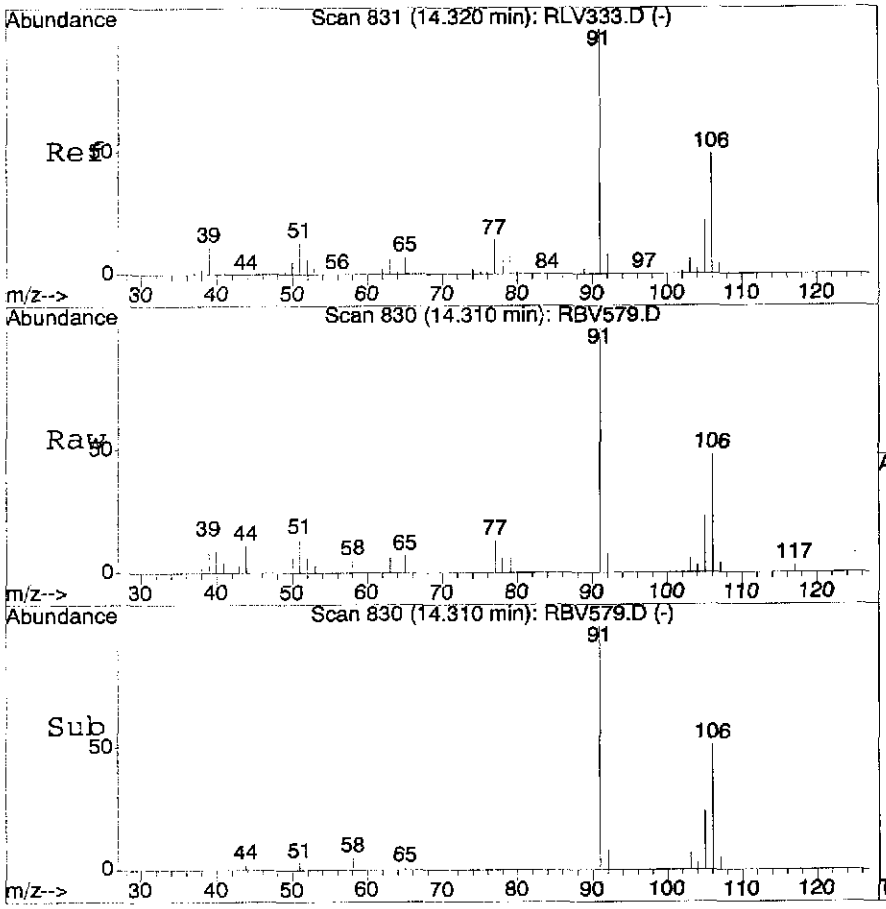


#56
Toluene
Concen: 0.26 ug/l
RT: 11.42 min Scan# 635
Delta R.T. -0.02 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 91 Resp: 49668

Ion	Ratio	Lower	Upper
91	100		
92	61.3	31.0	91.0

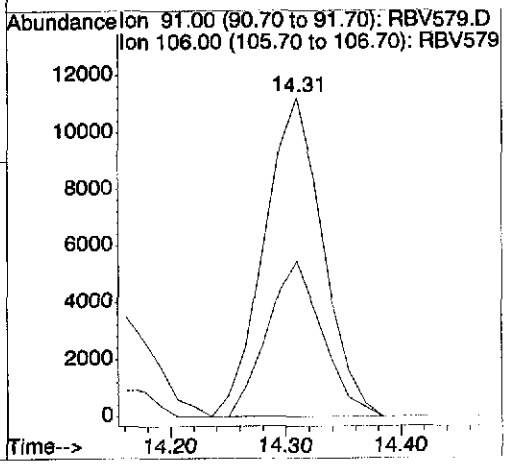




#69
m-Xylene & p-Xylene
Concen: 0.24 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV579.D
Acq: 22 Feb 2011 1:21 pm

Tgt Ion: 91 Resp: 39295

Ion	Ratio	Lower	Upper
91	100		
106	45.6	19.5	79.5



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/24/11 14:35
Sample ID:	SSI-HP-007	Date Analyzed:	02/24/11 14:35
Lab Samp ID:	B186-08R	Dilution Factor:	1
Lab File ID:	RBB479	Matrix	: WATER
Ext Btch ID:	V003B28	% Moisture	: NA
Calib. Ref.:	RBB361	Instrument ID	: T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.22J	1.0	0.20
1,1-DICHLOROETHENE	0.30J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.8	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	0.50J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.20J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.63J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.36J	1.0	0.20
TRICHLOROETHENE	45	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.84	10.00	98.4	70-120
4-BROMOFLUOROBENZENE	9.70	10.00	97.0	75-120
TOLUENE-D8	9.83	10.00	98.3	85-120
DIBROMOFLUOROMETHANE	10.0	10.00	100	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB479.D
Acq On : 24 Feb 2011 2:35 pm
Sample : 11B186-08R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:10 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1665917	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1481738	10.00	ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.10	152	566020	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	715918	10.01	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.10%	
38) 1,2-Dichloroethane-d4	12.76	65	689232	9.84	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.40%	
53) Toluene-d8	16.04	98	2207924	9.83	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.30%	
74) 4-Bromofluorobenzene	20.48	95	843876	9.70	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.00%	
Target Compounds						Qvalue
12) Acetone	7.01	43	36134	5.22	ug/l	94
13) 1,1-Dichloroethene	7.31	61	31963	0.30	ug/l	96
22) trans-1,2-Dichloroethene	9.04	61	36415	0.36	ug/l	96
25) 1,1-Dichloroethane	9.93	63	25344	0.22	ug/l	87
30) cis-1,2-Dichloroethene	11.14	96	312567	4.81	ug/l	95
35) 1,1,1-Trichloroethane	12.20	97	12484	0.11	ug/l	96
44) Trichloroethene	14.03	130	2879483	44.60	ug/l	100
54) Toluene	16.17	91	163215	0.63	ug/l	98
67) m-Xylene & p-Xylene	18.75	91	128645	0.50	ug/l	95
68) o-Xylene	19.48	91	51371	0.20	ug/l	97

(#) = qualifier out of range (m) = manual integration

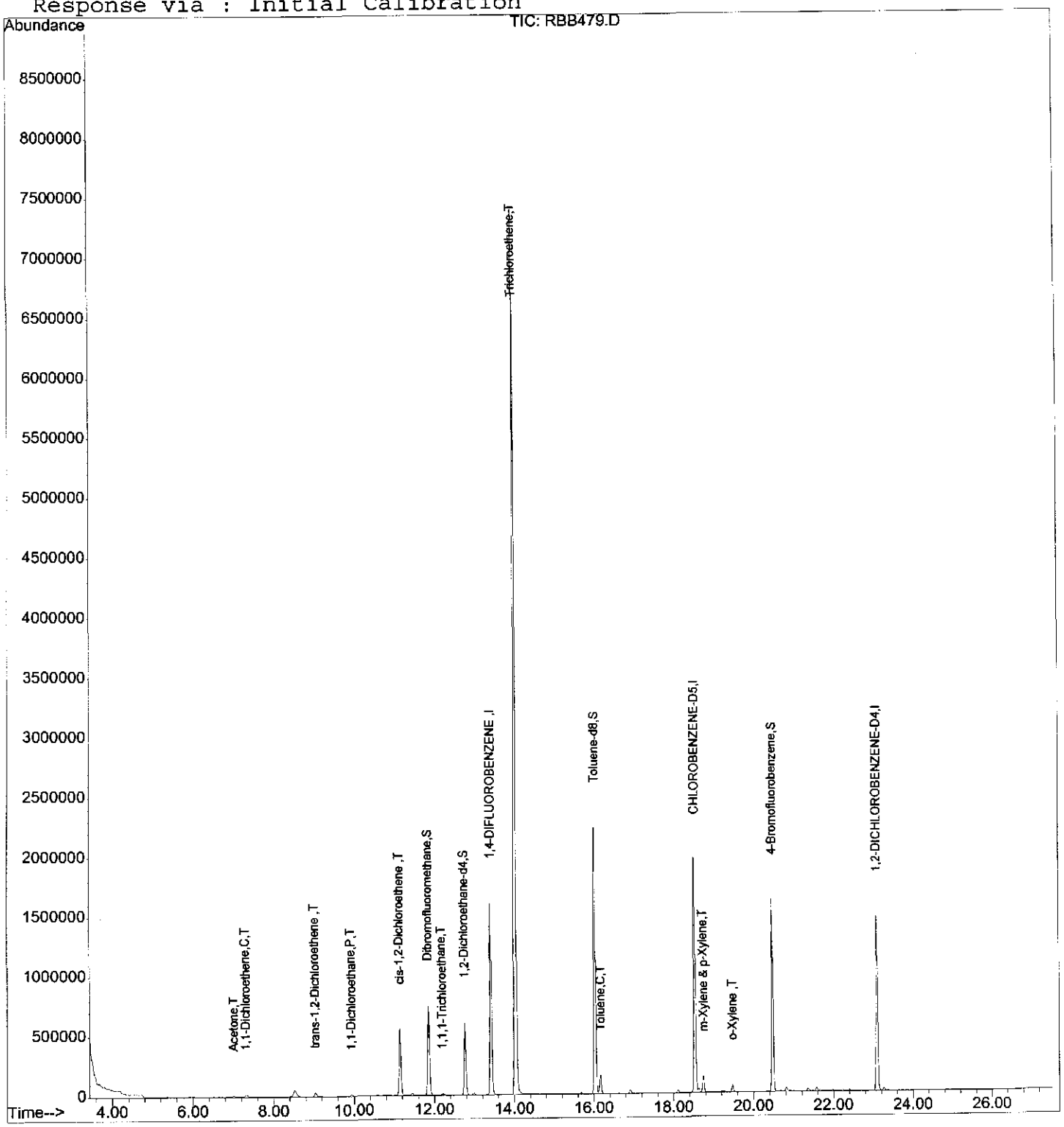
Quantitation Report

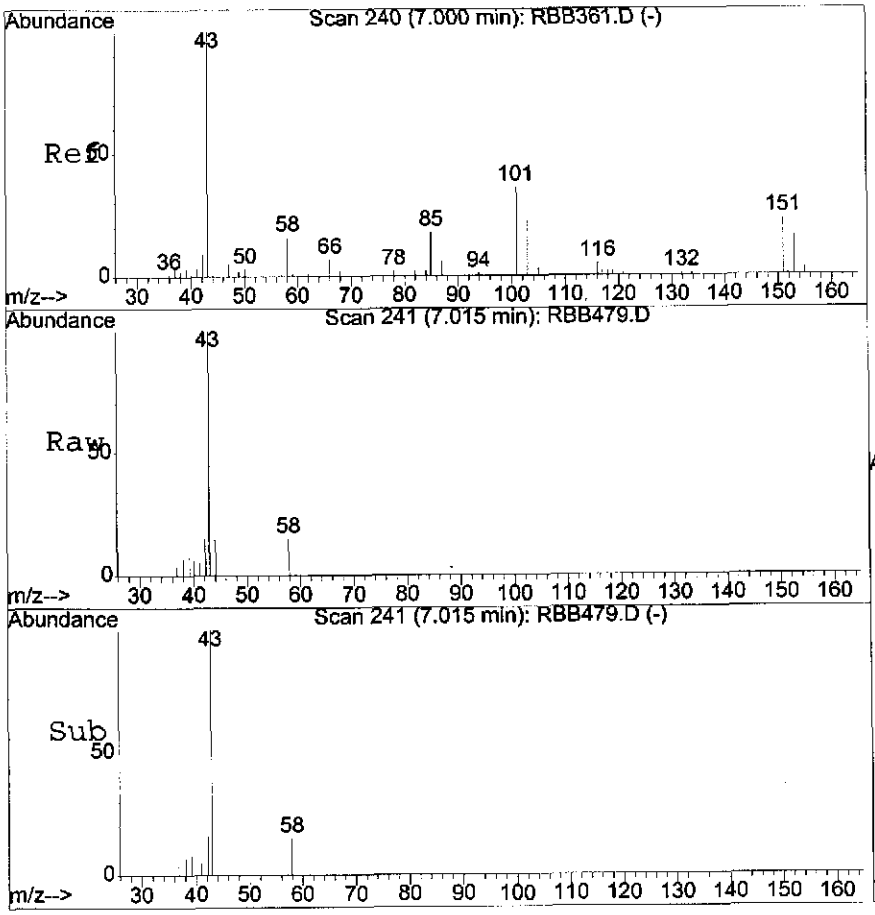
Data File : D:\HPCHEM\1\DATA\11B24\RBB479.D
Acq On : 24 Feb 2011 2:35 pm
Sample : 11B186-08R 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 7:10 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration

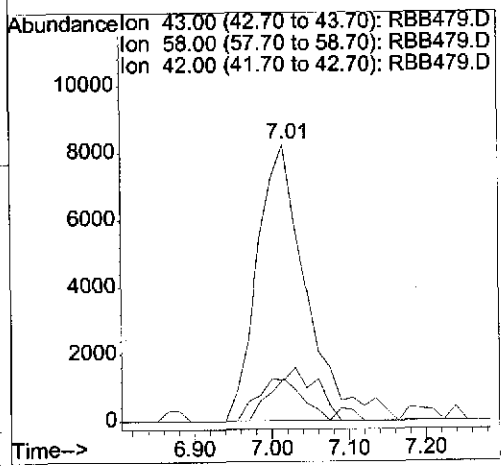


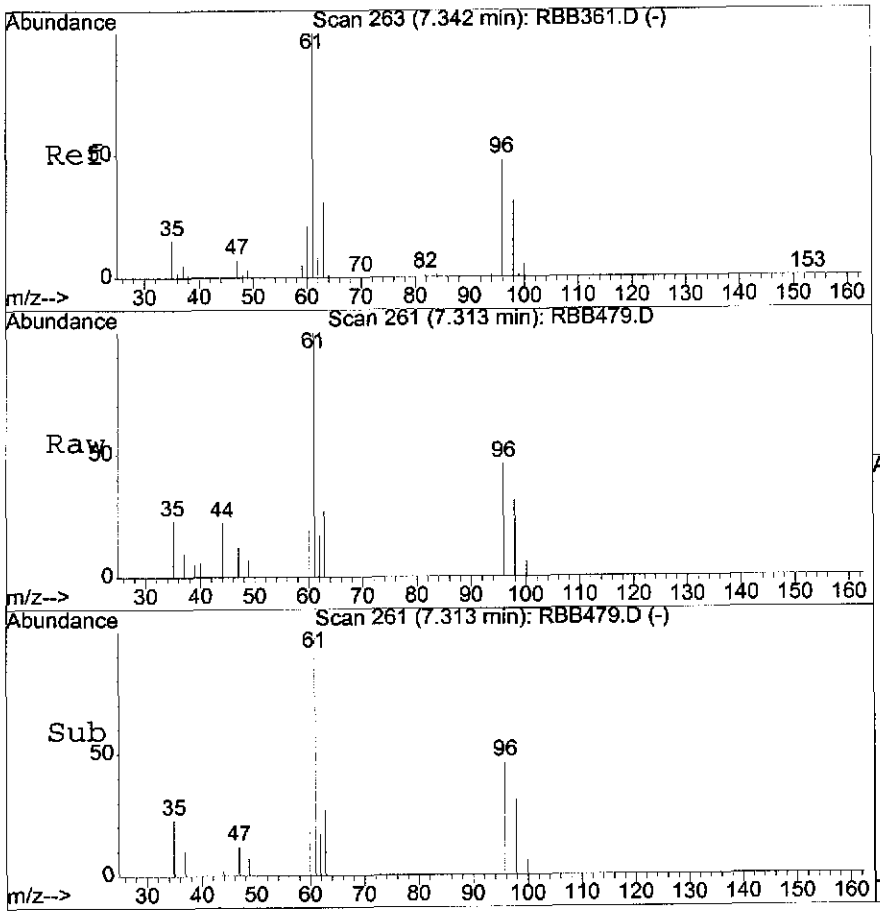


#12
Acetone
Concen: 5.22 ug/l
RT: 7.01 min Scan# 241
Delta R.T. 0.02 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 43 Resp: 36134

Ion	Ratio	Lower	Upper
43	100		
58	19.9	0.0	47.1
42	11.1	0.0	38.9

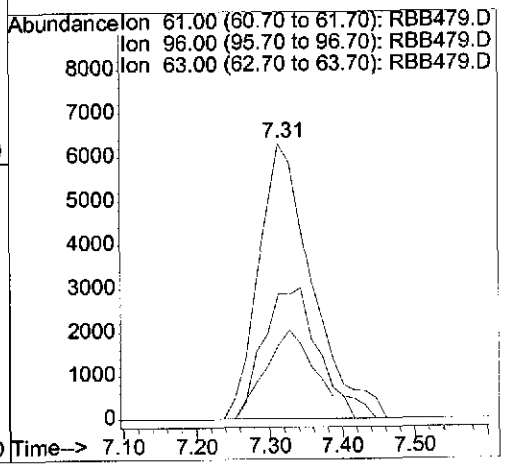


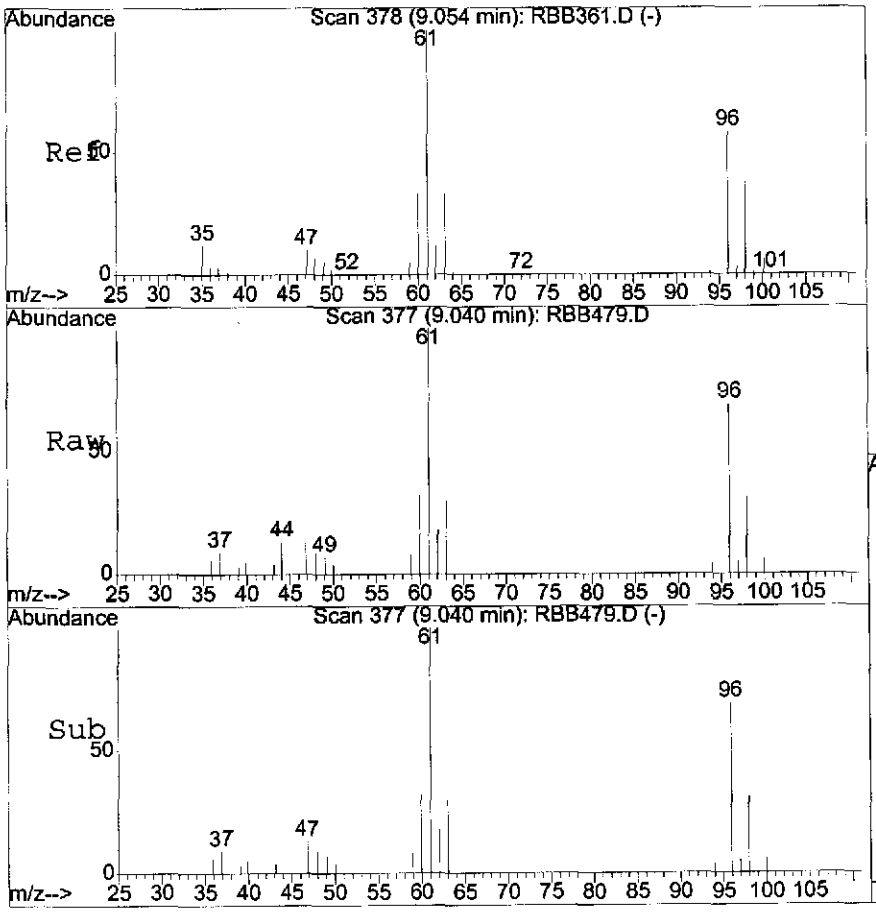


#13
1,1-Dichloroethene
Concen: 0.30 ug/l
RT: 7.31 min Scan# 261
Delta R.T. -0.03 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 61 Resp: 31963

Ion	Ratio	Lower	Upper
61	100		
96	49.9	15.9	75.9
63	30.9	1.7	61.7

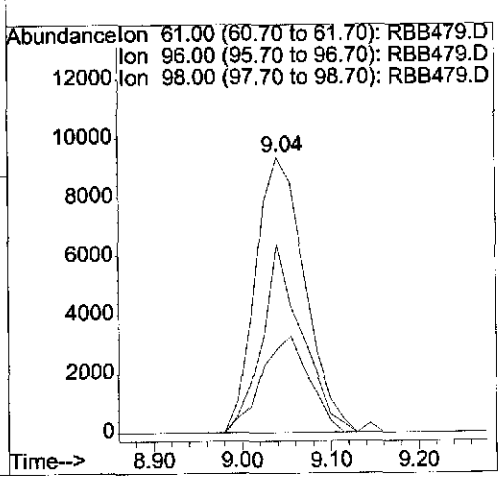


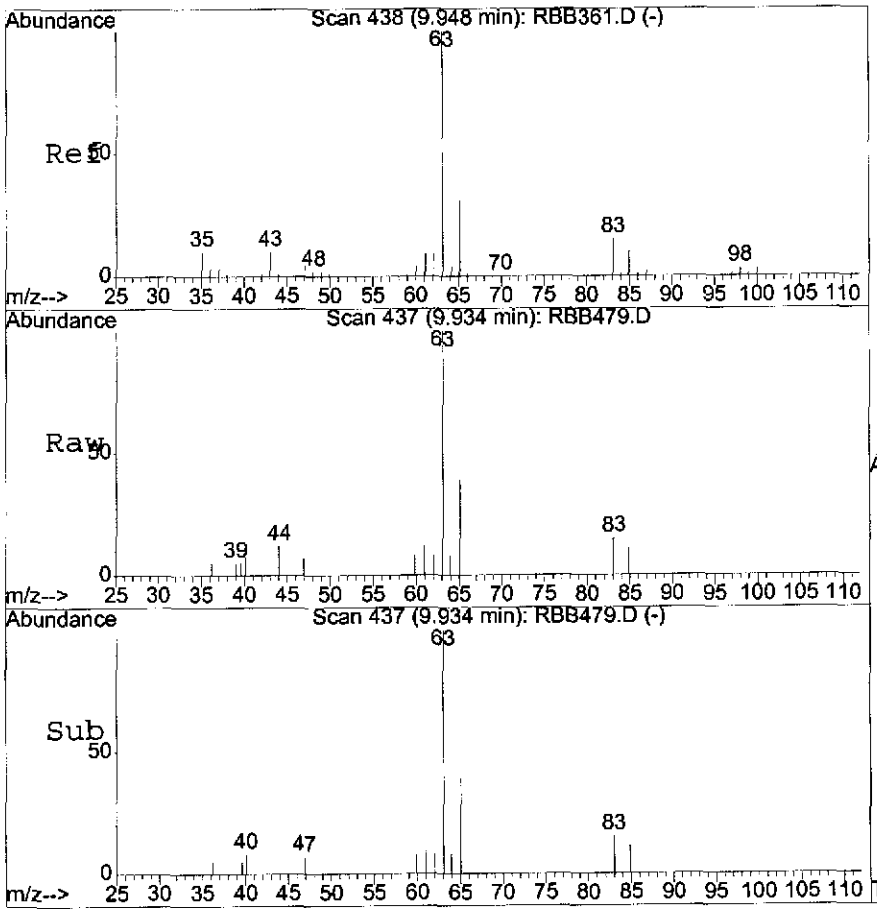


#22
trans-1,2-Dichloroethene
Concen: 0.36 ug/l
RT: 9.04 min Scan# 377
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 61 Resp: 36415

Ion	Ratio	Lower	Upper
61	100		
96	55.0	27.2	87.2
98	33.7	6.4	66.4

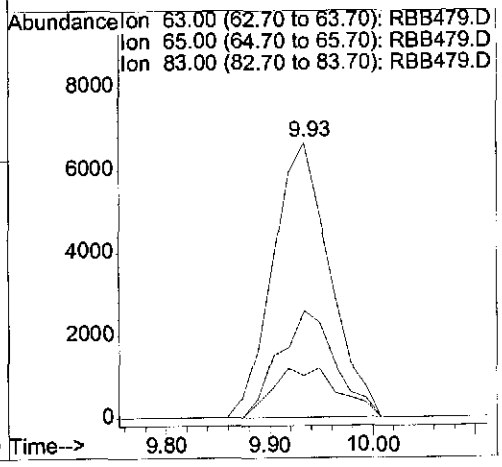


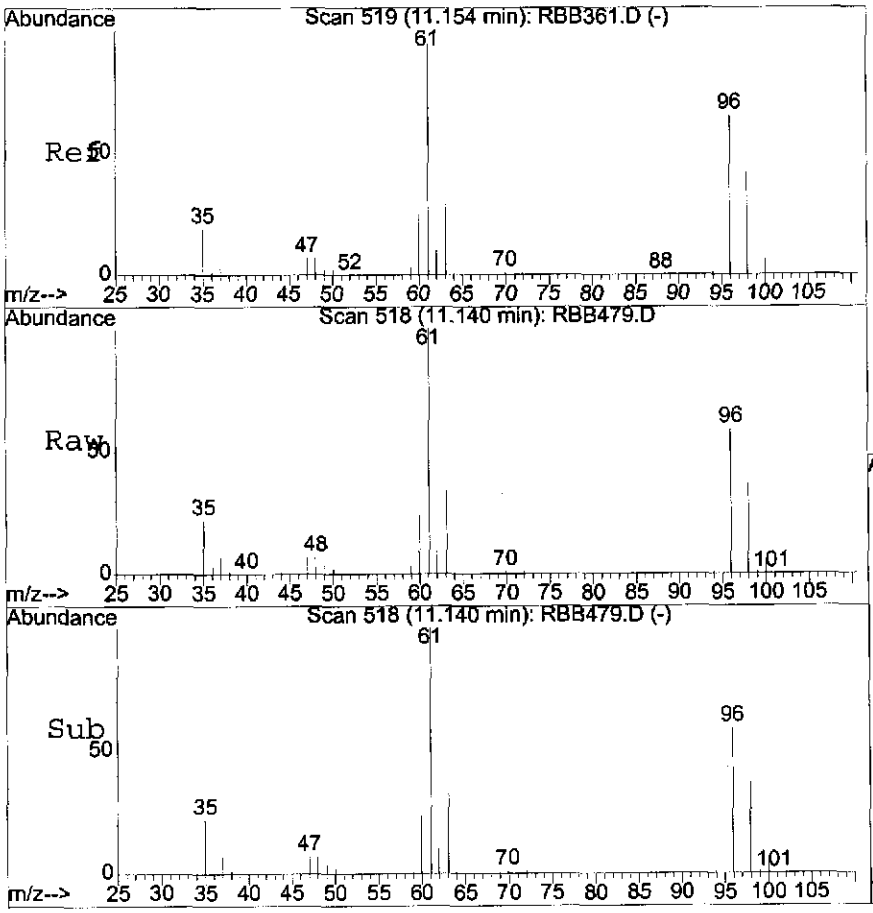


#25
1,1-Dichloroethane
Concen: 0.22 ug/l
RT: 9.93 min Scan# 437
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 63 Resp: 25344

Ion	Ratio	Lower	Upper
63	100		
65	38.4	1.4	61.4
83	20.8	0.0	44.9

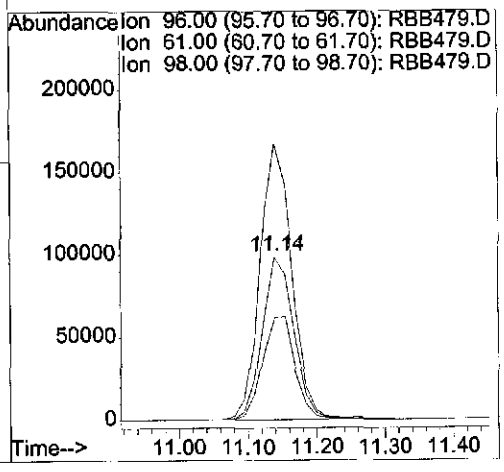


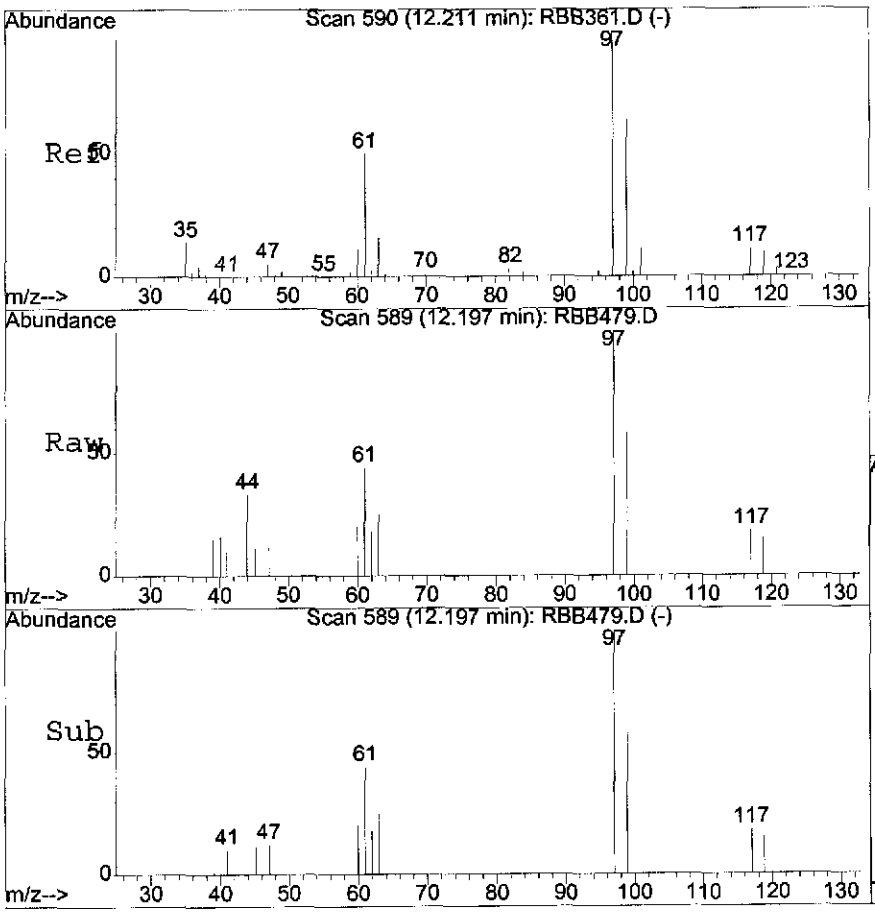


#30
cis-1,2-Dichloroethene
Concen: 4.81 ug/l
RT: 11.14 min Scan# 518
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 96 Resp: 312567

Ion	Ratio	Lower	Upper
96	100		
61	171.0	132.3	192.3
98	64.9	34.0	94.0

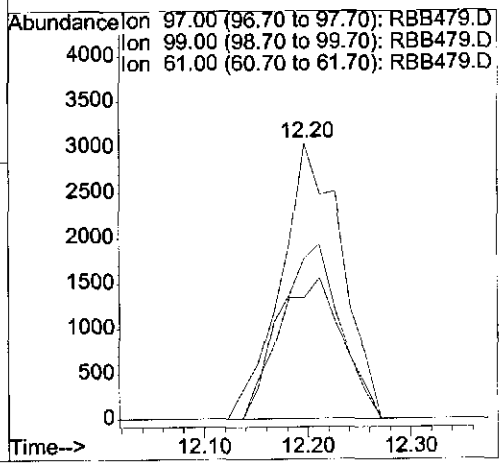


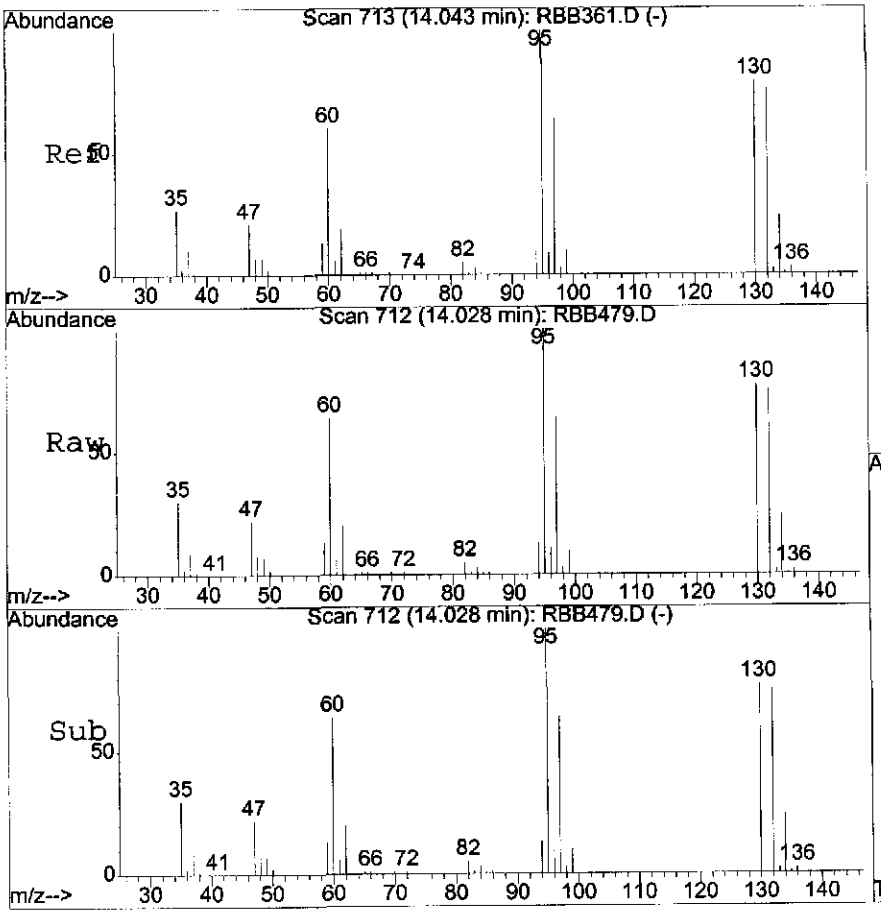


#35
1,1,1-Trichloroethane
Concen: 0.11 ug/l
RT: 12.20 min Scan# 589
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 97 Resp: 12484

Ion	Ratio	Lower	Upper
97	100		
99	62.6	34.5	94.5
61	53.9	20.2	80.2

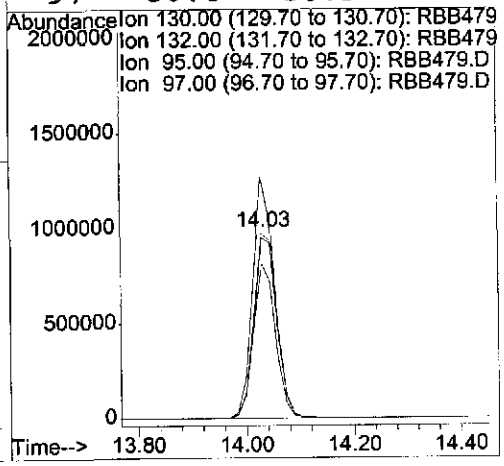


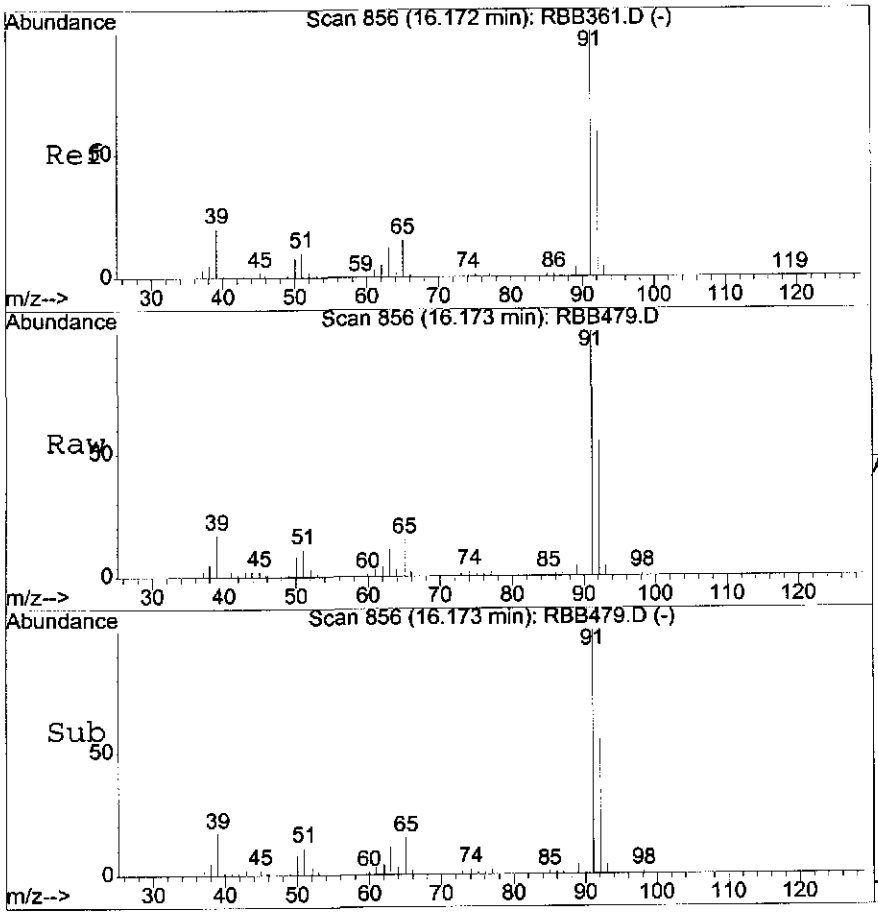


#44
Trichloroethene
Concen: 44.60 ug/l
RT: 14.03 min Scan# 712
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion:130 Resp: 2879483

Ion	Ratio	Lower	Upper
130	100		
132	97.1	67.3	127.3
95	123.8	93.7	153.7
97	80.6	50.2	110.2

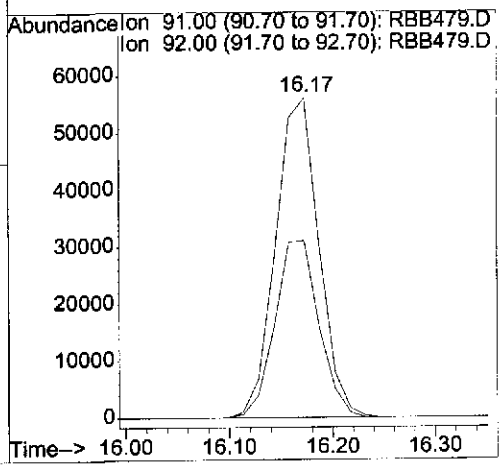


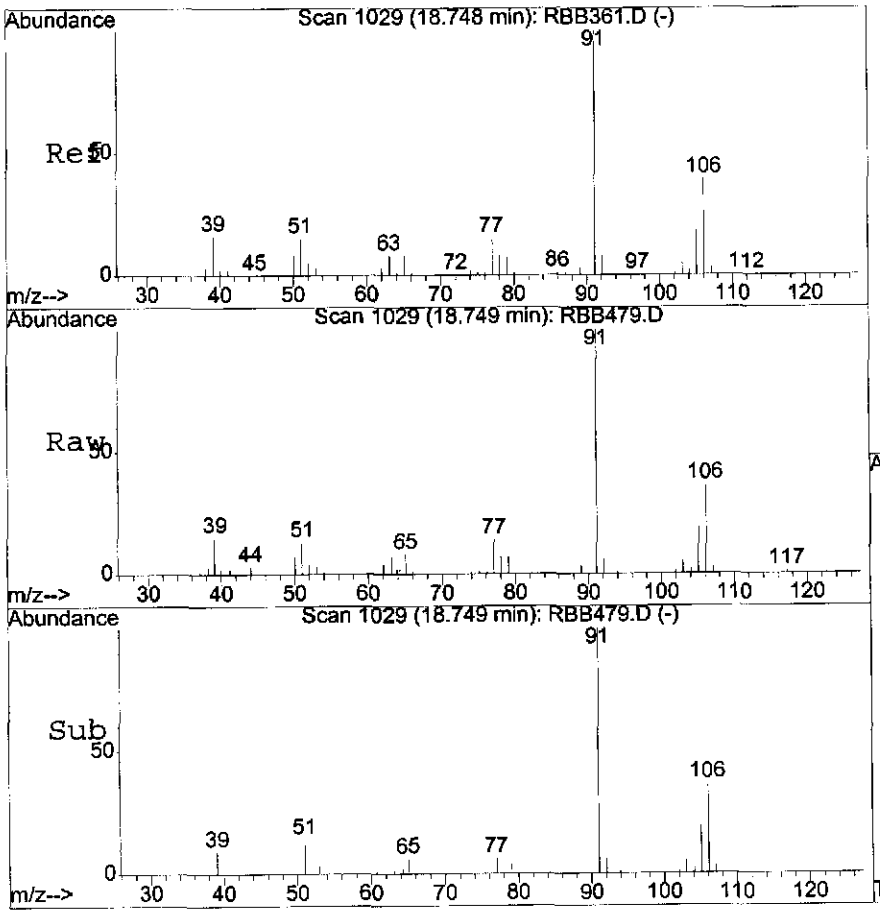


#54
Toluene
Concen: 0.63 ug/l
RT: 16.17 min Scan# 856
Delta R.T. 0.00 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 91 Resp: 163215

Ion	Ratio	Lower	Upper
91	100		
92	56.5	28.3	88.3

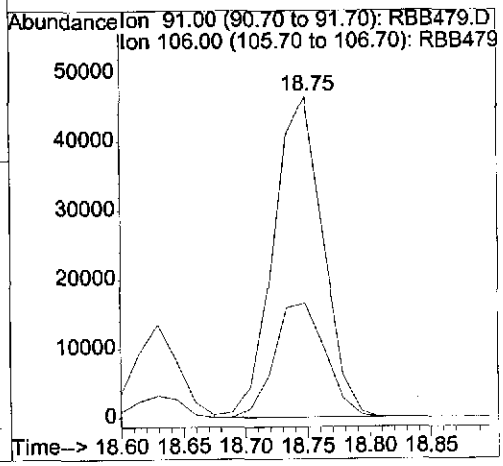


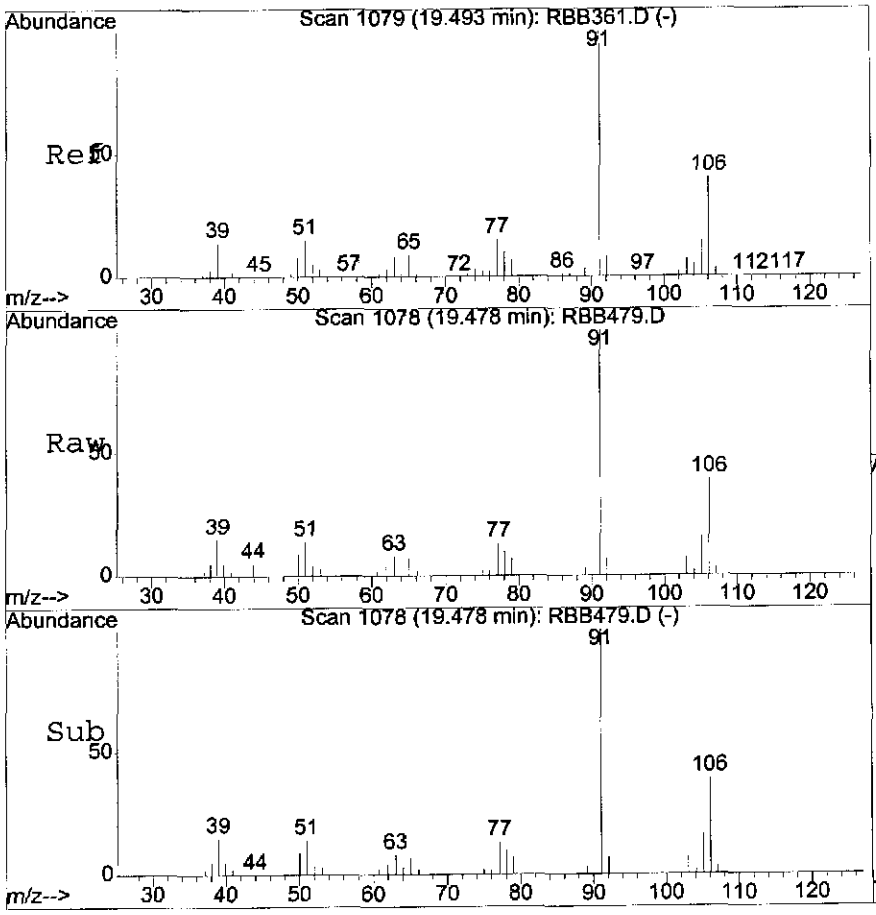


#67
m-Xylene & p-Xylene
Concen: 0.50 ug/l
RT: 18.75 min Scan# 1029
Delta R.T. 0.00 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 91 Resp: 128645

Ion	Ratio	Lower	Upper
91	100		
106	36.8	9.6	69.6

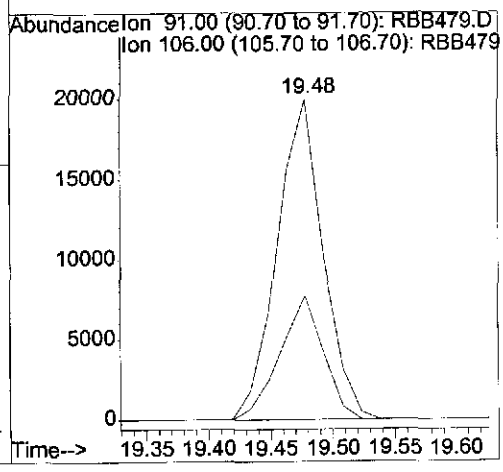




#68
o-Xylene
Concen: 0.20 ug/l
RT: 19.48 min Scan# 1078
Delta R.T. -0.01 min
Lab File: RBB479.D
Acq: 24 Feb 2011 2:35 pm

Tgt Ion: 91 Resp: 51371

Ion	Ratio	Lower	Upper
91	100		
106	36.4	8.0	68.0



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 12:50
Sample ID:	SSI-HP-008	Date Analyzed:	02/22/11 12:50
Lab Samp ID:	B186-09	Dilution Factor:	1
Lab File ID:	RBV578	Matrix	: WATER
Ext Btch ID:	V001B28	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.23J	1.0	0.20
1,1-DICHLOROETHENE	0.28J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	6.0J	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	1.5	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.23J	1.0	0.20
M/P-XYLENES	0.44J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.28J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.5	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.42J	1.0	0.20
TRICHLOROETHENE	50	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.7	10.00	107	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.63	10.00	96.3	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV578.D
Acq On : 22 Feb 2011 12:50 pm
Sample : 11B186-09 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:10 2011

Vial: 13
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1385637	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1205121	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	403768	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	399830	9.63	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	96.30%	
40) 1,2-Dichloroethane-d4	8.20	65	321834	9.91	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.10%	
55) Toluene-d8	11.29	98	1628593	10.38	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	103.80%	
76) 4-Bromofluorobenzene	16.29	95	490731	10.72	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	107.20%	
Target Compounds						Qvalue
13) Acetone	4.22	43	106133	19.42	ug/l #	59
14) 1,1-Dichloroethene	4.38	61	18162	0.28	ug/l	96
15) tert-Butyl alcohol	4.59	59	12599	6.20	ug/l #	1
23) trans-1,2-Dichloroethene	5.43	61	30122	0.42	ug/l	98
26) 1,1-Dichloroethane	6.02	63	20364	0.23	ug/l	88
29) 2-Butanone	6.66	43	61862	6.04	ug/l	98
31) cis-1,2-Dichloroethene	6.90	96	253129	4.93	ug/l	90
45) Benzene	8.38	78	284785	1.52	ug/l	98
46) Trichloroethene	9.32	130	2475117	49.75	ug/l	98
56) Toluene	11.42	91	293962	1.53	ug/l	99
68) Ethylbenzene	14.16	91	50270	0.23	ug/l	98
69) m-Xylene & p-Xylene	14.31	91	71307	0.44	ug/l	99
70) o-Xylene	15.12	91	43277	0.28	ug/l	96

(#) = qualifier out of range (m) = manual integration

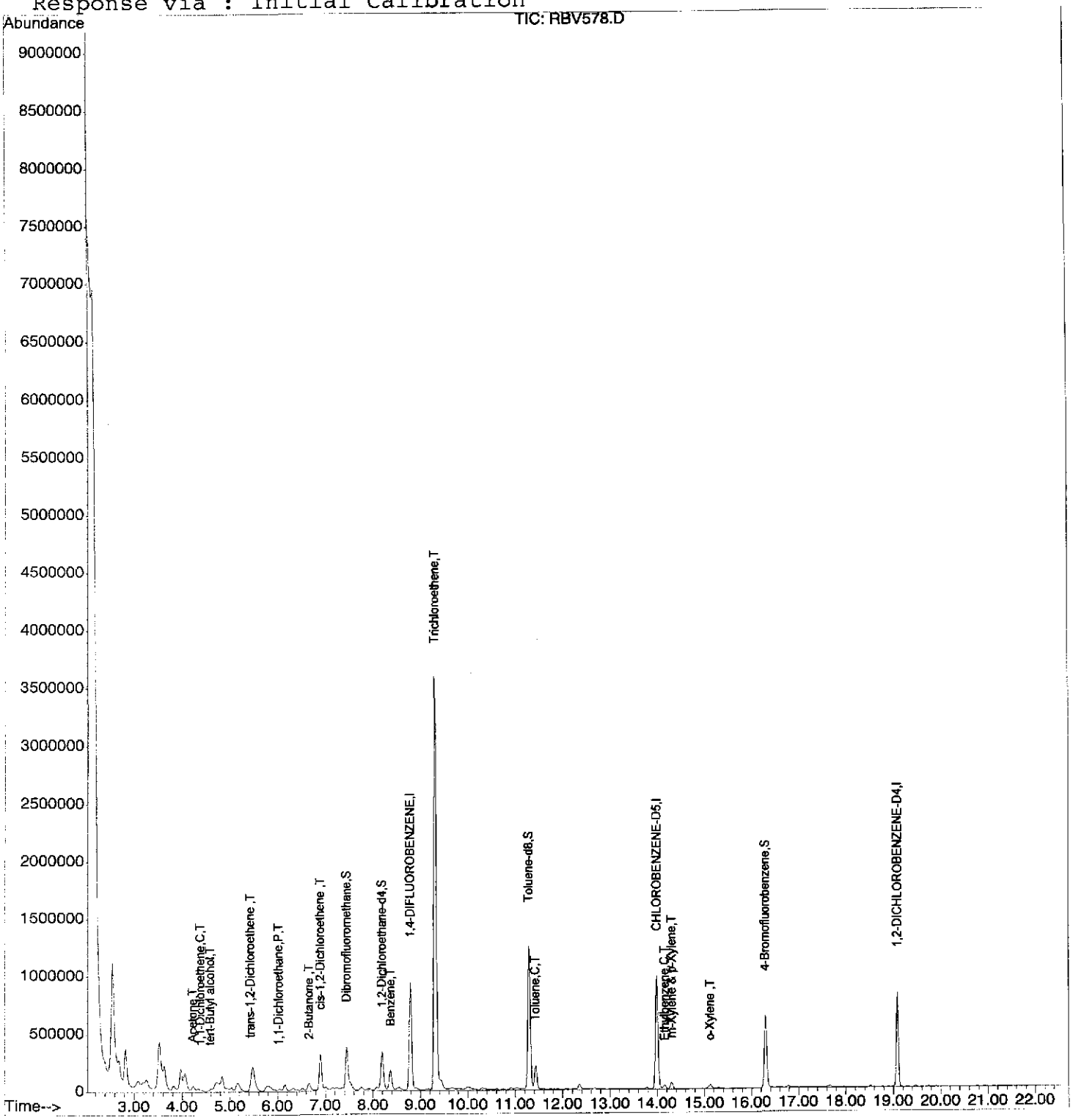
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV578.D
Acq On : 22 Feb 2011 12:50 pm
Sample : 11B186-09 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:10 2011

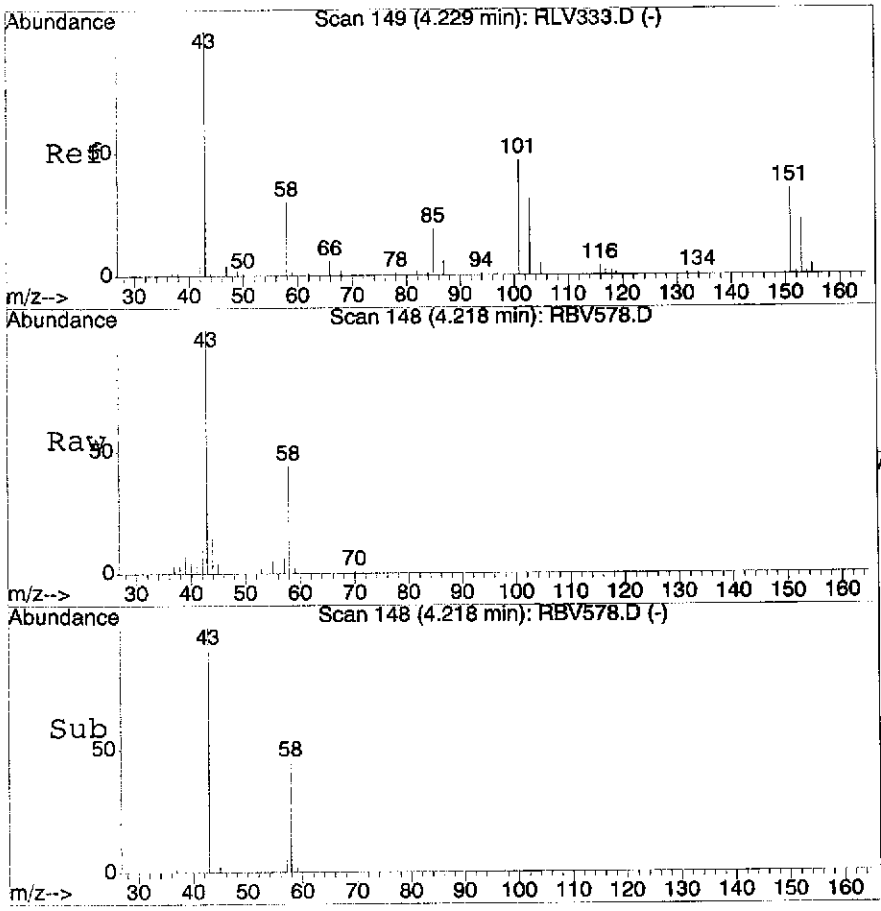
Vial: 13
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



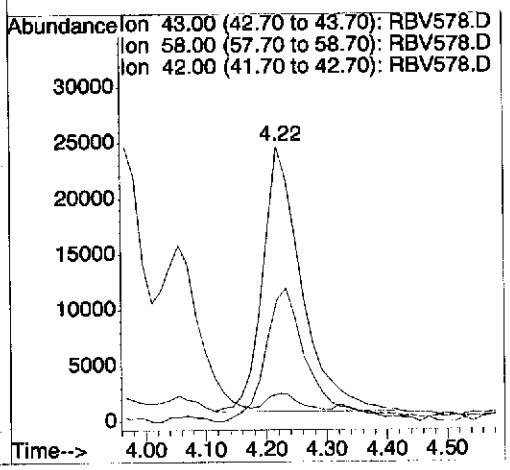
2062

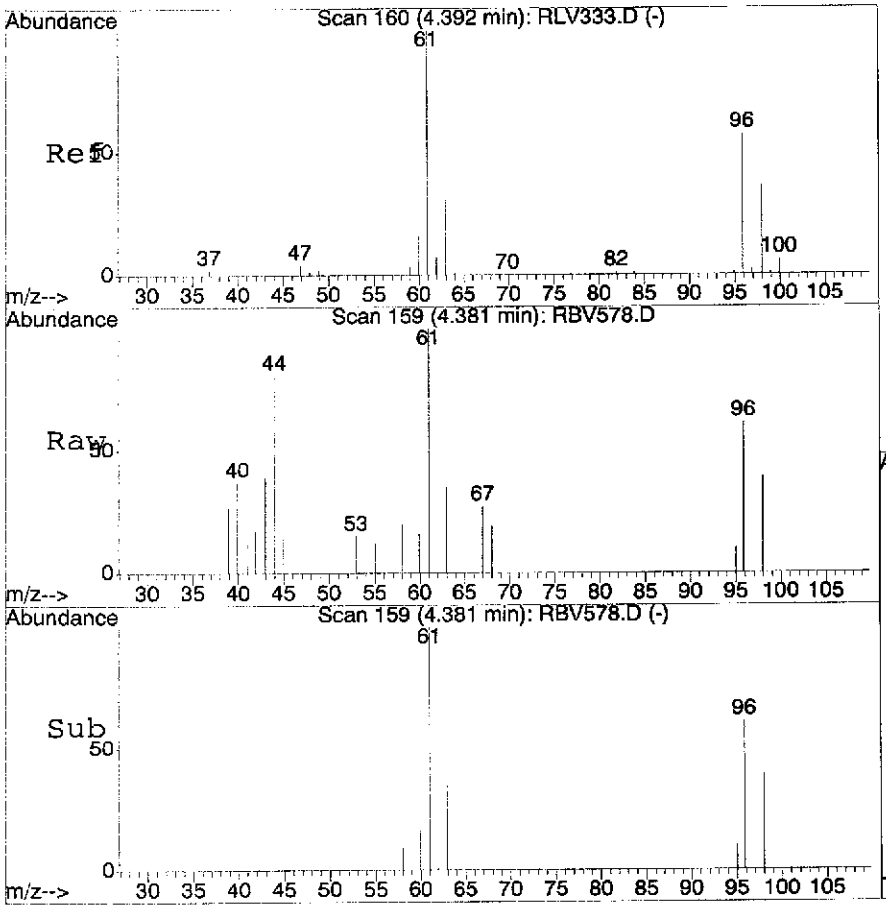


#13
Acetone
Concen: 19.42 ug/l
RT: 4.22 min Scan# 148
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 43 Resp: 106133

Ion	Ratio	Lower	Upper
43	100		
58	56.6	1.4	61.4
42	0.0	0.0	37.2

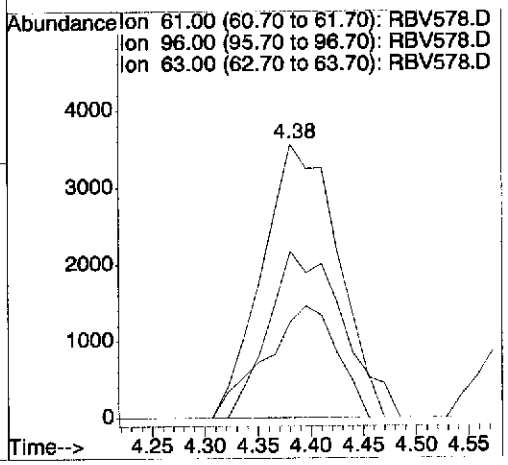


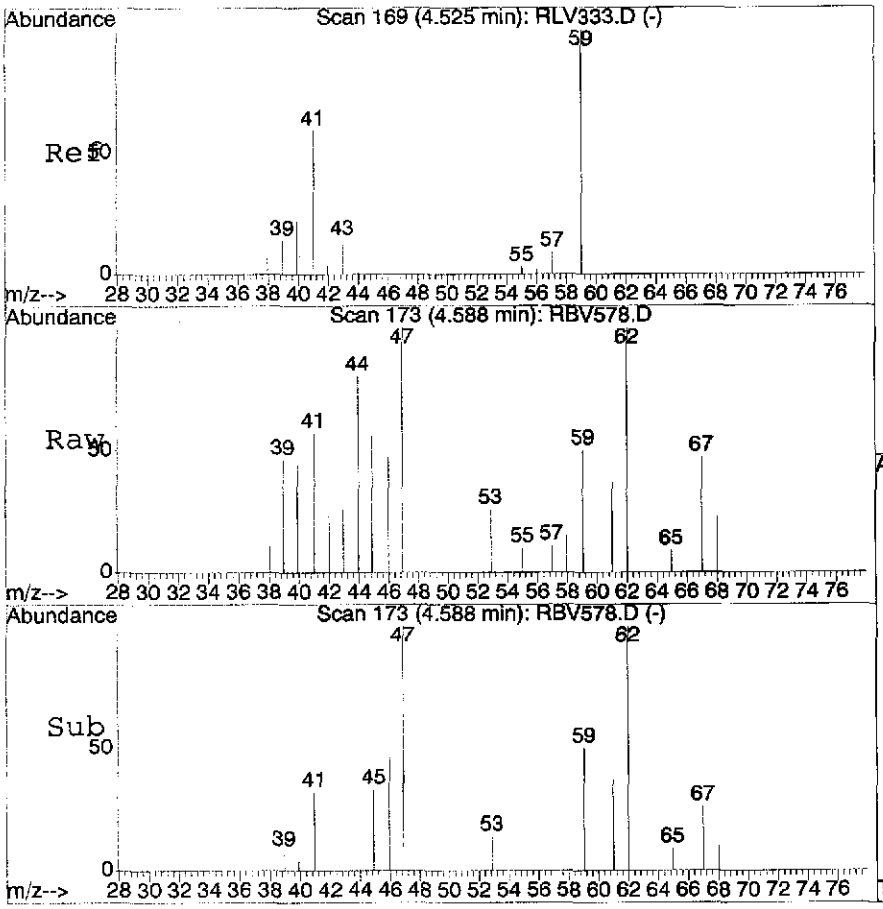


#14
1,1-Dichloroethene
Concen: 0.28 ug/l
RT: 4.38 min Scan# 159
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 61 Resp: 18162

Ion	Ratio	Lower	Upper
61	100		
96	57.0	27.7	87.7
63	38.0	2.0	62.0

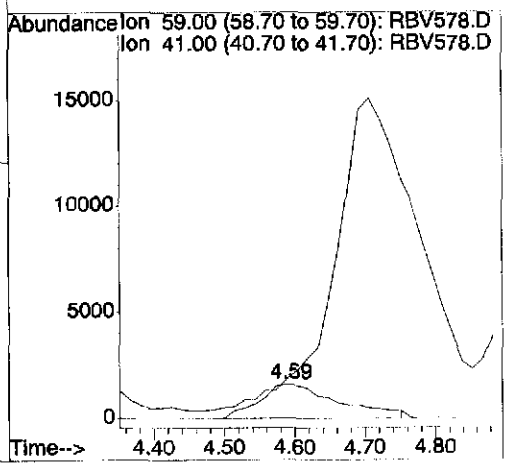


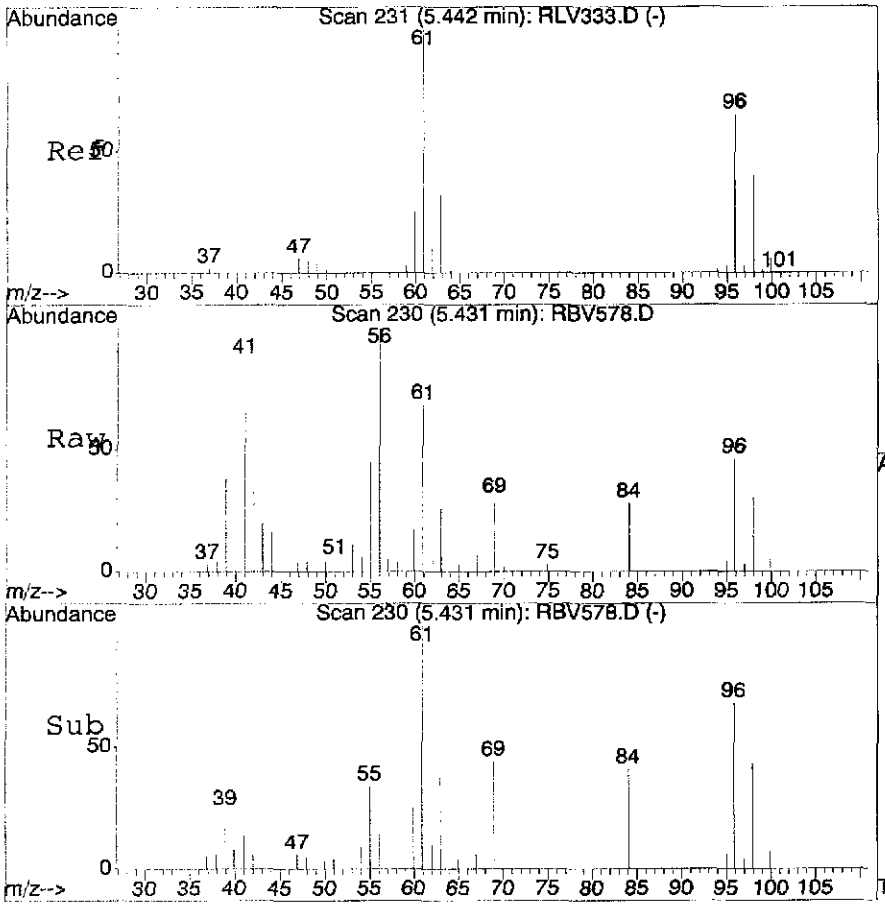


#15
tert-Butyl alcohol
Concen: 6.20 ug/l
RT: 4.59 min Scan# 173
Delta R.T. 0.06 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 59 Resp: 12599

Ion	Ratio	Lower	Upper
59	100		
41	715.4	217.5	277.5#

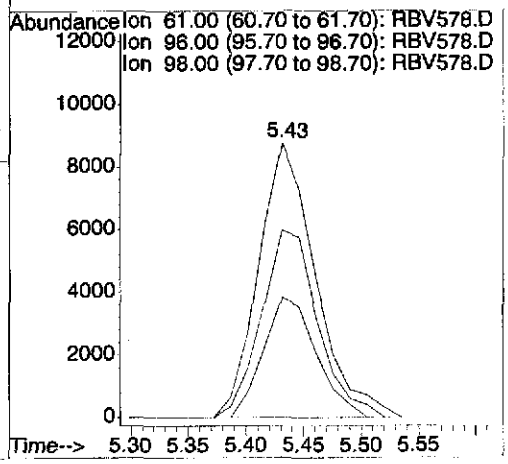


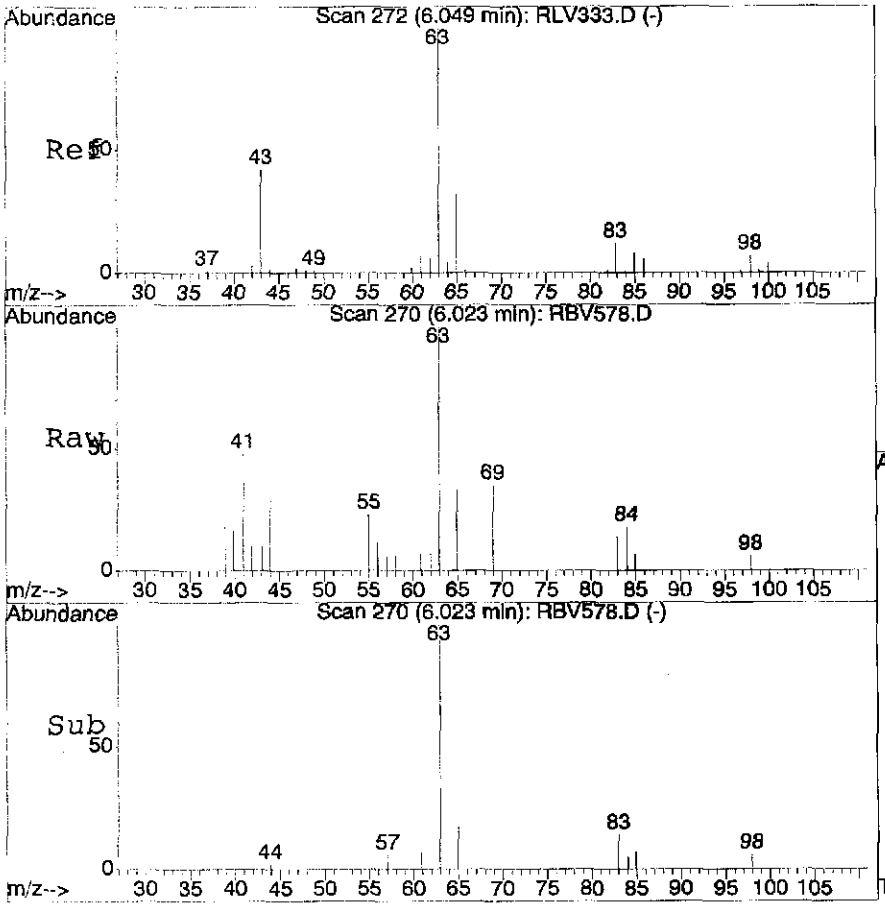


#23
trans-1,2-Dichloroethene
Concen: 0.42 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 61 Resp: 30122

Ion	Ratio	Lower	Upper
61	100		
96	67.8	36.0	96.0
98	40.8	11.6	71.6

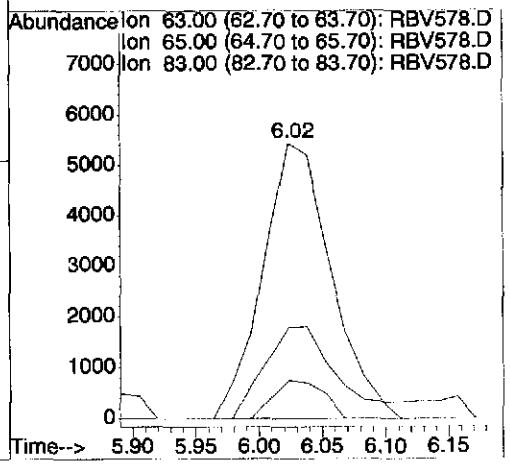


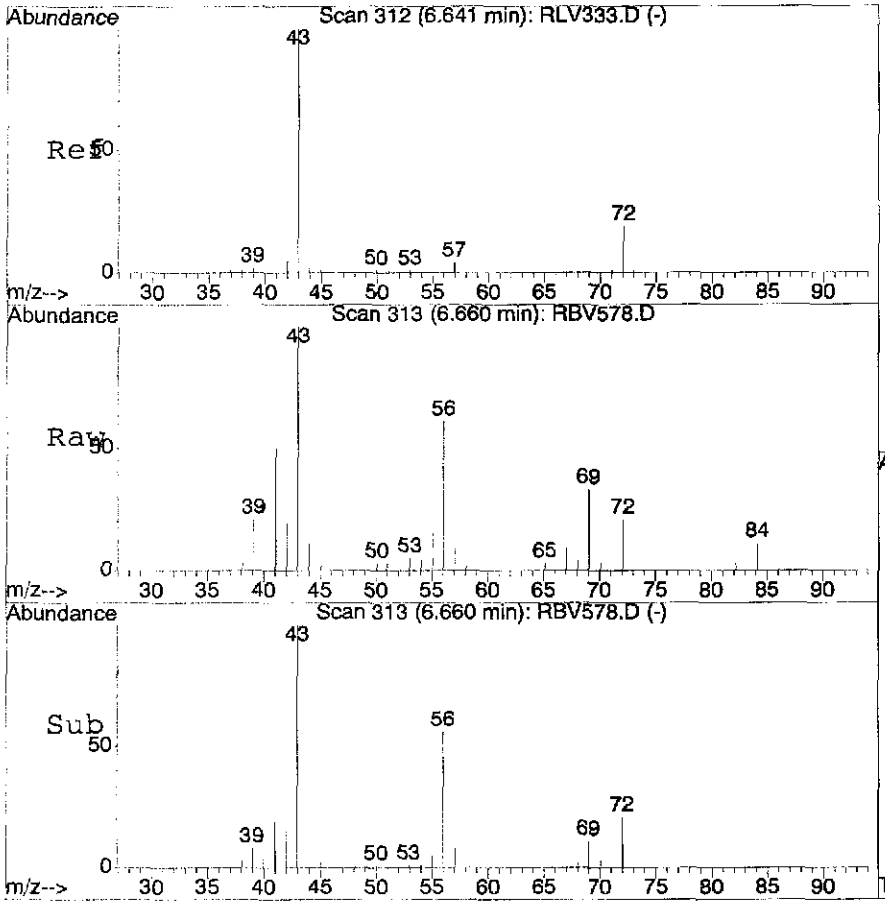


#26
1,1-Dichloroethane
Concen: 0.23 ug/l
RT: 6.02 min Scan# 270
Delta R.T. -0.03 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 63 Resp: 20364

Ion	Ratio	Lower	Upper
63	100		
65	40.6	2.3	62.3
83	10.1	0.0	42.2

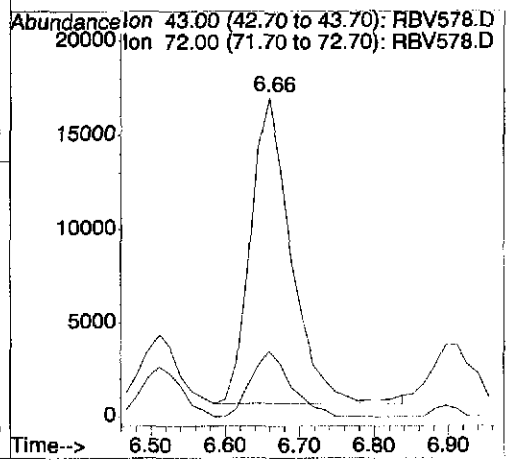


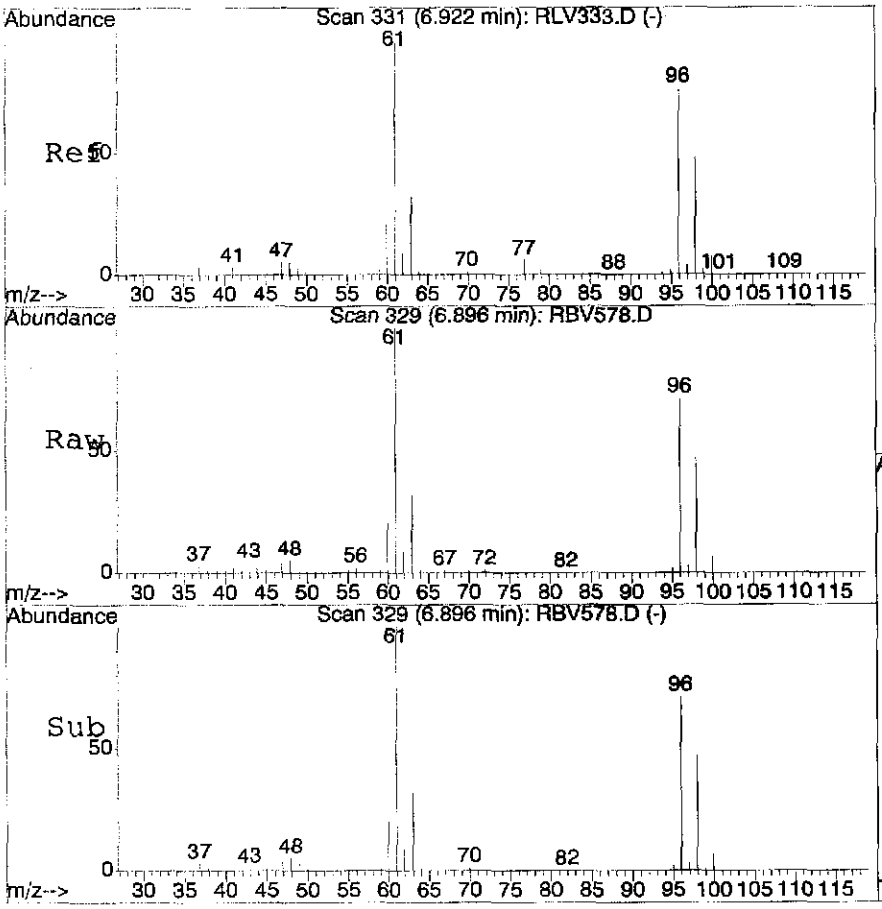


#29
2-Butanone
Concen: 6.04 ug/l
RT: 6.66 min Scan# 313
Delta R.T. 0.02 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 43 Resp: 61862

Ion	Ratio	Lower	Upper
43	100		
72	20.9	0.0	50.0

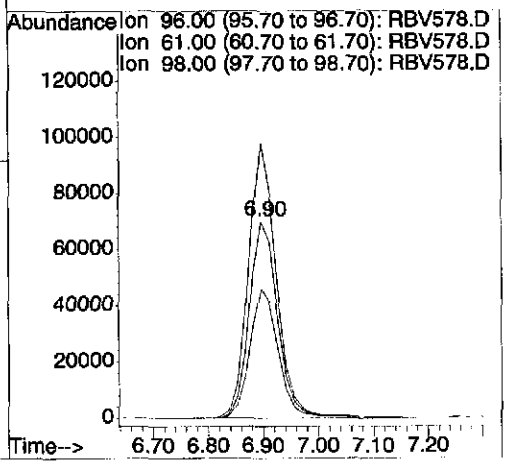


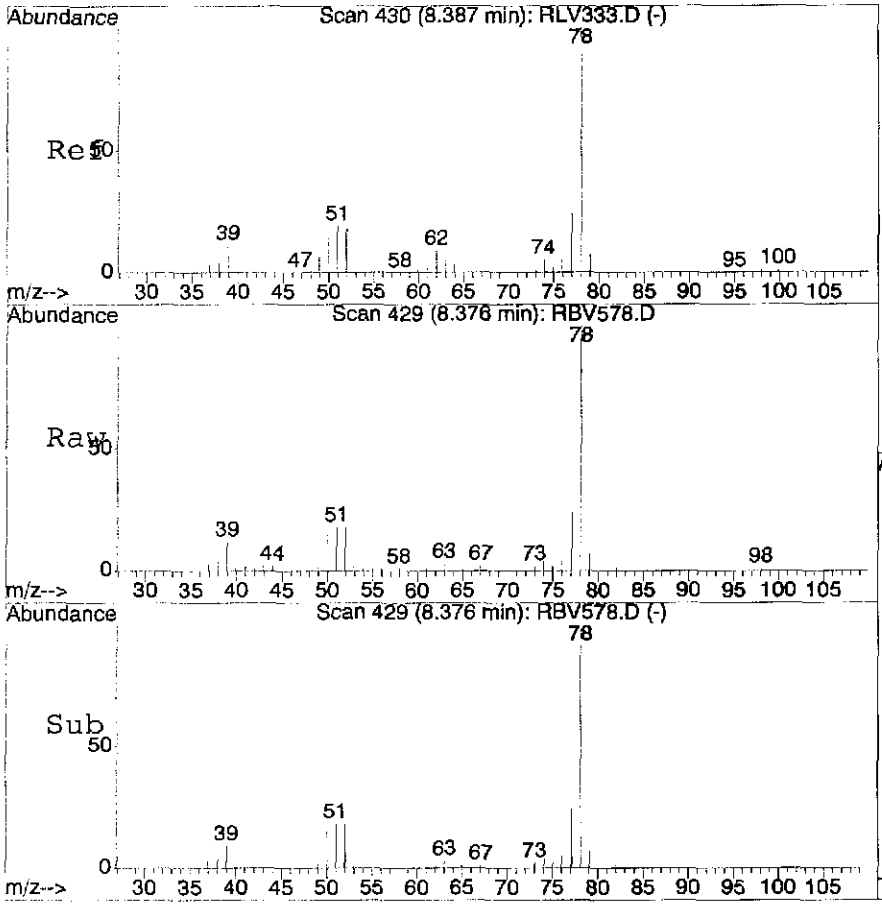


#31
cis-1,2-Dichloroethene
Concen: 4.93 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.03 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 96 Resp: 253129

Ion	Ratio	Lower	Upper
96	100		
61	136.5	123.3	183.3
98	66.3	33.4	93.4

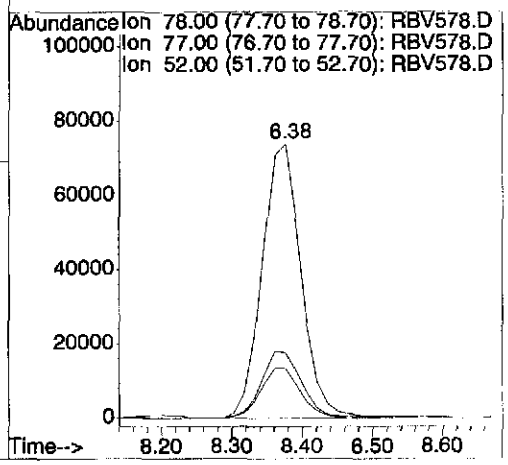


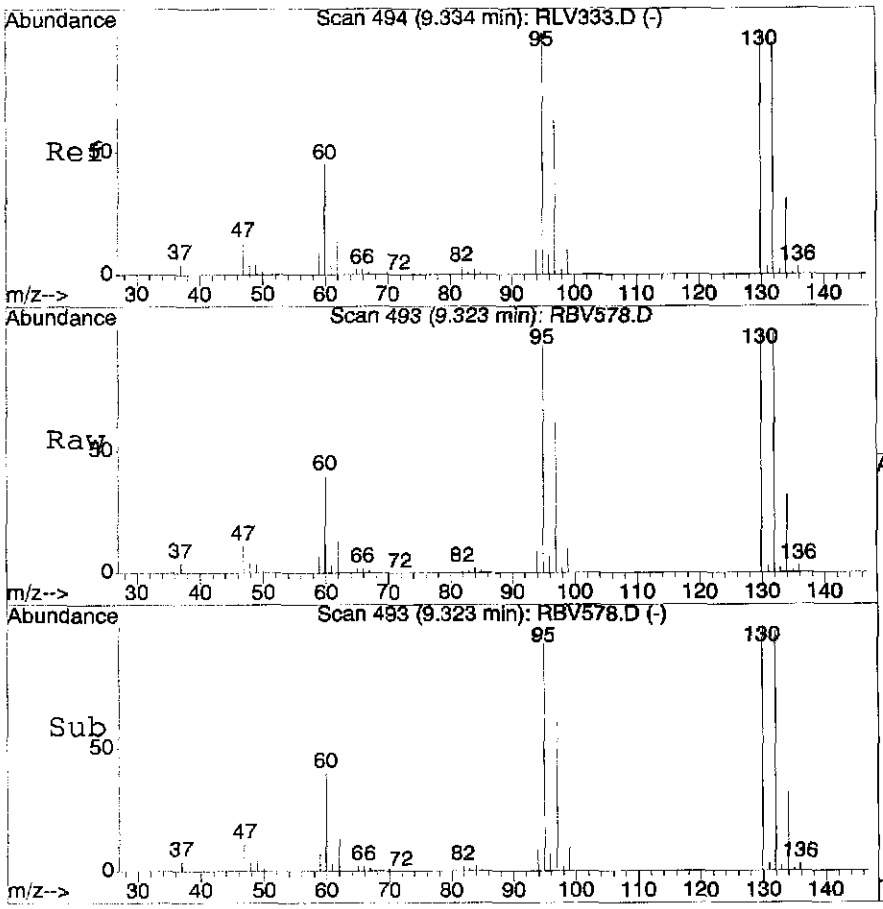


#45
Benzene
Concen: 1.52 ug/l
RT: 8.38 min Scan# 429
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 78 Resp: 284785

Ion	Ratio	Lower	Upper
78	100		
77	25.6	0.0	54.2
52	18.9	0.0	48.5

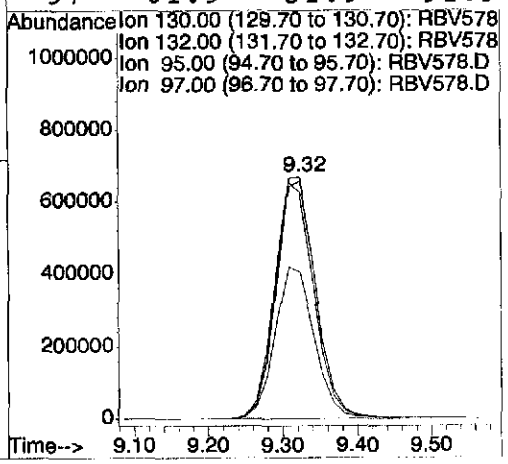


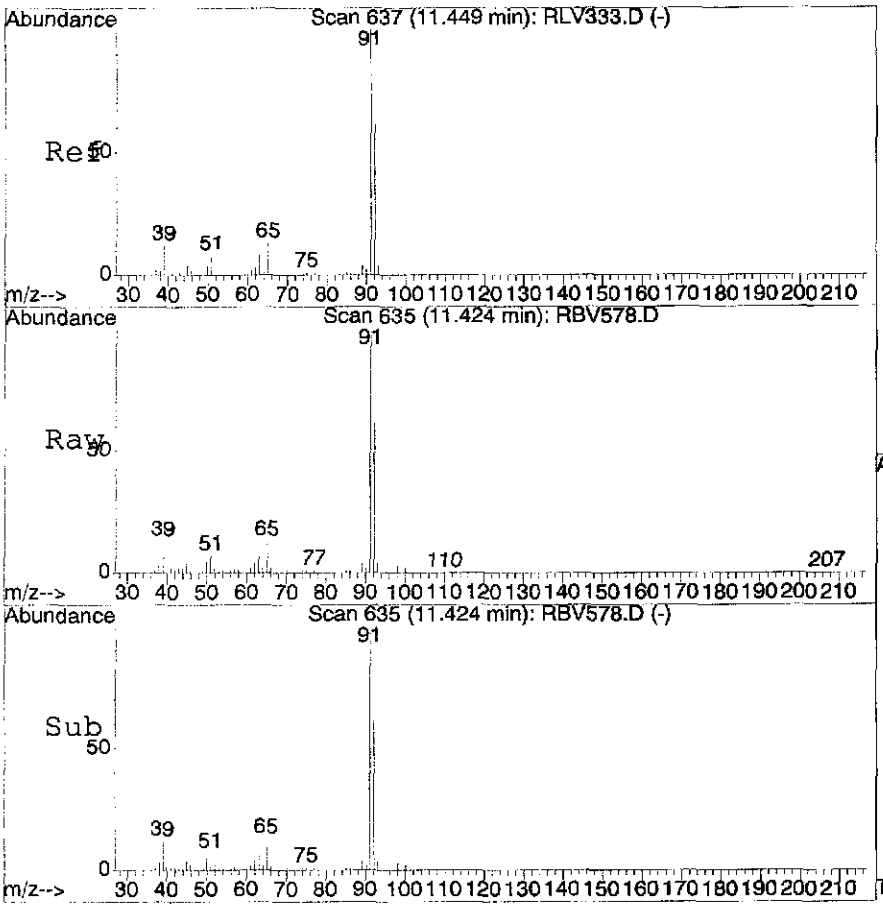


#46
Trichloroethene
Concen: 49.75 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion:130 Resp: 2475117

Ion	Ratio	Lower	Upper
130	100		
132	97.3	64.2	124.2
95	96.3	67.2	127.2
97	61.9	31.9	91.9

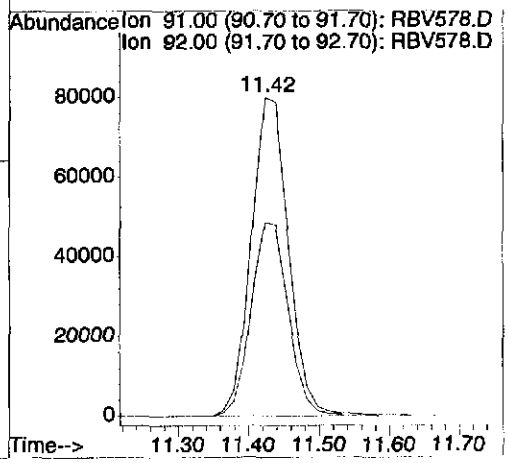


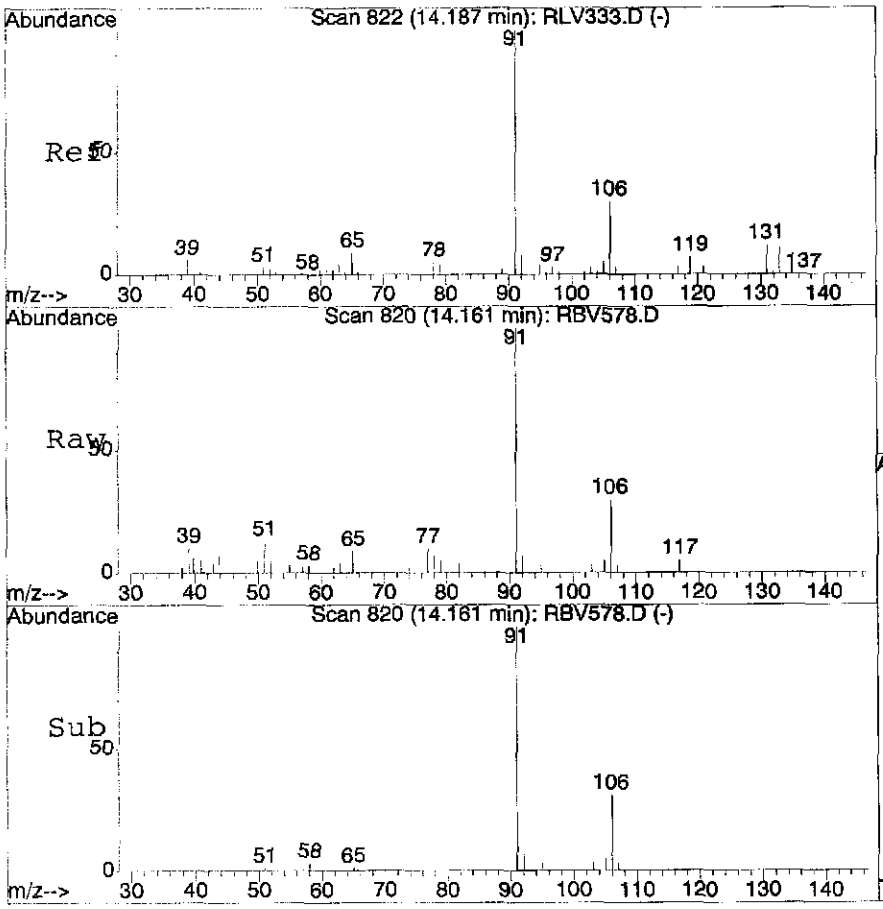


#56
Toluene
Concen: 1.53 ug/l
RT: 11.42 min Scan# 635
Delta R.T. -0.03 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 91 Resp: 293962

Ion	Ratio	Lower	Upper
91	100		
92	60.5	31.0	91.0

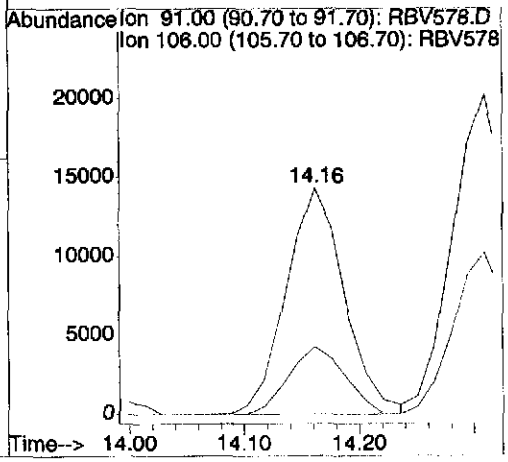


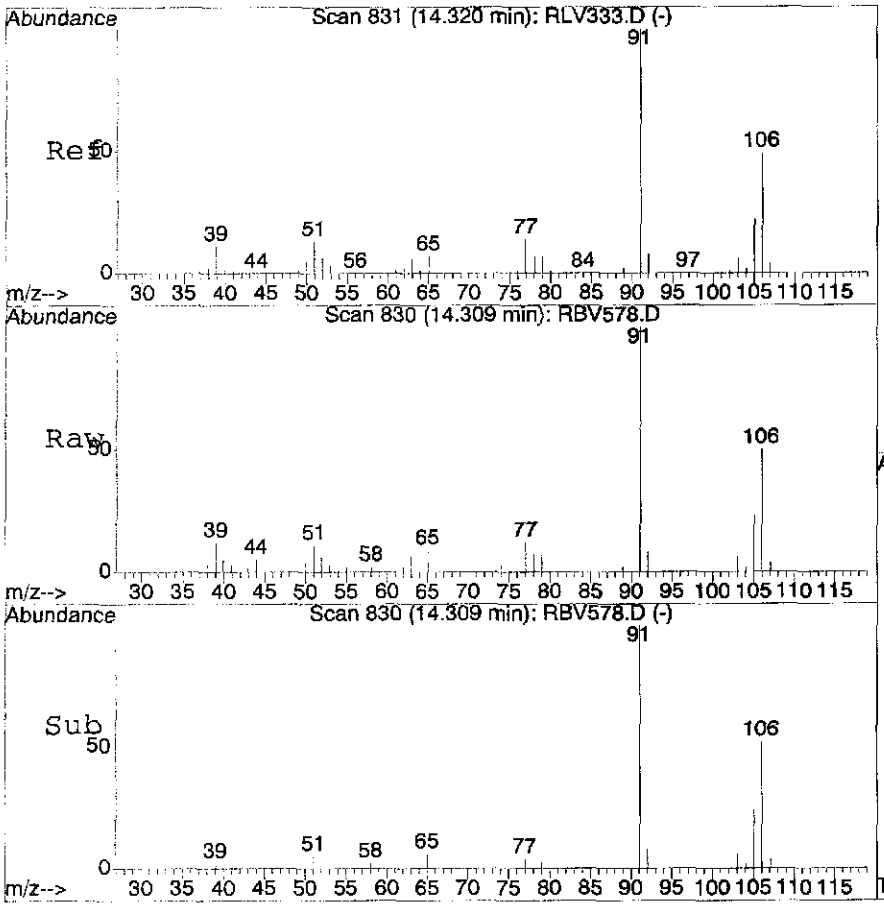


#68
Ethylbenzene
Concen: 0.23 ug/l
RT: 14.16 min Scan# 820
Delta R.T. -0.02 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 91 Resp: 50270

Ion	Ratio	Lower	Upper
91	100		
106	28.6	0.0	59.9

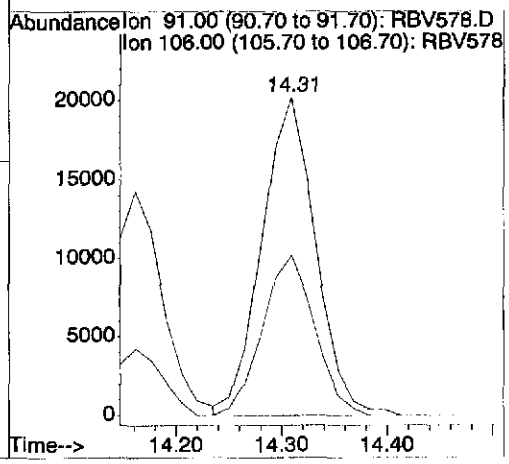


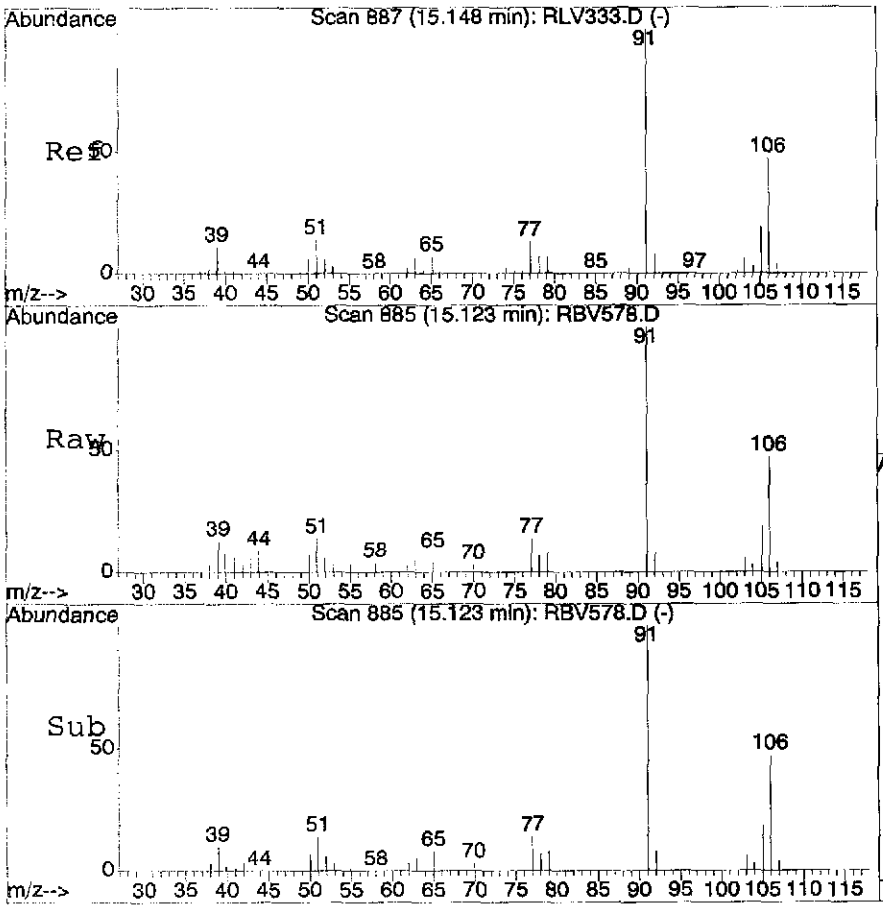


#69
m-Xylene & p-Xylene
Concen: 0.44 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 91 Resp: 71307

Ion	Ratio	Lower	Upper
91	100		
106	49.0	19.5	79.5

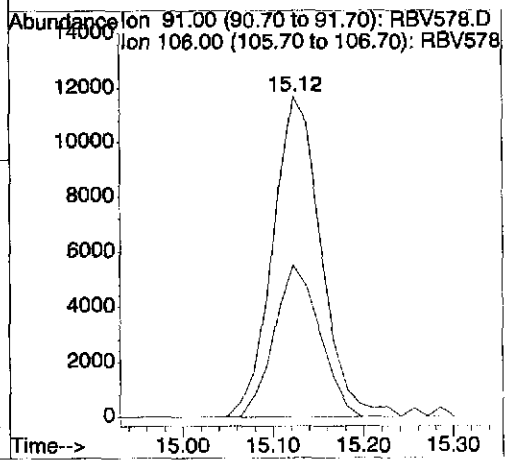




#70
o-Xylene
Concen: 0.28 ug/l
RT: 15.12 min Scan# 885
Delta R.T. -0.03 min
Lab File: RBV578.D
Acq: 22 Feb 2011 12:50 pm

Tgt Ion: 91 Resp: 43277

Ion	Ratio	Lower	Upper
91	100		
106	44.6	17.4	77.4



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 12:19
Sample ID:	SSI-D-002	Date Analyzed:	02/22/11 12:19
Lab Samp ID:	B186-10	Dilution Factor:	1
Lab File ID:	RBV577	Matrix	: WATER
Ext Btch ID:	V001B28	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	0.20J	1.0	0.20
1,1-DICHLOROETHENE	0.25J	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	6.9J	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	1.2	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	4.9	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.22J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.0	1.0	0.20
TRANS-1,2-DICHLOROETHENE	0.41J	1.0	0.20
TRICHLOROETHENE	49	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.6	10.00	106	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.99	10.00	99.9	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV577.D
Acq On : 22 Feb 2011 12:19 pm
Sample : 11B186-10 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:08 2011

Vial: 12
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1272329	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1134696	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	384317	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	380722	9.99	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	99.90%	
40) 1,2-Dichloroethane-d4	8.20	65	317284	10.64	ug/l	0.00
Spiked Amount 10.000			Recovery	=	106.40%	
55) Toluene-d8	11.29	98	1516911	10.26	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.60%	
76) 4-Bromofluorobenzene	16.29	95	463532	10.64	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	106.40%	
Target Compounds						Qvalue
13) Acetone	4.22	43	108000	21.52	ug/l	61
14) 1,1-Dichloroethene	4.40	61	14749	0.25	ug/l	95
15) tert-Butyl alcohol	4.59	59	11559	6.19	ug/l #	1
23) trans-1,2-Dichloroethene	5.43	61	27113	0.41	ug/l	99
26) 1,1-Dichloroethane	6.03	63	16102	0.20	ug/l	94
29) 2-Butanone	6.66	43	64981	6.91	ug/l	100
31) cis-1,2-Dichloroethene	6.90	96	229143	4.86	ug/l	89
45) Benzene	8.36	78	219405	1.24	ug/l	99
46) Trichloroethene	9.32	130	2283446	48.75	ug/l	98
56) Toluene	11.43	91	188678	1.05	ug/l	99
69) m-Xylene & p-Xylene	14.31	91	46195	0.31	ug/l	98
70) o-Xylene	15.12	91	32026	0.22	ug/l	96

(#) = qualifier out of range (m) = manual integration

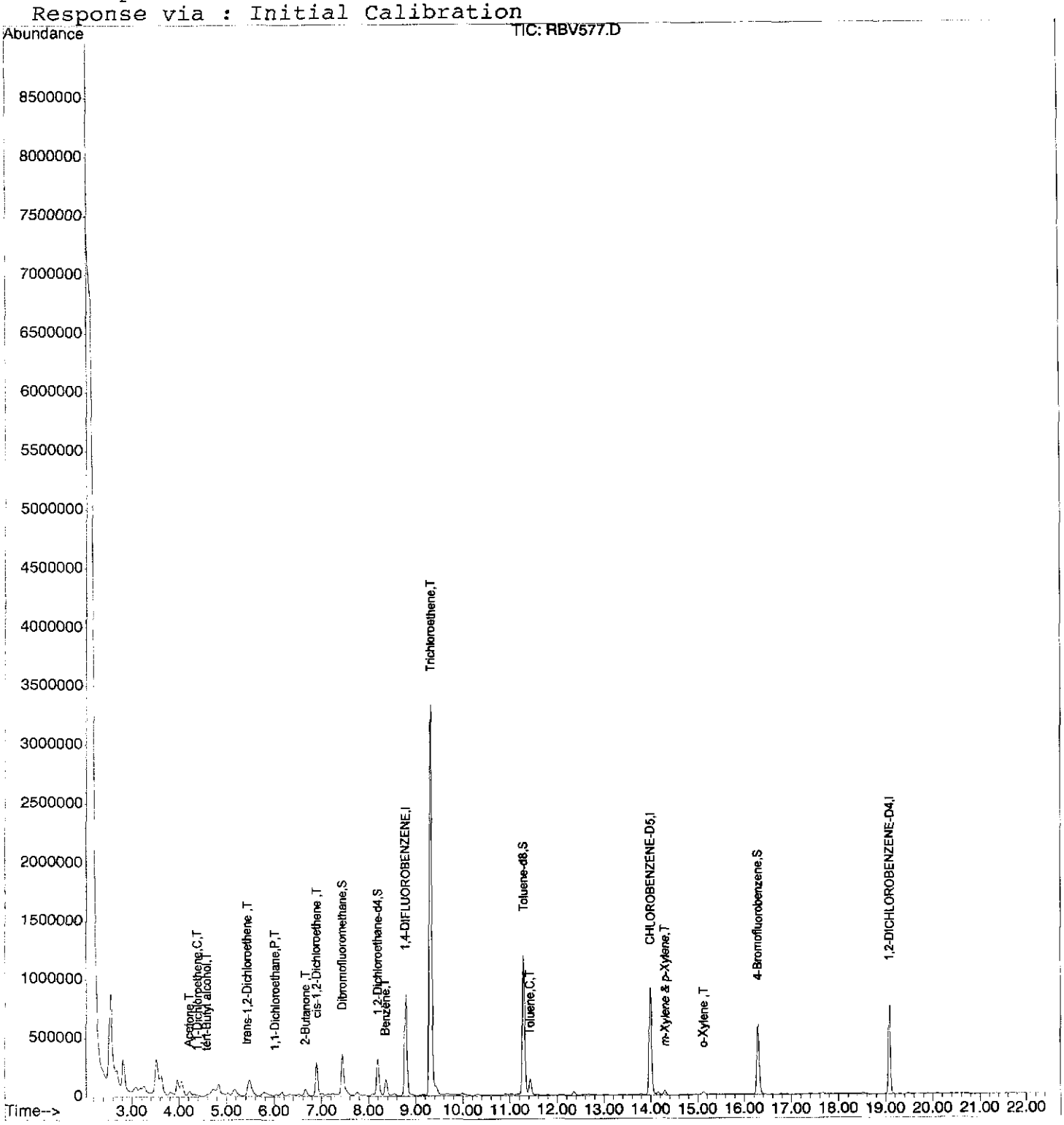
Quantitation Report

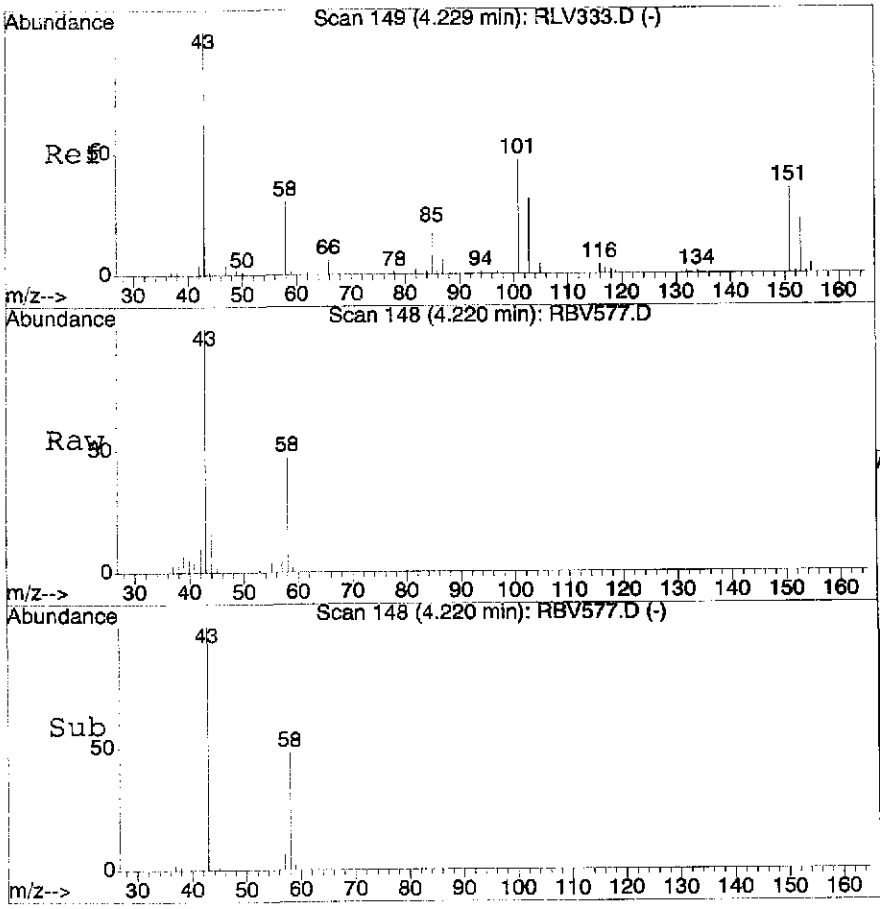
Data File : D:\HPCHEM\1\DATA\11B22\RBV577.D
Acq On : 22 Feb 2011 12:19 pm
Sample : 11B186-10 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:08 2011

Vial: 12
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

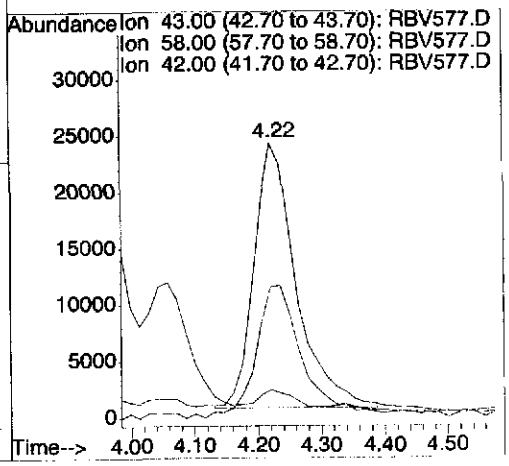


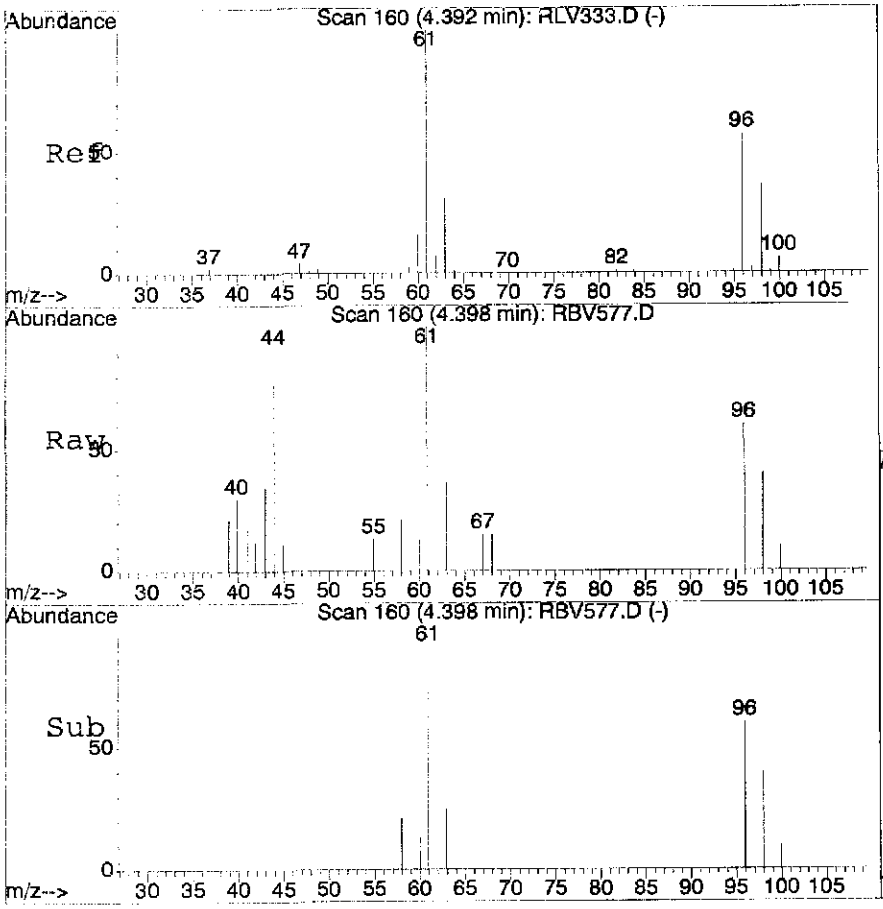


#13
Acetone
Concen: 21.52 ug/l
RT: 4.22 min Scan# 148
Delta R.T. -0.01 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 43 Resp: 108000

Ion	Ratio	Lower	Upper
43	100		
58	57.1	1.4	61.4
42	9.5	0.0	37.2

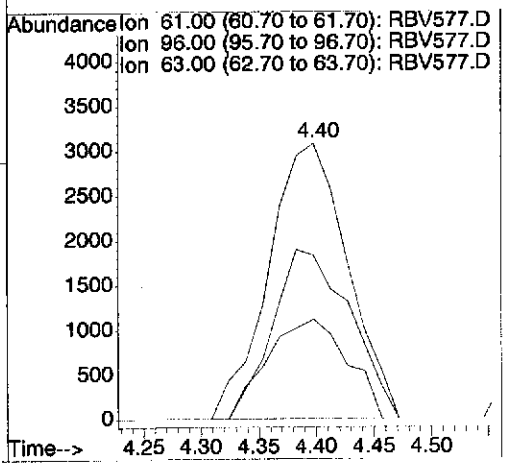


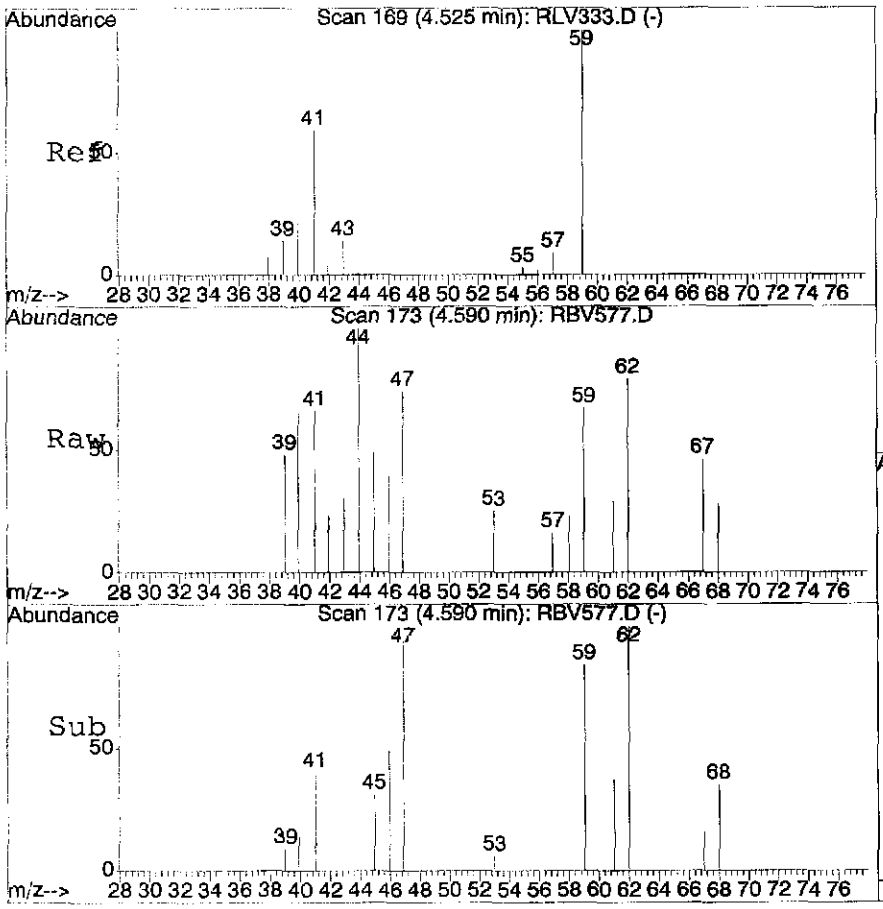


#14
1,1-Dichloroethene
Concen: 0.25 ug/l
RT: 4.40 min Scan# 160
Delta R.T. 0.01 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 61 Resp: 14749

Ion	Ratio	Lower	Upper
61	100		
96	60.3	27.7	87.7
63	36.7	2.0	62.0

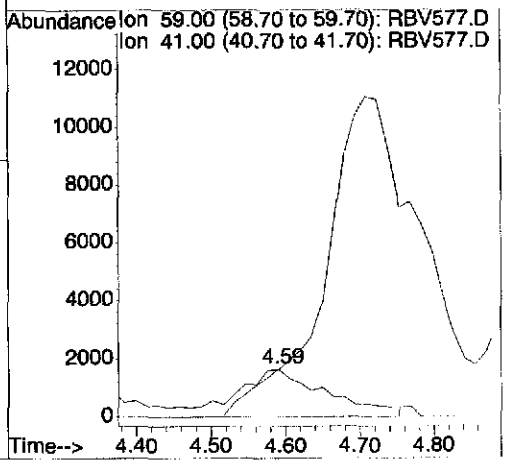


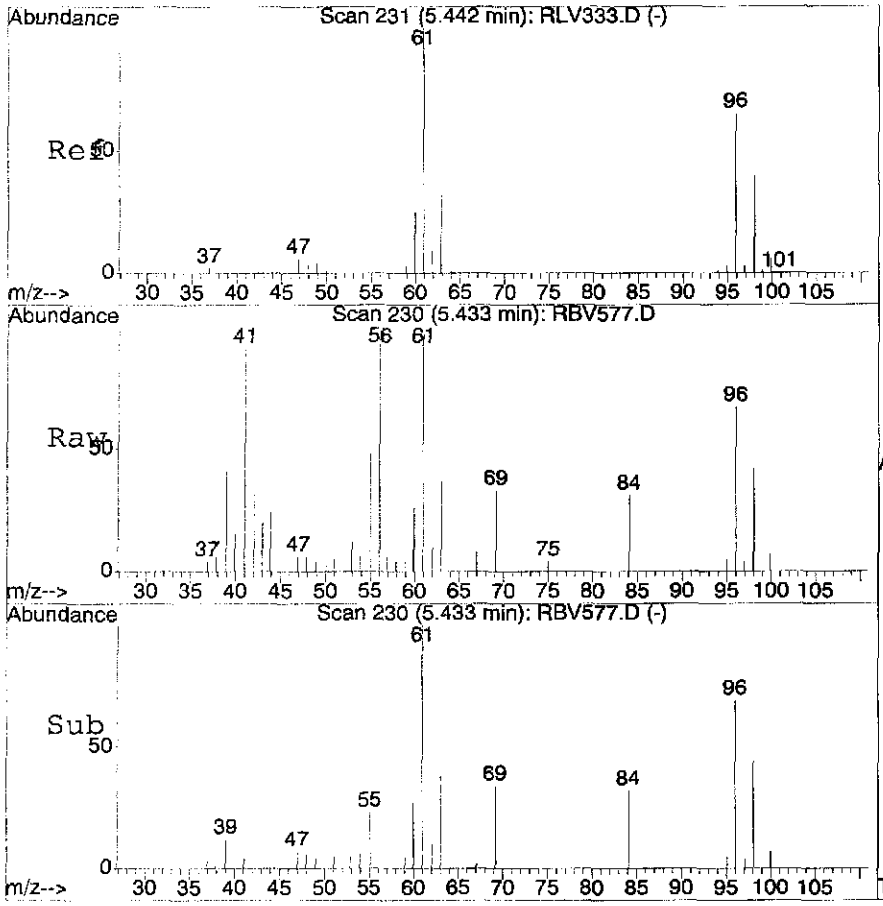


#15
tert-Butyl alcohol
Concen: 6.19 ug/l
RT: 4.59 min Scan# 173
Delta R.T. 0.07 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 59 Resp: 11559

Ion	Ratio	Lower	Upper
59	100		
41	589.5	217.5	277.5#

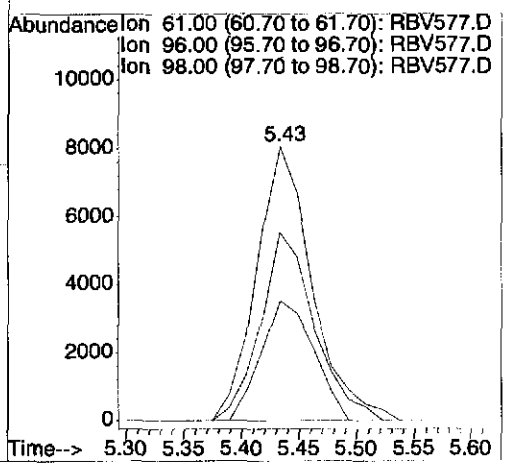


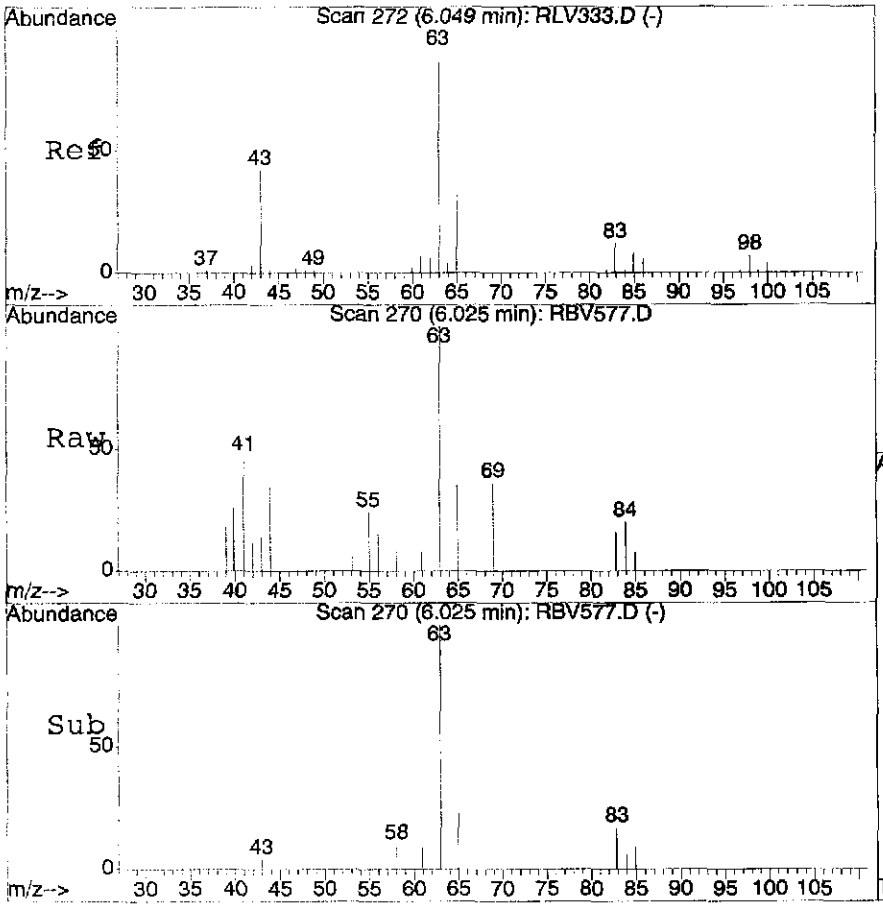


#23
trans-1,2-Dichloroethene
Concen: 0.41 ug/l
RT: 5.43 min Scan# 230
Delta R.T. -0.01 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 61 Resp: 27113

Ion	Ratio	Lower	Upper
61	100		
96	66.7	36.0	96.0
98	41.3	11.6	71.6

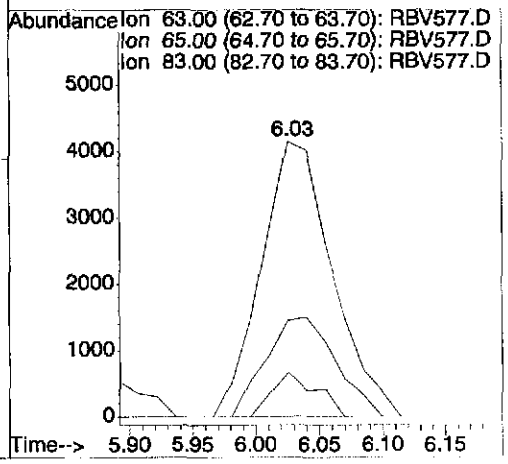


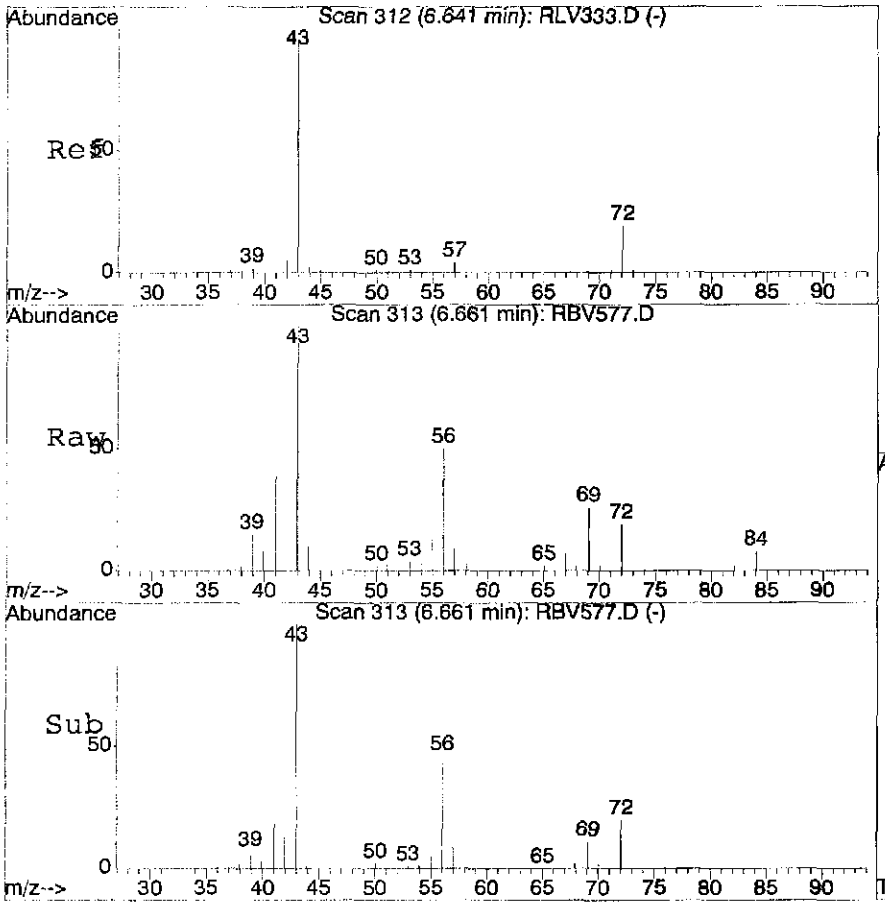


#26
1,1-Dichloroethane
Concen: 0.20 ug/l
RT: 6.03 min Scan# 270
Delta R.T. -0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 63 Resp: 16102

Ion	Ratio	Lower	Upper
63	100		
65	35.5	2.3	62.3
83	10.0	0.0	42.2

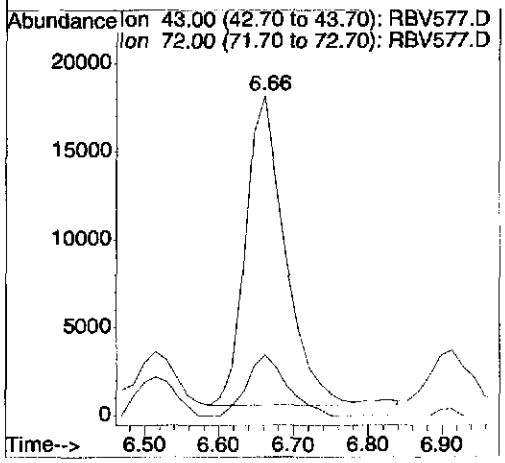


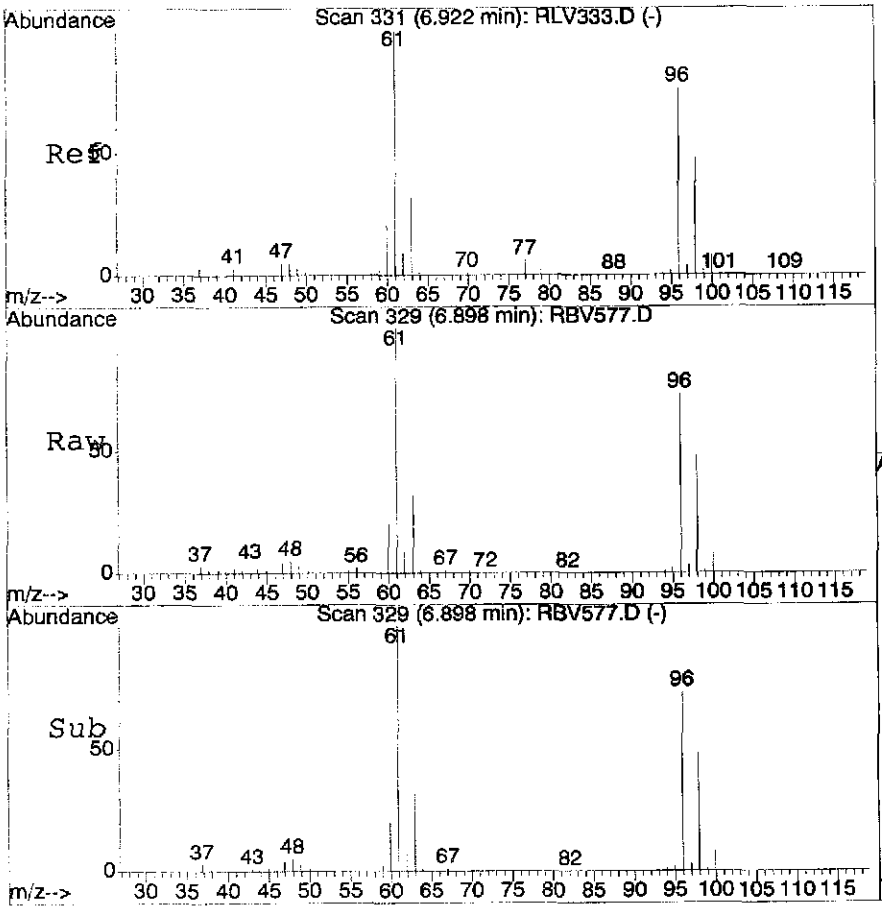


#29
2-Butanone
Concen: 6.91 ug/l
RT: 6.66 min Scan# 313
Delta R.T. 0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 43 Resp: 64981

Ion	Ratio	Lower	Upper
43	100		
72	19.8	0.0	50.0

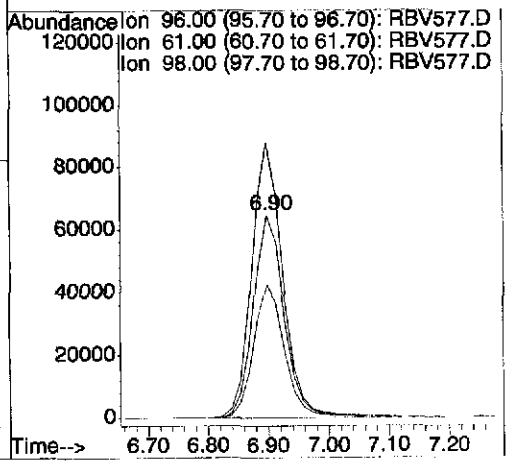


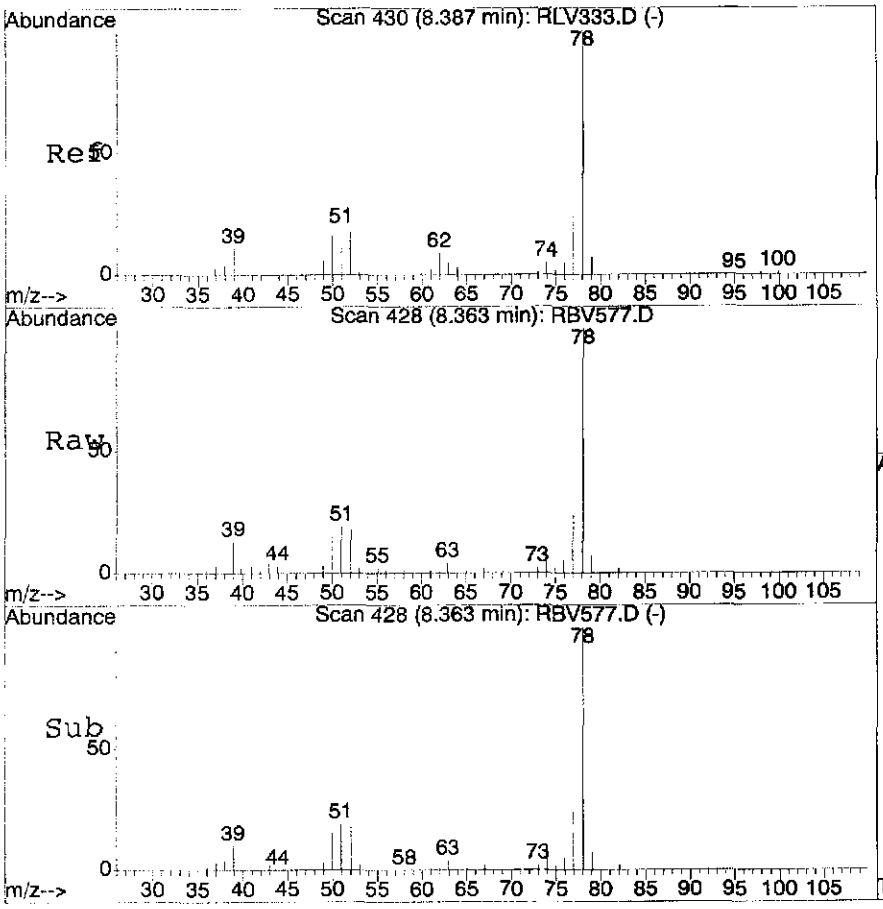


#31
cis-1,2-Dichloroethene
Concen: 4.86 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 96 Resp: 229143

Ion	Ratio	Lower	Upper
96	100		
61	136.1	123.3	183.3
98	66.3	33.4	93.4

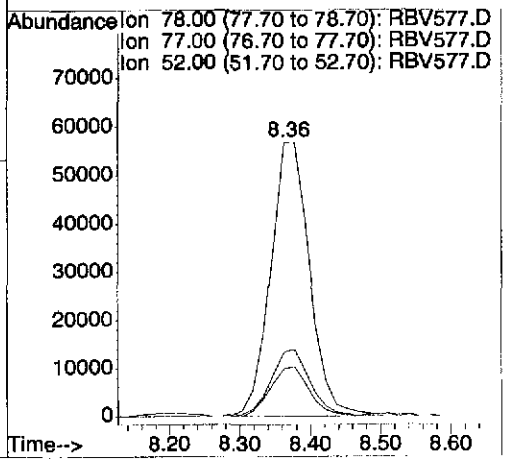


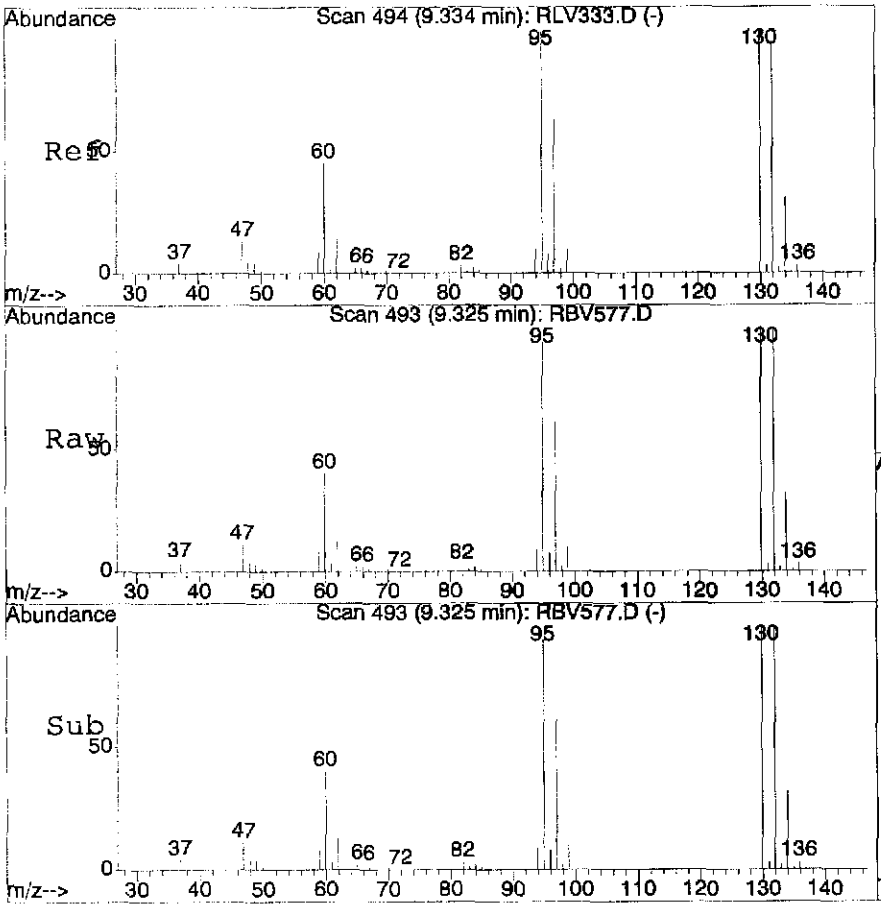


#45
Benzene
Concen: 1.24 ug/l
RT: 8.36 min Scan# 428
Delta R.T. -0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 78 Resp: 219405

Ion	Ratio	Lower	Upper
78	100		
77	24.2	0.0	54.2
52	17.9	0.0	48.5

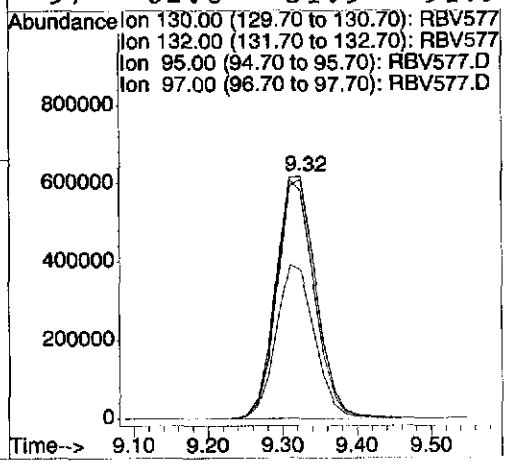


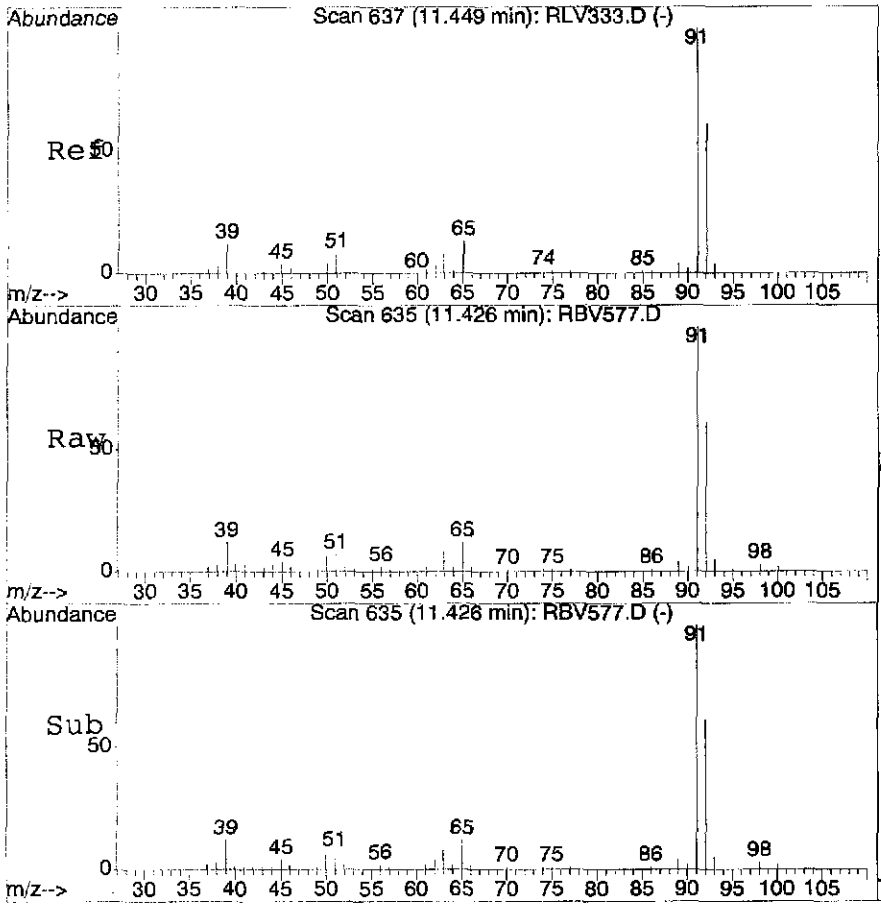


#46
Trichloroethene
Concen: 48.75 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion:130 Resp: 2283446

Ion	Ratio	Lower	Upper
130	100		
132	97.6	64.2	124.2
95	96.8	67.2	127.2
97	62.6	31.9	91.9

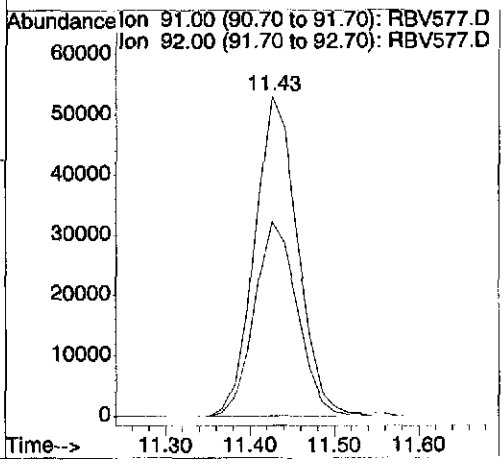


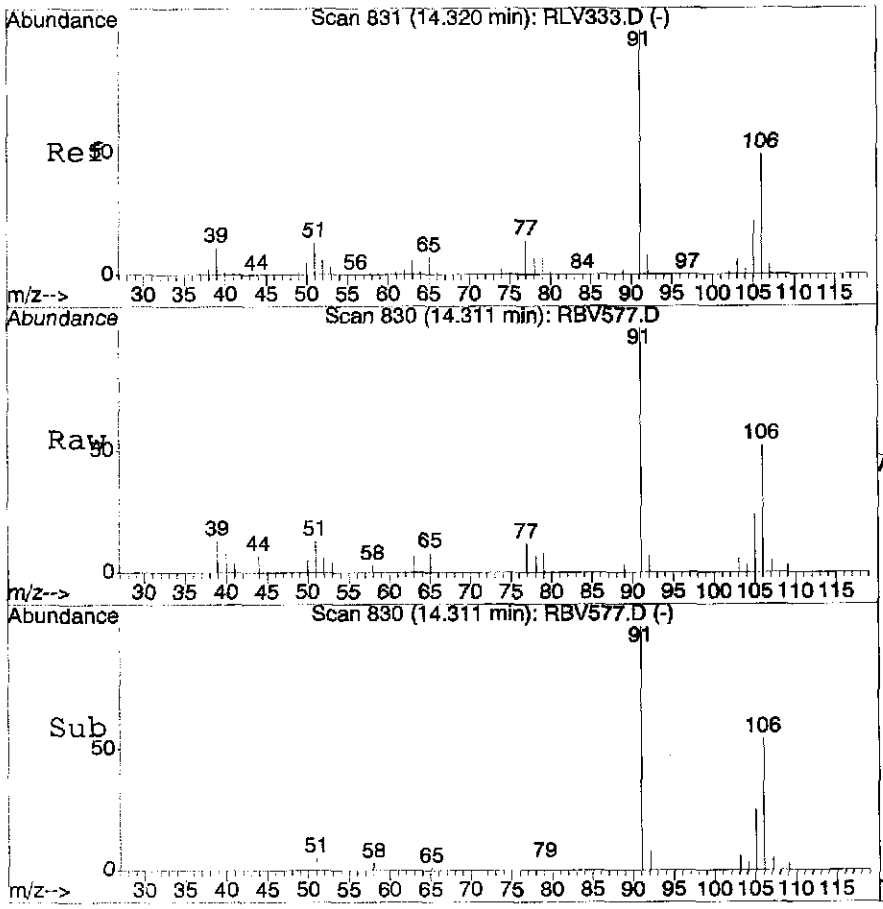


#56
Toluene
Concen: 1.05 ug/l
RT: 11.43 min Scan# 635
Delta R.T. -0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 91 Resp: 188678

Ion	Ratio	Lower	Upper
91	100		
92	60.5	31.0	91.0

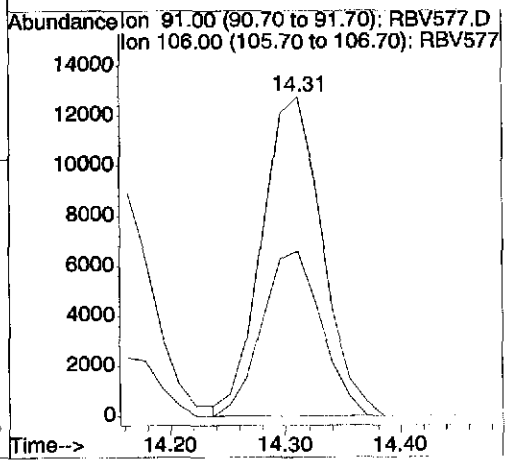


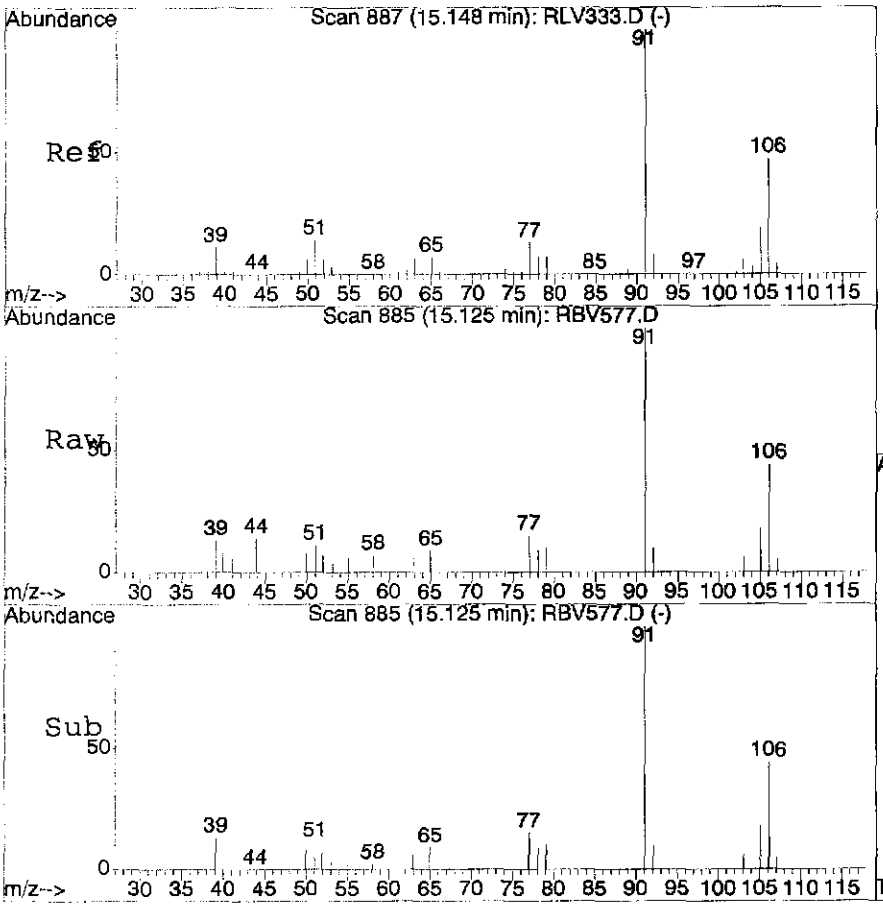


#69
m-Xylene & p-Xylene
Concen: 0.31 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 91 Resp: 46195

Ion	Ratio	Lower	Upper
91	100		
106	50.8	19.5	79.5

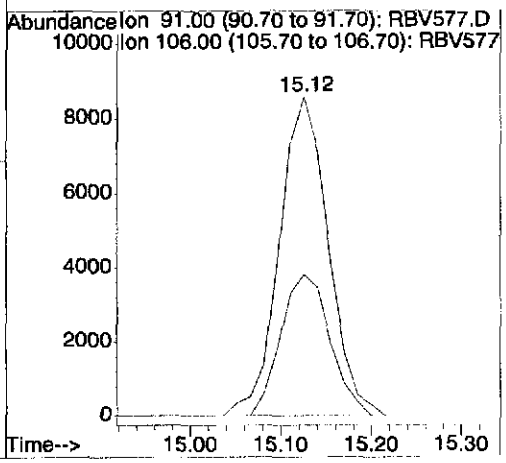




#70
o-Xylene
Concen: 0.22 ug/l
RT: 15.12 min Scan# 885
Delta R.T. -0.02 min
Lab File: RBV577.D
Acq: 22 Feb 2011 12:19 pm

Tgt Ion: 91 Resp: 32026

Ion	Ratio	Lower	Upper
91	100		
106	44.6	17.4	77.4



METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 22:57
Sample ID:	SSI-HP-009	Date Analyzed:	02/22/11 22:57
Lab Samp ID:	B186-11	Dilution Factor:	1
Lab File ID:	RBV597	Matrix	: WATER
Ext Btch ID:	VO01B29	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.38J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	0.26J	1.0	0.20
M/P-XYLENES	1.2J	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	0.57J	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	1.2	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.25J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	0.34J	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.90	10.00	99.0	70-120
4-BROMOFLUOROBENZENE	10.3	10.00	103	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.70	10.00	97.0	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV597.D
Acq On : 22 Feb 2011 10:57 pm
Sample : 11B186-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:32 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1396797	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.99	117	1259867	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	431798	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	405774	9.70	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	97.00%	
40) 1,2-Dichloroethane-d4	8.19	65	324105	9.90	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	99.00%	
55) Toluene-d8	11.29	98	1683692	10.26	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	102.60%	
76) 4-Bromofluorobenzene	16.29	95	506538	10.34	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	103.40%	
Target Compounds						Qvalue
13) Acetone	4.23	43	36437	6.61	ug/l	63
20) Carbon disulfide	5.06	76	38679m	0.38	ug/l	
46) Trichloroethene	9.32	130	13187	0.25	ug/l	95
56) Toluene	11.43	91	235464	1.18	ug/l	99
68) Ethylbenzene	14.16	91	59661	0.26	ug/l	98
69) m-Xylene & p-Xylene	14.31	91	193570	1.15	ug/l	100
70) o-Xylene	15.12	91	92731	0.57	ug/l	96
85) 1,2,4-Trimethylbenzene	17.66	105	50162	0.34	ug/l	90
95) Naphthalene	21.69	128	10118	0.22	ug/l #	68

(#) = qualifier out of range (m) = manual integration

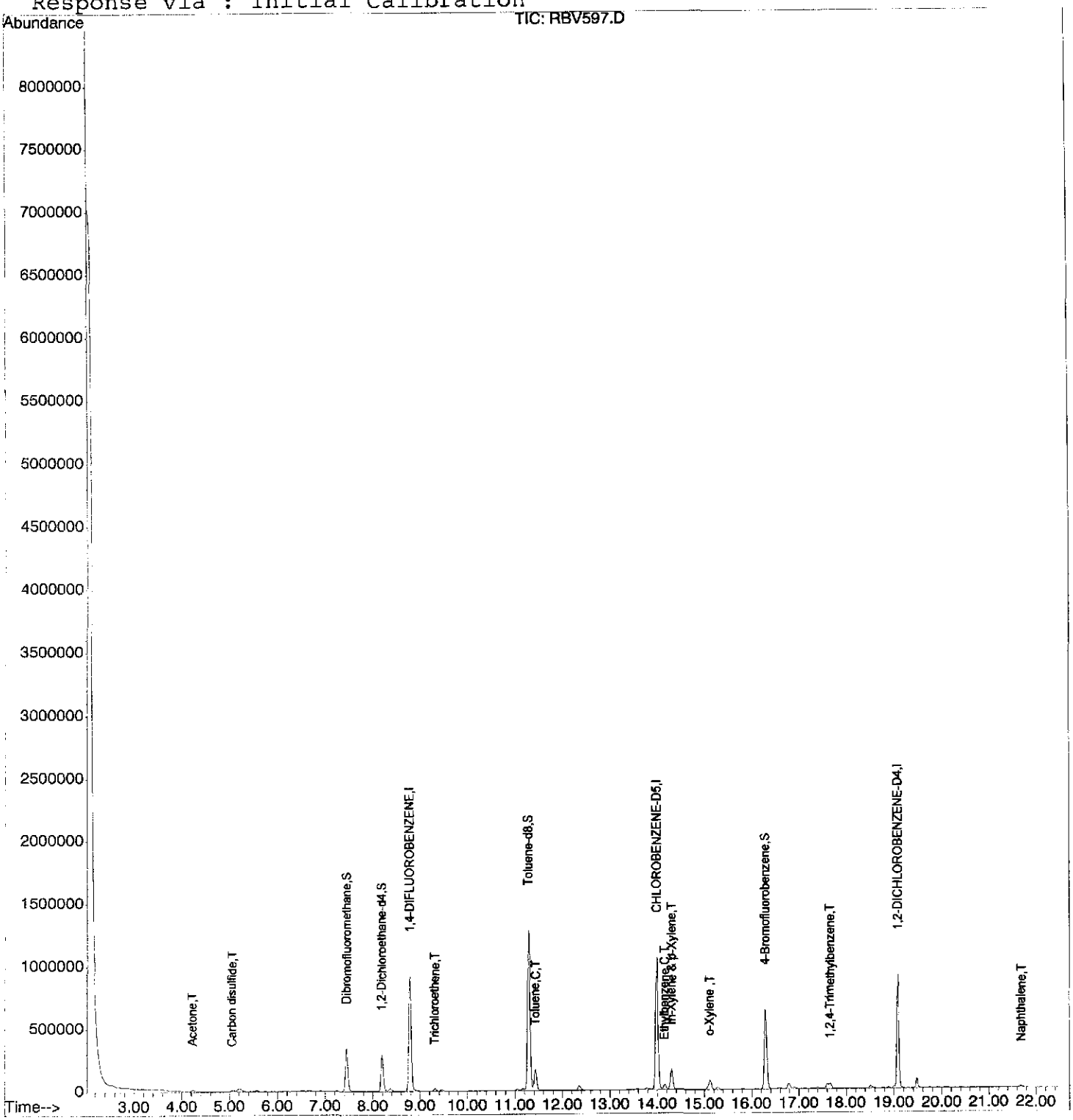
Quantitation Report

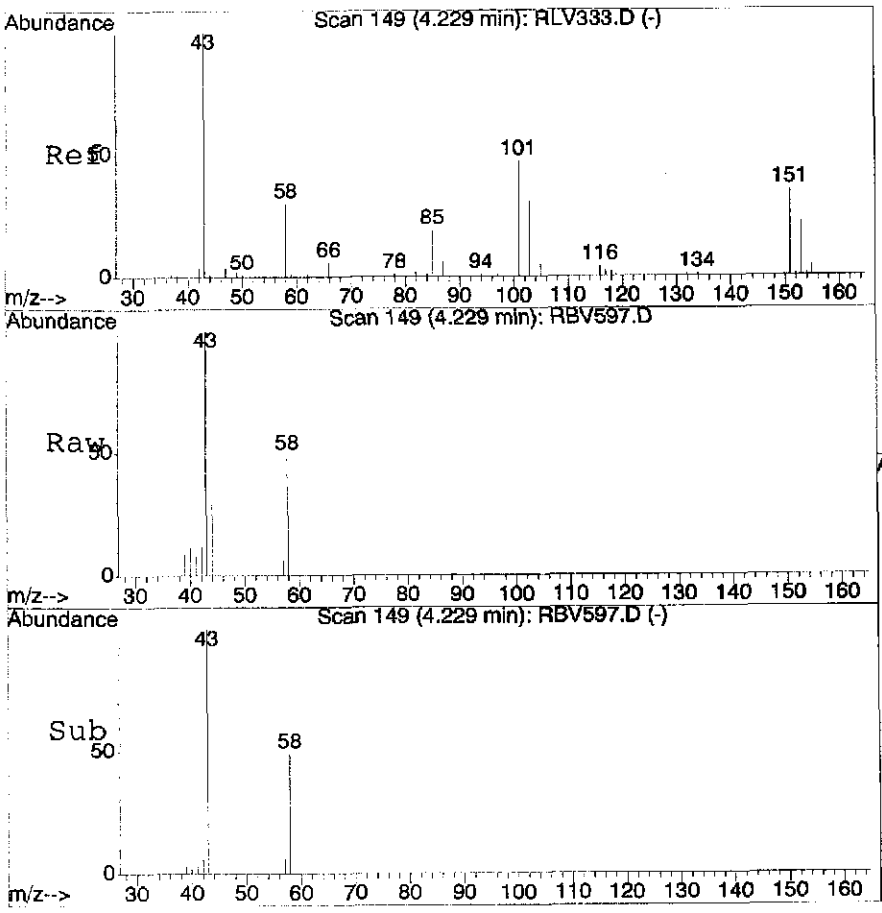
Data File : D:\HPCHEM\1\DATA\11B22\RBV597.D
Acq On : 22 Feb 2011 10:57 pm
Sample : 11B186-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:32 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

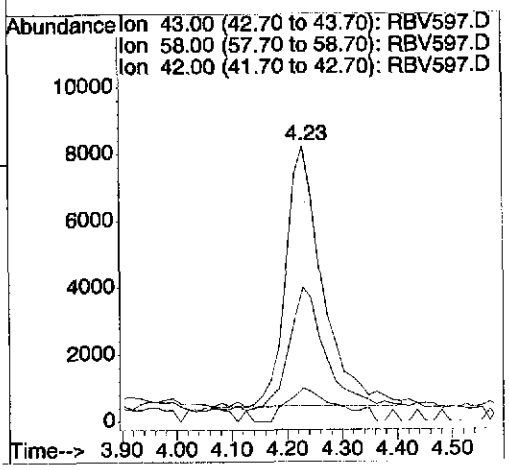


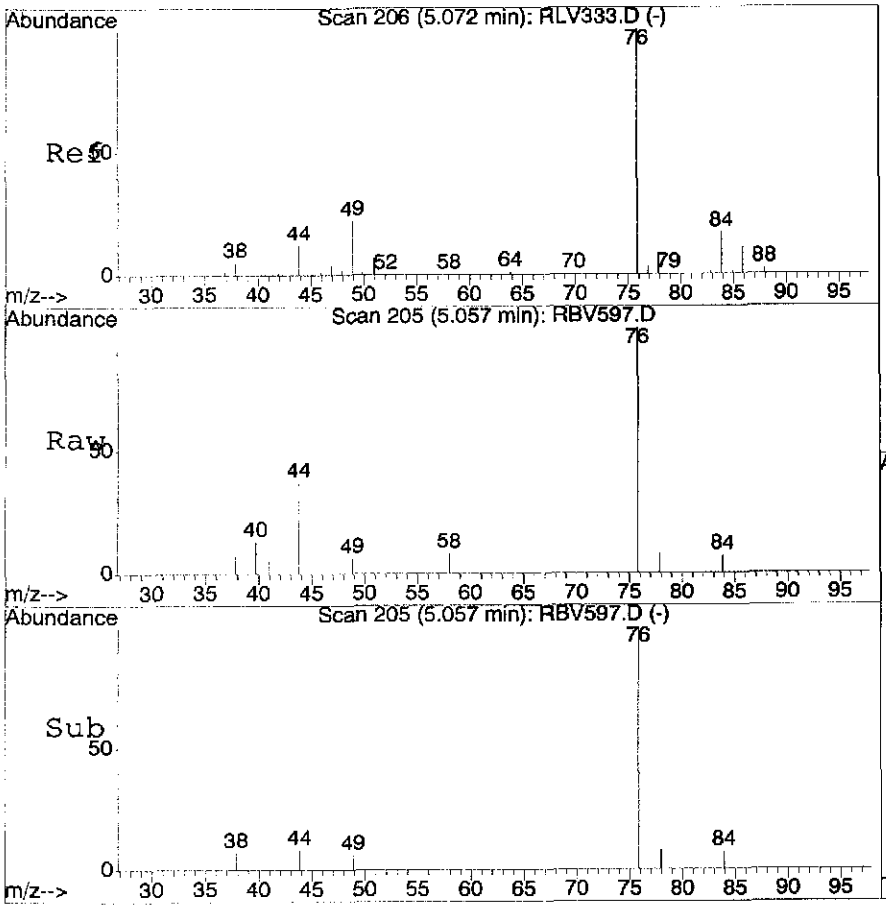


#13
Acetone
Concen: 6.61 ug/l
RT: 4.23 min Scan# 149
Delta R.T. 0.00 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 43 Resp: 36437

Ion	Ratio	Lower	Upper
43	100		
58	53.2	1.4	61.4
42	16.9	0.0	37.2

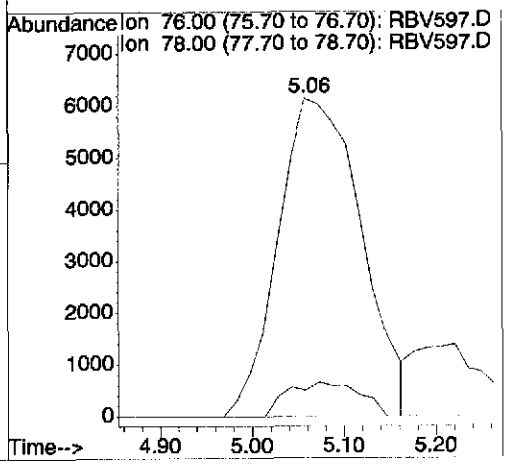


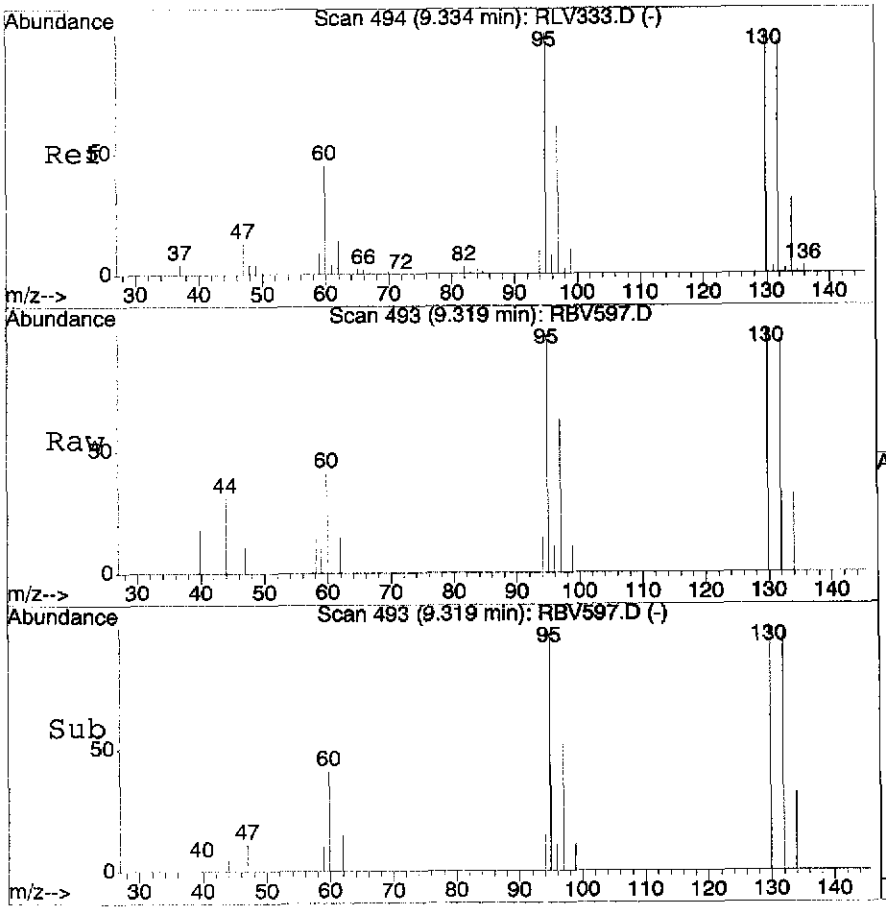


#20
Carbon disulfide
Concen: 0.38 ug/l m
RT: 5.06 min Scan# 205
Delta R.T. -0.01 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 76 Resp: 38679

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	38.9

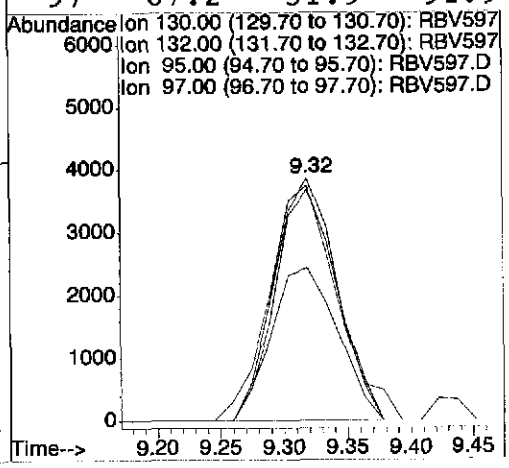


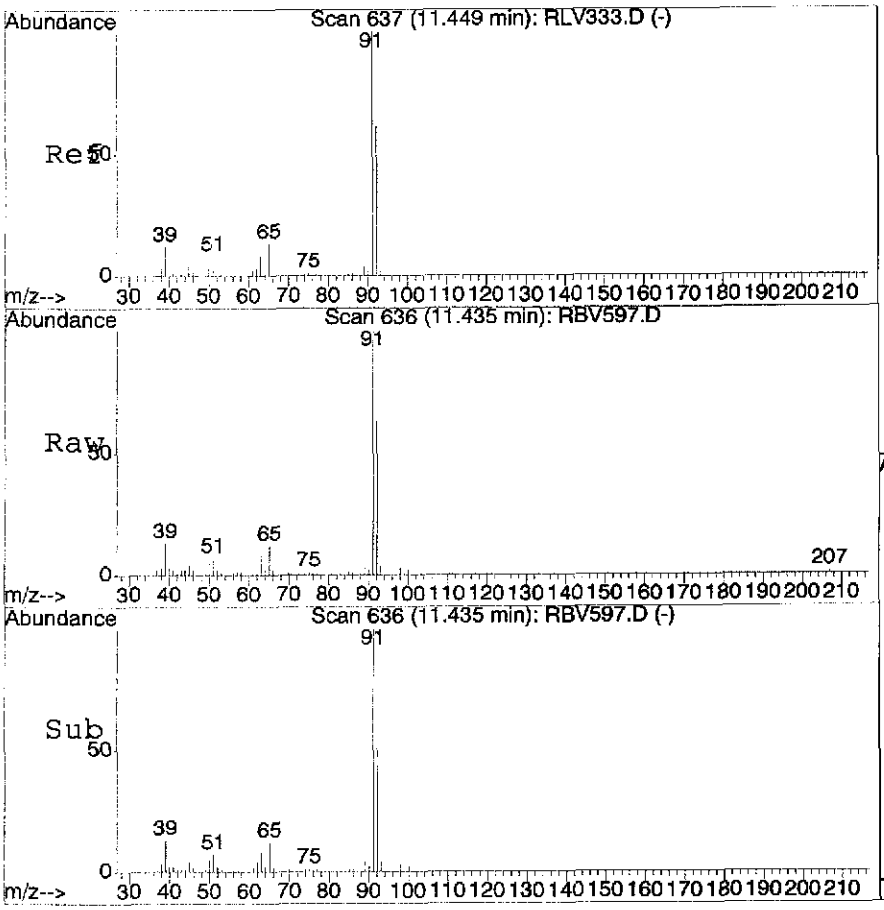


#46
Trichloroethene
Concen: 0.25 ug/l
RT: 9.32 min Scan# 493
Delta R.T. -0.01 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion:130 Resp: 13187

Ion	Ratio	Lower	Upper
130	100		
132	95.1	64.2	124.2
95	105.0	67.2	127.2
97	67.2	31.9	91.9

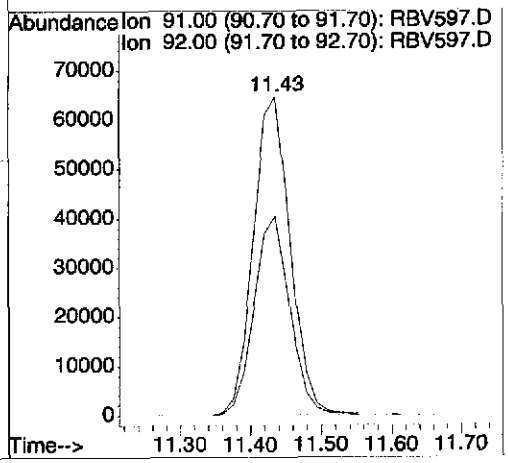


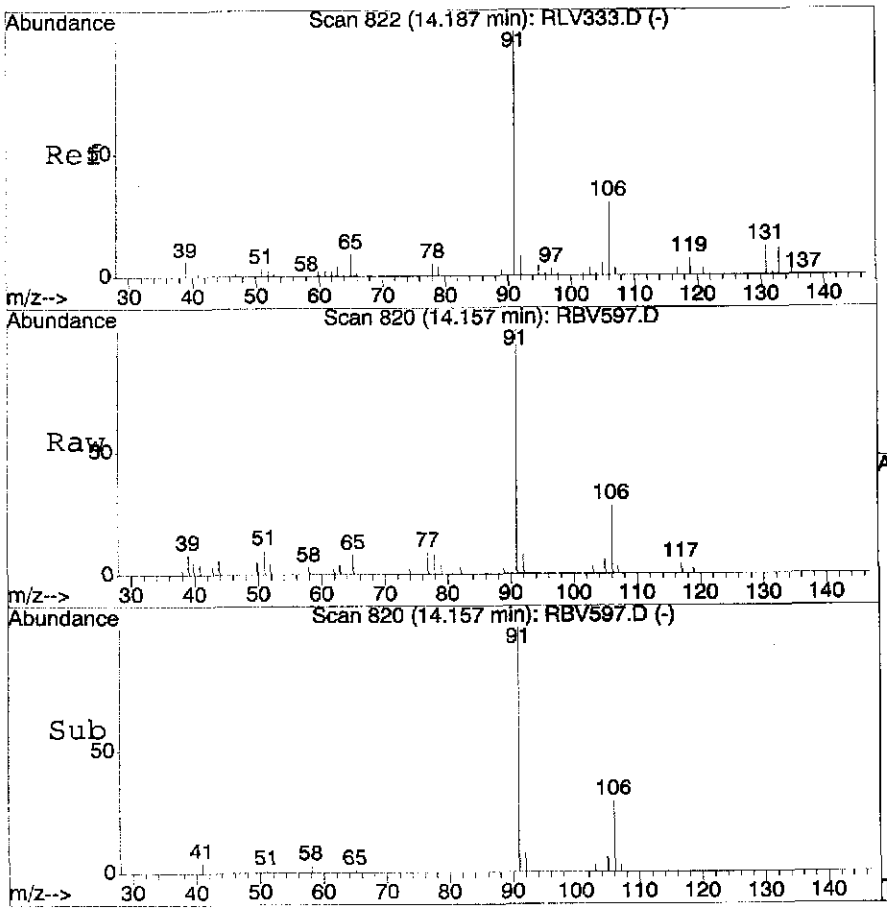


#56
Toluene
Concen: 1.18 ug/l
RT: 11.43 min Scan# 636
Delta R.T. -0.01 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 91 Resp: 235464

Ion	Ratio	Lower	Upper
91	100		
92	60.5	31.0	91.0

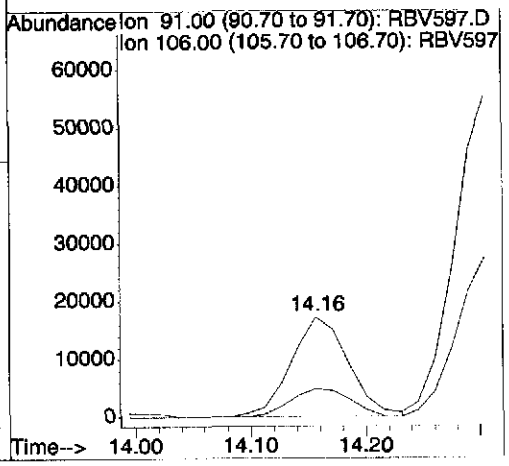


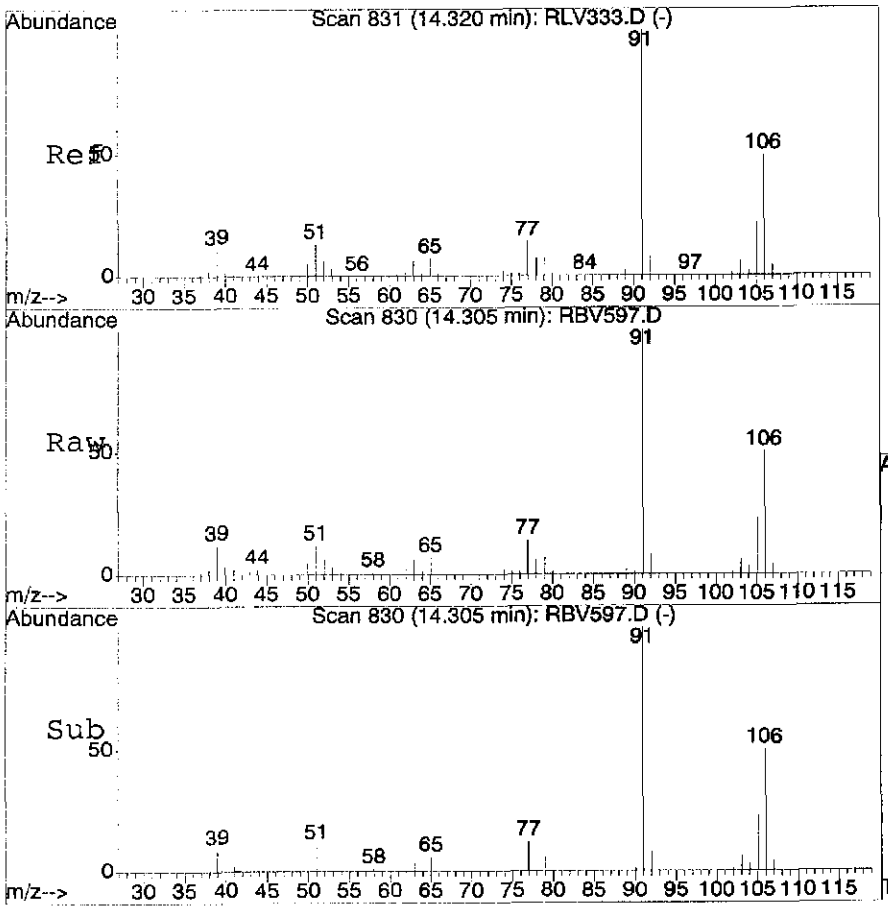


#68
Ethylbenzene
Concen: 0.26 ug/l
RT: 14.16 min Scan# 820
Delta R.T. -0.03 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 91 Resp: 59661

Ion	Ratio	Lower	Upper
91	100		
106	29.1	0.0	59.9

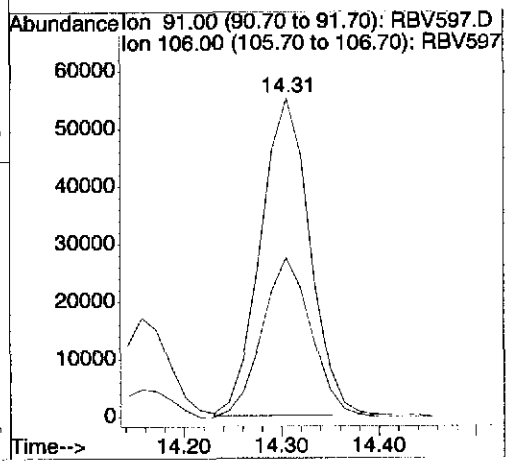


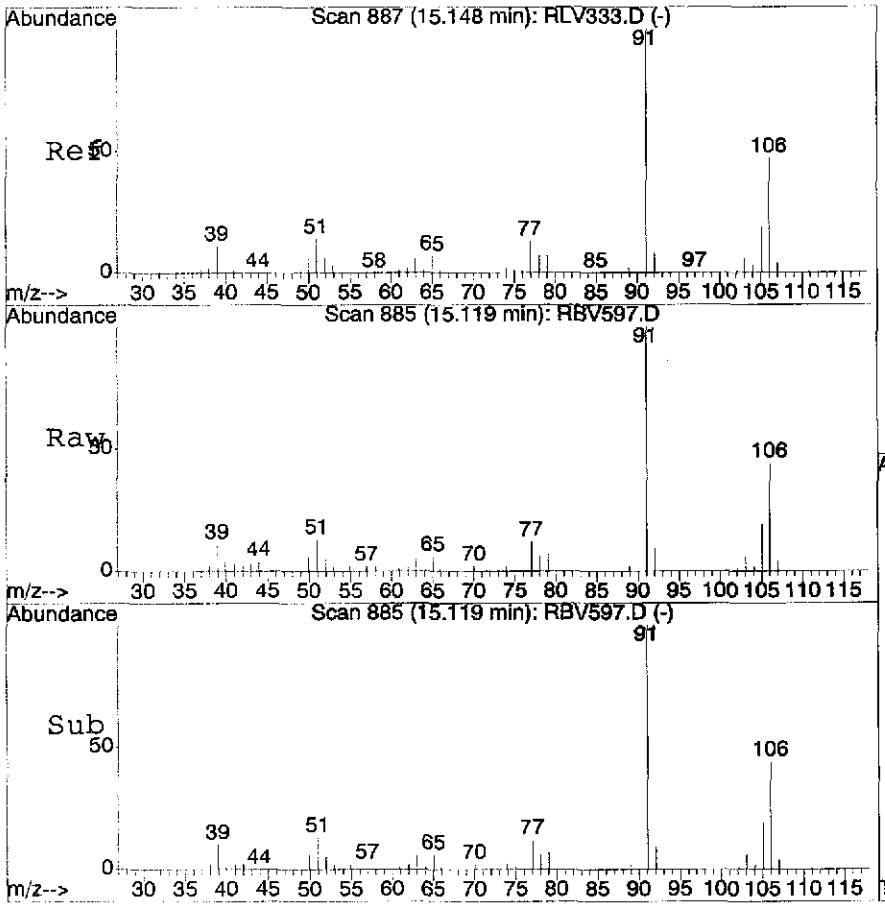


#69
m-Xylene & p-Xylene
Concen: 1.15 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 91 Resp: 193570

Ion	Ratio	Lower	Upper
91	100		
106	49.6	19.5	79.5

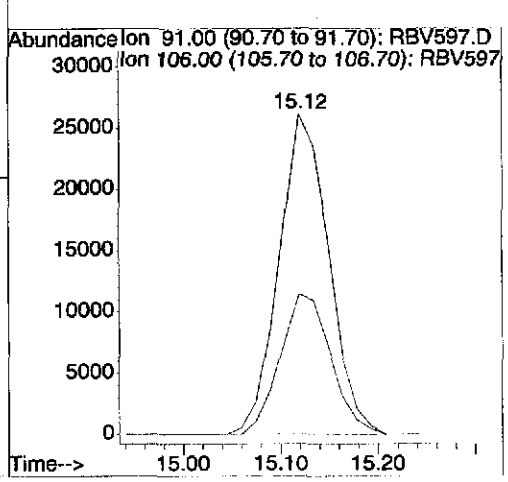


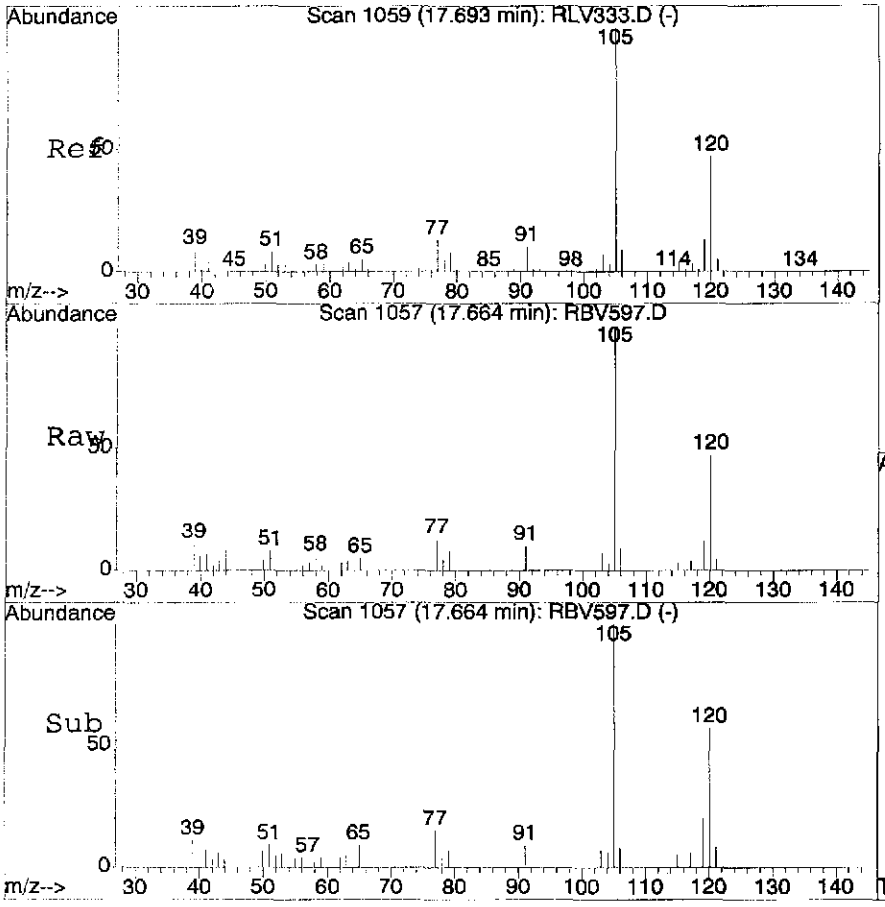


#70
o-Xylene
Concen: 0.57 ug/l
RT: 15.12 min Scan# 885
Delta R.T. -0.03 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion: 91 Resp: 92731

Ion	Ratio	Lower	Upper
91	100		
106	44.8	17.4	77.4

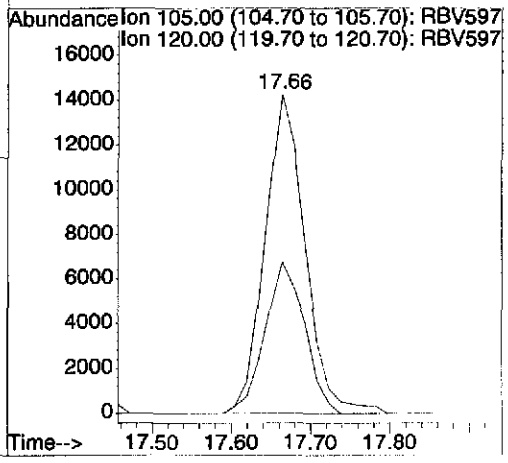


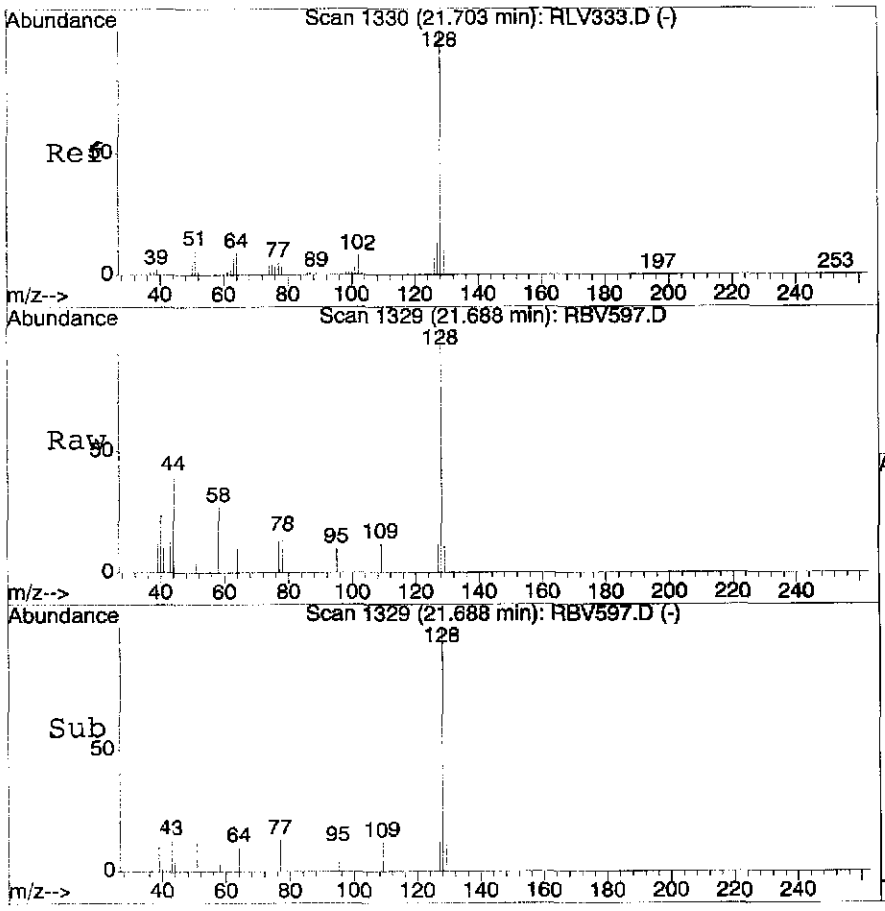


#85
1,2,4-Trimethylbenzene
Concen: 0.34 ug/l
RT: 17.66 min Scan# 1057
Delta R.T. -0.03 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion:105 Resp: 50162

Ion	Ratio	Lower	Upper
105	100		
120	46.7	24.1	84.1

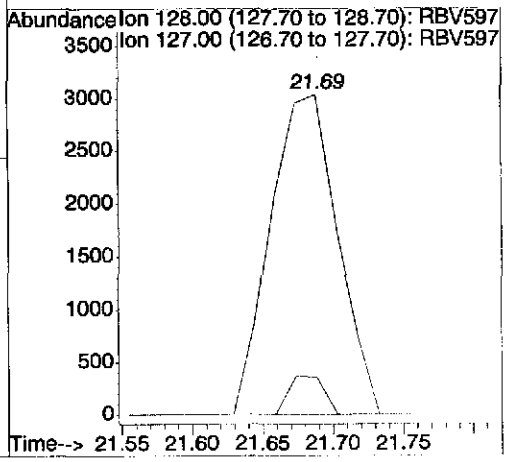




#95
Naphthalene
Concen: 0.22 ug/l
RT: 21.69 min Scan# 1329
Delta R.T. -0.01 min
Lab File: RBV597.D
Acq: 22 Feb 2011 10:57 pm

Tgt Ion:128 Resp: 10118

Ion	Ratio	Lower	Upper
128	100		
127	0.0	0.0	42.4

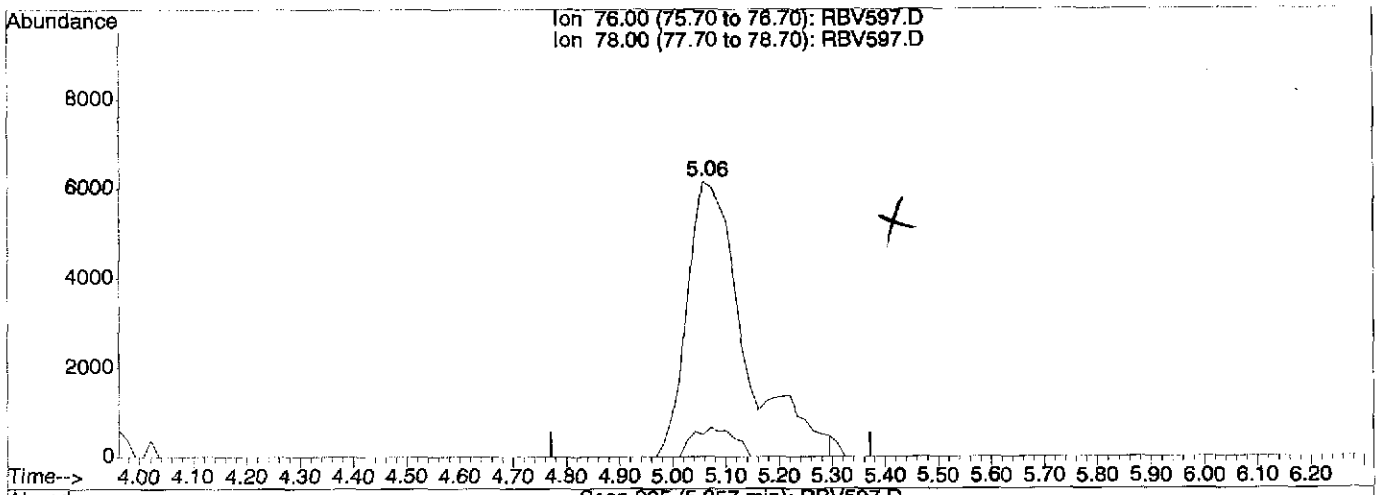


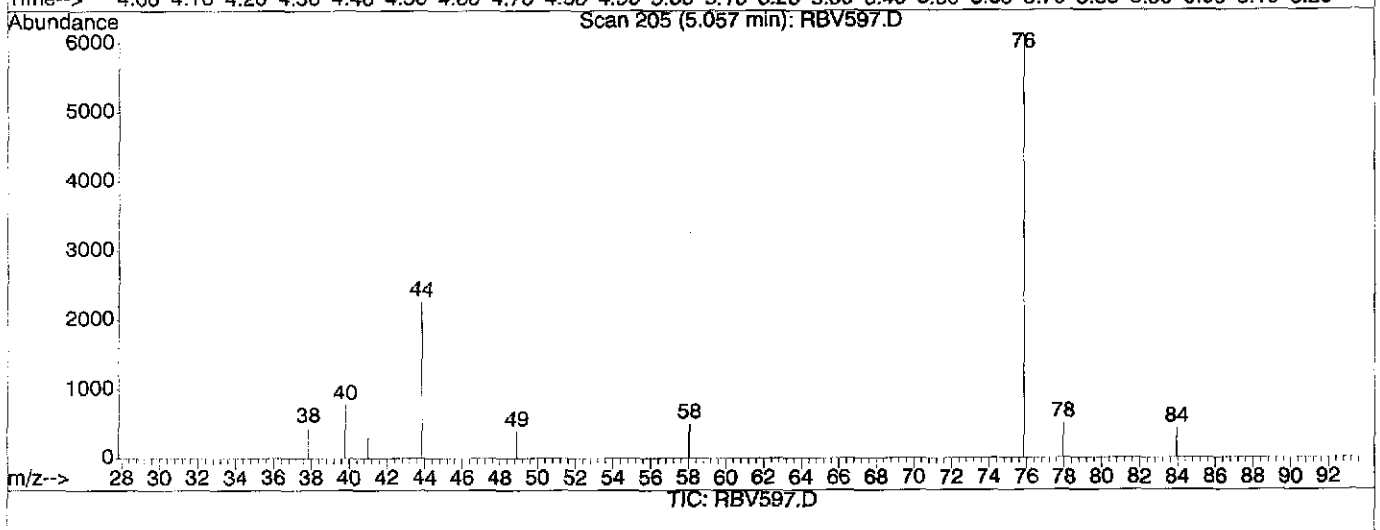
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\11B22\RBV597.D
Acq On : 22 Feb 2011 10:57 pm
Sample : 11B186-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:31 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration





(20) Carbon disulfide (T)

5.06min 0.42ug/l

response 46319

Ion	Exp%	Act%
76.00	100	100
78.00	8.90	7.72
0.00	0.00	0.00
0.00	0.00	0.00

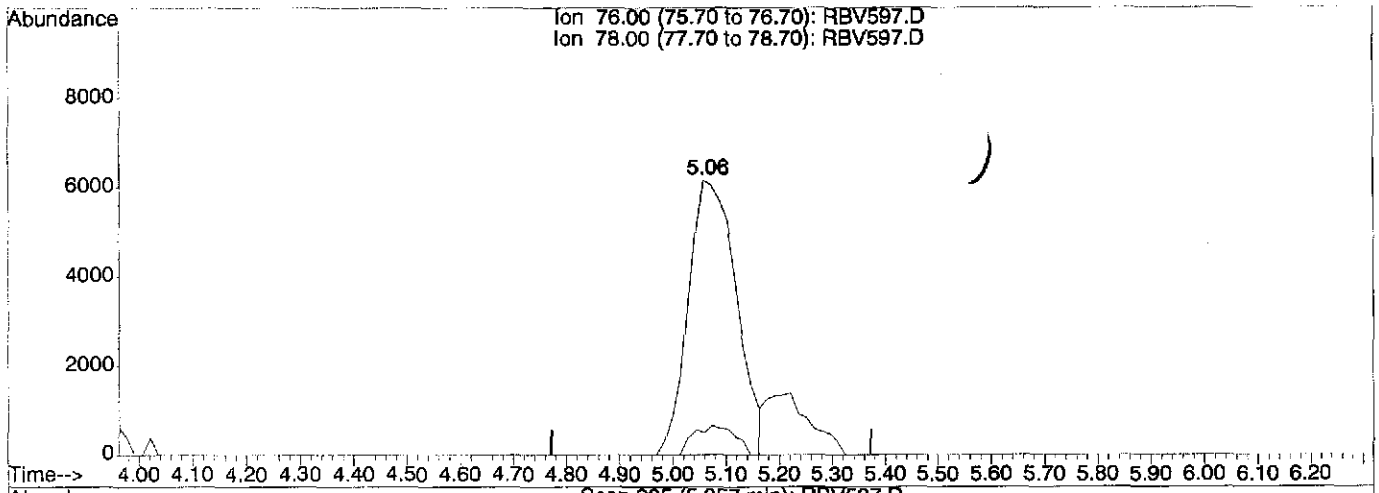
RBV597.D VO01L11.M Wed Feb 23 07:31:10 2011

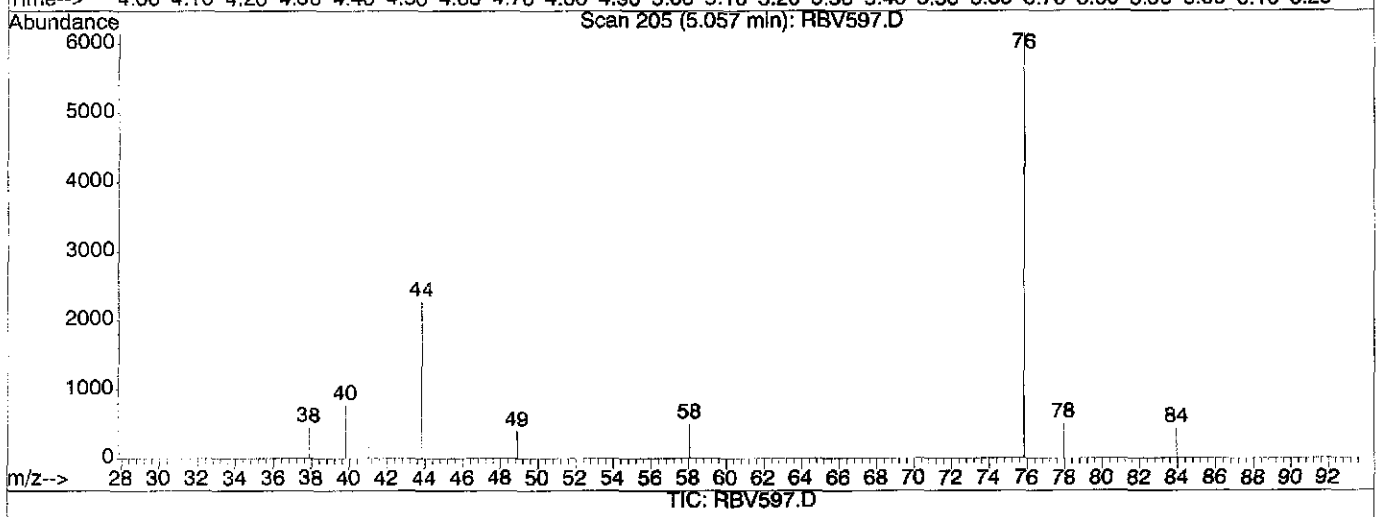
Quantitation Report (Qedit)

Data File : D:\HPCHEM\1\DATA\11B22\RBV597.D
Acq On : 22 Feb 2011 10:57 pm
Sample : 11B186-11 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:31 2011

Vial: 8
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration





(20) Carbon disulfide (T)

5.06min 0.38ug/l m

response 38679

Ion	Exp%	Act%
76.00	100	100
78.00	8.90	9.24
0.00	0.00	0.00
0.00	0.00	0.00

☐ Incorrect Peak Width
☑ Incorrect Baseline
☑ Incorrect Integration
☐ Other

Initials MW 2/23/11

3/1/11

RBV597.D VO01L11.M Wed Feb 23 07:31:14 2011

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	02/14/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 23:30
Sample ID:	SSI-HP-004A	Date Analyzed:	02/22/11 23:30
Lab Samp ID:	B186-13	Dilution Factor:	1
Lab File ID:	RBV598	Matrix :	WATER
Ext Btch ID:	V001B29	% Moisture :	NA
Calib. Ref.:	RLV333	Instrument ID :	T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	0.22J	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	0.83J	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	0.24J	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	0.59J	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	0.76J	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.95	10.00	99.5	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.43	10.00	94.3	85-115

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV598.D
Acq On : 22 Feb 2011 11:30 pm
Sample : 11B186-13 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:32 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1390418	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1213806	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.09	152	426815	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	392951	9.43	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	94.30%	
40) 1,2-Dichloroethane-d4	8.18	65	324224	9.95	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.50%	
55) Toluene-d8	11.29	98	1625292	10.28	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.80%	
76) 4-Bromofluorobenzene	16.29	95	506689	10.47	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	104.70%	
Target Compounds						Qvalue
13) Acetone	4.22	43	41475	7.56	ug/l	79
20) Carbon disulfide	5.06	76	114367	0.83	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	12203	0.24	ug/l	99
45) Benzene	8.36	78	42089	0.22	ug/l	96
46) Trichloroethene	9.31	130	38114	0.76	ug/l	97
56) Toluene	11.42	91	114665	0.59	ug/l	98
69) m-Xylene & p-Xylene	14.31	91	52920	0.33	ug/l	99

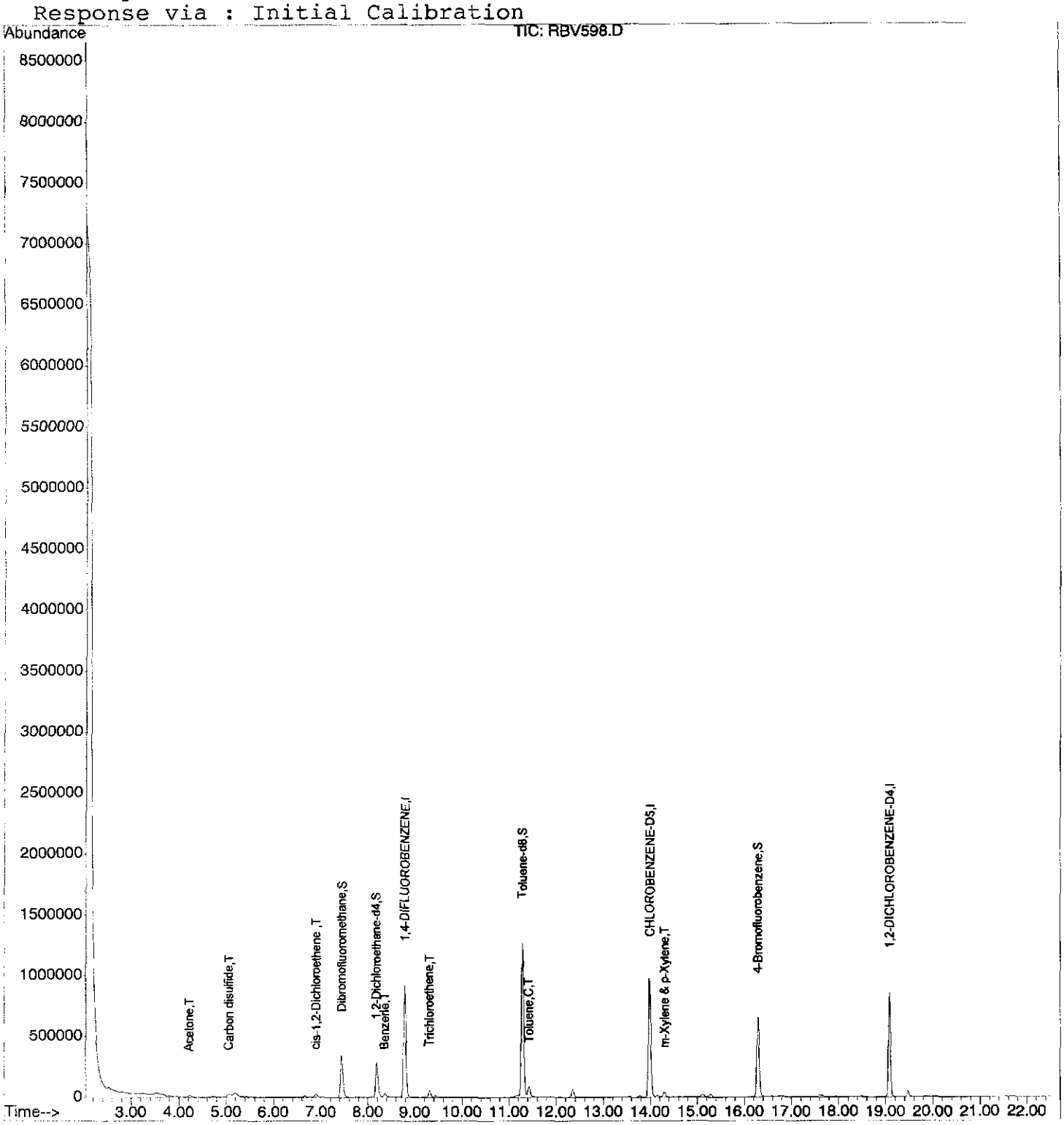
(#) = qualifier out of range (m) = manual integration

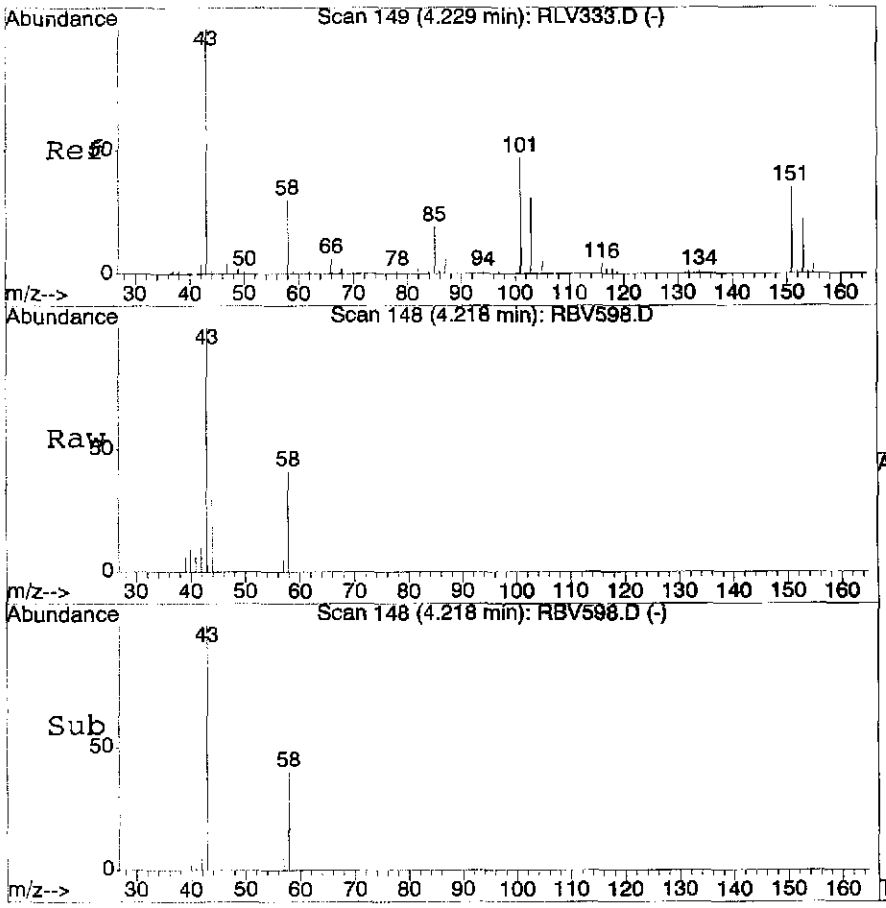
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV598.D
Acq On : 22 Feb 2011 11:30 pm
Sample : 11B186-13 25mL
Misc : DF=1.0
MS Integration Params: 524C.P
Quant Time: Feb 23 7:32 2011

Vial: 9
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration

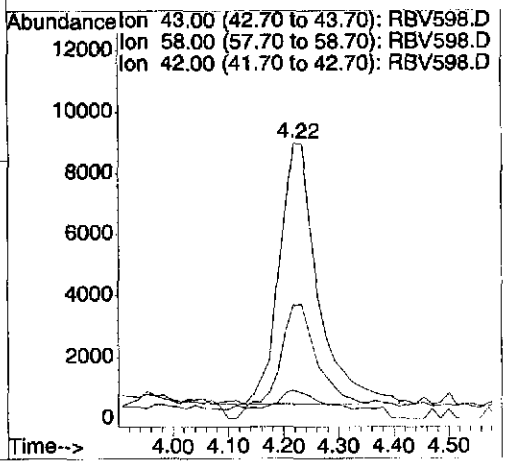


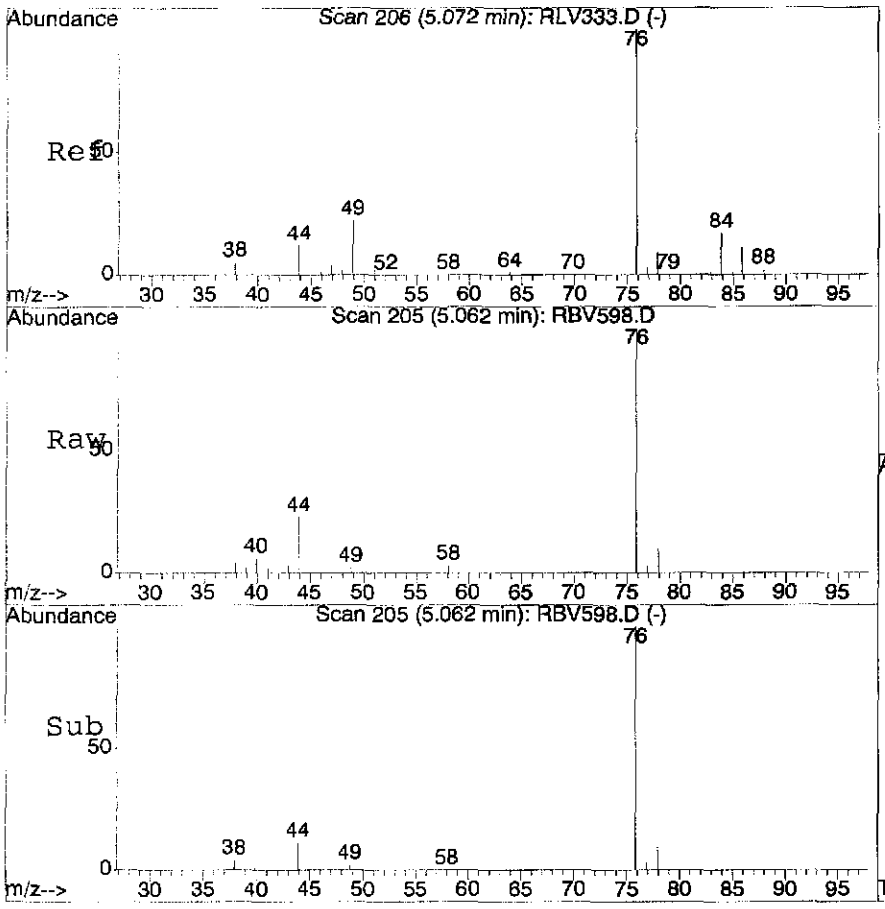


#13
Acetone
Concen: 7.56 ug/l
RT: 4.22 min Scan# 148
Delta R.T. -0.01 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 43 Resp: 41475

Ion	Ratio	Lower	Upper
43	100		
58	41.2	1.4	61.4
42	18.9	0.0	37.2

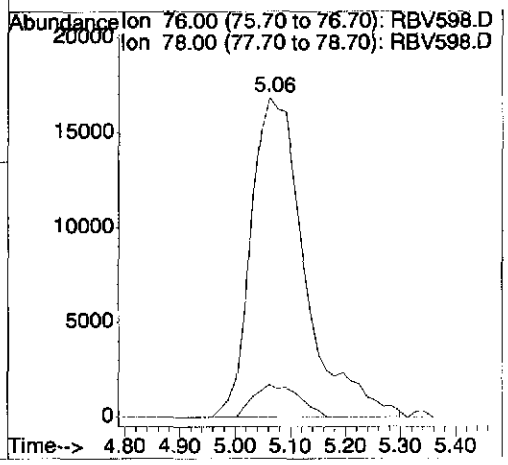


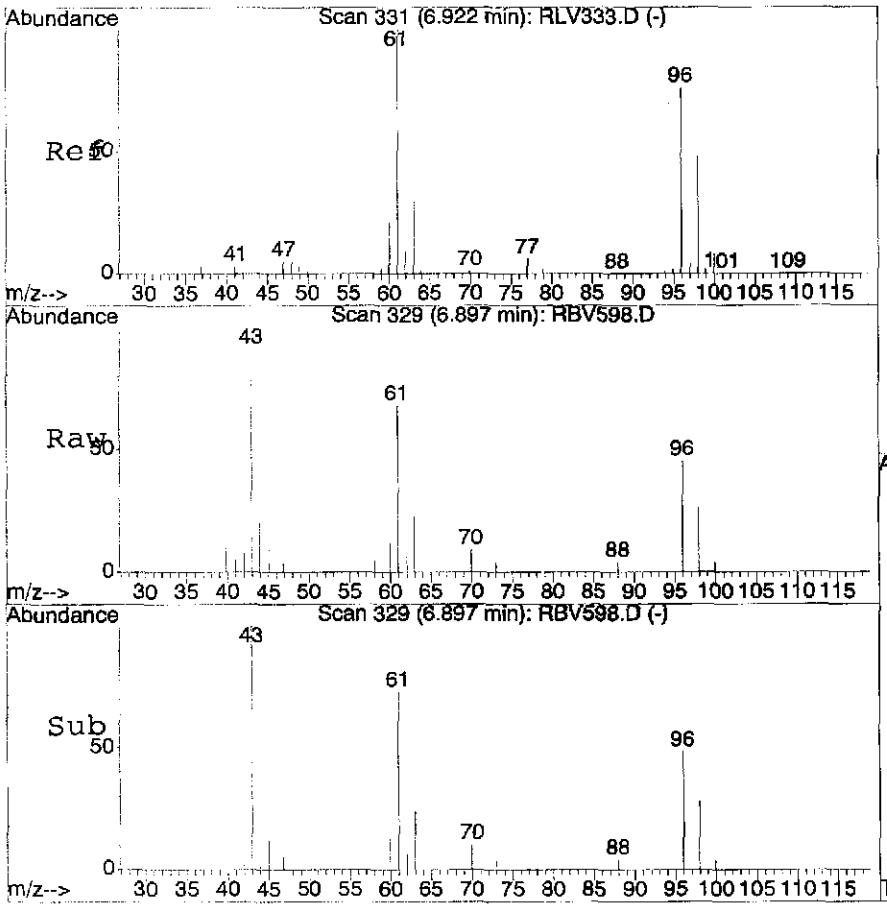


#20
Carbon disulfide
Concen: 0.83 ug/l
RT: 5.06 min Scan# 205
Delta R.T. -0.01 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 76 Resp: 114367

Ion	Ratio	Lower	Upper
76	100		
78	8.5	0.0	38.9

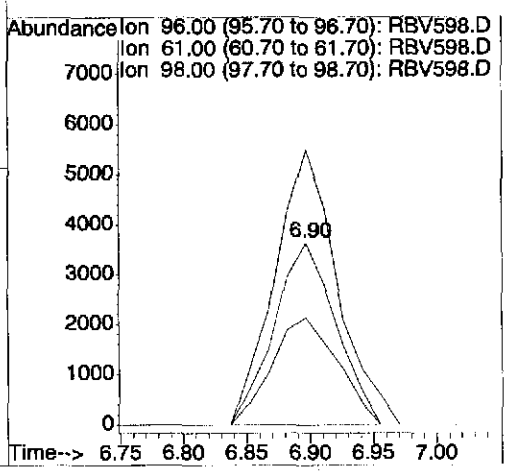


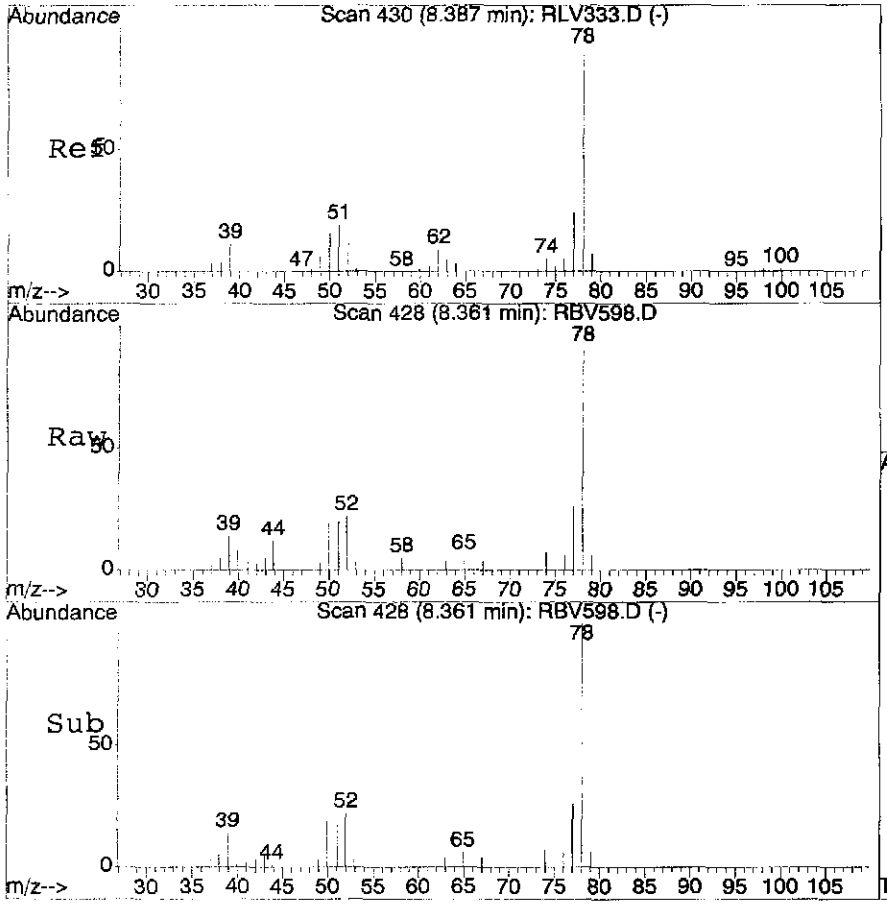


#31
cis-1,2-Dichloroethene
Concen: 0.24 ug/l
RT: 6.90 min Scan# 329
Delta R.T. -0.03 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 96 Resp: 12203

Ion	Ratio	Lower	Upper
96	100		
61	153.9	123.3	183.3
98	62.5	33.4	93.4

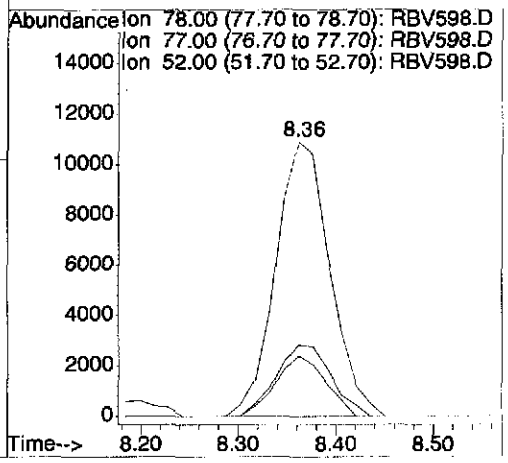


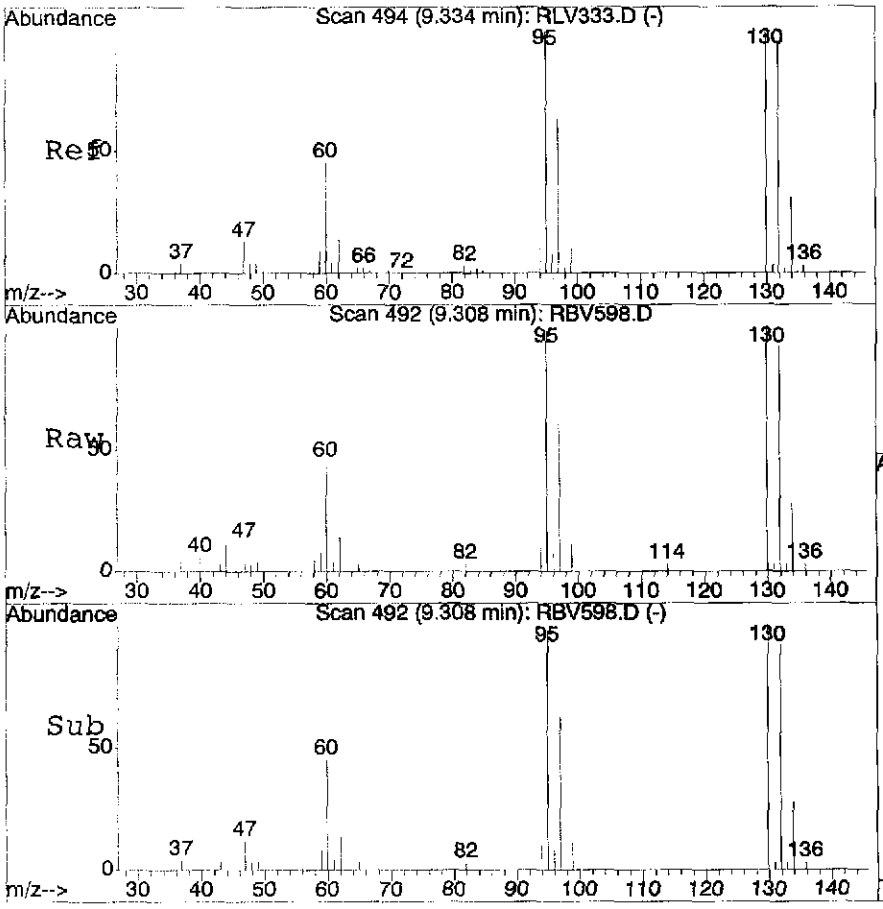


#45
Benzene
Concen: 0.22 ug/l
RT: 8.36 min Scan# 428
Delta R.T. -0.03 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 78 Resp: 42089

Ion	Ratio	Lower	Upper
78	100		
77	26.3	0.0	54.2
52	20.1	0.0	48.5

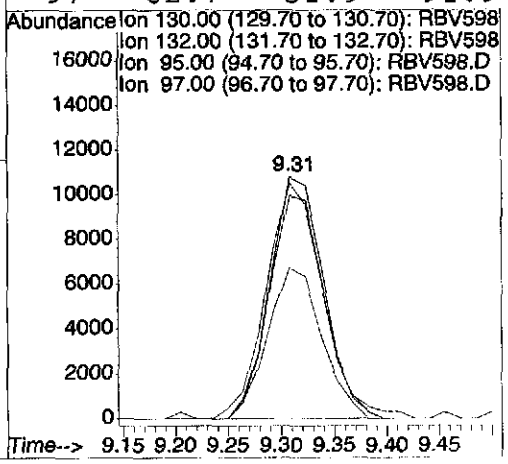


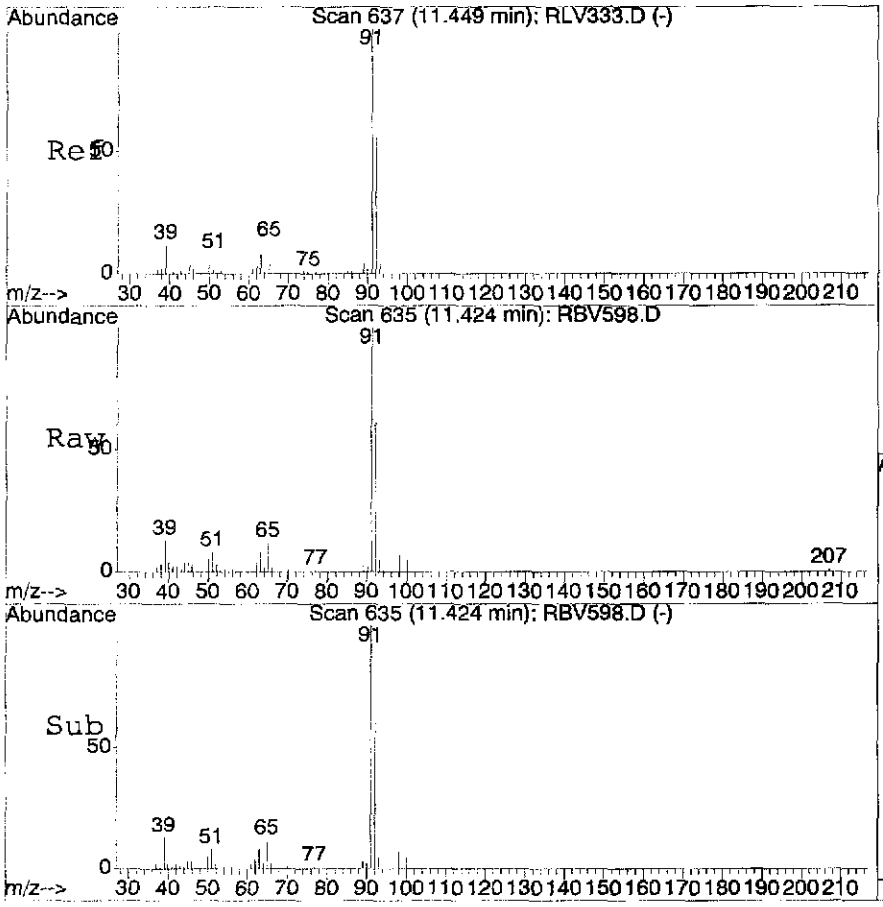


#46
Trichloroethene
Concen: 0.76 ug/l
RT: 9.31 min Scan# 492
Delta R.T. -0.03 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion:130 Resp: 38114

Ion	Ratio	Lower	Upper
130	100		
132	93.6	64.2	124.2
95	102.7	67.2	127.2
97	62.7	31.9	91.9

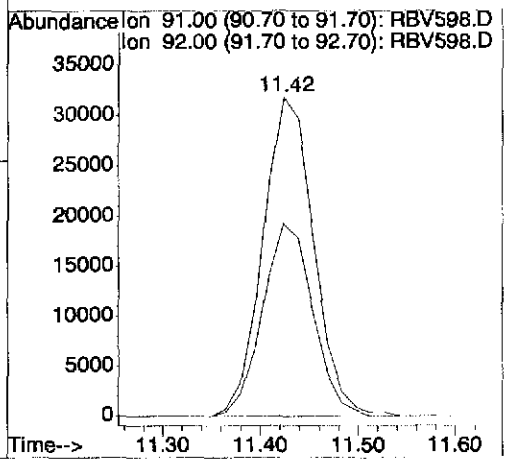


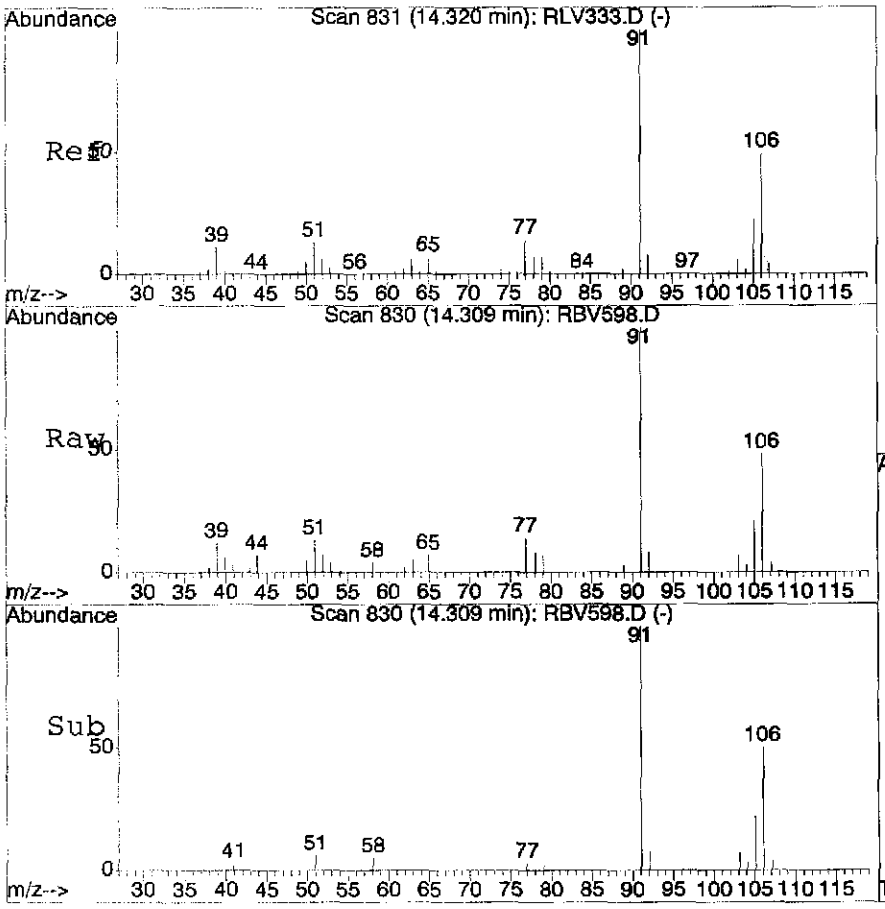


#56
Toluene
Concen: 0.59 ug/l
RT: 11.42 min Scan# 635
Delta R.T. -0.03 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 91 Resp: 114665

Ion	Ratio	Lower	Upper
91	100		
92	59.8	31.0	91.0

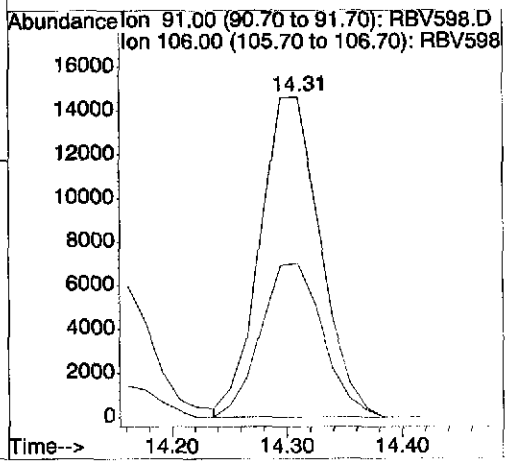




#69
m-Xylene & p-Xylene
Concen: 0.33 ug/l
RT: 14.31 min Scan# 830
Delta R.T. -0.01 min
Lab File: RBV598.D
Acq: 22 Feb 2011 11:30 pm

Tgt Ion: 91 Resp: 52920

Ion	Ratio	Lower	Upper
91	100		
106	49.0	19.5	79.5



QC SUMMARIES

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/22/11
Batch No.	: 11B186	Date Extracted:	02/22/11 09:23
Sample ID:	MBLK1W	Date Analyzed:	02/22/11 09:23
Lab Samp ID:	V001B28B	Dilution Factor:	1
Lab File ID:	RBV572	Matrix	: WATER
Ext Btch ID:	V001B28	% Moisture	: NA
Calib. Ref.:	RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	NO	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.91	10.00	99.1	70-120
4-BROMOFLUOROBENZENE	10.6	10.00	106	75-120
TOLUENE-D8	10.4	10.00	104	85-120
DIBROMOFLUOROMETHANE	9.76	10.00	97.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1W				
LAB SAMP ID:	V001B28B	V001B28L	V001B28C		
LAB FILE ID:	RBV572	RBV569	RBV570		
DATE EXTRACTED:	02/22/1109:23	02/22/1107:43	02/22/1108:17	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1109:23	02/22/1107:43	02/22/1108:17	DATE RECEIVED:	02/22/11
PREP. BATCH:	V001B28	V001B28	V001B28		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.3	103	10.0	9.20	92	11	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.28	93	10.0	8.58	86	8	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.71	97	10.0	9.18	92	6	75-125	30
1,1-Dichloroethane	ND	10.0	10.0	100	10.0	9.06	91	10	70-135	30
1,1-Dichloroethene	ND	10.0	9.97	100	10.0	9.29	93	7	70-130	30
1,2-Dichloroethane	ND	10.0	9.49	95	10.0	8.85	88	7	70-130	30
2-Butanone	ND	50.0	51.5	103	50.0	46.6	93	10	30-150	30
2-Hexanone	ND	50.0	45.9	92	50.0	42.2	84	8	55-130	30
4-Methyl-2-Pentanone	ND	50.0	45.9	92	50.0	42.4	85	8	60-135	30
Benzene	ND	10.0	9.96	100	10.0	9.47	95	5	80-120	30
Bromodichloromethane	ND	10.0	9.13	91	10.0	8.80	88	4	75-120	30
Bromoform	ND	10.0	9.26	93	10.0	8.57	86	8	70-130	30
Carbon Disulfide	ND	10.0	11.4	114	10.0	9.47	95	19	35-160	30
Carbon Tetrachloride	ND	10.0	10.0	100	10.0	9.27	93	8	65-140	30
Chlorobenzene	ND	10.0	9.90	99	10.0	9.31	93	6	80-120	30
Chloroethane	ND	10.0	10.9	109	10.0	9.86	99	10	60-135	30
Chloroform	ND	10.0	9.42	94	10.0	8.77	88	7	65-135	30
Chloromethane	ND	10.0	10.1	101	10.0	8.94	89	12	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.95	100	10.0	9.27	93	7	70-125	30
Dibromochloromethane	ND	10.0	8.99	90	10.0	8.42	84	6	60-135	30
Ethylbenzene	ND	10.0	9.94	99	10.0	9.34	93	6	75-125	30
m/p-Xylenes	ND	20.0	19.5	97	20.0	18.4	92	6	75-130	30
Methylene Chloride	ND	10.0	8.58	86	10.0	8.03	80	7	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.75	97	10.0	9.05	91	7	65-125	30
o-Xylene	ND	10.0	9.91	99	10.0	9.31	93	6	80-120	30
Tetrachloroethene	ND	10.0	10.1	101	10.0	9.49	95	6	45-150	30
Toluene	ND	10.0	9.95	99	10.0	9.47	95	5	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.67	97	10.0	9.06	91	6	60-140	30
Trichloroethene	ND	10.0	9.61	96	10.0	9.08	91	6	70-125	30
Vinyl Chloride	ND	10.0	10.3	103	10.0	9.29	93	11	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	10.2	102	10.0	9.51	95	7	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	10.2	102	10.0	9.56	96	7	75-130	30
Dichlorodifluoromethane	ND	10.0	10.2	102	10.0	9.20	92	10	30-155	30
Isopropylbenzene	ND	10.0	10.4	104	10.0	9.68	97	7	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	9.71	97	10.0	9.51	95	70-120
4-Bromofluorobenzene	10.0	10.3	103	10.0	10.4	104	75-120
Toluene-d8	10.0	10.3	103	10.0	10.3	103	85-120
Dibromofluoromethane	10.0	9.59	96	10.0	9.38	94	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/22/11
Batch No.	: 11B186	Date Extracted:	02/22/11 22:25
Sample ID	: MBLK2W	Date Analyzed:	02/22/11 22:25
Lab Samp ID	: V001B29B	Dilution Factor:	1
Lab File ID	: RBV596	Matrix	: WATER
Ext Btch ID	: V001B29	% Moisture	: NA
Calib. Ref.	: RLV333	Instrument ID	: T-001

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.1	10.00	101	70-120
4-BROMOFLUOROBENZENE	10.5	10.00	105	75-120
TOLUENE-D8	10.3	10.00	103	85-120
DIBROMOFLUOROMETHANE	9.59	10.00	95.9	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX:	WATER			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK2W				
LAB SAMP ID:	V001B29B	V001B29L	V001B29C		
LAB FILE ID:	RBV596	RBV593	RBV594		
DATE EXTRACTED:	02/22/1122:25	02/22/1120:49	02/22/1121:21	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1122:25	02/22/1120:49	02/22/1121:21	DATE RECEIVED:	02/22/11
PREP. BATCH:	V001B29	V001B29	V001B29		
CALIB. REF:	RLV333	RLV333	RLV333		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	9.06	91	10.0	9.36	94	3	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.13	91	10.0	9.24	92	1	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.49	95	10.0	9.59	96	1	75-125	30
1,1-Dichloroethane	ND	10.0	9.42	94	10.0	9.56	96	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.14	91	10.0	9.26	93	1	70-130	30
1,2-Dichloroethane	ND	10.0	9.18	92	10.0	9.09	91	1	70-130	30
2-Butanone	ND	50.0	51.8	104	50.0	48.3	97	7	30-150	30
2-Hexanone	ND	50.0	46.8	94	50.0	43.7	87	7	55-130	30
4-Methyl-2-Pentanone	ND	50.0	47.4	95	50.0	43.7	87	8	60-135	30
Benzene	ND	10.0	9.50	95	10.0	9.55	95	1	80-120	30
Bromodichloromethane	ND	10.0	8.93	89	10.0	9.03	90	1	75-120	30
Bromoform	ND	10.0	9.10	91	10.0	9.19	92	1	70-130	30
Carbon Disulfide	ND	10.0	9.00	90	10.0	9.22	92	2	35-160	30
Carbon Tetrachloride	ND	10.0	8.76	88	10.0	8.83	88	1	65-140	30
Chlorobenzene	ND	10.0	9.37	94	10.0	9.72	97	4	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.0	110	5	60-135	30
Chloroform	ND	10.0	9.01	90	10.0	9.27	93	3	65-135	30
Chloromethane	ND	10.0	9.83	98	10.0	9.64	96	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.43	94	10.0	9.54	95	1	70-125	30
Dibromochloromethane	ND	10.0	8.85	88	10.0	8.77	88	1	60-135	30
Ethylbenzene	ND	10.0	9.22	92	10.0	9.48	95	3	75-125	30
m/p-Xylenes	ND	20.0	18.3	92	20.0	18.7	94	2	75-130	30
Methylene Chloride	ND	10.0	8.38	84	10.0	8.61	86	3	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	10.0	100	10.0	9.74	97	3	65-125	30
o-Xylene	ND	10.0	9.43	94	10.0	9.69	97	3	80-120	30
Tetrachloroethene	ND	10.0	9.21	92	10.0	9.48	95	3	45-150	30
Toluene	ND	10.0	9.35	94	10.0	9.65	96	3	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.11	91	10.0	9.33	93	2	60-140	30
Trichloroethene	ND	10.0	9.16	92	10.0	9.49	95	4	70-125	30
Vinyl Chloride	ND	10.0	9.45	94	10.0	9.92	99	5	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.51	95	10.0	10.1	101	6	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.69	97	10.0	10.2	102	6	75-130	30
Dichlorodifluoromethane	ND	10.0	8.36	84	10.0	8.66	87	4	30-155	30
Isopropylbenzene	ND	10.0	9.83	98	10.0	10.4	104	6	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.0	100	70-120
4-Bromofluorobenzene	10.0	10.4	104	10.0	10.8	108	75-120
Toluene-d8	10.0	10.5	105	10.0	10.4	104	85-120
Dibromofluoromethane	10.0	9.61	96	10.0	9.55	96	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/24/11
Batch No.	: 11B186	Date Extracted:	02/24/11 12:09
Sample ID:	MBLK3W	Date Analyzed:	02/24/11 12:09
Lab Samp ID:	V003B28B	Dilution Factor:	1
Lab File ID:	RBB475	Matrix	: WATER
Ext Btch ID:	V003B28	% Moisture	: NA
Calib. Ref.:	RBB361	Instrument ID	: T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	10.0	10.00	100	70-120
4-BROMOFLUOROBENZENE	9.29	10.00	92.9	75-120
TOLUENE-D8	9.44	10.00	94.4	85-120
DIBROMOFLUOROMETHANE	9.86	10.00	98.6	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK3W				
LAB SAMP ID:	V003B28B	V003B28X	V003B28C		
LAB FILE ID:	RBB475	RBB473	RBB472		
DATE EXTRACTED:	02/24/1112:09	02/24/1110:53	02/24/1110:04	DATE COLLECTED:	NA
DATE ANALYZED:	02/24/1112:09	02/24/1110:53	02/24/1110:04	DATE RECEIVED:	02/24/11
PREP. BATCH:	V003B28	V003B28	V003B28		
CALIB. REF:	RBB361	RBB361	RBB361		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.6	106	10.0	9.95	100	6	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	8.93	89	10.0	8.71	87	2	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.38	94	10.0	9.52	95	1	75-125	30
1,1-Dichloroethane	ND	10.0	10.1	101	10.0	9.37	94	7	70-135	30
1,1-Dichloroethene	ND	10.0	10.5	105	10.0	9.82	98	6	70-130	30
1,2-Dichloroethane	ND	10.0	10.6	106	10.0	10.2	102	3	70-130	30
2-Butanone	ND	50.0	49.9	100	50.0	49.7	99	0	30-150	30
2-Hexanone	ND	50.0	50.1	100	50.0	52.7	105	5	55-130	30
4-Methyl-2-Pentanone	ND	50.0	51.7	103	50.0	50.7	101	2	60-135	30
Benzene	ND	10.0	8.88	89	10.0	8.69	87	2	80-120	30
Bromodichloromethane	ND	10.0	10.7	107	10.0	10.4	104	3	75-120	30
Bromoform	ND	10.0	9.61	96	10.0	9.42	94	2	70-130	30
Carbon Disulfide	ND	10.0	10.3	103	10.0	9.16	92	12	35-160	30
Carbon Tetrachloride	ND	10.0	10.4	104	10.0	9.67	97	8	65-140	30
Chlorobenzene	ND	10.0	9.54	95	10.0	9.26	93	3	80-120	30
Chloroethane	ND	10.0	10.6	106	10.0	10.0	100	6	60-135	30
Chloroform	ND	10.0	10.2	102	10.0	9.89	99	3	65-135	30
Chloromethane	ND	10.0	10.9	109	10.0	11.1	111	2	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.56	96	10.0	9.42	94	1	70-125	30
Dibromochloromethane	ND	10.0	12.0	120	10.0	11.8	118	2	60-135	30
Ethylbenzene	ND	10.0	9.53	95	10.0	9.38	94	2	75-125	30
m/p-Xylenes	ND	20.0	19.5	97	20.0	19.3	96	1	75-130	30
Methylene Chloride	ND	10.0	9.94	99	10.0	9.26	93	7	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	10.3	103	10.0	10.4	104	1	65-125	30
o-Xylene	ND	10.0	9.68	97	10.0	9.56	96	1	80-120	30
Tetrachloroethene	ND	10.0	9.66	97	10.0	9.15	92	5	45-150	30
Toluene	ND	10.0	9.24	92	10.0	9.04	90	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	10.3	103	10.0	9.76	98	5	60-140	30
Trichloroethene	ND	10.0	9.37	94	10.0	8.89	89	5	70-125	30
Vinyl Chloride	ND	10.0	11.2	112	10.0	11.2	112	0	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	8.94	89	10.0	8.86	89	1	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	8.93	89	10.0	9.06	91	1	75-130	30
Dichlorodifluoromethane	ND	10.0	11.0	110	10.0	10.8	108	2	30-155	30
Isopropylbenzene	ND	10.0	8.89	89	10.0	8.54	85	4	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	10.4	104	70-120
4-Bromofluorobenzene	10.0	9.01	90	10.0	8.79	88	75-120
Toluene-d8	10.0	9.32	93	10.0	9.14	91	85-120
Dibromofluoromethane	10.0	10.4	104	10.0	10.5	105	85-115

METHOD 5030B/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 02/25/11
Batch No. : 11B186	Date Extracted: 02/25/11 14:12
Sample ID: MBLK4W	Date Analyzed: 02/25/11 14:12
Lab Samp ID: V003B29B	Dilution Factor: 1
Lab File ID: RBB489	Matrix : WATER
Ext Btch ID: V003B29	% Moisture : NA
Calib. Ref.: RBB361	Instrument ID : T-003

PARAMETERS	RESULTS (ug/L)	RL (ug/L)	MDL (ug/L)
1,1,1-TRICHLOROETHANE	ND	1.0	0.20
1,1,2,2-TETRACHLOROETHANE	ND	1.0	0.20
1,1,2-TRICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHANE	ND	1.0	0.20
1,1-DICHLOROETHENE	ND	1.0	0.20
1,2-DICHLOROETHANE	ND	1.0	0.20
2-BUTANONE	ND	10	4.0
2-HEXANONE	ND	10	4.0
4-METHYL-2-PENTANONE	ND	10	4.0
BENZENE	ND	1.0	0.20
BROMODICHLOROMETHANE	ND	1.0	0.20
BROMOFORM	ND	1.0	0.30
CARBON DISULFIDE	ND	1.0	0.20
CARBON TETRACHLORIDE	ND	1.0	0.20
CHLOROBENZENE	ND	1.0	0.20
CHLOROETHANE	ND	1.0	0.30
CHLOROFORM	ND	1.0	0.20
CHLOROMETHANE	ND	1.0	0.30
CIS-1,2-DICHLOROETHENE	ND	1.0	0.20
DIBROMOCHLOROMETHANE	ND	1.0	0.20
ETHYLBENZENE	ND	1.0	0.20
M/P-XYLENES	ND	2.0	0.40
METHYLENE CHLORIDE	ND	1.0	0.50
METHYL TERT-BUTYL ETHER	ND	1.0	0.20
O-XYLENE	ND	1.0	0.20
TETRACHLOROETHENE	ND	1.0	0.20
TOLUENE	ND	1.0	0.20
TRANS-1,2-DICHLOROETHENE	ND	1.0	0.20
TRICHLOROETHENE	ND	1.0	0.20
VINYL CHLORIDE	ND	1.0	0.20
1,2,4-TRIMETHYLBENZENE	ND	1.0	0.20
1,3,5-TRIMETHYLBENZENE	ND	1.0	0.20
DICHLORODIFLUOROMETHANE	ND	1.0	0.30
ISOPROPYLBENZENE	ND	1.0	0.20

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	9.73	10.00	97.3	70-120
4-BROMOFLUOROBENZENE	9.20	10.00	92.0	75-120
TOLUENE-D8	9.77	10.00	97.7	85-120
DIBROMOFLUOROMETHANE	9.70	10.00	97.0	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK4W				
LAB SAMP ID:	V003B29B	V003B29L	V003B29Y		
LAB FILE ID:	RBB489	RBB485	RBB487		
DATE EXTRACTED:	02/25/1114:12	02/25/1111:07	02/25/1112:58	DATE COLLECTED:	NA
DATE ANALYZED:	02/25/1114:12	02/25/1111:07	02/25/1112:58	DATE RECEIVED:	02/25/11
PREP. BATCH:	V003B29	V003B29	V003B29		
CALIB. REF:	RBB361	RBB361	RBB361		

ACCESSION:

PARAMETER	BLNK RSLT (ug/L)	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	10.0	100	1	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.24	92	10.0	9.39	94	2	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.86	99	10.0	9.88	99	0	75-125	30
1,1-Dichloroethane	ND	10.0	9.65	97	10.0	9.54	95	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.53	95	10.0	9.70	97	2	70-130	30
1,2-Dichloroethane	ND	10.0	9.88	99	10.0	9.86	99	0	70-130	30
2-Butanone	ND	50.0	52.6	105	50.0	52.0	104	1	30-150	30
2-Hexanone	ND	50.0	56.7	113	50.0	55.5	111	2	55-130	30
4-Methyl-2-Pentanone	ND	50.0	54.7	109	50.0	54.7	109	0	60-135	30
Benzene	ND	10.0	8.85	88	10.0	8.62	86	3	80-120	30
Bromodichloromethane	ND	10.0	10.3	103	10.0	9.95	100	4	75-120	30
Bromoform	ND	10.0	9.41	94	10.0	9.83	98	4	70-130	30
Carbon Disulfide	ND	10.0	9.48	95	10.0	9.27	93	2	35-160	30
Carbon Tetrachloride	ND	10.0	9.92	99	10.0	9.81	98	1	65-140	30
Chlorobenzene	ND	10.0	9.49	95	10.0	9.48	95	0	80-120	30
Chloroethane	ND	10.0	10.4	104	10.0	11.4	114	9	60-135	30
Chloroform	ND	10.0	9.76	98	10.0	9.55	96	2	65-135	30
Chloromethane	ND	10.0	11.0	110	10.0	10.9	109	1	40-125	30
cis-1,2-Dichloroethene	ND	10.0	9.37	94	10.0	9.46	95	1	70-125	30
Dibromochloromethane	ND	10.0	11.7	117	10.0	11.5	115	2	60-135	30
Ethylbenzene	ND	10.0	9.52	95	10.0	9.56	96	0	75-125	30
m/p-Xylenes	ND	20.0	19.9	100	20.0	19.4	97	3	75-130	30
Methylene Chloride	ND	10.0	9.19	92	10.0	9.40	94	2	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.97	100	10.0	9.85	99	1	65-125	30
o-Xylene	ND	10.0	9.78	98	10.0	9.73	97	1	80-120	30
Tetrachloroethene	ND	10.0	9.32	93	10.0	9.29	93	0	45-150	30
Toluene	ND	10.0	9.24	92	10.0	9.04	90	2	75-120	30
Trans-1,2-Dichloroethene	ND	10.0	9.86	99	10.0	9.63	96	2	60-140	30
Trichloroethene	ND	10.0	9.20	92	10.0	9.05	91	2	70-125	30
Vinyl Chloride	ND	10.0	10.7	107	10.0	11.1	111	4	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.24	92	10.0	9.29	93	1	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.07	91	10.0	9.19	92	1	75-130	30
Dichlorodifluoromethane	ND	10.0	10.7	107	10.0	10.8	108	1	30-155	30
Isopropylbenzene	ND	10.0	8.79	88	10.0	8.95	90	2	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	BS RSLT (ug/L)	BS % REC	SPIKE AMT (ug/L)	BSD RSLT (ug/L)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.2	102	10.0	9.85	98	70-120
4-Bromofluorobenzene	10.0	8.86	89	10.0	9.09	91	75-120
Toluene-d8	10.0	9.27	93	10.0	9.15	92	85-120
Dibromofluoromethane	10.0	10.3	103	10.0	9.87	99	85-115

EMAX QUALITY CONTROL DATA
MS/MSD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5030B/8260B

MATRIX: WATER % MOISTURE: NA

DILUTION FACTOR:	1	1	1
SAMPLE ID:	SS1-HP-004		
LAB SAMP ID:	B186-05N	B186-05G	B186-05V
LAB FILE ID:	RBB491	RBB492	RBB493
DATE EXTRACTED:	02/25/1115:24	02/25/1116:00	02/25/1116:36
DATE ANALYZED:	02/25/1115:24	02/25/1116:00	02/25/1116:36
PREP. BATCH:	V003B29	V003B29	V003B29
CALIB. REF:	RBB361	RBB361	RBB361

DATE COLLECTED: 02/15/11
DATE RECEIVED: 02/17/11

ACCESSION:

PARAMETER	SMPL RSLT (ug/L)	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	10.0	10.1	101	10.0	9.85	98	2	65-130	30
1,1,2,2-Tetrachloroethane	ND	10.0	9.20	92	10.0	9.19	92	0	65-130	30
1,1,2-Trichloroethane	ND	10.0	9.82	98	10.0	9.58	96	3	75-125	30
1,1-Dichloroethane	ND	10.0	9.63	96	10.0	9.70	97	1	70-135	30
1,1-Dichloroethene	ND	10.0	9.37	94	10.0	9.08	91	3	70-130	30
1,2-Dichloroethane	ND	10.0	9.92	99	10.0	10.1	101	2	70-130	30
2-Butanone	ND	50.0	50.2	100	50.0	48.6	97	3	30-150	30
2-Hexanone	ND	50.0	53.3	107	50.0	52.6	105	1	55-130	30
4-Methyl-2-Pentanone	ND	50.0	51.6	103	50.0	51.3	103	1	60-135	30
Benzene	ND	10.0	9.31	93	10.0	9.25	92	1	80-120	30
Bromodichloromethane	ND	10.0	10.3	103	10.0	10.3	103	0	75-120	30
Bromoform	ND	10.0	9.57	96	10.0	9.80	98	2	70-130	30
Carbon Disulfide	0.516J	10.0	8.09	76	10.0	9.27	88	14	35-160	30
Carbon Tetrachloride	ND	10.0	10.1	101	10.0	9.90	99	2	65-140	30
Chlorobenzene	ND	10.0	9.69	97	10.0	9.73	97	0	80-120	30
Chloroethane	ND	10.0	10.3	103	10.0	8.79	88	16	60-135	30
Chloroform	ND	10.0	9.88	99	10.0	10.0	100	2	65-135	30
Chloromethane	ND	10.0	10.6	106	10.0	9.85	98	7	40-125	30
cis-1,2-Dichloroethene	5.57	10.0	15.5	99	10.0	15.0	95	3	70-125	30
Dibromochloromethane	ND	10.0	11.9	119	10.0	11.7	117	2	60-135	30
Ethylbenzene	ND	10.0	10.0	100	10.0	9.76	98	2	75-125	30
m/p-Xylenes	ND	20.0	19.7	99	20.0	20.5	102	4	75-130	30
Methylene Chloride	ND	10.0	9.21	92	10.0	8.86	89	4	55-140	30
Methyl Tert-Butyl Ether	ND	10.0	9.84	98	10.0	9.65	97	2	65-125	30
o-Xylene	ND	10.0	10.2	102	10.0	10.1	101	1	80-120	30
Tetrachloroethene	ND	10.0	9.38	94	10.0	9.44	94	1	45-150	30
Toluene	0.296J	10.0	9.89	96	10.0	10.0	97	1	75-120	30
Trans-1,2-Dichloroethene	0.543J	10.0	10.3	98	10.0	9.75	92	5	60-140	30
Trichloroethene	94.2	10.0	98.1	39*	10.0	102	78	4	70-125	30
Vinyl Chloride	ND	10.0	11.1	111	10.0	9.91	99	11	50-145	30
1,2,4-Trimethylbenzene	ND	10.0	9.29	93	10.0	9.77	98	5	75-130	30
1,3,5-Trimethylbenzene	ND	10.0	9.38	94	10.0	9.74	97	4	75-130	30
Dichlorodifluoromethane	ND	10.0	10.9	109	10.0	9.83	98	10	30-155	30
Isopropylbenzene	ND	10.0	9.20	92	10.0	9.65	97	5	75-125	30

SURROGATE PARAMETER	SPIKE AMT (ug/L)	MS RSLT (ug/L)	MS % REC	SPIKE AMT (ug/L)	MSD RSLT (ug/L)	MSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	10.0	10.3	103	10.0	9.95	100	70-120
4-Bromofluorobenzene	10.0	9.42	94	10.0	9.39	94	75-120
Toluene-d8	10.0	9.16	92	10.0	9.50	95	85-120
Dibromofluoromethane	10.0	10.4	104	10.0	10.1	101	85-115

QC DATA

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV572.D
Acq On : 22 Feb 2011 9:23 am
Sample : VO01B28B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Feb 22 11:07 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1404040	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	13.98	117	1260325	10.00	ug/l	-0.04
72) 1,2-DICHLOROBENZENE-D4	19.09	152	426445	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	410625	9.76	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	97.60%	
40) 1,2-Dichloroethane-d4	8.18	65	325903	9.91	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	99.10%	
55) Toluene-d8	11.29	98	1714565	10.44	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	104.40%	
76) 4-Bromofluorobenzene	16.29	95	513882	10.63	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	106.30%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

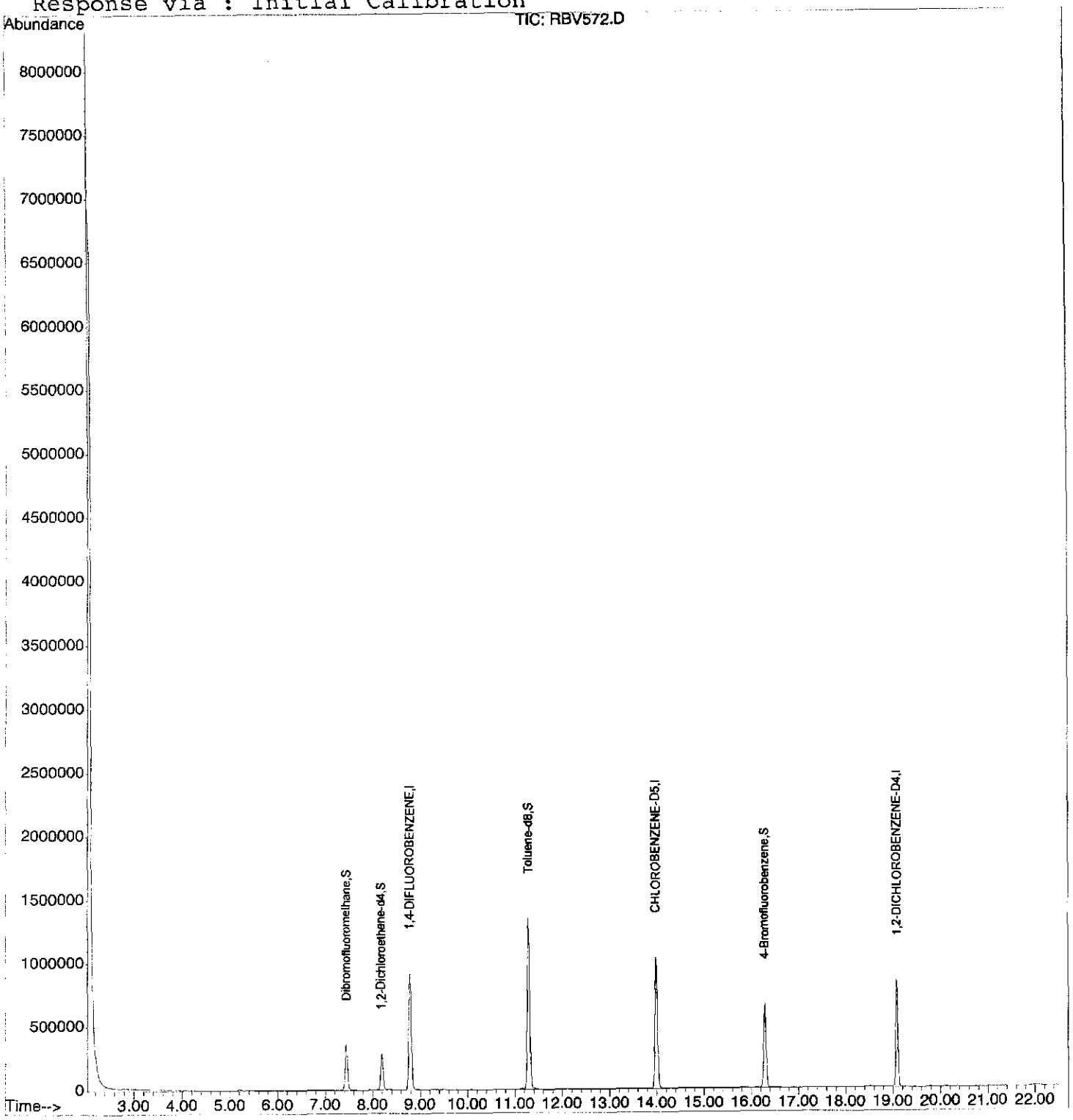
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV572.D
Acq On : 22 Feb 2011 9:23 am
Sample : VO01B28B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Feb 22 11:07 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV569.D
Acq On : 22 Feb 2011 7:43 am
Sample : VO01B28L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 8:05 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1301526	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1144234	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	396621	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	373914	9.59	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.90%	
40) 1,2-Dichloroethane-d4	8.20	65	296142	9.71	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.10%	
55) Toluene-d8	11.29	98	1534538	10.30	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	103.00%	
76) 4-Bromofluorobenzene	16.29	95	461324	10.26	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.60%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.21	85	231626	10.17	ug/l	99
4) Chloromethane	2.47	50	450763	10.13	ug/l	100
5) Vinyl chloride	2.64	62	392931	10.34	ug/l	100
6) Bromomethane	3.18	94	280297	9.92	ug/l	99
7) Chloroethane	3.26	64	321928	10.91	ug/l	99
8) Dichlorofluoromethane	3.33	67	701669	9.20	ug/l	100
9) Trichlorofluoromethane	3.63	101	488616	11.29	ug/l	100
11) Acrolein	4.13	56	104412	49.79	ug/l #	63
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	231511	11.17	ug/l	100
13) Acetone	4.22	43	257212	50.10	ug/l	96
14) 1,1-Dichloroethene	4.38	61	597122	9.97	ug/l	98
15) tert-Butyl alcohol	4.51	59	123780	64.84	ug/l #	67
17) Iodomethane	4.80	142	535516	8.48	ug/l	98
19) Methylene chloride	5.03	49	534861	8.58	ug/l	96
20) Carbon disulfide	5.05	76	1772624	11.40	ug/l	100
21) Acrylonitrile	5.20	53	366542	53.94	ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	576757	9.75	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	649151	9.67	ug/l	96
24) Isopropyl ether (DIPE)	5.88	45	1608290	9.77	ug/l	98
25) Vinyl acetate	6.02	43	678932	11.23	ug/l	97
26) 1,1-Dichloroethane	6.02	63	825283	10.04	ug/l	98
28) tert-Butyl ethyl ether (ET	6.47	59	913980	9.32	ug/l	98
29) 2-Butanone	6.63	43	494838	51.47	ug/l	98
30) 2,2-Dichloropropane	6.84	77	526418	10.63	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	479845	9.95	ug/l	98
32) Chloroform	7.12	83	668387	9.42	ug/l	99
33) Bromochloromethane	7.37	49	335758	9.43	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV569.D
Acq On : 22 Feb 2011 7:43 am
Sample : VO01B28L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 8:05 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	529935	10.30 ug/l	97
39) tert-Amyl methyl ether (TA	8.14	87	139063	9.57 ug/l	94
42) 1,1-Dichloropropene	7.96	110	219504	9.99 ug/l	99
43) Carbon tetrachloride	8.11	119	433681	10.02 ug/l	96
44) 1,2-Dichloroethane	8.33	62	364134	9.49 ug/l	99
45) Benzene	8.36	78	1774275	9.96 ug/l	99
46) Trichloroethene	9.32	130	453743	9.61 ug/l	98
48) 1,2-Dichloropropane	9.60	63	459420	9.35 ug/l	97
49) 1,4-Dioxane	10.03	88	35737	230.10 ug/l	82
50) Bromodichloromethane	9.97	83	480239	9.13 ug/l	98
51) Dibromomethane	10.06	93	159693	8.49 ug/l	97
52) 2-Chloroethyl vinyl ether	10.46	63	55067	4.52 ug/l	97
53) 4-Methyl-2-pentanone	10.52	43	1157395	45.93 ug/l	95
54) cis-1,3-Dichloropropene	10.88	75	642885	9.67 ug/l	99
56) Toluene	11.42	91	1810158	9.95 ug/l	100
57) Ethyl methacrylate	11.72	69	325961	9.19 ug/l	99
58) trans-1,3-Dichloropropene	11.72	75	455951	9.74 ug/l	96
59) 2-Hexanone	12.03	43	719973	45.90 ug/l	98
60) 1,1,2-Trichloroethane	12.00	97	243979	9.71 ug/l	98
61) 1,3-Dichloropropane	12.46	76	469103	9.50 ug/l	100
62) Tetrachloroethene	12.58	164	358910	10.10 ug/l	98
63) Dibromochloromethane	12.93	129	278334	8.99 ug/l	99
64) 1,2-Dibromoethane	13.30	107	217180	8.80 ug/l	98
65) 1-Chlorohexane	13.59	91	789204	10.59 ug/l	98
66) Chlorobenzene	14.06	112	1078550	9.90 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.15	131	343185	9.78 ug/l	97
68) Ethylbenzene	14.16	91	2062184	9.94 ug/l	99
69) m-Xylene & p-Xylene	14.30	91	2969440	19.48 ug/l	99
70) o-Xylene	15.12	91	1475503	9.91 ug/l	99
71) Styrene	15.20	104	1125154	10.03 ug/l	99
73) Isopropylbenzene	15.80	105	1806495	10.37 ug/l	98
74) Bromoform	15.83	173	135920	9.26 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.13	83	263440	9.28 ug/l	99
77) 1,2,3-Trichloropropane	16.43	110	65416	9.15 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.56	53	71386	9.74 ug/l	100
79) n-Propylbenzene	16.59	91	2394354	10.35 ug/l	98
80) Bromobenzene	16.68	156	360785	9.90 ug/l	98
81) 1,3,5-Trimethylbenzene	16.90	105	1400508	10.22 ug/l	97
82) 2-Chlorotoluene	16.93	91	1413620	10.04 ug/l	97
83) 4-Chlorotoluene	17.02	91	1250344	10.32 ug/l	94
84) tert-Butylbenzene	17.59	134	336459	10.81 ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV569.D
Acq On : 22 Feb 2011 7:43 am
Sample : VO01B28L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 8:05 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

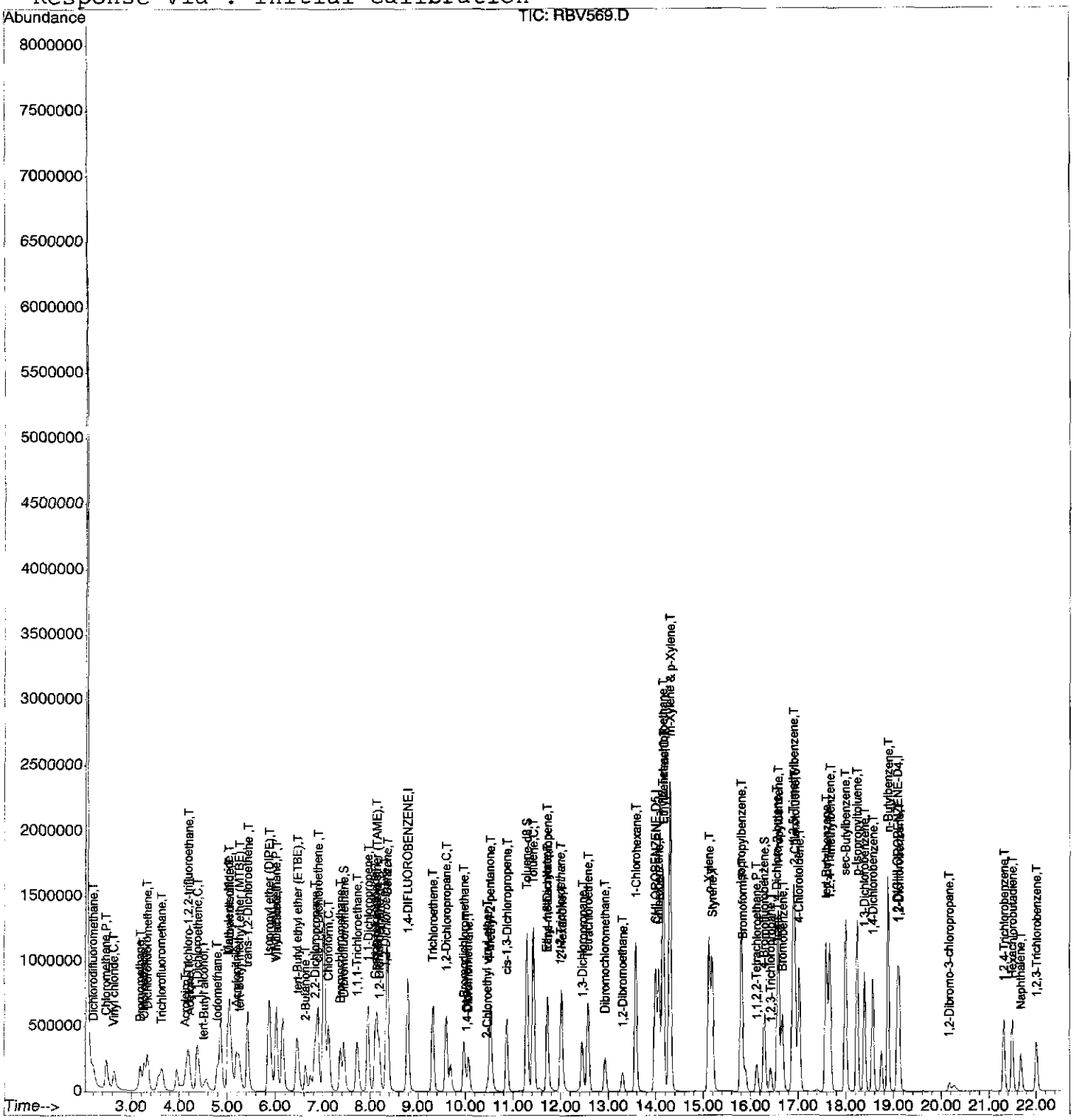
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1378023	10.17 ug/l	96
86) sec-Butylbenzene	17.99	105	1988888	10.42 ug/l	98
87) p-Isopropyltoluene	18.23	119	1533186	10.52 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	728340	9.90 ug/l	98
89) 1,4-Dichlorobenzene	18.57	146	694338	9.83 ug/l	98
90) n-Butylbenzene	18.88	91	1582736	10.36 ug/l	99
91) 1,2-Dichlorobenzene	19.12	146	592227	9.91 ug/l	97
92) 1,2-Dibromo-3-chloropropan	20.17	157	32236	9.10 ug/l	87
93) 1,2,4-Trichlorobenzene	21.32	180	352918	9.71 ug/l	98
94) Hexachlorobutadiene	21.50	225	227881	9.82 ug/l	98
95) Naphthalene	21.68	128	454368	10.80 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	273346	9.40 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV569.D Vial: 4
Acq On : 22 Feb 2011 7:43 am Operator: MW
Sample : VO01B28L Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 8:05 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV570.D Vial: 5
Acq On : 22 Feb 2011 8:17 am Operator: MW
Sample : VO01B28C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 8:39 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1395338	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.99	117	1214348	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	423579	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	392109	9.38	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	93.80%	
40) 1,2-Dichloroethane-d4	8.19	65	310936	9.51	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	95.10%	
55) Toluene-d8	11.29	98	1631825	10.32	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	103.20%	
76) 4-Bromofluorobenzene	16.29	95	499622	10.40	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	104.00%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.20	85	224617	9.20	ug/l	99
4) Chloromethane	2.47	50	426614	8.94	ug/l	99
5) Vinyl chloride	2.63	62	378495	9.29	ug/l	99
6) Bromomethane	3.18	94	270084	8.91	ug/l	98
7) Chloroethane	3.25	64	311819	9.86	ug/l	98
8) Dichlorofluoromethane	3.33	67	675777	8.27	ug/l	100
9) Trichlorofluoromethane	3.62	101	474089	10.22	ug/l	98
11) Acrolein	4.13	56	105027	46.71	ug/l #	69
12) 1,1,2-Trichloro-1,2,2-trif	4.17	151	223342	10.05	ug/l	100
13) Acetone	4.21	43	253077	45.98	ug/l	95
14) 1,1-Dichloroethene	4.38	61	596654	9.29	ug/l	98
15) tert-Butyl alcohol	4.52	59	116955	57.15	ug/l #	69
17) Iodomethane	4.79	142	534581	7.90	ug/l	98
19) Methylene chloride	5.03	49	536513	8.03	ug/l	97
20) Carbon disulfide	5.06	76	1573644	9.47	ug/l	100
21) Acrylonitrile	5.19	53	355891	48.85	ug/l	99
22) tert-Butyl methyl ether (M	5.25	73	574413	9.05	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	652329	9.06	ug/l	97
24) Isopropyl ether (DIPE)	5.87	45	1600148	9.06	ug/l	98
25) Vinyl acetate	6.02	43	687067	10.60	ug/l	97
26) 1,1-Dichloroethane	6.02	63	798852	9.06	ug/l	99
28) tert-Butyl ethyl ether (ET	6.46	59	917471	8.73	ug/l	98
29) 2-Butanone	6.64	43	480311	46.60	ug/l	97
30) 2,2-Dichloropropane	6.83	77	520428	9.80	ug/l	99
31) cis-1,2-Dichloroethene	6.89	96	479163	9.27	ug/l	97
32) Chloroform	7.13	83	667157	8.77	ug/l	99
33) Bromochloromethane	7.37	49	335546	8.79	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV570.D Vial: 5
Acq On : 22 Feb 2011 8:17 am Operator: MW
Sample : VO01B28C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 8:39 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.72	97	507648	9.20 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	139603	8.96 ug/l	95
42) 1,1-Dichloropropene	7.96	110	220304	9.45 ug/l	99
43) Carbon tetrachloride	8.11	119	425956	9.27 ug/l	95
44) 1,2-Dichloroethane	8.33	62	360053	8.85 ug/l	99
45) Benzene	8.37	78	1790297	9.47 ug/l	99
46) Trichloroethene	9.32	130	455305	9.08 ug/l	98
48) 1,2-Dichloropropane	9.60	63	471050	9.03 ug/l	97
49) 1,4-Dioxane	10.03	88	34799	211.12 ug/l	74
50) Bromodichloromethane	9.97	83	491352	8.80 ug/l	98
51) Dibromomethane	10.06	93	160485	8.04 ug/l	98
52) 2-Chloroethyl vinyl ether	10.47	63	57712	4.46 ug/l	98
53) 4-Methyl-2-pentanone	10.53	43	1135008	42.45 ug/l	97
54) cis-1,3-Dichloropropene	10.87	75	644184	9.13 ug/l	98
56) Toluene	11.43	91	1829125	9.47 ug/l	99
57) Ethyl methacrylate	11.72	69	316675	8.41 ug/l	100
58) trans-1,3-Dichloropropene	11.73	75	446015	8.97 ug/l	96
59) 2-Hexanone	12.03	43	703106	42.24 ug/l	98
60) 1,1,2-Trichloroethane	12.01	97	244795	9.18 ug/l	97
61) 1,3-Dichloropropane	12.46	76	465600	8.89 ug/l	98
62) Tetrachloroethene	12.57	164	358131	9.49 ug/l	97
63) Dibromochloromethane	12.93	129	276806	8.42 ug/l	99
64) 1,2-Dibromoethane	13.30	107	213892	8.16 ug/l	99
65) 1-Chlorohexane	13.58	91	775802	9.81 ug/l	98
66) Chlorobenzene	14.07	112	1076484	9.31 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.14	131	341589	9.18 ug/l	98
68) Ethylbenzene	14.16	91	2056050	9.34 ug/l	99
69) m-Xylene & p-Xylene	14.30	91	2982635	18.44 ug/l	100
70) o-Xylene	15.12	91	1470932	9.31 ug/l	100
71) Styrene	15.19	104	1123729	9.44 ug/l	99
73) Isopropylbenzene	15.81	105	1801059	9.68 ug/l	98
74) Bromoform	15.84	173	134248	8.57 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.14	83	260392	8.58 ug/l	99
77) 1,2,3-Trichloropropane	16.42	110	64751	8.48 ug/l	98
78) trans-1,4-Dichloro-2-buten	16.55	53	70796	9.04 ug/l	100
79) n-Propylbenzene	16.58	91	2395440	9.70 ug/l	99
80) Bromobenzene	16.67	156	363813	9.35 ug/l	98
81) 1,3,5-Trimethylbenzene	16.89	105	1399278	9.56 ug/l	97
82) 2-Chlorotoluene	16.92	91	1497556	9.96 ug/l	97
83) 4-Chlorotoluene	17.03	91	1156779	8.94 ug/l	94
84) tert-Butylbenzene	17.59	134	337105	10.14 ug/l	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV570.D Vial: 5
Acq On : 22 Feb 2011 8:17 am Operator: MW
Sample : VO01B28C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 8:39 2011 Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

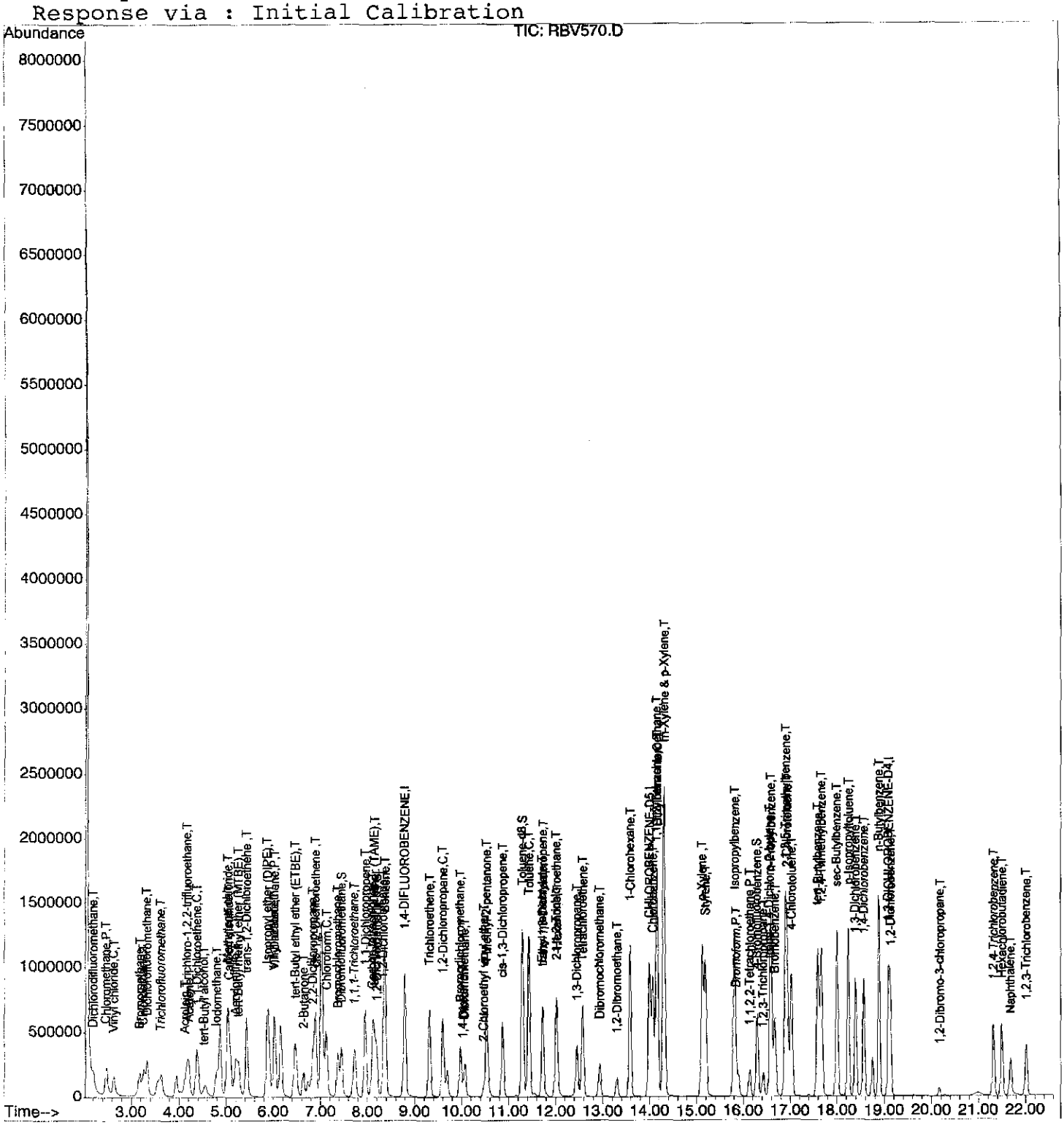
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85)	1,2,4-Trimethylbenzene	17.66	105	1375022	9.51 ug/l	96
86)	sec-Butylbenzene	17.99	105	1984037	9.73 ug/l	98
87)	p-Isopropyltoluene	18.24	119	1529448	9.83 ug/l	99
88)	1,3-Dichlorobenzene	18.39	146	737560	9.39 ug/l	98
89)	1,4-Dichlorobenzene	18.57	146	705173	9.34 ug/l	98
90)	n-Butylbenzene	18.88	91	1582717	9.70 ug/l	99
91)	1,2-Dichlorobenzene	19.13	146	595488	9.33 ug/l	98
92)	1,2-Dibromo-3-chloropropan	20.18	157	32753	8.66 ug/l	99
93)	1,2,4-Trichlorobenzene	21.32	180	364024	9.38 ug/l	98
94)	Hexachlorobutadiene	21.50	225	232934	9.40 ug/l	98
95)	Naphthalene	21.67	128	459286	10.22 ug/l	99
96)	1,2,3-Trichlorobenzene	22.01	180	277167	8.93 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV570.D Vial: 5
Acq On : 22 Feb 2011 8:17 am Operator: MW
Sample : VO01B28C Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 8:39 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV596.D
Acq On : 22 Feb 2011 10:25 pm
Sample : VO01B29B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Feb 23 7:30 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1395824	10.00	ug/l	-0.03
41) CHLOROBENZENE-D5	13.99	117	1248044	10.00	ug/l	-0.03
72) 1,2-DICHLOROBENZENE-D4	19.08	152	434125	10.00	ug/l	-0.01
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	401241	9.59	ug/l	-0.03
Spiked Amount 10.000			Recovery =	95.90%		
40) 1,2-Dichloroethane-d4	8.19	65	329016	10.06	ug/l	-0.01
Spiked Amount 10.000			Recovery =	100.60%		
55) Toluene-d8	11.29	98	1677423	10.32	ug/l	-0.03
Spiked Amount 10.000			Recovery =	103.20%		
76) 4-Bromofluorobenzene	16.29	95	515710	10.48	ug/l	-0.03
Spiked Amount 10.000			Recovery =	104.80%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RBV596.D VO01L11.M Wed Feb 23 07:30:56 2011

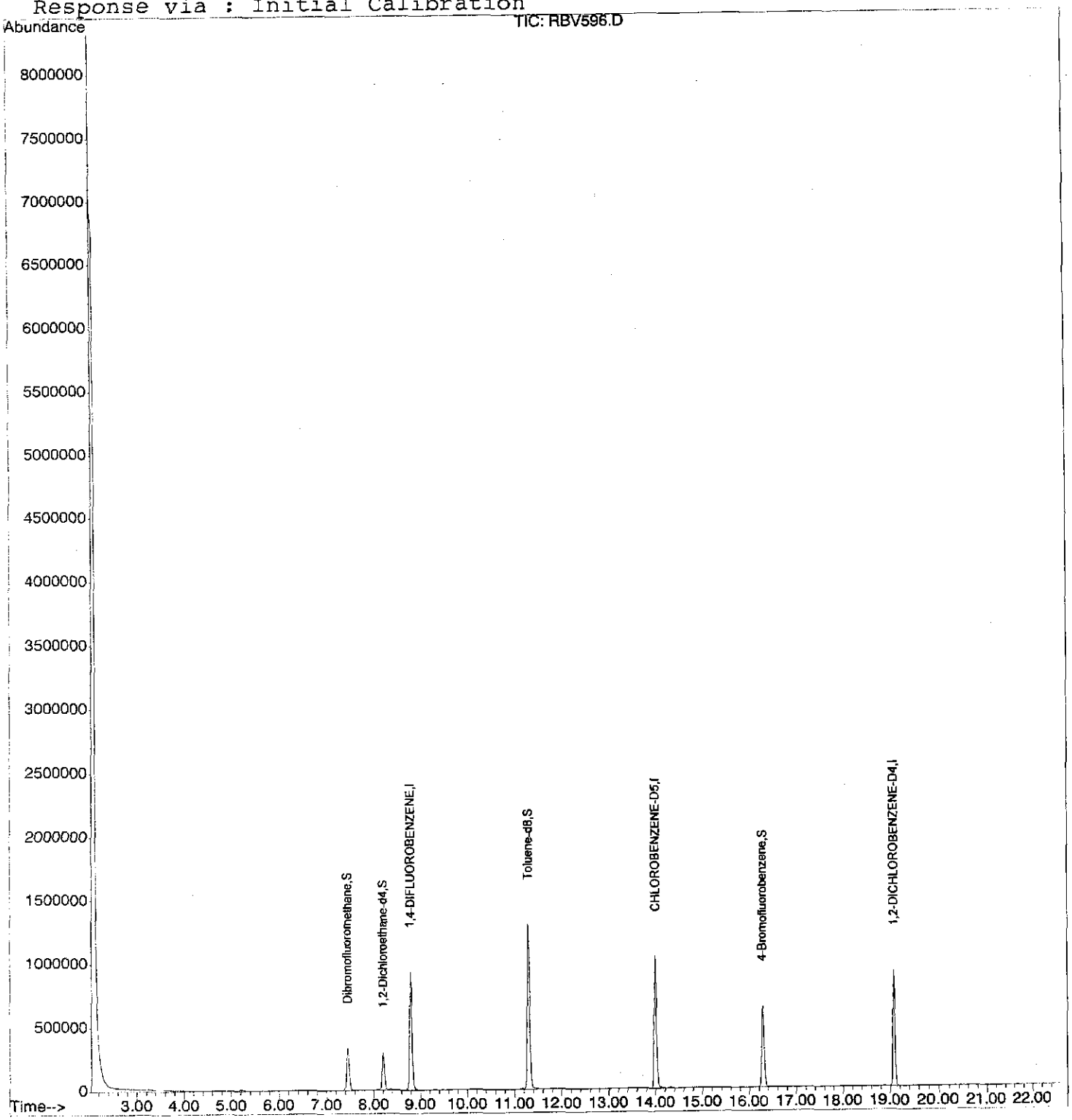
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV596.D
Acq On : 22 Feb 2011 10:25 pm
Sample : VO01B29B 25mL
Misc : BLANK
MS Integration Params: 524C.P
Quant Time: Feb 23 7:30 2011

Vial: 7
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV593.D
Acq On : 22 Feb 2011 8:49 pm
Sample : VO01B29L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:12 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1372143	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1206572	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	419016	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	394952	9.61	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	96.10%	
40) 1,2-Dichloroethane-d4	8.20	65	326479	10.15	ug/l	0.00
Spiked Amount 10.000			Recovery	=	101.50%	
55) Toluene-d8	11.29	98	1648085	10.49	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	104.90%	
76) 4-Bromofluorobenzene	16.29	95	496010	10.44	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	104.40%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	200580	8.36	ug/l	100
4) Chloromethane	2.49	50	461480	9.83	ug/l	100
5) Vinyl chloride	2.65	62	378632	9.45	ug/l	99
6) Bromomethane	3.18	94	284230	9.54	ug/l	100
7) Chloroethane	3.27	64	323739	10.41	ug/l	98
8) Dichlorofluoromethane	3.35	67	693949	8.63	ug/l	100
9) Trichlorofluoromethane	3.64	101	435498	9.55	ug/l	99
11) Acrolein	4.13	56	104142	47.10	ug/l	87
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	195835	8.96	ug/l	99
13) Acetone	4.22	43	272617	50.36	ug/l	97
14) 1,1-Dichloroethene	4.40	61	577181	9.14	ug/l	98
15) tert-Butyl alcohol	4.53	59	114969	57.13	ug/l #	76
17) Iodomethane	4.81	142	529280	7.95	ug/l	99
19) Methylene chloride	5.03	49	550889	8.38	ug/l	97
20) Carbon disulfide	5.08	76	1469295	9.00	ug/l	99
21) Acrylonitrile	5.20	53	389873	54.42	ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	625203	10.02	ug/l	100
23) trans-1,2-Dichloroethene	5.43	61	645020	9.11	ug/l	97
24) Isopropyl ether (DIPE)	5.88	45	1701550	9.80	ug/l	98
25) Vinyl acetate	6.02	43	714735	11.21	ug/l	98
26) 1,1-Dichloroethane	6.02	63	816609	9.42	ug/l	99
28) tert-Butyl ethyl ether (ET	6.47	59	1007671	9.75	ug/l	98
29) 2-Butanone	6.63	43	525111	51.81	ug/l	97
30) 2,2-Dichloropropane	6.84	77	488511	9.35	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	479340	9.43	ug/l	97
32) Chloroform	7.13	83	674329	9.01	ug/l	98
33) Bromochloromethane	7.37	49	347776	9.26	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV593.D
Acq On : 22 Feb 2011 8:49 pm
Sample : VO01B29L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:12 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	491314	9.06 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	154195	10.06 ug/l	95
42) 1,1-Dichloropropene	7.96	110	210388	9.08 ug/l	98
43) Carbon tetrachloride	8.11	119	399705	8.76 ug/l	97
44) 1,2-Dichloroethane	8.33	62	371428	9.18 ug/l	99
45) Benzene	8.38	78	1783641	9.50 ug/l	99
46) Trichloroethene	9.32	130	456169	9.16 ug/l	99
48) 1,2-Dichloropropane	9.60	63	472473	9.12 ug/l	97
49) 1,4-Dioxane	10.03	88	30572	186.67 ug/l	88
50) Bromodichloromethane	9.97	83	495605	8.93 ug/l	98
51) Dibromomethane	10.06	93	168348	8.49 ug/l	99
52) 2-Chloroethyl vinyl ether	10.48	63	68163	5.31 ug/l	98
53) 4-Methyl-2-pentanone	10.54	43	1260384	47.44 ug/l	97
54) cis-1,3-Dichloropropene	10.88	75	639872	9.13 ug/l	99
56) Toluene	11.42	91	1795215	9.35 ug/l	100
57) Ethyl methacrylate	11.72	69	336288	8.99 ug/l	99
58) trans-1,3-Dichloropropene	11.74	75	458993	9.30 ug/l	97
59) 2-Hexanone	12.03	43	774579	46.83 ug/l	98
60) 1,1,2-Trichloroethane	12.00	97	251554	9.49 ug/l	98
61) 1,3-Dichloropropane	12.46	76	484702	9.31 ug/l	99
62) Tetrachloroethene	12.58	164	345380	9.21 ug/l	97
63) Dibromochloromethane	12.93	129	288776	8.85 ug/l	98
64) 1,2-Dibromoethane	13.30	107	221713	8.52 ug/l	98
65) 1-Chlorohexane	13.58	91	720852	9.17 ug/l	99
66) Chlorobenzene	14.07	112	1076450	9.37 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.15	131	346609	9.37 ug/l	98
68) Ethylbenzene	14.16	91	2017795	9.22 ug/l	99
69) m-Xylene & p-Xylene	14.31	91	2942737	18.31 ug/l	100
70) o-Xylene	15.12	91	1479990	9.43 ug/l	99
71) Styrene	15.20	104	1122306	9.49 ug/l	99
73) Isopropylbenzene	15.80	105	1809431	9.83 ug/l	99
74) Bromoform	15.83	173	141005	9.10 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.13	83	273933	9.13 ug/l	98
77) 1,2,3-Trichloropropane	16.43	110	67561	8.95 ug/l	98
78) trans-1,4-Dichloro-2-buten	16.56	53	74365	9.60 ug/l	98
79) n-Propylbenzene	16.59	91	2357994	9.65 ug/l	99
80) Bromobenzene	16.68	156	361827	9.40 ug/l	97
81) 1,3,5-Trimethylbenzene	16.90	105	1403329	9.69 ug/l	98
82) 2-Chlorotoluene	16.93	91	1412060	9.49 ug/l	98
83) 4-Chlorotoluene	17.02	91	1242846	9.71 ug/l	99
84) tert-Butylbenzene	17.59	134	338484	10.29 ug/l	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV593.D
Acq On : 22 Feb 2011 8:49 pm
Sample : VO01B29L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:12 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1360174	9.51 ug/l	97
86) sec-Butylbenzene	17.99	105	1935124	9.59 ug/l	99
87) p-Isopropyltoluene	18.23	119	1475355	9.58 ug/l	98
88) 1,3-Dichlorobenzene	18.39	146	733216	9.44 ug/l	98
89) 1,4-Dichlorobenzene	18.57	146	709529	9.50 ug/l	98
90) n-Butylbenzene	18.88	91	1502286	9.31 ug/l	99
91) 1,2-Dichlorobenzene	19.12	146	607539	9.63 ug/l	98
92) 1,2-Dibromo-3-chloropropan	20.17	157	33904	9.06 ug/l	98
93) 1,2,4-Trichlorobenzene	21.31	180	347574	9.05 ug/l	99
94) Hexachlorobutadiene	21.50	225	207420	8.46 ug/l	97
95) Naphthalene	21.68	128	449944	10.12 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	266153	8.67 ug/l	98

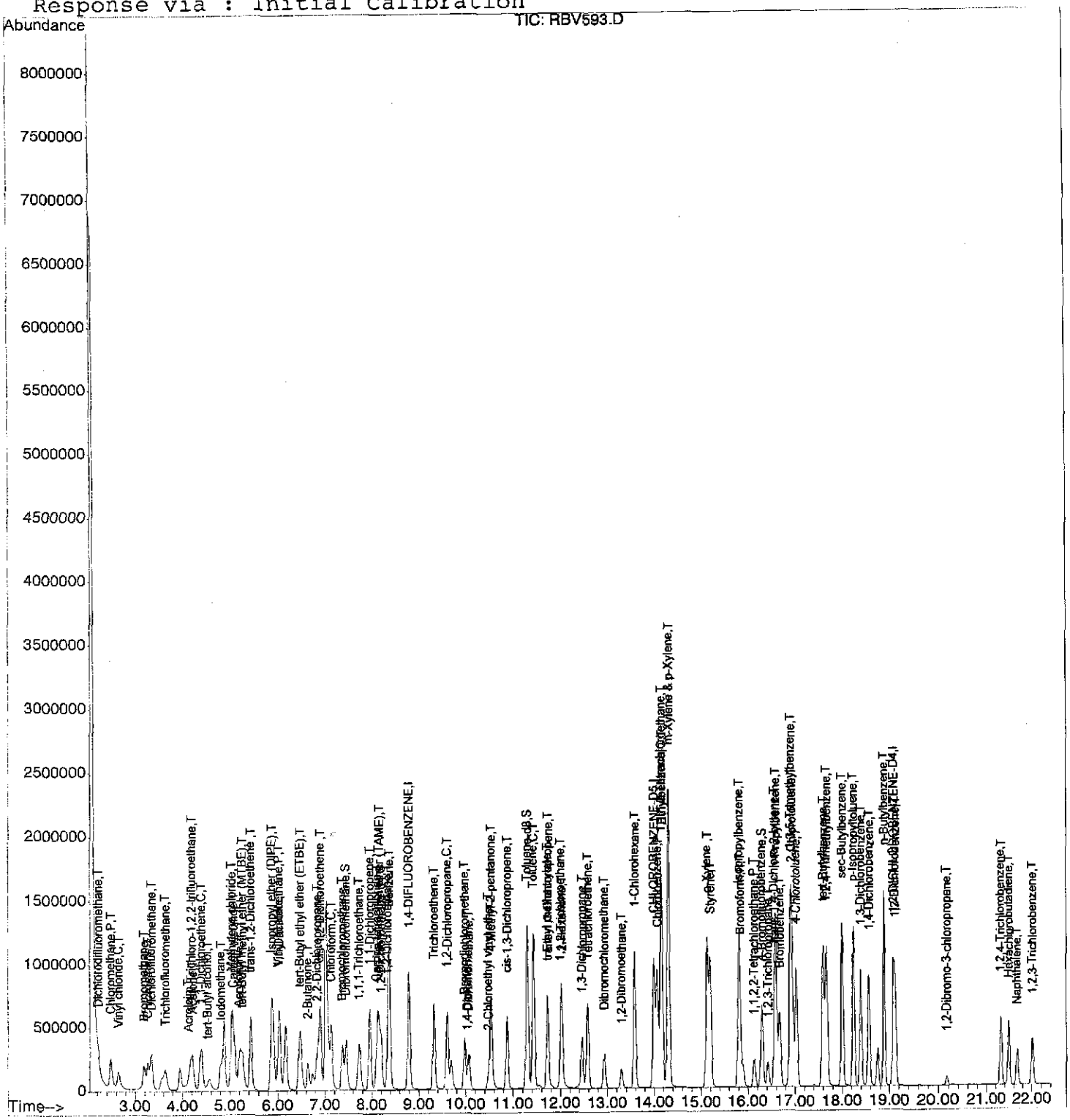
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV593.D
Acq On : 22 Feb 2011 8:49 pm
Sample : VO01B29L
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:12 2011

Vial: 4
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV594.D
Acq On : 22 Feb 2011 9:21 pm
Sample : VO01B29C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:44 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1352506	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1199125	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	398217	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	387190	9.55	ug/l	-0.02
Spiked Amount 10.000			Recovery =	95.50%		
40) 1,2-Dichloroethane-d4	8.20	65	317403	10.01	ug/l	0.00
Spiked Amount 10.000			Recovery =	100.10%		
55) Toluene-d8	11.29	98	1627632	10.42	ug/l	-0.02
Spiked Amount 10.000			Recovery =	104.20%		
76) 4-Bromofluorobenzene	16.29	95	486118	10.76	ug/l	-0.02
Spiked Amount 10.000			Recovery =	107.60%		

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.21	85	204897	8.66	ug/l	99
4) Chloromethane	2.49	50	445948	9.64	ug/l	98
5) Vinyl chloride	2.65	62	391918	9.92	ug/l	99
6) Bromomethane	3.18	94	283688	9.66	ug/l	99
7) Chloroethane	3.26	64	335872	10.96	ug/l	98
8) Dichlorofluoromethane	3.35	67	687754	8.68	ug/l	99
9) Trichlorofluoromethane	3.63	101	436448	9.71	ug/l	99
11) Acrolein	4.13	56	98919	45.39	ug/l #	63
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	200208	9.29	ug/l	98
13) Acetone	4.22	43	251570	47.15	ug/l	96
14) 1,1-Dichloroethene	4.38	61	576425	9.26	ug/l	97
15) tert-Butyl alcohol	4.53	59	103018	51.93	ug/l #	80
17) Iodomethane	4.80	142	541965	8.26	ug/l	97
19) Methylene chloride	5.03	49	557599	8.61	ug/l	98
20) Carbon disulfide	5.06	76	1484873	9.22	ug/l	100
21) Acrylonitrile	5.20	53	363564	51.48	ug/l	99
22) tert-Butyl methyl ether (M	5.26	73	599142	9.74	ug/l	99
23) trans-1,2-Dichloroethene	5.43	61	650506	9.33	ug/l	97
24) Isopropyl ether (DIPE)	5.88	45	1673151	9.78	ug/l	98
25) Vinyl acetate	6.02	43	686459	10.93	ug/l	98
26) 1,1-Dichloroethane	6.02	63	816857	9.56	ug/l	99
28) tert-Butyl ethyl ether (ET	6.47	59	970953	9.53	ug/l	99
29) 2-Butanone	6.63	43	482905	48.34	ug/l	97
30) 2,2-Dichloropropane	6.84	77	492752	9.57	ug/l	100
31) cis-1,2-Dichloroethene	6.90	96	477729	9.54	ug/l	98
32) Chloroform	7.13	83	683236	9.27	ug/l	99
33) Bromochloromethane	7.37	49	337765	9.13	ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV594.D
Acq On : 22 Feb 2011 9:21 pm
Sample : VO01B29C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:44 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	500369	9.36 ug/l	98
39) tert-Amyl methyl ether (TA	8.14	87	149759	9.91 ug/l	94
42) 1,1-Dichloropropene	7.96	110	212024	9.21 ug/l	99
43) Carbon tetrachloride	8.11	119	400575	8.83 ug/l	97
44) 1,2-Dichloroethane	8.33	62	365285	9.09 ug/l	99
45) Benzene	8.36	78	1782236	9.55 ug/l	99
46) Trichloroethene	9.32	130	469552	9.49 ug/l	98
48) 1,2-Dichloropropane	9.61	63	479610	9.31 ug/l	97
49) 1,4-Dioxane	10.03	88	29632	182.05 ug/l	96
50) Bromodichloromethane	9.98	83	497684	9.03 ug/l	99
51) Dibromomethane	10.06	93	162915	8.26 ug/l	98
52) 2-Chloroethyl vinyl ether	10.46	63	64438	5.05 ug/l	98
53) 4-Methyl-2-pentanone	10.54	43	1155096	43.74 ug/l	97
54) cis-1,3-Dichloropropene	10.88	75	644491	9.25 ug/l	99
56) Toluene	11.43	91	1839854	9.65 ug/l	100
57) Ethyl methacrylate	11.72	69	324999	8.74 ug/l	100
58) trans-1,3-Dichloropropene	11.74	75	458399	9.34 ug/l	96
59) 2-Hexanone	12.03	43	718137	43.69 ug/l	98
60) 1,1,2-Trichloroethane	12.00	97	252536	9.59 ug/l	97
61) 1,3-Dichloropropane	12.45	76	485658	9.39 ug/l	99
62) Tetrachloroethene	12.58	164	353245	9.48 ug/l	97
63) Dibromochloromethane	12.93	129	284512	8.77 ug/l	97
64) 1,2-Dibromoethane	13.30	107	218185	8.43 ug/l	98
65) 1-Chlorohexane	13.59	91	729282	9.34 ug/l	100
66) Chlorobenzene	14.06	112	1109421	9.72 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.15	131	352953	9.60 ug/l	97
68) Ethylbenzene	14.16	91	2062153	9.48 ug/l	100
69) m-Xylene & p-Xylene	14.30	91	2993716	18.74 ug/l	100
70) o-Xylene	15.12	91	1511824	9.69 ug/l	99
71) Styrene	15.20	104	1143560	9.73 ug/l	99
73) Isopropylbenzene	15.81	105	1824532	10.43 ug/l	99
74) Bromoform	15.83	173	135387	9.19 ug/l	97
75) 1,1,2,2-Tetrachloroethane	16.13	83	263601	9.24 ug/l	98
77) 1,2,3-Trichloropropane	16.43	110	65612	9.14 ug/l	98
78) trans-1,4-Dichloro-2-buten	16.56	53	69854	9.49 ug/l	99
79) n-Propylbenzene	16.59	91	2356809	10.15 ug/l	99
80) Bromobenzene	16.68	156	363619	9.94 ug/l	98
81) 1,3,5-Trimethylbenzene	16.90	105	1409972	10.24 ug/l	98
82) 2-Chlorotoluene	16.93	91	1426861	10.09 ug/l	96
83) 4-Chlorotoluene	17.02	91	1235023	10.15 ug/l	94
84) tert-Butylbenzene	17.60	134	338731	10.83 ug/l	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV594.D
Acq On : 22 Feb 2011 9:21 pm
Sample : VO01B29C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:44 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1372390	10.09 ug/l	97
86) sec-Butylbenzene	17.99	105	1948756	10.16 ug/l	98
87) p-Isopropyltoluene	18.23	119	1460097	9.98 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	725246	9.82 ug/l	98
89) 1,4-Dichlorobenzene	18.57	146	696521	9.82 ug/l	98
90) n-Butylbenzene	18.88	91	1468862	9.57 ug/l	99
91) 1,2-Dichlorobenzene	19.12	146	586383	9.78 ug/l	98
92) 1,2-Dibromo-3-chloropropan	20.17	157	30863	8.68 ug/l	99
93) 1,2,4-Trichlorobenzene	21.31	180	321577	8.81 ug/l	99
94) Hexachlorobutadiene	21.50	225	198625	8.52 ug/l	97
95) Naphthalene	21.68	128	410212	9.71 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	243881	8.36 ug/l	99

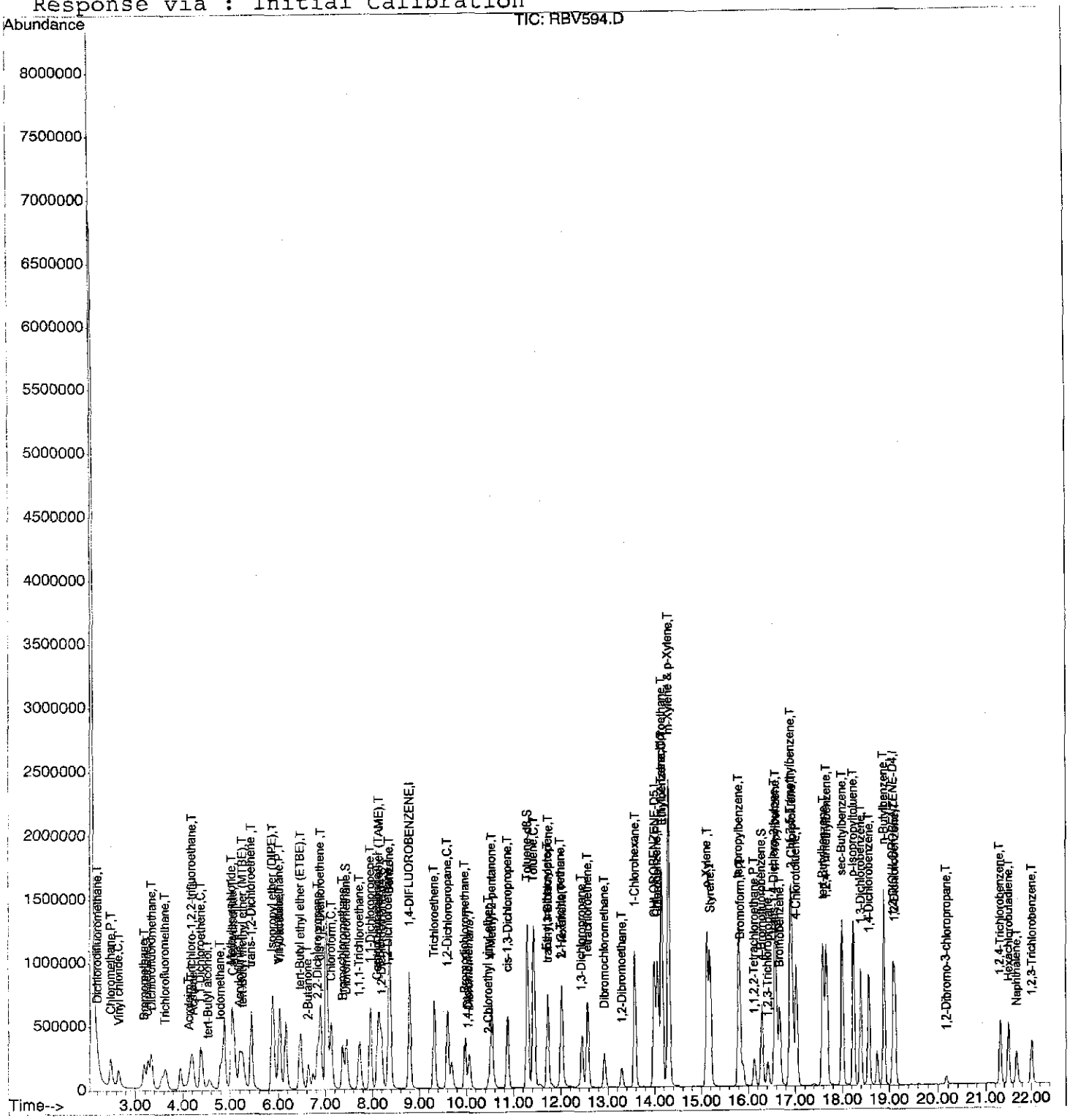
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV594.D
Acq On : 22 Feb 2011 9:21 pm
Sample : VO01B29C
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 21:44 2011

Vial: 5
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB475.D
Acq On : 24 Feb 2011 12:09 pm
Sample : VO03B28B 25mL
Misc : BLANK
MS Integration Params: 524INT.P
Quant Time: Feb 25 6:57 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1595956	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.53	117	1423940	10.00	ug/l	-0.03
70) 1,2-DICHLOROBENZENE-D4	23.08	152	540992	10.00	ug/l	-0.03
System Monitoring Compounds						
34) Dibromofluoromethane	11.86	111	675573	9.86	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.60%	
38) 1,2-Dichloroethane-d4	12.76	65	671919	10.01	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	100.10%	
53) Toluene-d8	16.03	98	2035557	9.44	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	94.40%	
74) 4-Bromofluorobenzene	20.46	95	772948	9.29	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	92.90%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RBB475.D VO03B16.M Fri Feb 25 06:57:52 2011

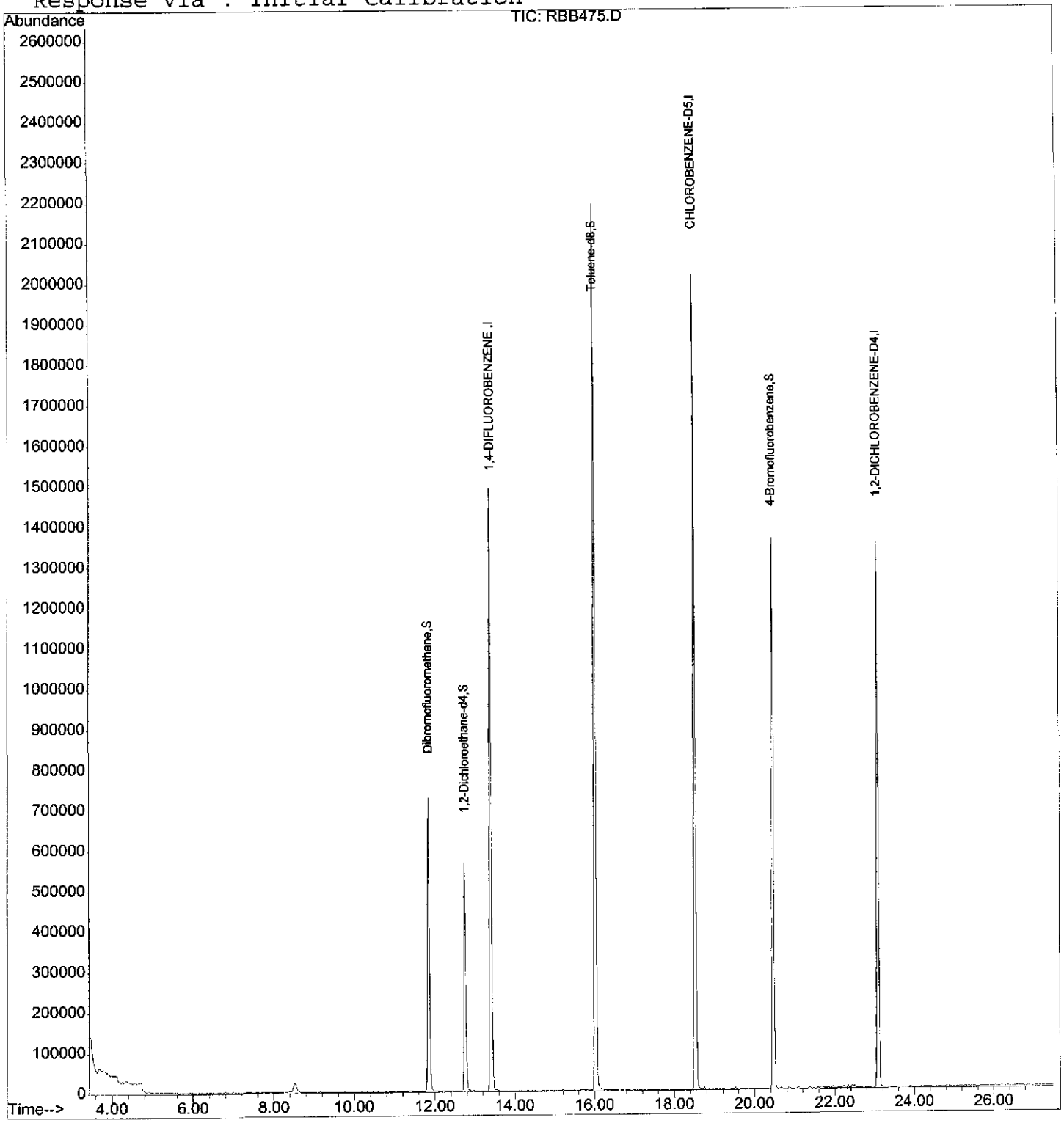
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB475.D
Acq On : 24 Feb 2011 12:09 pm
Sample : VO03B28B 25mL
Misc : BLANK
MS Integration Params: 524INT.P
Quant Time: Feb 25 6:57 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB472.D Vial: 5
Acq On : 24 Feb 2011 10:04 am Operator: MW
Sample : VO03B28C Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 10:32 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1669687	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.53	117	1554121	10.00	ug/l	-0.03
70) 1,2-DICHLOROBENZENE-D4	23.08	152	671693	10.00	ug/l	-0.03
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	752678	10.50	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	105.00%	
38) 1,2-Dichloroethane-d4	12.76	65	730677	10.40	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	104.00%	
53) Toluene-d8	16.02	98	2153163	9.14	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	91.40%	
74) 4-Bromofluorobenzene	20.46	95	908429	8.79	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	87.90%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.57	85	763419	10.77	ug/l	100
4) Chloromethane	4.07	50	801753	11.08	ug/l	99
5) Vinyl chloride	4.33	62	718077	11.22	ug/l	96
6) Bromomethane	5.27	94	498750	10.57	ug/l	99
7) Chloroethane	5.45	64	280491	10.03	ug/l	91
8) Dichlorofluoromethane	5.53	67	1195770	10.38	ug/l	100
9) Trichlorofluoromethane	5.99	101	1021185	11.43	ug/l	98
10) Acrolein	6.87	56	71024	49.21	ug/l	92
11) 1,1,2-Trichloro-1,2,2-trif	6.91	151	341631	9.42	ug/l	97
12) Acetone	6.98	43	361655	52.16	ug/l	98
13) 1,1-Dichloroethene	7.33	61	1046910	9.82	ug/l	99
14) tert-Butyl alcohol	7.43	59	97290	49.57	ug/l	93
15) Acetonitrile	7.60	39	36684	82.37	ug/l	93
17) Iodomethane	8.04	142	935666	9.11	ug/l	97
18) Methylene chloride	8.41	49	674009	9.26	ug/l	98
19) Carbon disulfide	8.49	76	1691410	9.16	ug/l	100
20) Acrylonitrile	8.65	53	302394	54.34	ug/l	99
21) tert-Butyl methyl ether (M	8.68	73	806374	10.36	ug/l	98
22) trans-1,2-Dichloroethene	9.04	61	987454	9.76	ug/l	97
23) Isopropyl ether (DIPE)	9.64	45	1791043	9.65	ug/l	99
24) Vinyl acetate	9.89	43	598919	10.96	ug/l	100
25) 1,1-Dichloroethane	9.93	63	1084277	9.37	ug/l	99
26) 2-Butanol	10.37	45	1007	0.79	ug/l #	59
27) tert-Butyl ethyl ether (ET	10.47	59	1242009	9.59	ug/l	100
28) 2-Butanone	10.74	43	525219	49.66	ug/l	98
29) 2,2-Dichloropropane	11.05	77	648770	10.76	ug/l	97
30) cis-1,2-Dichloroethene	11.14	96	613142	9.42	ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB472.D Vial: 5
Acq On : 24 Feb 2011 10:04 am Operator: MW
Sample : VO03B28C Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 10:32 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.44	83	1369275	9.89 ug/l	98
32) Bromochloromethane	11.76	49	477549	9.40 ug/l	98
33) Tetrahydrofuran	11.81	42	49866	8.21 ug/l	96
35) 1,1,1-Trichloroethane	12.20	97	1112859	9.95 ug/l	99
37) tert-Amyl methyl ether (TA	12.63	87	199928	9.15 ug/l	97
40) 1,1-Dichloropropene	12.48	110	267425	8.64 ug/l	99
41) Carbon tetrachloride	12.67	119	1077765	9.67 ug/l	98
42) 1,2-Dichloroethane	12.93	62	855724	10.23 ug/l	100
43) Benzene	12.97	78	2146639	8.69 ug/l	99
44) Trichloroethene	14.03	130	601964	8.89 ug/l	99
46) 1,2-Dichloropropane	14.33	63	521209	8.66 ug/l	90
47) 1,4-Dioxane	14.73	88	30950	176.42 ug/l	88
48) Bromodichloromethane	14.73	83	1006696	10.35 ug/l	99
49) Dibromomethane	14.85	93	355880	9.82 ug/l	98
51) 4-Methyl-2-pentanone	15.19	43	1536343	50.72 ug/l	99
52) cis-1,3-Dichloropropene	15.61	75	893166	9.87 ug/l	96
54) Toluene	16.16	91	2468485	9.04 ug/l	99
55) Ethyl methacrylate	16.29	69	403018	9.77 ug/l	100
56) trans-1,3-Dichloropropene	16.41	75	748104	11.70 ug/l	99
57) 2-Hexanone	16.60	43	1068735	52.68 ug/l	100
58) 1,1,2-Trichloroethane	16.69	97	329001	9.52 ug/l	97
59) 1,3-Dichloropropane	17.10	76	593711	9.22 ug/l	98
60) Tetrachloroethene	17.24	164	599271	9.15 ug/l	100
61) Dibromochloromethane	17.60	129	521888	11.78 ug/l	99
62) 1,2-Dibromoethane	17.94	107	392364	9.80 ug/l	99
63) 1-Chlorohexane	18.03	91	1102379	9.19 ug/l	100
64) Chlorobenzene	18.60	112	1469684	9.26 ug/l	97
65) 1,1,1,2-Tetrachloroethane	18.63	131	587218	10.11 ug/l	98
66) Ethylbenzene	18.63	91	3287684	9.38 ug/l	99
67) m-Xylene & p-Xylene	18.73	91	5206913	19.26 ug/l	98
68) o-Xylene	19.46	91	2557251	9.56 ug/l	98
69) Styrene	19.52	104	1666793	9.73 ug/l	99
71) Isopropylbenzene	20.01	105	2861450	8.54 ug/l	99
72) Bromoform	20.18	173	276319	9.42 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.30	83	384633	8.71 ug/l	100
75) 1,2,3-Trichloropropane	20.55	110	96857	9.15 ug/l	91
76) trans-1,4-Dichloro-2-buten	20.59	53	109120	10.74 ug/l	95
77) n-Propylbenzene	20.65	91	4066953	8.67 ug/l	99
78) Bromobenzene	20.86	156	669291	9.01 ug/l	99
79) 1,3,5-Trimethylbenzene	20.89	105	2623267	9.06 ug/l	99
80) 2-Chlorotoluene	21.03	91	2520512	8.77 ug/l	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB472.D Vial: 5
Acq On : 24 Feb 2011 10:04 am Operator: MW
Sample : VO03B28C Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 10:32 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

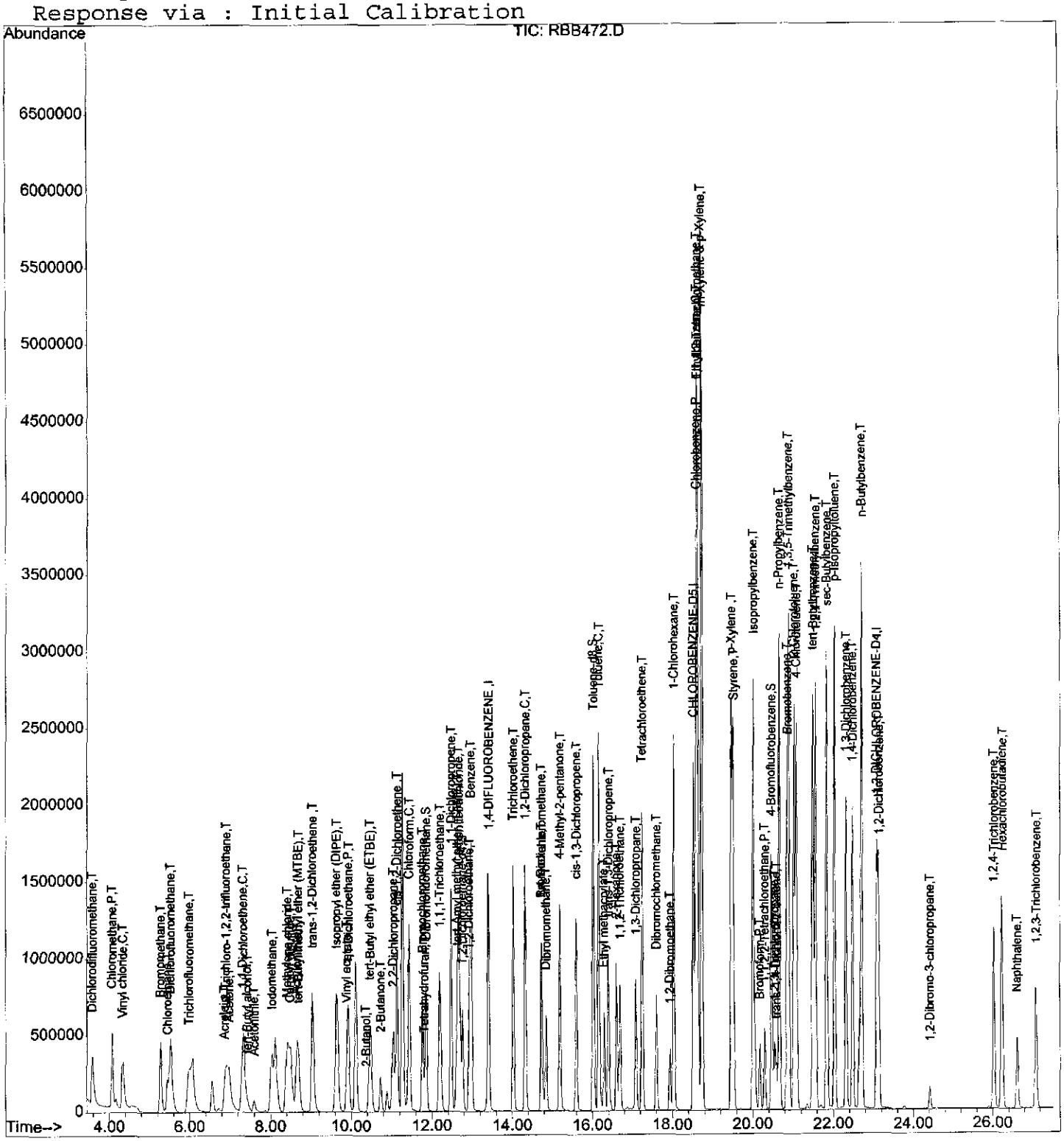
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.09	91	2128094	8.91 ug/l	88
82) tert-Butylbenzene	21.50	134	428166	8.74 ug/l	97
83) 1,2,4-Trimethylbenzene	21.56	105	2457665	8.86 ug/l	98
84) sec-Butylbenzene	21.85	105	3334957	8.95 ug/l	100
85) p-Isopropyltoluene	22.04	119	2601151	9.42 ug/l	100
86) 1,3-Dichlorobenzene	22.32	146	1175109	9.32 ug/l	99
87) 1,4-Dichlorobenzene	22.49	146	1112311	9.36 ug/l	100
88) n-Butylbenzene	22.71	91	3152625	9.93 ug/l	100
89) 1,2-Dichlorobenzene	23.14	146	939024	9.36 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.42	157	52625	10.56 ug/l	98
91) 1,2,4-Trichlorobenzene	26.03	180	608413	11.05 ug/l	99
92) Hexachlorobutadiene	26.24	225	519266	10.25 ug/l	99
93) Naphthalene	26.61	128	660025	10.23 ug/l	100
94) 1,2,3-Trichlorobenzene	27.10	180	451389	10.99 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB472.D Vial: 5
Acq On : 24 Feb 2011 10:04 am Operator: MW
Sample : VO03B28C Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 10:32 2011 Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB473.D Vial: 6
Acq On : 24 Feb 2011 10:53 am Operator: MW
Sample : VO03B28X Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 11:21 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.40	114	1513394	10.00	ug/l	-0.03
39) CHLOROBENZENE-D5	18.52	117	1377291	10.00	ug/l	-0.03
70) 1,2-DICHLOROBENZENE-D4	23.10	152	579405	10.00	ug/l	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.84	111	678115	10.44	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	104.40%	
38) 1,2-Dichloroethane-d4	12.76	65	649389	10.20	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.00%	
53) Toluene-d8	16.02	98	1945595	9.32	ug/l	-0.03
Spiked Amount 10.000			Recovery	=	93.20%	
74) 4-Bromofluorobenzene	20.48	95	802442	9.01	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	90.10%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.57	85	708323	11.03	ug/l	99
4) Chloromethane	4.07	50	712088	10.85	ug/l	99
5) Vinyl chloride	4.32	62	652851	11.25	ug/l	99
6) Bromomethane	5.26	94	448398	10.49	ug/l	98
7) Chloroethane	5.44	64	269492	10.63	ug/l	93
8) Dichlorofluoromethane	5.51	67	1107848	10.61	ug/l	99
9) Trichlorofluoromethane	5.99	101	947457	11.70	ug/l	99
10) Acrolein	6.85	56	67650	51.71	ug/l	96
11) 1,1,2-Trichloro-1,2,2-trif	6.91	151	330393	10.05	ug/l	98
12) Acetone	6.98	43	324874	51.70	ug/l	97
13) 1,1-Dichloroethene	7.31	61	1009488	10.45	ug/l	99
14) tert-Butyl alcohol	7.43	59	75325	42.34	ug/l	94
15) Acetonitrile	7.59	39	37278	92.35	ug/l #	77
17) Iodomethane	8.03	142	952585	10.23	ug/l	98
18) Methylene chloride	8.40	49	655750	9.94	ug/l	97
19) Carbon disulfide	8.47	76	1727778	10.32	ug/l	100
20) Acrylonitrile	8.64	53	273910	54.30	ug/l	97
21) tert-Butyl methyl ether (M	8.68	73	725921	10.29	ug/l	98
22) trans-1,2-Dichloroethene	9.02	61	945361	10.31	ug/l	98
23) Isopropyl ether (DIPE)	9.62	45	1633427	9.71	ug/l	99
24) Vinyl acetate	9.89	43	542808	10.96	ug/l	100
25) 1,1-Dichloroethane	9.92	63	1054162	10.05	ug/l	99
26) 2-Butanol	10.26	45	1069	0.92	ug/l #	59
27) tert-Butyl ethyl ether (ET	10.47	59	1104930	9.41	ug/l	100
28) 2-Butanone	10.72	43	478135	49.88	ug/l	100
29) 2,2-Dichloropropane	11.03	77	618940	11.33	ug/l	98
30) cis-1,2-Dichloroethene	11.14	96	563868	9.56	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB473.D Vial: 6
Acq On : 24 Feb 2011 10:53 am Operator: MW
Sample : VO03B28X Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 11:21 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31)	Chloroform	11.44	83	1276650	10.17 ug/l	100
32)	Bromochloromethane	11.75	49	437655	9.50 ug/l	97
33)	Tetrahydrofuran	11.79	42	46339	8.42 ug/l	95
35)	1,1,1-Trichloroethane	12.20	97	1073979	10.60 ug/l	99
37)	tert-Amyl methyl ether (TA	12.63	87	182175	9.19 ug/l	94
40)	1,1-Dichloropropene	12.46	110	253944	9.26 ug/l	99
41)	Carbon tetrachloride	12.67	119	1031782	10.45 ug/l	98
42)	1,2-Dichloroethane	12.93	62	784666	10.58 ug/l	99
43)	Benzene	12.97	78	1943645	8.88 ug/l	99
44)	Trichloroethene	14.03	130	562255	9.37 ug/l	97
46)	1,2-Dichloropropane	14.33	63	488984	9.17 ug/l	94
47)	1,4-Dioxane	14.73	88	29717	191.14 ug/l	85
48)	Bromodichloromethane	14.73	83	917722	10.65 ug/l	98
49)	Dibromomethane	14.85	93	322246	10.04 ug/l	98
51)	4-Methyl-2-pentanone	15.19	43	1386994	51.66 ug/l	98
52)	cis-1,3-Dichloropropene	15.59	75	825277	10.30 ug/l	97
54)	Toluene	16.16	91	2236033	9.24 ug/l	100
55)	Ethyl methacrylate	16.29	69	355718	9.73 ug/l	99
56)	trans-1,3-Dichloropropene	16.40	75	688467	12.15 ug/l	99
57)	2-Hexanone	16.60	43	899811	50.05 ug/l	99
58)	1,1,2-Trichloroethane	16.69	97	287277	9.38 ug/l	98
59)	1,3-Dichloropropane	17.10	76	552657	9.69 ug/l	99
60)	Tetrachloroethene	17.24	164	560811	9.66 ug/l	99
61)	Dibromochloromethane	17.60	129	470457	11.99 ug/l	100
62)	1,2-Dibromoethane	17.94	107	348634	9.82 ug/l	100
63)	1-Chlorohexane	18.03	91	1012209	9.52 ug/l	99
64)	Chlorobenzene	18.60	112	1341377	9.54 ug/l	98
65)	1,1,1,2-Tetrachloroethane	18.63	131	531807	10.33 ug/l	97
66)	Ethylbenzene	18.63	91	2961714	9.53 ug/l	99
67)	m-Xylene & p-Xylene	18.73	91	4668951	19.48 ug/l	97
68)	o-Xylene	19.46	91	2295467	9.68 ug/l	97
69)	Styrene	19.52	104	1459975	9.62 ug/l	98
71)	Isopropylbenzene	20.01	105	2569066	8.89 ug/l	99
72)	Bromoform	20.18	173	243389	9.61 ug/l	97
73)	1,1,2,2-Tetrachloroethane	20.30	83	340021	8.93 ug/l	99
75)	1,2,3-Trichloropropane	20.55	110	86267	9.44 ug/l	90
76)	trans-1,4-Dichloro-2-buten	20.59	53	100218	11.39 ug/l	96
77)	n-Propylbenzene	20.67	91	3682886	9.10 ug/l	99
78)	Bromobenzene	20.86	156	586584	9.16 ug/l	96
79)	1,3,5-Trimethylbenzene	20.89	105	2230215	8.93 ug/l	99
80)	2-Chlorotoluene	21.03	91	2202704	8.88 ug/l	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB473.D Vial: 6
Acq On : 24 Feb 2011 10:53 am Operator: MW
Sample : VO03B28X Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 11:21 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

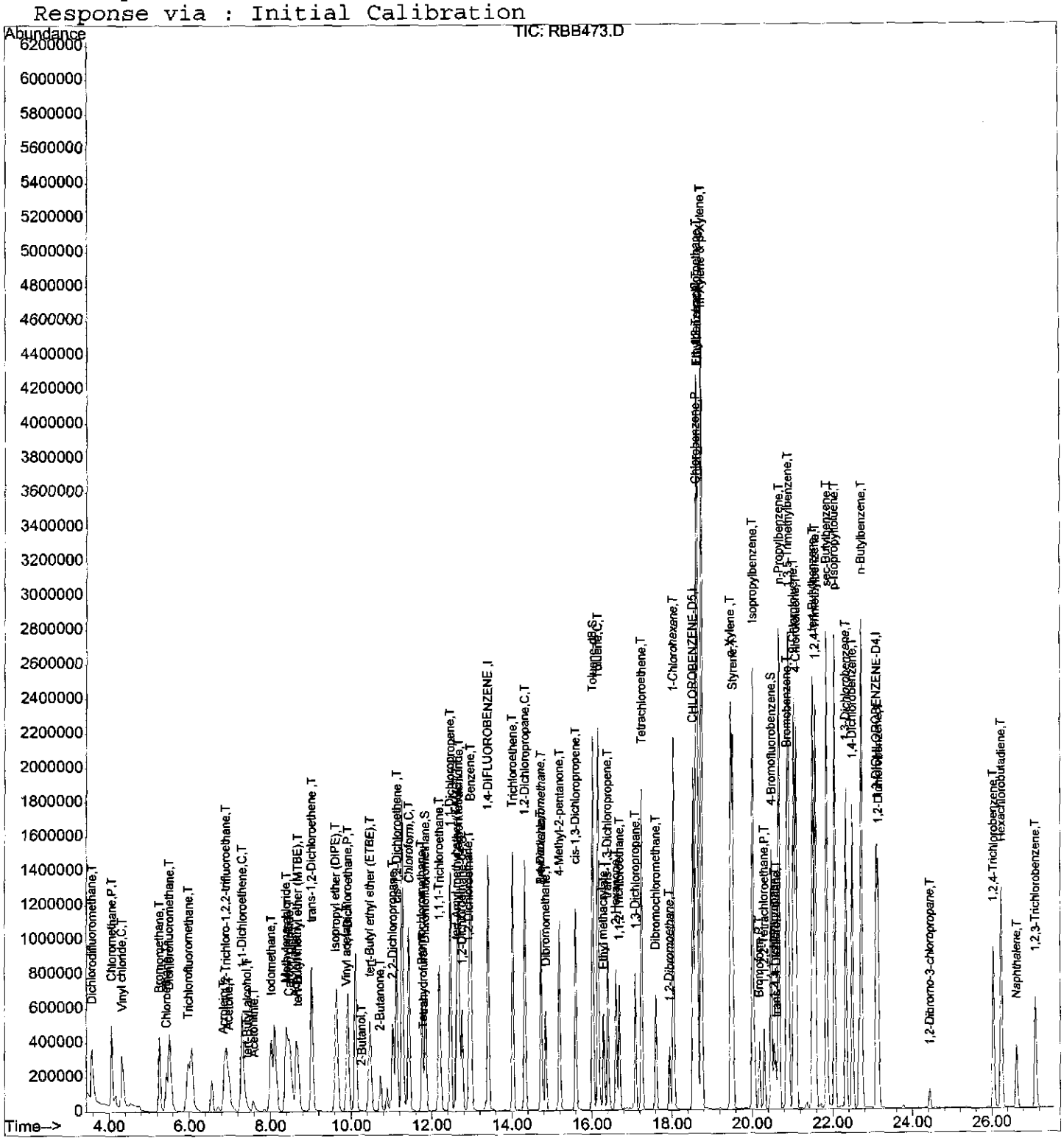
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.09	91	1953897	9.49 ug/l	89
82) tert-Butylbenzene	21.50	134	389237	9.21 ug/l	98
83) 1,2,4-Trimethylbenzene	21.56	105	2139627	8.94 ug/l	100
84) sec-Butylbenzene	21.85	105	2892434	9.00 ug/l	100
85) p-Isopropyltoluene	22.04	119	2242341	9.42 ug/l	99
86) 1,3-Dichlorobenzene	22.32	146	1052523	9.68 ug/l	99
87) 1,4-Dichlorobenzene	22.49	146	981449	9.57 ug/l	99
88) n-Butylbenzene	22.71	91	2542892	9.29 ug/l	96
89) 1,2-Dichlorobenzene	23.14	146	822552	9.51 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.44	157	42567	9.90 ug/l	95
91) 1,2,4-Trichlorobenzene	26.03	180	482273	10.16 ug/l	99
92) Hexachlorobutadiene	26.24	225	451364	10.33 ug/l	97
93) Naphthalene	26.63	128	533420	9.59 ug/l	100
94) 1,2,3-Trichlorobenzene	27.10	180	360573	10.18 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB473.D Vial: 6
Acq On : 24 Feb 2011 10:53 am Operator: MW
Sample : VO03B28X Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 11:21 2011 Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB489.D
Acq On : 25 Feb 2011 2:12 pm
Sample : VO03B29B 25mL
Misc : BLANK
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:21 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1820853	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	18.54	117	1584645	10.00	ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.10	152	631256	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	11.87	111	758124	9.70	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.00%	
38) 1,2-Dichloroethane-d4	12.78	65	745420	9.73	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.30%	
53) Toluene-d8	16.04	98	2345399	9.77	ug/l	0.00
Spiked Amount 10.000			Recovery	=	97.70%	
74) 4-Bromofluorobenzene	20.48	95	893394	9.20	ug/l	0.00
Spiked Amount 10.000			Recovery	=	92.00%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
RBB489.D VO03B16.M Mon Feb 28 08:21:22 2011

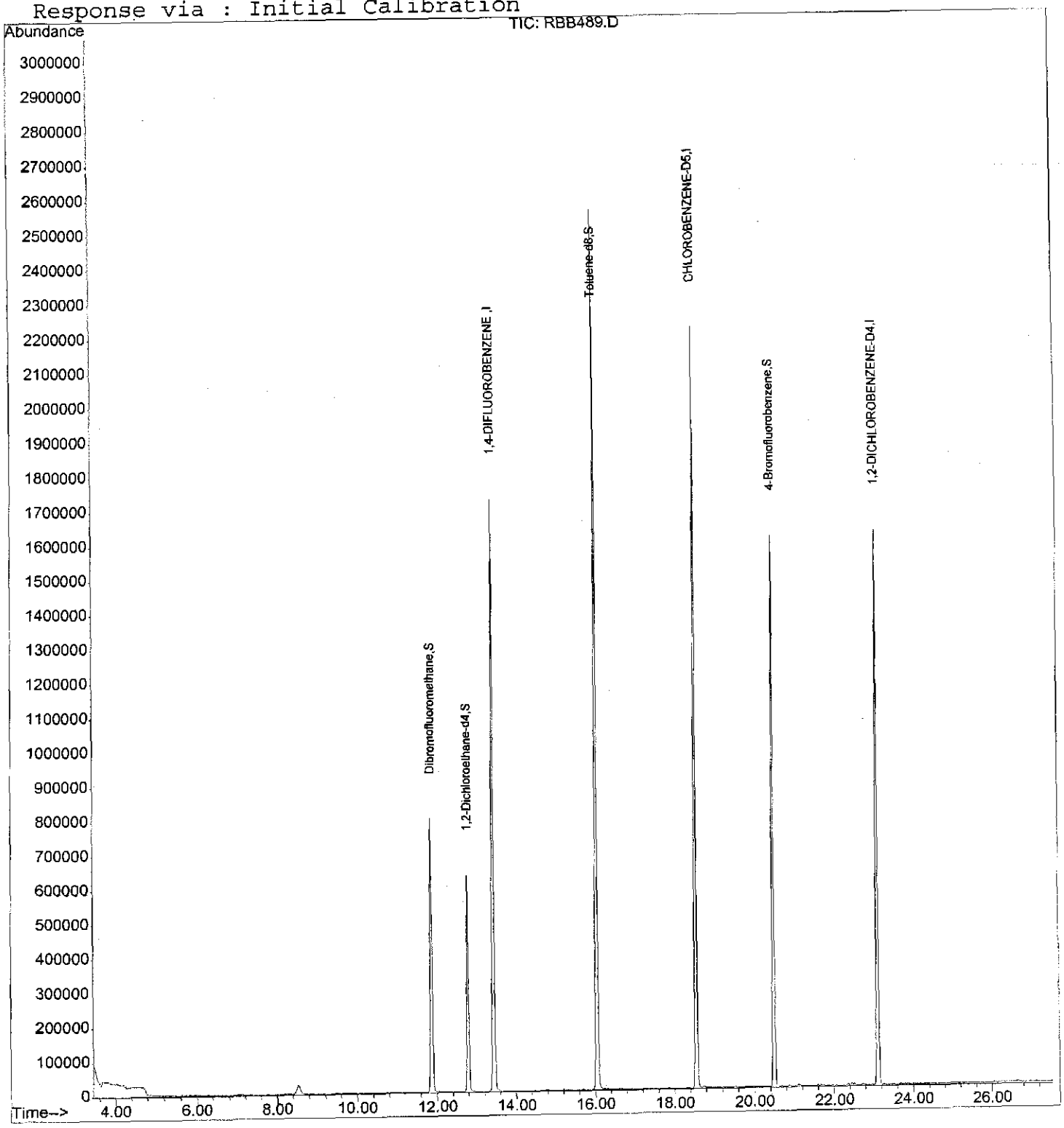
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB489.D
Acq On : 25 Feb 2011 2:12 pm
Sample : VO03B29B 25mL
Misc : BLANK
MS Integration Params: 524INT.P
Quant Time: Feb 28 8:21 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB485.D
Acq On : 25 Feb 2011 11:07 am
Sample : VO03B29L
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 11:34 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1732951	10.00	ug/l	-0.02
39) CHLOROBENZENE-D5	18.54	117	1595040	10.00	ug/l	-0.02
70) 1,2-DICHLOROBENZENE-D4	23.10	152	689510	10.00	ug/l	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	765452	10.29	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.90%	
38) 1,2-Dichloroethane-d4	12.78	65	743316	10.20	ug/l	0.00
Spiked Amount 10.000			Recovery	=	102.00%	
53) Toluene-d8	16.04	98	2241204	9.27	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	92.70%	
74) 4-Bromofluorobenzene	20.47	95	939324	8.86	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	88.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.57	85	788718	10.72	ug/l	98
4) Chloromethane	4.07	50	826981	11.01	ug/l	99
5) Vinyl chloride	4.33	62	714132	10.75	ug/l	99
6) Bromomethane	5.27	94	532047	10.87	ug/l	97
7) Chloroethane	5.45	64	302529	10.42	ug/l	99
8) Dichlorofluoromethane	5.52	67	1171971	9.81	ug/l	98
9) Trichlorofluoromethane	6.00	101	1063892	11.47	ug/l	99
10) Acrolein	6.86	56	84215	56.22	ug/l	94
11) 1,1,2-Trichloro-1,2,2-trif	6.92	151	352614	9.37	ug/l	99
12) Acetone	7.00	43	369067	51.29	ug/l	99
13) 1,1-Dichloroethene	7.33	61	1054179	9.53	ug/l	99
14) tert-Butyl alcohol	7.45	59	96094	47.17	ug/l	97
15) Acetonitrile	7.59	39	34839	75.38	ug/l	93
17) Iodomethane	8.04	142	1011192	9.48	ug/l	98
18) Methylene chloride	8.41	49	694271	9.19	ug/l	99
19) Carbon disulfide	8.49	76	1816876	9.48	ug/l	100
20) Acrylonitrile	8.65	53	311343	53.91	ug/l	99
21) tert-Butyl methyl ether (M	8.70	73	805114	9.97	ug/l	99
22) trans-1,2-Dichloroethene	9.04	61	1035013	9.86	ug/l	97
23) Isopropyl ether (DIPE)	9.65	45	1714842	8.90	ug/l	97
24) Vinyl acetate	9.90	43	631232	11.13	ug/l	100
25) 1,1-Dichloroethane	9.93	63	1158634	9.65	ug/l	100
26) 2-Butanol	10.30	45	2039	1.53	ug/l #	59
27) tert-Butyl ethyl ether (ET	10.48	59	1325732	9.86	ug/l	100
28) 2-Butanone	10.74	43	577337	52.59	ug/l	99
29) 2,2-Dichloropropane	11.05	77	677221	10.82	ug/l	97
30) cis-1,2-Dichloroethene	11.15	96	633077	9.37	ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB485.D
Acq On : 25 Feb 2011 11:07 am
Sample : VO03B29L
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 11:34 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	1401916	9.76 ug/l	98
32) Bromochloromethane	11.76	49	517796	9.82 ug/l	99
33) Tetrahydrofuran	11.82	42	56944	9.04 ug/l	97
35) 1,1,1-Trichloroethane	12.21	97	1171800	10.10 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	216041	9.52 ug/l	94
40) 1,1-Dichloropropene	12.49	110	284718	8.96 ug/l	99
41) Carbon tetrachloride	12.69	119	1134633	9.92 ug/l	99
42) 1,2-Dichloroethane	12.94	62	848593	9.88 ug/l	99
43) Benzene	12.98	78	2243958	8.85 ug/l	100
44) Trichloroethene	14.04	130	639311	9.20 ug/l	99
46) 1,2-Dichloropropane	14.34	63	571413	9.25 ug/l	94
47) 1,4-Dioxane	14.74	88	30709	170.56 ug/l	95
48) Bromodichloromethane	14.74	83	1030334	10.33 ug/l	99
49) Dibromomethane	14.86	93	364500	9.80 ug/l	99
51) 4-Methyl-2-pentanone	15.20	43	1700626	54.70 ug/l	100
52) cis-1,3-Dichloropropene	15.61	75	954642	10.28 ug/l	98
54) Toluene	16.17	91	2588380	9.24 ug/l	99
55) Ethyl methacrylate	16.31	69	438605	10.36 ug/l	98
56) trans-1,3-Dichloropropene	16.41	75	794494	12.11 ug/l	98
57) 2-Hexanone	16.62	43	1180196	56.68 ug/l	98
58) 1,1,2-Trichloroethane	16.69	97	349522	9.86 ug/l	99
59) 1,3-Dichloropropane	17.09	76	643605	9.74 ug/l	99
60) Tetrachloroethene	17.26	164	626563	9.32 ug/l	99
61) Dibromochloromethane	17.62	129	531051	11.68 ug/l	100
62) 1,2-Dibromoethane	17.94	107	411476	10.01 ug/l	97
63) 1-Chlorohexane	18.05	91	1170888	9.51 ug/l	99
64) Chlorobenzene	18.60	112	1545821	9.49 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	597248	10.02 ug/l	98
66) Ethylbenzene	18.63	91	3426651	9.52 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	5536541	19.95 ug/l	98
68) o-Xylene	19.48	91	2684683	9.78 ug/l	98
69) Styrene	19.52	104	1758784	10.00 ug/l	100
71) Isopropylbenzene	20.03	105	3024040	8.79 ug/l	99
72) Bromoform	20.19	173	283341	9.41 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.31	83	418787	9.24 ug/l	98
75) 1,2,3-Trichloropropane	20.55	110	104213	9.59 ug/l	96
76) trans-1,4-Dichloro-2-buten	20.59	53	111255	10.67 ug/l	97
77) n-Propylbenzene	20.67	91	4333243	9.00 ug/l	100
78) Bromobenzene	20.86	156	676263	8.87 ug/l	97
79) 1,3,5-Trimethylbenzene	20.91	105	2695740	9.07 ug/l	99
80) 2-Chlorotoluene	21.04	91	2825644	9.58 ug/l	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB485.D
Acq On : 25 Feb 2011 11:07 am
Sample : VO03B29L
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 11:34 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	2015114	8.22 ug/l	87
82) tert-Butylbenzene	21.50	134	453969	9.03 ug/l	96
83) 1,2,4-Trimethylbenzene	21.58	105	2631611	9.24 ug/l	99
84) sec-Butylbenzene	21.84	105	3435386	8.98 ug/l	99
85) p-Isopropyltoluene	22.05	119	2608361	9.21 ug/l	99
86) 1,3-Dichlorobenzene	22.34	146	1196102	9.25 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	1152013	9.44 ug/l	99
88) n-Butylbenzene	22.72	91	3134531	9.62 ug/l	99
89) 1,2-Dichlorobenzene	23.14	146	959006	9.31 ug/l	100
90) 1,2-Dibromo-3-chloropropan	24.44	157	53924	10.54 ug/l	97
91) 1,2,4-Trichlorobenzene	26.04	180	614994	10.88 ug/l	98
92) Hexachlorobutadiene	26.25	225	534662	10.29 ug/l	98
93) Naphthalene	26.62	128	672359	10.15 ug/l	99
94) 1,2,3-Trichlorobenzene	27.10	180	462524	10.97 ug/l	98

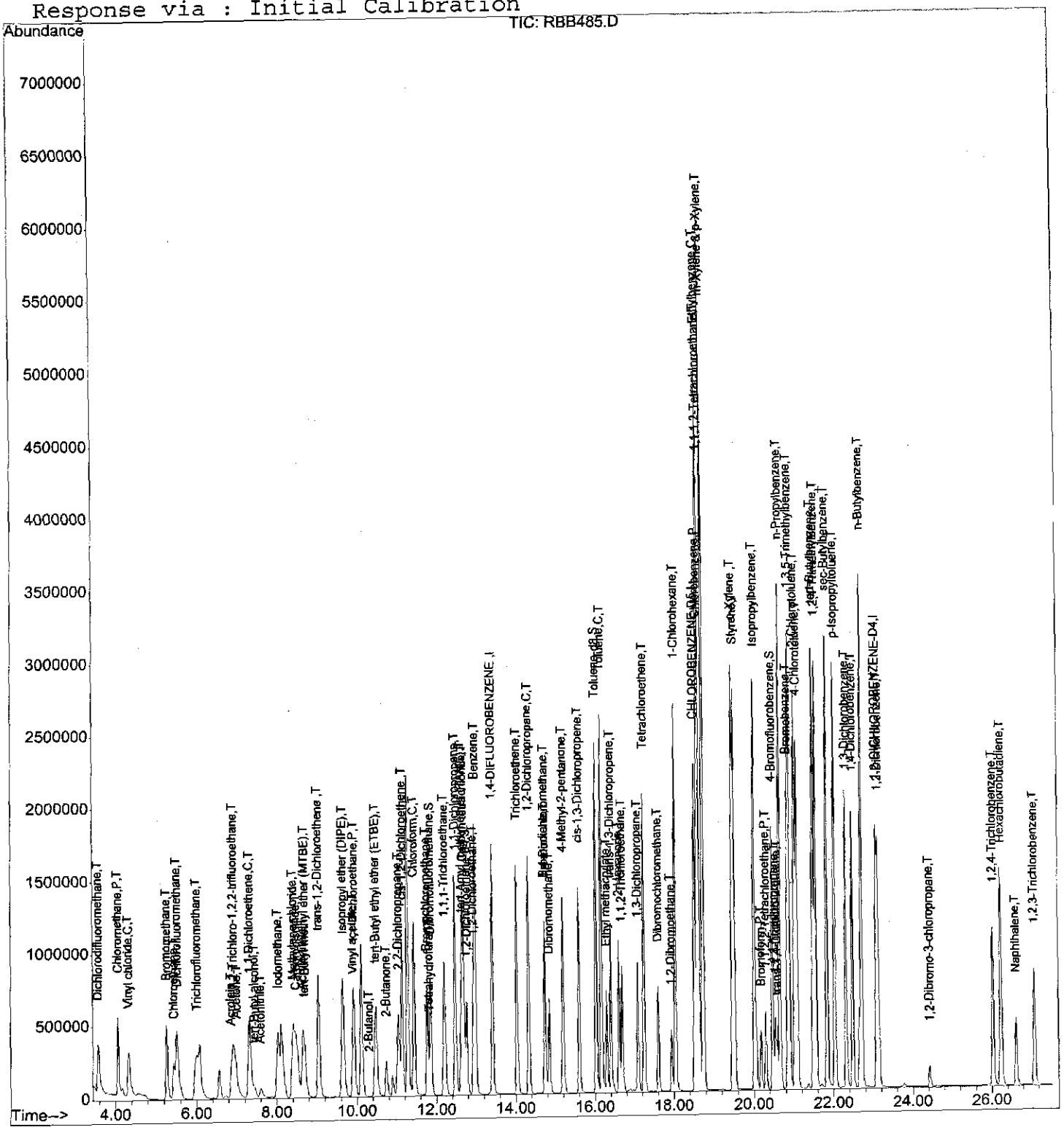
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB485.D
Acq On : 25 Feb 2011 11:07 am
Sample : VO03B29L
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 11:34 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB487.D
Acq On : 25 Feb 2011 12:58 pm
Sample : VO03B29Y
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 13:26 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1666312	10.00	ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1524998	10.00	ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.11	152	641825	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	706119	9.87	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	98.70%	
38) 1,2-Dichloroethane-d4	12.78	65	690236	9.85	ug/l	0.00
Spiked Amount 10.000			Recovery	=	98.50%	
53) Toluene-d8	16.04	98	2114536	9.15	ug/l	-0.01
Spiked Amount 10.000			Recovery	=	91.50%	
74) 4-Bromofluorobenzene	20.49	95	897400	9.09	ug/l	0.00
Spiked Amount 10.000			Recovery	=	90.90%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.57	85	765311	10.82	ug/l	99
4) Chloromethane	4.07	50	788462	10.91	ug/l	99
5) Vinyl chloride	4.33	62	712072	11.14	ug/l	98
6) Bromomethane	5.27	94	546197	11.60	ug/l	97
7) Chloroethane	5.44	64	317318	11.37	ug/l	98
8) Dichlorofluoromethane	5.53	67	1108288	9.64	ug/l	98
9) Trichlorofluoromethane	6.00	101	1053106	11.81	ug/l	99
10) Acrolein	6.87	56	76782	53.31	ug/l	97
11) 1,1,2-Trichloro-1,2,2-trif	6.93	151	351268	9.70	ug/l	99
12) Acetone	7.00	43	345515	49.94	ug/l	98
13) 1,1-Dichloroethene	7.33	61	1031629	9.70	ug/l	100
14) tert-Butyl alcohol	7.45	59	79457	40.57	ug/l	93
15) Acetonitrile	7.60	39	37512	84.40	ug/l	92
17) Iodomethane	8.03	142	1003244	9.78	ug/l	100
18) Methylene chloride	8.40	49	683216	9.40	ug/l	98
19) Carbon disulfide	8.49	76	1707760	9.27	ug/l	99
20) Acrylonitrile	8.65	53	290552	52.32	ug/l	98
21) tert-Butyl methyl ether (M	8.70	73	765140	9.85	ug/l	99
22) trans-1,2-Dichloroethene	9.04	61	971885	9.63	ug/l	99
23) Isopropyl ether (DIPE)	9.65	45	1699309	9.18	ug/l	99
24) Vinyl acetate	9.90	43	638654	11.72	ug/l	99
25) 1,1-Dichloroethane	9.93	63	1100878	9.54	ug/l	100
27) tert-Butyl ethyl ether (ET	10.48	59	1215982	9.41	ug/l	99
28) 2-Butanone	10.74	43	549213	52.03	ug/l	98
29) 2,2-Dichloropropane	11.05	77	683246	11.36	ug/l	95
30) cis-1,2-Dichloroethene	11.14	96	614338	9.46	ug/l	99
31) Chloroform	11.45	83	1319776	9.55	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB487.D
Acq On : 25 Feb 2011 12:58 pm
Sample : VO03B29Y
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 13:26 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
32) Bromochloromethane	11.78	49	475729	9.38 ug/l	100
33) Tetrahydrofuran	11.81	42	53851	8.89 ug/l	99
35) 1,1,1-Trichloroethane	12.21	97	1117495	10.02 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	195351	8.95 ug/l	97
40) 1,1-Dichloropropene	12.49	110	264812	8.72 ug/l	97
41) Carbon tetrachloride	12.69	119	1072939	9.81 ug/l	97
42) 1,2-Dichloroethane	12.94	62	809645	9.86 ug/l	99
43) Benzene	12.99	78	2090715	8.62 ug/l	100
44) Trichloroethene	14.04	130	601495	9.05 ug/l	99
46) 1,2-Dichloropropane	14.34	63	546033	9.25 ug/l	96
47) 1,4-Dioxane	14.74	88	30856	179.25 ug/l	91
48) Bromodichloromethane	14.74	83	949691	9.95 ug/l	100
49) Dibromomethane	14.86	93	344812	9.70 ug/l	98
51) 4-Methyl-2-pentanone	15.20	43	1624754	54.66 ug/l	100
52) cis-1,3-Dichloropropene	15.61	75	885423	9.98 ug/l	98
54) Toluene	16.17	91	2420833	9.04 ug/l	99
55) Ethyl methacrylate	16.31	69	418850	10.35 ug/l	98
56) trans-1,3-Dichloropropene	16.41	75	750933	11.97 ug/l	98
57) 2-Hexanone	16.62	43	1105503	55.54 ug/l	99
58) 1,1,2-Trichloroethane	16.71	97	334757	9.88 ug/l	99
59) 1,3-Dichloropropane	17.11	76	621250	9.83 ug/l	99
60) Tetrachloroethene	17.26	164	597240	9.29 ug/l	99
61) Dibromochloromethane	17.62	129	497800	11.46 ug/l	99
62) 1,2-Dibromoethane	17.96	107	401376	10.21 ug/l	98
63) 1-Chlorohexane	18.05	91	1135188	9.64 ug/l	99
64) Chlorobenzene	18.61	112	1475142	9.48 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	558225	9.79 ug/l	99
66) Ethylbenzene	18.64	91	3288526	9.56 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	5153643	19.42 ug/l	99
68) o-Xylene	19.48	91	2552860	9.73 ug/l	99
69) Styrene	19.54	104	1666142	9.91 ug/l	99
71) Isopropylbenzene	20.03	105	2866818	8.95 ug/l	99
72) Bromoform	20.19	173	275998	9.83 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.31	83	396216	9.39 ug/l	99
75) 1,2,3-Trichloropropane	20.57	110	99846	9.87 ug/l	93
76) trans-1,4-Dichloro-2-buten	20.61	53	113878	11.67 ug/l	100
77) n-Propylbenzene	20.68	91	4072707	9.09 ug/l	99
78) Bromobenzene	20.88	156	645494	9.10 ug/l	100
79) 1,3,5-Trimethylbenzene	20.91	105	2543223	9.19 ug/l	100
80) 2-Chlorotoluene	21.04	91	2389827	8.70 ug/l	90
81) 4-Chlorotoluene	21.10	91	2207239	9.67 ug/l	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB487.D Vial: 7
Acq On : 25 Feb 2011 12:58 pm Operator: MW
Sample : VO03B29Y Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 25 13:26 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

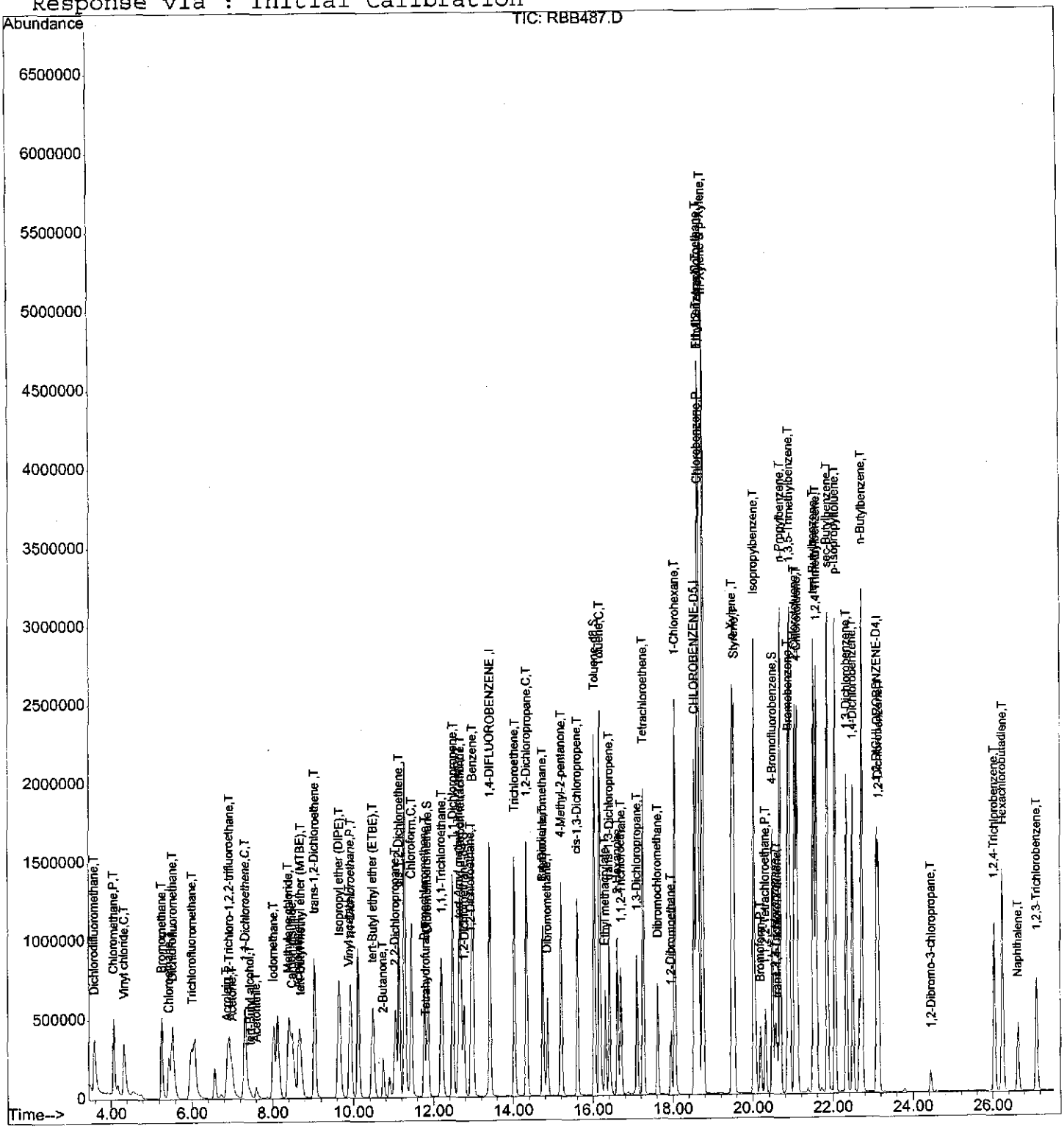
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	tert-Butylbenzene	21.52	134	416773	8.90 ug/l	94
83)	1,2,4-Trimethylbenzene	21.58	105	2462664	9.29 ug/l	99
84)	sec-Butylbenzene	21.86	105	3264556	9.17 ug/l	100
85)	p-Isopropyltoluene	22.05	119	2514998	9.54 ug/l	99
86)	1,3-Dichlorobenzene	22.34	146	1143905	9.50 ug/l	99
87)	1,4-Dichlorobenzene	22.50	146	1091020	9.61 ug/l	99
88)	n-Butylbenzene	22.72	91	2869455	9.46 ug/l	97
89)	1,2-Dichlorobenzene	23.16	146	915991	9.56 ug/l	99
90)	1,2-Dibromo-3-chloropropan	24.45	157	48710	10.23 ug/l	94
91)	1,2,4-Trichlorobenzene	26.04	180	563000	10.70 ug/l	99
92)	Hexachlorobutadiene	26.25	225	505487	10.45 ug/l	99
93)	Naphthalene	26.64	128	604891	9.81 ug/l	100
94)	1,2,3-Trichlorobenzene	27.12	180	412161	10.51 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB487.D Vial: 7
Acq On : 25 Feb 2011 12:58 pm Operator: MW
Sample : VO03B29Y Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 25 13:26 2011 Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB492.D
Acq On : 25 Feb 2011 4:00 pm
Sample : 11B186-05G 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 16:27 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1749133	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1606247	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	683161	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	777879	10.36 ug/l	0.00
Spiked Amount 10.000			Recovery	= 103.60%	
38) 1,2-Dichloroethane-d4	12.78	65	755668	10.27 ug/l	0.00
Spiked Amount 10.000			Recovery	= 102.70%	
53) Toluene-d8	16.05	98	2229998	9.16 ug/l	0.00
Spiked Amount 10.000			Recovery	= 91.60%	
74) 4-Bromofluorobenzene	20.49	95	989517	9.42 ug/l	0.00
Spiked Amount 10.000			Recovery	= 94.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	809444	10.90 ug/l	100
4) Chloromethane	4.11	50	801563	10.57 ug/l	100
5) Vinyl chloride	4.35	62	742878	11.08 ug/l	99
6) Bromomethane	5.29	94	490529	9.93 ug/l	100
7) Chloroethane	5.45	64	302437	10.32 ug/l	97
8) Dichlorofluoromethane	5.54	67	1186860	9.84 ug/l	98
9) Trichlorofluoromethane	6.00	101	1083354	11.58 ug/l	99
10) Acrolein	6.88	56	71493	47.28 ug/l	93
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	360935	9.50 ug/l	97
12) Acetone	7.01	43	382781	52.70 ug/l	97
13) 1,1-Dichloroethene	7.34	61	1046316	9.37 ug/l	99
14) tert-Butyl alcohol	7.43	59	92121	44.80 ug/l	99
15) Acetonitrile	7.61	39	37485	80.35 ug/l	93
17) Iodomethane	8.06	142	1005996	9.35 ug/l	98
18) Methylene chloride	8.43	49	702533	9.21 ug/l	99
19) Carbon disulfide	8.50	76	1563818	8.09 ug/l	100
20) Acrylonitrile	8.67	53	300241	51.50 ug/l	99
21) tert-Butyl methyl ether (M	8.71	73	801735	9.84 ug/l	99
22) trans-1,2-Dichloroethene	9.05	61	1090407	10.29 ug/l	98
23) Isopropyl ether (DIPE)	9.67	45	1885411	9.70 ug/l	99
24) Vinyl acetate	9.90	43	586842	10.26 ug/l	100
25) 1,1-Dichloroethane	9.95	63	1167312	9.63 ug/l	99
27) tert-Butyl ethyl ether (ET	10.50	59	1389824	10.24 ug/l	97
28) 2-Butanone	10.75	43	556234	50.20 ug/l	100
29) 2,2-Dichloropropane	11.06	77	644983	10.21 ug/l	97
30) cis-1,2-Dichloroethene	11.15	96	1056956	15.50 ug/l	95
31) Chloroform	11.45	83	1432305	9.88 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB492.D
Acq On : 25 Feb 2011 4:00 pm
Sample : 11B186-05G 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 16:27 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
32)	Bromochloromethane	11.78	49	492111	9.24 ug/l	97
33)	Tetrahydrofuran	11.82	42	53769	8.45 ug/l	97
35)	1,1,1-Trichloroethane	12.21	97	1178107	10.06 ug/l	99
37)	tert-Amyl methyl ether (TA	12.64	87	221203	9.66 ug/l	96
40)	1,1-Dichloropropene	12.49	110	292009	9.13 ug/l	99
41)	Carbon tetrachloride	12.70	119	1159308	10.06 ug/l	99
42)	1,2-Dichloroethane	12.94	62	858327	9.92 ug/l	99
43)	Benzene	13.00	78	2378750	9.31 ug/l	100
44)	Trichloroethene	14.04	130	6863519	98.07 ug/l	99
46)	1,2-Dichloropropane	14.34	63	581926	9.36 ug/l	93
47)	1,4-Dioxane	14.74	88	29435	162.34 ug/l	99
48)	Bromodichloromethane	14.76	83	1035807	10.31 ug/l	99
49)	Dibromomethane	14.86	93	363838	9.72 ug/l	98
51)	4-Methyl-2-pentanone	15.20	43	1616043	51.62 ug/l	99
52)	cis-1,3-Dichloropropene	15.62	75	957494	10.24 ug/l	98
54)	Toluene	16.19	91	2791738	9.89 ug/l	99
55)	Ethyl methacrylate	16.32	69	411803	9.66 ug/l	98
56)	trans-1,3-Dichloropropene	16.43	75	782344	11.84 ug/l	98
57)	2-Hexanone	16.62	43	1117601	53.30 ug/l	100
58)	1,1,2-Trichloroethane	16.71	97	350738	9.82 ug/l	98
59)	1,3-Dichloropropane	17.11	76	654534	9.84 ug/l	99
60)	Tetrachloroethene	17.27	164	635073	9.38 ug/l	99
61)	Dibromochloromethane	17.62	129	546915	11.95 ug/l	98
62)	1,2-Dibromoethane	17.96	107	419141	10.13 ug/l	99
63)	1-Chlorohexane	18.06	91	1212224	9.77 ug/l	99
64)	Chlorobenzene	18.61	112	1589621	9.69 ug/l	97
65)	1,1,1,2-Tetrachloroethane	18.66	131	615482	10.25 ug/l	98
66)	Ethylbenzene	18.64	91	3623074	10.00 ug/l	99
67)	m-Xylene & p-Xylene	18.76	91	5519225	19.75 ug/l	99
68)	o-Xylene	19.49	91	2808160	10.16 ug/l	98
69)	Styrene	19.54	104	1721721	9.72 ug/l	99
71)	Isopropylbenzene	20.03	105	3137150	9.20 ug/l	99
72)	Bromoform	20.19	173	285634	9.57 ug/l	100
73)	1,1,2,2-Tetrachloroethane	20.31	83	413101	9.20 ug/l	99
75)	1,2,3-Trichloropropane	20.57	110	102289	9.50 ug/l	97
76)	trans-1,4-Dichloro-2-buten	20.61	53	113571	10.97 ug/l	99
77)	n-Propylbenzene	20.68	91	4454591	9.34 ug/l	99
78)	Bromobenzene	20.88	156	702498	9.30 ug/l	98
79)	1,3,5-Trimethylbenzene	20.92	105	2762005	9.38 ug/l	99
80)	2-Chlorotoluene	21.06	91	2453746	8.39 ug/l	99
81)	4-Chlorotoluene	21.10	91	2550715	10.50 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB492.D
Acq On : 25 Feb 2011 4:00 pm
Sample : 11B186-05G 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 16:27 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82)	tert-Butylbenzene	21.52	134	459480	9.22 ug/l	96
83)	1,2,4-Trimethylbenzene	21.59	105	2623181	9.29 ug/l	99
84)	sec-Butylbenzene	21.86	105	3529339	9.32 ug/l	100
85)	p-Isopropyltoluene	22.05	119	2685359	9.57 ug/l	99
86)	1,3-Dichlorobenzene	22.35	146	1229156	9.59 ug/l	98
87)	1,4-Dichlorobenzene	22.52	146	1161812	9.61 ug/l	99
88)	n-Butylbenzene	22.74	91	3129045	9.69 ug/l	98
89)	1,2-Dichlorobenzene	23.16	146	976985	9.58 ug/l	99
90)	1,2-Dibromo-3-chloropropan	24.45	157	52212	10.30 ug/l	97
91)	1,2,4-Trichlorobenzene	26.06	180	603776	10.78 ug/l	99
92)	Hexachlorobutadiene	26.27	225	542239	10.53 ug/l	99
93)	Naphthalene	26.66	128	642140	9.79 ug/l	99
94)	1,2,3-Trichlorobenzene	27.13	180	448654	10.74 ug/l	99

(#) = qualifier out of range (m) = manual integration

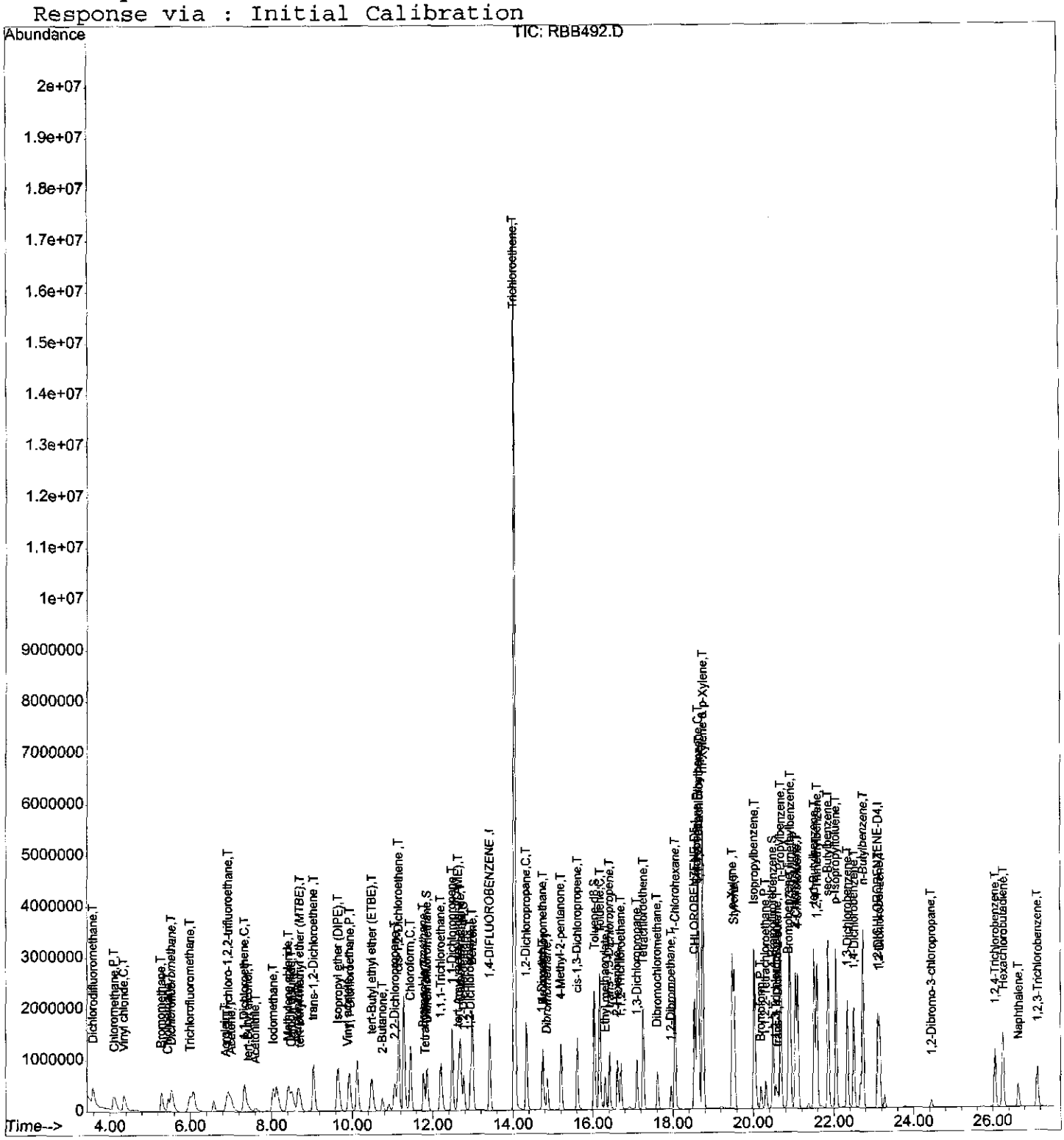
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB492.D
Acq On : 25 Feb 2011 4:00 pm
Sample : 11B186-05G 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 16:27 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB493.D
Acq On : 25 Feb 2011 4:36 pm
Sample : 11B186-05V 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 17:04 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.44	114	1797495	10.00	ug/l	0.00
39) CHLOROBENZENE-D5	18.54	117	1609499	10.00	ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.12	152	654589	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	11.87	111	776880	10.07	ug/l	0.00
Spiked Amount 10.000			Recovery	=	100.70%	
38) 1,2-Dichloroethane-d4	12.78	65	752567	9.95	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.50%	
53) Toluene-d8	16.04	98	2317808	9.50	ug/l	0.00
Spiked Amount 10.000			Recovery	=	95.00%	
74) 4-Bromofluorobenzene	20.50	95	945079	9.39	ug/l	0.00
Spiked Amount 10.000			Recovery	=	93.90%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.59	85	750298	9.83	ug/l	99
4) Chloromethane	4.10	50	767277	9.85	ug/l	99
5) Vinyl chloride	4.35	62	682743	9.91	ug/l	99
6) Bromomethane	5.31	94	457505	9.01	ug/l	95
7) Chloroethane	5.47	64	264765	8.79	ug/l	91
8) Dichlorofluoromethane	5.55	67	1197706	9.66	ug/l	99
9) Trichlorofluoromethane	6.02	101	975822	10.15	ug/l	99
10) Acrolein	6.89	56	69905	44.99	ug/l	97
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	334638	8.57	ug/l	98
12) Acetone	7.02	43	349216	46.79	ug/l	98
13) 1,1-Dichloroethene	7.36	61	1041678	9.08	ug/l	98
14) tert-Butyl alcohol	7.45	59	93212	44.11	ug/l	96
15) Acetonitrile	7.62	39	33932	70.78	ug/l	96
17) Iodomethane	8.06	142	908383	8.21	ug/l	98
18) Methylene chloride	8.42	49	694336	8.86	ug/l	98
19) Carbon disulfide	8.51	76	1842197	9.27	ug/l	99
20) Acrylonitrile	8.66	53	296001	49.41	ug/l	99
21) tert-Butyl methyl ether (M	8.72	73	808558	9.65	ug/l	99
22) trans-1,2-Dichloroethene	9.04	61	1061341	9.75	ug/l	98
23) Isopropyl ether (DIPE)	9.67	45	1830393	9.16	ug/l	99
24) Vinyl acetate	9.91	43	538727	9.16	ug/l	99
25) 1,1-Dichloroethane	9.94	63	1208414	9.70	ug/l	99
26) 2-Butanol	10.37	45	1019	0.74	ug/l #	59
27) tert-Butyl ethyl ether (ET	10.49	59	1337877	9.59	ug/l	100
28) 2-Butanone	10.74	43	553783	48.64	ug/l	100
29) 2,2-Dichloropropane	11.07	77	644841	9.94	ug/l	97
30) cis-1,2-Dichloroethene	11.16	96	1052595	15.02	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB493.D
Acq On : 25 Feb 2011 4:36 pm
Sample : 11B186-05V 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 17:04 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.46	83	1495899	10.04 ug/l	100
32) Bromochloromethane	11.78	49	534893	9.78 ug/l	98
33) Tetrahydrofuran	11.83	42	52392	8.01 ug/l	95
35) 1,1,1-Trichloroethane	12.22	97	1185138	9.85 ug/l	99
37) tert-Amyl methyl ether (TA	12.65	87	220884	9.39 ug/l	100
40) 1,1-Dichloropropene	12.50	110	302510	9.44 ug/l	98
41) Carbon tetrachloride	12.69	119	1142293	9.90 ug/l	98
42) 1,2-Dichloroethane	12.95	62	873638	10.08 ug/l	99
43) Benzene	13.01	78	2367194	9.25 ug/l	99
44) Trichloroethene	14.05	130	7152027	101.99 ug/l	100
46) 1,2-Dichloropropane	14.35	63	567042	9.10 ug/l	91
47) 1,4-Dioxane	14.75	88	31080	171.07 ug/l	90
48) Bromodichloromethane	14.75	83	1041609	10.34 ug/l	100
49) Dibromomethane	14.87	93	371234	9.89 ug/l	96
51) 4-Methyl-2-pentanone	15.21	43	1609461	51.30 ug/l	100
52) cis-1,3-Dichloropropene	15.63	75	975931	10.42 ug/l	99
54) Toluene	16.18	91	2836295	10.03 ug/l	100
55) Ethyl methacrylate	16.31	69	419982	9.83 ug/l	100
56) trans-1,3-Dichloropropene	16.42	75	768858	11.61 ug/l	97
57) 2-Hexanone	16.62	43	1105034	52.60 ug/l	100
58) 1,1,2-Trichloroethane	16.71	97	342616	9.58 ug/l	99
59) 1,3-Dichloropropane	17.12	76	627102	9.41 ug/l	99
60) Tetrachloroethene	17.26	164	639950	9.44 ug/l	99
61) Dibromochloromethane	17.62	129	536985	11.71 ug/l	98
62) 1,2-Dibromoethane	17.96	107	403388	9.73 ug/l	99
63) 1-Chlorohexane	18.05	91	1234976	9.94 ug/l	99
64) Chlorobenzene	18.62	112	1599326	9.73 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.65	131	624095	10.37 ug/l	98
66) Ethylbenzene	18.65	91	3542121	9.76 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	5736764	20.48 ug/l	99
68) o-Xylene	19.48	91	2790147	10.07 ug/l	98
69) Styrene	19.54	104	1685680	9.50 ug/l	99
71) Isopropylbenzene	20.03	105	3152883	9.65 ug/l	99
72) Bromoform	20.20	173	280645	9.80 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.32	83	395337	9.19 ug/l	99
75) 1,2,3-Trichloropropane	20.57	110	100797	9.77 ug/l	90
76) trans-1,4-Dichloro-2-buten	20.61	53	108801	10.97 ug/l	98
77) n-Propylbenzene	20.69	91	4428283	9.69 ug/l	99
78) Bromobenzene	20.88	156	693300	9.58 ug/l	98
79) 1,3,5-Trimethylbenzene	20.91	105	2747931	9.74 ug/l	100
80) 2-Chlorotoluene	21.05	91	2633091	9.40 ug/l	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB493.D
Acq On : 25 Feb 2011 4:36 pm
Sample : 11B186-05V 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 17:04 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81)	4-Chlorotoluene	21.11	91	2331744	10.02 ug/l	89
82)	tert-Butylbenzene	21.52	134	467015	9.78 ug/l	97
83)	1,2,4-Trimethylbenzene	21.58	105	2643169	9.77 ug/l	98
84)	sec-Butylbenzene	21.87	105	3561184	9.81 ug/l	100
85)	p-Isopropyltoluene	22.06	119	2725851	10.13 ug/l	99
86)	1,3-Dichlorobenzene	22.34	146	1234904	10.05 ug/l	99
87)	1,4-Dichlorobenzene	22.51	146	1151997	9.95 ug/l	99
88)	n-Butylbenzene	22.73	91	3242931	10.48 ug/l	100
89)	1,2-Dichlorobenzene	23.16	146	968295	9.91 ug/l	100
90)	1,2-Dibromo-3-chloropropan	24.44	157	51470	10.60 ug/l	98
91)	1,2,4-Trichlorobenzene	26.05	180	571278	10.65 ug/l	99
92)	Hexachlorobutadiene	26.26	225	538769	10.92 ug/l	100
93)	Naphthalene	26.65	128	612471	9.74 ug/l	100
94)	1,2,3-Trichlorobenzene	27.12	180	414523	10.36 ug/l	98

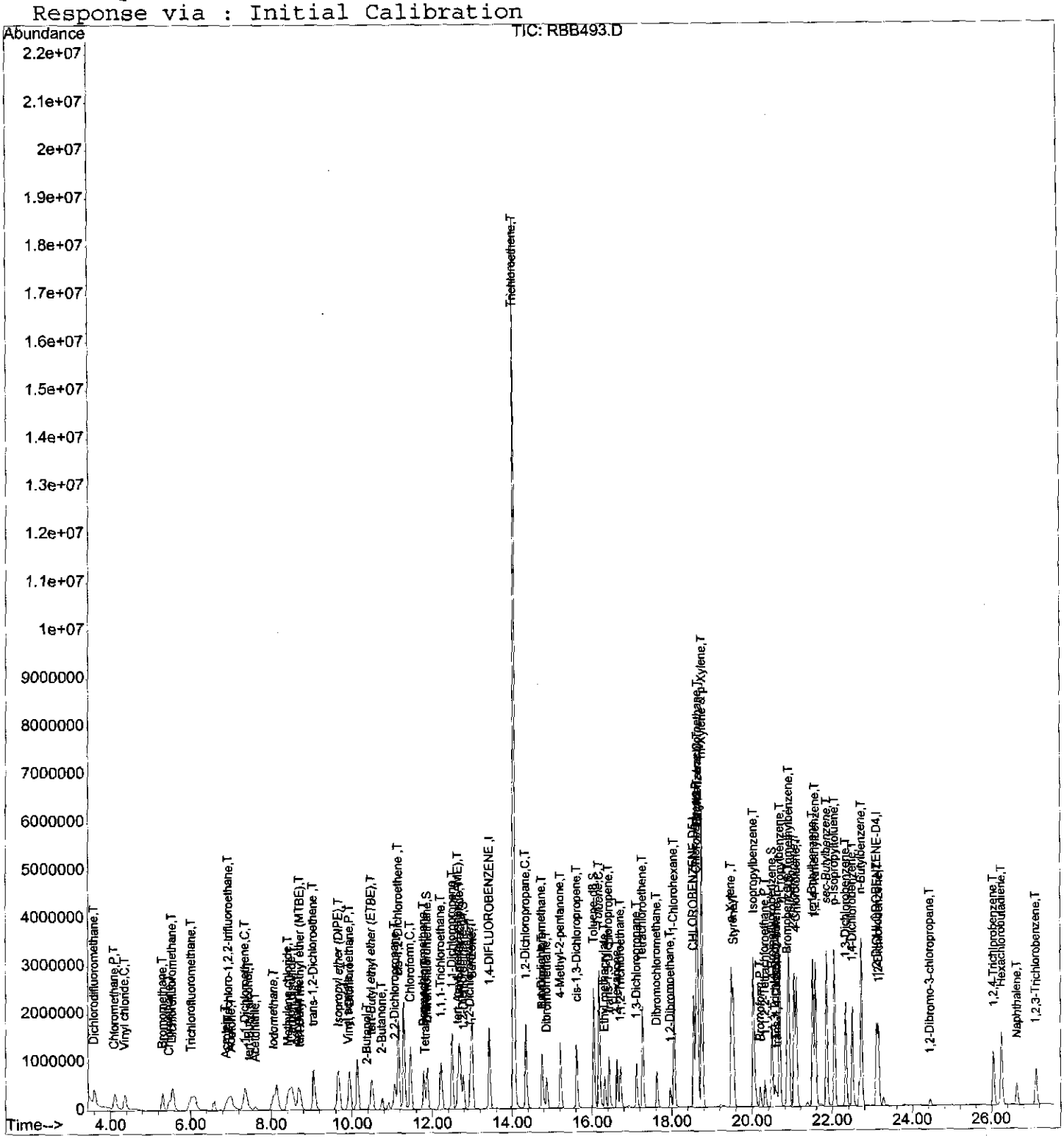
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB493.D
Acq On : 25 Feb 2011 4:36 pm
Sample : 11B186-05V 25mL
Misc : DF=1.0
MS Integration Params: 524INT.P
Quant Time: Feb 25 17:04 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



INITIAL CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11B186

Lab File ID: RLV327 — BFB Injection Date : 12/11/10

Instrument ID: T001 — BFB Injection Time : 09:15

GC Column:RTX502.2ID:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.73
75	30.0 - 60.0% of mass 95	43.26
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.69
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	74.83
175	5.0 - 9.0% of mass 174	5.60(7.5)1
176	95.0 - 101.0% of mass 174	73.56(98.3)1
177	5.0 - 9.0% of mass 176	4.84(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V001L111	RLV328	12/11/10	09:56
2	VSTD0.5	V001L112	RLV329	12/11/10	10:28
3	VSTD01	V001L113	RLV330	12/11/10	11:02
4	VSTD02	V001L114	RLV331	12/11/10	11:34
5	VSTD05	V001L115	RLV332	12/11/10	12:08
6	VSTD010	V001L116	RLV333	12/11/10	12:40
7	VSTD020	V001L117	RLV334	12/11/10	13:12
8	VSTD030	V001L118	RLV335	12/11/10	13:47
9	VSTD050	V001L1110	RLV337	12/11/10	14:51
10	VSTD100	V001L1111	RLV338	12/11/10	15:24
11	VSTD010	IV001L1101	RLV341	12/11/10	17:01

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	0.193	0.174	0.188	0.178	0.173	0.190	0.185	0.168	0.159	0.142	0.175	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.413	0.363	0.343	0.326	0.366	0.362	0.330	0.312	0.264	0.342	12.16	2.4787
	5	Vinyl chloride	0.356	0.307	0.320	0.288	0.268	0.277	0.227	------	------	------	0.292	14.06	2.6504
	6	Bromomethane	0.263	0.204	0.228	0.219	0.208	0.236	0.230	0.213	0.201	0.170	0.217	11.37	3.1701
	7	Chloroethane	0.271	0.249	0.235	0.221	0.218	0.241	0.235	0.218	0.208	0.169	0.227	11.96	3.2515
	8	Dichlorofluoromethane	0.646	0.578	0.618	0.617	0.612	0.602	0.581	0.593	0.554	0.459	0.586	8.78	3.3358
	9	Trichlorofluoromethane	0.383	0.333	0.344	0.330	0.326	0.350	0.354	0.333	0.309	0.263	0.332	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	0.018	0.017	0.017	0.016	0.016	0.015	0.014	0.016	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	0.162	0.159	0.173	0.169	0.167	0.168	0.158	0.164	0.147	0.126	0.159	8.56	4.1955
5	13	Acetone	------	------	0.041	0.043	0.038	0.040	0.041	0.042	0.037	0.034	0.039	7.47	4.2295
	14	1,1-Dichloroethene	0.501	0.451	0.481	0.494	0.474	0.472	0.459	0.471	0.434	0.366	0.460	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	0.014	0.014	0.015	0.014	0.016	0.016	0.014	0.013	0.015	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.494	0.458	0.495	0.509	0.504	0.508	0.493	0.507	0.473	0.408	0.485	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	0.559	0.591	0.525	0.507	0.464	0.465	0.449	0.453	0.418	0.358	0.479	14.28	5.0418
	20	Carbon disulfide	------	0.652	1.142	1.092	1.138	1.339	1.222	1.227	1.160	------	1.122	18.20	5.0729
5	21	Acrylonitrile	------	------	0.054	0.054	0.051	0.053	0.054	0.056	0.050	0.046	0.052	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	0.448	0.429	0.469	0.483	0.470	0.471	0.472	0.480	0.439	0.386	0.455	6.60	5.2756
	23	trans-1,2-Dichloroethene	0.545	0.498	0.529	0.541	0.541	0.526	0.525	0.536	0.497	0.421	0.516	7.26	5.4443
	24	Isopropyl ether (DIPE)	1.261	1.252	1.297	1.324	1.305	1.313	1.290	1.337	1.209	1.065	1.265	6.33	5.8970
	25	Vinyl acetate	------	0.509	0.497	0.448	0.432	0.488	0.505	0.486	0.437	0.381	0.465	9.23	6.0446
	26	1,1-Dichloroethane	0.649	0.608	0.660	0.665	0.669	0.650	0.633	0.657	0.609	0.518	0.632	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	0.747	0.733	0.786	0.815	0.781	0.783	0.777	0.781	0.709	0.621	0.753	7.38	6.4859
5	29	2-Butanone	0.078	0.070	0.077	0.075	0.071	0.073	0.078	0.078	0.072	0.066	0.074	5.70	6.6531
	30	2,2-Dichloropropane	0.436	0.391	0.419	0.413	0.402	0.384	0.372	0.377	0.333	0.278	0.381	12.09	6.8573
	31	cis-1,2-Dichloroethene	0.365	0.368	0.383	0.387	0.384	0.386	0.375	0.388	0.360	0.308	0.370	6.52	6.9165
	32	Chloroform	0.564	0.526	0.554	0.572	0.564	0.556	0.554	0.569	0.531	0.463	0.545	5.99	7.1444
	33	Bromochloromethane	0.268	0.256	0.282	0.288	0.284	0.287	0.281	0.292	0.266	0.232	0.274	6.81	7.3885
	34	Dibromofluoromethane	------	------	0.301	0.262	0.308	0.319	0.325	0.325	0.293	0.265	0.300	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	0.408	0.386	0.416	0.413	0.415	0.402	0.399	0.410	0.374	0.327	0.395	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	0.102	0.105	0.116	0.120	0.120	0.117	0.120	0.120	0.106	0.090	0.112	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	0.241	0.206	0.237	0.246	0.256	0.252	0.228	0.208	0.234	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	0.221	0.197	0.201	0.204	0.202	0.193	0.183	0.192	0.176	0.150	0.192	9.97	7.9774
	43	Carbon tetrachloride	0.417	0.370	0.389	0.399	0.400	0.384	0.366	0.388	0.359	0.310	0.378	7.86	8.1342
	44	1,2-Dichloroethane	0.329	0.314	0.350	0.358	0.352	0.348	0.339	0.353	0.329	0.281	0.335	6.97	8.3577
	45	Benzene	1.688	1.530	1.642	1.642	1.615	1.592	1.532	1.590	1.496	1.242	1.557	8.06	8.3872
	46	Trichloroethene	0.410	0.394	0.436	0.434	0.432	0.433	0.410	0.431	0.407	0.341	0.413	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	0.432	0.415	0.441	0.460	0.453	0.442	0.431	0.453	0.414	0.356	0.430	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	9.05	10.0511
	50	Bromodichloromethane	0.462	0.434	0.458	0.481	0.481	0.480	0.462	0.492	0.455	0.393	0.460	6.30	9.9986
	51	Dibromomethane	0.156	0.159	0.167	0.175	0.172	0.171	0.165	0.175	0.162	0.141	0.164	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	0.105	0.103	0.107	0.108	0.111	0.115	0.106	0.097	0.106	4.84	10.4883
	53	4-Methyl-2-pentanone	------	------	0.225	0.227	0.218	0.221	0.228	0.235	0.215	0.191	0.220	6.01	10.5530
	54	cis-1,3-Dichloropropene	0.593	0.551	0.598	0.605	0.603	0.605	0.579	0.617	0.567	0.491	0.581	6.39	10.8938
	55	Toluene-d8	------	------	1.355	1.148	1.343	1.365	1.324	1.350	1.232	------	1.303	6.27	11.3168
	56	Toluene	1.746	1.584	1.691	1.677	1.670	1.623	1.549	1.609	1.509	1.246	1.591	8.81	11.4516
	57	Ethyl methacrylate	------	0.289	0.317	0.323	0.320	0.328	0.317	0.332	0.302	0.262	0.310	7.22	11.7379
	58	trans-1,3-Dichloropropene	0.420	0.365	0.415	0.431	0.431	0.426	0.415	0.441	0.403	0.346	0.409	7.44	11.7504

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5	59	2-Hexanone	------	------	0.142	0.141	0.136	0.138	0.142	0.148	0.132	0.117	0.137	6.85	12.0493
	60	1,1,2-Trichloroethane	0.219	0.212	0.227	0.234	0.231	0.229	0.222	0.232	0.209	0.181	0.220	7.27	12.0286
	61	1,3-Dichloropropane	0.432	0.415	0.434	0.459	0.455	0.448	0.437	0.458	0.416	0.361	0.431	6.84	12.4740
	62	Tetrachloroethene	0.345	0.302	0.323	0.331	0.329	0.317	0.304	0.315	0.296	0.245	0.311	8.80	12.6027
	63	Dibromochloromethane	0.253	0.254	0.268	0.279	0.281	0.286	0.280	0.296	0.272	0.236	0.271	6.68	12.9578
	64	1,2-Dibromoethane	0.213	0.200	0.217	0.226	0.226	0.225	0.220	0.233	0.213	0.185	0.216	6.57	13.3247
	65	1-Chlorohexane	0.726	0.643	0.708	0.693	0.698	0.673	0.629	0.653	0.597	0.491	0.651	10.53	13.6074
	66	Chlorobenzene	0.969	0.923	0.978	1.014	1.006	0.993	0.959	0.994	0.911	0.774	0.952	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	0.333	0.285	0.318	0.316	0.322	0.320	0.309	0.324	0.292	0.246	0.307	8.36	14.1681
	68	Ethylbenzene	1.906	1.740	1.888	1.850	1.892	1.837	1.743	1.827	1.636	------	1.813	4.94	14.1840
2	69	m-Xylene & p-Xylene	1.370	1.293	1.375	1.397	1.380	1.360	1.272	1.326	1.215	------	1.332	4.55	14.3254
	70	o-Xylene	1.357	1.278	1.354	1.396	1.368	1.368	1.273	1.355	1.229	1.028	1.301	8.43	15.1491
	71	Styrene	0.986	0.891	0.980	1.028	1.025	1.054	0.998	1.052	0.970	0.817	0.980	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	4.732	4.356	4.695	4.727	4.630	4.510	4.270	4.517	4.103	3.382	4.392	9.38	15.8342
	74	Bromoform	0.321	0.322	0.370	0.373	0.391	0.391	0.391	0.420	0.383	0.338	0.370	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	0.739	0.720	0.738	0.753	0.738	0.724	0.711	0.757	0.685	0.597	0.716	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	1.053	1.178	1.200	1.191	1.219	1.116	0.981	1.134	7.80	16.3184
	77	1,2,3-Trichloropropane	0.207	0.230	0.194	0.184	0.176	0.172	0.165	0.178	0.158	0.139	0.180	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	0.186	0.185	0.189	0.192	0.190	0.203	0.180	0.154	0.185	7.64	16.5844
	79	n-Propylbenzene	6.204	5.820	6.195	6.202	6.164	5.995	5.718	5.999	5.538	4.482	5.832	9.03	16.6110
	80	Bromobenzene	0.908	0.890	0.928	0.963	0.948	0.942	0.918	0.986	0.911	0.788	0.918	5.85	16.6998
	81	1,3,5-Trimethylbenzene	3.645	3.404	3.739	3.703	3.627	3.548	3.415	3.580	3.261	2.643	3.456	9.31	16.9232
	82	2-Chlorotoluene	3.815	3.635	3.729	3.719	3.598	3.513	3.397	3.781	3.484	2.824	3.549	8.13	16.9572
	83	4-Chlorotoluene	3.230	3.017	3.196	3.224	3.220	3.238	3.115	3.091	2.839	2.389	3.056	8.71	17.0504
	84	tert-Butylbenzene	0.844	0.786	0.828	0.839	0.829	0.802	0.767	0.809	0.733	0.614	0.785	8.82	17.6201
	85	1,2,4-Trimethylbenzene	3.533	3.347	3.577	3.601	3.578	3.567	3.370	3.555	3.294	2.727	3.415	7.81	17.6941
	86	sec-Butylbenzene	5.123	4.786	5.225	5.202	5.174	4.913	4.651	4.871	4.491	3.709	4.814	9.57	18.0196
	87	p-Isopropyltoluene	3.979	3.611	3.929	3.891	3.853	3.819	3.587	3.763	3.474	2.843	3.675	9.11	18.2563
	88	1,3-Dichlorobenzene	1.946	1.796	1.874	1.924	1.942	1.912	1.854	1.947	1.811	1.539	1.854	6.67	18.4161
	89	1,4-Dichlorobenzene	1.830	1.738	1.833	1.848	1.859	1.843	1.789	1.861	1.744	1.473	1.782	6.58	18.5863
	90	n-Butylbenzene	4.300	3.827	4.137	4.049	4.052	3.985	3.791	3.927	3.557	2.906	3.853	10.13	18.9059
	91	1,2-Dichlorobenzene	1.510	1.494	1.568	1.597	1.566	1.560	1.496	1.571	1.451	1.251	1.506	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	0.096	0.091	0.082	0.089	0.092	0.091	0.096	0.087	0.081	0.089	5.97	20.1931
	93	1,2,4-Trichlorobenzene	0.993	0.868	0.958	0.942	0.949	0.933	0.919	0.941	0.881	0.781	0.916	6.51	21.3340
	94	Hexachlorobutadiene	0.611	0.586	0.633	0.604	0.620	0.606	0.570	0.594	0.548	0.478	0.585	7.65	21.5145
	95	Naphthalene	1.080	0.945	1.020	1.018	1.045	1.048	1.105	1.177	1.121	1.049	1.061	6.04	21.7024
	96	1,2,3-Trichlorobenzene	0.837	0.754	0.749	0.743	0.747	0.732	0.717	0.736	0.690	0.623	0.733	7.34	22.0382

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.1 Max_%RSD : 18.2

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
20	Carbon disulfide	-0.01823	1.21064	0.9987

Su
12/16/10

2150

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :T001
Beginning DateTime :12/11/10 09:56
Spike Units :PPB
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :12/11/10 15:24
HPChem Method :V001L11

M	IDX	Parameters	.3 09:56 RLV328	.5 10:28 RLV329	1 11:02 RLV330	2 11:34 RLV331	5 12:08 RLV332	10 12:40 RLV333	20 13:12 RLV334	30 13:47 RLV335	50 14:51 RLV337	100 15:24 RLV338	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	0	8.8134
	2	Dichlorodifluoromethane	110	99	107	102	99	109	106	96	91	81	6.7	9.01	2.2158
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	121	106	100	95	107	106	96	91	77	8.9	12.16	2.4787
	5	Vinyl chloride	122	105	110	99	92	95	78	------	------	------	10.5	14.06	2.6504
	6	Bromomethane	121	94	105	101	96	109	106	98	93	78	8.3	11.37	3.1701
	7	Chloroethane	119	110	104	97	96	106	104	96	92	74	8.7	11.96	3.2515
	8	Dichlorofluoromethane	110	99	105	105	104	103	99	101	95	78	5.9	8.78	3.3358
	9	Trichlorofluoromethane	115	100	104	99	98	105	107	100	93	79	6.2	9.45	3.6317
5	10	sec-Propyl alcohol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	11	Acrolein	------	------	------	112	106	106	100	100	94	87	6.3	7.57	4.1390
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	102	100	109	106	105	106	99	103	92	79	6	8.56	4.1955
5	13	Acetone	------	------	105	110	97	103	105	108	95	87	6.4	7.47	4.2295
	14	1,1-Dichloroethene	109	98	105	107	103	103	100	102	94	80	5.7	8.36	4.3952
5	15	tert-Butyl alcohol	------	------	93	93	100	93	107	107	93	87	6.7	6.55	4.5347
	16	Acetonitrile	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	102	94	102	105	104	105	102	105	98	84	4.8	6.50	4.8140
	18	Methyl acetate	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	19	Methylene chloride	117	123	110	106	97	97	94	95	87	75	11.1	14.28	5.0418
	20	Carbon disulfide	------	84	109	98	97	112	102	102	96	------	6.2	8.7	5.0729
5	21	Acrylonitrile	------	------	104	104	98	102	104	108	96	88	4.8	5.64	5.2135
	22	tert-Butyl methyl ether (MTBE)	98	94	103	106	103	104	104	105	96	85	5.1	6.60	5.2756
	23	trans-1,2-Dichloroethene	106	97	103	105	105	102	102	104	96	82	5.1	7.26	5.4443
	24	Isopropyl ether (DIPE)	100	99	103	105	103	104	102	106	96	84	4.3	6.33	5.8970
	25	Vinyl acetate	------	109	107	96	93	105	109	105	94	82	7.7	9.23	6.0446
	26	1,1-Dichloroethane	103	96	104	105	106	103	100	104	96	82	5.1	7.19	6.0465
5	27	2-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	28	tert-Butyl ethyl ether (ETBE)	99	97	104	108	104	104	103	104	94	82	5.4	7.38	6.4859
5	29	2-Butanone	105	95	104	101	96	99	105	105	97	89	4.6	5.70	6.6531
	30	2,2-Dichloropropane	114	103	110	108	106	101	98	99	87	73	8.5	12.09	6.8573
	31	cis-1,2-Dichloroethene	99	99	104	105	104	104	101	105	97	83	4.4	6.52	6.9165
	32	Chloroform	103	97	102	105	103	102	102	104	97	85	4.3	5.99	7.1444
	33	Bromochloromethane	98	93	103	105	104	105	103	107	97	85	5.3	6.81	7.3885
	34	Dibromofluoromethane	------	------	100	87	103	106	108	108	98	88	6.6	8.39	7.4680
	35	Tetrahydrofuran	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	36	1,1,1-Trichloroethane	103	98	105	105	105	102	101	104	95	83	5	6.94	7.7480
	37	Cyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	38	1-Butanol	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	39	tert-Amyl methyl ether (TAME)	91	94	104	107	107	104	107	107	95	80	7.7	9.19	8.1683
	40	1,2-Dichloroethane-d4	------	------	103	88	101	105	109	108	97	89	6.5	8.04	8.2171
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	0	14.0202
	42	1,1-Dichloropropene	115	103	105	106	105	101	95	100	92	78	6.9	9.97	7.9774
	43	Carbon tetrachloride	110	98	103	106	106	102	97	103	95	82	5.7	7.86	8.1342
	44	1,2-Dichloroethane	98	94	104	107	105	104	101	105	98	84	5.3	6.97	8.3577
	45	Benzene	108	98	105	105	104	102	98	102	96	80	5.5	8.06	8.3872
	46	Trichloroethene	99	95	106	105	105	105	99	104	99	83	4.9	7.10	9.3371
	47	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	48	1,2-Dichloropropane	100	97	103	107	105	103	100	105	96	83	4.8	7.02	9.6242
20	49	1,4-Dioxane	------	------	------	100	100	100	100	200	100	100	14.3	9.05	10.0511
	50	Bromodichloromethane	100	94	100	105	105	104	100	107	99	85	4.3	6.30	9.9986
	51	Dibromomethane	95	97	102	107	105	104	101	107	99	86	4.8	6.40	10.0873
	52	2-Chloroethyl vinyl ether	------	------	99	97	101	102	105	108	100	92	3.5	4.84	10.4883
5	53	4-Methyl-2-pentanone	------	------	102	103	99	100	104	107	98	87	4.1	6.01	10.5530
	54	cis-1,3-Dichloropropene	102	95	103	104	104	104	100	106	98	85	4.7	6.39	10.8938
	55	Toluene-d8	------	------	104	88	103	105	102	104	95	------	4.9	6.27	11.3168
	56	Toluene	110	100	106	105	105	102	97	101	95	78	5.9	8.81	11.4516
	57	Ethyl methacrylate	------	93	102	104	103	106	102	107	97	85	5.5	7.22	11.7379
	58	trans-1,3-Dichloropropene	103	89	101	105	105	104	101	108	99	85	5.6	7.44	11.7504

SG
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5	59	2-Hexanone	------	------	104	103	99	101	104	108	96	85	4.7	6.85	12.0493
	60	1,1,2-Trichloroethane	100	96	103	106	105	104	101	105	95	82	5.2	7.27	12.0286
	61	1,3-Dichloropropane	100	96	101	106	106	104	101	106	97	84	4.8	6.84	12.4740
	62	Tetrachloroethene	111	97	104	106	106	102	98	101	95	79	6.1	8.80	12.6027
	63	Dibromochloromethane	93	94	99	103	104	106	103	109	100	87	5.2	6.68	12.9578
	64	1,2-Dibromoethane	99	93	100	105	105	104	102	108	99	86	4.8	6.57	13.3247
	65	1-Chlorohexane	112	99	109	106	107	103	97	100	92	75	7.5	10.53	13.6074
	66	Chlorobenzene	102	97	103	107	106	104	101	104	96	81	5.2	7.47	14.0897
	67	1,1,1,2-Tetrachloroethane	108	93	104	103	105	104	101	106	95	80	6.2	8.36	14.1681
	68	Ethylbenzene	105	96	104	102	104	101	96	101	90	------	3.9	4.94	14.1840
2	69	m-Xylene & p-Xylene	103	97	103	105	104	102	95	100	91	------	3.7	4.55	14.3254
	70	o-Xylene	104	98	104	107	105	105	98	104	94	79	6.1	8.43	15.1491
	71	Styrene	101	91	100	105	105	108	102	107	99	83	5.4	7.59	15.2172
	72	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	0	19.1056
	73	Isopropylbenzene	108	99	107	108	105	103	97	103	93	77	6.6	9.38	15.8342
	74	Bromoform	87	87	100	101	106	106	106	114	104	91	7	8.94	15.8682
	75	1,1,2,2-Tetrachloroethane	103	101	103	105	103	101	99	106	96	83	4.4	6.57	16.1597
	76	4-Bromofluorobenzene	------	------	------	93	104	106	105	107	98	87	6.3	7.80	16.3184
	77	1,2,3-Trichloropropane	115	128	108	102	98	96	92	99	88	77	10.4	14.17	16.4512
	78	trans-1,4-Dichloro-2-butene	------	------	101	100	102	104	103	110	97	83	4.8	7.64	16.5844
	79	n-Propylbenzene	106	100	106	106	106	103	98	103	95	77	6.1	9.03	16.6110
	80	Bromobenzene	99	97	101	105	103	103	100	107	99	86	3.8	5.85	16.6998
	81	1,3,5-Trimethylbenzene	105	98	108	107	105	103	99	104	94	76	6.4	9.31	16.9232
	82	2-Chlorotoluene	107	102	105	105	101	99	96	107	98	80	5.5	8.13	16.9572
	83	4-Chlorotoluene	106	99	105	105	105	106	102	101	93	78	6	8.71	17.0504
	84	tert-Butylbenzene	108	100	105	107	106	102	98	103	93	78	6.2	8.82	17.6201
	85	1,2,4-Trimethylbenzene	103	98	105	105	105	104	99	104	96	80	5.4	7.81	17.6941
	86	sec-Butylbenzene	106	99	109	108	107	102	97	101	93	77	6.7	9.57	18.0196
	87	p-Isopropyltoluene	108	98	107	106	105	104	98	102	95	77	6.4	9.11	18.2563
	88	1,3-Dichlorobenzene	105	97	101	104	105	103	100	105	98	83	4.5	6.67	18.4161
	89	1,4-Dichlorobenzene	103	98	103	104	104	103	100	104	98	83	4.4	6.58	18.5863
	90	n-Butylbenzene	112	99	107	105	105	103	98	102	92	75	6.9	10.13	18.9059
	91	1,2-Dichlorobenzene	100	99	104	106	104	104	99	104	96	83	4.4	6.68	19.1441
	92	1,2-Dibromo-3-chloropropane	------	108	102	92	100	103	102	108	98	91	4.7	5.97	20.1931
	93	1,2,4-Trichlorobenzene	108	95	105	103	104	102	100	103	96	85	4.8	6.51	21.3340
	94	Hexachlorobutadiene	104	100	108	103	106	104	97	102	94	82	5.4	7.65	21.5145
	95	Naphthalene	102	89	96	96	98	99	104	111	106	99	4.5	6.04	21.7024
	96	1,2,3-Trichlorobenzene	114	103	102	101	102	100	98	100	94	85	4.6	7.34	22.0382

SG
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Compound List Report TO01

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
Total Cpnds : 96

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	8.81	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	2.22	0.251	A	1	A	B
3	T	Dichlorotetrafluoroethane	85	3.34	0.379	A	2	A	B
4	T	Chloromethane	50	2.48	0.282	A	1	A	B
5	T	Vinyl chloride	62	2.66	0.302	A	1	A	B
6	T	Bromomethane	94	3.18	0.361	A	1	A	B
7	T	Chloroethane	64	3.25	0.369	A	2	A	B
8	T	Dichlorofluoromethane	67	3.34	0.379	A	1	A	B
9	T	Trichlorofluoromethane	101	3.64	0.413	A	1	A	B
10	T	sec-Propyl alcohol	45	5.26	0.597	A	1	A	B
11	T	Acrolein	56	4.14	0.470	A	1	A	B
12	T	1,1,2-Trichloro-1,2,2-trifluor	151	4.20	0.476	A	1	A	B
13	T	Acetone	43	4.23	0.480	A	2	A	B
14	T	1,1-Dichloroethene	61	4.39	0.498	A	2	A	B
15	T	tert-Butyl alcohol	59	4.52	0.513	A	1	A	B
16	T	Acetonitrile	41	0.00	0.000	A	2	A	B
17	T	Iodomethane	142	4.81	0.545	A	1	A	B
18	T	Methyl acetate	43	6.64	0.753	A	1	A	B
19	T	Methylene chloride	49	5.04	0.572	A	2	A	B
20	T	Carbon disulfide	76	5.07	0.575	L	1	A	B
21	T	Acrylonitrile	53	5.21	0.590	A	2	A	B
22	T	tert-Butyl methyl ether (MTBE)	73	5.26	0.597	A	1	A	B
23	T	trans-1,2-Dichloroethene	61	5.44	0.617	A	2	A	B
24	T	Isopropyl ether (DIPE)	45	5.89	0.668	A	1	A	B
25	T	Vinyl acetate	43	6.03	0.684	A	1	A	B
26	T	1,1-Dichloroethane	63	6.05	0.686	A	2	A	B
27	T	2-Butanol	45	8.80	0.998	A	1	A	B
28	T	tert-Butyl ethyl ether (ETBE)	59	6.48	0.735	A	1	A	B
29	T	2-Butanone	43	6.64	0.753	A	1	A	B
30	T	2,2-Dichloropropane	77	6.85	0.777	A	2	A	B
31	T	cis-1,2-Dichloroethene	96	6.92	0.785	A	2	A	B
32	T	Chloroform	83	7.14	0.810	A	2	A	B
33	T	Bromochloromethane	49	7.38	0.837	A	2	A	B
34	S	Dibromofluoromethane	111	7.47	0.847	A	2	A	B
35	T	Tetrahydrofuran	42	0.00	0.000	A	2	A	B
36	T	1,1,1-Trichloroethane	97	7.75	0.879	A	2	A	B
37	T	Cyclohexane	56	10.55	1.196	A	2	A	B
38	T	1-Butanol	56	10.55	1.196	A	2	A	B
39	T	tert-Amyl methyl ether (TAME)	87	8.16	0.926	A	2	A	B
40	S	1,2-Dichloroethane-d4	65	8.21	0.931	A	1	A	B
41	I	CHLOROBENZENE-D5	117	14.02	1.000	A	2	A	B
42	T	1,1-Dichloropropene	110	7.97	0.568	A	1	A	B
43	T	Carbon tetrachloride	119	8.14	0.580	A	1	A	B
44	T	1,2-Dichloroethane	62	8.36	0.596	A	1	A	B
45	T	Benzene	78	8.39	0.598	A	2	A	B
46	T	Trichloroethene	130	9.33	0.666	A	3	A	B
47	T	Methylcyclohexane	83	12.47	0.889	A	2	A	B
48	T	1,2-Dichloropropane	63	9.61	0.686	A	2	A	B
49	T	1,4-Dioxane	88	10.06	0.717	A	1	A	B
50	T	Bromodichloromethane	83	10.00	0.713	A	1	A	B
51	T	Dibromomethane	93	10.09	0.719	A	2	A	B
52	T	2-Chloroethyl vinyl ether	63	10.49	0.748	A	2	A	B

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53	T	4-Methyl-2-pentanone	43	10.55	0.752	A	3	A	B
54	T	cis-1,3-Dichloropropene	75	10.89	0.776	A	3	A	B
55	S	Toluene-d8	98	11.32	0.807	A	1	A	B
56	T	Toluene	91	11.45	0.816	A	1	A	B
57	T	Ethyl methacrylate	69	11.73	0.836	A	2	A	B
58	T	trans-1,3-Dichloropropene	75	11.75	0.838	A	2	A	B
59	T	2-Hexanone	43	12.04	0.859	A	2	A	B
60	T	1,1,2-Trichloroethane	97	12.03	0.858	A	3	A	B
61	T	1,3-Dichloropropane	76	12.47	0.889	A	1	A	B
62	T	Tetrachloroethene	164	12.60	0.899	A	3	A	B
63	T	Dibromochloromethane	129	12.96	0.924	A	1	A	B
64	T	1,2-Dibromoethane	107	13.33	0.950	A	1	A	B
65	T	1-Chlorohexane	91	13.61	0.970	A	3	A	B
66	P	Chlorobenzene	112	14.08	1.004	A	3	A	B
67	T	1,1,1,2-Tetrachloroethane	131	14.17	1.011	A	3	A	B
68	T	Ethylbenzene	91	14.19	1.012	A	1	A	B
69	T	m-Xylene & p-Xylene	91	14.32	1.021	A	1	A	B
70	T	o-Xylene	91	15.15	1.080	A	1	A	B
71	T	Styrene	104	15.22	1.085	A	2	A	B
72	I	1,2-DICHLOROBENZENE-D4	152	19.10	1.000	A	1	A	B
73	T	Isopropylbenzene	105	15.83	0.829	A	3	A	B
74	T	Bromoform	173	15.87	0.831	A	2	A	B
75	T	1,1,2,2-Tetrachloroethane	83	16.15	0.846	A	1	A	B
76	S	4-Bromofluorobenzene	95	16.32	0.854	A	2	A	B
77	T	1,2,3-Trichloropropane	110	16.45	0.861	A	2	A	B
78	T	trans-1,4-Dichloro-2-butene	53	16.58	0.868	A	1	A	B
79	T	n-Propylbenzene	91	16.61	0.870	A	2	A	B
80	T	Bromobenzene	156	16.70	0.874	A	2	A	B
81	T	1,3,5-Trimethylbenzene	105	16.92	0.886	A	2	A	B
82	T	2-Chlorotoluene	91	16.95	0.888	A	1	A	B
83	T	4-Chlorotoluene	91	17.06	0.893	A	1	A	B
84	T	tert-Butylbenzene	134	17.62	0.923	A	2	A	B
85	T	1,2,4-Trimethylbenzene	105	17.69	0.926	A	1	A	B
86	T	sec-Butylbenzene	105	18.02	0.943	A	1	A	B
87	T	p-Isopropyltoluene	119	18.26	0.956	A	2	A	B
88	T	1,3-Dichlorobenzene	146	18.42	0.964	A	2	A	B
89	T	1,4-Dichlorobenzene	146	18.58	0.973	A	2	A	B
90	T	n-Butylbenzene	91	18.91	0.990	A	2	A	B
91	T	1,2-Dichlorobenzene	146	19.14	1.002	A	2	A	B
92	T	1,2-Dibromo-3-chloropropane	157	20.19	1.057	A	2	A	B
93	T	1,2,4-Trichlorobenzene	180	21.33	1.117	A	2	A	B
94	T	Hexachlorobutadiene	225	21.53	1.127	A	2	A	B
95	T	Naphthalene	128	21.70	1.136	A	1	A	B
96	T	1,2,3-Trichlorobenzene	180	22.04	1.154	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

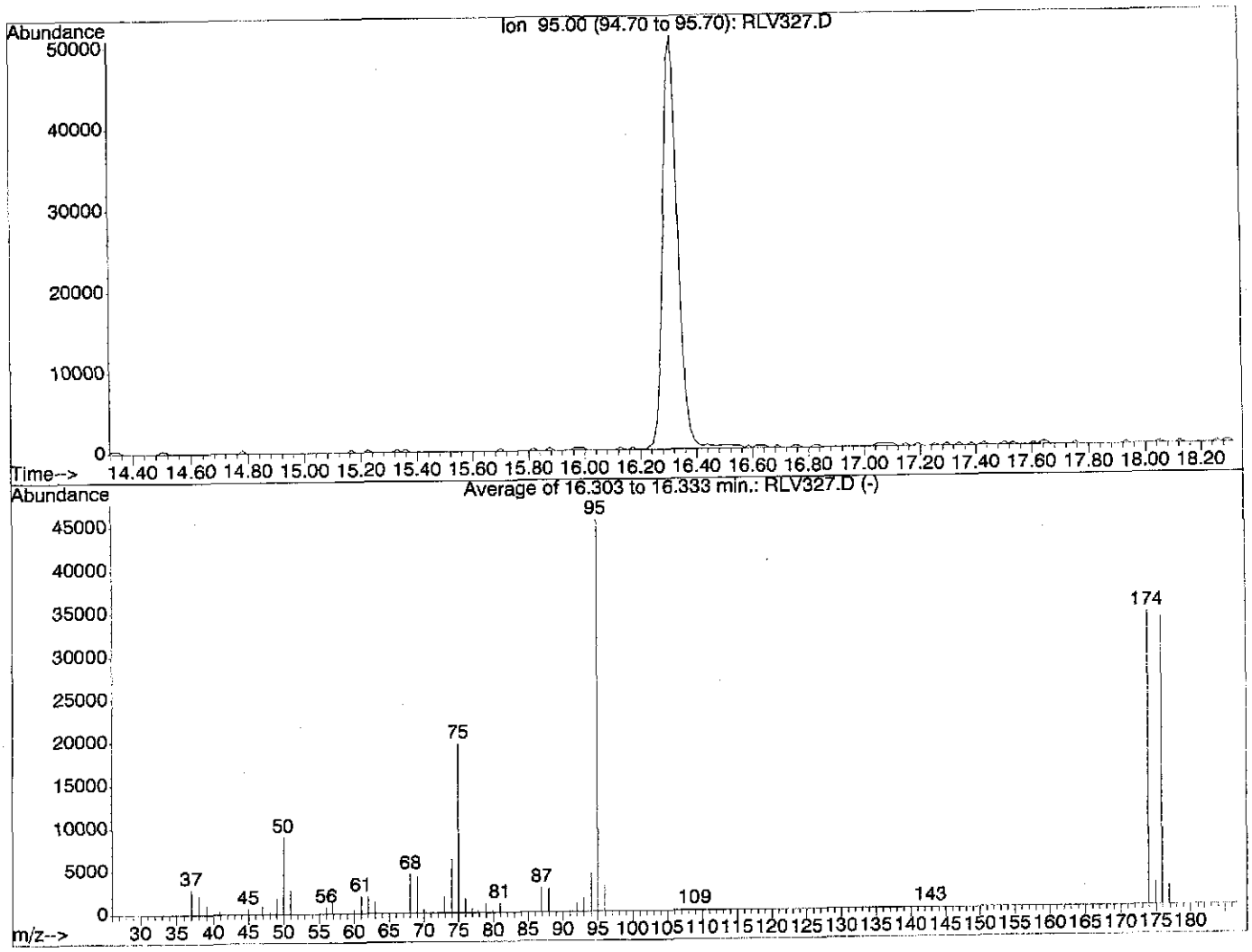
VO01L11.M Mon Dec 13 08:17:35 2010

SC 12/16/10

BFB

Data File : D:\HPCHEM\1\DATA\10L11\RLV327.D
Acq On : 11 Dec 2010 9:15 am
Sample : BFB01L15
Misc : T/CHECK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 1
Operator: DN
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 965, 966, 967; Background Corrected with Scan 958

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.7	8978	PASS
75	95	30	60	43.3	19682	PASS
95	95	100	100	100.0	45499	PASS
96	95	5	9	6.7	3045	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	74.8	34048	PASS
175	174	5	9	7.5	2548	PASS
176	174	95	101	98.3	33467	PASS
177	176	5	9	6.6	2202	PASS

RLV327.D VO01L11.M Mon Dec 13 08:01:36 2010

Sa 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1433620	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1213888	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.10	152	424948	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	13769	0.32	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	3.20%	
40) 1,2-Dichloroethane-d4	8.21	65	10656	0.32	ug/l	0.00
Spiked Amount 10.000			Recovery	=	3.20%	
55) Toluene-d8	11.32	98	66249	0.42	ug/l	0.00
Spiked Amount 10.000			Recovery	=	4.20%	
76) 4-Bromofluorobenzene	16.32	95	23976	0.50	ug/l	0.00
Spiked Amount 10.000			Recovery	=	5.00%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	8296	0.33	ug/l	99
4) Chloromethane	2.45	50	21931	0.43	ug/l	95
5) Vinyl chloride	2.65	62	15307	0.37	ug/l	94
6) Bromomethane	3.16	94	11315	0.36	ug/l	93
7) Chloroethane	3.25	64	11653	0.35	ug/l	82
8) Dichlorofluoromethane	3.33	67	27765	0.33	ug/l	85
9) Trichlorofluoromethane	3.62	101	16483	0.35	ug/l	100
11) Acrolein	4.15	56	7555	3.28	ug/l #	69
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	6961	0.30	ug/l	92
13) Acetone	4.23	43	11467	2.03	ug/l #	64
14) 1,1-Dichloroethene	4.39	61	21545	0.33	ug/l	97
15) tert-Butyl alcohol	4.55	59	3230	1.54	ug/l	100
17) Iodomethane	4.81	142	21257	0.31	ug/l	97
19) Methylene chloride	5.04	49	24035	0.35	ug/l	99
20) Carbon disulfide	5.07	76	47390	0.42	ug/l	95
21) Acrylonitrile	5.21	53	12300	1.64	ug/l	96
22) tert-Butyl methyl ether (M	5.29	73	19274	0.30	ug/l	81
23) trans-1,2-Dichloroethene	5.44	61	23448	0.32	ug/l	98
24) Isopropyl ether (DIPE)	5.92	45	54218	0.30	ug/l	95
25) Vinyl acetate	6.05	43	23006	0.34	ug/l	96
26) 1,1-Dichloroethane	6.05	63	27900	0.31	ug/l	97
28) tert-Butyl ethyl ether (ET	6.51	59	32114	0.30	ug/l	98
29) 2-Butanone	6.67	43	16857	1.59	ug/l	91
30) 2,2-Dichloropropane	6.85	77	18748	0.34	ug/l	97
31) cis-1,2-Dichloroethene	6.91	96	15713	0.30	ug/l	96
32) Chloroform	7.14	83	24241	0.31	ug/l	99
33) Bromochloromethane	7.38	49	11545	0.29	ug/l	97

(#) = qualifier out of range (m) = manual integration
RLV328.D VO01L11.M Mon Dec 13 08:01:48 2010

SA 12/16/10

2164

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36) 1,1,1-Trichloroethane	7.75	97	17559	0.31 ug/l		98
39) tert-Amyl methyl ether (TA	8.19	87	4406	0.28 ug/l	#	73
42) 1,1-Dichloropropene	7.97	110	8059	0.35 ug/l		93
43) Carbon tetrachloride	8.13	119	15196	0.33 ug/l		94
44) 1,2-Dichloroethane	8.36	62	11980	0.29 ug/l		98
45) Benzene	8.39	78	61463	0.33 ug/l		99
46) Trichloroethene	9.33	130	14935	0.30 ug/l		87
48) 1,2-Dichloropropane	9.61	63	15732	0.30 ug/l		83
50) Bromodichloromethane	10.00	83	16810	0.30 ug/l		100
51) Dibromomethane	10.09	93	5682	0.28 ug/l	#	82
52) 2-Chloroethyl vinyl ether	10.49	63	3678	0.28 ug/l	#	73
53) 4-Methyl-2-pentanone	10.59	43	37338	1.40 ug/l		90
54) cis-1,3-Dichloropropene	10.89	75	21592	0.31 ug/l		90
56) Toluene	11.45	91	63591	0.33 ug/l		97
57) Ethyl methacrylate	11.76	69	12890	0.34 ug/l		72
58) trans-1,3-Dichloropropene	11.74	75	15278	0.31 ug/l	#	74
59) 2-Hexanone	12.07	43	26785	1.61 ug/l		93
60) 1,1,2-Trichloroethane	12.03	97	7993	0.30 ug/l		96
61) 1,3-Dichloropropane	12.47	76	15727	0.30 ug/l		99
62) Tetrachloroethene	12.60	164	12554	0.33 ug/l		96
63) Dibromochloromethane	12.96	129	9223	0.28 ug/l		97
64) 1,2-Dibromoethane	13.31	107	7751	0.30 ug/l		81
65) 1-Chlorohexane	13.59	91	26456	0.33 ug/l		95
66) Chlorobenzene	14.08	112	35278	0.31 ug/l	#	72
67) 1,1,1,2-Tetrachloroethane	14.16	131	12115	0.33 ug/l	#	1
68) Ethylbenzene	14.17	91	69403	0.32 ug/l		100
69) m-Xylene & p-Xylene	14.32	91	99746	0.61 ug/l		99
70) o-Xylene	15.15	91	49423	0.31 ug/l		99
71) Styrene	15.21	104	35899	0.30 ug/l		97
73) Isopropylbenzene	15.83	105	60323	0.32 ug/l		100
74) Bromoform	15.86	173	4088	0.26 ug/l		91
75) 1,1,2,2-Tetrachloroethane	16.15	83	9420	0.31 ug/l		99
77) 1,2,3-Trichloropropane	16.45	110	2638	0.34 ug/l		90
78) trans-1,4-Dichloro-2-buten	16.58	53	2052	0.26 ug/l	#	38
79) n-Propylbenzene	16.60	91	79092	0.32 ug/l		99
80) Bromobenzene	16.69	156	11581	0.30 ug/l		90
81) 1,3,5-Trimethylbenzene	16.92	105	46469	0.32 ug/l		99
82) 2-Chlorotoluene	16.95	91	48631	0.32 ug/l		93
83) 4-Chlorotoluene	17.04	91	41181	0.32 ug/l		96
84) tert-Butylbenzene	17.62	134	10758	0.32 ug/l		96
85) 1,2,4-Trimethylbenzene	17.69	105	45044	0.31 ug/l		99

(#) = qualifier out of range (m) = manual integration

12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) sec-Butylbenzene	18.02	105	65309	0.32 ug/l	99
87) p-Isopropyltoluene	18.26	119	50728	0.32 ug/l	98
88) 1,3-Dichlorobenzene	18.40	146	24811	0.31 ug/l	97
89) 1,4-Dichlorobenzene	18.58	146	23331	0.31 ug/l	99
90) n-Butylbenzene	18.91	91	54812	0.33 ug/l	97
91) 1,2-Dichlorobenzene	19.14	146	19249	0.30 ug/l	77
93) 1,2,4-Trichlorobenzene	21.33	180	12663	0.33 ug/l	94
94) Hexachlorobutadiene	21.51	225	7787	0.31 ug/l	97
95) Naphthalene	21.70	128	13771	0.31 ug/l	95
96) 1,2,3-Trichlorobenzene	22.03	180	10670	0.34 ug/l	89

SM 12/16/10

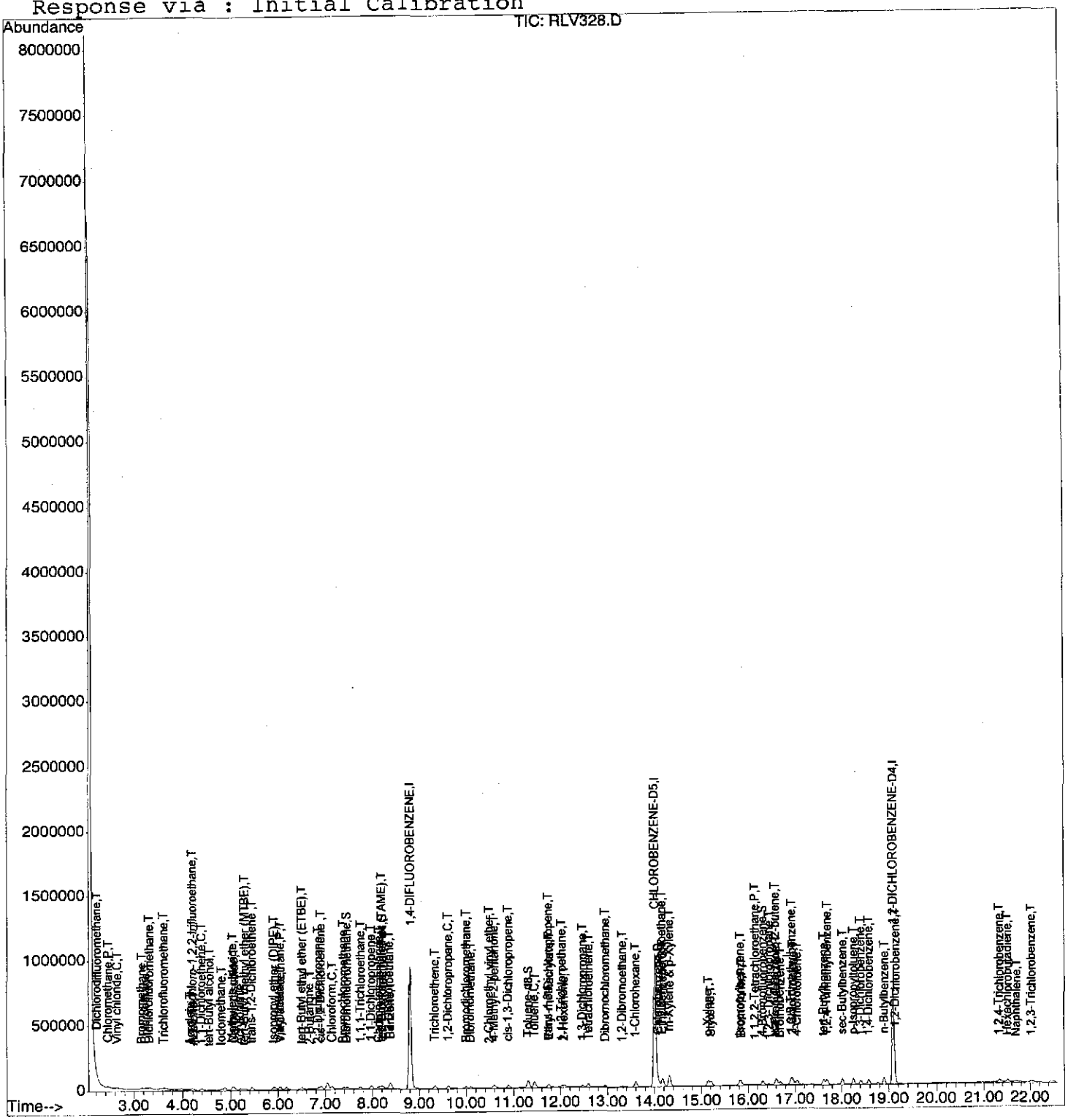
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV328.D
Acq On : 11 Dec 2010 9:56 am
Sample : VO01L111 0.3ppb
Misc : 0.3ppb8260/1.5ppbKET-A-TBA/1.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 2
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Sw 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1521088	10.00 ug/l	-0.01
41) CHLOROBENZENE-D5	14.01	117	1333515	10.00 ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	458640	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	15643	0.34 ug/l	0.00
Spiked Amount 10.000			Recovery	= 3.40%	
40) 1,2-Dichloroethane-d4	8.21	65	12225	0.34 ug/l	0.00
Spiked Amount 10.000			Recovery	= 3.40%	
55) Toluene-d8	11.32	98	61858	0.36 ug/l	0.00
Spiked Amount 10.000			Recovery	= 3.60%	
76) 4-Bromofluorobenzene	16.32	95	24297	0.47 ug/l	0.00
Spiked Amount 10.000			Recovery	= 4.70%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	13208	0.50 ug/l	88
4) Chloromethane	2.47	50	31403	0.58 ug/l	99
5) Vinyl chloride	2.65	62	23347	0.53 ug/l	96
6) Bromomethane	3.17	94	15533	0.47 ug/l	93
7) Chloroethane	3.25	64	18935	0.53 ug/l	92
8) Dichlorofluoromethane	3.33	67	43974	0.49 ug/l	92
9) Trichlorofluoromethane	3.62	101	25292	0.50 ug/l	99
11) Acrolein	4.13	56	8779	3.59 ug/l	96
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	12073	0.50 ug/l	94
13) Acetone	4.23	43	18520	3.09 ug/l	90
14) 1,1-Dichloroethene	4.39	61	34274	0.49 ug/l	98
15) tert-Butyl alcohol	4.56	59	4969	2.23 ug/l	93
17) Iodomethane	4.81	142	34831	0.47 ug/l	99
19) Methylene chloride	5.04	49	44922	0.62 ug/l	99
20) Carbon disulfide	5.07	76	49620	0.42 ug/l	97
21) Acrylonitrile	5.21	53	19345	2.43 ug/l	96
22) tert-Butyl methyl ether (M	5.30	73	32633	0.47 ug/l	92
23) trans-1,2-Dichloroethene	5.44	61	37852	0.48 ug/l	98
24) Isopropyl ether (DIPE)	5.92	45	95196	0.49 ug/l	98
25) Vinyl acetate	6.04	43	38675	0.55 ug/l	97
26) 1,1-Dichloroethane	6.04	63	46226	0.48 ug/l	100
28) tert-Butyl ethyl ether (ET	6.51	59	55762	0.49 ug/l	99
29) 2-Butanone	6.67	43	26454	2.35 ug/l	100
30) 2,2-Dichloropropane	6.85	77	29770	0.51 ug/l	98
31) cis-1,2-Dichloroethene	6.91	96	27968	0.50 ug/l	99
32) Chloroform	7.15	83	39972	0.48 ug/l	98
33) Bromochloromethane	7.38	49	19450	0.47 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
36) 1,1,1-Trichloroethane	7.74	97	29362	0.49 ug/l		98
39) tert-Amyl methyl ether (TA	8.18	87	7984	0.47 ug/l	#	72
42) 1,1-Dichloropropene	7.97	110	13144	0.51 ug/l		96
43) Carbon tetrachloride	8.14	119	24665	0.49 ug/l		97
44) 1,2-Dichloroethane	8.36	62	20925	0.47 ug/l		97
45) Benzene	8.39	78	101994	0.49 ug/l		100
46) Trichloroethene	9.34	130	26268	0.48 ug/l		94
48) 1,2-Dichloropropane	9.62	63	27669	0.48 ug/l		99
50) Bromodichloromethane	9.99	83	28918	0.47 ug/l		98
51) Dibromomethane	10.07	93	10631	0.48 ug/l		86
52) 2-Chloroethyl vinyl ether	10.49	63	5701	0.40 ug/l		95
53) 4-Methyl-2-pentanone	10.58	43	61343	2.09 ug/l		89
54) cis-1,3-Dichloropropene	10.89	75	36765	0.47 ug/l		93
56) Toluene	11.45	91	105638	0.50 ug/l		100
57) Ethyl methacrylate	11.75	69	19238	0.47 ug/l		98
58) trans-1,3-Dichloropropene	11.75	75	24351	0.45 ug/l		84
59) 2-Hexanone	12.07	43	41459	2.27 ug/l		96
60) 1,1,2-Trichloroethane	12.03	97	14135	0.48 ug/l		97
61) 1,3-Dichloropropane	12.47	76	27644	0.48 ug/l		99
62) Tetrachloroethene	12.59	164	20142	0.49 ug/l		99
63) Dibromochloromethane	12.95	129	16925	0.47 ug/l		99
64) 1,2-Dibromoethane	13.32	107	13363	0.46 ug/l		90
65) 1-Chlorohexane	13.60	91	42897	0.49 ug/l		97
66) Chlorobenzene	14.08	112	61512	0.48 ug/l		83
67) 1,1,1,2-Tetrachloroethane	14.16	131	19003	0.46 ug/l	#	67
68) Ethylbenzene	14.17	91	116017	0.48 ug/l		99
69) m-Xylene & p-Xylene	14.32	91	172482	0.97 ug/l		99
70) o-Xylene	15.15	91	85196	0.49 ug/l		98
71) Styrene	15.21	104	59399	0.45 ug/l		96
73) Isopropylbenzene	15.83	105	99896	0.50 ug/l		99
74) Bromoform	15.86	173	7378	0.43 ug/l		95
75) 1,1,2,2-Tetrachloroethane	16.16	83	16510	0.50 ug/l		95
77) 1,2,3-Trichloropropane	16.45	110	5265	0.64 ug/l		73
78) trans-1,4-Dichloro-2-buten	16.57	53	4052	0.48 ug/l	#	38
79) n-Propylbenzene	16.60	91	133455	0.50 ug/l		99
80) Bromobenzene	16.69	156	20410	0.48 ug/l		96
81) 1,3,5-Trimethylbenzene	16.91	105	78055	0.49 ug/l		99
82) 2-Chlorotoluene	16.96	91	83350	0.51 ug/l		97
83) 4-Chlorotoluene	17.04	91	69196	0.49 ug/l		97
84) tert-Butylbenzene	17.62	134	18028	0.50 ug/l		97
85) 1,2,4-Trimethylbenzene	17.70	105	76744	0.49 ug/l		98

(#) = qualifier out of range (m) = manual integration
RLV329.D VO01L11.M Mon Dec 13 08:02:03 2010

SU 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) sec-Butylbenzene	18.02	105	109750	0.50 ug/l	100
87) p-Isopropyltoluene	18.26	119	82798	0.49 ug/l	98
88) 1,3-Dichlorobenzene	18.41	146	41189	0.48 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	39860	0.49 ug/l	96
90) n-Butylbenzene	18.89	91	87755	0.50 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	34258	0.50 ug/l	89
92) 1,2-Dibromo-3-chloropropan	20.18	157	2193	0.54 ug/l	79
93) 1,2,4-Trichlorobenzene	21.33	180	19913	0.47 ug/l	95
94) Hexachlorobutadiene	21.51	225	13434	0.50 ug/l	98
95) Naphthalene	21.69	128	21678	0.45 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	17284	0.51 ug/l	90

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(#) = qualifier out of range (m) = manual integration

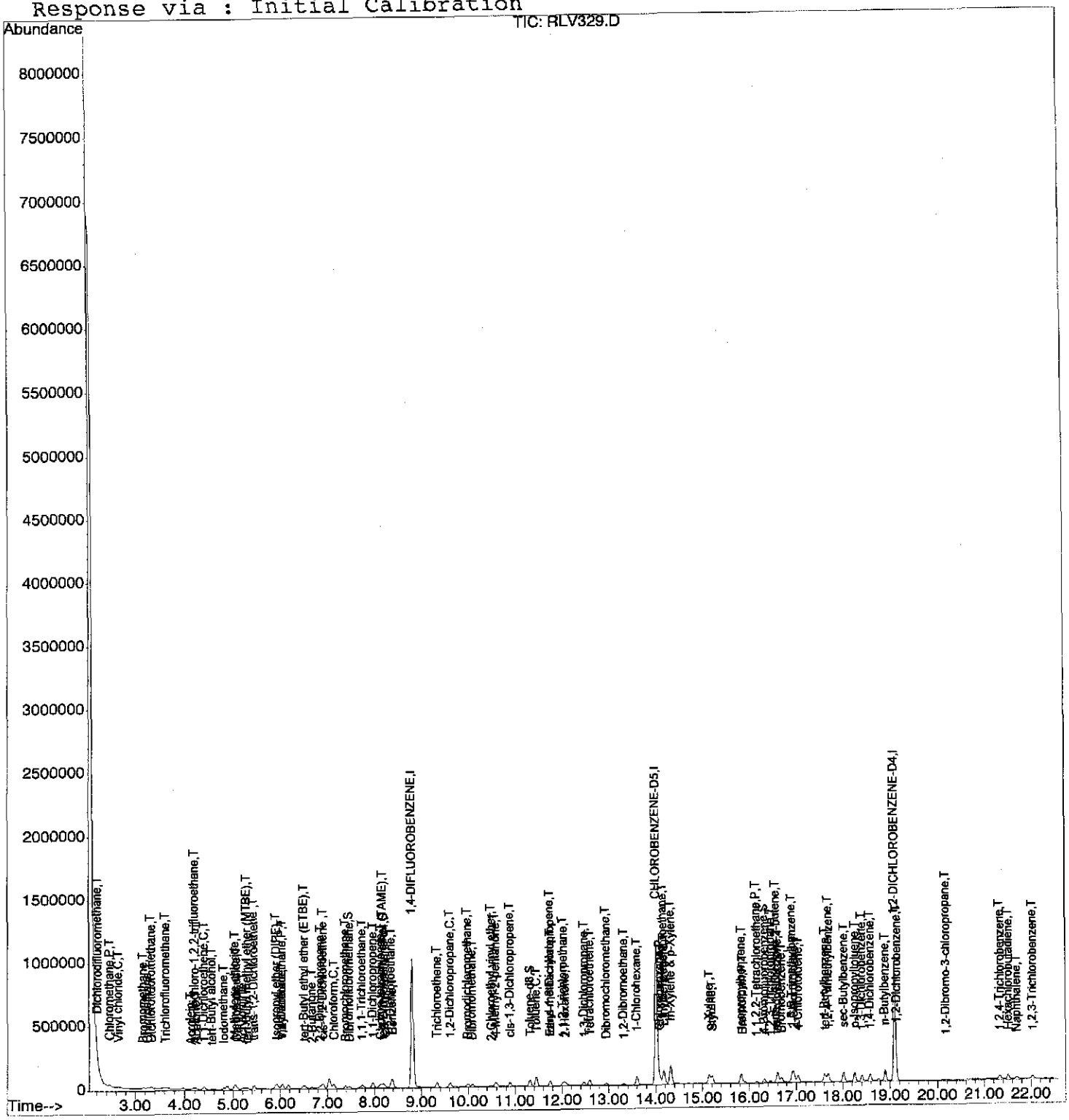
Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV329.D
Acq On : 11 Dec 2010 10:28 am
Sample : VO01L112 0.5ppb
Misc : 0.5ppb8260/2.5ppbKET-A-TBA/2.5ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 3
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SA 12/16/10

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Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.81	114	1454606	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1245152	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	440304	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	43841	1.01 ug/l	0.00
Spiked Amount 10.000			Recovery	= 10.10%	
40) 1,2-Dichloroethane-d4	8.22	65	35082	1.03 ug/l	0.01
Spiked Amount 10.000			Recovery	= 10.30%	
55) Toluene-d8	11.31	98	168773	1.04 ug/l	0.00
Spiked Amount 10.000			Recovery	= 10.40%	
76) 4-Bromofluorobenzene	16.32	95	58835	1.18 ug/l	0.00
Spiked Amount 10.000			Recovery	= 11.80%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.21	85	27346	1.07 ug/l	99
4) Chloromethane	2.47	50	52732	1.01 ug/l	95
5) Vinyl chloride	2.66	62	46606	1.10 ug/l	97
6) Bromomethane	3.16	94	33117	1.05 ug/l	97
7) Chloroethane	3.25	64	34125	1.01 ug/l	89
8) Dichlorofluoromethane	3.34	67	89930	1.06 ug/l	94
9) Trichlorofluoromethane	3.64	101	50086	1.04 ug/l	100
11) Acrolein	4.14	56	15814	6.76 ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	25146	1.09 ug/l	95
13) Acetone	4.24	43	29978	5.22 ug/l	91
14) 1,1-Dichloroethene	4.40	61	69899	1.04 ug/l	99
15) tert-Butyl alcohol	4.57	59	10222	4.79 ug/l	91
17) Iodomethane	4.82	142	71979	1.02 ug/l	98
19) Methylene chloride	5.04	49	76397	1.10 ug/l	99
20) Carbon disulfide	5.07	76	166161	1.09 ug/l	97
21) Acrylonitrile	5.22	53	38937	5.12 ug/l	95
22) tert-Butyl methyl ether (M	5.29	73	68237	1.03 ug/l	97
23) trans-1,2-Dichloroethene	5.46	61	76938	1.03 ug/l	99
24) Isopropyl ether (DIPE)	5.91	45	188677	1.03 ug/l	99
25) Vinyl acetate	6.05	43	72232	1.07 ug/l	99
26) 1,1-Dichloroethane	6.05	63	95940	1.04 ug/l	99
28) tert-Butyl ethyl ether (ET	6.49	59	114364	1.04 ug/l	97
29) 2-Butanone	6.67	43	55966	5.20 ug/l	99
30) 2,2-Dichloropropane	6.86	77	60955	1.10 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	55755	1.03 ug/l	99
32) Chloroform	7.14	83	80568	1.02 ug/l	99
33) Bromochloromethane	7.39	49	40992	1.03 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	60543	1.05 ug/l	99
39) tert-Amyl methyl ether (TA	8.18	87	16889	1.04 ug/l	90
42) 1,1-Dichloropropene	7.99	110	25041	1.05 ug/l	100
43) Carbon tetrachloride	8.13	119	48385	1.03 ug/l	100
44) 1,2-Dichloroethane	8.36	62	43519	1.04 ug/l	97
45) Benzene	8.38	78	204513	1.06 ug/l	100
46) Trichloroethene	9.33	130	54343	1.06 ug/l	97
48) 1,2-Dichloropropane	9.63	63	54912	1.03 ug/l	95
49) 1,4-Dioxane	10.09	88	1783	10.55 ug/l #	1
50) Bromodichloromethane	10.00	83	56988	1.00 ug/l	99
51) Dibromomethane	10.09	93	20834	1.02 ug/l	95
52) 2-Chloroethyl vinyl ether	10.49	63	13088	0.99 ug/l	98
53) 4-Methyl-2-pentanone	10.57	43	140336	5.12 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	74471	1.03 ug/l	96
56) Toluene	11.45	91	210535	1.06 ug/l	99
57) Ethyl methacrylate	11.74	69	39445	1.02 ug/l	99
58) trans-1,3-Dichloropropene	11.76	75	51675	1.01 ug/l	92
59) 2-Hexanone	12.07	43	88344	5.18 ug/l	96
60) 1,1,2-Trichloroethane	12.02	97	28245	1.03 ug/l	99
61) 1,3-Dichloropropane	12.47	76	54055	1.01 ug/l	98
62) Tetrachloroethene	12.60	164	40228	1.04 ug/l	99
63) Dibromochloromethane	12.96	129	33427	0.99 ug/l	100
64) 1,2-Dibromoethane	13.33	107	27038	1.01 ug/l	87
65) 1-Chlorohexane	13.61	91	88145	1.09 ug/l	99
66) Chlorobenzene	14.08	112	121787	1.03 ug/l	90
67) 1,1,1,2-Tetrachloroethane	14.17	131	39658	1.04 ug/l #	69
68) Ethylbenzene	14.19	91	235043	1.04 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	342508	2.06 ug/l	100
70) o-Xylene	15.15	91	168545	1.04 ug/l	99
71) Styrene	15.21	104	122083	1.00 ug/l	99
73) Isopropylbenzene	15.83	105	206738	1.07 ug/l	100
74) Bromoform	15.86	173	16270	1.00 ug/l	97
75) 1,1,2,2-Tetrachloroethane	16.15	83	32480	1.03 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	8542	1.08 ug/l	95
78) trans-1,4-Dichloro-2-buten	16.58	53	8184	1.01 ug/l	90
79) n-Propylbenzene	16.61	91	272774	1.06 ug/l	100
80) Bromobenzene	16.70	156	40867	1.01 ug/l	95
81) 1,3,5-Trimethylbenzene	16.92	105	164615	1.08 ug/l	98
82) 2-Chlorotoluene	16.95	91	164193	1.05 ug/l	93
83) 4-Chlorotoluene	17.04	91	140740	1.05 ug/l	94
84) tert-Butylbenzene	17.62	134	36464	1.06 ug/l	97

(#) = qualifier out of range (m) = manual integration

SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	157517	1.05 ug/l	99
86) sec-Butylbenzene	18.02	105	230075	1.09 ug/l	100
87) p-Isopropyltoluene	18.25	119	172984	1.07 ug/l	98
88) 1,3-Dichlorobenzene	18.42	146	82522	1.01 ug/l	98
89) 1,4-Dichlorobenzene	18.58	146	80692	1.03 ug/l	99
90) n-Butylbenzene	18.91	91	182145	1.07 ug/l	99
91) 1,2-Dichlorobenzene	19.14	146	69033	1.04 ug/l	95
92) 1,2-Dibromo-3-chloropropan	20.19	157	4006	1.02 ug/l	91
93) 1,2,4-Trichlorobenzene	21.33	180	42169	1.05 ug/l	99
94) Hexachlorobutadiene	21.51	225	27863	1.08 ug/l	99
95) Naphthalene	21.70	128	44890	0.96 ug/l	99
96) 1,2,3-Trichlorobenzene	22.04	180	32992	1.02 ug/l	96

SU 12/16/10

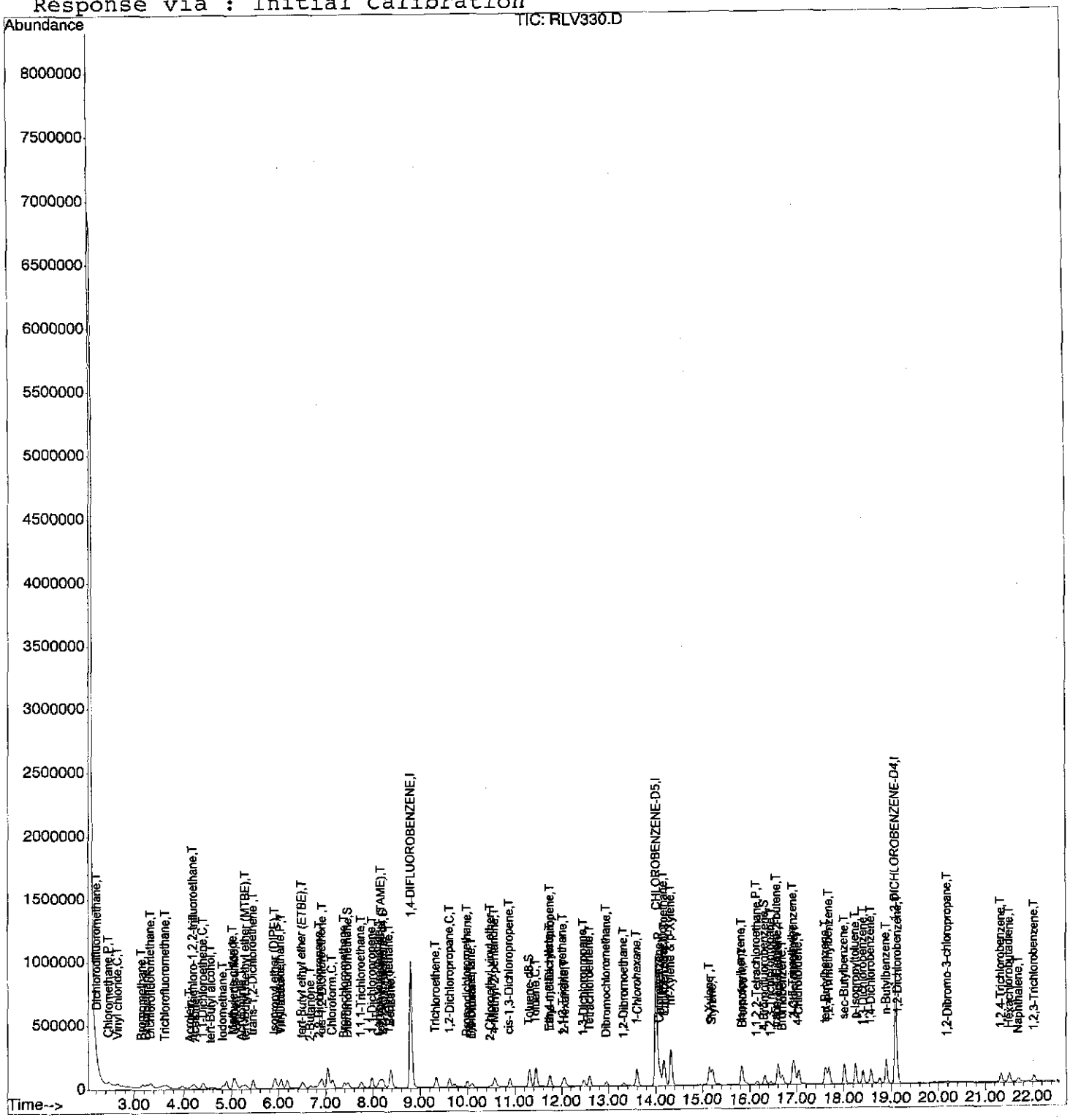
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV330.D
Acq On : 11 Dec 2010 11:02 am
Sample : VO01L113 1.0ppb
Misc : 1.0ppb8260/5.0ppbKET-A-TBA/5.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 4
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1495214	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.01	117	1274840	10.00 ug/l	-0.01
72) 1,2-DICHLOROBENZENE-D4	19.10	152	455962	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	78211	1.79 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.90%	
40) 1,2-Dichloroethane-d4	8.21	65	61601	1.80 ug/l	0.00
Spiked Amount 10.000			Recovery	= 18.00%	
55) Toluene-d8	11.32	98	292684	1.78 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.80%	
76) 4-Bromofluorobenzene	16.32	95	96030	1.72 ug/l	0.00
Spiked Amount 10.000			Recovery	= 17.20%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	53216	2.03 ug/l	95
4) Chloromethane	2.47	50	102715	1.91 ug/l	96
5) Vinyl chloride	2.65	62	86168	2.31 ug/l	99
6) Bromomethane	3.16	94	65481	2.02 ug/l	97
7) Chloroethane	3.25	64	66186	1.95 ug/l	96
8) Dichlorofluoromethane	3.33	67	184485	2.11 ug/l	98
9) Trichlorofluoromethane	3.62	101	98664	1.98 ug/l	98
11) Acrolein	4.14	56	26446	10.08 ug/l #	69
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	50420	2.12 ug/l	99
13) Acetone	4.23	43	63877	10.23 ug/l	96
14) 1,1-Dichloroethene	4.39	61	147800	2.15 ug/l	99
15) tert-Butyl alcohol	4.54	59	21456	9.87 ug/l	94
17) Iodomethane	4.81	142	152224	2.10 ug/l	99
19) Methylene chloride	5.04	49	151641	2.12 ug/l	99
20) Carbon disulfide	5.07	76	326667	1.97 ug/l	99
21) Acrylonitrile	5.21	53	81074	10.31 ug/l	98
22) tert-Butyl methyl ether (M	5.28	73	144393	2.12 ug/l	97
23) trans-1,2-Dichloroethene	5.44	61	161847	2.10 ug/l	100
24) Isopropyl ether (DIPE)	5.90	45	395864	2.09 ug/l	99
25) Vinyl acetate	6.05	43	133904	1.90 ug/l	99
26) 1,1-Dichloroethane	6.05	63	198729	2.10 ug/l	100
28) tert-Butyl ethyl ether (ET	6.49	59	243852	2.16 ug/l	99
29) 2-Butanone	6.66	43	112542	10.19 ug/l	97
30) 2,2-Dichloropropane	6.86	77	123642	2.17 ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	115859	2.09 ug/l	99
32) Chloroform	7.14	83	170941	2.10 ug/l	100
33) Bromochloromethane	7.38	49	85991	2.10 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV331.D VO01L11.M Mon Dec 13 08:02:30 2010

SW 12/16/10

2176

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	123641	2.09 ug/l	99
39) tert-Amyl methyl ether (TA	8.18	87	35887	2.15 ug/l	96
42) 1,1-Dichloropropene	7.97	110	51932	2.12 ug/l	96
43) Carbon tetrachloride	8.14	119	101804	2.11 ug/l	98
44) 1,2-Dichloroethane	8.36	62	91204	2.13 ug/l	98
45) Benzene	8.39	78	418607	2.11 ug/l	100
46) Trichloroethene	9.33	130	110555	2.10 ug/l	96
48) 1,2-Dichloropropane	9.63	63	117288	2.14 ug/l	97
49) 1,4-Dioxane	10.07	88	6277	38.55 ug/l #	1
50) Bromodichloromethane	10.00	83	122744	2.09 ug/l	99
51) Dibromomethane	10.09	93	44532	2.12 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	26261	1.98 ug/l	96
53) 4-Methyl-2-pentanone	10.56	43	289440	10.56 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	154130	2.08 ug/l	99
56) Toluene	11.45	91	427500	2.11 ug/l	99
57) Ethyl methacrylate	11.75	69	82313	2.05 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	109780	2.10 ug/l	99
59) 2-Hexanone	12.06	43	180340	10.34 ug/l	98
60) 1,1,2-Trichloroethane	12.03	97	59599	2.13 ug/l	98
61) 1,3-Dichloropropane	12.47	76	117124	2.13 ug/l	100
62) Tetrachloroethene	12.60	164	84432	2.13 ug/l	99
63) Dibromochloromethane	12.96	129	71047	2.06 ug/l	98
64) 1,2-Dibromoethane	13.31	107	57512	2.09 ug/l	91
65) 1-Chlorohexane	13.61	91	176594	2.13 ug/l	98
66) Chlorobenzene	14.08	112	258573	2.13 ug/l	97
67) 1,1,1,2-Tetrachloroethane	14.16	131	80551	2.06 ug/l	96
68) Ethylbenzene	14.19	91	471566	2.10 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	712635	4.34 ug/l	100
70) o-Xylene	15.15	91	355978	2.15 ug/l	99
71) Styrene	15.21	104	262130	2.10 ug/l	100
73) Isopropylbenzene	15.83	105	431052	2.15 ug/l	100
74) Bromoform	15.86	173	34029	2.02 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	68708	2.10 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	16741	2.04 ug/l	96
78) trans-1,4-Dichloro-2-buten	16.58	53	16877	2.04 ug/l	96
79) n-Propylbenzene	16.61	91	565584	2.13 ug/l	99
80) Bromobenzene	16.70	156	87823	2.10 ug/l	98
81) 1,3,5-Trimethylbenzene	16.93	105	337649	2.14 ug/l	100
82) 2-Chlorotoluene	16.95	91	339170	2.10 ug/l	95
83) 4-Chlorotoluene	17.04	91	293989	2.11 ug/l	96
84) tert-Butylbenzene	17.62	134	76472	2.14 ug/l	98

(#) = qualifier out of range (m) = manual integration

SCR 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:40:36 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	328385	2.11 ug/l	98
86) sec-Butylbenzene	18.02	105	474348	2.16 ug/l	99
87) p-Isopropyltoluene	18.26	119	354792	2.12 ug/l	99
88) 1,3-Dichlorobenzene	18.42	146	175493	2.08 ug/l	99
89) 1,4-Dichlorobenzene	18.58	146	168519	2.07 ug/l	100
90) n-Butylbenzene	18.91	91	369252	2.10 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	145679	2.12 ug/l	98
92) 1,2-Dibromo-3-chloropropan	20.20	157	7463	1.83 ug/l	91
93) 1,2,4-Trichlorobenzene	21.33	180	85858	2.05 ug/l	98
94) Hexachlorobutadiene	21.51	225	55106	2.07 ug/l	97
95) Naphthalene	21.70	128	92856	1.92 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	67773	2.03 ug/l	98

SW 12/16/10

(#) = qualifier out of range (m) = manual integration

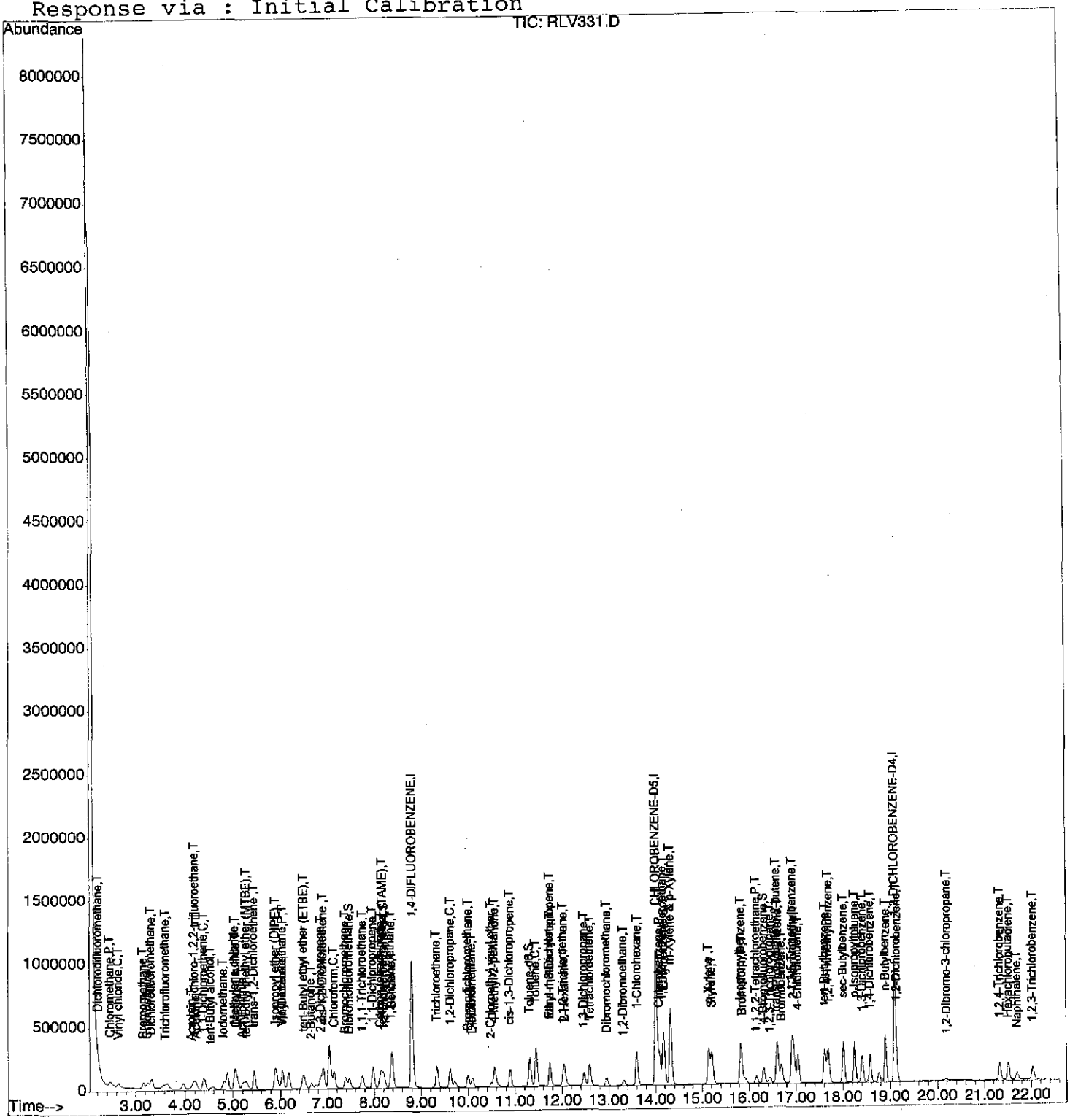
Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV331.D
Acq On : 11 Dec 2010 11:34 am
Sample : VO01L114 2.0ppb
Misc : 2.0ppb8260/10.0ppbKET-A-TBA/10.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:40 2010

Vial: 5
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Su 12/16/10

2179

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1476711	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1254303	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	449347	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	227173	5.13 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.30%	
40) 1,2-Dichloroethane-d4	8.21	65	174844	5.05 ug/l	0.00
Spiked Amount 10.000			Recovery	= 50.50%	
55) Toluene-d8	11.32	98	842023	5.15 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.50%	
76) 4-Bromofluorobenzene	16.32	95	264605	5.19 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.90%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	127906	4.95 ug/l	99
4) Chloromethane	2.48	50	240753	4.55 ug/l	98
5) Vinyl chloride	2.65	62	198039	4.59 ug/l	99
6) Bromomethane	3.16	94	153684	4.79 ug/l	98
7) Chloroethane	3.25	64	161266	4.69 ug/l	98
8) Dichlorofluoromethane	3.34	67	451507	5.22 ug/l	99
9) Trichlorofluoromethane	3.64	101	240933	4.91 ug/l	98
11) Acrolein	4.14	56	62230	26.20 ug/l	97
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	123418	5.25 ug/l	97
13) Acetone	4.23	43	141547	24.30 ug/l	97
14) 1,1-Dichloroethene	4.39	61	350012	5.15 ug/l	99
15) tert-Butyl alcohol	4.54	59	54701	25.24 ug/l	93
17) Iodomethane	4.82	142	372390	5.20 ug/l	100
19) Methylene chloride	5.04	49	342799	4.85 ug/l	99
20) Carbon disulfide	5.07	76	839941	4.85 ug/l	99
21) Acrylonitrile	5.22	53	189155	24.52 ug/l	99
22) tert-Butyl methyl ether (M	5.28	73	346873	5.17 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	399423	5.24 ug/l	100
24) Isopropyl ether (DIPE)	5.90	45	963238	5.16 ug/l	100
25) Vinyl acetate	6.05	43	319114	4.64 ug/l	100
26) 1,1-Dichloroethane	6.05	63	494314	5.30 ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	576919	5.19 ug/l	100
29) 2-Butanone	6.66	43	262461	24.03 ug/l	99
30) 2,2-Dichloropropane	6.86	77	296838	5.28 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	283435	5.18 ug/l	99
32) Chloroform	7.14	83	416514	5.17 ug/l	100
33) Bromochloromethane	7.40	49	209458	5.18 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV332.D VO01L11.M Mon Dec 13 08:02:44 2010

12/16/10

2180

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	306777	5.26 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	88795	5.38 ug/l	97
42) 1,1-Dichloropropene	7.97	110	126781	5.26 ug/l	99
43) Carbon tetrachloride	8.14	119	250825	5.29 ug/l	99
44) 1,2-Dichloroethane	8.36	62	220843	5.25 ug/l	100
45) Benzene	8.39	78	1013081	5.19 ug/l	99
46) Trichloroethene	9.33	130	270788	5.23 ug/l	99
48) 1,2-Dichloropropane	9.63	63	283868	5.27 ug/l	97
49) 1,4-Dioxane	10.06	88	16502	96.93 ug/l	83
50) Bromodichloromethane	10.00	83	301598	5.23 ug/l	99
51) Dibromomethane	10.09	93	108162	5.25 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	66815	5.00 ug/l	99
53) 4-Methyl-2-pentanone	10.56	43	684717	24.79 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	378039	5.19 ug/l	99
56) Toluene	11.45	91	1047611	5.25 ug/l	100
57) Ethyl methacrylate	11.75	69	200892	5.17 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	270192	5.26 ug/l	99
59) 2-Hexanone	12.06	43	425391	24.74 ug/l	98
60) 1,1,2-Trichloroethane	12.03	97	145176	5.27 ug/l	100
61) 1,3-Dichloropropane	12.47	76	285279	5.27 ug/l	99
62) Tetrachloroethene	12.60	164	206082	5.29 ug/l	100
63) Dibromochloromethane	12.96	129	176399	5.20 ug/l	99
64) 1,2-Dibromoethane	13.33	107	141498	5.23 ug/l	99
65) 1-Chlorohexane	13.61	91	437846	5.36 ug/l	100
66) Chlorobenzene	14.10	112	630899	5.28 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	201887	5.25 ug/l	99
68) Ethylbenzene	14.19	91	1186566	5.22 ug/l	99
69) m-Xylene & p-Xylene	14.32	91	1731436	10.32 ug/l	100
70) o-Xylene	15.15	91	858118	5.26 ug/l	100
71) Styrene	15.22	104	642832	5.23 ug/l	100
73) Isopropylbenzene	15.83	105	1040198	5.27 ug/l	100
74) Bromoform	15.87	173	87748	5.28 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	165736	5.15 ug/l	98
77) 1,2,3-Trichloropropane	16.45	110	39587	4.89 ug/l	95
78) trans-1,4-Dichloro-2-buten	16.58	53	42539	5.12 ug/l	99
79) n-Propylbenzene	16.61	91	1384848	5.29 ug/l	100
80) Bromobenzene	16.70	156	212972	5.16 ug/l	99
81) 1,3,5-Trimethylbenzene	16.92	105	814948	5.24 ug/l	99
82) 2-Chlorotoluene	16.95	91	808427	5.07 ug/l	99
83) 4-Chlorotoluene	17.06	91	723347	5.27 ug/l	100
84) tert-Butylbenzene	17.62	134	186182	5.28 ug/l	98

(#) = qualifier out of range (m) = manual integration

SW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	803930	5.24 ug/l	100
86) sec-Butylbenzene	18.02	105	1162362	5.37 ug/l	100
87) p-Isopropyltoluene	18.26	119	865714	5.24 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	436318	5.24 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	417630	5.22 ug/l	99
90) n-Butylbenzene	18.91	91	910338	5.26 ug/l	99
91) 1,2-Dichlorobenzene	19.14	146	351738	5.20 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.19	157	19914	4.96 ug/l	97
93) 1,2,4-Trichlorobenzene	21.33	180	213165	5.18 ug/l	99
94) Hexachlorobutadiene	21.51	225	139383	5.30 ug/l	99
95) Naphthalene	21.70	128	234744	4.93 ug/l	100
96) 1,2,3-Trichlorobenzene	22.03	180	167798	5.10 ug/l	99

SG 12/16/10

(#) = qualifier out of range (m) = manual integration
RLV332.D VO01L11.M Mon Dec 13 08:02:45 2010

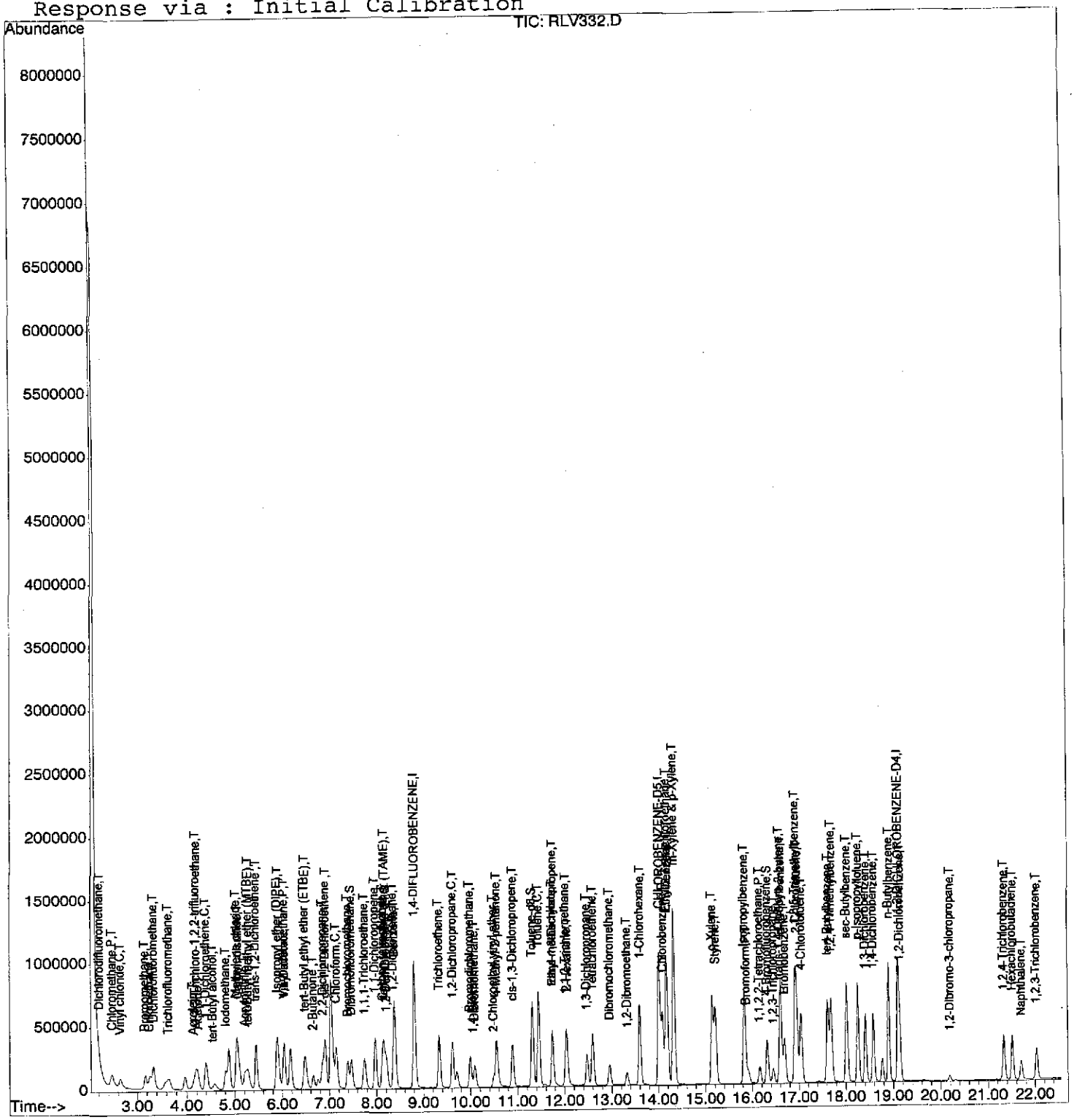
Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV332.D
Acq On : 11 Dec 2010 12:08 pm
Sample : VO01L115 5.0ppb
Misc : 5.0ppb8260/25.0ppbKET-A-TBA/25.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:30 2010

Vial: 6
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2163

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1443192	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1241991	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	452642	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	460724	10.65 ug/l	0.00
Spiked Amount 10.000			Recovery	= 106.50%	
40) 1,2-Dichloroethane-d4	8.21	65	355381	10.51 ug/l	0.00
Spiked Amount 10.000			Recovery	= 105.10%	
55) Toluene-d8	11.32	98	1695591	10.48 ug/l	0.00
Spiked Amount 10.000			Recovery	= 104.80%	
76) 4-Bromofluorobenzene	16.32	95	543202	10.58 ug/l	0.00
Spiked Amount 10.000			Recovery	= 105.80%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	274391	10.87 ug/l	100
4) Chloromethane	2.48	50	527549	10.20 ug/l	100
5) Vinyl chloride	2.66	62	400116	9.49 ug/l	100
6) Bromomethane	3.18	94	340390	10.86 ug/l	100
7) Chloroethane	3.25	64	348067	10.35 ug/l	100
8) Dichlorofluoromethane	3.34	67	868453	10.27 ug/l	100
9) Trichlorofluoromethane	3.64	101	505657	10.54 ug/l	100
11) Acrolein	4.14	56	120023	51.71 ug/l	100
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	241862	10.52 ug/l	100
13) Acetone	4.23	43	288846	50.74 ug/l	100
14) 1,1-Dichloroethene	4.39	61	681342	10.26 ug/l	100
15) tert-Butyl alcohol	4.52	59	102321	48.32 ug/l	100
17) Iodomethane	4.81	142	733115	10.47 ug/l	100
19) Methylene chloride	5.04	49	671766	9.72 ug/l	100
20) Carbon disulfide	5.07	76	1933037	11.21 ug/l	100
21) Acrylonitrile	5.21	53	379155	50.28 ug/l	100
22) tert-Butyl methyl ether (M	5.26	73	679967	10.36 ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	758917	10.19 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	1894497	10.38 ug/l	100
25) Vinyl acetate	6.03	43	703583	10.46 ug/l	100
26) 1,1-Dichloroethane	6.05	63	938354	10.29 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	1130378	10.40 ug/l	100
29) 2-Butanone	6.64	43	530180	49.66 ug/l	100
30) 2,2-Dichloropropane	6.85	77	554062	10.08 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	556671	10.41 ug/l	100
32) Chloroform	7.14	83	801788	10.19 ug/l	100
33) Bromochloromethane	7.38	49	414799	10.50 ug/l	100

(#) = qualifier out of range (m) = manual integration
RLV333.D VO01L11.M Mon Dec 13 08:02:58 2010

SW 12/16/10

2184

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	580589	10.18 ug/l	100
39) tert-Amyl methyl ether (TA	8.16	87	168976	10.48 ug/l	100
42) 1,1-Dichloropropene	7.97	110	240031	10.06 ug/l	100
43) Carbon tetrachloride	8.14	119	477402	10.16 ug/l	100
44) 1,2-Dichloroethane	8.36	62	431785	10.37 ug/l	100
45) Benzene	8.39	78	1976955	10.22 ug/l	100
46) Trichloroethene	9.33	130	537516	10.48 ug/l	100
48) 1,2-Dichloropropane	9.61	63	548511	10.28 ug/l	100
49) 1,4-Dioxane	10.06	88	33555	199.04 ug/l	100
50) Bromodichloromethane	10.00	83	595626	10.43 ug/l	100
51) Dibromomethane	10.09	93	212212	10.39 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	134698	10.19 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	1375425	50.28 ug/l	100
54) cis-1,3-Dichloropropene	10.89	75	751319	10.41 ug/l	100
56) Toluene	11.45	91	2016173	10.21 ug/l	100
57) Ethyl methacrylate	11.73	69	407173	10.57 ug/l	100
58) trans-1,3-Dichloropropene	11.75	75	529203	10.41 ug/l	100
59) 2-Hexanone	12.04	43	858625	50.43 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	284699	10.43 ug/l	100
61) 1,3-Dichloropropane	12.47	76	556602	10.39 ug/l	100
62) Tetrachloroethene	12.60	164	393861	10.21 ug/l	100
63) Dibromochloromethane	12.96	129	355399	10.58 ug/l	100
64) 1,2-Dibromoethane	13.33	107	280052	10.45 ug/l	100
65) 1-Chlorohexane	13.61	91	835253	10.33 ug/l	100
66) Chlorobenzene	14.08	112	1232848	10.43 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	396904	10.42 ug/l	100
68) Ethylbenzene	14.19	91	2282099	10.13 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3377053	20.33 ug/l	100
70) o-Xylene	15.15	91	1698781	10.52 ug/l	100
71) Styrene	15.22	104	1308727	10.75 ug/l	100
73) Isopropylbenzene	15.83	105	2041197	10.27 ug/l	100
74) Bromoform	15.87	173	177072	10.57 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.15	83	327706	10.11 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	77655	9.52 ug/l	100
78) trans-1,4-Dichloro-2-buten	16.58	53	86809	10.38 ug/l	100
79) n-Propylbenzene	16.61	91	2713751	10.28 ug/l	100
80) Bromobenzene	16.70	156	426521	10.26 ug/l	100
81) 1,3,5-Trimethylbenzene	16.92	105	1605954	10.26 ug/l	100
82) 2-Chlorotoluene	16.95	91	1590124	9.90 ug/l	100
83) 4-Chlorotoluene	17.06	91	1465801	10.60 ug/l	100
84) tert-Butylbenzene	17.62	134	363190	10.22 ug/l	100

(#) = qualifier out of range (m) = manual integration

Sw 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 07:29:43 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	1614642	10.45 ug/l	100
86) sec-Butylbenzene	18.02	105	2223954	10.21 ug/l	100
87) p-Isopropyltoluene	18.26	119	1728539	10.39 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	865231	10.31 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	834032	10.34 ug/l	100
90) n-Butylbenzene	18.91	91	1803831	10.35 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	706099	10.36 ug/l	100
92) 1,2-Dibromo-3-chloropropan	20.19	157	41701	10.32 ug/l	100
93) 1,2,4-Trichlorobenzene	21.33	180	422451	10.19 ug/l	100
94) Hexachlorobutadiene	21.53	225	274521	10.37 ug/l	100
95) Naphthalene	21.70	128	474465	9.89 ug/l	100
96) 1,2,3-Trichlorobenzene	22.04	180	331406	9.99 ug/l	100

SU 12/16/10

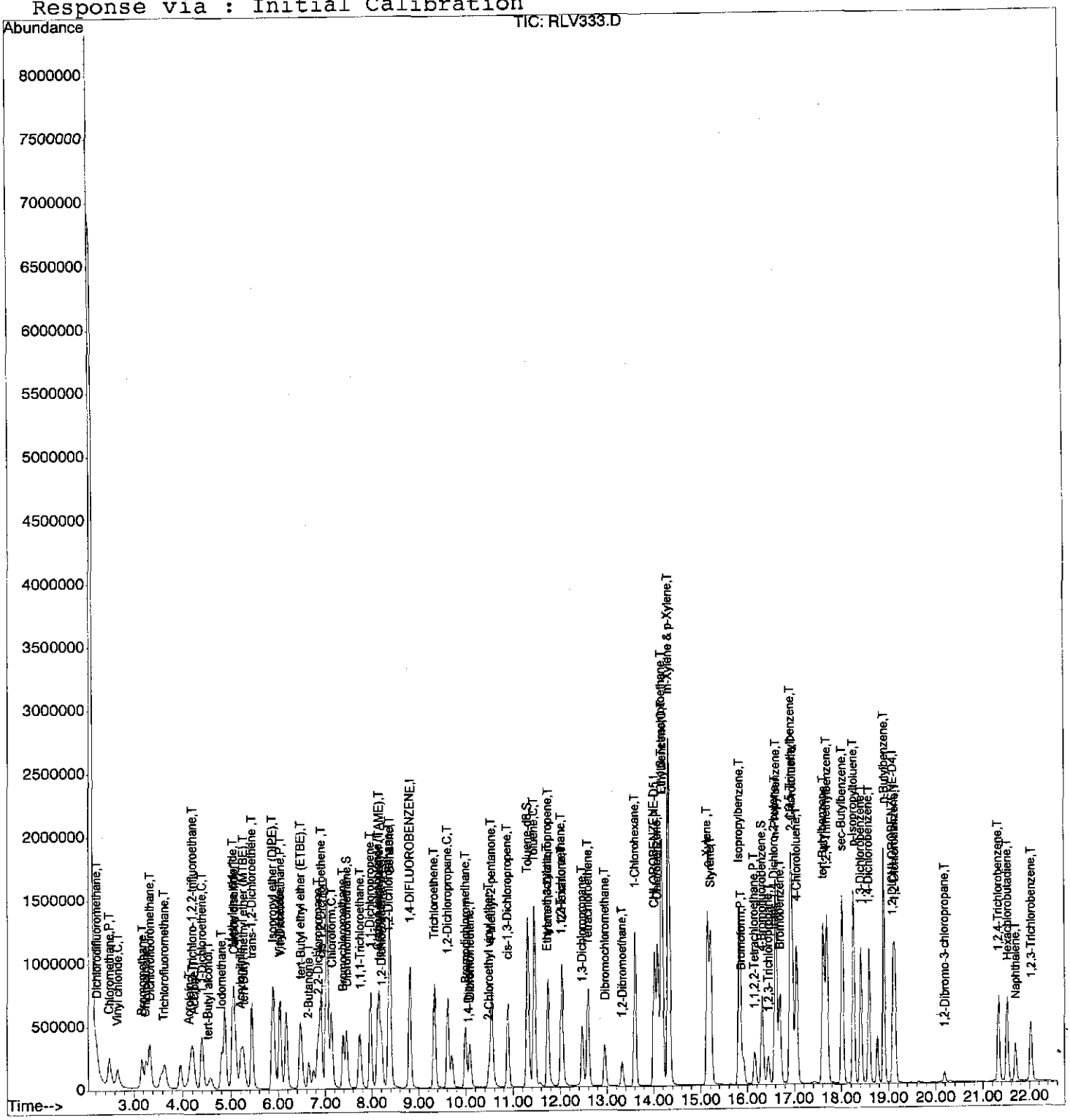
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV333.D
Acq On : 11 Dec 2010 12:40 pm
Sample : VO01L116 10ppb
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 7:32 2010

Vial: 7
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SU 12/16/10

2187

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1462796	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.03	117	1286572	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	460619	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	949996	21.67 ug/l	0.00
Spiked Amount 10.000			Recovery	= 216.70%	
40) 1,2-Dichloroethane-d4	8.23	65	747616	21.81 ug/l	0.02
Spiked Amount 10.000			Recovery	= 218.10%	
55) Toluene-d8	11.32	98	3406958	20.33 ug/l	0.00
Spiked Amount 10.000			Recovery	= 203.30%	
76) 4-Bromofluorobenzene	16.32	95	1097379	21.01 ug/l	0.00
Spiked Amount 10.000			Recovery	= 210.10%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	541111	21.14 ug/l	98
4) Chloromethane	2.48	50	1059040	20.20 ug/l	100
5) Vinyl chloride	2.65	62	664583	15.56 ug/l	100
6) Bromomethane	3.18	94	671640	21.15 ug/l	100
7) Chloroethane	3.25	64	688713	20.20 ug/l	99
8) Dichlorofluoromethane	3.34	67	1698587	19.82 ug/l	100
9) Trichlorofluoromethane	3.64	101	1034571	21.27 ug/l	99
11) Acrolein	4.14	56	236745	100.63 ug/l	92
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	462736	19.86 ug/l	99
13) Acetone	4.23	43	598888	103.78 ug/l	99
14) 1,1-Dichloroethene	4.39	61	1343223	19.95 ug/l	100
15) tert-Butyl alcohol	4.53	59	229627	106.98 ug/l	95
17) Iodomethane	4.82	142	1443462	20.34 ug/l	99
19) Methylene chloride	5.04	49	1312567	18.74 ug/l	99
20) Carbon disulfide	5.07	76	3574104	20.33 ug/l	100
21) Acrylonitrile	5.21	53	788536	103.17 ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	1379545	20.74 ug/l	99
23) trans-1,2-Dichloroethene	5.44	61	1534875	20.34 ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	3774471	20.39 ug/l	100
25) Vinyl acetate	6.05	43	1477337	21.67 ug/l	99
26) 1,1-Dichloroethane	6.05	63	1852890	20.05 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	2272018	20.62 ug/l	100
29) 2-Butanone	6.64	43	1139187	105.28 ug/l	99
30) 2,2-Dichloropropane	6.86	77	1087343	19.52 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	1096009	20.23 ug/l	99
32) Chloroform	7.15	83	1622115	20.34 ug/l	99
33) Bromochloromethane	7.40	49	823064	20.56 ug/l	98

(#) = qualifier out of range (m) = manual integration
RLV334.D VO01L11.M Mon Dec 13 08:03:12 2010

SLL 12/16/10

2188

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	1168510	20.21 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	350332	21.44 ug/l	96
42) 1,1-Dichloropropene	7.97	110	471727	19.08 ug/l	99
43) Carbon tetrachloride	8.14	119	942390	19.37 ug/l	99
44) 1,2-Dichloroethane	8.36	62	872422	20.23 ug/l	99
45) Benzene	8.39	78	3942585	19.68 ug/l	100
46) Trichloroethene	9.34	130	1055661	19.87 ug/l	99
48) 1,2-Dichloropropane	9.63	63	1108950	20.06 ug/l	100
49) 1,4-Dioxane	10.05	88	72019	412.40 ug/l	100
50) Bromodichloromethane	10.00	83	1189788	20.11 ug/l	99
51) Dibromomethane	10.09	93	425061	20.10 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	285271	20.83 ug/l	100
53) 4-Methyl-2-pentanone	10.55	43	2934663	103.56 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	1489774	19.93 ug/l	100
56) Toluene	11.45	91	3986303	19.48 ug/l	100
57) Ethyl methacrylate	11.73	69	815969	20.46 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	1067740	20.27 ug/l	100
59) 2-Hexanone	12.04	43	1827147	103.60 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	571092	20.20 ug/l	99
61) 1,3-Dichloropropane	12.47	76	1123521	20.24 ug/l	100
62) Tetrachloroethene	12.61	164	781300	19.55 ug/l	99
63) Dibromochloromethane	12.96	129	719818	20.68 ug/l	100
64) 1,2-Dibromoethane	13.33	107	565146	20.36 ug/l	99
65) 1-Chlorohexane	13.61	91	1619603	19.33 ug/l	100
66) Chlorobenzene	14.09	112	2466486	20.13 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	795080	20.16 ug/l	98
68) Ethylbenzene	14.19	91	4484327	19.22 ug/l	99
69) m-Xylene & p-Xylene	14.34	91	6547188	38.06 ug/l	100
70) o-Xylene	15.15	91	3276862	19.58 ug/l	100
71) Styrene	15.22	104	2568523	20.37 ug/l	99
73) Isopropylbenzene	15.83	105	3933310	19.44 ug/l	100
74) Bromoform	15.88	173	360471	21.15 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.16	83	654615	19.85 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	152425	18.37 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.59	53	175487	20.61 ug/l	100
79) n-Propylbenzene	16.62	91	5267787	19.62 ug/l	100
80) Bromobenzene	16.70	156	845602	20.00 ug/l	99
81) 1,3,5-Trimethylbenzene	16.93	105	3145604	19.75 ug/l	100
82) 2-Chlorotoluene	16.96	91	3129319	19.14 ug/l	99
83) 4-Chlorotoluene	17.04	91	2869382	20.39 ug/l	100
84) tert-Butylbenzene	17.62	134	706469	19.54 ug/l	98

(#) = qualifier out of range (m) = manual integration

SW 12/16/10

2189

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	3104159	19.74 ug/l	100
86) sec-Butylbenzene	18.02	105	4284542	19.32 ug/l	100
87) p-Isopropyltoluene	18.26	119	3304138	19.52 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	1707758	19.99 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	1647955	20.08 ug/l	99
90) n-Butylbenzene	18.91	91	3491997	19.69 ug/l	100
91) 1,2-Dichlorobenzene	19.15	146	1377853	19.86 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	83856	20.39 ug/l	99
93) 1,2,4-Trichlorobenzene	21.34	180	846651	20.07 ug/l	100
94) Hexachlorobutadiene	21.51	225	525411	19.50 ug/l	99
95) Naphthalene	21.71	128	1018113	20.86 ug/l	99
96) 1,2,3-Trichlorobenzene	22.05	180	660831	19.58 ug/l	99

SW 12/16/10

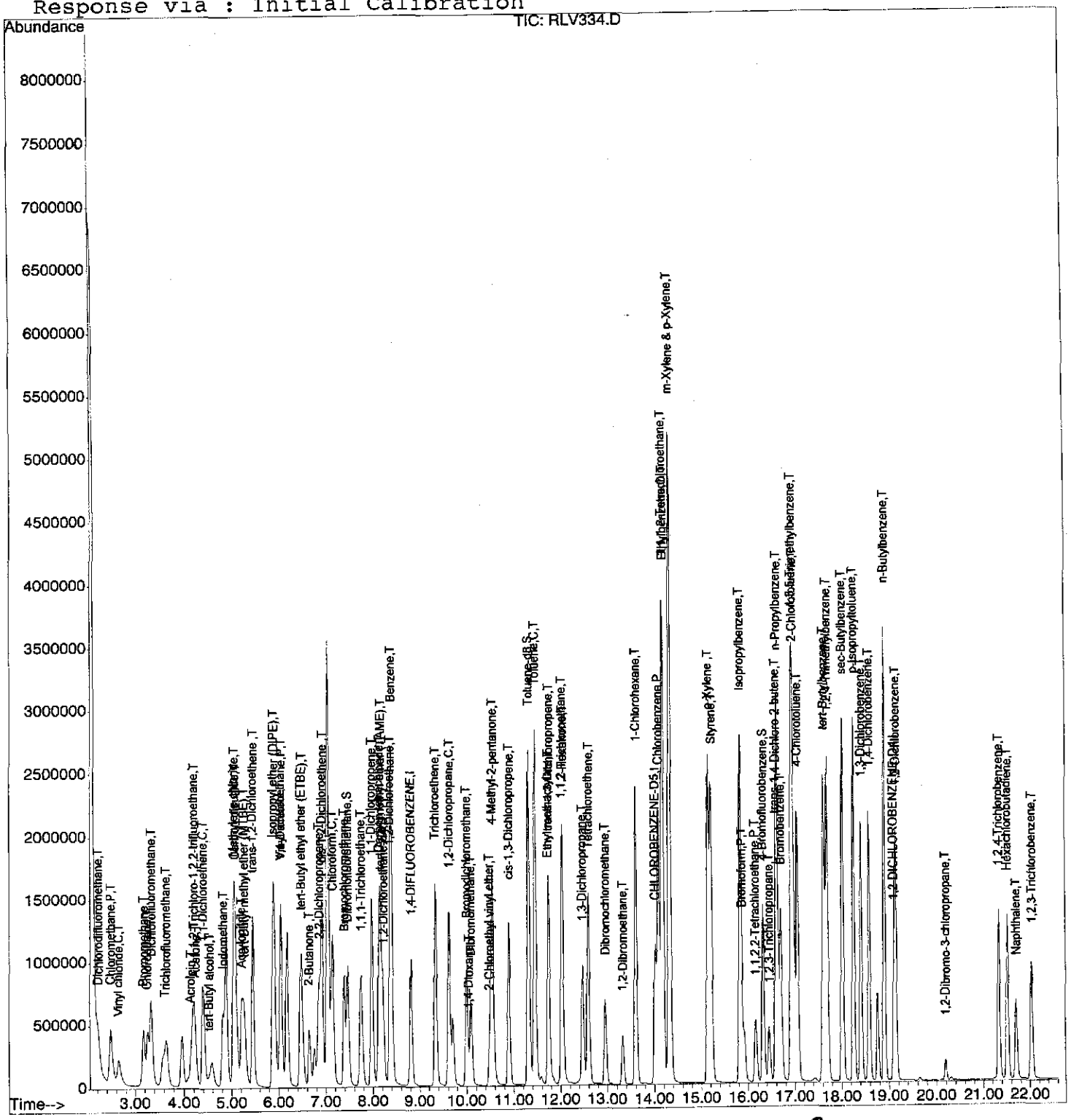
(#) = qualifier out of range (m) = manual integration
RLV334.D VO01L11.M Mon Dec 13 08:03:13 2010

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV334.D
Acq On : 11 Dec 2010 1:12 pm
Sample : VO01L117 20ppb
Misc : 20.0ppb8260/100.0ppbKET-A-TBA/100.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 8
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Su 12/16/10

2191

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1424069	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1222352	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	437491	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	1388356	32.54 ug/l	0.00
Spiked Amount 10.000			Recovery	= 325.40%	
40) 1,2-Dichloroethane-d4	8.22	65	1077577	32.29 ug/l	0.02
Spiked Amount 10.000			Recovery	= 322.90%	
55) Toluene-d8	11.32	98	4952292	31.10 ug/l	0.00
Spiked Amount 10.000			Recovery	= 311.00%	
76) 4-Bromofluorobenzene	16.32	95	1599381	32.24 ug/l	0.00
Spiked Amount 10.000			Recovery	= 322.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	717981	28.82 ug/l	99
4) Chloromethane	2.48	50	1410323	27.63 ug/l	100
5) Vinyl chloride	2.66	62	840799	20.22 ug/l	100
6) Bromomethane	3.18	94	910549	29.45 ug/l	99
7) Chloroethane	3.25	64	930741	28.04 ug/l	98
8) Dichlorofluoromethane	3.34	67	2531336	30.35 ug/l	99
9) Trichlorofluoromethane	3.64	101	1421587	30.02 ug/l	100
11) Acrolein	4.14	56	347185	151.58 ug/l	99
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	701469	30.93 ug/l	99
13) Acetone	4.23	43	887651	158.01 ug/l	100
14) 1,1-Dichloroethene	4.41	61	2010933	30.68 ug/l	99
15) tert-Butyl alcohol	4.53	59	350076	167.53 ug/l	94
17) Iodomethane	4.82	142	2165147	31.34 ug/l	99
19) Methylene chloride	5.04	49	1934673	28.37 ug/l	99
20) Carbon disulfide	5.07	76	5243400	30.56 ug/l	100
21) Acrylonitrile	5.22	53	1189075	159.81 ug/l	100
22) tert-Butyl methyl ether (M	5.27	73	2052600	31.70 ug/l	98
23) trans-1,2-Dichloroethene	5.46	61	2288025	31.15 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	5713494	31.71 ug/l	100
25) Vinyl acetate	6.05	43	2075815	31.27 ug/l	98
26) 1,1-Dichloroethane	6.05	63	2806025	31.19 ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	3334901	31.09 ug/l	100
29) 2-Butanone	6.64	43	1670490	158.58 ug/l	99
30) 2,2-Dichloropropane	6.86	77	1612668	29.74 ug/l	100
31) cis-1,2-Dichloroethene	6.92	96	1657120	31.41 ug/l	100
32) Chloroform	7.14	83	2429202	31.29 ug/l	99
33) Bromochloromethane	7.40	49	1247909	32.03 ug/l	98

(#) = qualifier out of range (m) = manual integration

Sw 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	1752312	31.13 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	513214	32.27 ug/l	95
42) 1,1-Dichloropropene	7.99	110	705634	30.05 ug/l	99
43) Carbon tetrachloride	8.14	119	1421493	30.75 ug/l	100
44) 1,2-Dichloroethane	8.36	62	1293897	31.58 ug/l	100
45) Benzene	8.39	78	5830498	30.64 ug/l	100
46) Trichloroethene	9.35	130	1582183	31.35 ug/l	99
48) 1,2-Dichloropropane	9.63	63	1661211	31.63 ug/l	100
49) 1,4-Dioxane	10.04	88	115766	697.74 ug/l	95
50) Bromodichloromethane	10.00	83	1804643	32.11 ug/l	99
51) Dibromomethane	10.09	93	643233	32.01 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	419912	32.27 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	4309150	160.06 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	2263367	31.86 ug/l	100
56) Toluene	11.46	91	5901061	30.35 ug/l	100
57) Ethyl methacrylate	11.73	69	1218438	32.15 ug/l	100
58) trans-1,3-Dichloropropene	11.76	75	1617868	32.32 ug/l	100
59) 2-Hexanone	12.04	43	2720427	162.35 ug/l	100
60) 1,1,2-Trichloroethane	12.04	97	851518	31.71 ug/l	99
61) 1,3-Dichloropropane	12.49	76	1678523	31.83 ug/l	99
62) Tetrachloroethene	12.60	164	1155166	30.42 ug/l	99
63) Dibromochloromethane	12.96	129	1087190	32.87 ug/l	100
64) 1,2-Dibromoethane	13.33	107	854712	32.41 ug/l	99
65) 1-Chlorohexane	13.61	91	2394787	30.09 ug/l	99
66) Chlorobenzene	14.10	112	3645529	31.32 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	1188415	31.72 ug/l	99
68) Ethylbenzene	14.19	91	6701125	30.24 ug/l	100
69) m-Xylene & p-Xylene	14.34	91	9725972	59.50 ug/l	100
70) o-Xylene	15.15	91	4969148	31.26 ug/l	100
71) Styrene	15.22	104	3857812	32.20 ug/l	100
73) Isopropylbenzene	15.84	105	5928559	30.86 ug/l	100
74) Bromoform	15.87	173	551838	34.10 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	994024	31.73 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	233326	29.60 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.58	53	265826	32.88 ug/l	98
79) n-Propylbenzene	16.61	91	7873943	30.87 ug/l	100
80) Bromobenzene	16.70	156	1294569	32.23 ug/l	98
81) 1,3,5-Trimethylbenzene	16.92	105	4698262	31.05 ug/l	100
82) 2-Chlorotoluene	16.97	91	4961929	31.96 ug/l	96
83) 4-Chlorotoluene	17.06	91	4057482	30.35 ug/l	95
84) tert-Butylbenzene	17.62	134	1061797	30.92 ug/l	99

(#) = qualifier out of range (m) = manual integration
RLV335.D VO01L11.M Mon Dec 13 08:03:26 2010

SU 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	4666365	31.25 ug/l	100
86) sec-Butylbenzene	18.02	105	6393652	30.35 ug/l	100
87) p-Isopropyltoluene	18.26	119	4938331	30.72 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	2555113	31.50 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	2442056	31.33 ug/l	99
90) n-Butylbenzene	18.91	91	5154055	30.59 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	2062235	31.30 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.19	157	125607	32.16 ug/l	99
93) 1,2,4-Trichlorobenzene	21.33	180	1234711	30.82 ug/l	99
94) Hexachlorobutadiene	21.53	225	779122	30.44 ug/l	99
95) Naphthalene	21.70	128	1545295	33.33 ug/l	99
96) 1,2,3-Trichlorobenzene	22.04	180	966141	30.15 ug/l	99

(#) = qualifier out of range (m) = manual integration

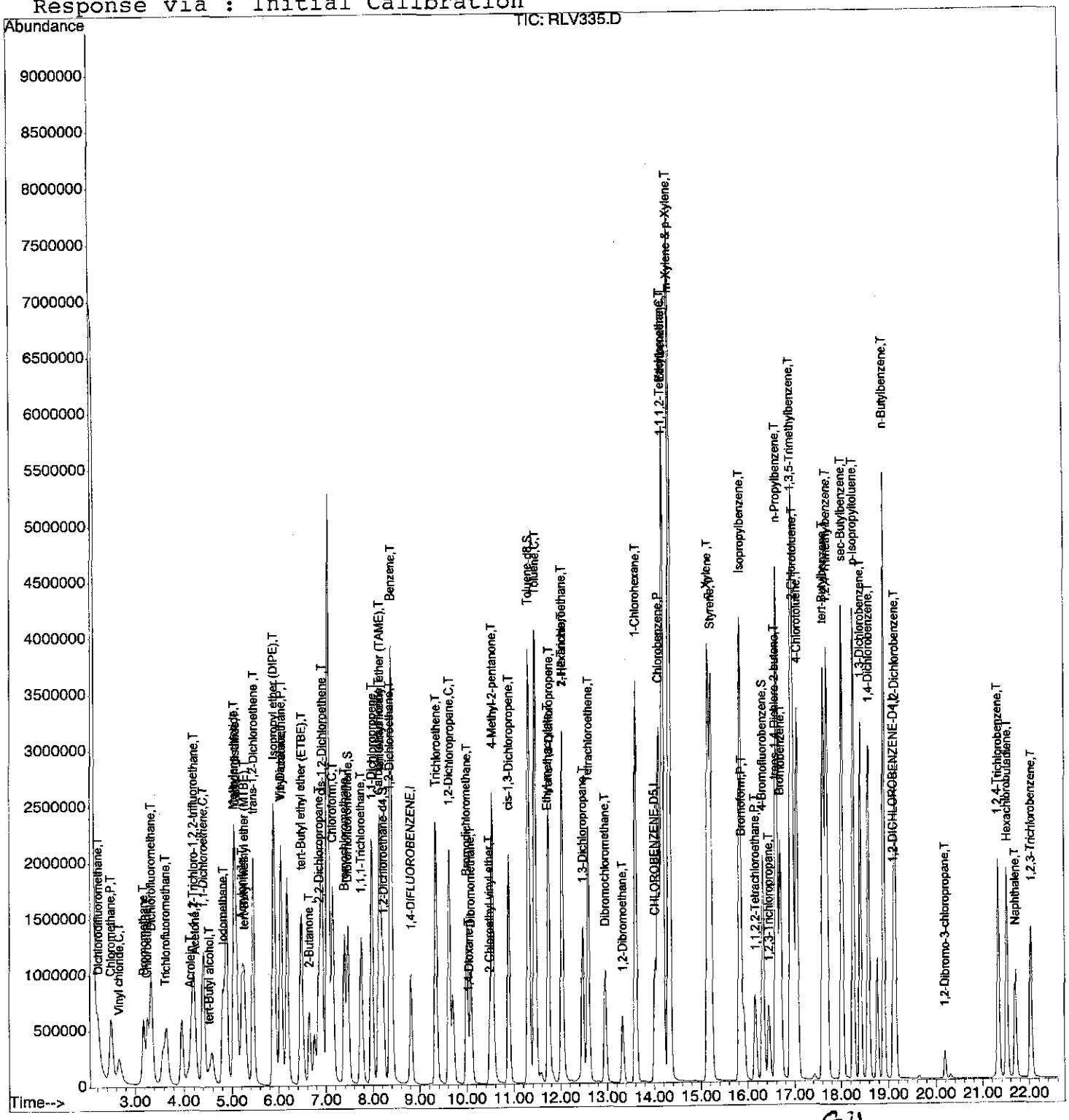
SU 12/16/10

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV335.D
Acq On : 11 Dec 2010 1:47 pm
Sample : VO01L118 30ppb
Misc : 30.0ppb8260/150.0ppbKET-A-TBA/150.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 9
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SW 12/16/10

2195

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1532426	10.00	ug/l	0.00
41) CHLOROBENZENE-D5	14.02	117	1308630	10.00	ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.11	152	460906	10.00	ug/l	0.02
System Monitoring Compounds						
34) Dibromofluoromethane	7.47	111	2241281	48.81	ug/l	0.00
Spiked Amount 10.000			Recovery	=	488.10%	
40) 1,2-Dichloroethane-d4	8.22	65	1750269	48.74	ug/l	0.02
Spiked Amount 10.000			Recovery	=	487.40%	
55) Toluene-d8	11.32	98	8061704	47.29	ug/l	0.00
Spiked Amount 10.000			Recovery	=	472.90%	
76) 4-Bromofluorobenzene	16.32	95	2572198	49.21	ug/l	0.00
Spiked Amount 10.000			Recovery	=	492.10%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.22	85	1216125	45.36	ug/l	99
4) Chloromethane	2.48	50	2386879	43.46	ug/l	99
5) Vinyl chloride	2.65	62	1116943	24.96	ug/l	99
6) Bromomethane	3.18	94	1538057	46.22	ug/l	100
7) Chloroethane	3.25	64	1596244	44.69	ug/l	99
8) Dichlorofluoromethane	3.34	67	4241606	47.25	ug/l	100
9) Trichlorofluoromethane	3.64	101	2364104	46.40	ug/l	100
11) Acrolein	4.14	56	585757	237.66	ug/l	99
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	1128096	46.22	ug/l	98
13) Acetone	4.23	43	1420791	235.03	ug/l	99
14) 1,1-Dichloroethene	4.39	61	3326404	47.16	ug/l	100
15) tert-Butyl alcohol	4.53	59	554676	246.68	ug/l	98
17) Iodomethane	4.82	142	3620835	48.71	ug/l	99
19) Methylene chloride	5.04	49	3203866	43.65	ug/l	99
20) Carbon disulfide	5.07	76	8890220	48.07	ug/l	100
21) Acrylonitrile	5.22	53	1929444	240.98	ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	3362288	48.25	ug/l	98
23) trans-1,2-Dichloroethene	5.44	61	3805114	48.14	ug/l	99
24) Isopropyl ether (DIPE)	5.89	45	9265441	47.79	ug/l	100
25) Vinyl acetate	6.05	43	3347374	46.86	ug/l	98
26) 1,1-Dichloroethane	6.05	63	4666587	48.20	ug/l	100
28) tert-Butyl ethyl ether (ET	6.48	59	5434013	47.07	ug/l	100
29) 2-Butanone	6.64	43	2753036	242.87	ug/l	99
30) 2,2-Dichloropropane	6.86	77	2550691	43.72	ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	2761969	48.66	ug/l	99
32) Chloroform	7.14	83	4072011	48.74	ug/l	99
33) Bromochloromethane	7.40	49	2039891	48.65	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	2866917	47.33 ug/l	99
39) tert-Amyl methyl ether (TA	8.15	87	809886	47.32 ug/l	97
42) 1,1-Dichloropropene	7.99	110	1154182	45.91 ug/l	98
43) Carbon tetrachloride	8.14	119	2351925	47.52 ug/l	100
44) 1,2-Dichloroethane	8.36	62	2152677	49.07 ug/l	100
45) Benzene	8.39	78	9786654	48.04 ug/l	99
46) Trichloroethene	9.35	130	2663565	49.29 ug/l	100
48) 1,2-Dichloropropane	9.63	63	2707514	48.15 ug/l	99
49) 1,4-Dioxane	10.04	88	184306	1037.60 ug/l	97
50) Bromodichloromethane	10.00	83	2978276	49.50 ug/l	99
51) Dibromomethane	10.09	93	1058899	49.22 ug/l	99
52) 2-Chloroethyl vinyl ether	10.49	63	692195	49.69 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	7033833	244.04 ug/l	100
54) cis-1,3-Dichloropropene	10.90	75	3712675	48.82 ug/l	99
56) Toluene	11.45	91	9871566	47.43 ug/l	100
57) Ethyl methacrylate	11.73	69	1974448	48.66 ug/l	100
58) trans-1,3-Dichloropropene	11.76	75	2636472	49.20 ug/l	99
59) 2-Hexanone	12.04	43	4308003	240.15 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	1365684	47.50 ug/l	99
61) 1,3-Dichloropropane	12.49	76	2720250	48.18 ug/l	99
62) Tetrachloroethene	12.60	164	1938810	47.68 ug/l	99
63) Dibromochloromethane	12.96	129	1778063	50.21 ug/l	100
64) 1,2-Dibromoethane	13.33	107	1394326	49.38 ug/l	100
65) 1-Chlorohexane	13.61	91	3904315	45.82 ug/l	99
66) Chlorobenzene	14.10	112	5958899	47.82 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.17	131	1912573	47.68 ug/l	98
68) Ethylbenzene	14.19	91	10704775	45.11 ug/l	100
69) m-Xylene & p-Xylene	14.34	91	15903531	90.88 ug/l	99
70) o-Xylene	15.15	91	8040449	47.24 ug/l	99
71) Styrene	15.22	104	6344269	49.46 ug/l	99
73) Isopropylbenzene	15.84	105	9454756	46.71 ug/l	100
74) Bromoform	15.87	173	883311	51.80 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	1577742	47.80 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	364028	43.84 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.58	53	414467	48.66 ug/l	97
79) n-Propylbenzene	16.61	91	12761471	47.49 ug/l	100
80) Bromobenzene	16.70	156	2100315	49.64 ug/l	98
81) 1,3,5-Trimethylbenzene	16.92	105	7516042	47.15 ug/l	100
82) 2-Chlorotoluene	16.95	91	8029002	49.08 ug/l	96
83) 4-Chlorotoluene	17.06	91	6542406	46.46 ug/l	95
84) tert-Butylbenzene	17.62	134	1688221	46.66 ug/l	100

(#) = qualifier out of range (m) = manual integration

BU 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.69	105	7590366	48.24 ug/l	100
86) sec-Butylbenzene	18.02	105	10348947	46.64 ug/l	100
87) p-Isopropyltoluene	18.26	119	8005119	47.27 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	4172517	48.82 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	4020250	48.96 ug/l	99
90) n-Butylbenzene	18.91	91	8196362	46.18 ug/l	100
91) 1,2-Dichlorobenzene	19.14	146	3344740	48.19 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.19	157	199487	48.49 ug/l	98
93) 1,2,4-Trichlorobenzene	21.33	180	2030919	48.11 ug/l	99
94) Hexachlorobutadiene	21.51	225	1263439	46.86 ug/l	99
95) Naphthalene	21.70	128	2582709	52.87 ug/l	100
96) 1,2,3-Trichlorobenzene	22.04	180	1590317	47.10 ug/l	100

5 ug 12/16/10

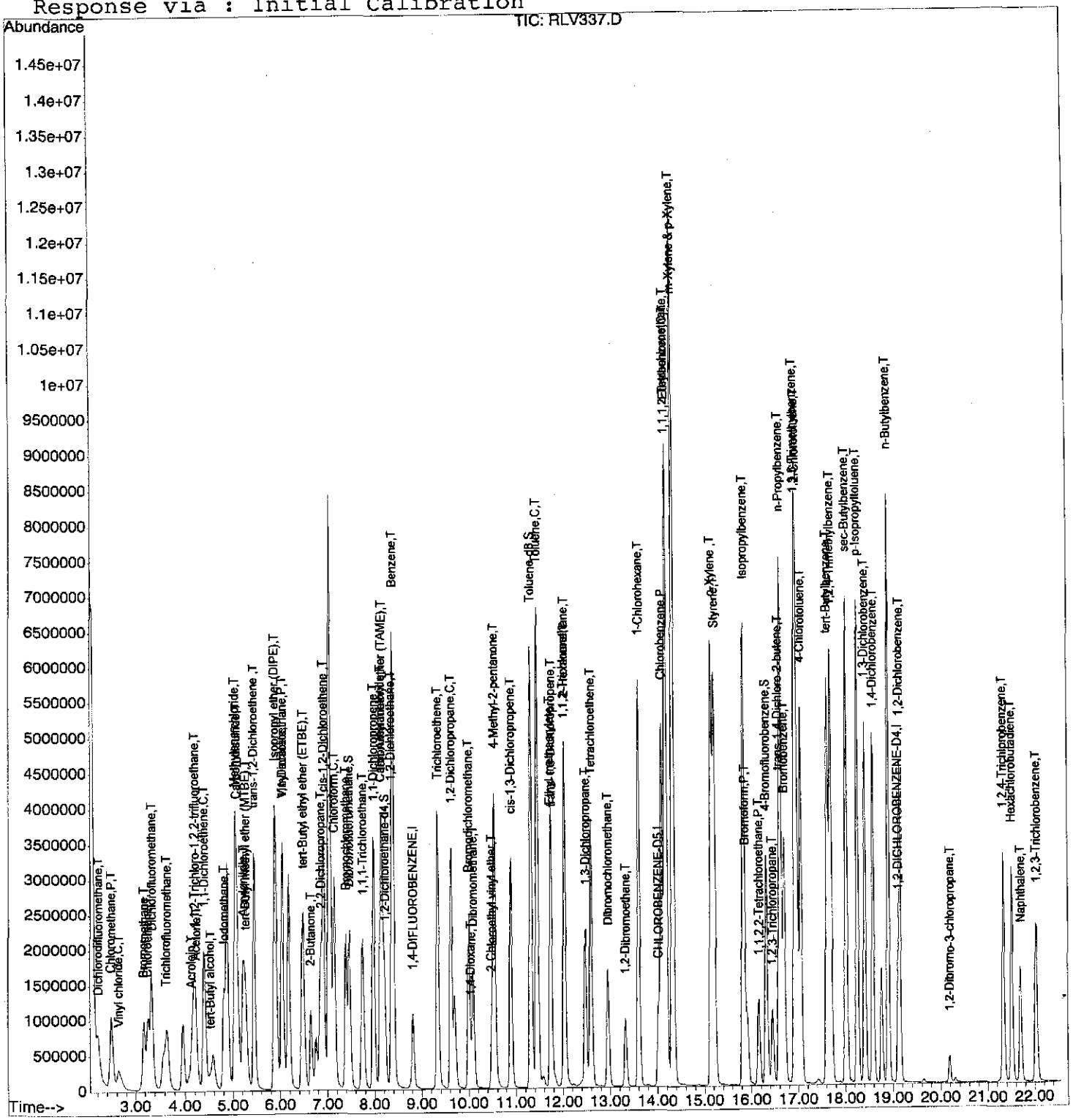
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV337.D
Acq On : 11 Dec 2010 2:51 pm
Sample : VO01L1110 50ppb
Misc : 50.0ppb8260/250.0ppbKET-A-TBA/250.0ppbAC
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 11
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



3W 12/16/10

2199

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.80	114	1670619	10.00 ug/l	-0.01
41) CHLOROBENZENE-D5	14.03	117	1448218	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.12	152	499066	10.00 ug/l	0.02
System Monitoring Compounds					
34) Dibromofluoromethane	7.46	111	4427349	88.45 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 884.50%	
40) 1,2-Dichloroethane-d4	8.21	65	3479407	88.88 ug/l	0.00
Spiked Amount 10.000			Recovery	= 888.80%	
55) Toluene-d8	11.32	98	15291063	81.05 ug/l	0.00
Spiked Amount 10.000			Recovery	= 810.50%	
76) 4-Bromofluorobenzene	16.32	95	4896974	86.53 ug/l	0.00
Spiked Amount 10.000			Recovery	= 865.30%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.20	85	2371168	81.13 ug/l	100
4) Chloromethane	2.48	50	4407254	73.61 ug/l	99
5) Vinyl chloride	2.62	62	1818156	37.27 ug/l	100
6) Bromomethane	3.17	94	2839477	78.28 ug/l	100
7) Chloroethane	3.24	64	2827929	72.63 ug/l	98
8) Dichlorofluoromethane	3.33	67	7666261	78.34 ug/l	100
9) Trichlorofluoromethane	3.62	101	4398771	79.19 ug/l	100
11) Acrolein	4.13	56	1160449	431.89 ug/l	90
12) 1,1,2-Trichloro-1,2,2-trif	4.17	151	2108812	79.26 ug/l	98
13) Acetone	4.22	43	2814772	427.11 ug/l	99
14) 1,1-Dichloroethene	4.39	61	6115332	79.52 ug/l	99
15) tert-Butyl alcohol	4.53	59	1117106	455.71 ug/l	97
17) Iodomethane	4.81	142	6823670	84.20 ug/l	99
19) Methylene chloride	5.03	49	5982874	74.78 ug/l	98
20) Carbon disulfide	5.07	76	16730807	82.87 ug/l	100
21) Acrylonitrile	5.21	53	3862408	442.50 ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	6448827	84.90 ug/l	98
23) trans-1,2-Dichloroethene	5.43	61	7027563	81.55 ug/l	99
24) Isopropyl ether (DIPE)	5.87	45	17785222	84.14 ug/l	100
25) Vinyl acetate	6.04	43	6358794	81.65 ug/l	98
26) 1,1-Dichloroethane	6.04	63	8654285	82.00 ug/l	100
28) tert-Butyl ethyl ether (ET	6.46	59	10372425	82.42 ug/l	100
29) 2-Butanone	6.64	43	5511883	446.03 ug/l	99
30) 2,2-Dichloropropane	6.85	77	4648772	73.09 ug/l	99
31) cis-1,2-Dichloroethene	6.91	96	5142106	83.09 ug/l	99
32) Chloroform	7.15	83	7730108	84.88 ug/l	99
33) Bromochloromethane	7.38	49	3868980	84.64 ug/l	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.74	97	5470501	82.84 ug/l	98
39) tert-Amyl methyl ether (TA	8.15	87	1510131	80.94 ug/l	96
42) 1,1-Dichloropropene	7.97	110	2170534	78.01 ug/l	98
43) Carbon tetrachloride	8.12	119	4483467	81.85 ug/l	100
44) 1,2-Dichloroethane	8.36	62	4074210	83.93 ug/l	100
45) Benzene	8.39	78	17981775	79.75 ug/l	99
46) Trichloroethene	9.34	130	4931504	82.47 ug/l	99
48) 1,2-Dichloropropane	9.62	63	5154180	82.82 ug/l	97
49) 1,4-Dioxane	10.03	88	352724	1794.35 ug/l	95
50) Bromodichloromethane	10.00	83	5690042	85.46 ug/l	99
51) Dibromomethane	10.09	93	2040033	85.68 ug/l	100
52) 2-Chloroethyl vinyl ether	10.49	63	1409733	91.44 ug/l	100
53) 4-Methyl-2-pentanone	10.53	43	13846992	434.12 ug/l	100
54) cis-1,3-Dichloropropene	10.89	75	7117960	84.58 ug/l	99
56) Toluene	11.45	91	18048155	78.35 ug/l	100
57) Ethyl methacrylate	11.73	69	3795974	84.54 ug/l	99
58) trans-1,3-Dichloropropene	11.75	75	5013769	84.54 ug/l	99
59) 2-Hexanone	12.04	43	8493902	427.85 ug/l	99
60) 1,1,2-Trichloroethane	12.03	97	2625743	82.53 ug/l	99
61) 1,3-Dichloropropane	12.47	76	5227661	83.67 ug/l	99
62) Tetrachloroethene	12.61	164	3551946	78.94 ug/l	100
63) Dibromochloromethane	12.96	129	3421748	87.32 ug/l	99
64) 1,2-Dibromoethane	13.33	107	2677463	85.68 ug/l	99
65) 1-Chlorohexane	13.61	91	7117737	75.48 ug/l	99
66) Chlorobenzene	14.10	112	11206238	81.27 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.17	131	3569616	80.41 ug/l	97
68) Ethylbenzene	14.19	91	19347253	73.68 ug/l	99
69) m-Xylene & p-Xylene	14.34	91	25946403	133.98 ug/l	99
70) o-Xylene	15.15	91	14882228	79.01 ug/l	99
71) Styrene	15.22	104	11837047	83.39 ug/l	99
73) Isopropylbenzene	15.85	105	16877882	77.01 ug/l	100
74) Bromoform	15.88	173	1686738	91.36 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.17	83	2977416	83.31 ug/l	99
77) 1,2,3-Trichloropropane	16.45	110	693414	77.12 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.59	53	768090	83.28 ug/l	94
79) n-Propylbenzene	16.61	91	22370308	76.89 ug/l	100
80) Bromobenzene	16.70	156	3935026	85.89 ug/l	97
81) 1,3,5-Trimethylbenzene	16.93	105	13192328	76.44 ug/l	100
82) 2-Chlorotoluene	16.97	91	14093878	79.57 ug/l	96
83) 4-Chlorotoluene	17.06	91	11920766	78.18 ug/l	94
84) tert-Butylbenzene	17.62	134	3066699	78.28 ug/l	100

(#) = qualifier out of range (m) = manual integration

12/16/10

2201

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 06:58:20 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	13608985	79.88 ug/l	100
86) sec-Butylbenzene	18.02	105	18509882	77.04 ug/l	100
87) p-Isopropyltoluene	18.26	119	14186806	77.37 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	7682528	83.02 ug/l	100
89) 1,4-Dichlorobenzene	18.60	146	7353516	82.71 ug/l	99
90) n-Butylbenzene	18.91	91	14503886	75.47 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	6242907	83.07 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	404243	90.74 ug/l	97
93) 1,2,4-Trichlorobenzene	21.33	180	3897516	85.27 ug/l	99
94) Hexachlorobutadiene	21.51	225	2387488	81.78 ug/l	99
95) Naphthalene	21.70	128	5237601	99.03 ug/l	100
96) 1,2,3-Trichlorobenzene	22.05	180	3107836	85.01 ug/l	99

SC 12/16/10

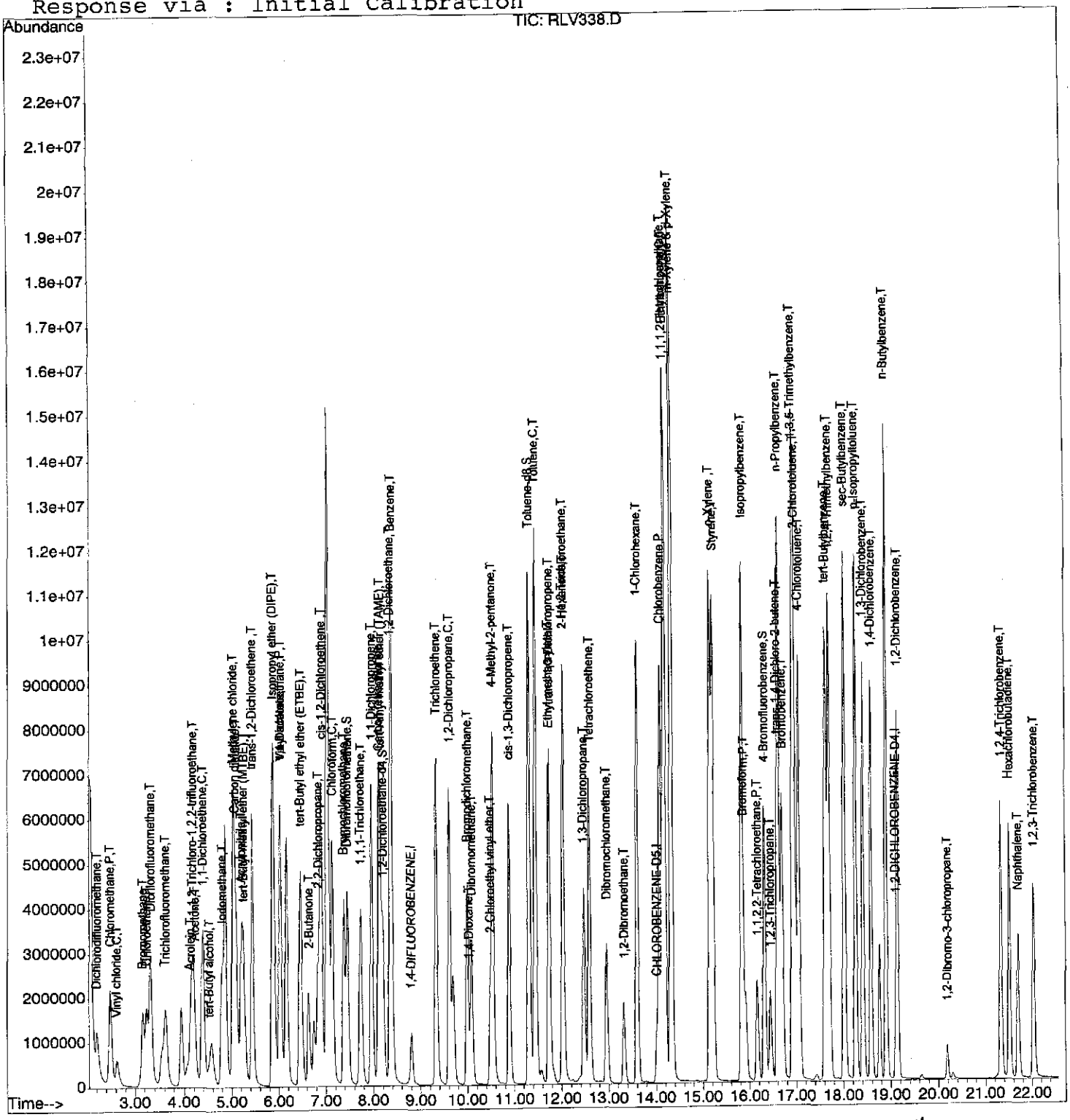
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV338.D
Acq On : 11 Dec 2010 3:24 pm
Sample : VO01L1111 100ppb
Misc : 100.0ppb8260/500.0ppbKET-A-TBA/500.0ppbA
MS Integration Params: 524C.P
Quant Time: Dec 13 7:31 2010

Vial: 12
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



SU 12/16/10

2203

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBB355
Instrument ID: T003
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/16/11
BFB Injection Time : 15:06
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.55
75	30.0 - 60.0% of mass 95	55.10
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.34
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	64.87
175	5.0 - 9.0% of mass 174	5.08(7.8)1
176	95.0 - 101.0% of mass 174	61.82(95.3)1
177	5.0 - 9.0% of mass 176	3.96(6.4)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD0.3	V003B161	RBB356	02/16/11	15:43
2	VSTD0.5	V003B162	RBB357	02/16/11	16:18
3	VSTD01	V003B163	RBB358	02/16/11	16:54
4	VSTD02	V003B164	RBB359	02/16/11	17:32
5	VSTD05	V003B165	RBB360	02/16/11	18:08
6	VSTD010	V003B166	RBB361	02/16/11	18:45
7	VSTD020	V003B167	RBB362	02/16/11	19:23
8	VSTD030	V003B168	RBB363	02/16/11	20:00
9	VSTD040	V003B169	RBB364	02/16/11	20:38
10	VSTD050	V003B1610	RBB365	02/16/11	21:15
11	VSTD100	V003B1611	RBB366	02/16/11	21:52
12	VSTD010	IV003B161	RBB369	02/16/11	23:44

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :T003
Beginning DateTime :02/16/11 15:43
Spike Units :PPB
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/16/11 21:52
HPChem Method :V003B16

M	IDX	Parameters	.3 15:43 RBB356	.5 16:18 RBB357	1 16:54 RBB358	2 17:32 RBB359	5 18:08 RBB360	10 18:45 RBB361	20 19:23 RBB362	30 20:00 RBB363	40 20:38 RBB364	50 21:15 RBB365	100 21:52 RBB366	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	1	0	13.4325
	2	Dichlorodifluoromethane	0.353	0.395	0.413	0.427	0.419	0.470	0.442	0.411	0.456	0.466	0.416	0.424	7.98	3.5871
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	0.356	0.386	0.390	0.428	0.469	0.462	0.436	0.478	0.491	0.440	0.434	10.18	4.0811
	5	Vinyl chloride	0.328	0.352	0.341	0.369	0.371	0.413	0.401	0.379	0.430	0.442	0.393	0.383	9.42	4.3411
	6	Bromomethane	0.238	0.216	0.263	0.244	0.284	0.308	0.300	0.291	0.321	0.337	0.305	0.283	13.37	5.2860
	7	Chloroethane	0.121	0.140	0.158	0.154	0.173	0.189	0.176	0.171	0.193	0.195	0.172	0.168	13.61	5.4552
	8	Dichlorofluoromethane	------	0.518	0.556	0.641	0.667	0.674	0.697	0.738	0.810	0.824	0.772	0.690	14.68	5.5359
	9	Trichlorofluoromethane	0.388	0.450	0.496	0.514	0.533	0.598	0.576	0.548	0.604	0.618	0.560	0.535	13.07	6.0048
5	10	Acrolein	------	------	------	0.008	0.008	0.007	0.008	0.009	0.010	0.011	0.010	0.009	14.42	6.8843
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	0.209	0.212	0.212	0.219	0.218	0.211	0.213	0.216	0.236	0.235	0.209	0.217	4.44	6.9415
5	12	Acetone	------	0.049	0.041	0.039	0.040	0.036	0.037	0.040	0.044	0.047	0.043	0.042	9.70	7.0086
	13	1,1-Dichloroethene	0.620	0.591	0.644	0.647	0.643	0.635	0.612	0.642	0.682	0.677	0.627	0.638	4.13	7.3382
5	14	tert-Butyl alcohol	------	------	0.010	0.011	0.010	0.010	0.011	0.012	0.014	0.014	0.013	0.012	14.23	7.4546
10	15	Acetonitrile	------	------	------	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	14.88	7.6065
	16	Methyl acetate	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	0.584	0.553	0.595	0.576	0.620	0.599	0.608	0.628	0.690	0.696	0.619	0.615	7.16	8.0516
	18	Methylene chloride	0.469	0.428	0.439	0.423	0.429	0.407	0.409	0.420	0.466	0.477	0.429	0.436	5.52	8.4252
	19	Carbon disulfide	0.948	0.955	1.030	1.061	1.136	0.999	1.093	1.178	1.293	1.293	1.179	1.106	11.02	8.5024
5	20	Acrylonitrile	0.027	0.026	0.028	0.033	0.033	0.033	0.033	0.035	0.039	0.040	0.038	0.033	14.37	8.6621
	21	tert-Butyl methyl ether (MTBE)	0.419	0.408	0.419	0.465	0.452	0.443	0.455	0.470	0.538	0.545	0.512	0.466	10.15	8.7054
	22	trans-1,2-Dichloroethene	0.529	0.551	0.585	0.617	0.596	0.603	0.600	0.621	0.678	0.684	0.598	0.606	7.62	9.0546
	23	Isopropyl ether (DIPE)	1.001	0.994	1.023	1.136	1.065	1.088	1.097	1.139	1.267	1.255	1.162	1.111	8.30	9.6625
	24	Vinyl acetate	------	------	0.292	0.307	0.306	0.342	0.334	0.318	0.355	0.367	0.323	0.327	7.48	9.9083
	25	1,1-Dichloroethane	0.585	0.624	0.697	0.702	0.682	0.681	0.684	0.720	0.776	0.775	0.697	0.693	8.06	9.9427
5	26	2-Butanol	------	------	0.007	0.007	0.008	0.007	0.008	0.009	------	------	------	0.008	11.58	10.3494
	27	tert-Butyl ethyl ether (ETBE)	0.665	0.680	0.697	0.786	0.755	0.736	0.756	0.799	0.894	0.912	0.853	0.776	10.75	10.4923
5	28	2-Butanone	0.067	0.063	0.056	0.060	0.060	0.061	0.059	0.063	0.069	0.072	0.068	0.063	7.90	10.7535
	29	2,2-Dichloropropane	0.356	0.352	0.373	0.370	0.384	0.371	0.356	0.360	0.375	0.376	0.298	0.361	6.44	11.0622
	30	cis-1,2-Dichloroethene	0.310	0.352	0.378	0.391	0.396	0.380	0.388	0.414	0.439	0.438	0.402	0.390	9.43	11.1583
	31	Chloroform	0.747	0.767	0.818	0.836	0.834	0.803	0.814	0.841	0.898	0.931	0.832	0.829	6.25	11.4575
	32	Bromochloromethane	0.278	0.266	0.278	0.314	0.310	0.288	0.298	0.314	0.337	0.349	0.316	0.304	8.43	11.7823
	33	Tetrahydrofuran	------	0.038	0.041	0.042	0.033	0.032	0.031	0.033	0.038	0.038	0.037	0.036	10.17	11.8272
	34	Dibromofluoromethane	0.376	0.371	0.407	0.425	0.450	0.408	0.434	0.448	0.469	0.488	0.445	0.429	8.48	11.8690
	35	1,1,1-Trichloroethane	0.579	0.586	0.625	0.643	0.686	0.670	0.679	0.699	0.765	0.775	0.656	0.670	9.37	12.2169
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	tert-Amyl methyl ether (TAME)	0.118	0.116	0.115	0.135	0.124	0.122	0.125	0.135	0.150	0.155	0.145	0.131	10.88	12.6555
	38	1,2-Dichloroethane-d4	0.397	0.394	0.410	0.423	0.432	0.391	0.409	0.425	0.453	0.468	0.423	0.421	5.74	12.7800
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	1	0	18.5494
	40	1,1-Dichloropropene	0.185	0.199	0.199	0.194	0.198	0.191	0.194	0.199	0.210	0.217	0.203	0.199	4.41	12.4958
	41	Carbon tetrachloride	0.582	0.609	0.681	0.679	0.716	0.725	0.718	0.756	0.808	0.848	0.767	0.717	10.99	12.6974
	42	1,2-Dichloroethane	0.488	0.501	0.492	0.557	0.523	0.513	0.522	0.546	0.587	0.619	0.574	0.538	7.83	12.9506
	43	Benzene	1.687	1.600	1.603	1.586	1.549	1.473	1.487	1.582	1.625	1.709	------	1.590	4.74	12.9988
	44	Trichloroethene	0.414	0.423	0.429	0.419	0.424	0.416	0.417	0.448	0.464	0.486	0.451	0.436	5.43	14.0498
	45	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	46	1,2-Dichloropropane	0.362	0.359	0.373	0.393	0.387	0.373	0.365	0.398	0.417	0.430	0.403	0.387	6.05	14.3435
20	47	1,4-Dioxane	------	------	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	14.76	14.7444
	48	Bromodichloromethane	0.492	0.484	0.572	0.612	0.616	0.618	0.624	0.675	0.720	0.764	0.704	0.626	14.13	14.7537
	49	Dibromomethane	0.195	0.214	0.222	0.232	0.230	0.222	0.227	0.242	0.256	0.270	0.255	0.233	9.21	14.8661
	50	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	51	4-Methyl-2-pentanone	0.171	0.186	0.173	0.187	0.191	0.185	0.190	0.195	0.220	0.229	0.217	0.195	9.79	15.2112
	52	cis-1,3-Dichloropropene	0.489	0.475	0.508	0.551	0.564	0.585	0.582	0.632	0.671	0.698	0.646	0.582	12.72	15.6201
	53	Toluene-d8	1.391	1.491	1.507	1.570	1.552	1.415	1.458	1.520	1.600	1.647	------	1.515	5.31	16.0483
	54	Toluene	1.621	1.694	1.768	1.778	1.759	1.707	1.669	1.784	1.864	1.924	------	1.757	5.15	16.1809
	55	Ethyl methacrylate	0.218	0.219	0.229	0.277	0.266	0.265	0.268	0.284	0.302	0.325	------	0.265	13.25	16.3179
	56	trans-1,3-Dichloropropene	0.327	0.341	0.376	0.458	0.450	0.460	0.467	------	------	------	------	0.411	14.83	16.4250
5	57	2-Hexanone	0.114	0.119	0.113	0.122	0.123	0.126	0.128	0.138	0.151	0.157	0.145	0.131	11.38	16.6259
	58	1,1,2-Trichloroethane	0.204	0.207	0.208	0.228	0.218	0.214	0.211	0.225	0.244	0.255	0.232	0.222	7.35	16.7111

SW
2/18/11

2295

59	1,3-Dichloropropane	0.368	0.386	0.399	0.437	0.407	0.392	0.391	0.425	0.451	0.474	0.427	0.414	7.64	17.1132
60	Tetrachloroethene	0.388	0.435	0.426	0.426	0.412	0.407	0.402	0.420	0.446	0.454	0.418	0.421	4.57	17.2702
61	Dibromochloromethane	------	0.235	0.242	0.290	0.301	0.315	0.326	------	------	------	------	0.285	13.38	17.6283
62	1,2-Dibromoethane	0.210	0.213	0.238	0.257	0.253	0.256	0.257	0.273	0.291	0.305	0.281	0.258	11.52	17.9579
63	1-Chlorohexane	0.718	0.767	0.746	0.780	0.804	0.766	0.748	0.780	0.822	0.830	0.733	0.772	4.61	18.0621
64	Chlorobenzene	0.979	0.966	1.003	1.030	1.023	0.988	0.971	1.040	1.086	1.112	1.030	1.021	4.58	18.6158
65	1,1,1,2-Tetrachloroethane	0.295	0.316	0.354	0.366	0.380	0.363	0.375	0.404	0.426	0.432	0.401	0.374	11.37	18.6537
66	Ethylbenzene	2.016	2.188	2.208	2.288	2.327	2.211	2.176	2.321	2.416	2.408	------	2.256	5.37	18.6438
2 67	m-Xylene & p-Xylene	1.685	1.737	1.734	1.799	1.759	1.710	1.702	1.793	------	------	------	1.740	2.39	18.7592
68	o-Xylene	1.596	1.659	1.714	1.770	1.738	1.665	1.663	1.749	1.822	1.838	------	1.721	4.47	19.4896
69	Styrene	0.943	0.989	1.057	1.123	1.136	1.104	1.080	1.179	1.192	1.223	1.100	1.102	7.64	19.5376
70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	1	0	23.1100
71	Isopropylbenzene	4.739	4.839	4.805	5.034	5.033	4.804	4.739	5.055	5.462	5.393	------	4.990	5.22	20.0331
72	Bromoform	------	0.260	0.296	0.362	0.383	0.401	0.427	0.478	------	------	------	0.373	20.08	20.1964
73	1,1,2,2-Tetrachloroethane	0.635	0.569	0.613	0.672	0.655	0.612	0.615	0.655	0.748	0.759	0.695	0.657	8.92	20.3187
74	4-Bromofluorobenzene	1.725	1.542	1.488	1.499	1.546	1.385	1.410	1.511	1.641	1.635	1.534	1.538	6.50	20.4892
75	1,2,3-Trichloropropane	0.128	0.147	0.148	0.160	0.152	0.145	0.152	0.159	0.186	0.188	0.171	0.158	11.35	20.5664
76	trans-1,4-Dichloro-2-butene	------	------	0.089	0.113	0.126	0.142	0.163	------	------	------	------	0.127	22.13	20.6088
77	n-Propylbenzene	6.515	6.989	6.737	7.026	7.158	6.828	6.696	7.100	7.662	7.117	------	6.983	4.56	20.6838
78	Bromobenzene	0.982	1.062	1.101	1.081	1.087	1.038	1.040	1.114	1.243	1.248	1.163	1.105	7.55	20.8764
79	1,3,5-Trimethylbenzene	3.934	4.169	4.240	4.428	4.325	4.195	4.156	4.353	4.664	4.649	------	4.311	5.24	20.9176
80	2-Chlorotoluene	4.277	4.429	4.480	3.984	4.657	3.831	4.069	4.125	4.489	4.452	------	4.279	6.21	21.0501
81	4-Chlorotoluene	3.181	3.265	3.207	3.889	3.184	3.673	3.330	3.781	4.017	4.027	------	3.555	10.04	21.1067
82	tert-Butylbenzene	0.670	0.703	0.705	0.762	0.734	0.715	0.697	0.744	0.800	0.782	0.713	0.729	5.39	21.5235
83	1,2,4-Trimethylbenzene	4.049	3.947	4.067	4.124	4.174	4.016	3.945	4.157	4.452	4.388	------	4.132	4.15	21.5862
84	sec-Butylbenzene	5.201	5.677	5.280	5.565	5.676	5.399	5.314	5.554	5.941	5.849	------	5.546	4.45	21.8646
85	p-Isopropyltoluene	3.900	4.005	3.826	4.153	4.183	4.038	4.081	4.171	4.393	4.339	------	4.109	4.33	22.0612
86	1,3-Dichlorobenzene	1.704	1.778	1.801	1.887	1.901	1.825	1.842	1.928	2.047	2.047	1.880	1.876	5.60	22.3438
87	1,4-Dichlorobenzene	1.607	1.672	1.682	1.789	1.756	1.728	1.744	1.831	1.963	1.927	1.765	1.769	5.99	22.5090
88	n-Butylbenzene	4.319	4.407	4.285	4.813	4.709	4.907	4.788	4.876	5.115	5.035	------	4.725	6.21	22.7342
89	1,2-Dichlorobenzene	1.402	1.481	1.435	1.515	1.490	1.438	1.440	1.522	1.613	1.611	1.482	1.493	4.60	23.1574
90	1,2-Dibromo-3-chloropropane	------	------	0.061	0.070	0.072	0.073	0.082	0.086	------	------	------	0.074	12.09	24.4483
91	1,2,4-Trichlorobenzene	0.707	0.712	0.675	0.801	0.821	0.854	0.859	0.844	0.895	0.932	0.915	0.820	10.68	26.0529
92	Hexachlorobutadiene	0.710	0.747	0.707	0.793	0.775	0.777	0.757	0.722	0.765	0.801	0.739	0.754	4.24	26.2614
93	Naphthalene	1.038	0.877	0.771	0.910	0.893	0.902	0.967	0.971	1.047	1.109	1.080	0.960	10.58	26.6472
94	1,2,3-Trichlorobenzene	0.502	0.561	0.500	0.621	0.597	0.629	0.639	0.621	0.677	0.706	0.671	0.611	10.99	27.1251

Spike Amount = Nominal Amount * M
Ave_%RSD : 8.9 Max_%RSD : 22.1

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15
Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
72	Bromoform	-0.01432	0.45197	0.9974
76	trans-1,4-Dichloro-2-butene	-0.00897	0.15968	0.9971

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INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :T003
Beginning DateTime :02/16/11 15:43
Spike Units :PPB
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
Ending DateTime :02/16/11 21:52
HPChem Method :V003B16

M	IDX	Parameters	.3 15:43 RBB356	.5 16:18 RBB357	1 16:54 RBB358	2 17:32 RBB359	5 18:08 RBB360	10 18:45 RBB361	20 19:23 RBB362	30 20:00 RBB363	40 20:38 RBB364	50 21:15 RBB365	100 21:52 RBB366	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	1	1	0	13.4325
	2	Dichlorodifluoromethane	83	93	97	101	99	111	104	97	108	110	98	6	7.98	3.5871
	3	Dichlorotetrafluoroethane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	4	Chloromethane	------	82	89	90	99	108	106	100	110	113	101	8	10.18	4.0811
	5	Vinyl chloride	86	92	89	96	97	108	105	99	112	115	103	7.6	9.42	4.3411
	6	Bromomethane	84	76	93	86	100	109	106	103	113	119	108	10.8	13.37	5.2860
	7	Chloroethane	72	83	94	92	103	112	105	102	115	116	102	10.4	13.61	5.4552
	8	Dichlorofluoromethane	------	75	81	93	97	98	101	107	117	119	112	11.4	14.68	5.5359
	9	Trichlorofluoromethane	73	84	93	96	100	112	108	102	113	116	105	10	13.07	6.0048
5	10	Acrolein	------	------	------	89	89	78	89	100	111	122	111	12.5	14.42	6.8843
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	96	98	98	101	100	97	98	100	109	108	96	3.2	4.44	6.9415
5	12	Acetone	------	117	98	93	95	86	88	95	105	112	102	8.1	9.70	7.0086
	13	1,1-Dichloroethene	97	93	101	101	101	100	96	101	107	106	98	3	4.13	7.3382
5	14	tert-Butyl alcohol	------	------	83	92	83	83	92	100	117	117	108	12	14.23	7.4546
10	15	Acetonitrile	------	------	------	100	100	67	67	67	100	100	100	12.5	14.88	7.6065
	16	Methyl acetate	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	17	Iodomethane	95	90	97	94	101	97	99	102	112	113	101	5.2	7.16	8.0516
	18	Methylene chloride	108	98	101	97	98	93	94	96	107	109	98	4.5	5.52	8.4252
	19	Carbon disulfide	86	86	93	96	103	90	99	107	117	117	107	9	11.02	8.5024
5	20	Acrylonitrile	82	79	85	100	100	100	100	106	118	121	115	10.5	14.37	8.6621
	21	tert-Butyl methyl ether (MTBE)	90	88	90	100	97	95	98	101	115	117	110	7.8	10.15	8.7054
	22	trans-1,2-Dichloroethene	87	91	97	102	98	100	99	102	112	113	99	5.3	7.62	9.0546
	23	Isopropyl ether (DIPE)	90	89	92	102	96	98	99	103	114	113	105	6.6	8.30	9.6625
	24	Vinyl acetate	------	------	89	94	94	105	102	97	109	112	99	6.1	7.48	9.9083
	25	1,1-Dichloroethane	84	90	101	101	98	98	99	104	112	112	101	5.5	8.06	9.9427
5	26	2-Butanol	------	------	87	87	100	87	100	112	------	------	------	8.3	11.58	10.3494
	27	tert-Butyl ethyl ether (ETBE)	86	88	90	101	97	95	97	103	115	118	110	8.6	10.75	10.4923
5	28	2-Butanone	106	100	89	95	95	97	94	100	110	114	108	6.2	7.90	10.7535
	29	2,2-Dichloropropane	99	98	103	102	106	103	99	100	104	104	83	4.2	6.44	11.0622
	30	cis-1,2-Dichloroethene	79	90	97	100	102	97	99	106	113	112	103	6.6	9.43	11.1583
	31	Chloroform	90	93	99	101	101	97	98	101	108	112	100	4.3	6.25	11.4575
	32	Bromochloromethane	91	88	91	103	102	95	98	103	111	115	104	6.8	8.43	11.7823
	33	Tetrahydrofuran	------	106	114	117	92	89	86	92	106	106	103	9.2	10.17	11.8272
	34	Dibromofluoromethane	88	86	95	99	105	95	101	104	109	114	104	6.7	8.48	11.8690
	35	1,1,1-Trichloroethane	86	87	93	96	102	100	101	104	114	116	98	7	9.37	12.2169
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	tert-Amyl methyl ether (TAME)	90	89	88	103	95	93	95	103	115	118	111	9.1	10.88	12.6555
	38	1,2-Dichloroethane-d4	94	94	97	100	103	93	97	101	108	111	100	4.4	5.74	12.7800
	39	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	1	1	0	18.5494
	40	1,1-Dichloropropene	93	100	100	97	99	96	97	100	106	109	102	3	4.41	12.4958
	41	Carbon tetrachloride	81	85	95	95	100	101	100	105	113	118	107	8.1	10.99	12.6974
	42	1,2-Dichloroethane	91	93	91	104	97	95	97	101	109	115	107	6.5	7.83	12.9506
	43	Benzene	106	101	101	100	97	93	94	99	102	107	------	3.4	4.74	12.9988
	44	Trichloroethene	95	97	98	96	97	95	96	103	106	111	103	4.5	5.43	14.0498
	45	Methylcyclohexane	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	46	1,2-Dichloropropane	94	93	96	102	100	96	94	103	108	111	104	4.9	6.05	14.3435
20	47	1,4-Dioxane	------	------	100	100	100	100	100	100	100	100	100	0	14.76	14.7444
	48	Bromodichloromethane	79	77	91	98	98	99	100	108	115	122	112	10.5	14.13	14.7537
	49	Dibromomethane	84	92	95	100	99	95	97	104	110	116	109	7	9.21	14.8661
	50	2-Chloroethyl vinyl ether	------	------	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
5	51	4-Methyl-2-pentanone	88	95	89	96	98	95	97	100	113	117	111	7.6	9.79	15.2112
	52	cis-1,3-Dichloropropene	84	82	87	95	97	101	100	109	115	120	111	10.1	12.72	15.6201
	53	Toluene-d8	92	98	99	104	102	93	96	100	106	109	------	4.1	5.31	16.0483
	54	Toluene	92	96	101	101	100	97	95	102	106	110	------	3.8	5.15	16.1809
	55	Ethyl methacrylate	82	83	86	105	100	100	101	107	114	123	------	9.8	13.25	16.3179
	56	trans-1,3-Dichloropropene	80	83	91	111	109	112	114	------	------	------	------	13.2	14.83	16.4250
5	57	2-Hexanone	87	91	86	93	94	96	98	105	115	120	111	9.6	11.38	16.6259
	58	1,1,2-Trichloroethane	92	93	94	103	98	96	95	101	110	115	105	5.9	7.35	16.7111
	59	1,3-Dichloropropane	89	93	96	106	98	95	94	103	109	114	103	6.3	7.64	17.1132

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60	Tetrachloroethene	92	103	101	101	98	97	95	100	106	108	99	3.5	4.57	17.2702
61	Dibromochloromethane	------	82	85	102	106	111	114	------	------	------	------	10.8	13.38	17.6283
62	1,2-Dibromoethane	81	83	92	100	98	99	100	106	113	118	109	8.5	11.52	17.9579
63	1-Chlorohexane	93	99	97	101	104	99	97	101	106	108	95	3.7	4.61	18.0621
64	Chlorobenzene	96	95	98	101	100	97	95	102	106	109	101	3.5	4.58	18.6158
65	1,1,1,2-Tetrachloroethane	79	84	95	98	102	97	100	108	114	116	107	8.5	11.37	18.6537
66	Ethylbenzene	89	97	98	101	103	98	96	103	107	107	------	4.3	5.37	18.6438
2 67	m-Xylene & p-Xylene	97	100	100	103	101	98	98	103	------	------	------	1.9	2.39	18.7592
68	o-Xylene	93	96	100	103	101	97	97	102	106	107	------	3.6	4.47	19.4896
69	Styrene	86	90	96	102	103	100	98	107	108	111	100	5.7	7.64	19.5376
70	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	1	1	0	23.1100
71	Isopropylbenzene	95	97	96	101	101	96	95	101	109	108	------	4.1	5.22	20.0331
72	Bromoform	------	121	97	96	91	92	96	107	------	------	------	8	10.5	20.1964
73	1,1,2,2-Tetrachloroethane	97	87	93	102	100	93	94	100	114	116	106	6.8	8.92	20.3187
74	4-Bromofluorobenzene	112	100	97	97	101	90	92	98	107	106	100	4.7	6.50	20.4892
75	1,2,3-Trichloropropane	81	93	94	101	96	92	96	101	118	119	108	8.6	11.35	20.5664
76	trans-1,4-Dichloro-2-butene	------	------	112	99	90	94	105	------	------	------	------	6.8	8.7	20.6088
77	n-Propylbenzene	93	100	96	101	103	98	96	102	110	102	------	3.3	4.56	20.6838
78	Bromobenzene	89	96	100	98	98	94	94	101	112	113	105	5.7	7.55	20.8764
79	1,3,5-Trimethylbenzene	91	97	98	103	100	97	96	101	108	108	------	4	5.24	20.9176
80	2-Chlorotoluene	100	104	105	93	109	90	95	96	105	104	------	5.2	6.21	21.0501
81	4-Chlorotoluene	89	92	90	109	90	103	94	106	113	113	------	9.1	10.04	21.1067
82	tert-Butylbenzene	92	96	97	105	101	98	96	102	110	107	98	4.3	5.39	21.5235
83	1,2,4-Trimethylbenzene	98	96	98	100	101	97	95	101	108	106	------	3.1	4.15	21.5862
84	sec-Butylbenzene	94	102	95	100	102	97	96	100	107	105	------	3.6	4.45	21.8646
85	p-Isopropyltoluene	95	97	93	101	102	98	99	102	107	106	------	3.4	4.33	22.0612
86	1,3-Dichlorobenzene	91	95	96	101	101	97	98	103	109	109	100	4.2	5.60	22.3438
87	1,4-Dichlorobenzene	91	95	95	101	99	98	99	104	111	109	100	4.4	5.99	22.5090
88	n-Butylbenzene	91	93	91	102	100	104	101	103	108	107	------	5	6.21	22.7342
89	1,2-Dichlorobenzene	94	99	96	101	100	96	96	102	108	108	99	3.5	4.60	23.1574
90	1,2-Dibromo-3-chloropropane	------	------	82	95	97	99	111	116	------	------	------	9	12.09	24.4483
91	1,2,4-Trichlorobenzene	86	87	82	98	100	104	105	103	109	114	112	8.5	10.68	26.0529
92	Hexachlorobutadiene	94	99	94	105	103	103	100	96	101	106	98	3.5	4.24	26.2614
93	Naphthalene	108	91	80	95	93	94	101	101	109	116	112	8.5	10.58	26.6472
94	1,2,3-Trichlorobenzene	82	92	82	102	98	103	105	102	111	116	110	8.5	10.99	27.1251

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Compound List Report TO03

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
Total Cpnds : 94

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	13.43	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	3.59	0.267	A	1	A	B
3	T	Dichlorotetrafluoroethane	85	3.59	0.267	A	2	A	B
4	T	Chloromethane	50	4.08	0.304	A	1	A	B
5	T	Vinyl chloride	62	4.33	0.323	A	1	A	B
6	T	Bromomethane	94	5.29	0.394	A	1	A	B
7	T	Chloroethane	64	5.45	0.406	A	2	A	B
8	T	Dichlorofluoromethane	67	5.54	0.412	A	1	A	B
9	T	Trichlorofluoromethane	101	6.00	0.447	A	1	A	B
10	T	Acrolein	56	6.88	0.512	A	1	A	B
11	T	1,1,2-Trichloro-1,2,2-trifluor	151	6.94	0.517	A	1	A	B
12	T	Acetone	43	7.00	0.521	A	2	A	B
13	T	1,1-Dichloroethene	61	7.34	0.547	A	2	A	B
14	T	tert-Butyl alcohol	59	7.45	0.554	A	1	A	B
15	T	Acetonitrile	39	7.59	0.565	A	2	A	B
16	T	Methyl acetate	43	8.03	0.598	A	1	A	B
17	T	Iodomethane	142	8.06	0.600	A	1	A	B
18	T	Methylene chloride	49	8.43	0.628	A	2	A	B
19	T	Carbon disulfide	76	8.50	0.633	A	1	A	B
20	T	Acrylonitrile	53	8.65	0.644	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	8.70	0.647	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	9.05	0.674	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	9.66	0.720	A	1	A	B
24	T	Vinyl acetate	43	9.90	0.737	A	1	A	B
25	T	1,1-Dichloroethane	63	9.95	0.741	A	2	A	B
26	T	2-Butanol	45	10.35	0.770	A	1	A	B
27	T	tert-Butyl ethyl ether (ETBE)	59	10.48	0.781	A	1	A	B
28	T	2-Butanone	43	10.75	0.800	A	1	A	B
29	T	2,2-Dichloropropane	77	11.06	0.824	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	11.15	0.830	A	2	A	B
31	T	Chloroform	83	11.45	0.853	A	2	A	B
32	T	Bromochloromethane	49	11.78	0.877	A	2	A	B
33	T	Tetrahydrofuran	42	11.82	0.880	A	2	A	B
34	S	Dibromofluoromethane	111	11.87	0.884	A	2	A	B
35	T	1,1,1-Trichloroethane	97	12.21	0.909	A	2	A	B
36	T	Cyclohexane	56	12.23	0.910	A	2	A	B
37	T	tert-Amyl methyl ether (TAME)	87	12.66	0.942	A	2	A	B
38	S	1,2-Dichloroethane-d4	65	12.78	0.951	A	1	A	B
39	I	CHLOROBENZENE-D5	117	18.55	1.000	A	2	A	B
40	T	1,1-Dichloropropene	110	12.49	0.673	A	1	A	B
41	T	Carbon tetrachloride	119	12.70	0.685	A	1	A	B
42	T	1,2-Dichloroethane	62	12.96	0.698	A	1	A	B
43	T	Benzene	78	13.00	0.701	A	2	A	B
44	T	Trichloroethene	130	14.04	0.757	A	3	A	B
45	T	Methylcyclohexane	83	14.04	0.757	A	2	A	B
46	T	1,2-Dichloropropane	63	14.34	0.773	A	2	A	B
47	T	1,4-Dioxane	88	14.74	0.795	A	1	A	B
48	T	Bromodichloromethane	83	14.76	0.795	A	1	A	B
49	T	Dibromomethane	93	14.86	0.801	A	2	A	B
50	T	2-Chloroethyl vinyl ether	63	15.17	0.818	A	2	A	B
51	T	4-Methyl-2-pentanone	43	15.20	0.819	A	3	A	B
52	T	cis-1,3-Dichloropropene	75	15.62	0.842	A	3	A	B

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53	S	Toluene-d8	98	16.05	0.865	A	1	A	B
54	T	Toluene	91	16.17	0.872	A	1	A	B
55	T	Ethyl methacrylate	69	16.32	0.880	A	2	A	B
56	T	trans-1,3-Dichloropropene	75	16.43	0.885	A	2	A	B
57	T	2-Hexanone	43	16.62	0.896	A	2	A	B
58	T	1,1,2-Trichloroethane	97	16.71	0.900	A	3	A	B
59	T	1,3-Dichloropropane	76	17.11	0.922	A	1	A	B
60	T	Tetrachloroethene	164	17.27	0.931	A	3	A	B
61	T	Dibromochloromethane	129	17.62	0.949	A	1	A	B
62	T	1,2-Dibromoethane	107	17.96	0.968	A	1	A	B
63	T	1-Chlorohexane	91	18.06	0.974	A	3	A	B
64	P	Chlorobenzene	112	18.61	1.003	A	3	A	B
65	T	1,1,1,2-Tetrachloroethane	131	18.66	1.006	A	3	A	B
66	T	Ethylbenzene	91	18.64	1.005	A	1	A	B
67	T	m-Xylene & p-Xylene	91	18.75	1.010	A	1	A	B
68	T	o-Xylene	91	19.49	1.051	A	1	A	B
69	T	Styrene	104	19.54	1.053	A	2	A	B
70	I	1,2-DICHLOROBENZENE-D4	152	23.11	1.000	A	1	A	B
71	T	Isopropylbenzene	105	20.03	0.867	A	3	A	B
72	T	Bromoform	173	20.19	0.874	L	2	A	B
73	T	1,1,2,2-Tetrachloroethane	83	20.31	0.879	A	1	A	B
74	S	4-Bromofluorobenzene	95	20.49	0.887	A	2	A	B
75	T	1,2,3-Trichloropropane	110	20.56	0.890	A	2	A	B
76	T	trans-1,4-Dichloro-2-butene	53	20.61	0.892	L	1	A	B
77	T	n-Propylbenzene	91	20.68	0.895	A	2	A	B
78	T	Bromobenzene	156	20.88	0.903	A	2	A	B
79	T	1,3,5-Trimethylbenzene	105	20.92	0.905	A	2	A	B
80	T	2-Chlorotoluene	91	21.04	0.910	A	1	A	B
81	T	4-Chlorotoluene	91	21.10	0.913	A	1	A	B
82	T	tert-Butylbenzene	134	21.52	0.931	A	2	A	B
83	T	1,2,4-Trimethylbenzene	105	21.58	0.934	A	1	A	B
84	T	sec-Butylbenzene	105	21.86	0.946	A	1	A	B
85	T	p-Isopropyltoluene	119	22.05	0.954	A	2	A	B
86	T	1,3-Dichlorobenzene	146	22.34	0.966	A	2	A	B
87	T	1,4-Dichlorobenzene	146	22.50	0.974	A	2	A	B
88	T	n-Butylbenzene	91	22.74	0.984	A	2	A	B
89	T	1,2-Dichlorobenzene	146	23.16	1.002	A	2	A	B
90	T	1,2-Dibromo-3-chloropropane	157	24.45	1.058	A	2	A	B
91	T	1,2,4-Trichlorobenzene	180	26.04	1.127	A	2	A	B
92	T	Hexachlorobutadiene	225	26.25	1.136	A	2	A	B
93	T	Naphthalene	128	26.64	1.153	A	1	A	B
94	T	1,2,3-Trichlorobenzene	180	27.12	1.173	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

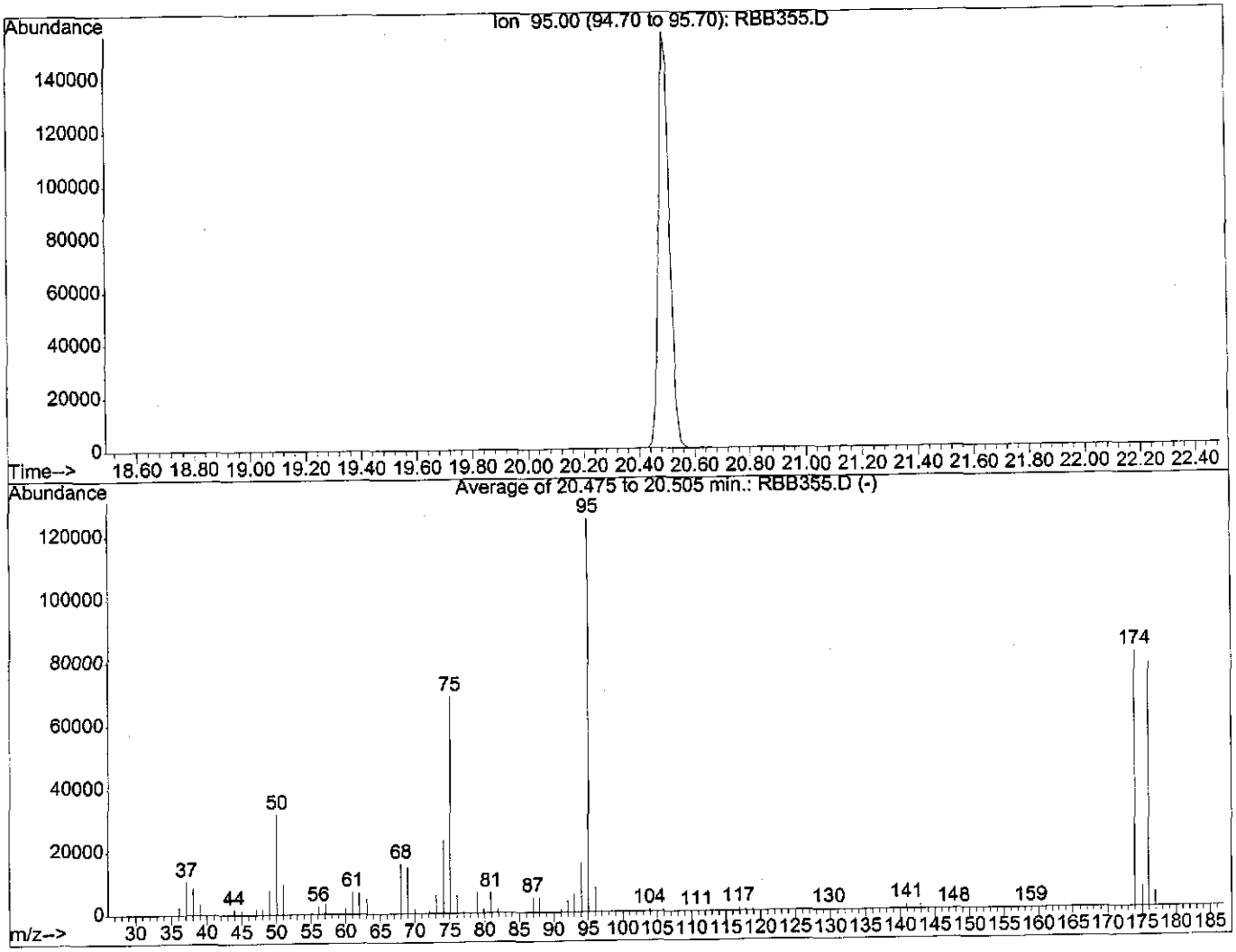
VO03B16.M Thu Feb 17 08:49:00 2011

SG 2/18/11

BFB

Data File : D:\HPCHEM\1\DATA\11B16\RBB355.D
Acq On : 16 Feb 2011 3:06 pm
Sample : BFB03B22
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL

Vial: 2
Operator: MW
Inst : TO03
Multiplr: 1.00



AutoFind: Scans 1145, 1146, 1147; Background Corrected with Scan 1140

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.6	31952	PASS
75	95	30	60	55.1	68904	PASS
95	95	100	100	100.0	125048	PASS
96	95	5	9	6.3	7929	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	64.9	81120	PASS
175	174	5	9	7.8	6354	PASS
176	174	95	101	95.3	77307	PASS
177	176	5	9	6.4	4949	PASS

RBB355.D VO03B16.M Thu Feb 17 08:37:33 2011

SM 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB356.D
Acq On : 16 Feb 2011 3:43 pm
Sample : VO03B161 0.3ppb
Misc : 0.3ppb 8260/1.5ppb TBA-KET/1.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1758871	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.56	117	1591876	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	592810	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	19860	0.26 ug/l	0.00
Spiked Amount 10.000			Recovery	= 2.60%	
38) 1,2-Dichloroethane-d4	12.78	65	20974	0.28 ug/l	0.00
Spiked Amount 10.000			Recovery	= 2.80%	
53) Toluene-d8	16.05	98	66427	0.28 ug/l	0.00
Spiked Amount 10.000			Recovery	= 2.80%	
74) 4-Bromofluorobenzene	20.49	95	30679	0.34 ug/l	0.00
Spiked Amount 10.000			Recovery	= 3.40%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	18651	0.25 ug/l	95
4) Chloromethane	4.08	50	13098	0.17 ug/l	73
5) Vinyl chloride	4.35	62	17306	0.26 ug/l	76
6) Bromomethane	5.29	94	12555	0.25 ug/l	72
7) Chloroethane	5.47	64	6376	0.22 ug/l	75
8) Dichlorofluoromethane	5.53	67	25347	0.21 ug/l	98
9) Trichlorofluoromethane	6.00	101	20479	0.22 ug/l	94
10) Acrolein	6.90	56	2398	1.58 ug/l #	63
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	11018	0.29 ug/l	99
12) Acetone	7.02	43	18182	2.49 ug/l	90
13) 1,1-Dichloroethene	7.33	61	32704	0.29 ug/l	99
14) tert-Butyl alcohol	7.43	59	1172	0.57 ug/l #	1
15) Acetonitrile	7.66	39	3133	6.68 ug/l #	25
17) Iodomethane	8.06	142	30827	0.28 ug/l	99
18) Methylene chloride	8.43	49	24743	0.32 ug/l	92
19) Carbon disulfide	8.51	76	50004	0.26 ug/l	97
20) Acrylonitrile	8.68	53	7064	1.21 ug/l	88
21) tert-Butyl methyl ether (M	8.71	73	22089	0.27 ug/l	93
22) trans-1,2-Dichloroethene	9.06	61	27920	0.26 ug/l	94
23) Isopropyl ether (DIPE)	9.67	45	52820	0.27 ug/l	97
24) Vinyl acetate	9.92	43	14788	0.26 ug/l #	85
25) 1,1-Dichloroethane	9.95	63	30855	0.25 ug/l	97
26) 2-Butanol	10.35	45	1023	0.76 ug/l #	59
27) tert-Butyl ethyl ether (ET	10.50	59	35076	0.26 ug/l	96
28) 2-Butanone	10.77	43	17659	1.58 ug/l	99
29) 2,2-Dichloropropane	11.05	77	18808	0.30 ug/l	95
30) cis-1,2-Dichloroethene	11.16	96	16368	0.24 ug/l	85

(#) = qualifier out of range (m) = manual integration

SG 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB356.D
Acq On : 16 Feb 2011 3:43 pm
Sample : VO03B161 0.3ppb
Misc : 0.3ppb 8260/1.5ppb TBA-KET/1.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.47	83	39439	0.27 ug/l	97
32) Bromochloromethane	11.78	49	14644	0.27 ug/l	96
33) Tetrahydrofuran	11.86	42	3401	0.53 ug/l #	41
35) 1,1,1-Trichloroethane	12.23	97	30567	0.26 ug/l	97
37) tert-Amyl methyl ether (TA	12.67	87	6208	0.27 ug/l	90
40) 1,1-Dichloropropene	12.51	110	8834	0.28 ug/l	92
41) Carbon tetrachloride	12.70	119	27795	0.24 ug/l	91
42) 1,2-Dichloroethane	12.96	62	23320	0.27 ug/l	89
43) Benzene	13.00	78	80553	0.32 ug/l	98
44) Trichloroethene	14.06	130	19775	0.29 ug/l	98
46) 1,2-Dichloropropane	14.34	63	17268	0.28 ug/l	95
48) Bromodichloromethane	14.76	83	23473	0.24 ug/l	95
49) Dibromomethane	14.88	93	9305	0.25 ug/l	92
51) 4-Methyl-2-pentanone	15.22	43	40828	1.32 ug/l	95
52) cis-1,3-Dichloropropene	15.62	75	23363	0.25 ug/l	95
54) Toluene	16.19	91	77395	0.28 ug/l	98
55) Ethyl methacrylate	16.32	69	10407	0.25 ug/l	77
56) trans-1,3-Dichloropropene	16.43	75	15633	0.24 ug/l	91
57) 2-Hexanone	16.64	43	27216	1.31 ug/l	95
58) 1,1,2-Trichloroethane	16.71	97	9741	0.28 ug/l	96
59) 1,3-Dichloropropane	17.13	76	17574	0.27 ug/l	87
60) Tetrachloroethene	17.28	164	18543	0.28 ug/l	94
61) Dibromochloromethane	17.63	129	9937	0.22 ug/l	98
62) 1,2-Dibromoethane	17.96	107	10028	0.24 ug/l	82
63) 1-Chlorohexane	18.06	91	34306	0.28 ug/l	97
64) Chlorobenzene	18.62	112	46766	0.29 ug/l	88
65) 1,1,1,2-Tetrachloroethane	18.66	131	14081	0.24 ug/l #	72
66) Ethylbenzene	18.65	91	96276	0.27 ug/l	95
67) m-Xylene & p-Xylene	18.76	91	160973	0.58 ug/l	100
68) o-Xylene	19.49	91	76220	0.28 ug/l	99
69) Styrene	19.54	104	45018	0.26 ug/l	97
71) Isopropylbenzene	20.05	105	84279	0.28 ug/l	99
72) Bromoform	20.21	173	4324	0.48 ug/l	95
73) 1,1,2,2-Tetrachloroethane	20.33	83	11288	0.29 ug/l	92
75) 1,2,3-Trichloropropane	20.58	110	2278	0.24 ug/l #	67
76) trans-1,4-Dichloro-2-buten	20.61	53	1348	0.70 ug/l #	27
77) n-Propylbenzene	20.69	91	115867	0.28 ug/l	99
78) Bromobenzene	20.88	156	17458	0.27 ug/l	95
79) 1,3,5-Trimethylbenzene	20.92	105	69961	0.27 ug/l	98
80) 2-Chlorotoluene	21.06	91	76055	0.30 ug/l	95
81) 4-Chlorotoluene	21.12	91	56576	0.27 ug/l	90

(#) = qualifier out of range (m) = manual integration

SW 2/18/11

2213

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB356.D
Acq On : 16 Feb 2011 3:43 pm
Sample : VO03B161 0.3ppb
Misc : 0.3ppb 8260/1.5ppb TBA-KET/1.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
82) tert-Butylbenzene	21.53	134	11919	0.28 ug/l		93
83) 1,2,4-Trimethylbenzene	21.59	105	72008	0.29 ug/l		98
84) sec-Butylbenzene	21.86	105	92488	0.28 ug/l		98
85) p-Isopropyltoluene	22.07	119	69359	0.28 ug/l		99
86) 1,3-Dichlorobenzene	22.35	146	30304	0.27 ug/l		97
87) 1,4-Dichlorobenzene	22.52	146	28584	0.27 ug/l		98
88) n-Butylbenzene	22.74	91	76809	0.27 ug/l		98
89) 1,2-Dichlorobenzene	23.17	146	24934	0.28 ug/l	#	62
90) 1,2-Dibromo-3-chloropropan	24.44	157	1103	0.25 ug/l	#	61
91) 1,2,4-Trichlorobenzene	26.06	180	12565	0.26 ug/l		96
92) Hexachlorobutadiene	26.27	225	12622	0.28 ug/l		94
93) Naphthalene	26.66	128	18459	0.32 ug/l		95
94) 1,2,3-Trichlorobenzene	27.13	180	8932	0.25 ug/l		94

SL 2/18/11

(#) = qualifier out of range (m) = manual integration

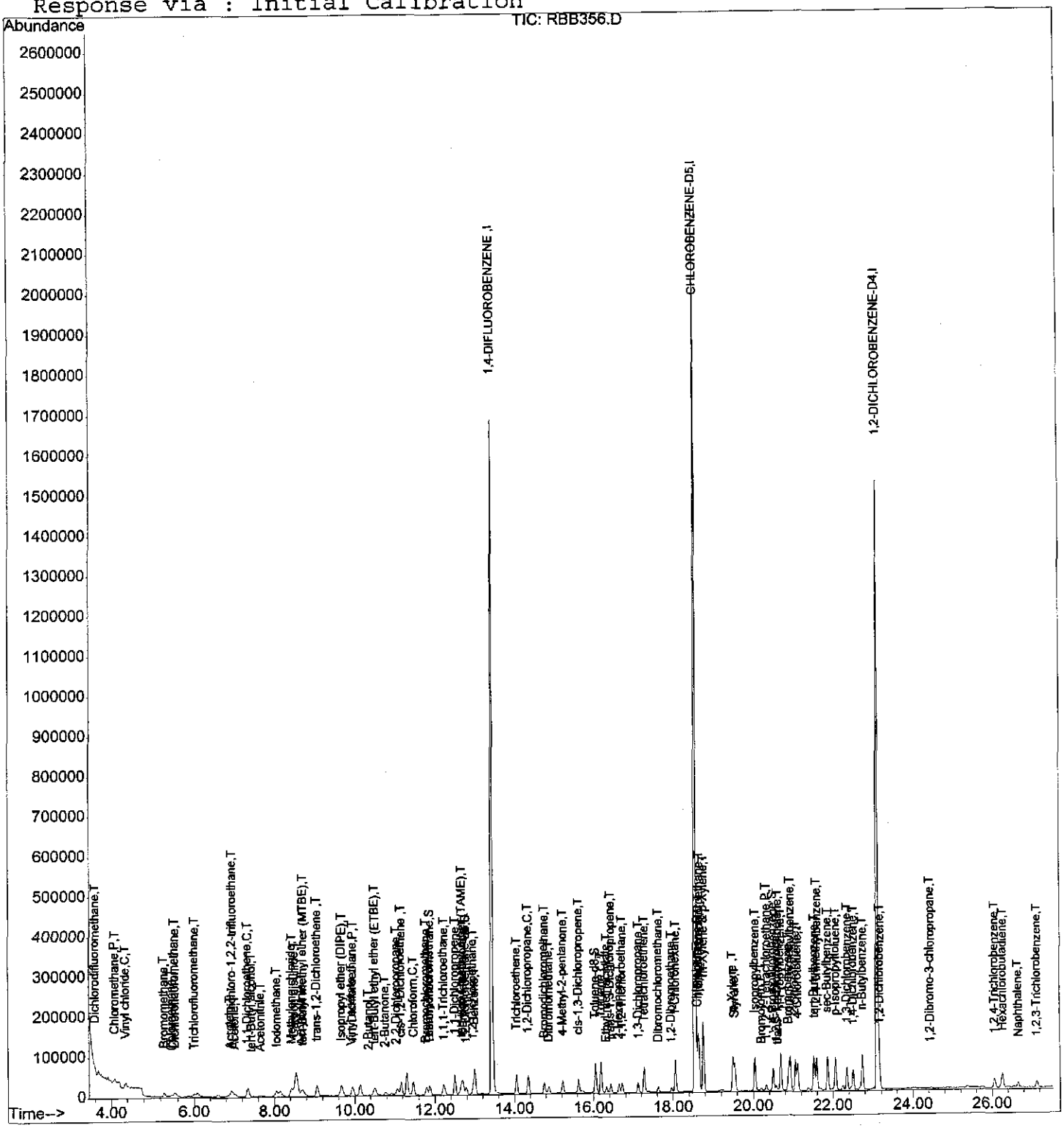
Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB356.D
Acq On : 16 Feb 2011 3:43 pm
Sample : VO03B161 0.3ppb
Misc : 0.3ppb 8260/1.5ppb TBA-KET/1.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SG 2/18/11

2215

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB357.D
Acq On : 16 Feb 2011 4:18 pm
Sample : VO03B162 0.5ppb
Misc : 0.5ppb 8260/2.5ppb TBA-KET/2.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1808326	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1603673	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	613160	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	33547	0.43 ug/l	0.00
Spiked Amount 10.000			Recovery	= 4.30%	
38) 1,2-Dichloroethane-d4	12.78	65	35627	0.47 ug/l	0.00
Spiked Amount 10.000			Recovery	= 4.70%	
53) Toluene-d8	16.05	98	119539	0.49 ug/l	0.00
Spiked Amount 10.000			Recovery	= 4.90%	
74) 4-Bromofluorobenzene	20.49	95	47270	0.50 ug/l	0.00
Spiked Amount 10.000			Recovery	= 5.00%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	35719	0.47 ug/l	99
4) Chloromethane	4.08	50	32218	0.41 ug/l	96
5) Vinyl chloride	4.35	62	31800	0.46 ug/l	85
6) Bromomethane	5.29	94	19538	0.38 ug/l	84
7) Chloroethane	5.47	64	12703	0.42 ug/l	79
8) Dichlorofluoromethane	5.54	67	46796	0.38 ug/l	96
9) Trichlorofluoromethane	6.02	101	40684	0.42 ug/l	95
10) Acrolein	6.90	56	3285	2.10 ug/l	93
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	19160	0.49 ug/l	95
12) Acetone	7.03	43	22037	2.93 ug/l	96
13) 1,1-Dichloroethene	7.34	61	53432	0.46 ug/l	94
14) tert-Butyl alcohol	7.49	59	2889	1.36 ug/l #	1
15) Acetonitrile	7.67	39	4409	9.14 ug/l #	1
17) Iodomethane	8.06	142	50017	0.45 ug/l	100
18) Methylene chloride	8.43	49	38673	0.49 ug/l	96
19) Carbon disulfide	8.52	76	86388	0.43 ug/l	99
20) Acrylonitrile	8.67	53	11889	1.97 ug/l	90
21) tert-Butyl methyl ether (M	8.71	73	36874	0.44 ug/l	94
22) trans-1,2-Dichloroethene	9.05	61	49824	0.45 ug/l	96
23) Isopropyl ether (DIPE)	9.68	45	89884	0.45 ug/l	100
24) Vinyl acetate	9.92	43	25986	0.44 ug/l #	85
25) 1,1-Dichloroethane	9.95	63	56432	0.45 ug/l	96
26) 2-Butanol	10.38	45	3105	2.24 ug/l #	59
27) tert-Butyl ethyl ether (ET	10.50	59	61449	0.44 ug/l	96
28) 2-Butanone	10.77	43	28438	2.48 ug/l	97
29) 2,2-Dichloropropane	11.06	77	31853	0.49 ug/l	97
30) cis-1,2-Dichloroethene	11.15	96	31856	0.45 ug/l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB357.D
Acq On : 16 Feb 2011 4:18 pm
Sample : VO03B162 0.5ppb
Misc : 0.5ppb 8260/2.5ppb TBA-KET/2.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.47	83	69385	0.46 ug/l	99
32) Bromochloromethane	11.79	49	24046	0.44 ug/l	93
33) Tetrahydrofuran	11.82	42	3394	0.52 ug/l #	67
35) 1,1,1-Trichloroethane	12.23	97	53011	0.44 ug/l	98
37) tert-Amyl methyl ether (TA	12.66	87	10468	0.44 ug/l	95
40) 1,1-Dichloropropene	12.49	110	15996	0.50 ug/l	96
41) Carbon tetrachloride	12.70	119	48849	0.42 ug/l	90
42) 1,2-Dichloroethane	12.96	62	40172	0.47 ug/l	98
43) Benzene	13.00	78	128316	0.50 ug/l	98
44) Trichloroethene	14.06	130	33957	0.49 ug/l	97
46) 1,2-Dichloropropane	14.36	63	28764	0.46 ug/l	98
48) Bromodichloromethane	14.76	83	38792	0.39 ug/l	93
49) Dibromomethane	14.88	93	17145	0.46 ug/l	96
51) 4-Methyl-2-pentanone	15.22	43	74654	2.39 ug/l	99
52) cis-1,3-Dichloropropene	15.62	75	38094	0.41 ug/l	95
54) Toluene	16.19	91	135856	0.48 ug/l	94
55) Ethyl methacrylate	16.32	69	17582	0.41 ug/l	93
56) trans-1,3-Dichloropropene	16.43	75	27348	0.41 ug/l	86
57) 2-Hexanone	16.63	43	47877	2.29 ug/l	92
58) 1,1,2-Trichloroethane	16.72	97	16584	0.47 ug/l	94
59) 1,3-Dichloropropane	17.11	76	30939	0.47 ug/l	99
60) Tetrachloroethene	17.27	164	34894	0.52 ug/l	99
61) Dibromochloromethane	17.63	129	18856	0.41 ug/l	92
62) 1,2-Dibromoethane	17.96	107	17051	0.41 ug/l	93
63) 1-Chlorohexane	18.06	91	61469	0.50 ug/l	97
64) Chlorobenzene	18.61	112	77474	0.47 ug/l	96
65) 1,1,1,2-Tetrachloroethane	18.66	131	25303	0.42 ug/l	96
66) Ethylbenzene	18.64	91	175475	0.49 ug/l	99
67) m-Xylene & p-Xylene	18.76	91	278589	1.00 ug/l	100
68) o-Xylene	19.49	91	132987	0.48 ug/l	100
69) Styrene	19.54	104	79300	0.45 ug/l	98
71) Isopropylbenzene	20.04	105	148359	0.48 ug/l	99
72) Bromoform	20.19	173	7973	0.60 ug/l	98
73) 1,1,2,2-Tetrachloroethane	20.33	83	17458	0.43 ug/l	96
75) 1,2,3-Trichloropropane	20.56	110	4522	0.47 ug/l	95
76) trans-1,4-Dichloro-2-buten	20.62	53	2885	0.86 ug/l #	27
77) n-Propylbenzene	20.68	91	214284	0.50 ug/l	100
78) Bromobenzene	20.88	156	32554	0.48 ug/l	97
79) 1,3,5-Trimethylbenzene	20.92	105	127817	0.48 ug/l	99
80) 2-Chlorotoluene	21.06	91	135777	0.52 ug/l	93
81) 4-Chlorotoluene	21.12	91	100105	0.46 ug/l	89

(#) = qualifier out of range (m) = manual integration

SG 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB357.D
Acq On : 16 Feb 2011 4:18 pm
Sample : VO03B162 0.5ppb
Misc : 0.5ppb 8260/2.5ppb TBA-KET/2.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) tert-Butylbenzene	21.53	134	21541	0.48 ug/l #	91
83) 1,2,4-Trimethylbenzene	21.59	105	121011	0.48 ug/l	98
84) sec-Butylbenzene	21.88	105	174043	0.51 ug/l	98
85) p-Isopropyltoluene	22.07	119	122792	0.49 ug/l	98
86) 1,3-Dichlorobenzene	22.35	146	54513	0.47 ug/l	96
87) 1,4-Dichlorobenzene	22.52	146	51265	0.47 ug/l	97
88) n-Butylbenzene	22.74	91	135105	0.47 ug/l	97
89) 1,2-Dichlorobenzene	23.16	146	45407	0.50 ug/l	86
90) 1,2-Dibromo-3-chloropropan	24.45	157	1271	0.28 ug/l #	60
91) 1,2,4-Trichlorobenzene	26.06	180	21814	0.43 ug/l	96
92) Hexachlorobutadiene	26.27	225	22901	0.50 ug/l	98
93) Naphthalene	26.65	128	26872	0.46 ug/l	100
94) 1,2,3-Trichlorobenzene	27.13	180	17185	0.46 ug/l	97

SG 2/18/11

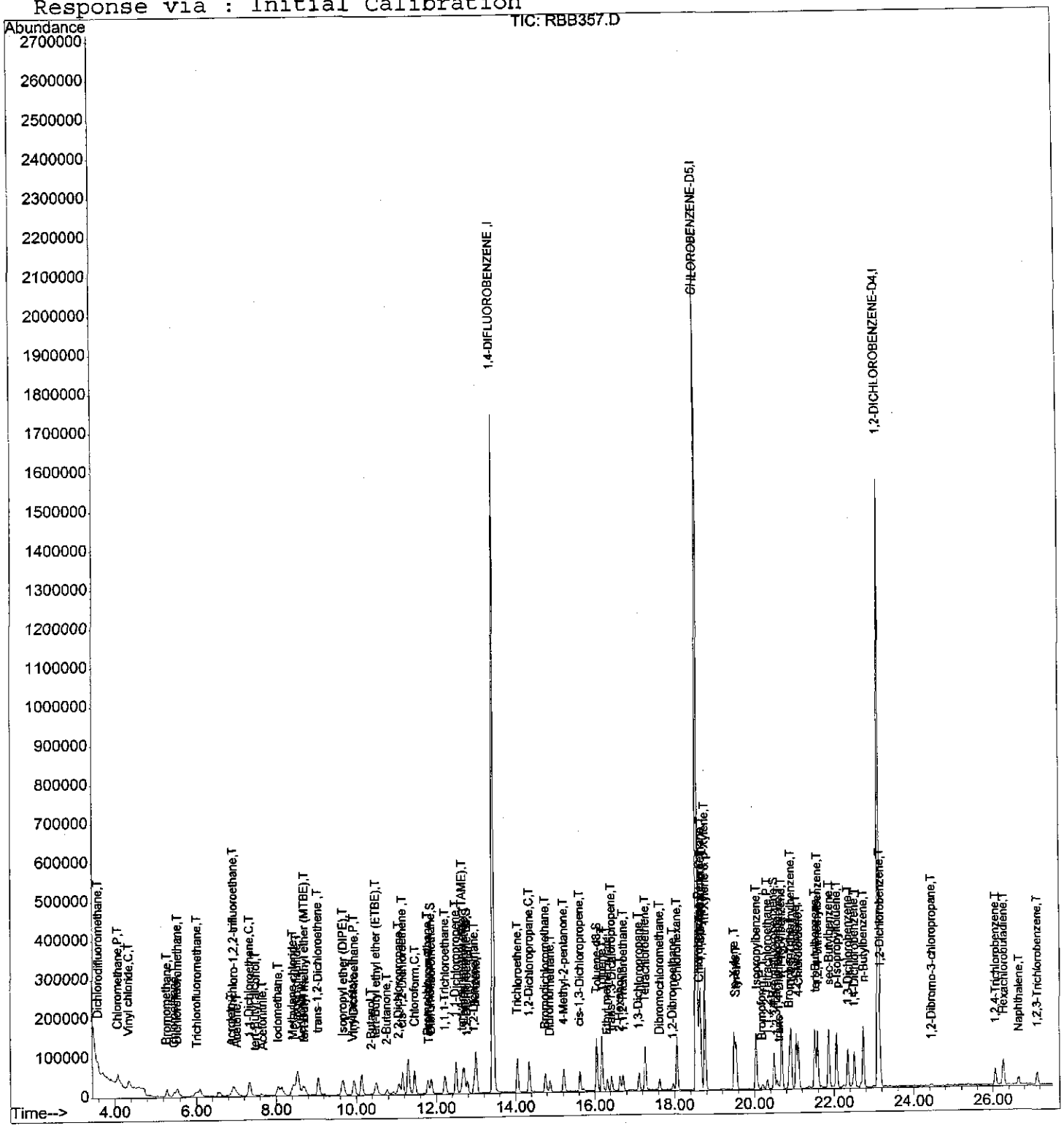
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB357.D
Acq On : 16 Feb 2011 4:18 pm
Sample : VO03B162 0.5ppb
Misc : 0.5ppb 8260/2.5ppb TBA-KET/2.5ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SC 2/18/11

2219

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB358.D
Acq On : 16 Feb 2011 4:54 pm
Sample : VO03B163 1.0ppb
Misc : 1.0ppb 8260/5.0ppb TBA-KET/5.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1751430	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1558622	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	603355	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	71226	0.95 ug/l	0.00
Spiked Amount 10.000			Recovery	= 9.50%	
38) 1,2-Dichloroethane-d4	12.79	65	71878	0.98 ug/l	0.01
Spiked Amount 10.000			Recovery	= 9.80%	
53) Toluene-d8	16.05	98	234906	0.99 ug/l	0.00
Spiked Amount 10.000			Recovery	= 9.90%	
74) 4-Bromofluorobenzene	20.49	95	89763	0.97 ug/l	0.00
Spiked Amount 10.000			Recovery	= 9.70%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	72396	0.97 ug/l	98
4) Chloromethane	4.08	50	67658	0.89 ug/l	88
5) Vinyl chloride	4.35	62	59783	0.89 ug/l	91
6) Bromomethane	5.29	94	46006	0.93 ug/l	91
7) Chloroethane	5.45	64	27716	0.94 ug/l	93
8) Dichlorofluoromethane	5.54	67	97428	0.81 ug/l	96
9) Trichlorofluoromethane	6.00	101	86847	0.93 ug/l	100
10) Acrolein	6.88	56	6030	3.98 ug/l	87
11) 1,1,2-Trichloro-1,2,2-trif	6.95	151	37185	0.98 ug/l	99
12) Acetone	7.03	43	35700	4.91 ug/l	98
13) 1,1-Dichloroethene	7.34	61	112866	1.01 ug/l	96
14) tert-Butyl alcohol	7.46	59	8774	4.26 ug/l	62
15) Acetonitrile	7.61	39	5854	12.53 ug/l #	69
17) Iodomethane	8.06	142	104279	0.97 ug/l	99
18) Methylene chloride	8.43	49	76906	1.01 ug/l	99
19) Carbon disulfide	8.50	76	180335	0.93 ug/l	100
20) Acrylonitrile	8.67	53	24797	4.25 ug/l	94
21) tert-Butyl methyl ether (M	8.71	73	73311	0.90 ug/l	91
22) trans-1,2-Dichloroethene	9.05	61	102464	0.97 ug/l	98
23) Isopropyl ether (DIPE)	9.66	45	179228	0.92 ug/l	99
24) Vinyl acetate	9.92	43	51086	0.89 ug/l	99
25) 1,1-Dichloroethane	9.95	63	122006	1.01 ug/l	98
26) 2-Butanol	10.36	45	6154	4.58 ug/l #	59
27) tert-Butyl ethyl ether (ET	10.50	59	122089	0.90 ug/l	100
28) 2-Butanone	10.75	43	48699	4.39 ug/l	99
29) 2,2-Dichloropropane	11.06	77	65390	1.03 ug/l	96
30) cis-1,2-Dichloroethene	11.17	96	66257	0.97 ug/l	96

(#) = qualifier out of range (m) = manual integration

gw 2/18/11

2220

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB358.D
Acq On : 16 Feb 2011 4:54 pm
Sample : VO03B163 1.0ppb
Misc : 1.0ppb 8260/5.0ppb TBA-KET/5.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.47	83	143188	0.99 ug/l	98
32) Bromochloromethane	11.78	49	48736	0.91 ug/l	96
33) Tetrahydrofuran	11.84	42	7203	1.13 ug/l	92
35) 1,1,1-Trichloroethane	12.23	97	109521	0.93 ug/l	99
37) tert-Amyl methyl ether (TA	12.66	87	20173	0.88 ug/l #	87
40) 1,1-Dichloropropene	12.49	110	31018	1.00 ug/l	98
41) Carbon tetrachloride	12.70	119	106082	0.95 ug/l	98
42) 1,2-Dichloroethane	12.96	62	76705	0.91 ug/l	100
43) Benzene	13.00	78	249901	1.01 ug/l	99
44) Trichloroethene	14.06	130	66868	0.98 ug/l	99
46) 1,2-Dichloropropane	14.34	63	58112	0.96 ug/l	98
47) 1,4-Dioxane	14.76	88	4176	23.74 ug/l	74
48) Bromodichloromethane	14.76	83	89138	0.91 ug/l	94
49) Dibromomethane	14.86	93	34526	0.95 ug/l	97
51) 4-Methyl-2-pentanone	15.22	43	134785	4.44 ug/l	99
52) cis-1,3-Dichloropropene	15.62	75	79181	0.87 ug/l	97
54) Toluene	16.19	91	275496	1.01 ug/l	100
55) Ethyl methacrylate	16.32	69	35764	0.86 ug/l	98
56) trans-1,3-Dichloropropene	16.43	75	58675	0.92 ug/l	94
57) 2-Hexanone	16.63	43	88273	4.34 ug/l	96
58) 1,1,2-Trichloroethane	16.71	97	32447	0.94 ug/l	94
59) 1,3-Dichloropropane	17.11	76	62205	0.96 ug/l	99
60) Tetrachloroethene	17.27	164	66470	1.01 ug/l	98
61) Dibromochloromethane	17.63	129	37647	0.85 ug/l	99
62) 1,2-Dibromoethane	17.96	107	37165	0.93 ug/l	99
63) 1-Chlorohexane	18.06	91	116291	0.97 ug/l	98
64) Chlorobenzene	18.61	112	156325	0.98 ug/l	93
65) 1,1,1,2-Tetrachloroethane	18.66	131	55168	0.95 ug/l	97
66) Ethylbenzene	18.64	91	344168	0.98 ug/l	99
67) m-Xylene & p-Xylene	18.76	91	540515	1.99 ug/l	99
68) o-Xylene	19.49	91	267140	1.00 ug/l	99
69) Styrene	19.54	104	164762	0.96 ug/l	99
71) Isopropylbenzene	20.03	105	289907	0.96 ug/l	99
72) Bromoform	20.19	173	17881	0.97 ug/l	97
73) 1,1,2,2-Tetrachloroethane	20.33	83	36985	0.93 ug/l	99
75) 1,2,3-Trichloropropane	20.58	110	8902	0.94 ug/l	94
76) trans-1,4-Dichloro-2-buten	20.61	53	5384	1.12 ug/l	96
77) n-Propylbenzene	20.68	91	406483	0.96 ug/l	99
78) Bromobenzene	20.88	156	66434	1.00 ug/l	92
79) 1,3,5-Trimethylbenzene	20.92	105	255830	0.98 ug/l	99
80) 2-Chlorotoluene	21.06	91	270311	1.05 ug/l	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB358.D
Acq On : 16 Feb 2011 4:54 pm
Sample : VO03B163 1.0ppb
Misc : 1.0ppb 8260/5.0ppb TBA-KET/5.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.12	91	193470	0.90 ug/l	90
82) tert-Butylbenzene	21.53	134	42511	0.97 ug/l	98
83) 1,2,4-Trimethylbenzene	21.59	105	245394	0.98 ug/l	97
84) sec-Butylbenzene	21.88	105	318557	0.95 ug/l	99
85) p-Isopropyltoluene	22.07	119	230855	0.93 ug/l	100
86) 1,3-Dichlorobenzene	22.35	146	108657	0.96 ug/l	97
87) 1,4-Dichlorobenzene	22.52	146	101467	0.95 ug/l	98
88) n-Butylbenzene	22.74	91	258567	0.91 ug/l	99
89) 1,2-Dichlorobenzene	23.16	146	86587	0.96 ug/l	93
90) 1,2-Dibromo-3-chloropropan	24.44	157	3682	0.82 ug/l	95
91) 1,2,4-Trichlorobenzene	26.06	180	40728	0.82 ug/l	98
92) Hexachlorobutadiene	26.27	225	42687	0.94 ug/l	96
93) Naphthalene	26.66	128	46525	0.80 ug/l	99
94) 1,2,3-Trichlorobenzene	27.13	180	30177	0.82 ug/l	95

SU
2/18/11

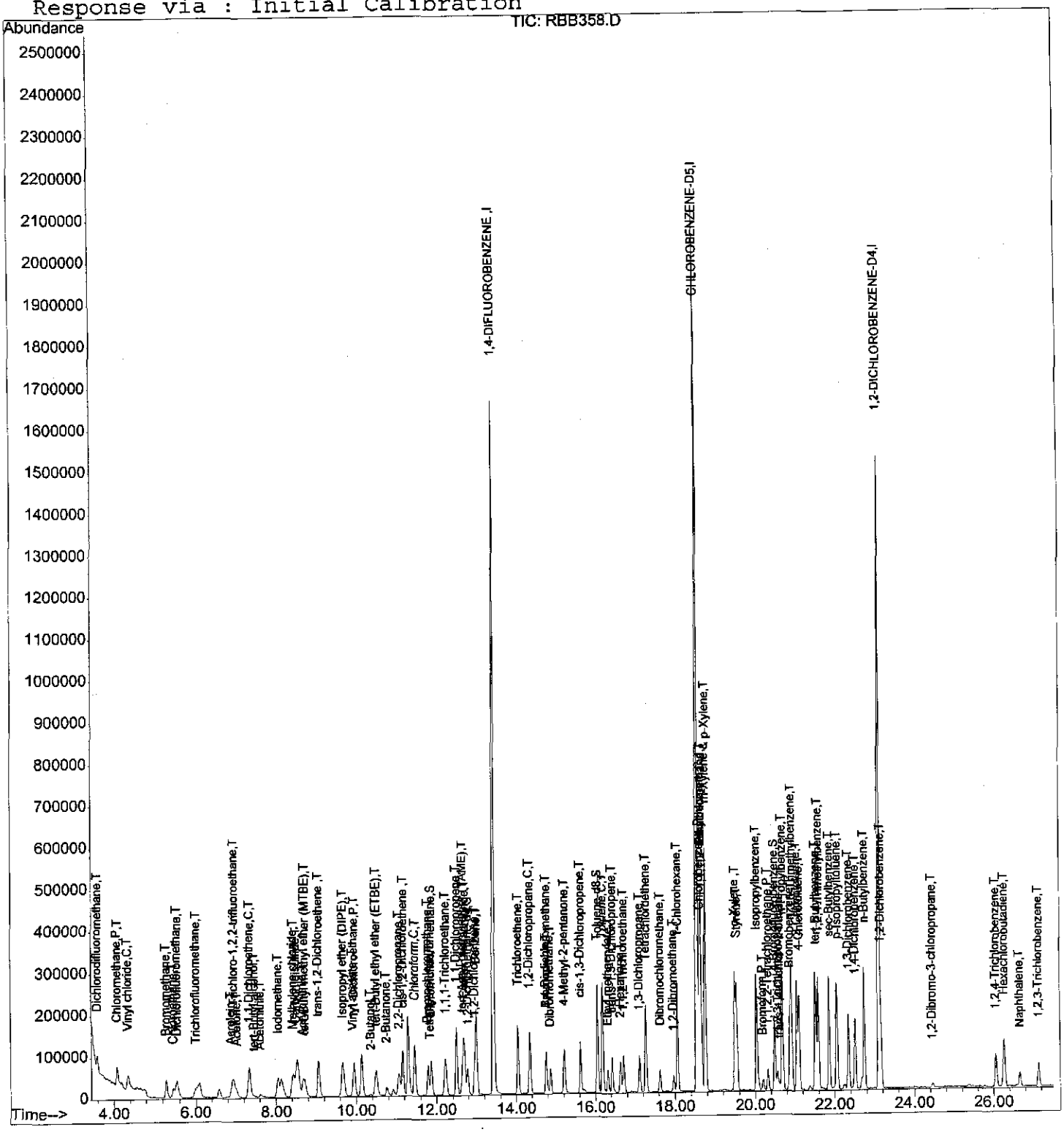
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB358.D
Acq On : 16 Feb 2011 4:54 pm
Sample : VO03B163 1.0ppb
Misc : 1.0ppb 8260/5.0ppb TBA-KET/5.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 5
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SS 2/18/11

2223

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB359.D
Acq On : 16 Feb 2011 5:32 pm
Sample : VO03B164 2.0ppb
Misc : 2.0ppb 8260/10.0ppb TBA-KET/10.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 6
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.44	114	1788379	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.56	117	1630123	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.12	152	642418	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.88	111	151969	1.98 ug/l	0.00
Spiked Amount 10.000			Recovery	= 19.80%	
38) 1,2-Dichloroethane-d4	12.78	65	151200	2.01 ug/l	0.00
Spiked Amount 10.000			Recovery	= 20.10%	
53) Toluene-d8	16.06	98	511894	2.07 ug/l	0.00
Spiked Amount 10.000			Recovery	= 20.70%	
74) 4-Bromofluorobenzene	20.50	95	192567	1.95 ug/l	0.00
Spiked Amount 10.000			Recovery	= 19.50%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.60	85	152651	2.01 ug/l	98
4) Chloromethane	4.09	50	139576	1.80 ug/l	95
5) Vinyl chloride	4.36	62	131936	1.92 ug/l	90
6) Bromomethane	5.29	94	87366	1.73 ug/l	97
7) Chloroethane	5.47	64	55087	1.84 ug/l	94
8) Dichlorofluoromethane	5.53	67	229340	1.86 ug/l	98
9) Trichlorofluoromethane	6.01	101	183911	1.92 ug/l	100
10) Acrolein	6.89	56	13583	8.79 ug/l	99
11) 1,1,2-Trichloro-1,2,2-trif	6.96	151	78264	2.01 ug/l	96
12) Acetone	7.01	43	69701	9.39 ug/l	99
13) 1,1-Dichloroethene	7.35	61	231275	2.03 ug/l	99
14) tert-Butyl alcohol	7.48	59	19971	9.50 ug/l	86
15) Acetonitrile	7.62	39	9131	19.14 ug/l #	91
17) Iodomethane	8.06	142	205957	1.87 ug/l	99
18) Methylene chloride	8.44	49	151396	1.94 ug/l	97
19) Carbon disulfide	8.51	76	379471	1.92 ug/l	99
20) Acrylonitrile	8.67	53	59708	10.02 ug/l	98
21) tert-Butyl methyl ether (M	8.72	73	166215	1.99 ug/l	93
22) trans-1,2-Dichloroethene	9.06	61	220591	2.04 ug/l	98
23) Isopropyl ether (DIPE)	9.67	45	406160	2.04 ug/l	98
24) Vinyl acetate	9.91	43	109942	1.88 ug/l	98
25) 1,1-Dichloroethane	9.95	63	251055	2.03 ug/l	98
26) 2-Butanol	10.36	45	11670	8.50 ug/l	92
27) tert-Butyl ethyl ether (ET	10.51	59	281021	2.03 ug/l	100
28) 2-Butanone	10.76	43	107514	9.49 ug/l	98
29) 2,2-Dichloropropane	11.07	77	132390	2.05 ug/l	97
30) cis-1,2-Dichloroethene	11.16	96	139898	2.01 ug/l	99

(#) = qualifier out of range (m) = manual integration

SW 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB359.D
Acq On : 16 Feb 2011 5:32 pm
Sample : VO03B164 2.0ppb
Misc : 2.0ppb 8260/10.0ppb TBA-KET/10.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 6
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.46	83	299108	2.02 ug/l	99
32) Bromochloromethane	11.79	49	112178	2.06 ug/l	98
33) Tetrahydrofuran	11.83	42	15090	2.32 ug/l	93
35) 1,1,1-Trichloroethane	12.22	97	230129	1.92 ug/l	99
37) tert-Amyl methyl ether (TA	12.66	87	48230	2.06 ug/l	98
40) 1,1-Dichloropropene	12.50	110	63180	1.95 ug/l	98
41) Carbon tetrachloride	12.71	119	221397	1.89 ug/l	99
42) 1,2-Dichloroethane	12.96	62	181652	2.07 ug/l	98
43) Benzene	13.01	78	517149	2.00 ug/l	99
44) Trichloroethene	14.05	130	136708	1.92 ug/l	98
46) 1,2-Dichloropropane	14.35	63	128079	2.03 ug/l	98
47) 1,4-Dioxane	14.75	88	6879	37.38 ug/l	86
48) Bromodichloromethane	14.76	83	199688	1.96 ug/l	100
49) Dibromomethane	14.87	93	75755	1.99 ug/l	98
51) 4-Methyl-2-pentanone	15.23	43	304341	9.58 ug/l	99
52) cis-1,3-Dichloropropene	15.63	75	179735	1.89 ug/l	96
54) Toluene	16.19	91	579509	2.02 ug/l	98
55) Ethyl methacrylate	16.33	69	90321	2.09 ug/l	93
56) trans-1,3-Dichloropropene	16.43	75	149229	2.23 ug/l	100
57) 2-Hexanone	16.63	43	198793	9.34 ug/l	99
58) 1,1,2-Trichloroethane	16.71	97	74321	2.05 ug/l	97
59) 1,3-Dichloropropane	17.12	76	142598	2.11 ug/l	98
60) Tetrachloroethene	17.28	164	138876	2.02 ug/l	98
61) Dibromochloromethane	17.64	129	94640	2.04 ug/l	98
62) 1,2-Dibromoethane	17.97	107	83904	2.00 ug/l	98
63) 1-Chlorohexane	18.07	91	254220	2.02 ug/l	98
64) Chlorobenzene	18.62	112	335908	2.02 ug/l	96
65) 1,1,1,2-Tetrachloroethane	18.67	131	119181	1.96 ug/l	99
66) Ethylbenzene	18.65	91	745992	2.03 ug/l	100
67) m-Xylene & p-Xylene	18.77	91	1173335	4.14 ug/l	99
68) o-Xylene	19.50	91	577030	2.06 ug/l	99
69) Styrene	19.54	104	365978	2.04 ug/l	98
71) Isopropylbenzene	20.04	105	646831	2.02 ug/l	99
72) Bromoform	20.20	173	46487	1.92 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.32	83	86286	2.04 ug/l	93
75) 1,2,3-Trichloropropane	20.57	110	20555	2.03 ug/l	88
76) trans-1,4-Dichloro-2-buten	20.62	53	14483	1.97 ug/l	95
77) n-Propylbenzene	20.69	91	902769	2.01 ug/l	100
78) Bromobenzene	20.88	156	138840	1.96 ug/l	99
79) 1,3,5-Trimethylbenzene	20.93	105	568873	2.05 ug/l	99
80) 2-Chlorotoluene	21.06	91	511826	1.86 ug/l	99

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB359.D
Acq On : 16 Feb 2011 5:32 pm
Sample : VO03B164 2.0ppb
Misc : 2.0ppb 8260/10.0ppb TBA-KET/10.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 6
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.11	91	499677	2.19 ug/l	99
82) tert-Butylbenzene	21.52	134	97861	2.09 ug/l	98
83) 1,2,4-Trimethylbenzene	21.60	105	529925	2.00 ug/l	99
84) sec-Butylbenzene	21.87	105	715056	2.01 ug/l	99
85) p-Isopropyltoluene	22.06	119	533592	2.02 ug/l	98
86) 1,3-Dichlorobenzene	22.34	146	242387	2.01 ug/l	99
87) 1,4-Dichlorobenzene	22.52	146	229868	2.02 ug/l	99
88) n-Butylbenzene	22.75	91	618433	2.04 ug/l	100
89) 1,2-Dichlorobenzene	23.16	146	194625	2.03 ug/l	96
90) 1,2-Dibromo-3-chloropropan	24.46	157	8987	1.89 ug/l	97
91) 1,2,4-Trichlorobenzene	26.07	180	102964	1.96 ug/l	98
92) Hexachlorobutadiene	26.27	225	101951	2.11 ug/l	99
93) Naphthalene	26.66	128	116908	1.90 ug/l	100
94) 1,2,3-Trichlorobenzene	27.14	180	79844	2.03 ug/l	98

SG 2/18/11

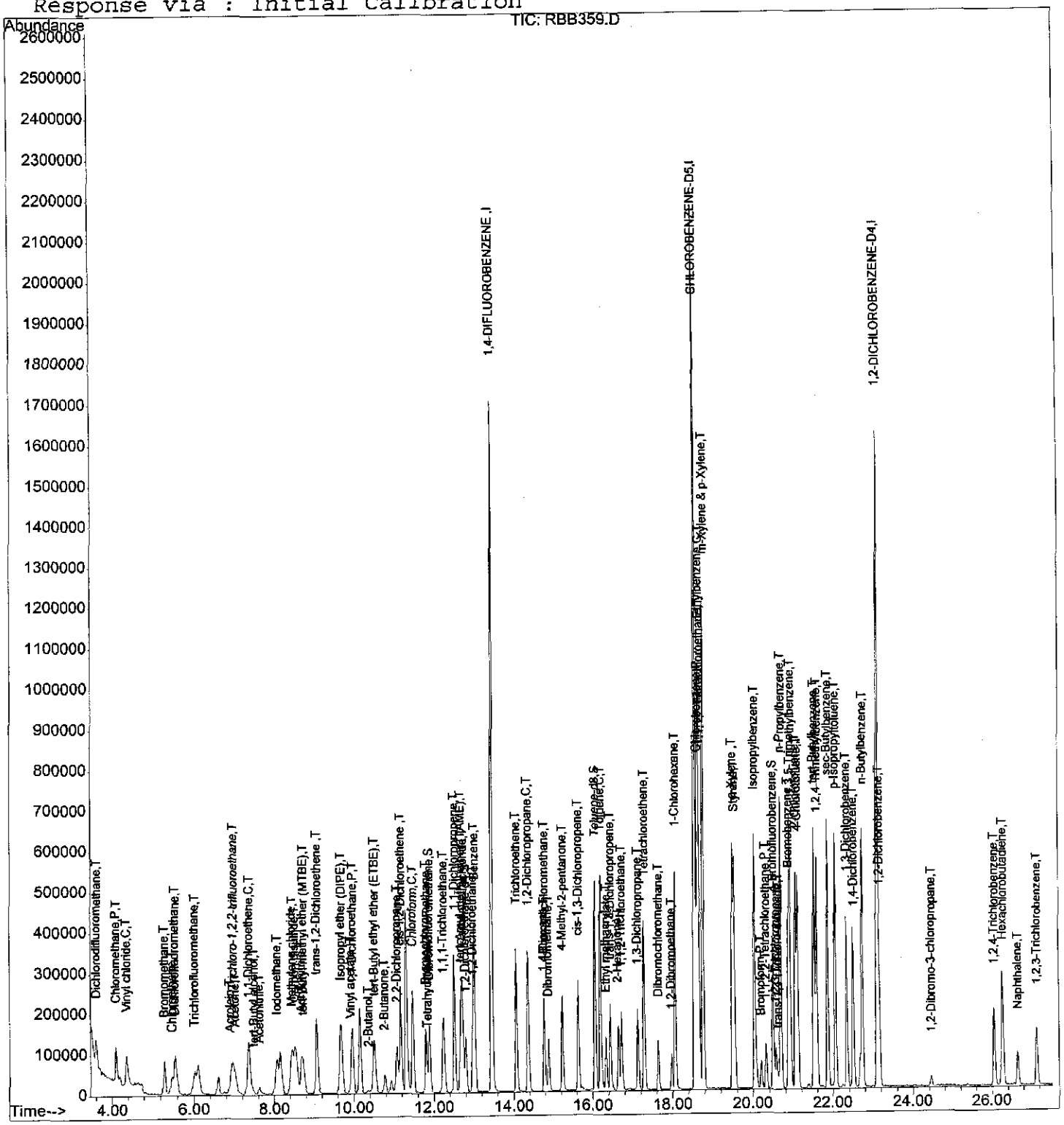
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB359.D
Acq On : 16 Feb 2011 5:32 pm
Sample : VO03B164 2.0ppb
Misc : 2.0ppb 8260/10.0ppb TBA-KET/10.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:35 2011

Vial: 6
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Su 2/18/11

2227

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB360.D
Acq On : 16 Feb 2011 6:08 pm
Sample : VO03B165 5.0ppb
Misc : 5.0ppb 8260/25.0ppb TBA-KET/25.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1738845	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1587088	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	619707	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	391657	5.25 ug/l	0.00
Spiked Amount 10.000			Recovery	= 52.50%	
38) 1,2-Dichloroethane-d4	12.78	65	375932	5.14 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.40%	
53) Toluene-d8	16.05	98	1231654	5.12 ug/l	0.00
Spiked Amount 10.000			Recovery	= 51.20%	
74) 4-Bromofluorobenzene	20.49	95	479160	5.03 ug/l	0.00
Spiked Amount 10.000			Recovery	= 50.30%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	364640	4.94 ug/l	98
4) Chloromethane	4.08	50	371758	4.93 ug/l	100
5) Vinyl chloride	4.35	62	322323	4.83 ug/l	98
6) Bromomethane	5.29	94	247064	5.03 ug/l	98
7) Chloroethane	5.45	64	150511	5.17 ug/l	85
8) Dichlorofluoromethane	5.54	67	579648	4.83 ug/l	99
9) Trichlorofluoromethane	6.00	101	463345	4.98 ug/l	100
10) Acrolein	6.89	56	32704	21.76 ug/l	93
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	189465	5.02 ug/l	97
12) Acetone	7.01	43	174805	24.21 ug/l	94
13) 1,1-Dichloroethene	7.34	61	559119	5.04 ug/l	99
14) tert-Butyl alcohol	7.46	59	44820	21.93 ug/l	84
15) Acetonitrile	7.61	39	23170	49.96 ug/l #	78
17) Iodomethane	8.06	142	539115	5.04 ug/l	99
18) Methylene chloride	8.43	49	372893	4.92 ug/l	99
19) Carbon disulfide	8.50	76	987310	5.13 ug/l	100
20) Acrylonitrile	8.67	53	145466	25.10 ug/l	97
21) tert-Butyl methyl ether (M	8.71	73	393229	4.85 ug/l	99
22) trans-1,2-Dichloroethene	9.05	61	517860	4.92 ug/l	99
23) Isopropyl ether (DIPE)	9.66	45	925898	4.79 ug/l	99
24) Vinyl acetate	9.92	43	266250	4.68 ug/l	99
25) 1,1-Dichloroethane	9.95	63	592953	4.92 ug/l	99
26) 2-Butanol	10.35	45	35688	26.74 ug/l	87
27) tert-Butyl ethyl ether (ET	10.50	59	656549	4.87 ug/l	100
28) 2-Butanone	10.75	43	261791	23.77 ug/l	98
29) 2,2-Dichloropropane	11.06	77	333546	5.31 ug/l	98
30) cis-1,2-Dichloroethene	11.17	96	344277	5.08 ug/l	98

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB360.D
Acq On : 16 Feb 2011 6:08 pm
Sample : VO03B165 5.0ppb
Misc : 5.0ppb 8260/25.0ppb TBA-KET/25.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	725042	5.03 ug/l	99
32) Bromochloromethane	11.78	49	269811	5.10 ug/l	98
33) Tetrahydrofuran	11.84	42	29008	4.59 ug/l	98
35) 1,1,1-Trichloroethane	12.21	97	596673	5.12 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	107760	4.73 ug/l	97
40) 1,1-Dichloropropene	12.49	110	157448	4.98 ug/l	97
41) Carbon tetrachloride	12.70	119	568150	4.99 ug/l	99
42) 1,2-Dichloroethane	12.96	62	415055	4.86 ug/l	98
43) Benzene	13.00	78	1229089	4.87 ug/l	99
44) Trichloroethene	14.06	130	336466	4.87 ug/l	98
46) 1,2-Dichloropropane	14.34	63	307455	5.00 ug/l	99
47) 1,4-Dioxane	14.74	88	15205	84.87 ug/l	99
48) Bromodichloromethane	14.76	83	489080	4.93 ug/l	100
49) Dibromomethane	14.86	93	182692	4.94 ug/l	99
51) 4-Methyl-2-pentanone	15.20	43	757155	24.47 ug/l	99
52) cis-1,3-Dichloropropene	15.62	75	447360	4.84 ug/l	98
54) Toluene	16.19	91	1395510	5.01 ug/l	99
55) Ethyl methacrylate	16.32	69	211190	5.01 ug/l	95
56) trans-1,3-Dichloropropene	16.42	75	356801	5.46 ug/l	96
57) 2-Hexanone	16.63	43	486413	23.48 ug/l	99
58) 1,1,2-Trichloroethane	16.71	97	172712	4.90 ug/l	99
59) 1,3-Dichloropropane	17.11	76	322794	4.91 ug/l	99
60) Tetrachloroethene	17.27	164	326966	4.89 ug/l	100
61) Dibromochloromethane	17.63	129	239213	5.29 ug/l	99
62) 1,2-Dibromoethane	17.96	107	201041	4.92 ug/l	98
63) 1-Chlorohexane	18.06	91	638154	5.21 ug/l	99
64) Chlorobenzene	18.61	112	811500	5.01 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.66	131	301883	5.09 ug/l	98
66) Ethylbenzene	18.64	91	1846592	5.16 ug/l	99
67) m-Xylene & p-Xylene	18.76	91	2791900	10.11 ug/l	100
68) o-Xylene	19.49	91	1379190	5.05 ug/l	99
69) Styrene	19.54	104	901443	5.15 ug/l	99
71) Isopropylbenzene	20.03	105	1559517	5.04 ug/l	99
72) Bromoform	20.21	173	118711	4.56 ug/l	98
73) 1,1,2,2-Tetrachloroethane	20.33	83	202840	4.98 ug/l	99
75) 1,2,3-Trichloropropane	20.56	110	47079	4.82 ug/l	92
76) trans-1,4-Dichloro-2-buten	20.61	53	38991	4.50 ug/l	94
77) n-Propylbenzene	20.68	91	2217835	5.13 ug/l	100
78) Bromobenzene	20.88	156	336940	4.92 ug/l	100
79) 1,3,5-Trimethylbenzene	20.92	105	1340216	5.02 ug/l	99
80) 2-Chlorotoluene	21.06	91	1443112	5.44 ug/l	90

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB360.D
Acq On : 16 Feb 2011 6:08 pm
Sample : VO03B165 5.0ppb
Misc : 5.0ppb 8260/25.0ppb TBA-KET/25.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	986577	4.48 ug/l	87
82) tert-Butylbenzene	21.52	134	227506	5.03 ug/l	96
83) 1,2,4-Trimethylbenzene	21.59	105	1293259	5.05 ug/l	99
84) sec-Butylbenzene	21.86	105	1758849	5.12 ug/l	99
85) p-Isopropyltoluene	22.07	119	1296197	5.09 ug/l	99
86) 1,3-Dichlorobenzene	22.35	146	588915	5.06 ug/l	99
87) 1,4-Dichlorobenzene	22.52	146	543954	4.96 ug/l	100
88) n-Butylbenzene	22.74	91	1458964	4.98 ug/l	98
89) 1,2-Dichlorobenzene	23.16	146	461527	4.99 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.45	157	22398	4.87 ug/l	100
91) 1,2,4-Trichlorobenzene	26.06	180	254285	5.01 ug/l	100
92) Hexachlorobutadiene	26.27	225	240149	5.14 ug/l	99
93) Naphthalene	26.65	128	276702	4.65 ug/l	100
94) 1,2,3-Trichlorobenzene	27.13	180	184933	4.88 ug/l	98

SW 2/18/11

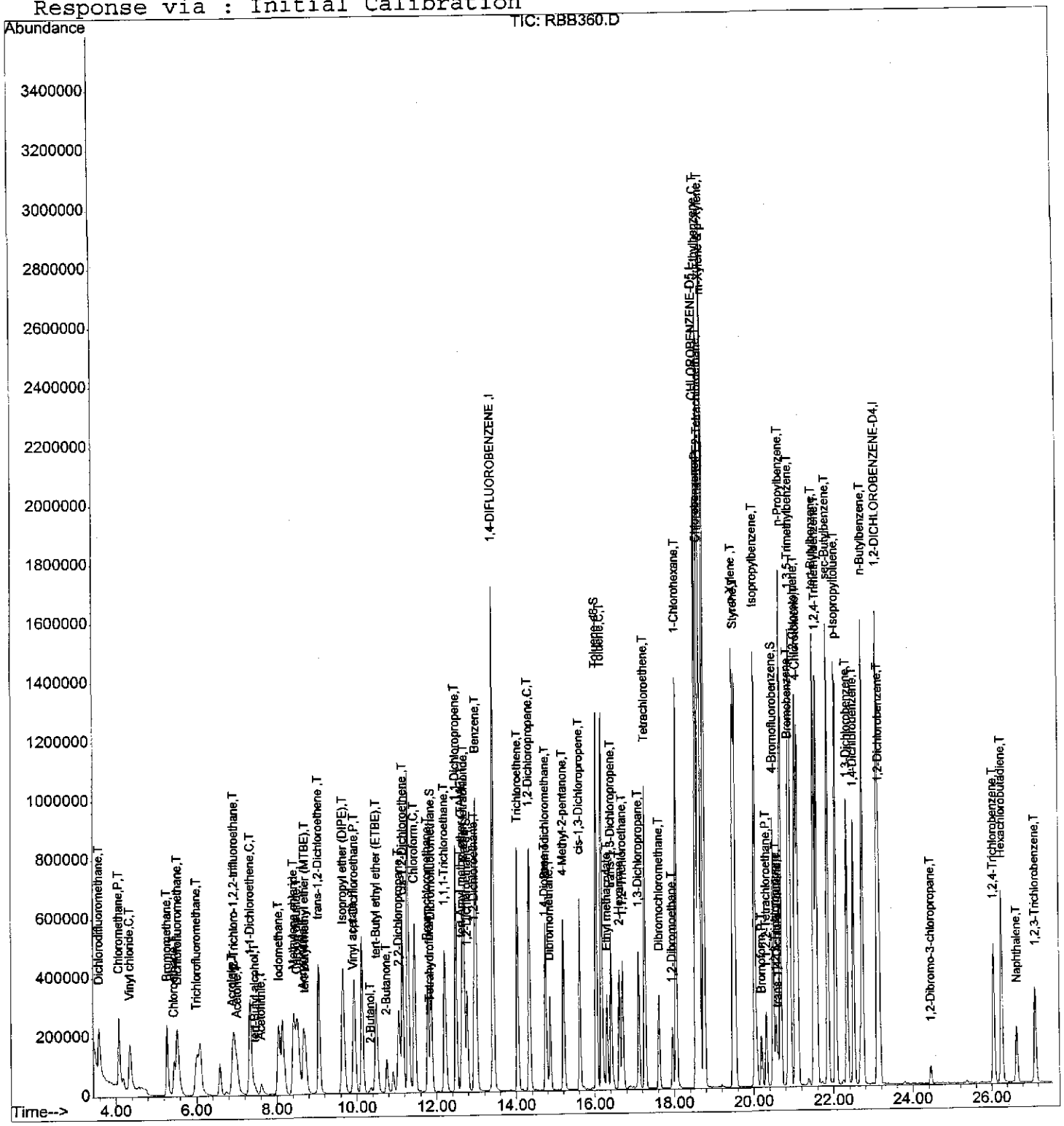
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB360.D
Acq On : 16 Feb 2011 6:08 pm
Sample : VO03B165 5.0ppb
Misc : 5.0ppb 8260/25.0ppb TBA-KET/25.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 7
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2231

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB361.D
Acq On : 16 Feb 2011 6:45 pm
Sample : VO03B166 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1883214	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1714888	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.11	152	687853	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	769027	9.51 ug/l	0.00
Spiked Amount 10.000			Recovery	= 95.10%	
38) 1,2-Dichloroethane-d4	12.78	65	736188	9.29 ug/l	0.00
Spiked Amount 10.000			Recovery	= 92.90%	
53) Toluene-d8	16.05	98	2426584	9.34 ug/l	0.00
Spiked Amount 10.000			Recovery	= 93.40%	
74) 4-Bromofluorobenzene	20.49	95	952475	9.00 ug/l	0.00
Spiked Amount 10.000			Recovery	= 90.00%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	885414	11.08 ug/l	100
4) Chloromethane	4.08	50	882764	10.81 ug/l	100
5) Vinyl chloride	4.33	62	777077	10.76 ug/l	100
6) Bromomethane	5.29	94	579809	10.90 ug/l	100
7) Chloroethane	5.45	64	356482	11.30 ug/l	100
8) Dichlorofluoromethane	5.54	67	1269784	9.78 ug/l	100
9) Trichlorofluoromethane	6.00	101	1126997	11.19 ug/l	100
10) Acrolein	6.88	56	70340	43.21 ug/l	100
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	396588	9.69 ug/l	100
12) Acetone	7.00	43	342053	43.74 ug/l	100
13) 1,1-Dichloroethene	7.34	61	1195195	9.94 ug/l	100
14) tert-Butyl alcohol	7.45	59	94246	42.57 ug/l	100
15) Acetonitrile	7.60	39	41023	81.67 ug/l	100
17) Iodomethane	8.06	142	1128053	9.73 ug/l	100
18) Methylene chloride	8.43	49	767315	9.34 ug/l	100
19) Carbon disulfide	8.50	76	1880919	9.03 ug/l	100
20) Acrylonitrile	8.65	53	306803	48.88 ug/l	100
21) tert-Butyl methyl ether (M	8.70	73	834200	9.51 ug/l	100
22) trans-1,2-Dichloroethene	9.05	61	1135463	9.96 ug/l	100
23) Isopropyl ether (DIPE)	9.66	45	2048063	9.79 ug/l	100
24) Vinyl acetate	9.90	43	644200	10.46 ug/l	100
25) 1,1-Dichloroethane	9.95	63	1282027	9.83 ug/l	100
26) 2-Butanol	10.35	45	67880	46.97 ug/l	100
27) tert-Butyl ethyl ether (ET	10.48	59	1385690	9.48 ug/l	100
28) 2-Butanone	10.75	43	570908	47.86 ug/l	100
29) 2,2-Dichloropropane	11.06	77	698386	10.27 ug/l	100
30) cis-1,2-Dichloroethene	11.15	96	715860	9.75 ug/l	100

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

2232

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB361.D
Acq On : 16 Feb 2011 6:45 pm
Sample : VO03B166 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	1511300	9.68 ug/l	100
32) Bromochloromethane	11.78	49	542981	9.47 ug/l	100
33) Tetrahydrofuran	11.82	42	60739	8.87 ug/l	100
35) 1,1,1-Trichloroethane	12.21	97	1261979	10.01 ug/l	100
37) tert-Amyl methyl ether (TA	12.66	87	229627	9.31 ug/l	100
40) 1,1-Dichloropropene	12.49	110	327736	9.60 ug/l	100
41) Carbon tetrachloride	12.70	119	1243879	10.11 ug/l	100
42) 1,2-Dichloroethane	12.96	62	879393	9.52 ug/l	100
43) Benzene	13.00	78	2526100	9.26 ug/l	100
44) Trichloroethene	14.04	130	713076	9.54 ug/l	100
46) 1,2-Dichloropropane	14.34	63	639717	9.63 ug/l	100
47) 1,4-Dioxane	14.74	88	31402	162.22 ug/l	100
48) Bromodichloromethane	14.76	83	1059145	9.87 ug/l	100
49) Dibromomethane	14.86	93	379851	9.50 ug/l	100
51) 4-Methyl-2-pentanone	15.20	43	1586350	47.46 ug/l	100
52) cis-1,3-Dichloropropene	15.62	75	1004014	10.06 ug/l	100
54) Toluene	16.17	91	2927231	9.72 ug/l	100
55) Ethyl methacrylate	16.32	69	453794	9.97 ug/l	100
56) trans-1,3-Dichloropropene	16.43	75	788860	11.18 ug/l	100
57) 2-Hexanone	16.62	43	1082716	48.37 ug/l	100
58) 1,1,2-Trichloroethane	16.71	97	366292	9.61 ug/l	100
59) 1,3-Dichloropropane	17.11	76	672289	9.46 ug/l	100
60) Tetrachloroethene	17.27	164	698792	9.67 ug/l	100
61) Dibromochloromethane	17.62	129	540623	11.06 ug/l	100
62) 1,2-Dibromoethane	17.96	107	438665	9.93 ug/l	100
63) 1-Chlorohexane	18.06	91	1313763	9.92 ug/l	100
64) Chlorobenzene	18.61	112	1693591	9.67 ug/l	100
65) 1,1,1,2-Tetrachloroethane	18.66	131	622893	9.72 ug/l	100
66) Ethylbenzene	18.64	91	3790971	9.80 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	5865105	19.66 ug/l	100
68) o-Xylene	19.49	91	2854668	9.67 ug/l	100
69) Styrene	19.54	104	1893800	10.02 ug/l	100
71) Isopropylbenzene	20.03	105	3304283	9.63 ug/l	100
72) Bromoform	20.19	173	275883	9.19 ug/l	100
73) 1,1,2,2-Tetrachloroethane	20.31	83	421289	9.32 ug/l	100
75) 1,2,3-Trichloropropane	20.56	110	99471	9.17 ug/l	100
76) trans-1,4-Dichloro-2-buten	20.61	53	97579	9.45 ug/l	100
77) n-Propylbenzene	20.68	91	4696858	9.78 ug/l	100
78) Bromobenzene	20.88	156	713890	9.39 ug/l	100
79) 1,3,5-Trimethylbenzene	20.92	105	2885796	9.73 ug/l	100
80) 2-Chlorotoluene	21.04	91	2634917	8.95 ug/l	100

(#) = qualifier out of range (m) = manual integration SF 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB361.D
Acq On : 16 Feb 2011 6:45 pm
Sample : VO03B166 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	2526150	10.33 ug/l	100
82) tert-Butylbenzene	21.52	134	491641	9.80 ug/l	100
83) 1,2,4-Trimethylbenzene	21.58	105	2762500	9.72 ug/l	100
84) sec-Butylbenzene	21.86	105	3713608	9.74 ug/l	100
85) p-Isopropyltoluene	22.05	119	2777813	9.83 ug/l	100
86) 1,3-Dichlorobenzene	22.34	146	1255367	9.73 ug/l	100
87) 1,4-Dichlorobenzene	22.50	146	1188548	9.77 ug/l	100
88) n-Butylbenzene	22.74	91	3374992	10.38 ug/l	100
89) 1,2-Dichlorobenzene	23.16	146	988837	9.63 ug/l	100
90) 1,2-Dibromo-3-chloropropan	24.45	157	50555	9.91 ug/l	100
91) 1,2,4-Trichlorobenzene	26.04	180	587488	10.42 ug/l	100
92) Hexachlorobutadiene	26.25	225	534394	10.31 ug/l	100
93) Naphthalene	26.64	128	620450	9.39 ug/l	100
94) 1,2,3-Trichlorobenzene	27.12	180	432647	10.29 ug/l	100

SW 2/18/11

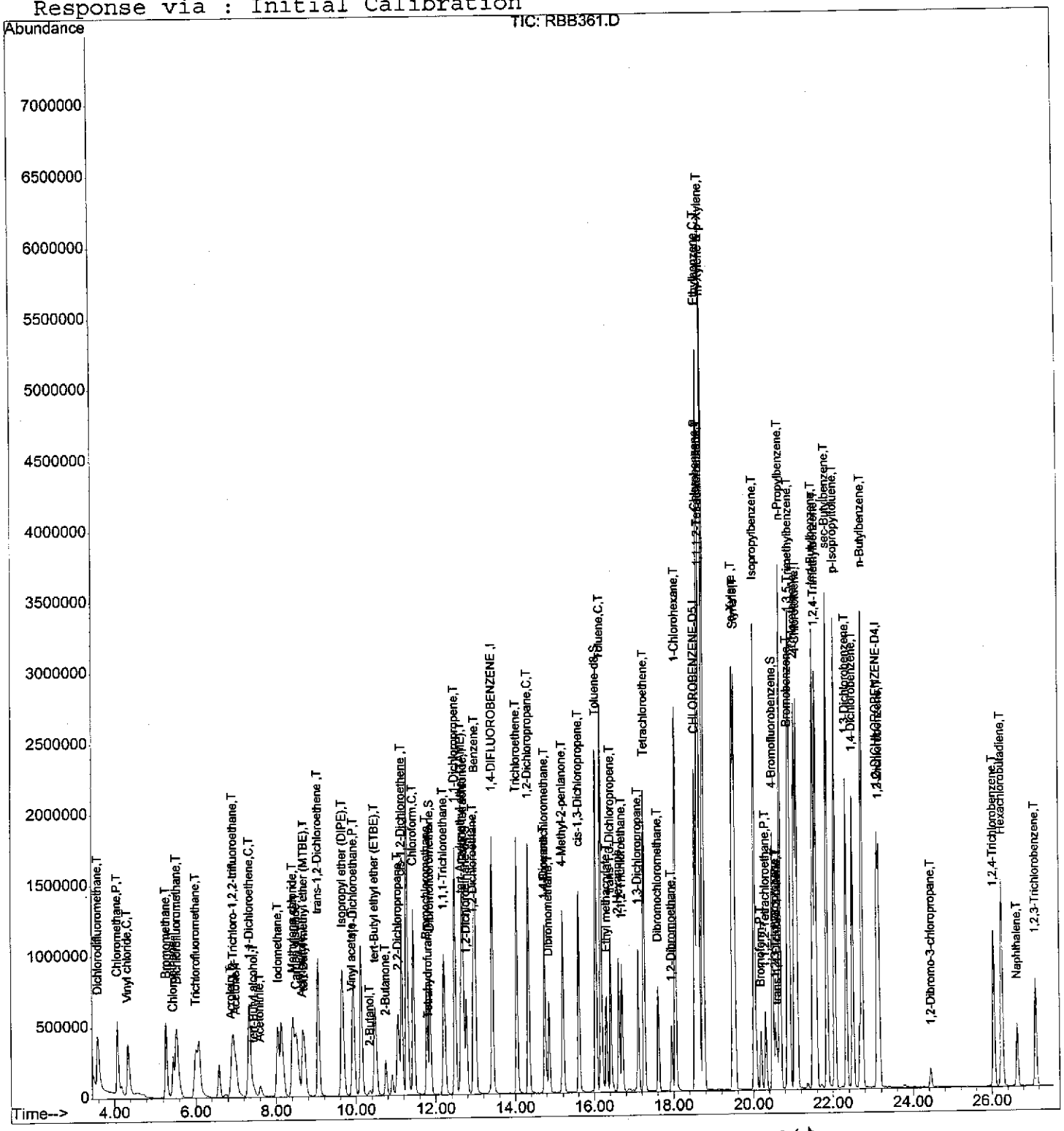
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB361.D
Acq On : 16 Feb 2011 6:45 pm
Sample : VO03B166 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 8
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2235

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB362.D
Acq On : 16 Feb 2011 7:23 pm
Sample : VO03B167 20.0ppb
Misc : 20.0ppb 8260/100.0ppb TBA-KET/100.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.44	114	1826858	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.55	117	1700821	10.00 ug/l	0.00
70) 1,2-DICHLOROBENZENE-D4	23.10	152	687077	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	1586513	20.23 ug/l	0.00
Spiked Amount 10.000			Recovery	= 202.30%	
38) 1,2-Dichloroethane-d4	12.78	65	1495889	19.47 ug/l	0.00
Spiked Amount 10.000			Recovery	= 194.70%	
53) Toluene-d8	16.04	98	4958893	19.24 ug/l	0.00
Spiked Amount 10.000			Recovery	= 192.40%	
74) 4-Bromofluorobenzene	20.48	95	1937265	18.34 ug/l	0.00
Spiked Amount 10.000			Recovery	= 183.40%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.58	85	1615461	20.83 ug/l	99
4) Chloromethane	4.07	50	1686229	21.29 ug/l	100
5) Vinyl chloride	4.34	62	1464752	20.91 ug/l	98
6) Bromomethane	5.28	94	1095727	21.23 ug/l	99
7) Chloroethane	5.46	64	642459	20.99 ug/l	97
8) Dichlorofluoromethane	5.53	67	2548083	20.22 ug/l	99
9) Trichlorofluoromethane	6.01	101	2103568	21.52 ug/l	98
10) Acrolein	6.89	56	142643	90.33 ug/l	94
11) 1,1,2-Trichloro-1,2,2-trif	6.95	151	778395	19.62 ug/l	98
12) Acetone	7.01	43	676885	89.23 ug/l	99
13) 1,1-Dichloroethene	7.33	61	2237893	19.19 ug/l	99
14) tert-Butyl alcohol	7.44	59	198493	92.43 ug/l	93
15) Acetonitrile	7.60	39	82416	169.14 ug/l	93
17) Iodomethane	8.05	142	2222439	19.77 ug/l	99
18) Methylene chloride	8.42	49	1494743	18.76 ug/l	99
19) Carbon disulfide	8.49	76	3994065	19.77 ug/l	99
20) Acrylonitrile	8.66	53	603679	99.15 ug/l	99
21) tert-Butyl methyl ether (M	8.70	73	1663245	19.54 ug/l	100
22) trans-1,2-Dichloroethene	9.05	61	2192213	19.81 ug/l	100
23) Isopropyl ether (DIPE)	9.66	45	4007678	19.74 ug/l	99
24) Vinyl acetate	9.91	43	1218900	20.40 ug/l	100
25) 1,1-Dichloroethane	9.94	63	2497847	19.74 ug/l	99
26) 2-Butanol	10.34	45	150017	107.00 ug/l	99
27) tert-Butyl ethyl ether (ET	10.49	59	2763160	19.50 ug/l	100
28) 2-Butanone	10.74	43	1068854	92.36 ug/l	99
29) 2,2-Dichloropropane	11.06	77	1300456	19.72 ug/l	98
30) cis-1,2-Dichloroethene	11.16	96	1416868	19.89 ug/l	99

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB362.D
Acq On : 16 Feb 2011 7:23 pm
Sample : VO03B167 20.0ppb
Misc : 20.0ppb 8260/100.0ppb TBA-KET/100.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.46	83	2973831	19.63 ug/l	99
32) Bromochloromethane	11.79	49	1090206	19.61 ug/l	99
33) Tetrahydrofuran	11.81	42	114890	17.29 ug/l	98
35) 1,1,1-Trichloroethane	12.22	97	2481828	20.29 ug/l	99
37) tert-Amyl methyl ether (TA	12.65	87	457034	19.11 ug/l	98
40) 1,1-Dichloropropene	12.50	110	661040	19.52 ug/l	99
41) Carbon tetrachloride	12.69	119	2441464	20.02 ug/l	98
42) 1,2-Dichloroethane	12.95	62	1775802	19.39 ug/l	100
43) Benzene	12.99	78	5057026	18.70 ug/l	99
44) Trichloroethene	14.05	130	1418083	19.14 ug/l	99
46) 1,2-Dichloropropane	14.35	63	1240584	18.84 ug/l	99
47) 1,4-Dioxane	14.75	88	65897	343.23 ug/l	90
48) Bromodichloromethane	14.75	83	2123758	19.96 ug/l	100
49) Dibromomethane	14.87	93	771882	19.47 ug/l	99
51) 4-Methyl-2-pentanone	15.21	43	3223073	97.22 ug/l	100
52) cis-1,3-Dichloropropene	15.61	75	1978910	19.99 ug/l	99
54) Toluene	16.18	91	5676108	19.00 ug/l	99
55) Ethyl methacrylate	16.31	69	910777	20.18 ug/l	100
56) trans-1,3-Dichloropropene	16.42	75	1590152	22.73 ug/l	99
57) 2-Hexanone	16.62	43	2180748	98.23 ug/l	99
58) 1,1,2-Trichloroethane	16.71	97	717348	18.98 ug/l	99
59) 1,3-Dichloropropane	17.12	76	1329755	18.87 ug/l	100
60) Tetrachloroethene	17.26	164	1366689	19.07 ug/l	100
61) Dibromochloromethane	17.62	129	1109147	22.88 ug/l	100
62) 1,2-Dibromoethane	17.95	107	875000	19.96 ug/l	99
63) 1-Chlorohexane	18.05	91	2544993	19.38 ug/l	99
64) Chlorobenzene	18.62	112	3302546	19.02 ug/l	99
65) 1,1,1,2-Tetrachloroethane	18.65	131	1273998	20.04 ug/l	99
66) Ethylbenzene	18.63	91	7402898	19.29 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	11578025	39.12 ug/l	100
68) o-Xylene	19.48	91	5657380	19.32 ug/l	99
69) Styrene	19.53	104	3672294	19.59 ug/l	100
71) Isopropylbenzene	20.03	105	6511540	18.99 ug/l	100
72) Bromoform	20.20	173	587390	19.23 ug/l	98
73) 1,1,2,2-Tetrachloroethane	20.32	83	844443	18.70 ug/l	100
75) 1,2,3-Trichloropropane	20.56	110	208339	19.23 ug/l	94
76) trans-1,4-Dichloro-2-buten	20.60	53	223779	20.96 ug/l	100
77) n-Propylbenzene	20.67	91	9200972	19.18 ug/l	99
78) Bromobenzene	20.87	156	1429571	18.82 ug/l	98
79) 1,3,5-Trimethylbenzene	20.91	105	5711051	19.28 ug/l	100
80) 2-Chlorotoluene	21.05	91	5591198	19.02 ug/l	91

(#) = qualifier out of range (m) = manual integration

SW 2/18/11

2237

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB362.D
Acq On : 16 Feb 2011 7:23 pm
Sample : VO03B167 20.0ppb
Misc : 20.0ppb 8260/100.0ppb TBA-KET/100.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 9
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.11	91	4575605	18.73 ug/l	89
82) tert-Butylbenzene	21.52	134	957414	19.10 ug/l	98
83) 1,2,4-Trimethylbenzene	21.58	105	5420948	19.09 ug/l	100
84) sec-Butylbenzene	21.87	105	7302294	19.16 ug/l	99
85) p-Isopropyltoluene	22.06	119	5607937	19.86 ug/l	99
86) 1,3-Dichlorobenzene	22.34	146	2530889	19.63 ug/l	99
87) 1,4-Dichlorobenzene	22.51	146	2395919	19.71 ug/l	99
88) n-Butylbenzene	22.73	91	6579509	20.27 ug/l	99
89) 1,2-Dichlorobenzene	23.16	146	1979349	19.29 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.44	157	112835	22.14 ug/l	98
91) 1,2,4-Trichlorobenzene	26.05	180	1180446	20.96 ug/l	99
92) Hexachlorobutadiene	26.26	225	1039745	20.07 ug/l	100
93) Naphthalene	26.65	128	1328853	20.14 ug/l	100
94) 1,2,3-Trichlorobenzene	27.12	180	877782	20.90 ug/l	100

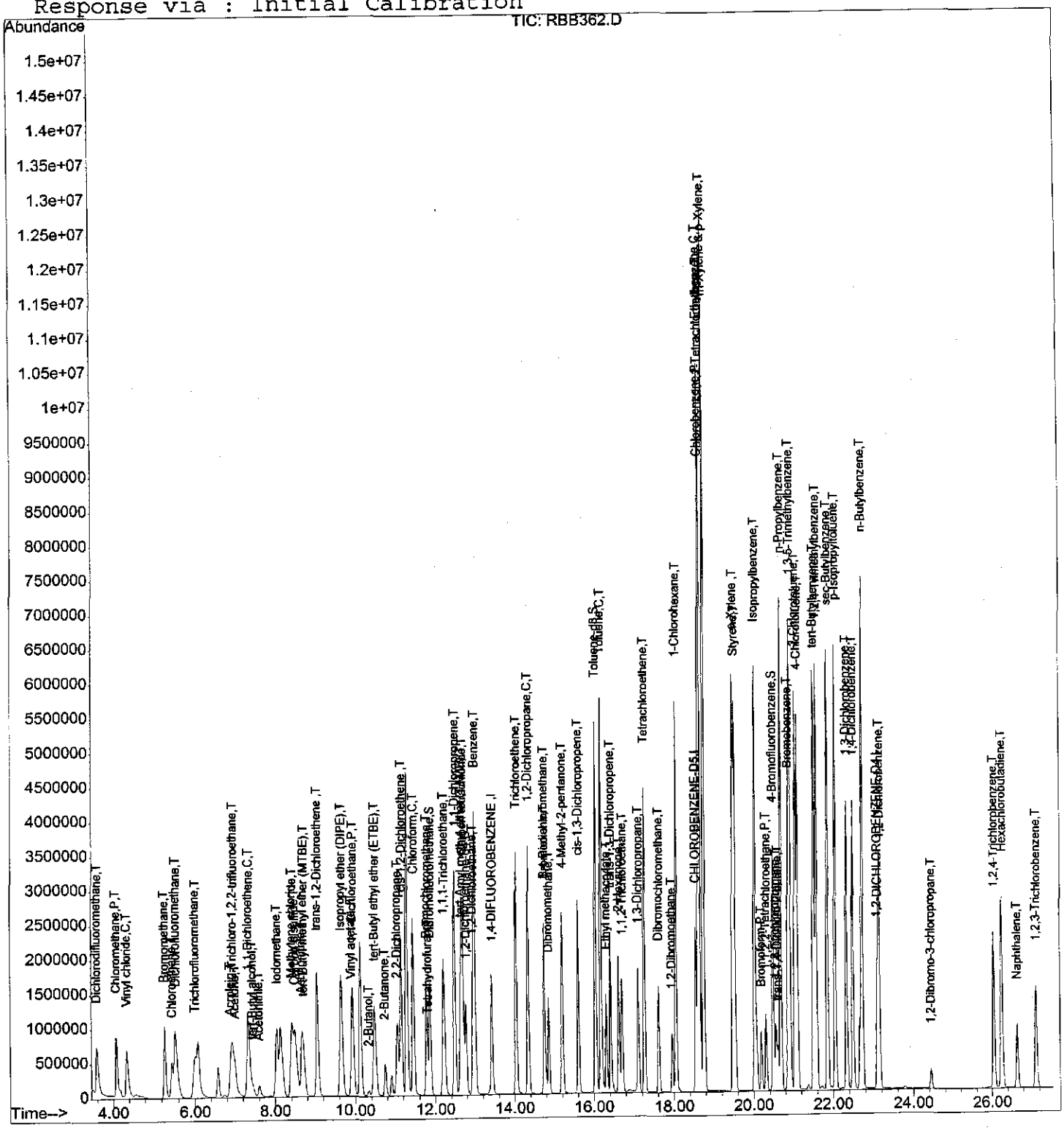
SL 2/18/11

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB362.D Vial: 9
Acq On : 16 Feb 2011 7:23 pm Operator: MW
Sample : VO03B167 20.0ppb Inst : TO03
Misc : 20.0ppb 8260/100.0ppb TBA-KET/100.0ppb A Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011 Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2239

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB363.D
Acq On : 16 Feb 2011 8:00 pm
Sample : VO03B168 30.0ppb
Misc : 30.0ppb 8260/150.0ppb TBA-KET/150.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1720284	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.54	117	1567421	10.00 ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.11	152	615334	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	2312146	31.31 ug/l	0.00
Spiked Amount 10.000			Recovery	= 313.10%	
38) 1,2-Dichloroethane-d4	12.78	65	2193033	30.31 ug/l	0.00
Spiked Amount 10.000			Recovery	= 303.10%	
53) Toluene-d8	16.04	98	7149348	30.10 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 301.00%	
74) 4-Bromofluorobenzene	20.49	95	2788533	29.47 ug/l	0.00
Spiked Amount 10.000			Recovery	= 294.70%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.58	85	2122270	29.06 ug/l	99
4) Chloromethane	4.08	50	2247649	30.13 ug/l	99
5) Vinyl chloride	4.33	62	1958260	29.69 ug/l	99
6) Bromomethane	5.29	94	1503468	30.93 ug/l	99
7) Chloroethane	5.45	64	883850	30.67 ug/l	94
8) Dichlorofluoromethane	5.53	67	3808178	32.10 ug/l	98
9) Trichlorofluoromethane	6.00	101	2828218	30.73 ug/l	99
10) Acrolein	6.88	56	221958	149.26 ug/l	97
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	1116940	29.89 ug/l	98
12) Acetone	7.00	43	1019871	142.77 ug/l	99
13) 1,1-Dichloroethene	7.33	61	3314241	30.18 ug/l	100
14) tert-Butyl alcohol	7.45	59	320080	158.28 ug/l	96
15) Acetonitrile	7.61	39	125278	273.04 ug/l	96
17) Iodomethane	8.04	142	3239712	30.60 ug/l	99
18) Methylene chloride	8.43	49	2167510	28.89 ug/l	99
19) Carbon disulfide	8.49	76	6081939	31.97 ug/l	100
20) Acrylonitrile	8.65	53	901276	157.20 ug/l	96
21) tert-Butyl methyl ether (M	8.70	73	2427516	30.28 ug/l	99
22) trans-1,2-Dichloroethene	9.05	61	3204893	30.76 ug/l	100
23) Isopropyl ether (DIPE)	9.65	45	5876286	30.74 ug/l	99
24) Vinyl acetate	9.90	43	1643279	29.20 ug/l	100
25) 1,1-Dichloroethane	9.93	63	3713757	31.16 ug/l	100
26) 2-Butanol	10.34	45	228765	173.27 ug/l	94
27) tert-Butyl ethyl ether (ET	10.48	59	4123803	30.90 ug/l	99
28) 2-Butanone	10.74	43	1627434	149.35 ug/l	97
29) 2,2-Dichloropropane	11.07	77	1859795	29.95 ug/l	98
30) cis-1,2-Dichloroethene	11.15	96	2137898	31.87 ug/l	99

(#) = qualifier out of range (m) = manual integration

SW 2/18/11

2240

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB363.D
Acq On : 16 Feb 2011 8:00 pm
Sample : VO03B168 30.0ppb
Misc : 30.0ppb 8260/150.0ppb TBA-KET/150.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	4339187	30.42 ug/l	99
32) Bromochloromethane	11.78	49	1619364	30.93 ug/l	99
33) Tetrahydrofuran	11.82	42	170932	27.32 ug/l	96
35) 1,1,1-Trichloroethane	12.21	97	3609809	31.34 ug/l	99
37) tert-Amyl methyl ether (TA	12.66	87	695603	30.89 ug/l	99
40) 1,1-Dichloropropene	12.49	110	936834	30.02 ug/l	98
41) Carbon tetrachloride	12.69	119	3552859	31.61 ug/l	98
42) 1,2-Dichloroethane	12.94	62	2569349	30.44 ug/l	100
43) Benzene	13.00	78	7437067	29.84 ug/l	99
44) Trichloroethene	14.04	130	2106729	30.85 ug/l	98
46) 1,2-Dichloropropane	14.34	63	1871486	30.84 ug/l	99
47) 1,4-Dioxane	14.74	88	105517	596.37 ug/l	83
48) Bromodichloromethane	14.76	83	3172272	32.35 ug/l	100
49) Dibromomethane	14.86	93	1137661	31.13 ug/l	100
51) 4-Methyl-2-pentanone	15.20	43	4595612	150.42 ug/l	98
52) cis-1,3-Dichloropropene	15.62	75	2971966	32.58 ug/l	100
54) Toluene	16.17	91	8389069	30.47 ug/l	100
55) Ethyl methacrylate	16.31	69	1337492	32.15 ug/l	99
56) trans-1,3-Dichloropropene	16.43	75	2360856	36.61 ug/l	97
57) 2-Hexanone	16.62	43	3243231	158.52 ug/l	100
58) 1,1,2-Trichloroethane	16.71	97	1056957	30.34 ug/l	99
59) 1,3-Dichloropropane	17.11	76	1996856	30.76 ug/l	99
60) Tetrachloroethene	17.27	164	1972747	29.87 ug/l	99
61) Dibromochloromethane	17.62	129	1678131	37.57 ug/l	99
62) 1,2-Dibromoethane	17.96	107	1282718	31.76 ug/l	98
63) 1-Chlorohexane	18.06	91	3669326	30.31 ug/l	100
64) Chlorobenzene	18.61	112	4892506	30.58 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	1899765	32.43 ug/l	99
66) Ethylbenzene	18.64	91	10915832	30.87 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	16862701	61.83 ug/l	100
68) o-Xylene	19.49	91	8224812	30.48 ug/l	99
69) Styrene	19.54	104	5545589	32.10 ug/l	99
71) Isopropylbenzene	20.03	105	9331615	30.39 ug/l	100
72) Bromoform	20.19	173	881875	32.03 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.31	83	1208881	29.90 ug/l	99
75) 1,2,3-Trichloropropane	20.57	110	292751	30.17 ug/l	96
76) trans-1,4-Dichloro-2-buten	20.61	53	347169	35.89 ug/l	99
77) n-Propylbenzene	20.68	91	13106845	30.50 ug/l	100
78) Bromobenzene	20.88	156	2057007	30.24 ug/l	97
79) 1,3,5-Trimethylbenzene	20.91	105	8036438	30.29 ug/l	99
80) 2-Chlorotoluene	21.04	91	7614271	28.92 ug/l	91

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

2241

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB363.D
Acq On : 16 Feb 2011 8:00 pm
Sample : VO03B168 30.0ppb
Misc : 30.0ppb 8260/150.0ppb TBA-KET/150.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	6979069	31.90 ug/l	88
82) tert-Butylbenzene	21.52	134	1373675	30.61 ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	7673277	30.18 ug/l	99
84) sec-Butylbenzene	21.86	105	10252769	30.05 ug/l	100
85) p-Isopropyltoluene	22.05	119	7699340	30.45 ug/l	99
86) 1,3-Dichlorobenzene	22.34	146	3559100	30.83 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	3380334	31.05 ug/l	99
88) n-Butylbenzene	22.72	91	9001123	30.96 ug/l	100
89) 1,2-Dichlorobenzene	23.16	146	2809777	30.58 ug/l	100
90) 1,2-Dibromo-3-chloropropan	24.45	157	159092	34.86 ug/l	98
91) 1,2,4-Trichlorobenzene	26.05	180	1557646	30.89 ug/l	99
92) Hexachlorobutadiene	26.25	225	1333485	28.75 ug/l	100
93) Naphthalene	26.64	128	1791793	30.32 ug/l	100
94) 1,2,3-Trichlorobenzene	27.12	180	1146400	30.48 ug/l	99

(#) = qualifier out of range (m) = manual integration
RBB363.D VO03B16.M Thu Feb 17 08:36:36 2011

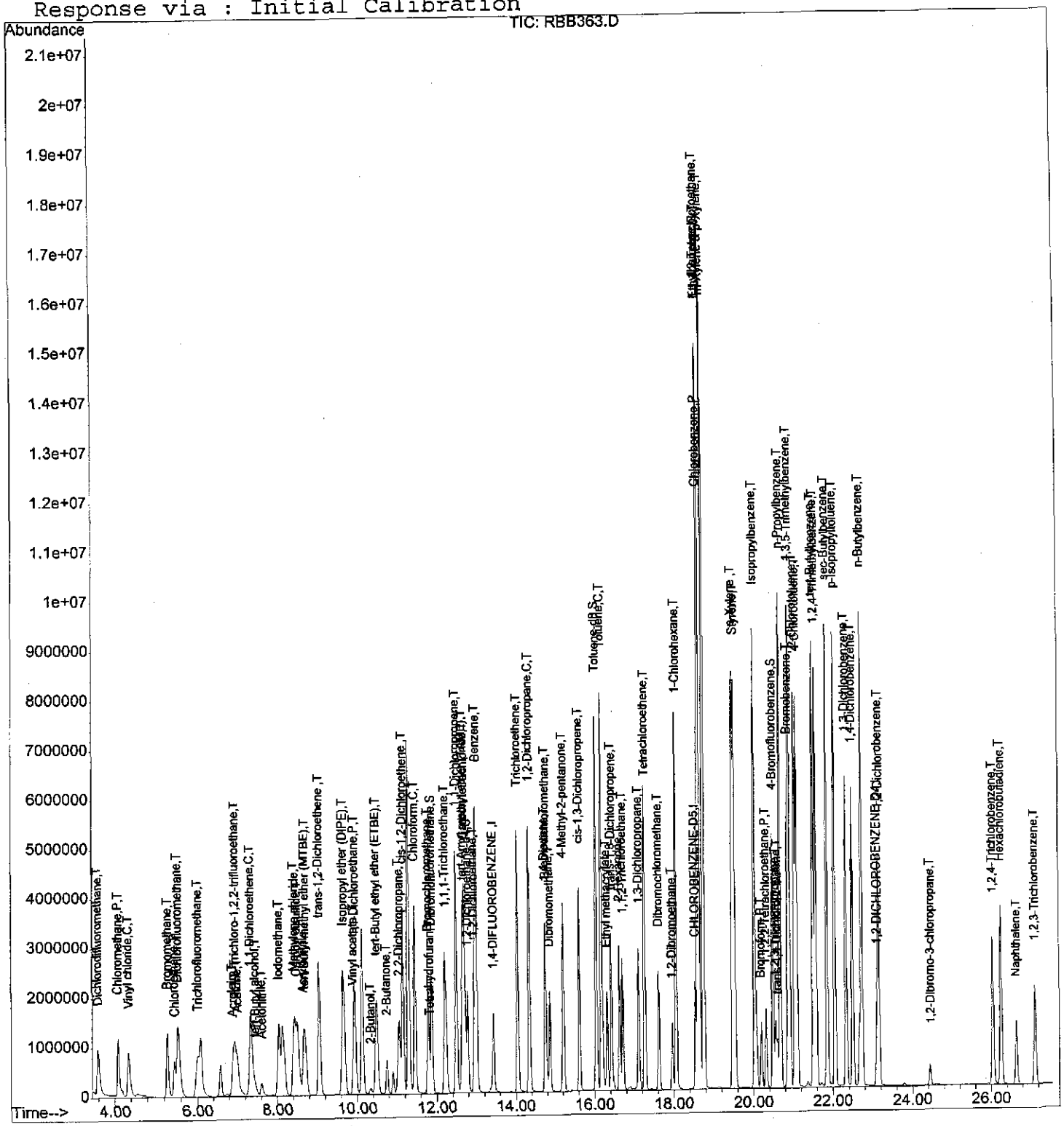
SV 2/18/11

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB363.D
Acq On : 16 Feb 2011 8:00 pm
Sample : VO03B168 30.0ppb
Misc : 30.0ppb 8260/150.0ppb TBA-KET/150.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 10
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2243

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB364.D
Acq On : 16 Feb 2011 8:38 pm
Sample : VO03B169 40.0ppb
Misc : 40.0ppb 8260/200.0ppb TBA-KET/200.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1639628	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.54	117	1528605	10.00 ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.11	152	564443	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	3073246	43.66 ug/l	0.00
Spiked Amount 10.000			Recovery =	436.60%	
38) 1,2-Dichloroethane-d4	12.78	65	2973936	43.13 ug/l	0.00
Spiked Amount 10.000			Recovery =	431.30%	
53) Toluene-d8	16.04	98	9783588	42.24 ug/l	-0.01
Spiked Amount 10.000			Recovery =	422.40%	
74) 4-Bromofluorobenzene	20.49	95	3705586	42.69 ug/l	0.00
Spiked Amount 10.000			Recovery =	426.90%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	2990831	42.97 ug/l	99
4) Chloromethane	4.08	50	3138183	44.14 ug/l	99
5) Vinyl chloride	4.33	62	2816886	44.80 ug/l	100
6) Bromomethane	5.29	94	2108519	45.52 ug/l	99
7) Chloroethane	5.45	64	1266333	46.10 ug/l	87
8) Dichlorofluoromethane	5.54	67	5310561	46.96 ug/l	99
9) Trichlorofluoromethane	6.00	101	3958947	45.13 ug/l	100
10) Acrolein	6.88	56	316409	223.25 ug/l	96
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	1548436	43.48 ug/l	99
12) Acetone	7.00	43	1438847	211.34 ug/l	100
13) 1,1-Dichloroethene	7.34	61	4474636	42.76 ug/l	99
14) tert-Butyl alcohol	7.45	59	453989	235.55 ug/l	94
15) Acetonitrile	7.61	39	188521	431.09 ug/l	94
17) Iodomethane	8.04	142	4524210	44.84 ug/l	99
18) Methylene chloride	8.41	49	3055028	42.73 ug/l	99
19) Carbon disulfide	8.50	76	8478642	46.76 ug/l	100
20) Acrylonitrile	8.65	53	1290618	236.18 ug/l	98
21) tert-Butyl methyl ether (M	8.70	73	3528382	46.18 ug/l	100
22) trans-1,2-Dichloroethene	9.05	61	4449170	44.80 ug/l	100
23) Isopropyl ether (DIPE)	9.67	45	8307033	45.59 ug/l	99
24) Vinyl acetate	9.90	43	2329303	43.43 ug/l	99
25) 1,1-Dichloroethane	9.93	63	5086893	44.78 ug/l	100
26) 2-Butanol	10.34	45	335708	266.78 ug/l	99
27) tert-Butyl ethyl ether (ET	10.48	59	5865599	46.11 ug/l	100
28) 2-Butanone	10.75	43	2269888	218.55 ug/l	98
29) 2,2-Dichloropropane	11.07	77	2456689	41.50 ug/l	97
30) cis-1,2-Dichloroethene	11.15	96	2881793	45.08 ug/l	95

(#) = qualifier out of range (m) = manual integration

SV 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB364.D
Acq On : 16 Feb 2011 8:38 pm
Sample : VO03B169 40.0ppb
Misc : 40.0ppb 8260/200.0ppb TBA-KET/200.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	5886609	43.30 ug/l	98
32) Bromochloromethane	11.78	49	2212605	44.33 ug/l	99
33) Tetrahydrofuran	11.82	42	247372	41.48 ug/l	99
35) 1,1,1-Trichloroethane	12.21	97	5017133	45.70 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	986051	45.94 ug/l	98
40) 1,1-Dichloropropene	12.49	110	1282412	42.13 ug/l	98
41) Carbon tetrachloride	12.69	119	4938219	45.05 ug/l	98
42) 1,2-Dichloroethane	12.94	62	3589218	43.60 ug/l	100
43) Benzene	13.00	78	9934343	40.87 ug/l	99
44) Trichloroethene	14.04	130	2837191	42.60 ug/l	100
46) 1,2-Dichloropropane	14.34	63	2550992	43.10 ug/l	100
47) 1,4-Dioxane	14.74	88	144980	840.22 ug/l	87
48) Bromodichloromethane	14.74	83	4404690	46.06 ug/l	100
49) Dibromomethane	14.86	93	1564422	43.90 ug/l	100
51) 4-Methyl-2-pentanone	15.20	43	6732670	225.96 ug/l	100
52) cis-1,3-Dichloropropene	15.62	75	4104735	46.14 ug/l	100
54) Toluene	16.17	91	11397293	42.44 ug/l	99
55) Ethyl methacrylate	16.32	69	1847962	45.55 ug/l	98
56) trans-1,3-Dichloropropene	16.43	75	3368906	53.57 ug/l	99
57) 2-Hexanone	16.62	43	4603281	230.70 ug/l	98
58) 1,1,2-Trichloroethane	16.71	97	1489520	43.84 ug/l	99
59) 1,3-Dichloropropane	17.11	76	2757858	43.55 ug/l	99
60) Tetrachloroethene	17.26	164	2729731	42.38 ug/l	99
61) Dibromochloromethane	17.62	129	2330324	53.50 ug/l	100
62) 1,2-Dibromoethane	17.96	107	1779925	45.18 ug/l	98
63) 1-Chlorohexane	18.06	91	5024872	42.57 ug/l	99
64) Chlorobenzene	18.61	112	6641524	42.56 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	2607006	45.63 ug/l	99
66) Ethylbenzene	18.64	91	14774428	42.84 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	20108904	75.60 ug/l	92
68) o-Xylene	19.48	91	11139357	42.34 ug/l	98
69) Styrene	19.54	104	7287008	43.25 ug/l	99
71) Isopropylbenzene	20.03	105	12331640	43.78 ug/l	100
72) Bromoform	20.19	173	1243628	49.07 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.31	83	1689687	45.56 ug/l	100
75) 1,2,3-Trichloropropane	20.57	110	419696	47.16 ug/l	97
76) trans-1,4-Dichloro-2-buten	20.61	53	490929	55.03 ug/l	97
77) n-Propylbenzene	20.68	91	17298537	43.89 ug/l	100
78) Bromobenzene	20.88	156	2805891	44.97 ug/l	95
79) 1,3,5-Trimethylbenzene	20.91	105	10529899	43.27 ug/l	100
80) 2-Chlorotoluene	21.04	91	10134574	41.96 ug/l	91

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

2245

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB364.D
Acq On : 16 Feb 2011 8:38 pm
Sample : VO03B169 40.0ppb
Misc : 40.0ppb 8260/200.0ppb TBA-KET/200.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	9068670	45.19 ug/l	88
82) tert-Butylbenzene	21.52	134	1806837	43.89 ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	10051957	43.10 ug/l	99
84) sec-Butylbenzene	21.86	105	13413406	42.85 ug/l	99
85) p-Isopropyltoluene	22.05	119	9917503	42.76 ug/l	99
86) 1,3-Dichlorobenzene	22.34	146	4622391	43.65 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	4431613	44.37 ug/l	100
88) n-Butylbenzene	22.72	91	11548356	43.30 ug/l	100
89) 1,2-Dichlorobenzene	23.16	146	3640829	43.19 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.44	157	217195	51.88 ug/l	98
91) 1,2,4-Trichlorobenzene	26.05	180	2021196	43.69 ug/l	100
92) Hexachlorobutadiene	26.25	225	1726893	40.58 ug/l	99
93) Naphthalene	26.64	128	2363190	43.60 ug/l	100
94) 1,2,3-Trichlorobenzene	27.12	180	1527418	44.27 ug/l	99

SC
2/18/11

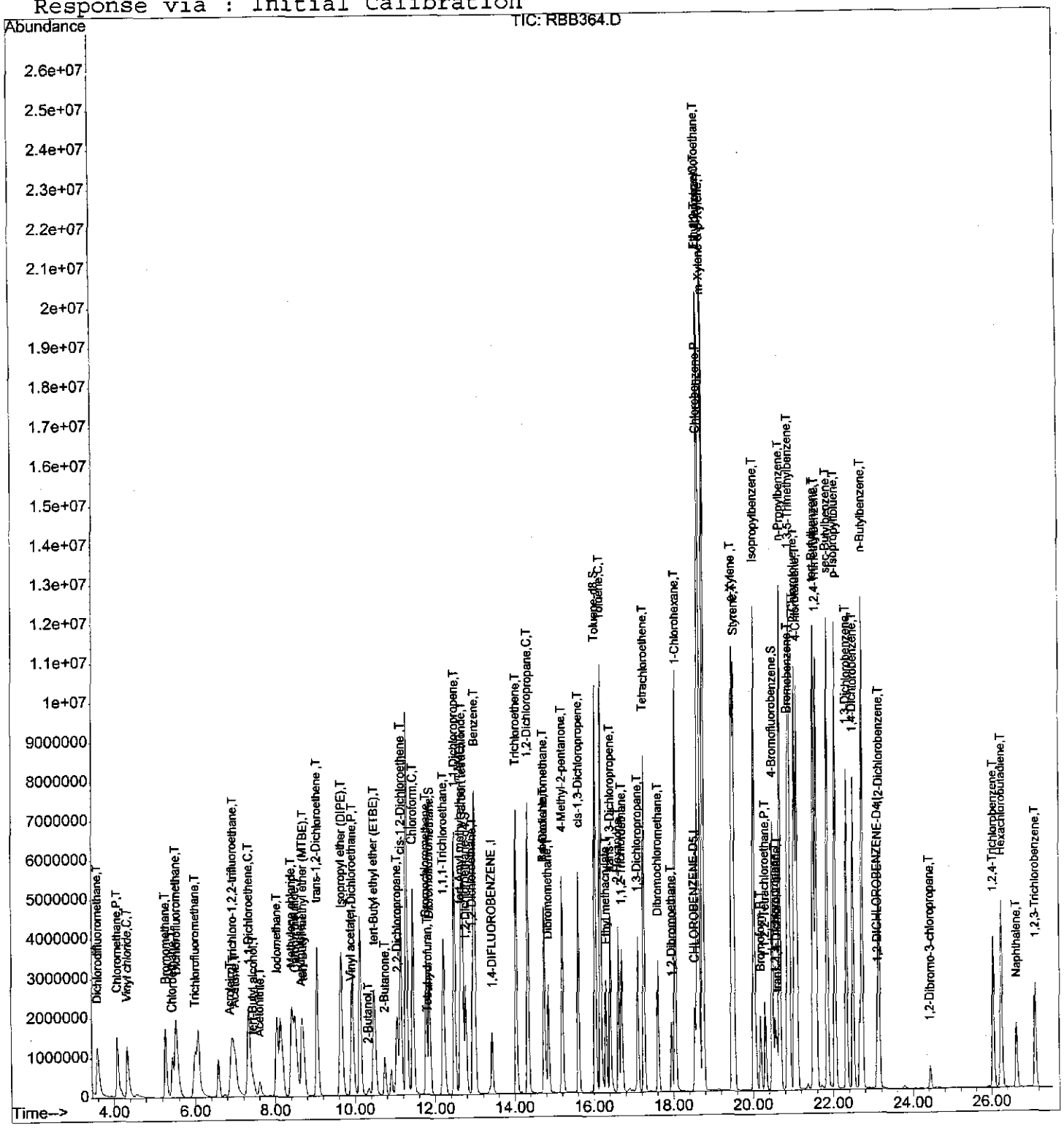
(#) = qualifier out of range (m) = manual integration
RBB364.D VO03B16.M Thu Feb 17 08:36:45 2011

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB364.D
Acq On : 16 Feb 2011 8:38 pm
Sample : VO03B169 40.0ppb
Misc : 40.0ppb 8260/200.0ppb TBA-KET/200.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 11
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2247

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB365.D
Acq On : 16 Feb 2011 9:15 pm
Sample : VO03B1610 50.0ppb
Misc : 50.0ppb 8260/250.0ppb TBA-KET/250.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.43	114	1587214	10.00 ug/l	0.00
39) CHLOROBENZENE-D5	18.54	117	1430696	10.00 ug/l	-0.02
70) 1,2-DICHLOROBENZENE-D4	23.11	152	532153	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	11.87	111	3874145	56.86 ug/l	0.00
Spiked Amount 10.000			Recovery	= 568.60%	
38) 1,2-Dichloroethane-d4	12.78	65	3713698	55.63 ug/l	0.00
Spiked Amount 10.000			Recovery	= 556.30%	
53) Toluene-d8	16.04	98	11780358	54.35 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 543.50%	
74) 4-Bromofluorobenzene	20.49	95	4350726	53.17 ug/l	0.00
Spiked Amount 10.000			Recovery	= 531.70%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	3700943	54.93 ug/l	100
4) Chloromethane	4.08	50	3898784	56.65 ug/l	99
5) Vinyl chloride	4.33	62	3508879	57.65 ug/l	100
6) Bromomethane	5.29	94	2672499	59.60 ug/l	100
7) Chloroethane	5.45	64	1548744	58.24 ug/l	87
8) Dichlorofluoromethane	5.54	67	6542068	59.76 ug/l	99
9) Trichlorofluoromethane	6.00	101	4907955	57.79 ug/l	99
10) Acrolein	6.88	56	420987	306.84 ug/l	98
11) 1,1,2-Trichloro-1,2,2-trif	6.92	151	1864310	54.07 ug/l	99
12) Acetone	7.00	43	1849034	280.55 ug/l	99
13) 1,1-Dichloroethene	7.34	61	5372421	53.03 ug/l	99
14) tert-Butyl alcohol	7.45	59	574424	307.87 ug/l	95
15) Acetonitrile	7.59	39	263130	621.57 ug/l	91
17) Iodomethane	8.04	142	5527002	56.59 ug/l	100
18) Methylene chloride	8.41	49	3786920	54.72 ug/l	100
19) Carbon disulfide	8.50	76	10259286	58.45 ug/l	100
20) Acrylonitrile	8.65	53	1601025	302.65 ug/l	98
21) tert-Butyl methyl ether (M	8.70	73	4327312	58.50 ug/l	100
22) trans-1,2-Dichloroethene	9.05	61	5430422	56.49 ug/l	100
23) Isopropyl ether (DIPE)	9.65	45	9956376	56.44 ug/l	98
24) Vinyl acetate	9.90	43	2909925	56.04 ug/l	100
25) 1,1-Dichloroethane	9.93	63	6148698	55.92 ug/l	99
26) 2-Butanol	10.33	45	452193	371.21 ug/l	98
27) tert-Butyl ethyl ether (ET	10.48	59	7241527	58.81 ug/l	100
28) 2-Butanone	10.75	43	2854700	283.93 ug/l	98
29) 2,2-Dichloropropane	11.06	77	2984421	52.08 ug/l	97
30) cis-1,2-Dichloroethene	11.15	96	3475295	56.16 ug/l	99

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB365.D
Acq On : 16 Feb 2011 9:15 pm
Sample : VO03B1610 50.0ppb
Misc : 50.0ppb 8260/250.0ppb TBA-KET/250.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	7390176	56.16 ug/l	99
32) Bromochloromethane	11.78	49	2769382	57.32 ug/l	99
33) Tetrahydrofuran	11.82	42	299528	51.89 ug/l	96
35) 1,1,1-Trichloroethane	12.21	97	6150053	57.87 ug/l	99
37) tert-Amyl methyl ether (TA	12.66	87	1233738	59.37 ug/l	98
40) 1,1-Dichloropropene	12.49	110	1553718	54.54 ug/l	98
41) Carbon tetrachloride	12.69	119	6069217	59.16 ug/l	99
42) 1,2-Dichloroethane	12.94	62	4429562	57.50 ug/l	100
43) Benzene	12.98	78	12223541	53.73 ug/l	99
44) Trichloroethene	14.04	130	3479938	55.83 ug/l	99
46) 1,2-Dichloropropane	14.34	63	3073666	55.49 ug/l	96
47) 1,4-Dioxane	14.74	88	194007	1201.29 ug/l	90
48) Bromodichloromethane	14.74	83	5468521	61.10 ug/l	100
49) Dibromomethane	14.86	93	1931253	57.90 ug/l	99
51) 4-Methyl-2-pentanone	15.20	43	8187379	293.59 ug/l	100
52) cis-1,3-Dichloropropene	15.62	75	4991538	59.95 ug/l	99
54) Toluene	16.17	91	13764898	54.77 ug/l	100
55) Ethyl methacrylate	16.31	69	2327434	61.29 ug/l	99
56) trans-1,3-Dichloropropene	16.42	75	4118667	69.98 ug/l	98
57) 2-Hexanone	16.62	43	5607284	300.25 ug/l	98
58) 1,1,2-Trichloroethane	16.71	97	1824398	57.37 ug/l	99
59) 1,3-Dichloropropane	17.11	76	3392139	57.24 ug/l	100
60) Tetrachloroethene	17.26	164	3248085	53.88 ug/l	99
61) Dibromochloromethane	17.62	129	2869699	70.39 ug/l	99
62) 1,2-Dibromoethane	17.96	107	2180273	59.13 ug/l	98
63) 1-Chlorohexane	18.06	91	5935965	53.73 ug/l	99
64) Chlorobenzene	18.61	112	7957208	54.48 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	3091255	57.81 ug/l	100
66) Ethylbenzene	18.64	91	17222284	53.36 ug/l	99
67) m-Xylene & p-Xylene	18.75	91	21769809	87.45 ug/l	85
68) o-Xylene	19.48	91	13146828	53.38 ug/l	99
69) Styrene	19.54	104	8747128	55.47 ug/l	99
71) Isopropylbenzene	20.03	105	14350554	54.04 ug/l	100
72) Bromoform	20.19	173	1517222	63.40 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.31	83	2020001	57.77 ug/l	100
75) 1,2,3-Trichloropropane	20.56	110	499592	59.54 ug/l	98
76) trans-1,4-Dichloro-2-buten	20.61	53	602921	71.52 ug/l	98
77) n-Propylbenzene	20.68	91	18935854	50.96 ug/l	97
78) Bromobenzene	20.88	156	3320338	56.45 ug/l	95
79) 1,3,5-Trimethylbenzene	20.91	105	12369684	53.91 ug/l	100
80) 2-Chlorotoluene	21.04	91	11845658	52.02 ug/l	91

(#) = qualifier out of range (m) = manual integration

SG 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB365.D
Acq On : 16 Feb 2011 9:15 pm
Sample : VO03B1610 50.0ppb
Misc : 50.0ppb 8260/250.0ppb TBA-KET/250.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	10714717	56.63 ug/l	88
82) tert-Butylbenzene	21.52	134	2080020	53.59 ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	11675574	53.10 ug/l	100
84) sec-Butylbenzene	21.86	105	15562715	52.74 ug/l	99
85) p-Isopropyltoluene	22.05	119	11545604	52.80 ug/l	98
86) 1,3-Dichlorobenzene	22.34	146	5445482	54.54 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	5127411	54.46 ug/l	99
88) n-Butylbenzene	22.72	91	13397029	53.28 ug/l	100
89) 1,2-Dichlorobenzene	23.16	146	4286131	53.93 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.44	157	263135	66.66 ug/l	99
91) 1,2,4-Trichlorobenzene	26.04	180	2481018	56.89 ug/l	99
92) Hexachlorobutadiene	26.25	225	2130185	53.10 ug/l	99
93) Naphthalene	26.64	128	2949469	57.72 ug/l	99
94) 1,2,3-Trichlorobenzene	27.12	180	1878194	57.74 ug/l	100

(#) = qualifier out of range (m) = manual integration
RBB365.D VO03B16.M Thu Feb 17 08:36:55 2011

SW 2/18/11

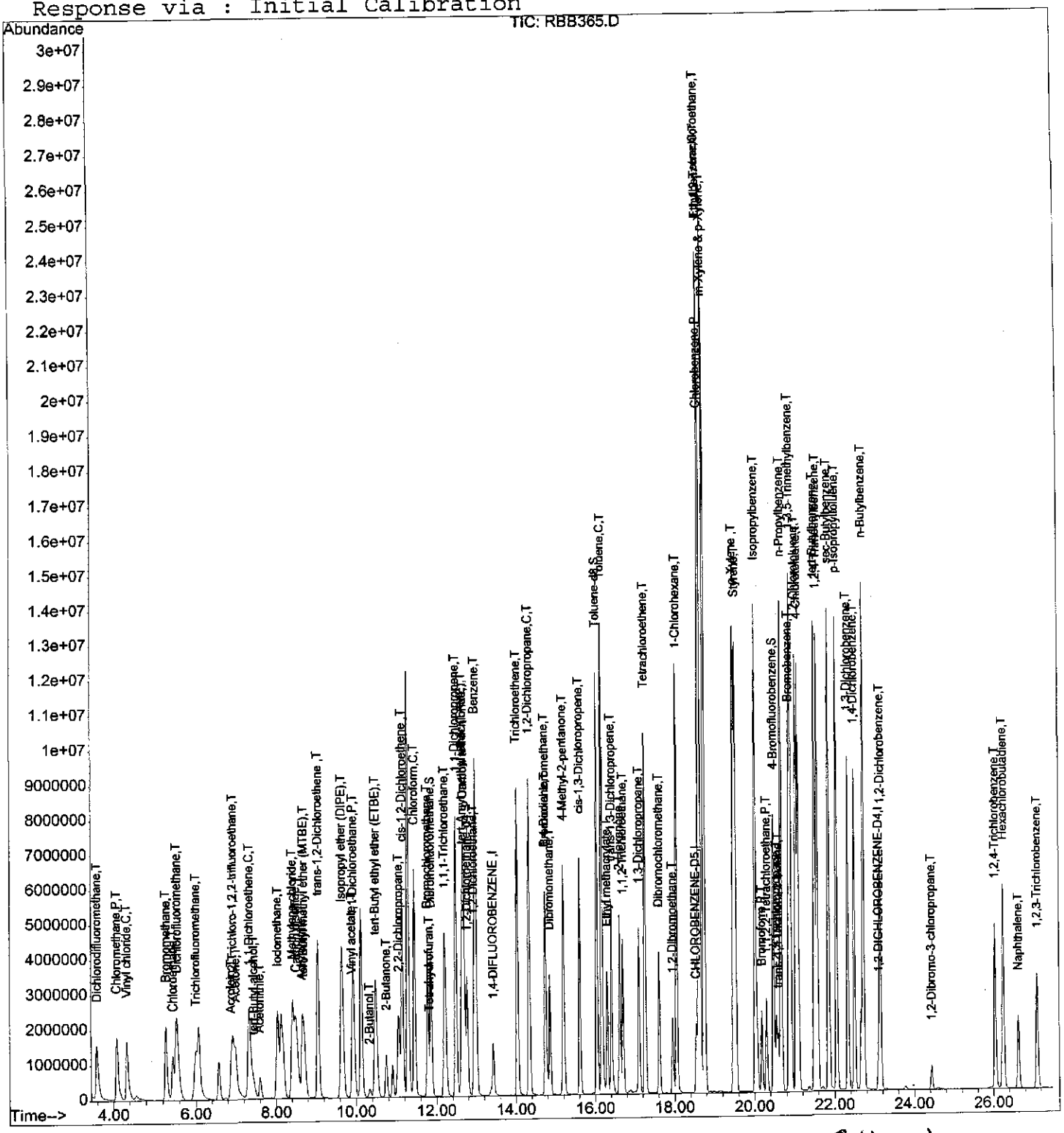
2250

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB365.D
Acq On : 16 Feb 2011 9:15 pm
Sample : VO03B1610 50.0ppb
Misc : 50.0ppb 8260/250.0ppb TBA-KET/250.0ppb A
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:36 2011

Vial: 12
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2251

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB366.D
Acq On : 16 Feb 2011 9:52 pm
Sample : VO03B1611 100.0ppb
Misc : 100.0ppb 8260/500.0ppb TBA-KET/500.0ppb
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1751151	10.00 ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1545877	10.00 ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.10	152	551444	10.00 ug/l	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane	11.86	111	7795365	103.70 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 1037.00%	
38) 1,2-Dichloroethane-d4	12.78	65	7401500	100.50 ug/l	0.00
Spiked Amount 10.000			Recovery	= 1005.00%	
53) Toluene-d8	16.04	98	21491633	91.76 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 917.60%	
74) 4-Bromofluorobenzene	20.48	95	8460796	99.77 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 997.70%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.58	85	7276286	97.88 ug/l	99
4) Chloromethane	4.09	50	7699610	101.41 ug/l	99
5) Vinyl chloride	4.32	62	6877155	102.42 ug/l	100
6) Bromomethane	5.28	94	5346186	108.06 ug/l	100
7) Chloroethane	5.44	64	3003803	102.39 ug/l	95
8) Dichlorofluoromethane	5.53	67	13515624	111.90 ug/l	99
9) Trichlorofluoromethane	6.01	101	9806020	104.66 ug/l	99
10) Acrolein	6.88	56	866463	572.41 ug/l	96
11) 1,1,2-Trichloro-1,2,2-trif	6.93	151	3652749	96.03 ug/l	98
12) Acetone	7.00	43	3778990	519.71 ug/l	99
13) 1,1-Dichloroethene	7.33	61	10988079	98.31 ug/l	99
14) tert-Butyl alcohol	7.47	59	1111926	540.17 ug/l	96
15) Acetonitrile	7.61	39	537221	1150.22 ug/l	94
17) Iodomethane	8.05	142	10836242	100.56 ug/l	99
18) Methylene chloride	8.42	49	7515190	98.42 ug/l	99
19) Carbon disulfide	8.49	76	20640379	106.59 ug/l	100
20) Acrylonitrile	8.66	53	3337283	571.81 ug/l	99
21) tert-Butyl methyl ether (M	8.70	73	8973075	109.95 ug/l	99
22) trans-1,2-Dichloroethene	9.06	61	10474063	98.76 ug/l	100
23) Isopropyl ether (DIPE)	9.65	45	20349696	104.56 ug/l	99
24) Vinyl acetate	9.91	43	5655944	98.73 ug/l	99
25) 1,1-Dichloroethane	9.94	63	12206921	100.62 ug/l	100
26) 2-Butanol	10.34	45	928091	690.56 ug/l	98
27) tert-Butyl ethyl ether (ET	10.49	59	14944034	110.00 ug/l	99
28) 2-Butanone	10.76	43	5921836	533.85 ug/l	98
29) 2,2-Dichloropropane	11.05	77	5210077	82.41 ug/l	98
30) cis-1,2-Dichloroethene	11.16	96	7031024	102.98 ug/l	99

(#) = qualifier out of range (m) = manual integration
RBB366.D VO03B16.M Thu Feb 17 08:37:03 2011

SA 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB366.D
Acq On : 16 Feb 2011 9:52 pm
Sample : VO03B1611 100.0ppb
Misc : 100.0ppb 8260/500.0ppb TBA-KET/500.0ppb
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.46	83	14567029	100.33 ug/l	99
32) Bromochloromethane	11.78	49	5528676	103.72 ug/l	98
33) Tetrahydrofuran	11.83	42	651130	102.24 ug/l	97
35) 1,1,1-Trichloroethane	12.22	97	11483231	97.94 ug/l	99
37) tert-Amyl methyl ether (TA	12.65	87	2541264	110.85 ug/l	97
40) 1,1-Dichloropropene	12.48	110	3140352	102.02 ug/l	99
41) Carbon tetrachloride	12.69	119	11852484	106.92 ug/l	98
42) 1,2-Dichloroethane	12.95	62	8875445	106.62 ug/l	100
43) Benzene	12.99	78	22847984	92.95 ug/l	96
44) Trichloroethene	14.05	130	6979619	103.63 ug/l	99
46) 1,2-Dichloropropane	14.35	63	6227822	104.05 ug/l	98
47) 1,4-Dioxane	14.73	88	389221	2230.48 ug/l	90
48) Bromodichloromethane	14.75	83	10886339	112.57 ug/l	99
49) Dibromomethane	14.87	93	3949445	109.59 ug/l	100
51) 4-Methyl-2-pentanone	15.21	43	16801961	557.60 ug/l	100
52) cis-1,3-Dichloropropene	15.61	75	9988445	111.02 ug/l	99
54) Toluene	16.18	91	22599679	83.22 ug/l	84
55) Ethyl methacrylate	16.31	69	4545056	110.77 ug/l	100
56) trans-1,3-Dichloropropene	16.41	75	8105346	127.45 ug/l	98
57) 2-Hexanone	16.62	43	11198095	554.94 ug/l	99
58) 1,1,2-Trichloroethane	16.71	97	3592208	104.55 ug/l	99
59) 1,3-Dichloropropane	17.11	76	6594986	102.99 ug/l	100
60) Tetrachloroethene	17.26	164	6459684	99.17 ug/l	99
61) Dibromochloromethane	17.62	129	5844104	132.67 ug/l	99
62) 1,2-Dibromoethane	17.95	107	4348507	109.15 ug/l	98
63) 1-Chlorohexane	18.05	91	11336108	94.96 ug/l	99
64) Chlorobenzene	18.62	112	15921906	100.90 ug/l	96
65) 1,1,1,2-Tetrachloroethane	18.65	131	6195051	107.22 ug/l	99
66) Ethylbenzene	18.63	91	24375751	69.90 ug/l	80
67) m-Xylene & p-Xylene	18.63	91	24375751	90.62 ug/l	93
68) o-Xylene	19.48	91	22034491	82.81 ug/l	90
69) Styrene	19.54	104	17002763	99.78 ug/l	98
71) Isopropylbenzene	20.03	105	22734475	82.61 ug/l	91
72) Bromoform	20.20	173	3032250	121.98 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.32	83	3833968	105.81 ug/l	100
75) 1,2,3-Trichloropropane	20.55	110	942146	108.36 ug/l	96
76) trans-1,4-Dichloro-2-buten	20.60	53	1157914	132.06 ug/l	96
77) n-Propylbenzene	20.67	91	25570102	66.40 ug/l	82
78) Bromobenzene	20.87	156	6415752	105.25 ug/l	93
79) 1,3,5-Trimethylbenzene	20.91	105	20659914	86.90 ug/l	92
80) 2-Chlorotoluene	21.05	91	21875906	92.71 ug/l	95

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB366.D
Acq On : 16 Feb 2011 9:52 pm
Sample : VO03B1611 100.0ppb
Misc : 100.0ppb 8260/500.0ppb TBA-KET/500.0ppb
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00

Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.11	91	17680344	90.18 ug/l	83
82) tert-Butylbenzene	21.52	134	3930231	97.71 ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	20058420	88.03 ug/l	93
84) sec-Butylbenzene	21.86	105	23467709	76.74 ug/l	91
85) p-Isopropyltoluene	22.06	119	20099273	88.70 ug/l	96
86) 1,3-Dichlorobenzene	22.34	146	10368617	100.21 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	9732230	99.75 ug/l	100
88) n-Butylbenzene	22.73	91	21490084	82.47 ug/l	87
89) 1,2-Dichlorobenzene	23.15	146	8169882	99.21 ug/l	99
90) 1,2-Dibromo-3-chloropropan	24.44	157	521153	127.41 ug/l	100
91) 1,2,4-Trichlorobenzene	26.05	180	5047827	111.69 ug/l	99
92) Hexachlorobutadiene	26.26	225	4074069	98.00 ug/l	98
93) Naphthalene	26.63	128	5954213	112.44 ug/l	99
94) 1,2,3-Trichlorobenzene	27.12	180	3701251	109.81 ug/l	99

SW 2/18/11

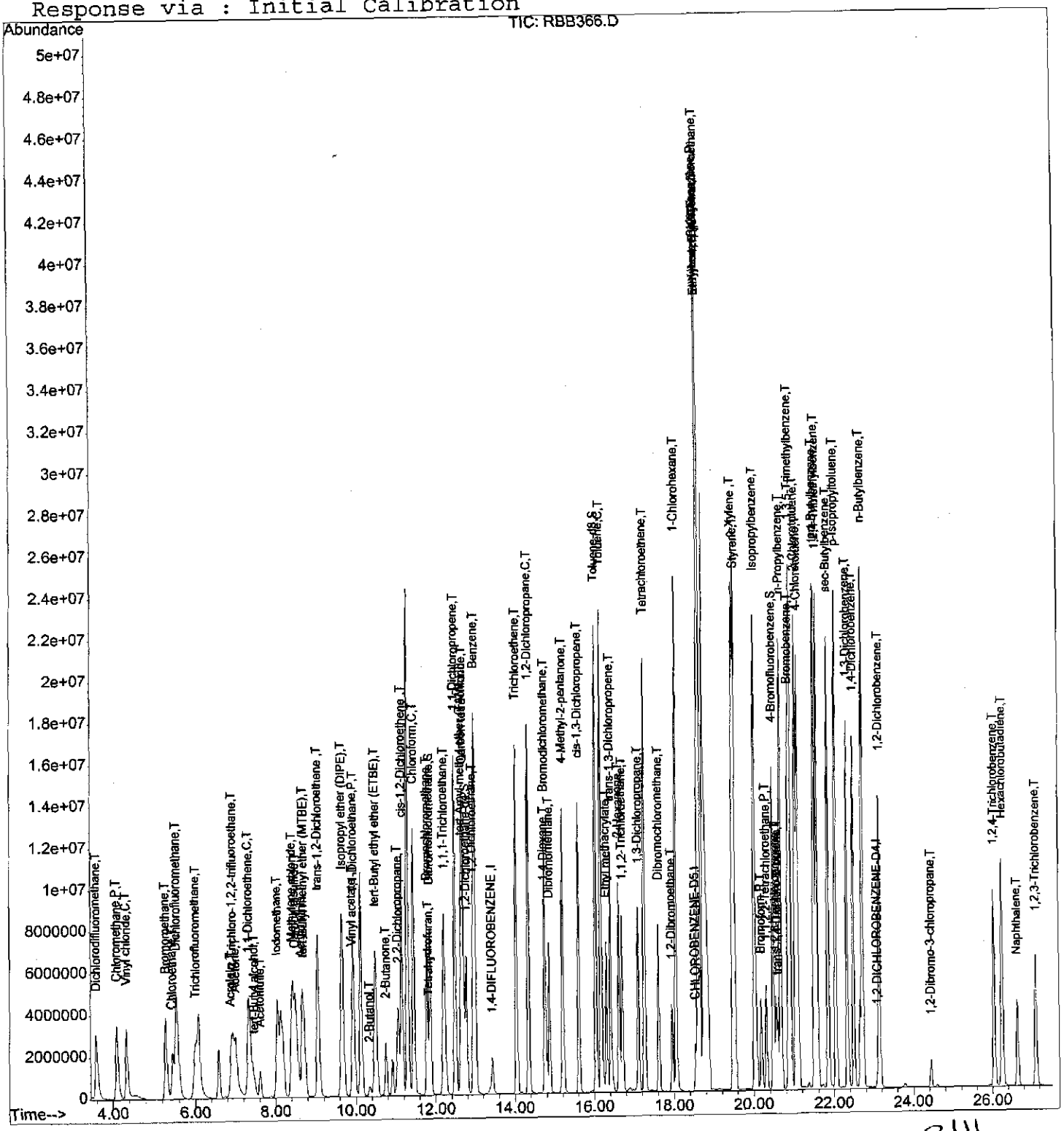
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB366.D
Acq On : 16 Feb 2011 9:52 pm
Sample : VO03B1611 100.0ppb
Misc : 100.0ppb 8260/500.0ppb TBA-KET/500.0ppb
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 13
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T001
IC_Beginning DateTime :12/11/10 09:56
Spike Amount :10 PPB
CC/CV File :RLV341
IC File :RLV333

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :12/11/10 15:24
HPChem Method :V001L11
Date_Time :12/11/10 17:01

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1441268	1	1	8.817	8.813	0				
	2	Dichlorodifluoromethane	9.811	-1.9	247380	0.172	0.175	2.218	2.216	9.01				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.420	4.2	513603	0.356	0.342	2.484	2.479	12.16				
	5	Vinyl chloride	8.919	-10.8	375385	0.260	0.292	2.647	2.650	14.06				
	6	Bromomethane	10.831	8.3	338949	0.235	0.217	3.180	3.170	11.37				
	7	Chloroethane	10.651	6.5	347910	0.241	0.227	3.254	3.251	11.96				
	8	Dichlorofluoromethane	10.136	1.4	855719	0.594	0.586	3.343	3.336	8.78				
	9	Trichlorofluoromethane	10.078	0.8	482948	0.335	0.332	3.639	3.632	9.45				
5	10	sec-Propyl alcohol												
5	11	Acrolein	51.451	2.9	119492	0.017	0.016	4.142	4.139	7.57				
	12	1,1,2-Trichloro-1,2,2-trifluoroethane	9.530	-4.7	218750	0.152	0.159	4.201	4.195	8.56				
5	13	Acetone	51.089	2.2	290469	0.040	0.039	4.231	4.229	7.47				
	14	1,1-Dichloroethene	9.961	-0.4	660776	0.458	0.460	4.393	4.395	8.36				
5	15	tert-Butyl alcohol	55.129	10.3	116541	0.016	0.015	4.526	4.535	6.55				
	16	Acetonitrile												
	17	Iodomethane	10.423	4.2	728506	0.505	0.485	4.808	4.814	6.50				
	18	Methyl acetate												
	19	Methylene chloride	9.456	-5.4	652718	0.453	0.479	5.044	5.042	14.28				
	20	Carbon disulfide	10.804	8.0	1858853	1.290	1.122	5.074	5.073	18.20	-0.0182	1.2106		0.9987
5	21	Acrylonitrile	50.918	1.8	383180	0.053	0.052	5.207	5.214	5.64				
	22	tert-Butyl methyl ether (MTBE)	10.408	4.1	682062	0.473	0.455	5.266	5.276	6.60				
	23	trans-1,2-Dichloroethene	10.121	1.2	752336	0.522	0.516	5.444	5.444	7.26				
	24	Isopropyl ether (DIPE)	10.377	3.8	1892189	1.313	1.265	5.888	5.897	6.33				
	25	Vinyl acetate	10.668	6.7	714287	0.496	0.465	6.036	6.045	9.23				
	26	1,1-Dichloroethane	10.193	1.9	928069	0.644	0.632	6.050	6.047	7.19				
5	27	2-Butanol												
	28	tert-Butyl ethyl ether (ETBE)	10.505	5.0	1140580	0.791	0.753	6.479	6.486	7.38				
5	29	2-Butanone	51.518	3.0	548469	0.076	0.074	6.657	6.653	5.70				
	30	2,2-Dichloropropane	8.922	-10.8	489415	0.340	0.381	6.864	6.857	12.09				
	31	cis-1,2-Dichloroethene	10.170	1.7	542952	0.377	0.370	6.923	6.917	6.52				
	32	Chloroform	10.272	2.7	807078	0.560	0.545	7.145	7.144	5.99				
	33	Bromochloromethane	10.525	5.3	415030	0.288	0.274	7.382	7.389	6.81				
	34	Dibromofluoromethane	11.205	12.0	483875	0.336	0.300	7.471	7.468	8.39				
	35	Tetrahydrofuran												
	36	1,1,1-Trichloroethane	9.978	-0.2	568490	0.394	0.395	7.752	7.748	6.94				
	37	Cyclohexane												
5	38	1-Butanol												
	39	tert-Amyl methyl ether (TAME)	10.885	8.8	175207	0.122	0.112	8.166	8.168	9.19				
	40	1,2-Dichloroethane-d4	11.265	12.7	380481	0.264	0.234	8.211	8.217	8.04				
	41	CHLOROBENZENE-D5	10.000	0	1268187	1	1	14.026	14.020	0				
	42	1,1-Dichloropropene	9.512	-4.9	231678	0.183	0.192	7.974	7.977	9.97				
	43	Carbon tetrachloride	9.429	-5.7	452292	0.357	0.378	8.137	8.134	7.86				
	44	1,2-Dichloroethane	10.351	3.5	440019	0.347	0.335	8.359	8.358	6.97				
	45	Benzene	9.992	-0.1	1972794	1.556	1.557	8.388	8.387	8.06				
	46	Trichloroethene	10.051	0.5	526161	0.415	0.413	9.335	9.337	7.10				
	47	Methylcyclohexane												
	48	1,2-Dichloropropane	10.146	1.5	552765	0.436	0.430	9.616	9.624	7.02				
20	49	1,4-Dioxane	210.064	5.0	36160	0.001	0.001	10.060	10.051	9.05				
	50	Bromodichloromethane	10.131	1.3	590694	0.466	0.460	10.001	9.999	6.30				
	51	Dibromomethane	10.150	1.5	211627	0.167	0.164	10.090	10.087	6.40				
	52	2-Chloroethyl vinyl ether	10.108	1.1	136461	0.108	0.106	10.489	10.488	4.84				
5	53	4-Methyl-2-pentanone	50.616	1.2	1413511	0.223	0.220	10.549	10.553	6.01				
	54	cis-1,3-Dichloropropene	9.981	-0.2	735398	0.580	0.581	10.889	10.894	6.39				
	55	Toluene-d8	10.778	7.8	1780332	1.404	1.303	11.318	11.317	6.27				
	56	Toluene	9.842	-1.6	1985249	1.565	1.591	11.451	11.452	8.81				
	57	Ethyl methacrylate	10.442	4.4	410458	0.324	0.310	11.732	11.738	7.22				
	58	trans-1,3-Dichloropropene	10.202	2.0	529496	0.418	0.409	11.747	11.750	7.44				
5	59	2-Hexanone	50.525	1.0	878349	0.139	0.137	12.043	12.049	6.85				

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12/16/10

60	1,1,2-Trichloroethane	10.315	3.1	287381	0.227	0.220	12.028	12.029	7.27					
61	1,3-Dichloropropane	10.316	3.2	564370	0.445	0.431	12.472	12.474	6.84					
62	Tetrachloroethene	9.721	-2.8	383027	0.302	0.311	12.605	12.603	8.80					
63	Dibromochloromethane	10.420	4.2	357574	0.282	0.271	12.960	12.958	6.68					
64	1,2-Dibromoethane	10.304	3.0	281963	0.222	0.216	13.330	13.325	6.57					
65	1-Chlorohexane	9.529	-4.7	786927	0.621	0.651	13.611	13.607	10.53					
66	Chlorobenzene	10.157	1.6	1226175	0.967	0.952	14.085	14.090	7.47					
67	1,1,1,2-Tetrachloroethane	10.304	3.0	400565	0.316	0.307	14.174	14.168	8.36					
68	Ethylbenzene	9.695	-3.0	2229329	1.758	1.813	14.188	14.184	4.94					
2 69	m-Xylene & p-Xylene	19.649	-1.8	3319552	1.309	1.332	14.321	14.325	4.55					
70	o-Xylene	10.006	0.1	1650344	1.301	1.301	15.150	15.149	8.43					
71	Styrene	10.533	5.3	1309154	1.032	0.980	15.224	15.217	7.59					
72	1,2-DICHLOROBENZENE-D4	10.000	0	456225	1	1	19.101	19.106	0					
73	Isopropylbenzene	9.833	-1.7	1970393	4.319	4.392	15.831	15.834	9.38					
74	Bromoform	10.479	4.8	176880	0.388	0.370	15.860	15.868	8.94					
75	1,1,2,2-Tetrachloroethane	10.086	0.9	329499	0.722	0.716	16.156	16.160	6.57					
76	4-Bromofluorobenzene	11.186	11.9	578733	1.269	1.134	16.319	16.318	7.80					
77	1,2,3-Trichloropropane	9.842	-1.6	80909	0.177	0.180	16.452	16.451	14.17					
78	trans-1,4-Dichloro-2-butene	9.620	-3.8	81130	0.178	0.185	16.585	16.584	7.64					
79	n-Propylbenzene	9.741	-2.6	2591820	5.681	5.832	16.615	16.611	9.03					
80	Bromobenzene	10.184	1.8	426714	0.935	0.918	16.704	16.700	5.85					
81	1,3,5-Trimethylbenzene	9.986	-0.1	1574680	3.452	3.456	16.926	16.923	9.31					
82	2-Chlorotoluene	9.790	-2.1	1585311	3.475	3.549	16.955	16.957	8.13					
83	4-Chlorotoluene	10.102	1.0	1408398	3.087	3.056	17.044	17.050	8.71					
84	tert-Butylbenzene	9.877	-1.2	353763	0.775	0.785	17.621	17.620	8.82					
85	1,2,4-Trimethylbenzene	10.012	0.1	1559834	3.419	3.415	17.695	17.694	7.81					
86	sec-Butylbenzene	9.743	-2.6	2139958	4.691	4.814	18.021	18.020	9.57					
87	p-Isopropyltoluene	9.794	-2.1	1641999	3.599	3.675	18.257	18.256	9.11					
88	1,3-Dichlorobenzene	10.097	1.0	854259	1.872	1.854	18.420	18.416	6.67					
89	1,4-Dichlorobenzene	10.085	0.8	819779	1.797	1.782	18.583	18.586	6.58					
90	n-Butylbenzene	9.579	-4.2	1683787	3.691	3.853	18.908	18.906	10.13					
91	1,2-Dichlorobenzene	10.127	1.3	695958	1.525	1.506	19.145	19.144	6.68					
92	1,2-Dibromo-3-chloropropane	10.405	4.0	42380	0.093	0.089	20.196	20.193	5.97					
93	1,2,4-Trichlorobenzene	9.901	-1.0	413970	0.907	0.916	21.335	21.334	6.51					
94	Hexachlorobutadiene	9.621	-3.8	256822	0.563	0.585	21.513	21.514	7.65					
95	Naphthalene	10.187	1.9	493053	1.081	1.061	21.705	21.702	6.04					
96	1,2,3-Trichlorobenzene	9.814	-1.9	328132	0.719	0.733	22.030	22.038	7.34					

Spike Amount = Nominal Amount * M

Sq 2/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	10.000	9.811	1.9	90	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	97	0.00
4	P,T	Chloromethane	10.000	10.420	-4.2	97	0.00
5	C,T	Vinyl chloride	10.000	8.919	10.8	94	-0.01
6	T	Bromomethane	10.000	10.831	-8.3	100	0.00
7	T	Chloroethane	10.000	10.651	-6.5	100	0.00
8	T	Dichlorofluoromethane	10.000	10.136	-1.4	99	0.00
9	T	Trichlorofluoromethane	10.000	10.078	-0.8	96	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	101	0.00
11	T	Acrolein	50.000	51.451	-2.9	100	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.530	4.7	90	0.00
13	T	Acetone	50.000	51.089	-2.2	101	0.00
14	C,T	1,1-Dichloroethene	10.000	9.961	0.4	97	0.00
15	T	tert-Butyl alcohol	50.000	55.129	-10.3	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	10.423	-4.2	99	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	103	0.02
19	T	Methylene chloride	10.000	9.456	5.4	97	0.00
20	T	Carbon disulfide	10.000	10.804	-8.0	96	0.00
21	T	Acrylonitrile	50.000	50.918	-1.8	101	0.00
22	T	tert-Butyl methyl ether (MT	10.000	10.408	-4.1	100	0.00
23	T	trans-1,2-Dichloroethene	10.000	10.121	-1.2	99	0.00
24	T	Isopropyl ether (DIPE)	10.000	10.377	-3.8	100	0.00
25	T	Vinyl acetate	10.000	10.668	-6.7	102	0.00
26	P,T	1,1-Dichloroethane	10.000	10.193	-1.9	99	0.00
27	T	2-Butanol	-1.000	0.000	0.0	95	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	10.505	-5.1	101	0.00
29	T	2-Butanone	50.000	51.518	-3.0	103	0.02
30	T	2,2-Dichloropropane	10.000	8.922	10.8	88	0.02
31	T	cis-1,2-Dichloroethene	10.000	10.170	-1.7	98	0.00
32	C,T	Chloroform	10.000	10.272	-2.7	101	0.00
33	T	Bromochloromethane	10.000	10.525	-5.3	100	0.00
34	S	Dibromofluoromethane	10.000	11.205	-12.1	105	0.00
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.978	0.2	98	0.00
37	T	Cyclohexane	-1.000	0.000	0.0	100	0.00
38	T	1-Butanol	-1.000	0.000	0.0	102	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	10.885	-8.8	104	0.00
40	S	1,2-Dichloroethane-d4	10.000	11.265	-12.7	107	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~102~~	~~0.00~~

(#) = Out of Range

SS 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IV001L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.512	4.9	97	0.00
43	T	Carbon tetrachloride	10.000	9.429	5.7	95	0.00
44	T	1,2-Dichloroethane	10.000	10.351	-3.5	102	0.00
45	T	Benzene	10.000	9.992	0.1	100	0.00
46	T	Trichloroethene	10.000	10.051	-0.5	98	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	102	0.02
48	C,T	1,2-Dichloropropane	10.000	10.146	-1.5	101	0.00
49	T	1,4-Dioxane	200.000	210.064	-5.0	108	0.00
50	T	Bromodichloromethane	10.000	10.131	-1.3	99	0.00
51	T	Dibromomethane	10.000	10.150	-1.5	100	0.00
52	T	2-Chloroethyl vinyl ether	10.000	10.108	-1.1	101	0.00
53	T	4-Methyl-2-pentanone	50.000	50.616	-1.2	103	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.981	0.2	98	0.00
55	S	Toluene-d8	10.000	10.778	-7.8	105	0.00
56	C,T	Toluene	10.000	9.842	1.6	98	0.00
57	T	Ethyl methacrylate	10.000	10.442	-4.4	101	0.00
58	T	trans-1,3-Dichloropropene	10.000	10.202	-2.0	100	0.00
59	T	2-Hexanone	50.000	50.525	-1.0	102	0.00
60	T	1,1,2-Trichloroethane	10.000	10.315	-3.1	101	0.00
61	T	1,3-Dichloropropane	10.000	10.316	-3.2	101	0.00
62	T	Tetrachloroethene	10.000	9.721	2.8	97	0.00
63	T	Dibromochloromethane	10.000	10.420	-4.2	101	0.00
64	T	1,2-Dibromoethane	10.000	10.304	-3.0	101	0.00
65	T	1-Chlorohexane	10.000	9.529	4.7	94	0.00
66	P	Chlorobenzene	10.000	10.157	-1.6	99	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	10.304	-3.0	101	0.00
68	C,T	Ethylbenzene	10.000	9.695	3.0	98	0.00
69	T	m-Xylene & p-Xylene	20.000	19.649	1.8	98	0.00
70	T	o-Xylene	10.000	10.006	-0.1	97	0.00
71	T	Styrene	10.000	10.533	-5.3	100	0.00
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	101	0.00
73	T	Isopropylbenzene	10.000	9.833	1.7	97	0.00
74	P,T	Bromoform	10.000	10.479	-4.8	100	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	10.000	10.086	-0.9	101	0.00
76	S	4-Bromofluorobenzene	10.000	11.186	-11.9	107	0.00
77	T	1,2,3-Trichloropropane	10.000	9.842	1.6	104	0.00
78	T	trans-1,4-Dichloro-2-butene	10.000	9.620	3.8	93	0.00
79	T	n-Propylbenzene	10.000	9.742	2.6	96	0.00
80	T	Bromobenzene	10.000	10.184	-1.8	100	0.00
81	T	1,3,5-Trimethylbenzene	10.000	9.986	0.1	98	0.00

(#) = Out of Range

SCN 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.790	2.1	100	0.00
83	T	4-Chlorotoluene	10.000	10.102	-1.0	96	-0.01
84	T	tert-Butylbenzene	10.000	9.877	1.2	97	0.00
85	T	1,2,4-Trimethylbenzene	10.000	10.012	-0.1	97	0.00
86	T	sec-Butylbenzene	10.000	9.743	2.6	96	0.00
87	T	p-Isopropyltoluene	10.000	9.794	2.1	95	0.00
88	T	1,3-Dichlorobenzene	10.000	10.097	-1.0	99	0.00
89	T	1,4-Dichlorobenzene	10.000	10.085	-0.9	98	0.00
90	T	n-Butylbenzene	10.000	9.579	4.2	93	0.00
91	T	1,2-Dichlorobenzene	10.000	10.127	-1.3	99	0.00
92	T	1,2-Dibromo-3-chloropropane	10.000	10.405	-4.0	102	0.00
93	T	1,2,4-Trichlorobenzene	10.000	9.901	1.0	98	0.00
94	T	Hexachlorobutadiene	10.000	9.621	3.8	94	-0.01
95	T	Naphthalene	10.000	10.187	-1.9	104	0.00
96	T	1,2,3-Trichlorobenzene	10.000	9.814	1.9	99	-0.01

SC 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IV001L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	100	0.00
2	T	Dichlorodifluoromethane	0.175	0.172	1.7	90	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	97	0.00
4	P,T	Chloromethane	0.342	0.356	-4.1	97	0.00
5	C,T	Vinyl chloride	0.292	0.260	11.0	94	-0.01
6	T	Bromomethane	0.217	0.235	-8.3	100	0.00
7	T	Chloroethane	0.227	0.241	-6.2	100	0.00
8	T	Dichlorofluoromethane	0.586	0.594	-1.4	99	0.00
9	T	Trichlorofluoromethane	0.332	0.335	-0.9	96	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	101	0.00
11	T	Acrolein	0.016	0.017	-6.3	100	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.152	4.4	90	0.00
13	T	Acetone	0.039	0.040	-2.6	101	0.00
14	C,T	1,1-Dichloroethene	0.460	0.458	0.4	97	0.00
15	T	tert-Butyl alcohol	0.015	0.016	-6.7	114	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.505	-4.1	99	0.00
18	T	Methyl acetate	0.000	0.000	0.0	103	0.02
19	T	Methylene chloride	0.479	0.453	5.4	97	0.00
20	T	Carbon disulfide	1.122	1.290	-15.0	96	0.00
21	T	Acrylonitrile	0.052	0.053	-1.9	101	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.473	-4.0	100	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.522	-1.2	99	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.313	-3.8	100	0.00
25	T	Vinyl acetate	0.465	0.496	-6.7	102	0.00
26	P,T	1,1-Dichloroethane	0.632	0.644	-1.9	99	0.00
27	T	2-Butanol	0.000	0.000	0.0	95	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.791	-5.0	101	0.00
29	T	2-Butanone	0.074	0.076	-2.7	103	0.02
30	T	2,2-Dichloropropane	0.381	0.340	10.8	88	0.02
31	T	cis-1,2-Dichloroethene	0.370	0.377	-1.9	98	0.00
32	C,T	Chloroform	0.545	0.560	-2.8	101	0.00
33	T	Bromochloromethane	0.274	0.288	-5.1	100	0.00
34	S	Dibromofluoromethane	0.300	0.336	-12.0	105	0.00
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.394	0.3	98	0.00
37	T	Cyclohexane	0.000	0.000	0.0	100	0.00
38	T	1-Butanol	0.000	0.000	0.0	102	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.122	-8.9	104	0.00
40	S	1,2-Dichloroethane-d4	0.234	0.264	-12.8	107	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~102~~	~~0.00~~

(#) = Out of Range

SK 12/16/10

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.183	4.7	97	0.00
43	T	Carbon tetrachloride	0.378	0.357	5.6	95	0.00
44	T	1,2-Dichloroethane	0.335	0.347	-3.6	102	0.00
45	T	Benzene	1.557	1.556	0.1	100	0.00
46	T	Trichloroethene	0.413	0.415	-0.5	98	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	102	0.02
48	C,T	1,2-Dichloropropane	0.430	0.436	-1.4	101	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	108	0.00
50	T	Bromodichloromethane	0.460	0.466	-1.3	99	0.00
51	T	Dibromomethane	0.164	0.167	-1.8	100	0.00
52	T	2-Chloroethyl vinyl ether	0.106	0.108	-1.9	101	0.00
53	T	4-Methyl-2-pentanone	0.220	0.223	-1.4	103	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.580	0.2	98	0.00
55	S	Toluene-d8	1.303	1.404	-7.8	105	0.00
56	C,T	Toluene	1.591	1.565	1.6	98	0.00
57	T	Ethyl methacrylate	0.310	0.324	-4.5	101	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.418	-2.2	100	0.00
59	T	2-Hexanone	0.137	0.139	-1.5	102	0.00
60	T	1,1,2-Trichloroethane	0.220	0.227	-3.2	101	0.00
61	T	1,3-Dichloropropane	0.431	0.445	-3.2	101	0.00
62	T	Tetrachloroethene	0.311	0.302	2.9	97	0.00
63	T	Dibromochloromethane	0.271	0.282	-4.1	101	0.00
64	T	1,2-Dibromoethane	0.216	0.222	-2.8	101	0.00
65	T	1-Chlorohexane	0.651	0.621	4.6	94	0.00
66	P	Chlorobenzene	0.952	0.967	-1.6	99	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.316	-2.9	101	0.00
68	C,T	Ethylbenzene	1.813	1.758	3.0	98	0.00
69	T	m-Xylene & p-Xylene	1.332	1.309	1.7	98	0.00
70	T	o-Xylene	1.301	1.301	0.0	97	0.00
71	T	Styrene	0.980	1.032	-5.3	100	0.00
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	101	0.00
73	T	Isopropylbenzene	4.392	4.319	1.7	97	0.00
74	P,T	Bromoform	0.370	0.388	-4.9	100	-0.01
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.722	-0.8	101	0.00
76	S	4-Bromofluorobenzene	1.134	1.269	-11.9	107	0.00
77	T	1,2,3-Trichloropropane	0.180	0.177	1.7	104	0.00
78	T	trans-1,4-Dichloro-2-butene	0.185	0.178	3.8	93	0.00
79	T	n-Propylbenzene	5.832	5.681	2.6	96	0.00
80	T	Bromobenzene	0.918	0.935	-1.9	100	0.00
81	T	1,3,5-Trimethylbenzene	3.456	3.452	0.1	98	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.475	2.1	100	0.00
83	T	4-Chlorotoluene	3.056	3.087	-1.0	96	-0.01
84	T	tert-Butylbenzene	0.785	0.775	1.3	97	0.00
85	T	1,2,4-Trimethylbenzene	3.415	3.419	-0.1	97	0.00
86	T	sec-Butylbenzene	4.814	4.691	2.6	96	0.00
87	T	p-Isopropyltoluene	3.675	3.599	2.1	95	0.00
88	T	1,3-Dichlorobenzene	1.854	1.872	-1.0	99	0.00
89	T	1,4-Dichlorobenzene	1.782	1.797	-0.8	98	0.00
90	T	n-Butylbenzene	3.853	3.691	4.2	93	0.00
91	T	1,2-Dichlorobenzene	1.506	1.525	-1.3	99	0.00
92	T	1,2-Dibromo-3-chloropropane	0.089	0.093	-4.5	102	0.00
93	T	1,2,4-Trichlorobenzene	0.916	0.907	1.0	98	0.00
94	T	Hexachlorobutadiene	0.585	0.563	3.8	94	-0.01
95	T	Naphthalene	1.061	1.081	-1.9	104	0.00
96	T	1,2,3-Trichlorobenzene	0.733	0.719	1.9	99	-0.01

SCW 12/16/10

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.82	114	1441268	10.00 ug/l	0.00
41) CHLOROBENZENE-D5	14.03	117	1268187	10.00 ug/l	0.00
72) 1,2-DICHLOROBENZENE-D4	19.10	152	456225	10.00 ug/l	0.00
System Monitoring Compounds					
34) Dibromofluoromethane	7.47	111	483875	11.20 ug/l	0.00
Spiked Amount 10.000			Recovery	= 112.00%	
40) 1,2-Dichloroethane-d4	8.21	65	380481	11.27 ug/l	0.00
Spiked Amount 10.000			Recovery	= 112.70%	
55) Toluene-d8	11.32	98	1780332	10.78 ug/l	0.00
Spiked Amount 10.000			Recovery	= 107.80%	
76) 4-Bromofluorobenzene	16.32	95	578733	11.19 ug/l	0.00
Spiked Amount 10.000			Recovery	= 111.90%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	2.22	85	247380	9.81 ug/l	98
4) Chloromethane	2.48	50	513603	10.42 ug/l	98
5) Vinyl chloride	2.65	62	375385	8.92 ug/l	100
6) Bromomethane	3.18	94	338949	10.83 ug/l	99
7) Chloroethane	3.25	64	347910	10.65 ug/l	100
8) Dichlorofluoromethane	3.34	67	855719	10.14 ug/l	100
9) Trichlorofluoromethane	3.64	101	482948	10.08 ug/l	99
11) Acrolein	4.14	56	119492	51.45 ug/l	89
12) 1,1,2-Trichloro-1,2,2-trif	4.20	151	218750	9.53 ug/l	99
13) Acetone	4.23	43	290469	51.09 ug/l	100
14) 1,1-Dichloroethene	4.39	61	660776	9.96 ug/l	99
15) tert-Butyl alcohol	4.53	59	116541	55.13 ug/l	93
17) Iodomethane	4.81	142	728506	10.42 ug/l	100
19) Methylene chloride	5.04	49	652718	9.46 ug/l	99
20) Carbon disulfide	5.07	76	1858853	10.80 ug/l	100
21) Acrylonitrile	5.21	53	383180	50.92 ug/l	99
22) tert-Butyl methyl ether (M	5.27	73	682062	10.41 ug/l	100
23) trans-1,2-Dichloroethene	5.44	61	752336	10.12 ug/l	100
24) Isopropyl ether (DIPE)	5.89	45	1892189	10.38 ug/l	100
25) Vinyl acetate	6.04	43	714287	10.67 ug/l	98
26) 1,1-Dichloroethane	6.05	63	928069	10.19 ug/l	99
28) tert-Butyl ethyl ether (ET	6.48	59	1140580	10.50 ug/l	100
29) 2-Butanone	6.66	43	548469	51.52 ug/l	99
30) 2,2-Dichloropropane	6.86	77	489415	8.92 ug/l	99
31) cis-1,2-Dichloroethene	6.92	96	542952	10.17 ug/l	99
32) Chloroform	7.15	83	807078	10.27 ug/l	100
33) Bromochloromethane	7.38	49	415030	10.53 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.75	97	568490	9.98 ug/l	99
39) tert-Amyl methyl ether (TA	8.17	87	175207	10.88 ug/l	96
42) 1,1-Dichloropropene	7.97	110	231678	9.51 ug/l	100
43) Carbon tetrachloride	8.14	119	452292	9.43 ug/l	99
44) 1,2-Dichloroethane	8.36	62	440019	10.35 ug/l	99
45) Benzene	8.39	78	1972794	9.99 ug/l	100
46) Trichloroethene	9.34	130	526161	10.05 ug/l	99
48) 1,2-Dichloropropane	9.62	63	552765	10.15 ug/l	100
49) 1,4-Dioxane	10.06	88	36160	210.06 ug/l	86
50) Bromodichloromethane	10.00	83	590694	10.13 ug/l	99
51) Dibromomethane	10.09	93	211627	10.15 ug/l	98
52) 2-Chloroethyl vinyl ether	10.49	63	136461	10.11 ug/l	99
53) 4-Methyl-2-pentanone	10.55	43	1413511	50.62 ug/l	99
54) cis-1,3-Dichloropropene	10.89	75	735398	9.98 ug/l	99
56) Toluene	11.45	91	1985249	9.84 ug/l	100
57) Ethyl methacrylate	11.73	69	410458	10.44 ug/l	100
58) trans-1,3-Dichloropropene	11.75	75	529496	10.20 ug/l	99
59) 2-Hexanone	12.04	43	878349	50.52 ug/l	100
60) 1,1,2-Trichloroethane	12.03	97	287381	10.31 ug/l	99
61) 1,3-Dichloropropane	12.47	76	564370	10.32 ug/l	100
62) Tetrachloroethene	12.61	164	383027	9.72 ug/l	100
63) Dibromochloromethane	12.96	129	357574	10.42 ug/l	100
64) 1,2-Dibromoethane	13.33	107	281963	10.30 ug/l	97
65) 1-Chlorohexane	13.61	91	786927	9.53 ug/l	100
66) Chlorobenzene	14.08	112	1226175	10.16 ug/l	100
67) 1,1,1,2-Tetrachloroethane	14.17	131	400565	10.30 ug/l	99
68) Ethylbenzene	14.19	91	2229329	9.70 ug/l	100
69) m-Xylene & p-Xylene	14.32	91	3319552	19.65 ug/l	100
70) o-Xylene	15.15	91	1650344	10.01 ug/l	100
71) Styrene	15.22	104	1309154	10.53 ug/l	100
73) Isopropylbenzene	15.83	105	1970393	9.83 ug/l	100
74) Bromoform	15.86	173	176880	10.48 ug/l	100
75) 1,1,2,2-Tetrachloroethane	16.16	83	329499	10.09 ug/l	100
77) 1,2,3-Trichloropropane	16.45	110	80909	9.84 ug/l	99
78) trans-1,4-Dichloro-2-buten	16.59	53	81130	9.62 ug/l	99
79) n-Propylbenzene	16.61	91	2591820	9.74 ug/l	100
80) Bromobenzene	16.70	156	426714	10.18 ug/l	98
81) 1,3,5-Trimethylbenzene	16.93	105	1574680	9.99 ug/l	100
82) 2-Chlorotoluene	16.96	91	1585311	9.79 ug/l	96
83) 4-Chlorotoluene	17.04	91	1408398	10.10 ug/l	95
84) tert-Butylbenzene	17.62	134	353763	9.88 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00

Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.70	105	1559834	10.01 ug/l	100
86) sec-Butylbenzene	18.02	105	2139958	9.74 ug/l	100
87) p-Isopropyltoluene	18.26	119	1641999	9.79 ug/l	100
88) 1,3-Dichlorobenzene	18.42	146	854259	10.10 ug/l	100
89) 1,4-Dichlorobenzene	18.58	146	819779	10.08 ug/l	100
90) n-Butylbenzene	18.91	91	1683787	9.58 ug/l	99
91) 1,2-Dichlorobenzene	19.15	146	695958	10.13 ug/l	99
92) 1,2-Dibromo-3-chloropropan	20.20	157	42380	10.40 ug/l	99
93) 1,2,4-Trichlorobenzene	21.33	180	413970	9.90 ug/l	100
94) Hexachlorobutadiene	21.51	225	256822	9.62 ug/l	99
95) Naphthalene	21.70	128	493053	10.19 ug/l	99
96) 1,2,3-Trichlorobenzene	22.03	180	328132	9.81 ug/l	99

SS 12/16/10

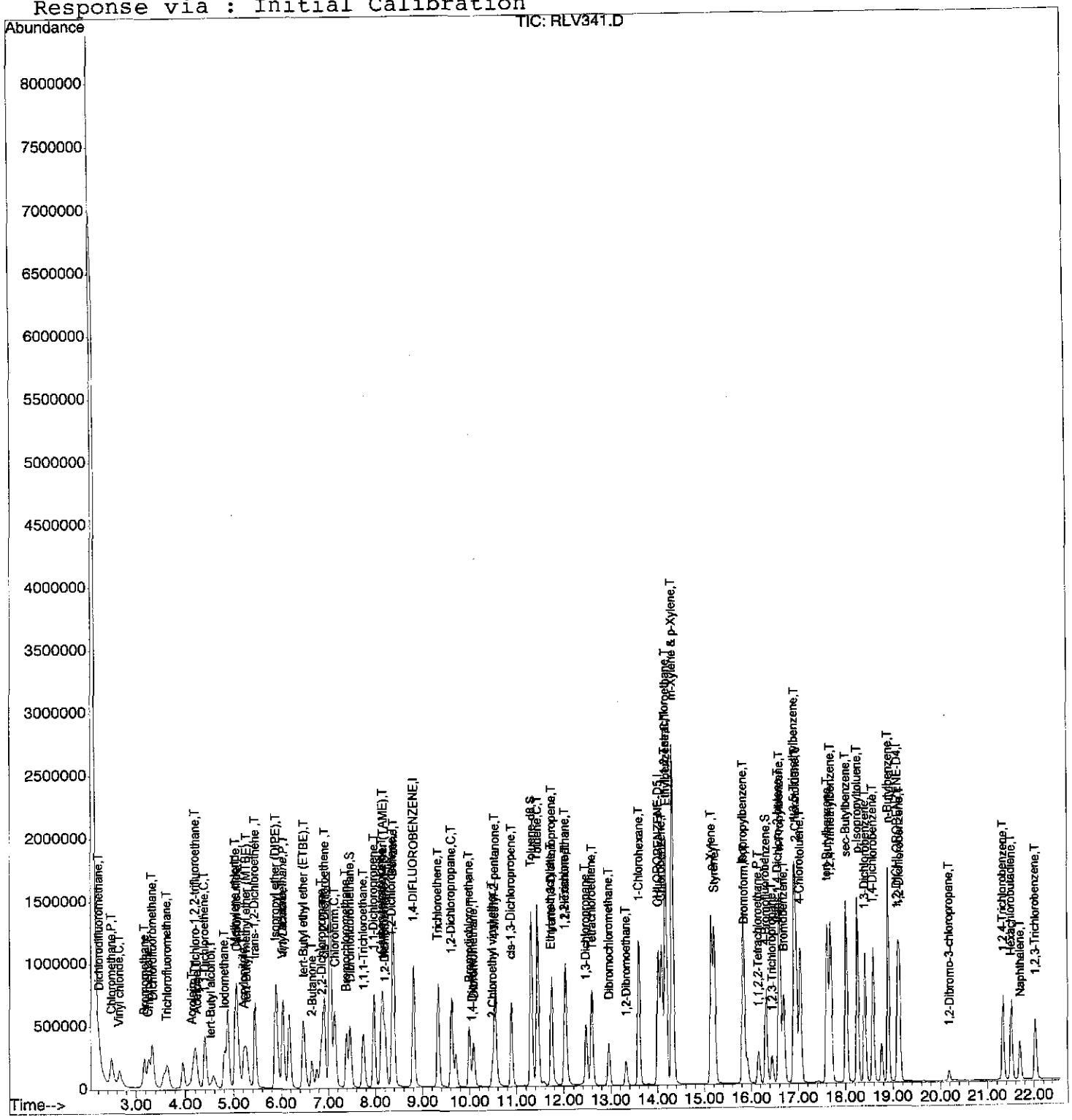
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\10L11\RLV341.D
Acq On : 11 Dec 2010 5:01 pm
Sample : IVO01L1101
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Dec 13 8:04 2010

Vial: 15
Operator: DN
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :T003
IC_Beginning DateTime :02/16/11 15:43
Spike Amount :10 PPB
CC/CV File :RBB369
IC File :RBB361

Column Spec :RTX502.2 ID :0.32MM
IC_Ending DateTime :02/16/11 21:52
HPChem Method :V003B16
Date_Time :02/16/11 23:44

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	10.000	0	1749022	1	1	13.420	13.432	0				
	2	Dichlorodifluoromethane	10.099	1.0	749830	0.429	0.424	3.592	3.587	7.98				
	3	Dichlorotetrafluoroethane												
	4	Chloromethane	10.302	3.0	781289	0.447	0.434	4.084	4.081	10.18				
	5	Vinyl chloride	10.001	0.0	670749	0.383	0.383	4.337	4.341	9.42				
	6	Bromomethane	9.478	-5.2	468375	0.268	0.283	5.290	5.286	13.37				
	7	Chloroethane	9.480	-5.2	277787	0.159	0.168	5.454	5.455	13.61				
	8	Dichlorofluoromethane	10.547	5.5	1272394	0.727	0.690	5.528	5.536	14.68				
	9	Trichlorofluoromethane	10.340	3.4	967672	0.553	0.535	6.019	6.005	13.07				
5	10	Acrolein	42.533	-14.9	64305	0.007	0.009	6.883	6.884	14.42				
	11	1,1,2-Trichloro-1,2,2-trifluoroethane	10.154	1.5	385778	0.221	0.217	6.943	6.942	4.44				
5	12	Acetone	46.555	-6.9	338109	0.039	0.042	7.002	7.009	9.70				
	13	1,1-Dichloroethene	10.291	2.9	1148879	0.657	0.638	7.330	7.338	4.13				
5	14	tert-Butyl alcohol	48.434	-3.1	99581	0.011	0.012	7.434	7.455	14.23				
10	15	Acetonitrile	85.975	-14.0	40107	0.002	0.003	7.613	7.607	14.88				
	16	Methyl acetate												
	17	Iodomethane	10.180	1.8	1095641	0.626	0.615	8.045	8.052	7.16				
	18	Methylene chloride	9.684	-3.2	738634	0.422	0.436	8.417	8.425	5.52				
	19	Carbon disulfide	11.000	10.0	2127656	1.216	1.106	8.491	8.502	11.02				
5	20	Acrylonitrile	51.074	2.1	297723	0.034	0.033	8.655	8.662	14.37				
	21	tert-Butyl methyl ether (MTBE)	10.167	1.7	828708	0.474	0.466	8.700	8.705	10.15				
	22	trans-1,2-Dichloroethene	10.341	3.4	1095453	0.626	0.606	9.042	9.055	7.62				
	23	Isopropyl ether (DIPE)	10.124	1.2	1968042	1.125	1.111	9.653	9.663	8.30				
	24	Vinyl acetate	8.907	-10.9	509661	0.291	0.327	9.906	9.908	7.48				
	25	1,1-Dichloroethane	10.351	3.5	1254295	0.717	0.693	9.936	9.943	8.06				
5	26	2-Butanol	50.698	1.4	68054	0.008	0.008	10.338	10.349	11.58				
	27	tert-Butyl ethyl ether (ETBE)	10.409	4.1	1412487	0.808	0.776	10.487	10.492	10.75				
5	28	2-Butanone	51.245	2.5	567754	0.065	0.063	10.740	10.753	7.90				
	29	2,2-Dichloropropane	9.794	-2.1	618445	0.354	0.361	11.052	11.062	6.44				
	30	cis-1,2-Dichloroethene	10.430	4.3	711330	0.407	0.390	11.157	11.158	9.43				
	31	Chloroform	10.205	2.0	1479989	0.846	0.829	11.455	11.458	6.25				
	32	Bromochloromethane	10.409	4.1	554166	0.317	0.304	11.782	11.782	8.43				
	33	Tetrahydrofuran	9.240	-7.6	58777	0.034	0.036	11.812	11.827	10.17				
	34	Dibromofluoromethane	10.547	5.5	791864	0.453	0.429	11.857	11.869	8.48				
	35	1,1,1-Trichloroethane	10.630	6.3	1244876	0.712	0.670	12.214	12.217	9.37				
	36	Cyclohexane												
	37	tert-Amyl methyl ether (TAME)	10.331	3.3	236578	0.135	0.131	12.646	12.656	10.88				
	38	1,2-Dichloroethane-d4	10.409	4.1	765700	0.438	0.421	12.780	12.780	5.74				
	39	CHLOROBENZENE-D5	10.000	0	1643555	1	1	18.542	18.549	0				
	40	1,1-Dichloropropene	9.807	-1.9	320978	0.195	0.199	12.497	12.496	4.41				
	41	Carbon tetrachloride	10.135	1.4	1194637	0.727	0.717	12.691	12.697	10.99				
	42	1,2-Dichloroethane	9.996	-0.0	884667	0.538	0.538	12.944	12.951	7.83				
	43	Benzene	9.614	-3.9	2512503	1.529	1.590	12.988	12.999	4.74				
	44	Trichloroethene	10.060	0.6	720386	0.438	0.436	14.045	14.050	5.43				
	45	Methylcyclohexane												
	46	1,2-Dichloropropane	10.034	0.3	638538	0.389	0.387	14.343	14.344	6.05				
20	47	1,4-Dioxane	172.228	-13.9	31953	0.001	0.001	14.731	14.744	14.76				
	48	Bromodichloromethane	10.162	1.6	1044916	0.636	0.626	14.745	14.754	14.13				
	49	Dibromomethane	10.020	0.2	383959	0.234	0.233	14.865	14.866	9.21				
	50	2-Chloroethyl vinyl ether												
5	51	4-Methyl-2-pentanone	51.086	2.2	1636642	0.199	0.195	15.207	15.211	9.79				
	52	cis-1,3-Dichloropropene	10.175	1.8	973350	0.592	0.582	15.609	15.620	12.72				
	53	Toluene-d8	10.298	3.0	2564445	1.560	1.515	16.041	16.048	5.31				
	54	Toluene	9.922	-0.8	2864671	1.743	1.757	16.175	16.181	5.15				
	55	Ethyl methacrylate	10.561	5.6	460709	0.280	0.265	16.309	16.318	13.25				
	56	trans-1,3-Dichloropropene	11.785	17.8	796862	0.485	0.411	16.413	16.425	14.83				
5	57	2-Hexanone	52.059	4.1	1116881	0.136	0.131	16.622	16.626	11.38				
	58	1,1,2-Trichloroethane	10.267	2.7	375071	0.228	0.222	16.696	16.711	7.35				
	59	1,3-Dichloropropane	10.187	1.9	693598	0.422	0.414	17.113	17.113	7.64				
	60	Tetrachloroethene	9.991	-0.1	691980	0.421	0.421	17.262	17.270	4.57				

SU 2/18/11

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61	Dibromochloromethane	11.763	17.6	550913	0.335	0.285	17.619	17.628	13.38				
62	1,2-Dibromoethane	10.453	4.5	442767	0.269	0.258	17.947	17.958	11.52				
63	1-Chlorohexane	10.246	2.5	1300536	0.791	0.772	18.051	18.062	4.61				
64	Chlorobenzene	10.123	1.2	1698436	1.033	1.021	18.602	18.616	4.58				
65	1,1,1,2-Tetrachloroethane	10.427	4.3	640525	0.390	0.374	18.647	18.654	11.37				
66	Ethylbenzene	10.037	0.4	3721815	2.264	2.256	18.632	18.644	5.37				
2 67	m-Xylene & p-Xylene	20.635	3.2	5901412	1.795	1.740	18.751	18.759	2.39				
68	o-Xylene	10.233	2.3	2895048	1.761	1.721	19.481	19.490	4.47				
69	Styrene	10.631	6.3	1926091	1.172	1.102	19.525	19.538	7.64				
70	1,2-DICHLOROBENZENE-D4	10.000	0	674833	1	1	23.099	23.110	0				
71	Isopropylbenzene	9.737	-2.6	3279090	4.859	4.990	20.017	20.033	5.22				
72	Bromoform	9.764	-2.4	288141	0.427	0.373	20.195	20.196	20.08	-0.0143	0.4520		0.9974
73	1,1,2,2-Tetrachloroethane	9.728	-2.7	431369	0.639	0.657	20.315	20.319	8.92				
74	4-Bromofluorobenzene	9.910	-0.9	1028409	1.524	1.538	20.478	20.489	6.50				
75	1,2,3-Trichloropropane	10.043	0.4	106866	0.158	0.158	20.553	20.566	11.35				
76	trans-1,4-Dichloro-2-butene	10.019	0.2	101914	0.151	0.127	20.597	20.609	22.13	-0.0090	0.1597		0.9971
77	n-Propylbenzene	9.945	-0.6	4686763	6.945	6.983	20.672	20.684	4.56				
78	Bromobenzene	9.838	-1.6	733918	1.088	1.105	20.865	20.876	7.55				
79	1,3,5-Trimethylbenzene	9.889	-1.1	2877241	4.264	4.311	20.910	20.918	5.24				
80	2-Chlorotoluene	10.265	2.7	2964419	4.393	4.279	21.044	21.050	6.21				
81	4-Chlorotoluene	9.236	-7.6	2216088	3.284	3.555	21.104	21.107	10.04				
82	tert-Butylbenzene	9.978	-0.2	491197	0.728	0.729	21.506	21.524	5.39				
83	1,2,4-Trimethylbenzene	9.934	-0.7	2770016	4.105	4.132	21.580	21.586	4.15				
84	sec-Butylbenzene	10.056	0.6	3763397	5.577	5.546	21.863	21.865	4.45				
85	p-Isopropyltoluene	10.155	1.5	2815850	4.173	4.109	22.057	22.061	4.33				
86	1,3-Dichlorobenzene	10.146	1.5	1284781	1.904	1.876	22.340	22.344	5.60				
87	1,4-Dichlorobenzene	10.057	0.6	1200850	1.779	1.769	22.503	22.509	5.99				
88	n-Butylbenzene	10.369	3.7	3306778	4.900	4.725	22.727	22.734	6.21				
89	1,2-Dichlorobenzene	10.072	0.7	1015132	1.504	1.493	23.144	23.157	4.60				
90	1,2-Dibromo-3-chloropropane	10.328	3.3	51699	0.077	0.074	24.439	24.448	12.09				
91	1,2,4-Trichlorobenzene	11.022	10.2	609614	0.903	0.820	26.047	26.053	10.68				
92	Hexachlorobutadiene	10.433	4.3	530798	0.787	0.754	26.256	26.261	4.24				
93	Naphthalene	10.435	4.4	676216	1.002	0.960	26.643	26.647	10.58				
94	1,2,3-Trichlorobenzene	10.877	8.8	448659	0.665	0.611	27.119	27.125	10.99				

Spike Amount = Nominal Amount * M

SW
2/18/11

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Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D Vial: 16
Acq On : 16 Feb 2011 11:44 pm Operator: MW
Sample : IVO03B161 10.0ppb Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	93	-0.01
2	T	Dichlorodifluoromethane	10.000	10.099	-1.0	85	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	10.000	10.303	-3.0	89	0.00
5	C,T	Vinyl chloride	10.000	10.001	-0.0	86	0.00
6	T	Bromomethane	10.000	9.479	5.2	81	0.00
7	T	Chloroethane	10.000	9.480	5.2	78	0.00
8	T	Dichlorofluoromethane	10.000	10.548	-5.5	100	-0.01
9	T	Trichlorofluoromethane	10.000	10.341	-3.4	86	0.02
10	T	Acrolein	50.000	42.534	14.9	91	0.00
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.154	-1.5	97	0.00
12	T	Acetone	50.000	46.555	6.9	99	0.00
13	C,T	1,1-Dichloroethene	10.000	10.291	-2.9	96	-0.01
14	T	tert-Butyl alcohol	50.000	48.435	3.1	106	-0.01
15	T	Acetonitrile	100.000	85.976	14.0	98	0.02
16	T	Methyl acetate	-1.000	0.000	0.0	109	-0.01
17	T	Iodomethane	10.000	10.180	-1.8	97	-0.01
18	T	Methylene chloride	10.000	9.685	3.1	96	-0.01
19	T	Carbon disulfide	10.000	11.001	-10.0	113	-0.01
20	T	Acrylonitrile	50.000	51.074	-2.1	97	0.00
21	T	tert-Butyl methyl ether (MT	10.000	10.167	-1.7	99	0.00
22	T	trans-1,2-Dichloroethene	10.000	10.341	-3.4	96	-0.01
23	T	Isopropyl ether (DIPE)	10.000	10.125	-1.3	96	-0.01
24	T	Vinyl acetate	10.000	8.908	10.9	79	0.00
25	P,T	1,1-Dichloroethane	10.000	10.351	-3.5	98	-0.01
26	T	2-Butanol	50.000	50.698	-1.4	100	-0.01
27	T	tert-Butyl ethyl ether (ETB	10.000	10.410	-4.1	102	0.00
28	T	2-Butanone	50.000	51.245	-2.5	99	-0.01
29	T	2,2-Dichloropropane	10.000	9.794	2.1	89	-0.01
30	T	cis-1,2-Dichloroethene	10.000	10.431	-4.3	99	0.00
31	C,T	Chloroform	10.000	10.206	-2.1	98	0.00
32	T	Bromochloromethane	10.000	10.409	-4.1	102	0.00
33	T	Tetrahydrofuran	10.000	9.240	7.6	97	-0.01
34	S	Dibromofluoromethane	10.000	10.547	-5.5	103	-0.01
35	T	1,1,1-Trichloroethane	10.000	10.630	-6.3	99	0.00
36	T	Cyclohexane	-1.000	0.000	0.0	48	-0.01
37	T	tert-Amyl methyl ether (TAM	10.000	10.332	-3.3	103	-0.01
38	S	1,2-Dichloroethane-d4	10.000	10.409	-4.1	104	0.00
39	I	CHLOROBENZENE-D5	10.000	10.000	0.0	96	-0.01
40	T	1,1-Dichloropropene	10.000	9.807	1.9	98	0.00

(#) = Out of Range

SU 2/18/11

2271

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D Vial: 16
Acq On : 16 Feb 2011 11:44 pm Operator: MW
Sample : IVO03B161 10.0ppb Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	10.136	-1.4	96	-0.01
42	T	1,2-Dichloroethane	10.000	9.996	0.0	101	-0.01
43	T	Benzene	10.000	9.614	3.9	99	-0.01
44	T	Trichloroethene	10.000	10.060	-0.6	101	0.00
45	T	Methylcyclohexane	-1.000	0.000	0.0	92	-0.01
46	C,T	1,2-Dichloropropane	10.000	10.034	-0.3	100	0.00
47	T	1,4-Dioxane	200.000	172.229	13.9	102	-0.01
48	T	Bromodichloromethane	10.000	10.162	-1.6	99	-0.01
49	T	Dibromomethane	10.000	10.021	-0.2	101	0.00
50	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.01
51	T	4-Methyl-2-pentanone	50.000	51.087	-2.2	103	0.00
52	T	cis-1,3-Dichloropropene	10.000	10.176	-1.8	97	-0.01
53	S	Toluene-d8	10.000	10.298	-3.0	106	-0.01
54	C,T	Toluene	10.000	9.922	0.8	98	0.00
55	T	Ethyl methacrylate	10.000	10.561	-5.6	102	-0.01
56	T	trans-1,3-Dichloropropene	10.000	11.786	-17.9	101	-0.01
57	T	2-Hexanone	50.000	52.060	-4.1	103	0.00
58	T	1,1,2-Trichloroethane	10.000	10.268	-2.7	102	-0.01
59	T	1,3-Dichloropropane	10.000	10.188	-1.9	103	0.00
60	T	Tetrachloroethene	10.000	9.992	0.1	99	-0.01
61	T	Dibromochloromethane	10.000	11.763	-17.6	102	0.00
62	T	1,2-Dibromoethane	10.000	10.454	-4.5	101	-0.01
63	T	1-Chlorohexane	10.000	10.247	-2.5	99	-0.01
64	P	Chlorobenzene	10.000	10.123	-1.2	100	-0.01
65	T	1,1,1,2-Tetrachloroethane	10.000	10.427	-4.3	103	-0.01
66	C,T	Ethylbenzene	10.000	10.038	-0.4	98	-0.01
67	T	m-Xylene & p-Xylene	20.000	20.636	-3.2	101	0.00
68	T	o-Xylene	10.000	10.233	-2.3	101	-0.01
69	T	Styrene	10.000	10.632	-6.3	102	-0.01
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	98	-0.01
71	T	Isopropylbenzene	10.000	9.737	2.6	99	-0.01
72	P,T	Bromoform	10.000	9.764	2.4	104	0.00
73	P,T	1,1,2,2-Tetrachloroethane	10.000	9.728	2.7	102	0.00
74	S	4-Bromofluorobenzene	10.000	9.910	0.9	108	-0.01
75	T	1,2,3-Trichloropropane	10.000	10.044	-0.4	107	-0.01
76	T	trans-1,4-Dichloro-2-butene	10.000	10.019	-0.2	104	-0.01
77	T	n-Propylbenzene	10.000	9.946	0.5	100	-0.01
78	T	Bromobenzene	10.000	9.839	1.6	103	-0.01
79	T	1,3,5-Trimethylbenzene	10.000	9.889	1.1	100	-0.01
80	T	2-Chlorotoluene	10.000	10.266	-2.7	113	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	9.237	7.6	88	0.00
82	T	tert-Butylbenzene	10.000	9.979	0.2	100	-0.01
83	T	1,2,4-Trimethylbenzene	10.000	9.934	0.7	100	0.00
84	T	sec-Butylbenzene	10.000	10.056	-0.6	101	0.00
85	T	p-Isopropyltoluene	10.000	10.155	-1.5	101	0.00
86	T	1,3-Dichlorobenzene	10.000	10.147	-1.5	102	0.00
87	T	1,4-Dichlorobenzene	10.000	10.057	-0.6	101	0.00
88	T	n-Butylbenzene	10.000	10.370	-3.7	98	-0.01
89	T	1,2-Dichlorobenzene	10.000	10.073	-0.7	103	-0.01
90	T	1,2-Dibromo-3-chloropropane	10.000	10.328	-3.3	102	-0.01
91	T	1,2,4-Trichlorobenzene	10.000	11.023	-10.2	104	0.00
92	T	Hexachlorobutadiene	10.000	10.433	-4.3	99	0.00
93	T	Naphthalene	10.000	10.435	-4.4	109	0.00
94	T	1,2,3-Trichlorobenzene	10.000	10.877	-8.8	104	0.00

SW 2/18/11

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	93	-0.01
2	T	Dichlorodifluoromethane	0.424	0.429	-1.2	85	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	85	0.00
4	P,T	Chloromethane	0.434	0.447	-3.0	89	0.00
5	C,T	Vinyl chloride	0.383	0.383	0.0	86	0.00
6	T	Bromomethane	0.283	0.268	5.3	81	0.00
7	T	Chloroethane	0.168	0.159	5.4	78	0.00
8	T	Dichlorofluoromethane	0.690	0.727	-5.4	100	-0.01
9	T	Trichlorofluoromethane	0.535	0.553	-3.4	86	0.02
10	T	Acrolein	0.009	0.007	22.2#	91	0.00
11	T	1,1,2-Trichloro-1,2,2-trifl	0.217	0.221	-1.8	97	0.00
12	T	Acetone	0.042	0.039	7.1	99	0.00
13	C,T	1,1-Dichloroethene	0.638	0.657	-3.0	96	-0.01
14	T	tert-Butyl alcohol	0.012	0.011	8.3	106	-0.01
15	T	Acetonitrile	0.003	0.002	33.3#	98	0.02
16	T	Methyl acetate	0.000	0.000	0.0	109	-0.01
17	T	Iodomethane	0.615	0.626	-1.8	97	-0.01
18	T	Methylene chloride	0.436	0.422	3.2	96	-0.01
19	T	Carbon disulfide	1.106	1.216	-9.9	113	-0.01
20	T	Acrylonitrile	0.033	0.034	-3.0	97	0.00
21	T	tert-Butyl methyl ether (MT	0.466	0.474	-1.7	99	0.00
22	T	trans-1,2-Dichloroethene	0.606	0.626	-3.3	96	-0.01
23	T	Isopropyl ether (DIPE)	1.111	1.125	-1.3	96	-0.01
24	T	Vinyl acetate	0.327	0.291	11.0	79	0.00
25	P,T	1,1-Dichloroethane	0.693	0.717	-3.5	98	-0.01
26	T	2-Butanol	0.008	0.008	0.0	100	-0.01
27	T	tert-Butyl ethyl ether (ETB	0.776	0.808	-4.1	102	0.00
28	T	2-Butanone	0.063	0.065	-3.2	99	-0.01
29	T	2,2-Dichloropropane	0.361	0.354	1.9	89	-0.01
30	T	cis-1,2-Dichloroethene	0.390	0.407	-4.4	99	0.00
31	C,T	Chloroform	0.829	0.846	-2.1	98	0.00
32	T	Bromochloromethane	0.304	0.317	-4.3	102	0.00
33	T	Tetrahydrofuran	0.036	0.034	5.6	97	-0.01
34	S	Dibromofluoromethane	0.429	0.453	-5.6	103	-0.01
35	T	1,1,1-Trichloroethane	0.670	0.712	-6.3	99	0.00
36	T	Cyclohexane	0.000	0.000	0.0	48#	-0.01
37	T	tert-Amyl methyl ether (TAM	0.131	0.135	-3.1	103	-0.01
38	S	1,2-Dichloroethane-d4	0.421	0.438	-4.0	104	0.00
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	96	-0.01
40	T	1,1-Dichloropropene	0.199	0.195	2.0	98	0.00

(#) = Out of Range

SC 2/18/11

2274

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D Vial: 16
Acq On : 16 Feb 2011 11:44 pm Operator: MW
Sample : IV003B161 10.0ppb Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.717	0.727	-1.4	96	-0.01
42	T	1,2-Dichloroethane	0.538	0.538	0.0	101	-0.01
43	T	Benzene	1.590	1.529	3.8	99	-0.01
44	T	Trichloroethene	0.436	0.438	-0.5	101	0.00
45	T	Methylcyclohexane	0.000	0.000	0.0	92	-0.01
46	C,T	1,2-Dichloropropane	0.387	0.389	-0.5	100	0.00
47	T	1,4-Dioxane	0.001	0.001	0.0	102	-0.01
48	T	Bromodichloromethane	0.626	0.636	-1.6	99	-0.01
49	T	Dibromomethane	0.233	0.234	-0.4	101	0.00
50	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.01
51	T	4-Methyl-2-pentanone	0.195	0.199	-2.1	103	0.00
52	T	cis-1,3-Dichloropropene	0.582	0.592	-1.7	97	-0.01
53	S	Toluene-d8	1.515	1.560	-3.0	106	-0.01
54	C,T	Toluene	1.757	1.743	0.8	98	0.00
55	T	Ethyl methacrylate	0.265	0.280	-5.7	102	-0.01
56	T	trans-1,3-Dichloropropene	0.411	0.485	-18.0	101	-0.01
57	T	2-Hexanone	0.131	0.136	-3.8	103	0.00
58	T	1,1,2-Trichloroethane	0.222	0.228	-2.7	102	-0.01
59	T	1,3-Dichloropropane	0.414	0.422	-1.9	103	0.00
60	T	Tetrachloroethene	0.421	0.421	0.0	99	-0.01
61	T	Dibromochloromethane	0.285	0.335	-17.5	102	0.00
62	T	1,2-Dibromoethane	0.258	0.269	-4.3	101	-0.01
63	T	1-Chlorohexane	0.772	0.791	-2.5	99	-0.01
64	P	Chlorobenzene	1.021	1.033	-1.2	100	-0.01
65	T	1,1,1,2-Tetrachloroethane	0.374	0.390	-4.3	103	-0.01
66	C,T	Ethylbenzene	2.256	2.264	-0.4	98	-0.01
67	T	m-Xylene & p-Xylene	1.740	1.795	-3.2	101	0.00
68	T	o-Xylene	1.721	1.761	-2.3	101	-0.01
69	T	Styrene	1.102	1.172	-6.4	102	-0.01
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	-0.01
71	T	Isopropylbenzene	4.990	4.859	2.6	99	-0.01
72	P,T	Bromoform	0.373	0.427	-14.5	104	0.00
73	P,T	1,1,2,2-Tetrachloroethane	0.657	0.639	2.7	102	0.00
74	S	4-Bromofluorobenzene	1.538	1.524	0.9	108	-0.01
75	T	1,2,3-Trichloropropane	0.158	0.158	0.0	107	-0.01
76	T	trans-1,4-Dichloro-2-butene	0.127	0.151	-18.9	104	-0.01
77	T	n-Propylbenzene	6.983	6.945	0.5	100	-0.01
78	T	Bromobenzene	1.105	1.088	1.5	103	-0.01
79	T	1,3,5-Trimethylbenzene	4.311	4.264	1.1	100	-0.01
80	T	2-Chlorotoluene	4.279	4.393	-2.7	113	0.00

(#) = Out of Range

SU 2/18/11

2275

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	3.555	3.284	7.6	88	0.00
82	T	tert-Butylbenzene	0.729	0.728	0.1	100	-0.01
83	T	1,2,4-Trimethylbenzene	4.132	4.105	0.7	100	0.00
84	T	sec-Butylbenzene	5.546	5.577	-0.6	101	0.00
85	T	p-Isopropyltoluene	4.109	4.173	-1.6	101	0.00
86	T	1,3-Dichlorobenzene	1.876	1.904	-1.5	102	0.00
87	T	1,4-Dichlorobenzene	1.769	1.779	-0.6	101	0.00
88	T	n-Butylbenzene	4.725	4.900	-3.7	98	-0.01
89	T	1,2-Dichlorobenzene	1.493	1.504	-0.7	103	-0.01
90	T	1,2-Dibromo-3-chloropropane	0.074	0.077	-4.1	102	-0.01
91	T	1,2,4-Trichlorobenzene	0.820	0.903	-10.1	104	0.00
92	T	Hexachlorobutadiene	0.754	0.787	-4.4	99	0.00
93	T	Naphthalene	0.960	1.002	-4.4	109	0.00
94	T	1,2,3-Trichlorobenzene	0.611	0.665	-8.8	104	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1749022	10.00 ug/l	-0.01
39) CHLOROBENZENE-D5	18.54	117	1643555	10.00 ug/l	-0.01
70) 1,2-DICHLOROBENZENE-D4	23.10	152	674833	10.00 ug/l	-0.01
System Monitoring Compounds					
34) Dibromofluoromethane	11.86	111	791864	10.55 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 105.50%	
38) 1,2-Dichloroethane-d4	12.78	65	765700	10.41 ug/l	0.00
Spiked Amount 10.000			Recovery	= 104.10%	
53) Toluene-d8	16.04	98	2564445	10.30 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 103.00%	
74) 4-Bromofluorobenzene	20.48	95	1028409	9.91 ug/l	-0.01
Spiked Amount 10.000			Recovery	= 99.10%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.59	85	749830	10.10 ug/l	98
4) Chloromethane	4.08	50	781289	10.30 ug/l	100
5) Vinyl chloride	4.34	62	670749	10.00 ug/l	99
6) Bromomethane	5.29	94	468375	9.48 ug/l	99
7) Chloroethane	5.45	64	277787	9.48 ug/l	92
8) Dichlorofluoromethane	5.53	67	1272394	10.55 ug/l	98
9) Trichlorofluoromethane	6.02	101	967672	10.34 ug/l	99
10) Acrolein	6.88	56	64305	42.53 ug/l	98
11) 1,1,2-Trichloro-1,2,2-trif	6.94	151	385778	10.15 ug/l	99
12) Acetone	7.00	43	338109	46.56 ug/l	94
13) 1,1-Dichloroethene	7.33	61	1148879	10.29 ug/l	99
14) tert-Butyl alcohol	7.43	59	99581	48.43 ug/l	93
15) Acetonitrile	7.61	39	40107	85.98 ug/l	96
17) Iodomethane	8.04	142	1095641	10.18 ug/l	98
18) Methylene chloride	8.42	49	738634	9.68 ug/l	98
19) Carbon disulfide	8.49	76	2127656	11.00 ug/l	100
20) Acrylonitrile	8.66	53	297723	51.07 ug/l	99
21) tert-Butyl methyl ether (M	8.70	73	828708	10.17 ug/l	98
22) trans-1,2-Dichloroethene	9.04	61	1095453	10.34 ug/l	98
23) Isopropyl ether (DIPE)	9.65	45	1968042	10.12 ug/l	100
24) Vinyl acetate	9.91	43	509661	8.91 ug/l	100
25) 1,1-Dichloroethane	9.94	63	1254295	10.35 ug/l	99
26) 2-Butanol	10.34	45	68054	50.70 ug/l	97
27) tert-Butyl ethyl ether (ET	10.49	59	1412487	10.41 ug/l	100
28) 2-Butanone	10.74	43	567754	51.25 ug/l	100
29) 2,2-Dichloropropane	11.05	77	618445	9.79 ug/l	98
30) cis-1,2-Dichloroethene	11.16	96	711330	10.43 ug/l	100

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

2277

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.45	83	1479989	10.21 ug/l	99
32) Bromochloromethane	11.78	49	554166	10.41 ug/l	99
33) Tetrahydrofuran	11.81	42	58777	9.24 ug/l	93
35) 1,1,1-Trichloroethane	12.21	97	1244876	10.63 ug/l	98
37) tert-Amyl methyl ether (TA	12.65	87	236578	10.33 ug/l	96
40) 1,1-Dichloropropene	12.50	110	320978	9.81 ug/l	99
41) Carbon tetrachloride	12.69	119	1194637	10.14 ug/l	99
42) 1,2-Dichloroethane	12.94	62	884667	10.00 ug/l	99
43) Benzene	12.99	78	2512503	9.61 ug/l	99
44) Trichloroethene	14.05	130	720386	10.06 ug/l	100
46) 1,2-Dichloropropane	14.34	63	638538	10.03 ug/l	100
47) 1,4-Dioxane	14.73	88	31953	172.23 ug/l	93
48) Bromodichloromethane	14.75	83	1044916	10.16 ug/l	98
49) Dibromomethane	14.86	93	383959	10.02 ug/l	99
51) 4-Methyl-2-pentanone	15.21	43	1636642	51.09 ug/l	99
52) cis-1,3-Dichloropropene	15.61	75	973350	10.18 ug/l	98
54) Toluene	16.17	91	2864671	9.92 ug/l	99
55) Ethyl methacrylate	16.31	69	460709	10.56 ug/l	99
56) trans-1,3-Dichloropropene	16.41	75	796862	11.79 ug/l	99
57) 2-Hexanone	16.62	43	1116881	52.06 ug/l	99
58) 1,1,2-Trichloroethane	16.70	97	375071	10.27 ug/l	99
59) 1,3-Dichloropropane	17.11	76	693598	10.19 ug/l	99
60) Tetrachloroethene	17.26	164	691980	9.99 ug/l	99
61) Dibromochloromethane	17.62	129	550913	11.76 ug/l	99
62) 1,2-Dibromoethane	17.95	107	442767	10.45 ug/l	100
63) 1-Chlorohexane	18.05	91	1300536	10.25 ug/l	99
64) Chlorobenzene	18.60	112	1698436	10.12 ug/l	99
65) 1,1,1,2-Tetrachloroethane	18.65	131	640525	10.43 ug/l	98
66) Ethylbenzene	18.63	91	3721815	10.04 ug/l	99
67) m-Xylene & p-Xylene	18.75	91	5901412	20.64 ug/l	99
68) o-Xylene	19.48	91	2895048	10.23 ug/l	99
69) Styrene	19.53	104	1926091	10.63 ug/l	99
71) Isopropylbenzene	20.02	105	3279090	9.74 ug/l	99
72) Bromoform	20.20	173	288141	9.76 ug/l	100
73) 1,1,2,2-Tetrachloroethane	20.31	83	431369	9.73 ug/l	100
75) 1,2,3-Trichloropropane	20.55	110	106866	10.04 ug/l	95
76) trans-1,4-Dichloro-2-buten	20.60	53	101914	10.02 ug/l	96
77) n-Propylbenzene	20.67	91	4686763	9.95 ug/l	99
78) Bromobenzene	20.87	156	733918	9.84 ug/l	97
79) 1,3,5-Trimethylbenzene	20.91	105	2877241	9.89 ug/l	99
80) 2-Chlorotoluene	21.04	91	2964419	10.27 ug/l	91

(#) = qualifier out of range (m) = manual integration

SU 2/18/11

2278

Quantitation Report (Not Reviewed)

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.10	91	2216088	9.24 ug/l	88
82) tert-Butylbenzene	21.51	134	491197	9.98 ug/l	99
83) 1,2,4-Trimethylbenzene	21.58	105	2770016	9.93 ug/l	100
84) sec-Butylbenzene	21.86	105	3763397	10.06 ug/l	100
85) p-Isopropyltoluene	22.06	119	2815850	10.16 ug/l	99
86) 1,3-Dichlorobenzene	22.34	146	1284781	10.15 ug/l	99
87) 1,4-Dichlorobenzene	22.50	146	1200850	10.06 ug/l	99
88) n-Butylbenzene	22.73	91	3306778	10.37 ug/l	99
89) 1,2-Dichlorobenzene	23.14	146	1015132	10.07 ug/l	100
90) 1,2-Dibromo-3-chloropropan	24.44	157	51699	10.33 ug/l	97
91) 1,2,4-Trichlorobenzene	26.05	180	609614	11.02 ug/l	99
92) Hexachlorobutadiene	26.26	225	530798	10.43 ug/l	98
93) Naphthalene	26.64	128	676216	10.43 ug/l	100
94) 1,2,3-Trichlorobenzene	27.12	180	448659	10.88 ug/l	100

SU 2/18/11

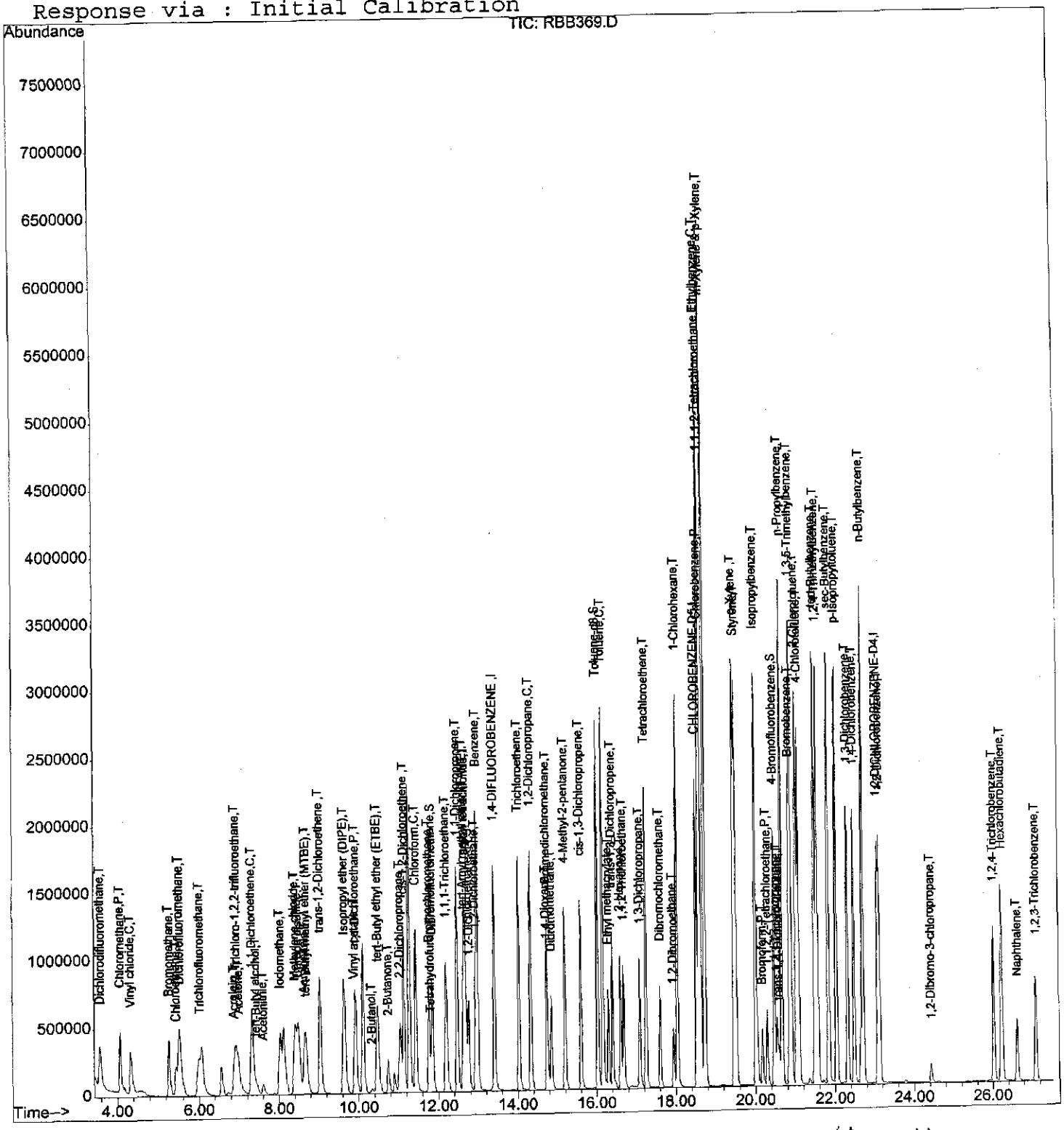
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B16\RBB369.D
Acq On : 16 Feb 2011 11:44 pm
Sample : IVO03B161 10.0ppb
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 17 8:37 2011

Vial: 16
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



SU 2/18/11

2280

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc — Contract: OPHA MOFFETT

Lab Code: EMXT — Case No.: — SAS No.: — SDG No.: 11B186

Lab File ID: RBV567 — BFB Injection Date : 02/22/11

Instrument ID: T001 — BFB Injection Time : 06:34

GC Column:RTX502.2ID:0.32mm (mm) — Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.16
75	30.0 - 60.0% of mass 95	45.13
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.67
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	72.66
175	5.0 - 9.0% of mass 174	5.65(7.8)1
176	95.0 - 101.0% of mass 174	72.70(100.1)1
177	5.0 - 9.0% of mass 176	4.78(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1167	RBV568	02/22/11	07:05
2	MBLK1W	V001B28B	RBV572	02/22/11	09:23
3	LCS1W	V001B28L	RBV569	02/22/11	07:43
4	LCD1W	V001B28C	RBV570	02/22/11	08:17
5	SSI-D-002	B186-10	RBV577	02/22/11	12:19
6	SSI-HP-008	B186-09	RBV578	02/22/11	12:50
7	SSI-HP-006	B186-07	RBV579	02/22/11	13:21
8	SSI-HP-003	B186-04	RBV581	02/22/11	14:26
9	SSI-HP-005	B186-06	RBV587	02/22/11	17:38

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1297270	8.79	1107700	14.00	394686	19.09
2	MBLK1W	1404040	8.79	1260325	13.98	426445	19.09
3	LCS1W	1301526	8.79	1144234	14.00	396621	19.09
4	LCD1W	1395338	8.79	1214348	13.99	423579	19.08
5	SSI-D-002	1272329	8.79	1134696	14.00	384317	19.09
6	SSI-HP-008	1385637	8.79	1205121	14.00	403768	19.09
7	SSI-HP-006	1371200	8.79	1212290	14.00	417835	19.09
8	SSI-HP-003	1372379	8.79	1205112	14.00	408947	19.09
9	SSI-HP-005	1319588	8.79	1133856	14.00	384170	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

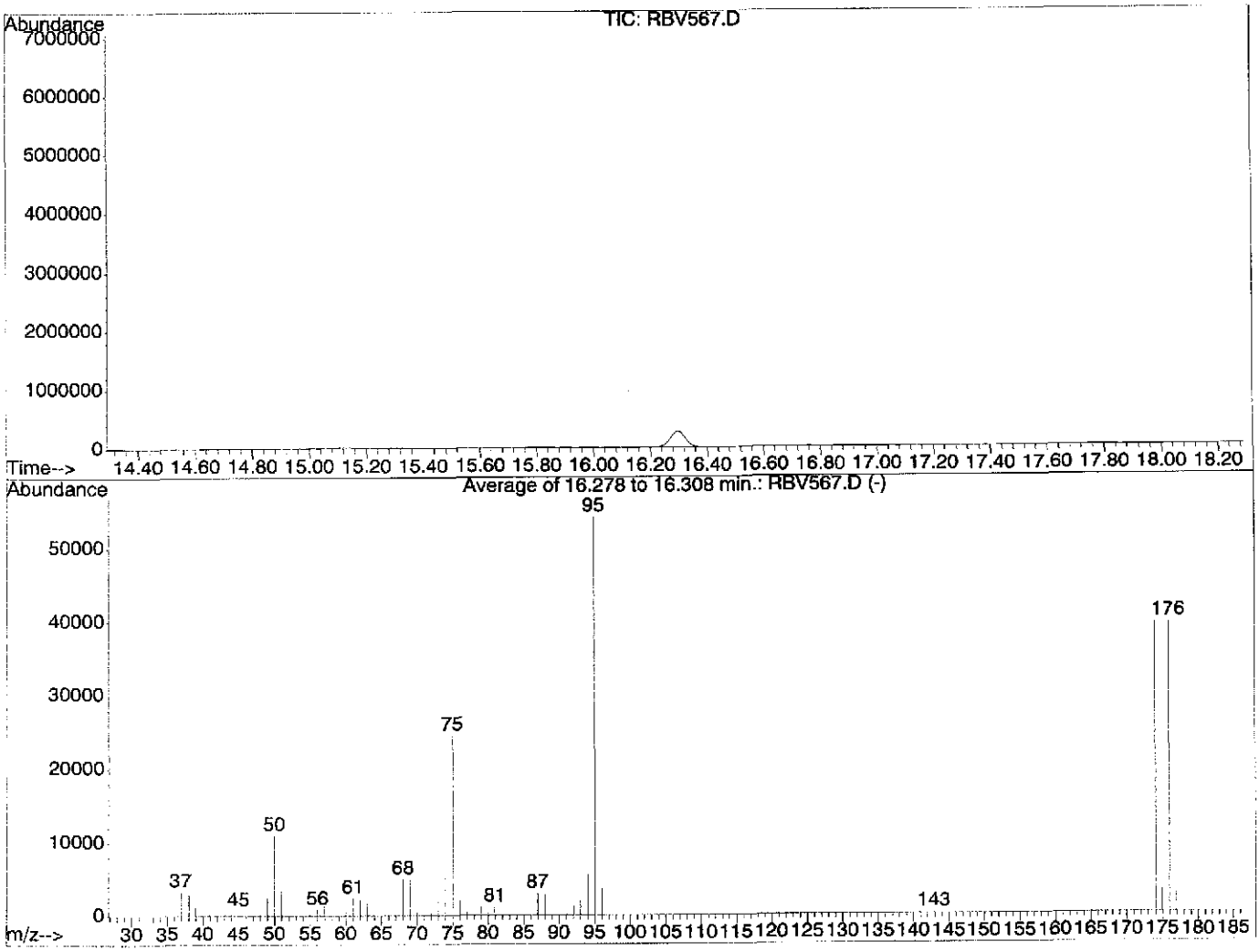
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

BFB

Data File : D:\HPCHEM\1\DATA\11B22\RBV567.D
Acq On : 22 Feb 2011 6:34 am
Sample : BFB01B28
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 956

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	10917	PASS
75	95	30	60	45.1	24435	PASS
95	95	100	100	100.0	54147	PASS
96	95	5	9	6.7	3613	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	72.7	39344	PASS
175	174	5	9	7.8	3058	PASS
176	174	95	101	100.1	39365	PASS
177	176	5	9	6.6	2591	PASS

RBV567.D VO01L11.M Tue Feb 22 11:00:49 2011

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 7:28 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1297270	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1107700	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	394686	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.44	111	367953	9.47	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	94.70%	
40) 1,2-Dichloroethane-d4	8.20	65	301712	9.92	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.20%	
55) Toluene-d8	11.29	98	1515237	10.50	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.00%	
76) 4-Bromofluorobenzene	16.29	95	459342	10.26	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	102.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.21	85	226027	9.96	ug/l	99
4) Chloromethane	2.49	50	418252	9.43	ug/l	100
5) Vinyl chloride	2.65	62	367961	9.71	ug/l	99
6) Bromomethane	3.18	94	263191	9.34	ug/l	99
7) Chloroethane	3.26	64	307627	10.46	ug/l	98
8) Dichlorofluoromethane	3.33	67	681123	8.96	ug/l	100
9) Trichlorofluoromethane	3.63	101	466609	10.82	ug/l	99
11) Acrolein	4.13	56	101979	48.78	ug/l #	65
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	220454	10.67	ug/l	99
13) Acetone	4.22	43	249989	48.85	ug/l	95
14) 1,1-Dichloroethene	4.38	61	568562	9.52	ug/l	97
15) tert-Butyl alcohol	4.51	59	116383	61.17	ug/l #	64
17) Iodomethane	4.80	142	507131	8.06	ug/l	99
19) Methylene chloride	5.03	49	516733	8.32	ug/l	96
20) Carbon disulfide	5.05	76	1630795	10.53	ug/l	99
21) Acrylonitrile	5.20	53	346819	51.20	ug/l	100
22) tert-Butyl methyl ether (M	5.25	73	554967	9.41	ug/l	100
23) trans-1,2-Dichloroethene	5.43	61	615697	9.20	ug/l	96
24) Isopropyl ether (DIPE)	5.88	45	1504169	9.16	ug/l	98
25) Vinyl acetate	6.02	43	650722	10.80	ug/l	98
26) 1,1-Dichloroethane	6.02	63	764688	9.33	ug/l	98
28) tert-Butyl ethyl ether (ET	6.47	59	868128	8.88	ug/l	98
29) 2-Butanone	6.63	43	467814	48.82	ug/l	96
30) 2,2-Dichloropropane	6.84	77	512761	10.38	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	451479	9.40	ug/l	98
32) Chloroform	7.12	83	644871	9.12	ug/l	99
33) Bromochloromethane	7.37	49	323820	9.12	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CV001L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 7:28 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	493234	9.62 ug/l	98
39) tert-Amyl methyl ether (TA	8.14	87	131050	9.05 ug/l	96
42) 1,1-Dichloropropene	7.96	110	205254	9.65 ug/l	100
43) Carbon tetrachloride	8.11	119	408782	9.76 ug/l	96
44) 1,2-Dichloroethane	8.33	62	351123	9.46 ug/l	100
45) Benzene	8.36	78	1674445	9.71 ug/l	99
46) Trichloroethene	9.32	130	435139	9.52 ug/l	97
48) 1,2-Dichloropropane	9.60	63	433395	9.11 ug/l	97
49) 1,4-Dioxane	10.03	88	34788	231.37 ug/l	83
50) Bromodichloromethane	9.97	83	461042	9.05 ug/l	98
51) Dibromomethane	10.06	93	157749	8.66 ug/l	99
52) 2-Chloroethyl vinyl ether	10.46	63	50629	4.29 ug/l	96
53) 4-Methyl-2-pentanone	10.54	43	1096630	44.96 ug/l	95
54) cis-1,3-Dichloropropene	10.88	75	600223	9.33 ug/l	99
56) Toluene	11.42	91	1695432	9.62 ug/l	100
57) Ethyl methacrylate	11.72	69	309588	9.02 ug/l	100
58) trans-1,3-Dichloropropene	11.74	75	434472	9.58 ug/l	96
59) 2-Hexanone	12.03	43	691388	45.53 ug/l	98
60) 1,1,2-Trichloroethane	12.00	97	237339	9.75 ug/l	97
61) 1,3-Dichloropropane	12.46	76	454559	9.51 ug/l	99
62) Tetrachloroethene	12.58	164	338007	9.82 ug/l	97
63) Dibromochloromethane	12.93	129	263128	8.78 ug/l	97
64) 1,2-Dibromoethane	13.30	107	208475	8.72 ug/l	98
65) 1-Chlorohexane	13.59	91	737468	10.22 ug/l	98
66) Chlorobenzene	14.07	112	1019475	9.67 ug/l	98
67) 1,1,1,2-Tetrachloroethane	14.15	131	325763	9.59 ug/l	97
68) Ethylbenzene	14.16	91	1911168	9.52 ug/l	100
69) m-Xylene & p-Xylene	14.30	91	2808489	19.03 ug/l	100
70) o-Xylene	15.12	91	1379329	9.57 ug/l	100
71) Styrene	15.20	104	1039905	9.58 ug/l	99
73) Isopropylbenzene	15.80	105	1696915	9.79 ug/l	99
74) Bromoform	15.83	173	131860	9.03 ug/l	99
75) 1,1,2,2-Tetrachloroethane	16.13	83	255932	9.06 ug/l	99
77) 1,2,3-Trichloropropane	16.43	110	62669	8.81 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.56	53	68398	9.37 ug/l	99
79) n-Propylbenzene	16.59	91	2266477	9.85 ug/l	99
80) Bromobenzene	16.68	156	343611	9.48 ug/l	98
81) 1,3,5-Trimethylbenzene	16.90	105	1319563	9.67 ug/l	96
82) 2-Chlorotoluene	16.93	91	1327029	9.47 ug/l	97
83) 4-Chlorotoluene	17.02	91	1176473	9.75 ug/l	94
84) tert-Butylbenzene	17.59	134	313651	10.12 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 7:28 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

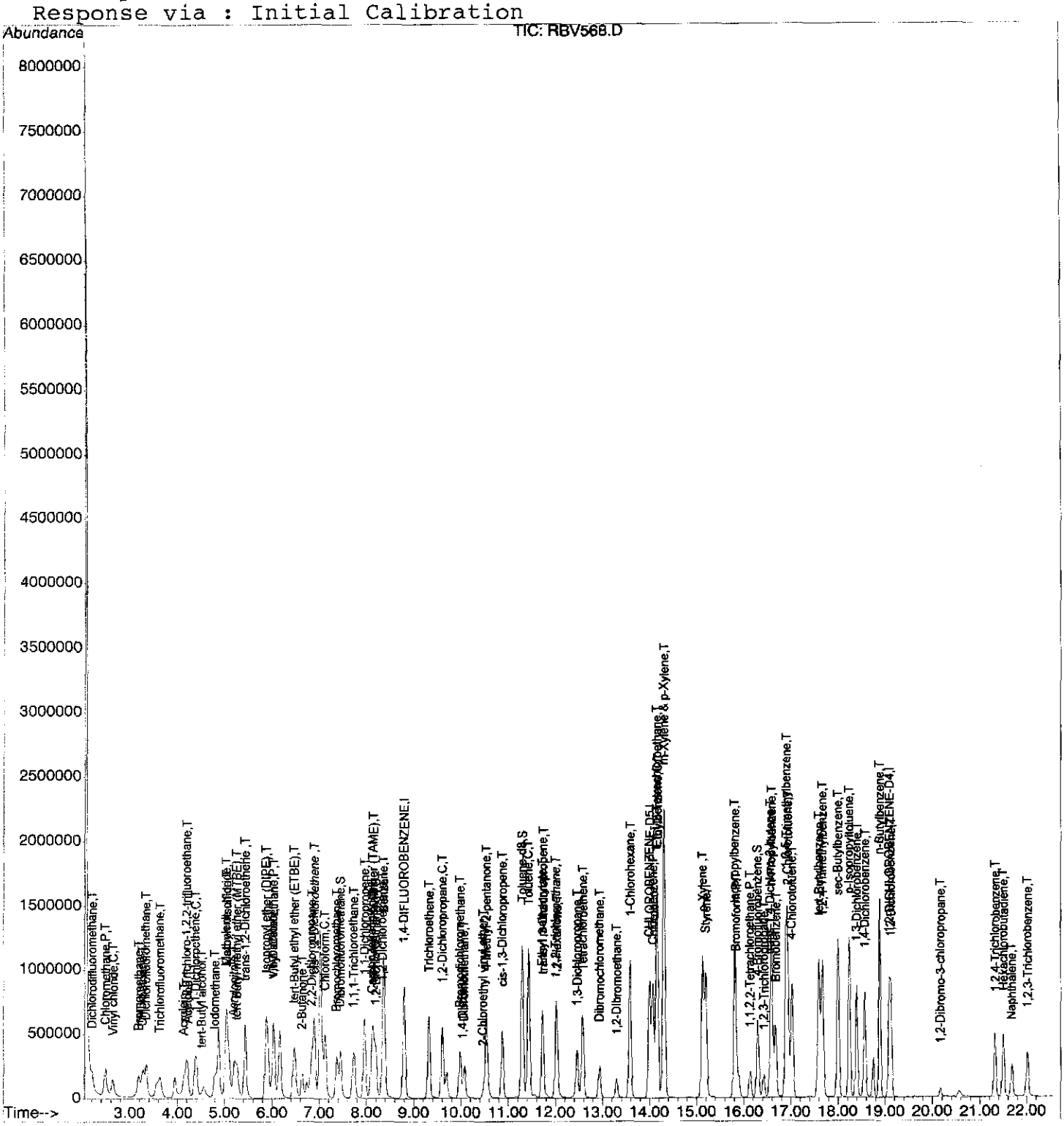
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1287627	9.55 ug/l	96
86) sec-Butylbenzene	17.99	105	1873247	9.86 ug/l	99
87) p-Isopropyltoluene	18.23	119	1434955	9.89 ug/l	99
88) 1,3-Dichlorobenzene	18.39	146	687873	9.40 ug/l	98
89) 1,4-Dichlorobenzene	18.57	146	662280	9.42 ug/l	97
90) n-Butylbenzene	18.88	91	1480877	9.74 ug/l	99
91) 1,2-Dichlorobenzene	19.12	146	565697	9.51 ug/l	97
92) 1,2-Dibromo-3-chloropropan	20.17	157	32268	9.16 ug/l	99
93) 1,2,4-Trichlorobenzene	21.32	180	323018	8.93 ug/l	99
94) Hexachlorobutadiene	21.50	225	203647	8.82 ug/l	96
95) Naphthalene	21.68	128	408376	9.75 ug/l	99
96) 1,2,3-Trichlorobenzene	22.02	180	242514	8.38 ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D Vial: 3
Acq On : 22 Feb 2011 7:05 am Operator: MW
Sample : CVO01L1167 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P
Quant Time: Feb 22 7:28 2011 Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	10.000	9.959	0.4	82	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	81	0.00
4	P,T	Chloromethane	10.000	9.427	5.7	79	0.00
5	C,T	Vinyl chloride	10.000	9.714	2.9	92	0.00
6	T	Bromomethane	10.000	9.343	6.6	77	0.00
7	T	Chloroethane	10.000	10.463	-4.6	88	0.00
8	T	Dichlorofluoromethane	10.000	8.963	10.4	78	0.00
9	T	Trichlorofluoromethane	10.000	10.818	-8.2	92	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	121	-0.02
11	T	Acrolein	50.000	48.785	2.4	85	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	10.670	-6.7	91	0.00
13	T	Acetone	50.000	48.849	2.3	87	0.00
14	C,T	1,1-Dichloroethene	10.000	9.522	4.8	83	0.00
15	T	tert-Butyl alcohol	50.000	61.165	-22.3#	114	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.061	19.4	69	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	87	0.00
19	T	Methylene chloride	10.000	8.317	16.8	77	0.00
20	T	Carbon disulfide	10.000	10.534	-5.3	84	-0.02
21	T	Acrylonitrile	50.000	51.202	-2.4	91	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.408	5.9	82	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.203	8.0	81	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.165	8.4	79	0.00
25	T	Vinyl acetate	10.000	10.798	-8.0	92	0.00
26	P,T	1,1-Dichloroethane	10.000	9.331	6.7	81	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	73	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	8.883	11.2	77	0.00
29	T	2-Butanone	50.000	48.820	2.4	88	0.00
30	T	2,2-Dichloropropane	10.000	10.385	-3.8	93	0.00
31	T	cis-1,2-Dichloroethene	10.000	9.395	6.1	81	-0.02
32	C,T	Chloroform	10.000	9.118	8.8	80	-0.02
33	T	Bromochloromethane	10.000	9.124	8.8	78	0.00
34	S	Dibromofluoromethane	10.000	9.466	5.3	80	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.618	3.8	85	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	80	0.00
38	T	1-Butanol	-1.000	0.000	0.0	73	0.00
39	T	tert-Amyl methyl ether (TAM	10.000	9.045	9.6	78	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.925	0.7	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~89~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.648	3.5	86	0.00
43	T	Carbon tetrachloride	10.000	9.757	2.4	86	-0.02
44	T	1,2-Dichloroethane	10.000	9.456	5.4	81	-0.02
45	T	Benzene	10.000	9.710	2.9	85	-0.02
46	T	Trichloroethene	10.000	9.516	4.8	81	0.00
47	T	Methylcyclohexane	-1.000	0.000	0.0	97	0.00
48	C,T	1,2-Dichloropropane	10.000	9.108	8.9	79	0.00
49	T	1,4-Dioxane	200.000	231.373	-15.7	104	-0.02
50	T	Bromodichloromethane	10.000	9.053	9.5	77	-0.02
51	T	Dibromomethane	10.000	8.662	13.4	74	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	4.294	57.1#	38	-0.02
53	T	4-Methyl-2-pentanone	50.000	44.958	10.1	80	0.00
54	T	cis-1,3-Dichloropropene	10.000	9.327	6.7	80	0.00
55	S	Toluene-d8	10.000	10.502	-5.0	89	-0.02
56	C,T	Toluene	10.000	9.623	3.8	84	-0.02
57	T	Ethyl methacrylate	10.000	9.017	9.8	76	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.584	4.2	82	0.00
59	T	2-Hexanone	50.000	45.532	8.9	81	0.00
60	T	1,1,2-Trichloroethane	10.000	9.753	2.5	83	-0.02
61	T	1,3-Dichloropropane	10.000	9.512	4.9	82	0.00
62	T	Tetrachloroethene	10.000	9.821	1.8	86	-0.02
63	T	Dibromochloromethane	10.000	8.779	12.2	74	-0.02
64	T	1,2-Dibromoethane	10.000	8.722	12.8	74	-0.02
65	T	1-Chlorohexane	10.000	10.224	-2.2	88	-0.02
66	P	Chlorobenzene	10.000	9.668	3.3	83	0.00
67	T	1,1,1,2-Tetrachloroethane	10.000	9.594	4.1	82	-0.02
68	C,T	Ethylbenzene	10.000	9.516	4.8	84	-0.02
69	T	m-Xylene & p-Xylene	20.000	19.033	4.8	83	-0.02
70	T	o-Xylene	10.000	9.574	4.3	81	-0.02
71	T	Styrene	10.000	9.578	4.2	79	-0.02
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	87	0.00
73	T	Isopropylbenzene	10.000	9.789	2.1	83	-0.02
74	P,T	Bromoform	10.000	9.030	9.7	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.055	9.5	78	-0.02
76	S	4-Bromofluorobenzene	10.000	10.263	-2.6	85	-0.02
77	T	1,2,3-Trichloropropane	10.000	8.811	11.9	81	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	9.375	6.3	79	-0.02
79	T	n-Propylbenzene	10.000	9.847	1.5	84	-0.02
80	T	Bromobenzene	10.000	9.479	5.2	81	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	9.673	3.3	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.473	5.3	83	-0.02
83	T	4-Chlorotoluene	10.000	9.754	2.5	80	-0.04
84	T	tert-Butylbenzene	10.000	10.122	-1.2	86	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	9.553	4.5	80	-0.02
86	T	sec-Butylbenzene	10.000	9.858	1.4	84	-0.02
87	T	p-Isopropyltoluene	10.000	9.894	1.1	83	-0.02
88	T	1,3-Dichlorobenzene	10.000	9.398	6.0	80	-0.02
89	T	1,4-Dichlorobenzene	10.000	9.418	5.8	79	0.00
90	T	n-Butylbenzene	10.000	9.738	2.6	82	-0.02
91	T	1,2-Dichlorobenzene	10.000	9.515	4.8	80	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.157	8.4	77	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	8.930	10.7	76	0.00
94	T	Hexachlorobutadiene	10.000	8.818	11.8	74	-0.02
95	T	Naphthalene	10.000	9.753	2.5	86	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	8.384	16.2	73	-0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	0.175	0.174	0.6	82	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	81	0.00
4	P,T	Chloromethane	0.342	0.322	5.8	79	0.00
5	C,T	Vinyl chloride	0.292	0.284	2.7	92	0.00
6	T	Bromomethane	0.217	0.203	6.5	77	0.00
7	T	Chloroethane	0.227	0.237	-4.4	88	0.00
8	T	Dichlorofluoromethane	0.586	0.525	10.4	78	0.00
9	T	Trichlorofluoromethane	0.332	0.360	-8.4	92	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	121	-0.02
11	T	Acrolein	0.016	0.016	0.0	85	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.170	-6.9	91	0.00
13	T	Acetone	0.039	0.039	0.0	87	0.00
14	C,T	1,1-Dichloroethene	0.460	0.438	4.8	83	0.00
15	T	tert-Butyl alcohol	0.015	0.018	-20.0	114	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.391	19.4	69	0.00
18	T	Methyl acetate	0.000	0.000	0.0	87	0.00
19	T	Methylene chloride	0.479	0.398	16.9	77	0.00
20	T	Carbon disulfide	1.122	1.257	-12.0	84	-0.02
21	T	Acrylonitrile	0.052	0.053	-1.9	91	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.428	5.9	82	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.475	7.9	81	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.159	8.4	79	0.00
25	T	Vinyl acetate	0.465	0.502	-8.0	92	0.00
26	P,T	1,1-Dichloroethane	0.632	0.589	6.8	81	-0.02
27	T	2-Butanol	0.000	0.000	0.0	73	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.669	11.2	77	0.00
29	T	2-Butanone	0.074	0.072	2.7	88	0.00
30	T	2,2-Dichloropropane	0.381	0.395	-3.7	93	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.348	5.9	81	-0.02
32	C,T	Chloroform	0.545	0.497	8.8	80	-0.02
33	T	Bromochloromethane	0.274	0.250	8.8	78	0.00
34	S	Dibromofluoromethane	0.300	0.284	5.3	80	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.380	3.8	85	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	80	0.00
38	T	1-Butanol	0.000	0.000	0.0	73	0.00
39	T	tert-Amyl methyl ether (TAM	0.112	0.101	9.8	78	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.233	0.4	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~89~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D
Acq On : 22 Feb 2011 7:05 am
Sample : CVO01L1167
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.185	3.6	86	0.00
43	T	Carbon tetrachloride	0.378	0.369	2.4	86	-0.02
44	T	1,2-Dichloroethane	0.335	0.317	5.4	81	-0.02
45	T	Benzene	1.557	1.512	2.9	85	-0.02
46	T	Trichloroethene	0.413	0.393	4.8	81	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	97	0.00
48	C,T	1,2-Dichloropropane	0.430	0.391	9.1	79	0.00
49	T	1,4-Dioxane	0.001	0.002	-100.0#	104	-0.02
50	T	Bromodichloromethane	0.460	0.416	9.6	77	-0.02
51	T	Dibromomethane	0.164	0.142	13.4	74	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.046	56.6#	38#	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.198	10.0	80	0.00
54	T	cis-1,3-Dichloropropene	0.581	0.542	6.7	80	0.00
55	S	Toluene-d8	1.303	1.368	-5.0	89	-0.02
56	C,T	Toluene	1.591	1.531	3.8	84	-0.02
57	T	Ethyl methacrylate	0.310	0.279	10.0	76	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.392	4.2	82	0.00
59	T	2-Hexanone	0.137	0.125	8.8	81	0.00
60	T	1,1,2-Trichloroethane	0.220	0.214	2.7	83	-0.02
61	T	1,3-Dichloropropane	0.431	0.410	4.9	82	0.00
62	T	Tetrachloroethene	0.311	0.305	1.9	86	-0.02
63	T	Dibromochloromethane	0.271	0.238	12.2	74	-0.02
64	T	1,2-Dibromoethane	0.216	0.188	13.0	74	-0.02
65	T	1-Chlorohexane	0.651	0.666	-2.3	88	-0.02
66	P	Chlorobenzene	0.952	0.920	3.4	83	0.00
67	T	1,1,1,2-Tetrachloroethane	0.307	0.294	4.2	82	-0.02
68	C,T	Ethylbenzene	1.813	1.725	4.9	84	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.268	4.8	83	-0.02
70	T	o-Xylene	1.301	1.245	4.3	81	-0.02
71	T	Styrene	0.980	0.939	4.2	79	-0.02
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.392	4.299	2.1	83	-0.02
74	P,T	Bromoform	0.370	0.334	9.7	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.648	9.5	78	-0.02
76	S	4-Bromofluorobenzene	1.134	1.164	-2.6	85	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.159	11.7	81	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.173	6.5	79	-0.02
79	T	n-Propylbenzene	5.832	5.742	1.5	84	-0.02
80	T	Bromobenzene	0.918	0.871	5.1	81	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.343	3.3	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV568.D Vial: 3
Acq On : 22 Feb 2011 7:05 am Operator: MW
Sample : CVO01L1167 Inst : TO01
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN Multiplr: 1.00
MS Integration Params: 524C.P

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.362	5.3	83	-0.02
83	T	4-Chlorotoluene	3.056	2.981	2.5	80	-0.04
84	T	tert-Butylbenzene	0.785	0.795	-1.3	86	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.262	4.5	80	-0.02
86	T	sec-Butylbenzene	4.814	4.746	1.4	84	-0.02
87	T	p-Isopropyltoluene	3.675	3.636	1.1	83	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.743	6.0	80	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.678	5.8	79	0.00
90	T	n-Butylbenzene	3.853	3.752	2.6	82	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.433	4.8	80	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.082	7.9	77	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.818	10.7	76	0.00
94	T	Hexachlorobutadiene	0.585	0.516	11.8	74	-0.02
95	T	Naphthalene	1.061	1.035	2.5	86	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.614	16.2	73	-0.02

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBV591
Instrument ID: T001
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/22/11
BFB Injection Time : 19:46
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	20.93
75	30.0 - 60.0% of mass 95	46.33
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.72
173	Less than 2.0% of mass 174	0.20(0.3)1
174	Greater than 50% of mass 95	72.59
175	5.0 - 9.0% of mass 174	5.15(7.1)1
176	95.0 - 101.0% of mass 174	71.21(98.1)1
177	5.0 - 9.0% of mass 176	4.86(6.8)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV001L1168	RBV592	02/22/11	20:17
2	MBLK2W	V001B29B	RBV596	02/22/11	22:25
3	LCS2W	V001B29L	RBV593	02/22/11	20:49
4	LCD2W	V001B29C	RBV594	02/22/11	21:21
5	SSI-HP-009	B186-11	RBV597	02/22/11	22:57
6	SSI-HP-004A	B186-13	RBV598	02/22/11	23:30

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RLV333
Instrument ID: T001
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 12/11/10
Time Analyzed: 12:40
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1443192	8.82	1241991	14.02	452642	19.10
	UPPER LIMIT	2886384	9.32	2483982	14.52	905284	19.60
	LOWER LIMIT	721596	8.32	620996	13.52	226321	18.60
	SAMPLE ID						
1	VSTD010	1295937	8.79	1142112	14.00	395503	19.09
2	MBLK2W	1395824	8.79	1248044	13.99	434125	19.08
3	LCS2W	1372143	8.79	1206572	14.00	419016	19.09
4	LCD2W	1352506	8.79	1199125	14.00	398217	19.09
5	SSI-HP-009	1396797	8.79	1259867	13.99	431798	19.08
6	SSI-HP-004A	1390418	8.79	1213806	14.00	426815	19.09

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

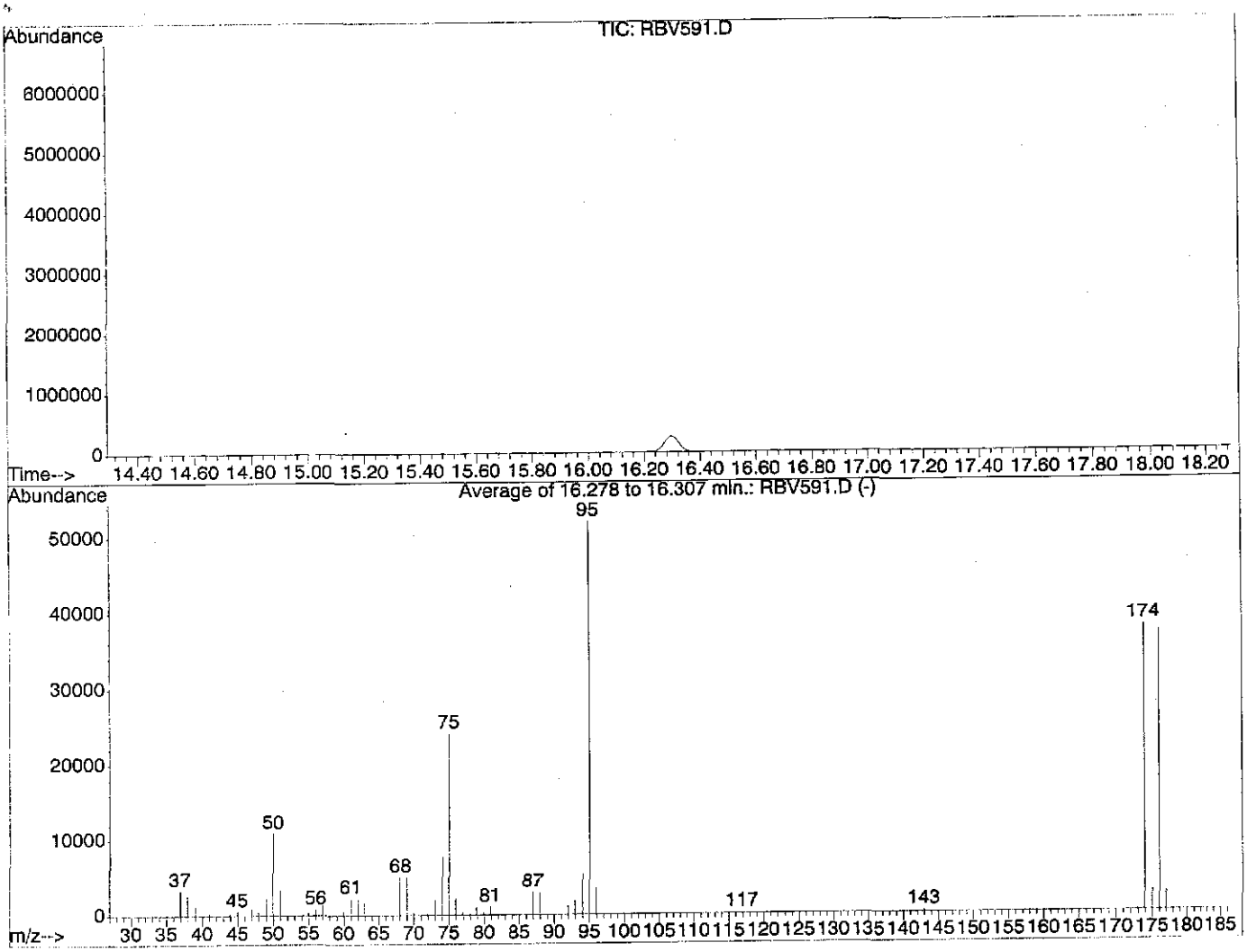
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

BFB

Data File : D:\HPCHEM\1\DATA\11B22\RBV591.D
Acq On : 22 Feb 2011 7:46 pm
Sample : BFB01B29
Misc : T/CHCK
MS Integration Params: 524C.P
Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls

Vial: 2
Operator: MW
Inst : TO01
Multiplr: 1.00



AutoFind: Scans 963, 964, 965; Background Corrected with Scan 957

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	10887	PASS
75	95	30	60	46.3	24096	PASS
95	95	100	100	100.0	52005	PASS
96	95	5	9	6.7	3494	PASS
173	174	0.00	2	0.3	103	PASS
174	95	50	100	72.6	37752	PASS
175	174	5	9	7.1	2680	PASS
176	174	95	101	98.1	37032	PASS
177	176	5	9	6.8	2530	PASS

RBV591.D VO01L11.M Wed Feb 23 07:23:34 2011

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 20:40 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	8.79	114	1295937	10.00	ug/l	-0.02
41) CHLOROBENZENE-D5	14.00	117	1142112	10.00	ug/l	-0.02
72) 1,2-DICHLOROBENZENE-D4	19.09	152	395503	10.00	ug/l	0.00
System Monitoring Compounds						
34) Dibromofluoromethane	7.45	111	371802	9.57	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	95.70%	
40) 1,2-Dichloroethane-d4	8.20	65	301871	9.94	ug/l	0.00
Spiked Amount 10.000			Recovery	=	99.40%	
55) Toluene-d8	11.29	98	1553362	10.44	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	104.40%	
76) 4-Bromofluorobenzene	16.29	95	473459	10.56	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	105.60%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.21	85	198131	8.74	ug/l	99
4) Chloromethane	2.49	50	458129	10.34	ug/l	99
5) Vinyl chloride	2.65	62	386754	10.22	ug/l	99
6) Bromomethane	3.18	94	286919	10.20	ug/l	100
7) Chloroethane	3.26	64	328589	11.19	ug/l	97
8) Dichlorofluoromethane	3.35	67	669012	8.81	ug/l	100
9) Trichlorofluoromethane	3.63	101	431788	10.02	ug/l	100
11) Acrolein	4.13	56	94096	45.06	ug/l #	66
12) 1,1,2-Trichloro-1,2,2-trif	4.19	151	192634	9.33	ug/l	99
13) Acetone	4.22	43	247398	48.39	ug/l	98
14) 1,1-Dichloroethene	4.40	61	562135	9.42	ug/l	98
15) tert-Butyl alcohol	4.53	59	102497	53.92	ug/l #	79
17) Iodomethane	4.80	142	523155	8.32	ug/l	97
19) Methylene chloride	5.03	49	535802	8.63	ug/l	97
20) Carbon disulfide	5.06	76	1375864	8.92	ug/l	100
21) Acrylonitrile	5.20	53	362064	53.51	ug/l	99
22) tert-Butyl methyl ether (M	5.26	73	589118	10.00	ug/l	100
23) trans-1,2-Dichloroethene	5.43	61	628685	9.41	ug/l	98
24) Isopropyl ether (DIPE)	5.88	45	1614705	9.85	ug/l	98
25) Vinyl acetate	6.02	43	693117	11.51	ug/l	98
26) 1,1-Dichloroethane	6.02	63	787702	9.62	ug/l	99
28) tert-Butyl ethyl ether (ET	6.47	59	945430	9.68	ug/l	98
29) 2-Butanone	6.63	43	478229	49.96	ug/l	96
30) 2,2-Dichloropropane	6.84	77	485180	9.84	ug/l	99
31) cis-1,2-Dichloroethene	6.90	96	464518	9.68	ug/l	99
32) Chloroform	7.12	83	659784	9.34	ug/l	99
33) Bromochloromethane	7.37	49	338386	9.54	ug/l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 20:40 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
36) 1,1,1-Trichloroethane	7.73	97	483967	9.45 ug/l	98
39) tert-Amyl methyl ether (TA	8.14	87	142651	9.86 ug/l	96
42) 1,1-Dichloropropene	7.96	110	201304	9.18 ug/l	100
43) Carbon tetrachloride	8.11	119	388883	9.00 ug/l	96
44) 1,2-Dichloroethane	8.33	62	358261	9.36 ug/l	99
45) Benzene	8.36	78	1734168	9.75 ug/l	99
46) Trichloroethene	9.32	130	445138	9.44 ug/l	98
48) 1,2-Dichloropropane	9.61	63	455892	9.29 ug/l	98
49) 1,4-Dioxane	10.03	88	29520	190.42 ug/l	98
50) Bromodichloromethane	9.98	83	476424	9.07 ug/l	98
51) Dibromomethane	10.06	93	160077	8.53 ug/l	99
52) 2-Chloroethyl vinyl ether	10.46	63	61362	5.05 ug/l	96
53) 4-Methyl-2-pentanone	10.52	43	1146192	45.57 ug/l	97
54) cis-1,3-Dichloropropene	10.88	75	628838	9.48 ug/l	99
56) Toluene	11.43	91	1777530	9.79 ug/l	100
57) Ethyl methacrylate	11.72	69	313842	8.87 ug/l	100
58) trans-1,3-Dichloropropene	11.74	75	444323	9.51 ug/l	96
59) 2-Hexanone	12.03	43	703331	44.92 ug/l	98
60) 1,1,2-Trichloroethane	12.00	97	240989	9.60 ug/l	98
61) 1,3-Dichloropropane	12.46	76	454878	9.23 ug/l	100
62) Tetrachloroethene	12.58	164	345326	9.73 ug/l	96
63) Dibromochloromethane	12.93	129	274349	8.88 ug/l	99
64) 1,2-Dibromoethane	13.30	107	212240	8.61 ug/l	99
65) 1-Chlorohexane	13.59	91	713574	9.59 ug/l	99
66) Chlorobenzene	14.06	112	1055457	9.71 ug/l	99
67) 1,1,1,2-Tetrachloroethane	14.15	131	339045	9.68 ug/l	98
68) Ethylbenzene	14.16	91	1976714	9.55 ug/l	99
69) m-Xylene & p-Xylene	14.30	91	2908684	19.12 ug/l	100
70) o-Xylene	15.12	91	1448186	9.75 ug/l	100
71) Styrene	15.20	104	1102269	9.85 ug/l	99
73) Isopropylbenzene	15.81	105	1779431	10.24 ug/l	99
74) Bromoform	15.83	173	131770	9.00 ug/l	98
75) 1,1,2,2-Tetrachloroethane	16.13	83	259277	9.15 ug/l	100
77) 1,2,3-Trichloropropane	16.43	110	64664	9.07 ug/l	97
78) trans-1,4-Dichloro-2-buten	16.56	53	68299	9.34 ug/l	100
79) n-Propylbenzene	16.59	91	2306924	10.00 ug/l	99
80) Bromobenzene	16.68	156	356101	9.80 ug/l	98
81) 1,3,5-Trimethylbenzene	16.90	105	1382037	10.11 ug/l	98
82) 2-Chlorotoluene	16.93	91	1386994	9.88 ug/l	97
83) 4-Chlorotoluene	17.02	91	1213675	10.04 ug/l	94
84) tert-Butylbenzene	17.60	134	329223	10.60 ug/l	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 20:40 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Quant Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration
DataAcq Meth : VO01L11

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
85) 1,2,4-Trimethylbenzene	17.67	105	1359259	10.06 ug/l	96
86) sec-Butylbenzene	17.99	105	1931181	10.14 ug/l	99
87) p-Isopropyltoluene	18.23	119	1445793	9.95 ug/l	98
88) 1,3-Dichlorobenzene	18.39	146	728258	9.93 ug/l	99
89) 1,4-Dichlorobenzene	18.57	146	688810	9.77 ug/l	98
90) n-Butylbenzene	18.88	91	1491734	9.79 ug/l	99
91) 1,2-Dichlorobenzene	19.12	146	588945	9.89 ug/l	98
92) 1,2-Dibromo-3-chloropropan	20.17	157	32198	9.12 ug/l	98
93) 1,2,4-Trichlorobenzene	21.31	180	340644	9.40 ug/l	98
94) Hexachlorobutadiene	21.50	225	209078	9.03 ug/l	98
95) Naphthalene	21.68	128	417192	9.94 ug/l	100
96) 1,2,3-Trichlorobenzene	22.02	180	256540	8.85 ug/l	98

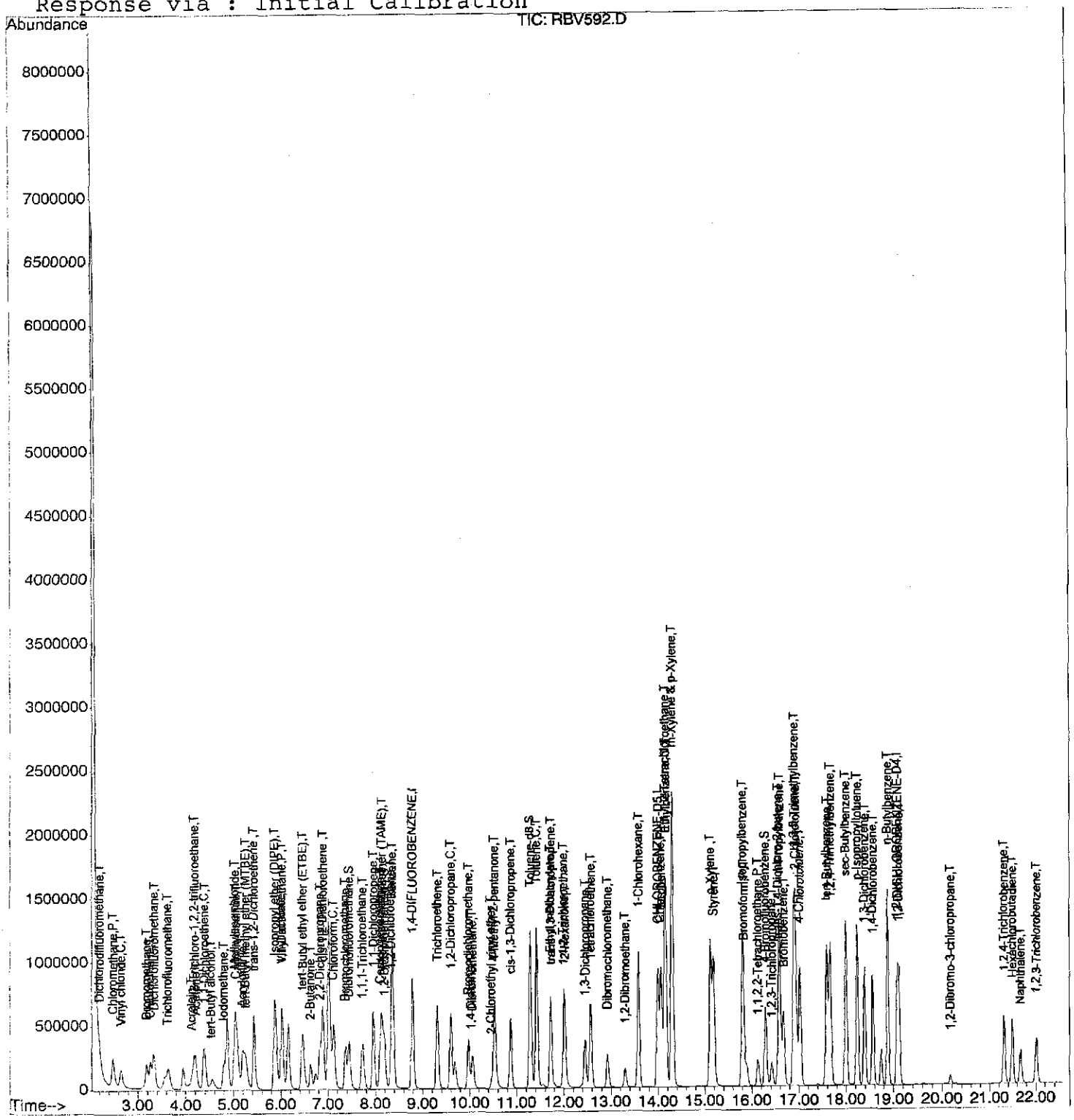
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P
Quant Time: Feb 22 20:40 2011

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00
Quant Results File: VO01L11.RES

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	10.000	8.739	12.6	72	0.00
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	82	0.00
4	P,T	Chloromethane	10.000	10.337	-3.4	87	0.00
5	C,T	Vinyl chloride	10.000	10.220	-2.2	97	0.00
6	T	Bromomethane	10.000	10.196	-2.0	84	0.00
7	T	Chloroethane	10.000	11.188	-11.9	94	0.00
8	T	Dichlorofluoromethane	10.000	8.813	11.9	77	0.00
9	T	Trichlorofluoromethane	10.000	10.021	-0.2	85	0.00
10	T	sec-Propyl alcohol	-1.000	0.000	0.0	120	0.00
11	T	Acrolein	50.000	45.060	9.9	78	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.333	6.7	80	0.00
13	T	Acetone	50.000	48.393	3.2	86	0.00
14	C,T	1,1-Dichloroethene	10.000	9.425	5.7	83	0.00
15	T	tert-Butyl alcohol	50.000	53.923	-7.8	100	0.00
16	T	Acetonitrile	-1.000	0.000	0.0	0	0.00
17	T	Iodomethane	10.000	8.324	16.8	71	0.00
18	T	Methyl acetate	-1.000	0.000	0.0	90	0.00
19	T	Methylene chloride	10.000	8.633	13.7	80	0.00
20	T	Carbon disulfide	10.000	8.920	10.8	71	0.00
21	T	Acrylonitrile	50.000	53.507	-7.0	95	0.00
22	T	tert-Butyl methyl ether (MT	10.000	9.998	0.0	87	0.00
23	T	trans-1,2-Dichloroethene	10.000	9.406	5.9	83	0.00
24	T	Isopropyl ether (DIPE)	10.000	9.848	1.5	85	0.00
25	T	Vinyl acetate	10.000	11.513	-15.1	99	0.00
26	P,T	1,1-Dichloroethane	10.000	9.621	3.8	84	-0.02
27	T	2-Butanol	-1.000	0.000	0.0	82	0.00
28	T	tert-Butyl ethyl ether (ETB	10.000	9.684	3.2	84	0.00
29	T	2-Butanone	50.000	49.958	0.1	90	0.00
~~30~~	~~T~~	~~2,2-Dichloropropane~~	~~10.000~~	~~9.836~~	~~1.6~~	~~88~~	~~0.00~~
31	T	cis-1,2-Dichloroethene	10.000	9.677	3.2	83	-0.02
32	C,T	Chloroform	10.000	9.339	6.6	82	-0.02
33	T	Bromochloromethane	10.000	9.544	4.6	82	0.00
34	S	Dibromofluoromethane	10.000	9.575	4.3	81	-0.02
35	T	Tetrahydrofuran	-1.000	0.000	0.0	0	0.00
36	T	1,1,1-Trichloroethane	10.000	9.447	5.5	83	-0.02
37	T	Cyclohexane	-1.000	0.000	0.0	88	-0.02
38	T	1-Butanol	-1.000	0.000	0.0	81	-0.02
39	T	tert-Amyl methyl ether (TAM	10.000	9.856	1.4	84	-0.02
40	S	1,2-Dichloroethane-d4	10.000	9.940	0.6	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~10.000~~	~~10.000~~	~~0.0~~	~~92~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	10.000	9.177		8.2	84	0.00
43	T	Carbon tetrachloride	10.000	9.002		10.0	81	-0.02
44	T	1,2-Dichloroethane	10.000	9.358		6.4	83	-0.02
45	T	Benzene	10.000	9.753		2.5	88	-0.02
46	T	Trichloroethene	10.000	9.442		5.6	83	0.00
47	T	Methylcyclohexane	-1.000	0.000		0.0	99	0.00
48	C,T	1,2-Dichloropropane	10.000	9.292		7.1	83	0.00
49	T	1,4-Dioxane	200.000	190.421		4.8	88	-0.02
50	T	Bromodichloromethane	10.000	9.073		9.3	80	-0.02
51	T	Dibromomethane	10.000	8.525		14.7	75	-0.02
52	T	2-Chloroethyl vinyl ether	10.000	5.047	NK	49.5#	46	-0.02
53	T	4-Methyl-2-pentanone	50.000	45.574		8.9	83	-0.02
54	T	cis-1,3-Dichloropropene	10.000	9.477		5.2	84	0.00
55	S	Toluene-d8	10.000	10.442		-4.4	92	-0.02
56	C,T	Toluene	10.000	9.785		2.1	88	-0.02
57	T	Ethyl methacrylate	10.000	8.866		11.3	77	0.00
58	T	trans-1,3-Dichloropropene	10.000	9.506		4.9	84	0.00
59	T	2-Hexanone	50.000	44.923		10.2	82	0.00
60	T	1,1,2-Trichloroethane	10.000	9.604		4.0	85	-0.02
61	T	1,3-Dichloropropane	10.000	9.232		7.7	82	0.00
62	T	Tetrachloroethene	10.000	9.732		2.7	88	-0.02
63	T	Dibromochloromethane	10.000	8.877		11.2	77	-0.02
64	T	1,2-Dibromoethane	10.000	8.612		13.9	76	-0.02
65	T	1-Chlorohexane	10.000	9.595		4.0	85	-0.02
66	P	Chlorobenzene	10.000	9.708		2.9	86	-0.02
67	T	1,1,1,2-Tetrachloroethane	10.000	9.684		3.2	85	-0.02
68	C,T	Ethylbenzene	10.000	9.545		4.6	87	-0.02
69	T	m-Xylene & p-Xylene	20.000	19.118		4.4	86	-0.02
70	T	o-Xylene	10.000	9.749		2.5	85	-0.02
71	T	Styrene	10.000	9.847		1.5	84	-0.02
72	I	1,2-DICHLOROBENZENE-D4	10.000	10.000		0.0	87	0.00
73	T	Isopropylbenzene	10.000	10.244		-2.4	87	-0.02
74	P,T	Bromoform	10.000	9.005		9.9	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	10.000	9.155		8.5	79	-0.02
76	S	4-Bromofluorobenzene	10.000	10.556		-5.6	87	-0.02
77	T	1,2,3-Trichloropropane	10.000	9.073		9.3	83	-0.02
78	T	trans-1,4-Dichloro-2-butene	10.000	9.342		6.6	79	-0.02
79	T	n-Propylbenzene	10.000	10.002		-0.0	85	-0.02
80	T	Bromobenzene	10.000	9.804		2.0	83	-0.02
81	T	1,3,5-Trimethylbenzene	10.000	10.110		-1.1	86	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	10.000	9.880	1.2	87	-0.02
83	T	4-Chlorotoluene	10.000	10.042	-0.4	83	-0.04
84	T	tert-Butylbenzene	10.000	10.603	-6.0	91	-0.02
85	T	1,2,4-Trimethylbenzene	10.000	10.064	-0.6	84	-0.02
86	T	sec-Butylbenzene	10.000	10.142	-1.4	87	-0.02
87	T	p-Isopropyltoluene	10.000	9.948	0.5	84	-0.02
88	T	1,3-Dichlorobenzene	10.000	9.929	0.7	84	-0.02
89	T	1,4-Dichlorobenzene	10.000	9.775	2.2	83	0.00
90	T	n-Butylbenzene	10.000	9.789	2.1	83	-0.02
91	T	1,2-Dichlorobenzene	10.000	9.885	1.2	83	-0.02
92	T	1,2-Dibromo-3-chloropropane	10.000	9.119	8.8	77	-0.02
93	T	1,2,4-Trichlorobenzene	10.000	9.398	6.0	81	-0.02
94	T	Hexachlorobutadiene	10.000	9.035	9.6	76	-0.02
95	T	Naphthalene	10.000	9.943	0.6	88	-0.02
96	T	1,2,3-Trichlorobenzene	10.000	8.851	11.5	77	-0.02

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	90	-0.02
2	T	Dichlorodifluoromethane	0.175	0.153	12.6	72	0.00
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	82	0.00
4	P,T	Chloromethane	0.342	0.354	-3.5	87	0.00
5	C,T	Vinyl chloride	0.292	0.298	-2.1	97	0.00
6	T	Bromomethane	0.217	0.221	-1.8	84	0.00
7	T	Chloroethane	0.227	0.254	-11.9	94	0.00
8	T	Dichlorofluoromethane	0.586	0.516	11.9	77	0.00
9	T	Trichlorofluoromethane	0.332	0.333	-0.3	85	0.00
10	T	sec-Propyl alcohol	0.000	0.000	0.0	120	0.00
11	T	Acrolein	0.016	0.015	6.3	78	0.00
12	T	1,1,2-Trichloro-1,2,2-trifl	0.159	0.149	6.3	80	0.00
13	T	Acetone	0.039	0.038	2.6	86	0.00
14	C,T	1,1-Dichloroethene	0.460	0.434	5.7	83	0.00
15	T	tert-Butyl alcohol	0.015	0.016	-6.7	100	0.00
16	T	Acetonitrile	0.000	0.000	0.0	0#	0.00
17	T	Iodomethane	0.485	0.404	16.7	71	0.00
18	T	Methyl acetate	0.000	0.000	0.0	90	0.00
19	T	Methylene chloride	0.479	0.413	13.8	80	0.00
20	T	Carbon disulfide	1.122	1.062	5.3	71	0.00
21	T	Acrylonitrile	0.052	0.056	-7.7	95	0.00
22	T	tert-Butyl methyl ether (MT	0.455	0.455	0.0	87	0.00
23	T	trans-1,2-Dichloroethene	0.516	0.485	6.0	83	0.00
24	T	Isopropyl ether (DIPE)	1.265	1.246	1.5	85	0.00
25	T	Vinyl acetate	0.465	0.535	-15.1	99	0.00
26	P,T	1,1-Dichloroethane	0.632	0.608	3.8	84	-0.02
27	T	2-Butanol	0.000	0.000	0.0	82	0.00
28	T	tert-Butyl ethyl ether (ETB	0.753	0.730	3.1	84	0.00
29	T	2-Butanone	0.074	0.074	0.0	90	0.00
30	T	2,2-Dichloropropane	0.381	0.374	1.8	88	0.00
31	T	cis-1,2-Dichloroethene	0.370	0.358	3.2	83	-0.02
32	C,T	Chloroform	0.545	0.509	6.6	82	-0.02
33	T	Bromochloromethane	0.274	0.261	4.7	82	0.00
34	S	Dibromofluoromethane	0.300	0.287	4.3	81	-0.02
35	T	Tetrahydrofuran	0.000	0.000	0.0	0#	0.00
36	T	1,1,1-Trichloroethane	0.395	0.373	5.6	83	-0.02
37	T	Cyclohexane	0.000	0.000	0.0	88	-0.02
38	T	1-Butanol	0.000	0.000	0.0	81	-0.02
39	T	tert-Amyl methyl ether (TAM	0.112	0.110	1.8	84	-0.02
40	S	1,2-Dichloroethane-d4	0.234	0.233	0.4	85	0.00
~~41~~	~~I~~	~~CHLOROBENZENE-D5~~	~~1.000~~	~~1.000~~	~~0.0~~	~~92~~	~~0.02~~

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CV001L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
42	T	1,1-Dichloropropene	0.192	0.176	8.3	84	0.00
43	T	Carbon tetrachloride	0.378	0.340	10.1	81	-0.02
44	T	1,2-Dichloroethane	0.335	0.314	6.3	83	-0.02
45	T	Benzene	1.557	1.518	2.5	88	-0.02
46	T	Trichloroethene	0.413	0.390	5.6	83	0.00
47	T	Methylcyclohexane	0.000	0.000	0.0	99	0.00
48	C,T	1,2-Dichloropropane	0.430	0.399	7.2	83	0.00
49	T	1,4-Dioxane	0.001	0.001	0.0	88	-0.02
50	T	Bromodichloromethane	0.460	0.417	9.3	80	-0.02
51	T	Dibromomethane	0.164	0.140	14.6	75	-0.02
52	T	2-Chloroethyl vinyl ether	0.106	0.054	49.1#	46#	-0.02
53	T	4-Methyl-2-pentanone	0.220	0.201	8.6	83	-0.02
54	T	cis-1,3-Dichloropropene	0.581	0.551	5.2	84	0.00
55	S	Toluene-d8	1.303	1.360	-4.4	92	-0.02
56	C,T	Toluene	1.591	1.556	2.2	88	-0.02
57	T	Ethyl methacrylate	0.310	0.275	11.3	77	0.00
58	T	trans-1,3-Dichloropropene	0.409	0.389	4.9	84	0.00
59	T	2-Hexanone	0.137	0.123	10.2	82	0.00
60	T	1,1,2-Trichloroethane	0.220	0.211	4.1	85	-0.02
61	T	1,3-Dichloropropane	0.431	0.398	7.7	82	0.00
62	T	Tetrachloroethene	0.311	0.302	2.9	88	-0.02
63	T	Dibromochloromethane	0.271	0.240	11.4	77	-0.02
64	T	1,2-Dibromoethane	0.216	0.186	13.9	76	-0.02
65	T	1-Chlorohexane	0.651	0.625	4.0	85	-0.02
66	P	Chlorobenzene	0.952	0.924	2.9	86	-0.02
67	T	1,1,1,2-Tetrachloroethane	0.307	0.297	3.3	85	-0.02
68	C,T	Ethylbenzene	1.813	1.731	4.5	87	-0.02
69	T	m-Xylene & p-Xylene	1.332	1.273	4.4	86	-0.02
70	T	o-Xylene	1.301	1.268	2.5	85	-0.02
71	T	Styrene	0.980	0.965	1.5	84	-0.02
72	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	87	0.00
73	T	Isopropylbenzene	4.392	4.499	-2.4	87	-0.02
74	P,T	Bromoform	0.370	0.333	10.0	74	-0.04
75	P,T	1,1,2,2-Tetrachloroethane	0.716	0.656	8.4	79	-0.02
76	S	4-Bromofluorobenzene	1.134	1.197	-5.6	87	-0.02
77	T	1,2,3-Trichloropropane	0.180	0.163	9.4	83	-0.02
78	T	trans-1,4-Dichloro-2-butene	0.185	0.173	6.5	79	-0.02
79	T	n-Propylbenzene	5.832	5.833	-0.0	85	-0.02
80	T	Bromobenzene	0.918	0.900	2.0	83	-0.02
81	T	1,3,5-Trimethylbenzene	3.456	3.494	-1.1	86	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B22\RBV592.D
Acq On : 22 Feb 2011 8:17 pm
Sample : CVO01L1168
Misc : 10.0ppb8260/50.0ppbKET-A-TBA/50.0ppbACN
MS Integration Params: 524C.P

Vial: 3
Operator: MW
Inst : TO01
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO01L11.M (RTE Integrator)
Title : METHOD 8260 25mls
Last Update : Mon Dec 13 08:00:11 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
82	T	2-Chlorotoluene	3.549	3.507	1.2	87	-0.02
83	T	4-Chlorotoluene	3.056	3.069	-0.4	83	-0.04
84	T	tert-Butylbenzene	0.785	0.832	-6.0	91	-0.02
85	T	1,2,4-Trimethylbenzene	3.415	3.437	-0.6	84	-0.02
86	T	sec-Butylbenzene	4.814	4.883	-1.4	87	-0.02
87	T	p-Isopropyltoluene	3.675	3.656	0.5	84	-0.02
88	T	1,3-Dichlorobenzene	1.854	1.841	0.7	84	-0.02
89	T	1,4-Dichlorobenzene	1.782	1.742	2.2	83	0.00
90	T	n-Butylbenzene	3.853	3.772	2.1	83	-0.02
91	T	1,2-Dichlorobenzene	1.506	1.489	1.1	83	-0.02
92	T	1,2-Dibromo-3-chloropropane	0.089	0.081	9.0	77	-0.02
93	T	1,2,4-Trichlorobenzene	0.916	0.861	6.0	81	-0.02
94	T	Hexachlorobutadiene	0.585	0.529	9.6	76	-0.02
95	T	Naphthalene	1.061	1.055	0.6	88	-0.02
96	T	1,2,3-Trichlorobenzene	0.733	0.649	11.5	77	-0.02

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc Contract: OPHA MOFFETT
Lab Code: EMXT Case No.: SAS No.: SDG No.: 11B186
Lab File ID: RBB469 BFB Injection Date : 02/24/11
Instrument ID: T003 BFB Injection Time : 08:14
GC Column:RTX502.2ID:0.32mm (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.36
75	30.0 - 60.0% of mass 95	53.56
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.82
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	78.28
175	5.0 - 9.0% of mass 174	6.03(7.7)1
176	95.0 - 101.0% of mass 174	76.39(97.6)1
177	5.0 - 9.0% of mass 176	4.43(5.8)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV003B1606	RBB470	02/24/11	08:51
2	MBLK3W	V003B28B	RBB475	02/24/11	12:09
3	LCS3W	V003B28X	RBB473	02/24/11	10:53
4	LCD3W	V003B28C	RBB472	02/24/11	10:04
5	SSI-HP-001	B186-01R	RBB476	02/24/11	12:46
6	SSI-TB-001	B186-02R	RBB477	02/24/11	13:23
7	SSI-HP-002	B186-03R	RBB478	02/24/11	13:59
8	SSI-HP-007	B186-08R	RBB479	02/24/11	14:35

FORM V VOA OLM02.0

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBB361
Instrument ID: T003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/16/11
Time Analyzed: 18:45
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1883214	13.43	1714888	18.55	687853	23.11
	UPPER LIMIT	3766428	13.93	3429776	19.05	1375706	23.61
	LOWER LIMIT	941607	12.93	857444	18.05	343927	22.61
	SAMPLE ID						
1	VSTD010	1576842	13.42	1461115	18.52	620011	23.08
2	MBLK3W	1595956	13.42	1423940	18.53	540992	23.08
3	LCS3W	1513394	13.40	1377291	18.52	579405	23.10
4	LCD3W	1669687	13.42	1554121	18.53	671693	23.08
5	SSI-HP-001	1493431	13.42	1301662	18.54	515277	23.10
6	SSI-TB-001	1763809	13.42	1603824	18.54	602793	23.10
7	SSI-HP-002	1684378	13.42	1552308	18.54	602341	23.10
8	SSI-HP-007	1665917	13.42	1481738	18.54	566020	23.10

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

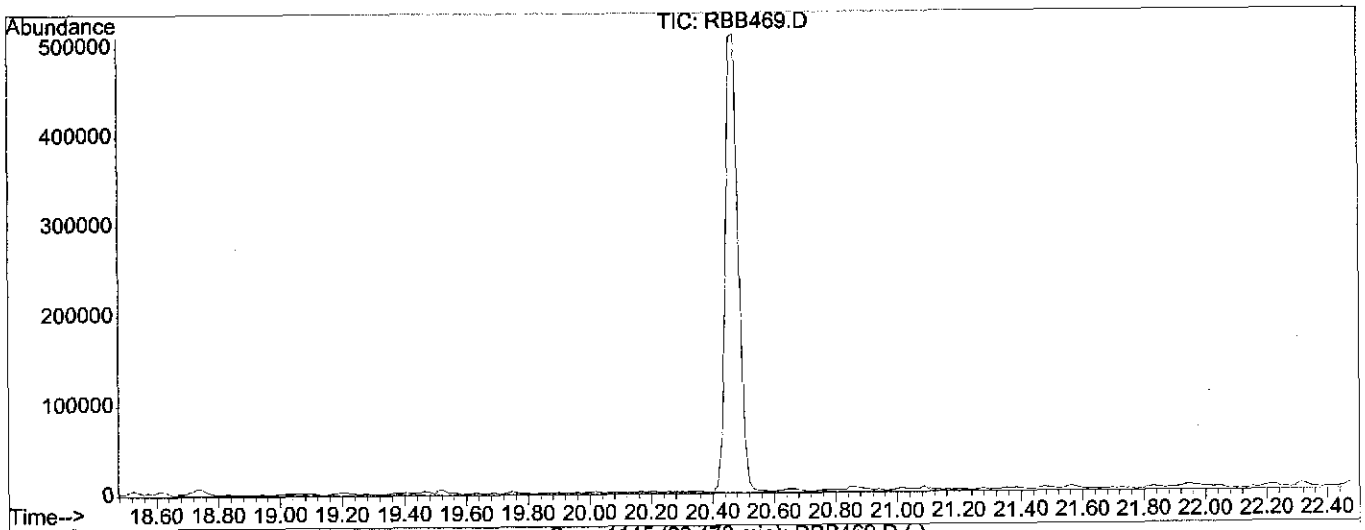
Column used to flag internal standard area values with an asterisk
* Values outside of QC limits.

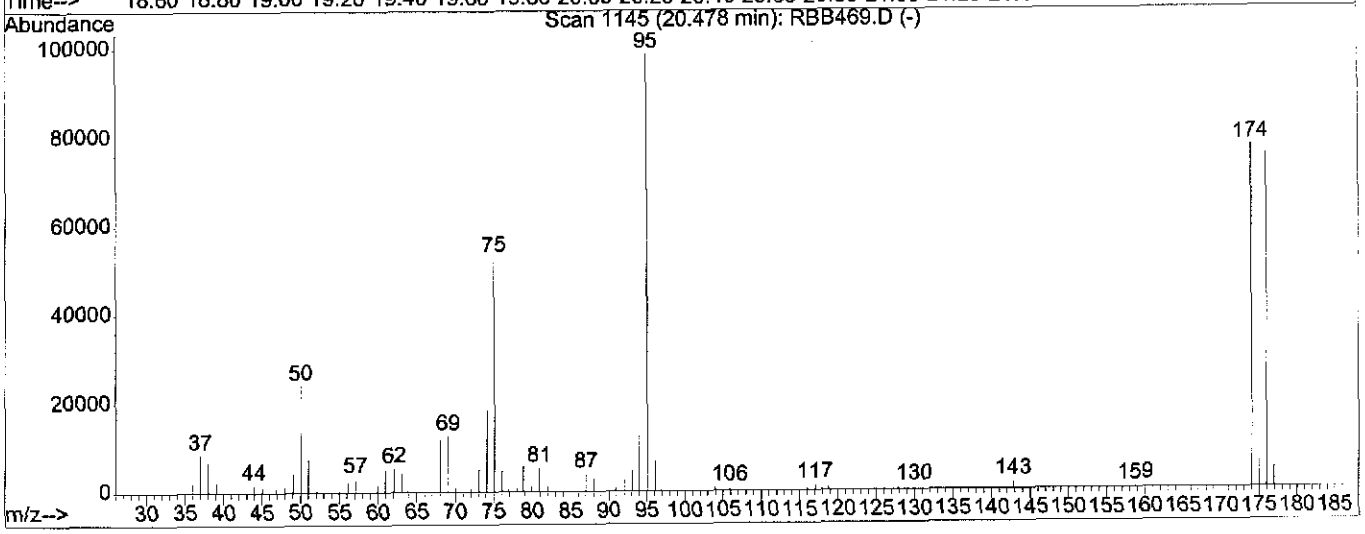
FORM VIII VOA-8260 1/2000

BFB

Data File : D:\HPCHEM\1\DATA\11B24\RBB469.D
Acq On : 24 Feb 2011 8:14 am
Sample : BFB03B28
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL

Vial: 2
Operator: MW
Inst : TO03
Multiplr: 1.00





Spectrum Information: Scan 1145 - SCAN 1135 MW 2/25/11

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	24016	PASS
75	95	30	60	53.6	52792	PASS
95	95	100	100	100.0	98576	PASS
96	95	5	9	6.8	6720	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.3	77168	PASS
175	174	5	9	7.7	5949	PASS
176	174	95	101	97.6	75304	PASS
177	176	5	9	5.8	4366	PASS

RBB469.D VO03B16.M Fri Feb 25 07:06:40 2011

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 9:18 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1576842	10.00 ug/l	-0.02
39) CHLOROBENZENE-D5	18.52	117	1461115	10.00 ug/l	-0.03
70) 1,2-DICHLOROBENZENE-D4	23.08	152	620011	10.00 ug/l	-0.03
System Monitoring Compounds					
34) Dibromofluoromethane	11.85	111	707997	10.46 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 104.60%	
38) 1,2-Dichloroethane-d4	12.76	65	685808	10.34 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 103.40%	
53) Toluene-d8	16.02	98	2100878	9.49 ug/l	-0.03
Spiked Amount 10.000			Recovery	= 94.90%	
74) 4-Bromofluorobenzene	20.48	95	863495	9.06 ug/l	-0.02
Spiked Amount 10.000			Recovery	= 90.60%	

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.57	85	751743	11.23 ug/l	99
4) Chloromethane	4.07	50	782225	11.44 ug/l	97
5) Vinyl chloride	4.32	62	693855	11.48 ug/l	100
6) Bromomethane	5.27	94	500693	11.24 ug/l	99
7) Chloroethane	5.44	64	281808	10.67 ug/l	92
8) Dichlorofluoromethane	5.51	67	1116291	10.26 ug/l	98
9) Trichlorofluoromethane	5.99	101	1001704	11.87 ug/l	100
10) Acrolein	6.87	56	68105	49.97 ug/l	100
11) 1,1,2-Trichloro-1,2,2-trif	6.92	151	334377	9.76 ug/l	99
12) Acetone	6.98	43	329442	50.31 ug/l	98
13) 1,1-Dichloroethene	7.31	61	983932	9.78 ug/l	99
14) tert-Butyl alcohol	7.43	59	88096	47.53 ug/l	81
15) Acetonitrile	7.58	39	34207	81.34 ug/l #	85
17) Iodomethane	8.03	142	920338	9.49 ug/l	96
18) Methylene chloride	8.40	49	605370	8.80 ug/l	98
19) Carbon disulfide	8.49	76	1575582	9.04 ug/l	100
20) Acrylonitrile	8.64	53	264813	50.39 ug/l	98
21) tert-Butyl methyl ether (M	8.70	73	702792	9.56 ug/l	100
22) trans-1,2-Dichloroethene	9.04	61	896419	9.39 ug/l	99
23) Isopropyl ether (DIPE)	9.65	45	1624700	9.27 ug/l	98
24) Vinyl acetate	9.89	43	567253	11.00 ug/l	100
25) 1,1-Dichloroethane	9.93	63	1037724	9.50 ug/l	99
26) 2-Butanol	10.29	45	1013	0.84 ug/l #	59
27) tert-Butyl ethyl ether (ET	10.47	59	1144898	9.36 ug/l	100
28) 2-Butanone	10.74	43	490614	49.12 ug/l	98
29) 2,2-Dichloropropane	11.05	77	666853	11.71 ug/l	97
30) cis-1,2-Dichloroethene	11.14	96	570678	9.28 ug/l	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 9:18 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.44	83	1301266	9.95 ug/l	98
32) Bromochloromethane	11.76	49	458392	9.55 ug/l	99
33) Tetrahydrofuran	11.81	42	44982	7.84 ug/l	95
35) 1,1,1-Trichloroethane	12.20	97	1116313	10.57 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	193559	9.38 ug/l	99
40) 1,1-Dichloropropene	12.48	110	269173	9.25 ug/l	98
41) Carbon tetrachloride	12.69	119	1080833	10.32 ug/l	97
42) 1,2-Dichloroethane	12.93	62	778453	9.89 ug/l	100
43) Benzene	12.99	78	2049685	8.82 ug/l	99
44) Trichloroethene	14.03	130	591701	9.29 ug/l	99
46) 1,2-Dichloropropane	14.33	63	505969	8.94 ug/l	94
47) 1,4-Dioxane	14.73	88	26652	161.59 ug/l	91
48) Bromodichloromethane	14.73	83	931652	10.19 ug/l	99
49) Dibromomethane	14.85	93	321316	9.43 ug/l	99
51) 4-Methyl-2-pentanone	15.19	43	1458930	51.23 ug/l	100
52) cis-1,3-Dichloropropene	15.61	75	869183	10.22 ug/l	97
54) Toluene	16.16	91	2468154	9.62 ug/l	99
55) Ethyl methacrylate	16.29	69	382375	9.86 ug/l	99
56) trans-1,3-Dichloropropene	16.41	75	706645	11.76 ug/l	97
57) 2-Hexanone	16.60	43	1018474	53.40 ug/l	97
58) 1,1,2-Trichloroethane	16.69	97	313383	9.65 ug/l	99
59) 1,3-Dichloropropane	17.10	76	573869	9.48 ug/l	99
60) Tetrachloroethene	17.24	164	583742	9.48 ug/l	99
61) Dibromochloromethane	17.60	129	480293	11.54 ug/l	99
62) 1,2-Dibromoethane	17.94	107	362795	9.63 ug/l	97
63) 1-Chlorohexane	18.03	91	1120537	9.93 ug/l	98
64) Chlorobenzene	18.60	112	1387772	9.30 ug/l	95
65) 1,1,1,2-Tetrachloroethane	18.63	131	556420	10.19 ug/l	99
66) Ethylbenzene	18.63	91	3175897	9.63 ug/l	98
67) m-Xylene & p-Xylene	18.73	91	4978789	19.58 ug/l	98
68) o-Xylene	19.46	91	2429260	9.66 ug/l	97
69) Styrene	19.52	104	1558759	9.68 ug/l	99
71) Isopropylbenzene	20.01	105	2805631	9.07 ug/l	99
72) Bromoform	20.18	173	250272	9.25 ug/l	99
73) 1,1,2,2-Tetrachloroethane	20.30	83	353740	8.68 ug/l	98
75) 1,2,3-Trichloropropane	20.55	110	93273	9.54 ug/l	90
76) trans-1,4-Dichloro-2-buten	20.59	53	105114	11.18 ug/l	99
77) n-Propylbenzene	20.65	91	3995161	9.23 ug/l	100
78) Bromobenzene	20.86	156	612843	8.94 ug/l	100
79) 1,3,5-Trimethylbenzene	20.89	105	2437792	9.12 ug/l	100
80) 2-Chlorotoluene	21.03	91	2411217	9.09 ug/l	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 9:18 2011 Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

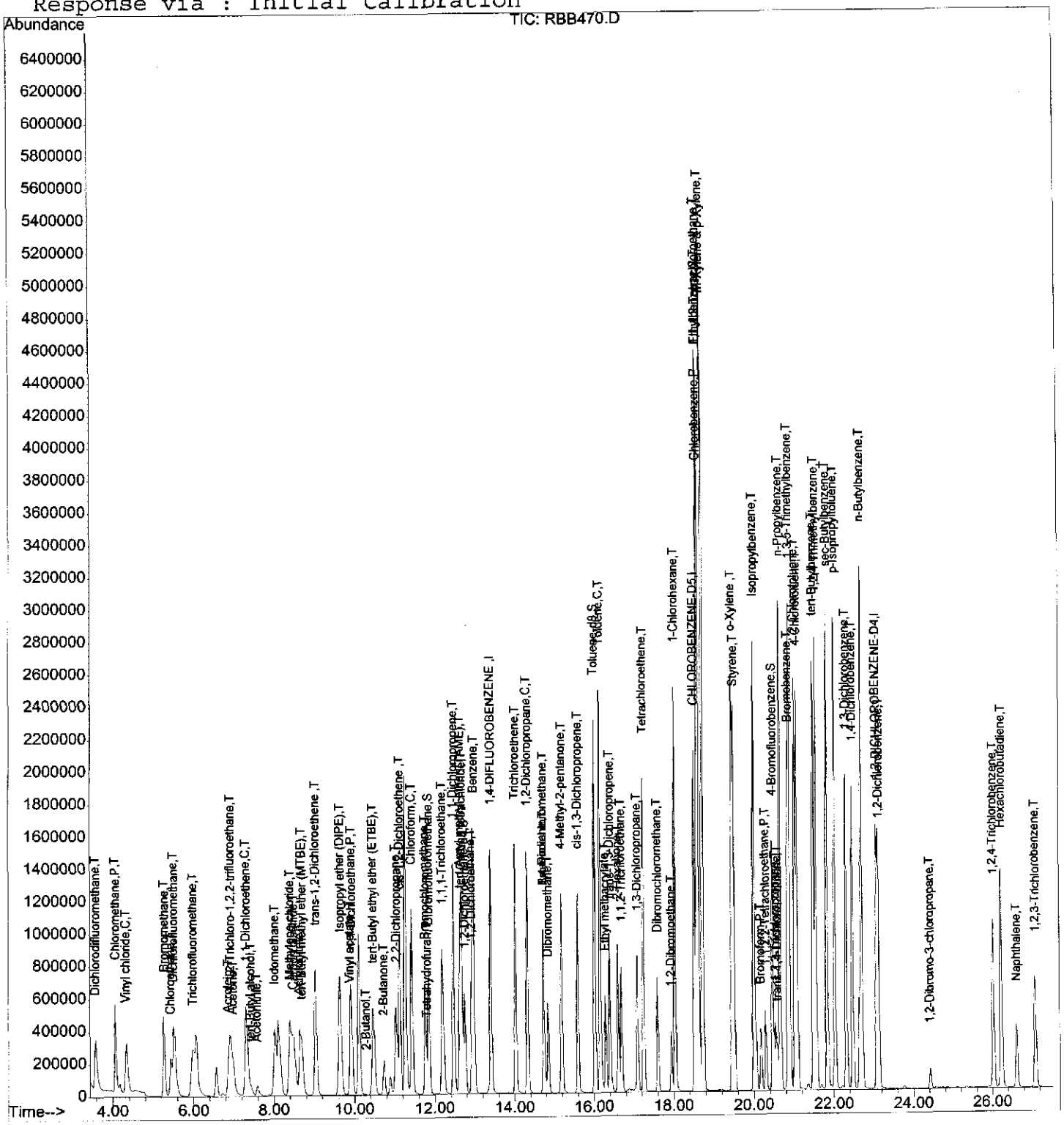
Compound	R.T.	QIon	Response	Conc Unit		Qvalue
81) 4-Chlorotoluene	21.09	91	2058579	9.34 ug/l		89
82) tert-Butylbenzene	21.50	134	402578	8.90 ug/l	#	90
83) 1,2,4-Trimethylbenzene	21.56	105	2419747	9.45 ug/l		98
84) sec-Butylbenzene	21.85	105	3232912	9.40 ug/l		100
85) p-Isopropyltoluene	22.04	119	2436081	9.56 ug/l		99
86) 1,3-Dichlorobenzene	22.32	146	1103427	9.49 ug/l		99
87) 1,4-Dichlorobenzene	22.49	146	1034845	9.43 ug/l		99
88) n-Butylbenzene	22.71	91	2923214	9.98 ug/l		100
89) 1,2-Dichlorobenzene	23.14	146	875366	9.45 ug/l		99
90) 1,2-Dibromo-3-chloropropan	24.42	157	46838	10.18 ug/l		97
91) 1,2,4-Trichlorobenzene	26.03	180	533529	10.50 ug/l		99
92) Hexachlorobutadiene	26.24	225	499261	10.68 ug/l		100
93) Naphthalene	26.63	128	562292	9.44 ug/l		99
94) 1,2,3-Trichlorobenzene	27.10	180	397388	10.49 ug/l		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P
Quant Time: Feb 24 9:18 2011 Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D
Acq On : 24 Feb 2011 8:51 am
Sample : CVO03B1606
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 3
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000	0.0	84	-0.02
2	T	Dichlorodifluoromethane	10.000	11.231	-12.3	85	-0.02
3	T	Dichlorotetrafluoroethane	-1.000	0.000	0.0	85	-0.02
4	P,T	Chloromethane	10.000	11.442	-14.4	89	-0.01
5	C,T	Vinyl chloride	10.000	11.475	-14.7	89	-0.02
6	T	Bromomethane	10.000	11.239	-12.4	86	-0.02
7	T	Chloroethane	10.000	10.668	-6.7	79	-0.02
8	T	Dichlorofluoromethane	10.000	10.264	-2.6	88	-0.03
9	T	Trichlorofluoromethane	10.000	11.873	-18.7	89	-0.02
10	T	Acrolein	50.000	49.966	0.1	97	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	9.762	2.4	84	-0.02
12	T	Acetone	50.000	50.315	-0.6	96	-0.01
13	C,T	1,1-Dichloroethene	10.000	9.776	2.2	82	-0.03
14	T	tert-Butyl alcohol	50.000	47.528	4.9	93	-0.01
15	T	Acetonitrile	100.000	81.335	18.7	83	-0.02
16	T	Methyl acetate	-1.000	0.000	0.0	70	-0.02
17	T	Iodomethane	10.000	9.485	5.2	82	-0.03
18	T	Methylene chloride	10.000	8.804	12.0	79	-0.03
19	T	Carbon disulfide	10.000	9.036	9.6	84	-0.02
20	T	Acrylonitrile	50.000	50.389	-0.8	86	-0.02
21	T	tert-Butyl methyl ether (MT	10.000	9.564	4.4	84	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.386	6.1	79	-0.02
23	T	Isopropyl ether (DIPE)	10.000	9.271	7.3	79	-0.02
24	T	Vinyl acetate	10.000	10.997	-10.0	88	-0.02
25	P,T	1,1-Dichloroethane	10.000	9.499	5.0	81	-0.02
26	T	2-Butanol	50.000	0.837	98.3#	1	-0.06
27	T	tert-Butyl ethyl ether (ETB	10.000	9.359	6.4	83	-0.02
28	T	2-Butanone	50.000	49.118	1.8	86	-0.02
29	T	2,2-Dichloropropane	10.000	11.714	-17.1	95	-0.02
30	T	cis-1,2-Dichloroethene	10.000	9.282	7.2	80	-0.02
31	C,T	Chloroform	10.000	9.953	0.5	86	-0.02
32	T	Bromochloromethane	10.000	9.550	4.5	84	-0.02
33	T	Tetrahydrofuran	10.000	7.844	21.6#	74	-0.02
34	S	Dibromofluoromethane	10.000	10.460	-4.6	92	-0.02
35	T	1,1,1-Trichloroethane	10.000	10.573	-5.7	88	-0.02
36	T	Cyclohexane	-1.000	0.000	0.0	87	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	9.376	6.2	84	-0.02
38	S	1,2-Dichloroethane-d4	10.000	10.341	-3.4	93	-0.02
39	I	CHLOROBENZENE-D5	10.000	10.000	0.0	85	-0.03
40	T	1,1-Dichloropropene	10.000	9.251	7.5	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	10.315	-3.1	87	-0.02
42	T	1,2-Dichloroethane	10.000	9.894	1.1	89	-0.03
43	T	Benzene	10.000	8.823	11.8	81	-0.01
44	T	Trichloroethene	10.000	9.295	7.1	83	-0.02
45	T	Methylcyclohexane	-1.000	0.000	0.0	80	-0.02
46	C,T	1,2-Dichloropropane	10.000	8.944	10.6	79	-0.02
47	T	1,4-Dioxane	200.000	161.593	19.2	85	-0.02
48	T	Bromodichloromethane	10.000	10.192	-1.9	88	-0.03
49	T	Dibromomethane	10.000	9.433	5.7	85	-0.02
50	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.03
51	T	4-Methyl-2-pentanone	50.000	51.226	-2.5	92	-0.02
52	T	cis-1,3-Dichloropropene	10.000	10.221	-2.2	87	-0.02
53	S	Toluene-d8	10.000	9.490	5.1	87	-0.03
54	C,T	Toluene	10.000	9.616	3.8	84	-0.02
55	T	Ethyl methacrylate	10.000	9.860	1.4	84	-0.03
56	T	trans-1,3-Dichloropropene	10.000	11.756	-17.6	90	-0.01
57	T	2-Hexanone	50.000	53.401	-6.8	94	-0.02
58	T	1,1,2-Trichloroethane	10.000	9.650	3.5	86	-0.02
59	T	1,3-Dichloropropane	10.000	9.482	5.2	85	-0.02
60	T	Tetrachloroethene	10.000	9.481	5.2	84	-0.03
61	T	Dibromochloromethane	10.000	11.536	-15.4	89	-0.01
62	T	1,2-Dibromoethane	10.000	9.635	3.7	83	-0.02
63	T	1-Chlorohexane	10.000	9.931	0.7	85	-0.03
64	P	Chlorobenzene	10.000	9.304	7.0	82	-0.02
65	T	1,1,1,2-Tetrachloroethane	10.000	10.189	-1.9	89	-0.03
66	C,T	Ethylbenzene	10.000	9.635	3.7	84	-0.01
67	T	m-Xylene & p-Xylene	20.000	19.583	2.1	85	-0.01
68	T	o-Xylene	10.000	9.659	3.4	85	-0.03
69	T	Styrene	10.000	9.678	3.2	82	-0.02
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	90	-0.03
71	T	Isopropylbenzene	10.000	9.068	9.3	85	-0.01
72	P,T	Bromoform	10.000	9.248	7.5	91	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	10.000	8.683	13.2	84	-0.02
74	S	4-Bromofluorobenzene	10.000	9.057	9.4	91	-0.02
75	T	1,2,3-Trichloropropane	10.000	9.541	4.6	94	-0.02
76	T	trans-1,4-Dichloro-2-butene	10.000	11.179	-11.8	108	-0.01
77	T	n-Propylbenzene	10.000	9.228	7.7	85	-0.03
78	T	Bromobenzene	10.000	8.942	10.6	86	-0.02
79	T	1,3,5-Trimethylbenzene	10.000	9.120	8.8	84	-0.03
80	T	2-Chlorotoluene	10.000	9.088	9.1	92	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	9.339	6.6	81	-0.01
82	T	tert-Butylbenzene	10.000	8.902	11.0	82	-0.02
83	T	1,2,4-Trimethylbenzene	10.000	9.445	5.5	88	-0.01
84	T	sec-Butylbenzene	10.000	9.403	6.0	87	-0.01
85	T	p-Isopropyltoluene	10.000	9.562	4.4	88	-0.01
86	T	1,3-Dichlorobenzene	10.000	9.485	5.2	88	-0.02
87	T	1,4-Dichlorobenzene	10.000	9.433	5.7	87	-0.02
88	T	n-Butylbenzene	10.000	9.978	0.2	87	-0.03
89	T	1,2-Dichlorobenzene	10.000	9.454	5.5	89	-0.02
90	T	1,2-Dibromo-3-chloropropane	10.000	10.185	-1.9	93	-0.03
91	T	1,2,4-Trichlorobenzene	10.000	10.500	-5.0	91	-0.02
92	T	Hexachlorobutadiene	10.000	10.681	-6.8	93	-0.02
93	T	Naphthalene	10.000	9.444	5.6	91	-0.02
94	T	1,2,3-Trichlorobenzene	10.000	10.486	-4.9	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	84	-0.02
2	T	Dichlorodifluoromethane	0.424	0.477	-12.5	85	-0.02
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	85	-0.02
4	P,T	Chloromethane	0.434	0.496	-14.3	89	-0.01
5	C,T	Vinyl chloride	0.383	0.440	-14.9	89	-0.02
6	T	Bromomethane	0.283	0.318	-12.4	86	-0.02
7	T	Chloroethane	0.168	0.179	-6.5	79	-0.02
8	T	Dichlorofluoromethane	0.690	0.708	-2.6	88	-0.03
9	T	Trichlorofluoromethane	0.535	0.635	-18.7	89	-0.02
10	T	Acrolein	0.009	0.009	0.0	97	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	0.217	0.212	2.3	84	-0.02
12	T	Acetone	0.042	0.042	0.0	96	-0.01
13	C,T	1,1-Dichloroethene	0.638	0.624	2.2	82	-0.03
14	T	tert-Butyl alcohol	0.012	0.011	8.3	93	-0.01
15	T	Acetonitrile	0.003	0.002	33.3#	83	-0.02
16	T	Methyl acetate	0.000	0.000	0.0	70	-0.02
17	T	Iodomethane	0.615	0.584	5.0	82	-0.03
18	T	Methylene chloride	0.436	0.384	11.9	79	-0.03
19	T	Carbon disulfide	1.106	0.999	9.7	84	-0.02
20	T	Acrylonitrile	0.033	0.034	-3.0	86	-0.02
21	T	tert-Butyl methyl ether (MT	0.466	0.446	4.3	84	0.00
22	T	trans-1,2-Dichloroethene	0.606	0.568	6.3	79	-0.02
23	T	Isopropyl ether (DIPE)	1.111	1.030	7.3	79	-0.02
24	T	Vinyl acetate	0.327	0.360	-10.1	88	-0.02
25	P,T	1,1-Dichloroethane	0.693	0.658	5.1	81	-0.02
26	T	2-Butanol	0.008	0.000	100.0#	1#	-0.06
27	T	tert-Butyl ethyl ether (ETB	0.776	0.726	6.4	83	-0.02
28	T	2-Butanone	0.063	0.062	1.6	86	-0.02
29	T	2,2-Dichloropropane	0.361	0.423	-17.2	95	-0.02
30	T	cis-1,2-Dichloroethene	0.390	0.362	7.2	80	-0.02
31	C,T	Chloroform	0.829	0.825	0.5	86	-0.02
32	T	Bromochloromethane	0.304	0.291	4.3	84	-0.02
33	T	Tetrahydrofuran	0.036	0.029	19.4	74	-0.02
34	S	Dibromofluoromethane	0.429	0.449	-4.7	92	-0.02
35	T	1,1,1-Trichloroethane	0.670	0.708	-5.7	88	-0.02
36	T	Cyclohexane	0.000	0.000	0.0	87	0.00
37	T	tert-Amyl methyl ether (TAM	0.131	0.123	6.1	84	-0.02
38	S	1,2-Dichloroethane-d4	0.421	0.435	-3.3	93	-0.02
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	85	-0.03
40	T	1,1-Dichloropropene	0.199	0.184	7.5	82	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.717	0.740	-3.2	87	-0.02
42	T	1,2-Dichloroethane	0.538	0.533	0.9	89	-0.03
43	T	Benzene	1.590	1.403	11.8	81	-0.01
44	T	Trichloroethene	0.436	0.405	7.1	83	-0.02
45	T	Methylcyclohexane	0.000	0.000	0.0	80	-0.02
46	C,T	1,2-Dichloropropane	0.387	0.346	10.6	79	-0.02
47	T	1,4-Dioxane	0.001	0.001	0.0	85	-0.02
48	T	Bromodichloromethane	0.626	0.638	-1.9	88	-0.03
49	T	Dibromomethane	0.233	0.220	5.6	85	-0.02
50	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.03
51	T	4-Methyl-2-pentanone	0.195	0.200	-2.6	92	-0.02
52	T	cis-1,3-Dichloropropene	0.582	0.595	-2.2	87	-0.02
53	S	Toluene-d8	1.515	1.438	5.1	87	-0.03
54	C,T	Toluene	1.757	1.689	3.9	84	-0.02
55	T	Ethyl methacrylate	0.265	0.262	1.1	84	-0.03
56	T	trans-1,3-Dichloropropene	0.411	0.484	-17.8	90	-0.01
57	T	2-Hexanone	0.131	0.139	-6.1	94	-0.02
58	T	1,1,2-Trichloroethane	0.222	0.214	3.6	86	-0.02
59	T	1,3-Dichloropropane	0.414	0.393	5.1	85	-0.02
60	T	Tetrachloroethene	0.421	0.400	5.0	84	-0.03
61	T	Dibromochloromethane	0.285	0.329	-15.4	89	-0.01
62	T	1,2-Dibromoethane	0.258	0.248	3.9	83	-0.02
63	T	1-Chlorohexane	0.772	0.767	0.6	85	-0.03
64	P	Chlorobenzene	1.021	0.950	7.0	82	-0.02
65	T	1,1,1,2-Tetrachloroethane	0.374	0.381	-1.9	89	-0.03
66	C,T	Ethylbenzene	2.256	2.174	3.6	84	-0.01
67	T	m-Xylene & p-Xylene	1.740	1.704	2.1	85	-0.01
68	T	o-Xylene	1.721	1.663	3.4	85	-0.03
69	T	Styrene	1.102	1.067	3.2	82	-0.02
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	90	-0.03
71	T	Isopropylbenzene	4.990	4.525	9.3	85	-0.01
72	P,T	Bromoform	0.373	0.404	-8.3	91	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	0.657	0.571	13.1	84	-0.02
74	S	4-Bromofluorobenzene	1.538	1.393	9.4	91	-0.02
75	T	1,2,3-Trichloropropane	0.158	0.150	5.1	94	-0.02
76	T	trans-1,4-Dichloro-2-butene	0.127	0.170	-33.9#	108	-0.01
77	T	n-Propylbenzene	6.983	6.444	7.7	85	-0.03
78	T	Bromobenzene	1.105	0.988	10.6	86	-0.02
79	T	1,3,5-Trimethylbenzene	4.311	3.932	8.8	84	-0.03
80	T	2-Chlorotoluene	4.279	3.889	9.1	92	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B24\RBB470.D Vial: 3
Acq On : 24 Feb 2011 8:51 am Operator: MW
Sample : CVO03B1606 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	3.555	3.320	6.6	81	-0.01
82	T	tert-Butylbenzene	0.729	0.649	11.0	82	-0.02
83	T	1,2,4-Trimethylbenzene	4.132	3.903	5.5	88	-0.01
84	T	sec-Butylbenzene	5.546	5.214	6.0	87	-0.01
85	T	p-Isopropyltoluene	4.109	3.929	4.4	88	-0.01
86	T	1,3-Dichlorobenzene	1.876	1.780	5.1	88	-0.02
87	T	1,4-Dichlorobenzene	1.769	1.669	5.7	87	-0.02
88	T	n-Butylbenzene	4.725	4.715	0.2	87	-0.03
89	T	1,2-Dichlorobenzene	1.493	1.412	5.4	89	-0.02
90	T	1,2-Dibromo-3-chloropropane	0.074	0.076	-2.7	93	-0.03
91	T	1,2,4-Trichlorobenzene	0.820	0.861	-5.0	91	-0.02
92	T	Hexachlorobutadiene	0.754	0.805	-6.8	93	-0.02
93	T	Naphthalene	0.960	0.907	5.5	91	-0.02
94	T	1,2,3-Trichlorobenzene	0.611	0.641	-4.9	92	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBB482
Instrument ID: TO03
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/25/11
BFB Injection Time : 09:16
Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.76
75	30.0 - 60.0% of mass 95	55.01
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.51
173	Less than 2.0% of mass 174	0.00(0.0)1
174	Greater than 50% of mass 95	66.27
175	5.0 - 9.0% of mass 174	5.58(8.4)1
176	95.0 - 101.0% of mass 174	64.20(96.9)1
177	5.0 - 9.0% of mass 176	4.20(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD010	CV003B1607	RBB484	02/25/11	10:30
2	MBLK4W	V003B29B	RBB489	02/25/11	14:12
3	LCS4W	V003B29L	RBB485	02/25/11	11:07
4	LCD4W	V003B29Y	RBB487	02/25/11	12:58
5	SSI-HP-004	B186-05N	RBB491	02/25/11	15:24
6	SSI-HP-004MS	B186-05G	RBB492	02/25/11	16:00
7	SSI-HP-004MSD	B186-05V	RBB493	02/25/11	16:36
8	SSI-HP-005DL	B186-06T	RBB496	02/25/11	18:24

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBB361
Instrument ID: T003
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/16/11
Time Analyzed: 18:45
Heated Purge: (Y/N) N

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	1883214	13.43	1714888	18.55	687853	23.11
	UPPER LIMIT	3766428	13.93	3429776	19.05	1375706	23.61
	LOWER LIMIT	941607	12.93	857444	18.05	343927	22.61
	SAMPLE ID						
1	VSTD010	1818508	13.42	1632594	18.54	682883	23.10
2	MBLK4W	1820853	13.42	1584645	18.54	631256	23.10
3	LCS4W	1732951	13.42	1595040	18.54	689510	23.10
4	LCD4W	1666312	13.42	1524998	18.54	641825	23.11
5	SSI-HP-004	1741419	13.44	1621933	18.55	628548	23.10
6	SSI-HP-004MS	1749133	13.43	1606247	18.55	683161	23.11
7	SSI-HP-004MSD	1797495	13.44	1609499	18.54	654589	23.12
8	SSI-HP-005DL	1525572	13.43	1384246	18.56	518343	23.11

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

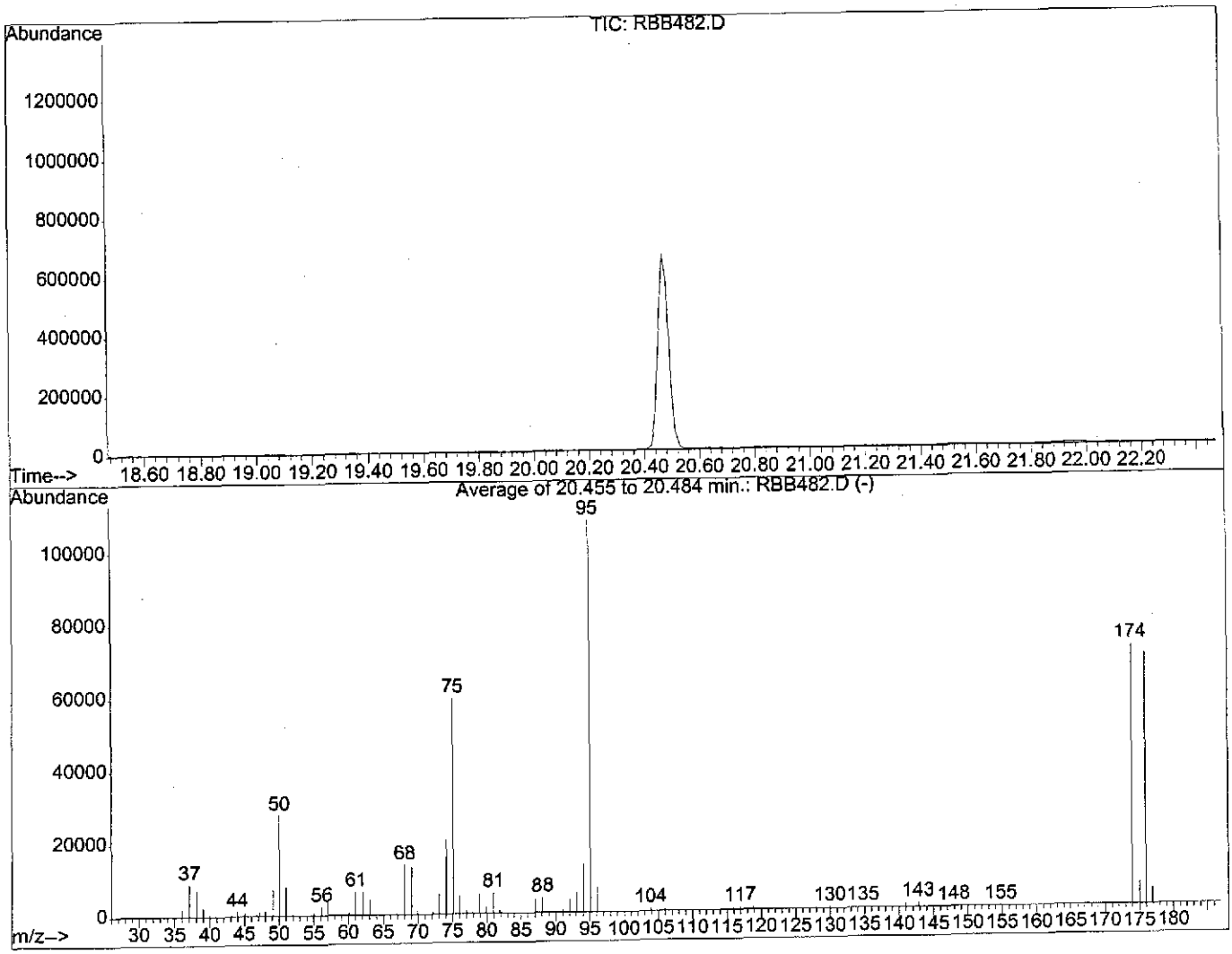
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

BFB

Data File : D:\HPCHEM\1\DATA\11B25\RBB482.D
Acq On : 25 Feb 2011 9:16 am
Sample : BFB03B29
Misc : T/CHECK
MS Integration Params: 524INT.P
Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL

Vial: 2
Operator: MW
Inst : TO03
Multiplr: 1.00



AutoFind: Scans 1133, 1134, 1135; Background Corrected with Scan 1127

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.8	27805	PASS
75	95	30	60	55.0	59368	PASS
95	95	100	100	100.0	107923	PASS
96	95	5	9	6.5	7021	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.3	71520	PASS
175	174	5	9	8.4	6019	PASS
176	174	95	101	96.9	69283	PASS
177	176	5	9	6.5	4533	PASS

RBB482.D VO03B16.M Fri Feb 25 11:00:04 2011

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 10:57 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-DIFLUOROBENZENE	13.42	114	1818508	10.00	ug/l	-0.02
39) CHLOROBENZENE-D5	18.54	117	1632594	10.00	ug/l	-0.02
70) 1,2-DICHLOROBENZENE-D4	23.10	152	682883	10.00	ug/l	-0.02
System Monitoring Compounds						
34) Dibromofluoromethane	11.85	111	780972	10.00	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	100.00%	
38) 1,2-Dichloroethane-d4	12.76	65	776895	10.16	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	101.60%	
53) Toluene-d8	16.04	98	2321540	9.39	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	93.90%	
74) 4-Bromofluorobenzene	20.48	95	956594	9.11	ug/l	-0.02
Spiked Amount 10.000			Recovery	=	91.10%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.57	85	745016	9.65	ug/l	99
4) Chloromethane	4.07	50	762676	9.67	ug/l	100
5) Vinyl chloride	4.33	62	686067	9.84	ug/l	97
6) Bromomethane	5.27	94	476605	9.28	ug/l	97
7) Chloroethane	5.45	64	276716	9.08	ug/l	96
8) Dichlorofluoromethane	5.53	67	1157982	9.23	ug/l	100
9) Trichlorofluoromethane	5.99	101	982134	10.09	ug/l	100
10) Acrolein	6.87	56	78277	49.80	ug/l	94
11) 1,1,2-Trichloro-1,2,2-trif	6.92	151	350281	8.87	ug/l	98
12) Acetone	7.00	43	358205	47.44	ug/l	93
13) 1,1-Dichloroethene	7.33	61	1026189	8.84	ug/l	100
14) tert-Butyl alcohol	7.45	59	88033	41.18	ug/l	93
15) Acetonitrile	7.59	39	36271	74.78	ug/l	94
17) Iodomethane	8.04	142	992575	8.87	ug/l	96
18) Methylene chloride	8.41	49	674064	8.50	ug/l	99
19) Carbon disulfide	8.49	76	1864562	9.27	ug/l	100
20) Acrylonitrile	8.65	53	307118	50.67	ug/l	99
21) tert-Butyl methyl ether (M	8.70	73	807971	9.53	ug/l	98
22) trans-1,2-Dichloroethene	9.04	61	1010687	9.18	ug/l	98
23) Isopropyl ether (DIPE)	9.65	45	1886330	9.33	ug/l	100
24) Vinyl acetate	9.89	43	657120	11.05	ug/l	99
25) 1,1-Dichloroethane	9.93	63	1151715	9.14	ug/l	100
26) 2-Butanol	10.35	45	1963	1.41	ug/l #	59
27) tert-Butyl ethyl ether (ET	10.47	59	1327301	9.41	ug/l	98
28) 2-Butanone	10.74	43	570129	49.49	ug/l	95
29) 2,2-Dichloropropane	11.05	77	709572	10.81	ug/l	97
30) cis-1,2-Dichloroethene	11.14	96	655703	9.25	ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 10:57 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Chloroform	11.44	83	1407532	9.34 ug/l	99
32) Bromochloromethane	11.76	49	512240	9.25 ug/l	99
33) Tetrahydrofuran	11.81	42	58831	8.90 ug/l	97
35) 1,1,1-Trichloroethane	12.21	97	1184592	9.73 ug/l	99
37) tert-Amyl methyl ether (TA	12.64	87	232281	9.76 ug/l	98
40) 1,1-Dichloropropene	12.48	110	286609	8.82 ug/l	97
41) Carbon tetrachloride	12.69	119	1144865	9.78 ug/l	98
42) 1,2-Dichloroethane	12.94	62	879386	10.00 ug/l	99
43) Benzene	12.99	78	2222217	8.56 ug/l	99
44) Trichloroethene	14.03	130	640320	9.00 ug/l	99
46) 1,2-Dichloropropane	14.33	63	569288	9.01 ug/l	93
47) 1,4-Dioxane	14.74	88	31178	169.18 ug/l	83
48) Bromodichloromethane	14.74	83	987963	9.67 ug/l	99
49) Dibromomethane	14.86	93	367716	9.66 ug/l	98
51) 4-Methyl-2-pentanone	15.19	43	1743221	54.78 ug/l	99
52) cis-1,3-Dichloropropene	15.61	75	950884	10.01 ug/l	98
54) Toluene	16.17	91	2595317	9.05 ug/l	100
55) Ethyl methacrylate	16.31	69	437326	10.09 ug/l	99
56) trans-1,3-Dichloropropene	16.41	75	788121	11.73 ug/l	96
57) 2-Hexanone	16.62	43	1173845	55.08 ug/l	100
58) 1,1,2-Trichloroethane	16.69	97	341675	9.42 ug/l	99
59) 1,3-Dichloropropane	17.10	76	647521	9.57 ug/l	99
60) Tetrachloroethene	17.26	164	630564	9.17 ug/l	99
61) Dibromochloromethane	17.62	129	534835	11.50 ug/l	98
62) 1,2-Dibromoethane	17.94	107	406104	9.65 ug/l	98
63) 1-Chlorohexane	18.05	91	1158861	9.19 ug/l	99
64) Chlorobenzene	18.60	112	1538075	9.23 ug/l	98
65) 1,1,1,2-Tetrachloroethane	18.64	131	602467	9.87 ug/l	98
66) Ethylbenzene	18.63	91	3418931	9.28 ug/l	100
67) m-Xylene & p-Xylene	18.75	91	5309668	18.69 ug/l	99
68) o-Xylene	19.48	91	2593068	9.23 ug/l	99
69) Styrene	19.52	104	1730234	9.61 ug/l	99
71) Isopropylbenzene	20.01	105	2986387	8.76 ug/l	99
72) Bromoform	20.18	173	286849	9.61 ug/l	100
73) 1,1,2,2-Tetrachloroethane	20.30	83	406831	9.07 ug/l	99
75) 1,2,3-Trichloropropane	20.55	110	102157	9.49 ug/l	98
76) trans-1,4-Dichloro-2-buten	20.59	53	114439	11.06 ug/l	97
77) n-Propylbenzene	20.67	91	4209973	8.83 ug/l	99
78) Bromobenzene	20.86	156	676881	8.97 ug/l	97
79) 1,3,5-Trimethylbenzene	20.91	105	2656524	9.02 ug/l	100
80) 2-Chlorotoluene	21.04	91	2412308	8.26 ug/l	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 10:57 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Quant Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration
DataAcq Meth : VO03B16

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
81) 4-Chlorotoluene	21.09	91	2368894	9.76 ug/l	99
82) tert-Butylbenzene	21.50	134	446357	8.96 ug/l	96
83) 1,2,4-Trimethylbenzene	21.58	105	2598271	9.21 ug/l	98
84) sec-Butylbenzene	21.85	105	3418690	9.03 ug/l	99
85) p-Isopropyltoluene	22.04	119	2614322	9.32 ug/l	99
86) 1,3-Dichlorobenzene	22.32	146	1202227	9.38 ug/l	98
87) 1,4-Dichlorobenzene	22.50	146	1118603	9.26 ug/l	99
88) n-Butylbenzene	22.72	91	3031291	9.39 ug/l	98
89) 1,2-Dichlorobenzene	23.14	146	940588	9.22 ug/l	100
90) 1,2-Dibromo-3-chloropropan	24.44	157	52356	10.34 ug/l	96
91) 1,2,4-Trichlorobenzene	26.04	180	588410	10.51 ug/l	99
92) Hexachlorobutadiene	26.24	225	519380	10.09 ug/l	98
93) Naphthalene	26.63	128	651286	9.93 ug/l	100
94) 1,2,3-Trichlorobenzene	27.10	180	442080	10.59 ug/l	99

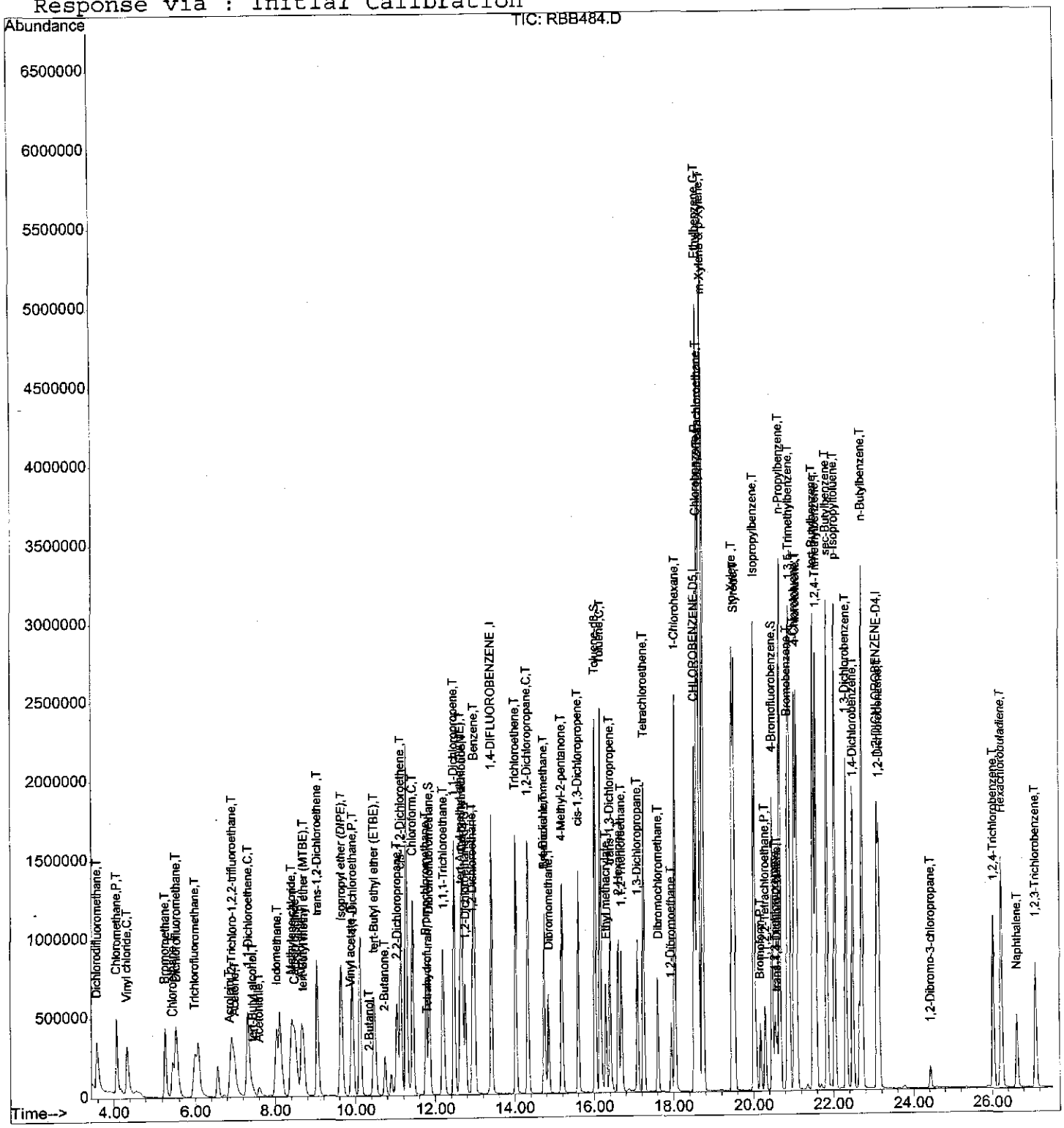
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P
Quant Time: Feb 25 10:57 2011

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00
Quant Results File: VO03B16.RES

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	10.000	10.000		0.0	97	-0.02
2	T	Dichlorodifluoromethane	10.000	9.651		3.5	84	-0.02
3	T	Dichlorotetrafluoroethane	-1.000	0.000		0.0	84	-0.02
4	P,T	Chloromethane	10.000	9.673		3.3	86	-0.01
5	C,T	Vinyl chloride	10.000	9.839		1.6	88	0.00
6	T	Bromomethane	10.000	9.277		7.2	82	-0.02
7	T	Chloroethane	10.000	9.083		9.2	78	0.00
8	T	Dichlorofluoromethane	10.000	9.232		7.7	91	-0.01
9	T	Trichlorofluoromethane	10.000	10.094		-0.9	87	-0.02
10	T	Acrolein	50.000	49.797		0.4	111	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	10.000	8.867		11.3	88	-0.02
12	T	Acetone	50.000	47.437		5.1	105	0.00
13	C,T	1,1-Dichloroethene	10.000	8.841		11.6	86	-0.02
14	T	tert-Butyl alcohol	50.000	41.182		17.6	93	0.00
15	T	Acetonitrile	100.000	74.782	NT	25.2#	88	0.00
16	T	Methyl acetate	-1.000	0.000		0.0	92	-0.02
17	T	Iodomethane	10.000	8.870		11.3	88	-0.02
18	T	Methylene chloride	10.000	8.500		15.0	88	-0.02
19	T	Carbon disulfide	10.000	9.272		7.3	99	-0.02
20	T	Acrylonitrile	50.000	50.673		-1.3	100	0.00
21	T	tert-Butyl methyl ether (MT	10.000	9.534		4.7	97	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.176		8.2	89	-0.02
23	T	Isopropyl ether (DIPE)	10.000	9.333		6.7	92	-0.02
24	T	Vinyl acetate	10.000	11.046		-10.5	102	-0.02
25	P,T	1,1-Dichloroethane	10.000	9.141		8.6	90	-0.02
26	T	2-Butanol	50.000	1.407	NT	97.2#	3	0.00
27	T	tert-Butyl ethyl ether (ETB	10.000	9.408		5.9	96	-0.02
28	T	2-Butanone	50.000	49.493		1.0	100	-0.02
29	T	2,2-Dichloropropane	10.000	10.808		-8.1	102	-0.02
30	T	cis-1,2-Dichloroethene	10.000	9.248		7.5	92	-0.02
31	C,T	Chloroform	10.000	9.335		6.6	93	-0.02
32	T	Bromochloromethane	10.000	9.254		7.5	94	-0.02
33	T	Tetrahydrofuran	10.000	8.896		11.0	97	-0.02
34	S	Dibromofluoromethane	10.000	10.004		-0.0	102	-0.02
35	T	1,1,1-Trichloroethane	10.000	9.729		2.7	94	0.00
36	T	Cyclohexane	-1.000	0.000		0.0	86	0.00
37	T	tert-Amyl methyl ether (TAM	10.000	9.756		2.4	101	-0.02
38	S	1,2-Dichloroethane-d4	10.000	10.158		-1.6	106	-0.02
39	I	CHLOROBENZENE-D5	10.000	10.000		0.0	95	-0.02
40	T	1,1-Dichloropropene	10.000	8.816		11.8	87	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	10.000	9.779	2.2	92	-0.02
42	T	1,2-Dichloroethane	10.000	10.003	-0.0	100	-0.02
43	T	Benzene	10.000	8.561	14.4	88	-0.01
44	T	Trichloroethene	10.000	9.002	10.0	90	-0.02
45	T	Methylcyclohexane	-1.000	0.000	0.0	91	-0.02
46	C,T	1,2-Dichloropropane	10.000	9.006	9.9	89	-0.02
47	T	1,4-Dioxane	200.000	169.180	15.4	99	0.00
48	T	Bromodichloromethane	10.000	9.673	3.3	93	-0.02
49	T	Dibromomethane	10.000	9.661	3.4	97	0.00
50	T	2-Chloroethyl vinyl ether	-1.000	0.000	0.0	0	-0.01
51	T	4-Methyl-2-pentanone	50.000	54.779	-9.6	110	-0.02
52	T	cis-1,3-Dichloropropene	10.000	10.008	-0.1	95	-0.02
53	S	Toluene-d8	10.000	9.385	6.2	96	-0.02
54	C,T	Toluene	10.000	9.050	9.5	89	0.00
55	T	Ethyl methacrylate	10.000	10.092	-0.9	96	-0.02
56	T	trans-1,3-Dichloropropene	10.000	11.735	-17.3	100	-0.01
57	T	2-Hexanone	50.000	55.082	-10.2	108	0.00
58	T	1,1,2-Trichloroethane	10.000	9.416	5.8	93	-0.02
59	T	1,3-Dichloropropane	10.000	9.575	4.3	96	-0.02
60	T	Tetrachloroethene	10.000	9.166	8.3	90	-0.02
61	T	Dibromochloromethane	10.000	11.496	-15.0	99	0.00
62	T	1,2-Dibromoethane	10.000	9.652	3.5	93	-0.02
63	T	1-Chlorohexane	10.000	9.192	8.1	88	-0.02
64	P	Chlorobenzene	10.000	9.229	7.7	91	-0.02
65	T	1,1,1,2-Tetrachloroethane	10.000	9.873	1.3	97	-0.02
66	C,T	Ethylbenzene	10.000	9.283	7.2	90	-0.01
67	T	m-Xylene & p-Xylene	20.000	18.691	6.5	91	0.00
68	T	o-Xylene	10.000	9.227	7.7	91	-0.01
69	T	Styrene	10.000	9.615	3.8	91	-0.02
70	I	1,2-DICHLOROBENZENE-D4	10.000	10.000	0.0	99	-0.02
71	T	Isopropylbenzene	10.000	8.763	12.4	90	-0.01
72	P,T	Bromoform	10.000	9.611	3.9	104	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	10.000	9.067	9.3	97	-0.02
74	S	4-Bromofluorobenzene	10.000	9.109	8.9	100	-0.02
75	T	1,2,3-Trichloropropane	10.000	9.488	5.1	103	-0.02
76	T	trans-1,4-Dichloro-2-butene	10.000	11.057	-10.6	117	-0.01
77	T	n-Propylbenzene	10.000	8.829	11.7	90	-0.01
78	T	Bromobenzene	10.000	8.967	10.3	95	-0.02
79	T	1,3,5-Trimethylbenzene	10.000	9.023	9.8	92	-0.01
80	T	2-Chlorotoluene	10.000	8.255	17.4	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D
Acq On : 25 Feb 2011 10:30 am
Sample : CVO03B1607
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN
MS Integration Params: 524INT.P

Vial: 4
Operator: MW
Inst : TO03
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	10.000	9.757	2.4	94	-0.01
82	T	tert-Butylbenzene	10.000	8.961	10.4	91	-0.02
83	T	1,2,4-Trimethylbenzene	10.000	9.208	7.9	94	0.00
84	T	sec-Butylbenzene	10.000	9.027	9.7	92	-0.01
85	T	p-Isopropyltoluene	10.000	9.317	6.8	94	-0.01
86	T	1,3-Dichlorobenzene	10.000	9.383	6.2	96	-0.02
87	T	1,4-Dichlorobenzene	10.000	9.258	7.4	94	0.00
88	T	n-Butylbenzene	10.000	9.394	6.1	90	-0.01
89	T	1,2-Dichlorobenzene	10.000	9.223	7.8	95	-0.02
90	T	1,2-Dibromo-3-chloropropane	10.000	10.336	-3.4	104	-0.01
91	T	1,2,4-Trichlorobenzene	10.000	10.514	-5.1	100	0.00
92	T	Hexachlorobutadiene	10.000	10.088	-0.9	97	-0.02
93	T	Naphthalene	10.000	9.932	0.7	105	-0.02
94	T	1,2,3-Trichlorobenzene	10.000	10.591	-5.9	102	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D Vial: 4
Acq On : 25 Feb 2011 10:30 am Operator: MW
Sample : CVO03B1607 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	97	-0.02
2	T	Dichlorodifluoromethane	0.424	0.410	3.3	84	-0.02
3	T	Dichlorotetrafluoroethane	0.000	0.000	0.0	84	-0.02
4	P,T	Chloromethane	0.434	0.419	3.5	86	-0.01
5	C,T	Vinyl chloride	0.383	0.377	1.6	88	0.00
6	T	Bromomethane	0.283	0.262	7.4	82	-0.02
7	T	Chloroethane	0.168	0.152	9.5	78	0.00
8	T	Dichlorofluoromethane	0.690	0.637	7.7	91	-0.01
9	T	Trichlorofluoromethane	0.535	0.540	-0.9	87	-0.02
10	T	Acrolein	0.009	0.009	0.0	111	-0.01
11	T	1,1,2-Trichloro-1,2,2-trifl	0.217	0.193	11.1	88	-0.02
12	T	Acetone	0.042	0.039	7.1	105	0.00
13	C,T	1,1-Dichloroethene	0.638	0.564	11.6	86	-0.02
14	T	tert-Butyl alcohol	0.012	0.010	16.7	93	0.00
15	T	Acetonitrile	0.003	0.002	33.3#	88	0.00
16	T	Methyl acetate	0.000	0.000	0.0	92	-0.02
17	T	Iodomethane	0.615	0.546	11.2	88	-0.02
18	T	Methylene chloride	0.436	0.371	14.9	88	-0.02
19	T	Carbon disulfide	1.106	1.025	7.3	99	-0.02
20	T	Acrylonitrile	0.033	0.034	-3.0	100	0.00
21	T	tert-Butyl methyl ether (MT	0.466	0.444	4.7	97	0.00
22	T	trans-1,2-Dichloroethene	0.606	0.556	8.3	89	-0.02
23	T	Isopropyl ether (DIPE)	1.111	1.037	6.7	92	-0.02
24	T	Vinyl acetate	0.327	0.361	-10.4	102	-0.02
25	P,T	1,1-Dichloroethane	0.693	0.633	8.7	90	-0.02
26	T	2-Butanol	0.008	0.000	100.0#	3#	0.00
27	T	tert-Butyl ethyl ether (ETB	0.776	0.730	5.9	96	-0.02
28	T	2-Butanone	0.063	0.063	0.0	100	-0.02
29	T	2,2-Dichloropropane	0.361	0.390	-8.0	102	-0.02
30	T	cis-1,2-Dichloroethene	0.390	0.361	7.4	92	-0.02
31	C,T	Chloroform	0.829	0.774	6.6	93	-0.02
32	T	Bromochloromethane	0.304	0.282	7.2	94	-0.02
33	T	Tetrahydrofuran	0.036	0.032	11.1	97	-0.02
34	S	Dibromofluoromethane	0.429	0.429	0.0	102	-0.02
35	T	1,1,1-Trichloroethane	0.670	0.651	2.8	94	0.00
36	T	Cyclohexane	0.000	0.000	0.0	86	0.00
37	T	tert-Amyl methyl ether (TAM	0.131	0.128	2.3	101	-0.02
38	S	1,2-Dichloroethane-d4	0.421	0.427	-1.4	106	-0.02
39	I	CHLOROBENZENE-D5	1.000	1.000	0.0	95	-0.02
40	T	1,1-Dichloropropene	0.199	0.176	11.6	87	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D Vial: 4
Acq On : 25 Feb 2011 10:30 am Operator: MW
Sample : CVO03B1607 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	T	Carbon tetrachloride	0.717	0.701	2.2	92	-0.02
42	T	1,2-Dichloroethane	0.538	0.539	-0.2	100	-0.02
43	T	Benzene	1.590	1.361	14.4	88	-0.01
44	T	Trichloroethene	0.436	0.392	10.1	90	-0.02
45	T	Methylcyclohexane	0.000	0.000	0.0	91	-0.02
46	C,T	1,2-Dichloropropane	0.387	0.349	9.8	89	-0.02
47	T	1,4-Dioxane	0.001	0.001	0.0	99	0.00
48	T	Bromodichloromethane	0.626	0.605	3.4	93	-0.02
49	T	Dibromomethane	0.233	0.225	3.4	97	0.00
50	T	2-Chloroethyl vinyl ether	0.000	0.000	0.0	0#	-0.01
51	T	4-Methyl-2-pentanone	0.195	0.214	-9.7	110	-0.02
52	T	cis-1,3-Dichloropropene	0.582	0.582	0.0	95	-0.02
53	S	Toluene-d8	1.515	1.422	6.1	96	-0.02
54	C,T	Toluene	1.757	1.590	9.5	89	0.00
55	T	Ethyl methacrylate	0.265	0.268	-1.1	96	-0.02
56	T	trans-1,3-Dichloropropene	0.411	0.483	-17.5	100	-0.01
57	T	2-Hexanone	0.131	0.144	-9.9	108	0.00
58	T	1,1,2-Trichloroethane	0.222	0.209	5.9	93	-0.02
59	T	1,3-Dichloropropane	0.414	0.397	4.1	96	-0.02
60	T	Tetrachloroethene	0.421	0.386	8.3	90	-0.02
61	T	Dibromochloromethane	0.285	0.328	-15.1	99	0.00
62	T	1,2-Dibromoethane	0.258	0.249	3.5	93	-0.02
63	T	1-Chlorohexane	0.772	0.710	8.0	88	-0.02
64	P	Chlorobenzene	1.021	0.942	7.7	91	-0.02
65	T	1,1,1,2-Tetrachloroethane	0.374	0.369	1.3	97	-0.02
66	C,T	Ethylbenzene	2.256	2.094	7.2	90	-0.01
67	T	m-Xylene & p-Xylene	1.740	1.626	6.6	91	0.00
68	T	o-Xylene	1.721	1.588	7.7	91	-0.01
69	T	Styrene	1.102	1.060	3.8	91	-0.02
70	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	99	-0.02
71	T	Isopropylbenzene	4.990	4.373	12.4	90	-0.01
72	P,T	Bromoform	0.373	0.420	-12.6	104	-0.01
73	P,T	1,1,2,2-Tetrachloroethane	0.657	0.596	9.3	97	-0.02
74	S	4-Bromofluorobenzene	1.538	1.401	8.9	100	-0.02
75	T	1,2,3-Trichloropropane	0.158	0.150	5.1	103	-0.02
76	T	trans-1,4-Dichloro-2-butene	0.127	0.168	-32.3#	117	-0.01
77	T	n-Propylbenzene	6.983	6.165	11.7	90	-0.01
78	T	Bromobenzene	1.105	0.991	10.3	95	-0.02
79	T	1,3,5-Trimethylbenzene	4.311	3.890	9.8	92	-0.01
80	T	2-Chlorotoluene	4.279	3.533	17.4	92	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : D:\HPCHEM\1\DATA\11B25\RBB484.D Vial: 4
Acq On : 25 Feb 2011 10:30 am Operator: MW
Sample : CVO03B1607 Inst : TO03
Misc : 10.0ppb 8260/50.0ppb TBA-KET/50.0ppb ACN Multiplr: 1.00
MS Integration Params: 524INT.P

Method : D:\HPCHEM\1\METHODS\VO03B16.M (RTE Integrator)
Title : METHOD 8260 25mL
Last Update : Thu Feb 17 08:30:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	T	4-Chlorotoluene	3.555	3.469	2.4	94	-0.01
82	T	tert-Butylbenzene	0.729	0.654	10.3	91	-0.02
83	T	1,2,4-Trimethylbenzene	4.132	3.805	7.9	94	0.00
84	T	sec-Butylbenzene	5.546	5.006	9.7	92	-0.01
85	T	p-Isopropyltoluene	4.109	3.828	6.8	94	-0.01
86	T	1,3-Dichlorobenzene	1.876	1.761	6.1	96	-0.02
87	T	1,4-Dichlorobenzene	1.769	1.638	7.4	94	0.00
88	T	n-Butylbenzene	4.725	4.439	6.1	90	-0.01
89	T	1,2-Dichlorobenzene	1.493	1.377	7.8	95	-0.02
90	T	1,2-Dibromo-3-chloropropane	0.074	0.077	-4.1	104	-0.01
91	T	1,2,4-Trichlorobenzene	0.820	0.862	-5.1	100	0.00
92	T	Hexachlorobutadiene	0.754	0.761	-0.9	97	-0.02
93	T	Naphthalene	0.960	0.954	0.6	105	-0.02
94	T	1,2,3-Trichlorobenzene	0.611	0.647	-5.9	102	-0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/22/11 ☐ 5-ml Purge ☐ 15-ml Purge ☐ 25-ml Purge

Book # A01 -036

BATCH V001L1167

	Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01		RBV167	BP1301B28	2.2					6:34 am
02		168	CV001L1167	11ml-L					
03		169	V001B28 L						
04		170	C						
05		171	NIA IE	5mL					
06		172	V001B28B						
07		173	11B189-01R		1.0	✓			
08		174	-02R			7			
09		175	-03R						
10		176	-04R						
11		177	11B186-10			✓	✓		
12		178	-09			✓	✓		
13		179	-07			~~7~~	~~7~~ >10		
14		180	-02			✓	✓		-MB/10
15		181	-04			7	✓		
16		182	-05			✓	✓		
17		183	-07M			✓			} in MEMPHIS FINAL TCE
18		184	-07I			✓			
19		185	-01			✓	✓		
20		186	-03			✓	✓		} in CFO
21		187	-06			✓	✓		
22		188	-08			✓	✓		-MX
23		189	NIA IE						-in CFO
24		190							
25									
26									
27									
28									
29									
30									

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	12/11/10
ICAL ID	V001L11

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC	JV1-17-6-3	1	
DCC	-9-2	1	
DCC	-9-1	1	
DCC	-5-3	1	
BFB	JV1-16-98-2	2	10/200
IS/SURR.	JV1-17-7-1	1	
ICV/LCS	-8-1	1	
ICV/LCS	JV1-16-86-2	1	
ICV/LCS	JV1-17-2-2	1	
ICV/LCS	JV1-16-87-1	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11B22		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: MW

Date Disposed: 2/10/11

Disposed By: NW

NW 2/23/11

2335

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/22/11 ☐ 5-ml Purge ☐ 15-ml Purge ☑ 25-ml Purge

Book # A01 -036

BATCH CV001116A

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RBV191	BPB01B29	25L					7:48pm
02	192	CV001116	25L					
03	193	V001B294	↓					
04	194	↓ C	↓					
05	195	NONE	25mL					
06	196	V001B29 B						
07	197	11B146-11		1.0	✓	✓		
08	198	↓ -13			✓	✓		
09	199	11B215-02			✓	✓		
10	600	-03			✓	✓		
11	601	-04			✓	✓		
12	602	-05			✓	✓		-m not impact IS
13	603	-06			✓	✓		
14	604	-07			✓	✓		
15	605	-08			✓	✓		
16	606	-09			✓	✓		
17	607	-10			✓	✓		
18	608	-11		↓	✓	✓		-m for 1010 (not impact IS)
19	609	NONE	↓					2/23/11 5:29am
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30			NW	2/23/11				

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	12/11/10
ICAL ID	V001116

STANDARDS

NAME	ID	Amount (µl)	Conc. (mg/L)
DCC	JV1-17-10-3	1	
DCC	-8-2	1	
DCC	-8-1	1	
DCC	↓ -1-3	1	
BFB	JV1-16-98-2	2	
IS/SURR.	JV1-17-7-1	1	50/50
ICV/LCS	↓ -8-1	1	
ICV/LCS	JV1-16-86-2	1	
ICV/LCS	JV1-16-87-1	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11B22		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T001	

Comments:

Analyzed By: NW

Date Disposed: 2/23/11

Disposed By: NW

2336

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. ~~5~~ 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No. 0 ☐

Start Date: 12/11/10 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A01 -035

BATCH V001L1106

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount *	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RLV327	BFB01L15	2 ul	NA	NA	NA	NA	0.915 AM ~~GAS/8260 LET/MA/FBA~~
02	328	V001L111	0.03/0.03/0.15/0.15 ul					0.3 / 1.5 ppb
03	329	2	0.05/0.05/0.25/0.25 ul					0.5 / 2.5 ppb
04	330	3	0.1/0.1/0.5/0.5 ul					1 / 5 ppb
05	331	4	0.2/0.2/1/1 ul					2 / 10 ppb
06	332	5	0.5/0.5/2.5/2.5 ul					5 / 25 ppb
07	333	6	1/1/5/5 ul					10 / 50 ppb
08	334	7	2/2/10/10 ul					20 / 100 ppb
09	335	8	3/3/15/15 ul					30 / 150 ppb
10	336	9	4/4/20/20 ul					40 / 200 ppb IS Low
11	337	10	5/5/25/25 ul					50 / 250 ppb
12	338	11	10/10/50/50 ul					100 / 250 ppb
13	339	IS/SS	25 ml					
14	340	V001L16B1	25 ml					
15	341	V001L1101	1/1/5/5 ul					5:01 PM 10/50 ppb
16	342	RINSE	25 ml					
17	343	RINSE	25 ml					
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								CN 12/13/10
30								

Instrument No.	01
INITIAL CALIBRATION REFERENCE	
DATE	12/11/10
ICAL ID	V001L11

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC GAS/8260	SV1-16-66-3 -57-1	*	
DCC CS_2	-63-1		
DCC LET/MA	-65-2		SV/25
BFB	-26-2		
IS/SURR.	-64-3		
ICV/LCS GAS/CS_2	-64-1 -72-3		
ICV/LCS 8260	-73-2		
ICV/LCS LET/MA	-62-2	0	
SOLVENT	ID		
METHANOL	IS SV1-16-72-1 SS SV1-16-72-2		
DATA FILE	10L11		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TO01	

Comments:

Analyzed By: DN

Date Disposed: CN

Disposed By: 12/13/10

2387

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/16/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A03 -045

BATCH V003B16

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	BB3357	BB03322	2L	N/A	N/A	N/A	N/A	3:06 pm
02	358	V003B161	0.5/1.0/1.0					0.5/1.0/1.0 µg/L 11:00
03	359	2	0.5/1.0/1.0					0.5/1.0/1.0 µg/L
04	360	3	1.0/1.0/1.0					1.0/1.0/1.0 µg/L
05	361	4	2.0/10/10					2.0/10/10 µg/L
06	360	5	5.0/25/25					5.0/25/25 µg/L
07	361	6	10/50/50					10/50/50 µg/L
08	362	7	20/100/100					20/100/100 µg/L
09	363	8	30/150/150					30/150/150 µg/L
10	364	9	50/200/200					50/200/200 µg/L
11	365	10	75/250/250					75/250/250 µg/L
12	366	11	100/500/500					100/500/500 µg/L
13	367	11/15	25mL					
14	368	V003B22B	↓					
15	369	V003B161	1/1/1.25					10/5/10 µg/L 11:14 pm
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								MW 2/17/11
29								
30								

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/16/11
ICAL ID	V003B16

STANDARDS

NAME	ID	Amount (uL)	Conc. (mg/L)
DCC	SV1-17-6-3	x	
DCC	↓ -4-2	↓	
DCC	SV1-16-82-1	↓	
BFB	↓ -98-2	2	
IS/SURR.	SV1-17-7-1	1	
ICV/LCS	↓ -8-1	1	
ICV/LCS	SV1-16-86-2	1	
ICV/LCS	SV1-17-8-2	1	
ICV/LCS	SV1-16-87-1	1.5	
	SV1-12-400		
SOLVENT	ID		
METHANOL	SV1-17-7-2	1	
	↓ -7-3	x	
DATA FILE	11B16		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T003	

Comments: 1 Aliquot used to sample amount

Analyzed By: MW

Date Disposed: 2/17/11

Disposed By: MW

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EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/24/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A03 -045

BATCH CV0034606

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RBB069	RBB03B 2g	2.6					8:10am
02	1+0	CV0034606	11ml					
03	1+1	V0034606						
04	1+2	C						
05	1+3	X						
06	1+4	MMF	25ml					
07	1+5	V0034606 B						
08	1+6	11BZ06 -01R		1.0	/			
09	1+7	-02R			/			
10	1+8	-03R			/			
11	1+9	-04R			/			
12	1+10	-05R			/			-10X 2ml M MB
13	1+11	-05M			/			-10X, MMB/MOTC 3:4 6ppm
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

MW 2/25/11

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/16/11
ICAL ID	V0034616

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC	SM-1+-6-3	1	
DCC	-4-1	1	
DCC	-5-3	1	
BFB	M-16-9R-2	2	10/210
IS/SURR.	M-1+-7-1	1	
ICV/LCS	-7-1	1	
ICV/LCS	-7-2	1	
ICV/LCS	M-1-16-8+-1	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11B24		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T003	

Comments: * System could not synchronize

Analyzed By: MW

Date Disposed: 2/25/11

Disposed By: MW

2336

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/2/11 ☐ 5-ml Purge ☑ 25-ml Purge

Book # A03 -045

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	188	11B03829	2.L					9.11gam
02	189	STD TEST	1ml/r.L					
03	190	CV003B160+						
04	191	V003B29L						
05	192	↓ C						-lab spike
06	193	↓ 4						
07	194	MLIE	25ML					
08	195	V003B29B						
09	196	11B243-01R		1.0				
10	197	11B246-01N						
11	198	↓ -01G						
12	199	↓ -01V						
13	200	MLIE						
14	201	11B246-01M	2.5ml	10				
15	202	↓ -01M	↓	↓				
16	203	11B281-01	25ml	1.0				
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30			MW	2/2/11				

BATCH V0032102

Instrument No.	03
INITIAL CALIBRATION REFERENCE	
DATE	2/16/11
ICAL ID	V003B16

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC	SM-17-6-3	1	
DCC	-4-1	1	
DCC	↓ -5-3	1	
BFB	M-16-91-2	2	
IS/SURR.	M-17-7-1	1	50/2
ICV/LCS	↓ -8-1	1	
ICV/LCS	M-16-96-2	1	
ICV/LCS	M-14-2-2	1	
SOLVENT	ID		
METHANOL			
DATA FILE	11B25		

Electronic Data Archival

Location	Date
HPCHEM_VOA/T003 pg. 81-89	2/2/11

Comments:

Analyzed By: MW

Date Disposed: 2/4/11

Disposed By: MW

2310

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-28-2	Acrolein & Acrylonitrile	5000ppm	500µL	250ppm
SV1-12-25-7	VOA Calibration Mix #1	↓	↓	↓
		YB	02/15/11	

Standard ID	SV1-17-06-01
Name	Ket/AA 1°
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/15/11
Exp. Date	6/29/2011 *
Prepared By	YB

Comments: * AA Expires 6/29/11.

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-4	VOC Gas Mixture	2000ppm	1.25mL	250ppm
SV1-12-25-19	Vinyl Acetate	2500ppm	1.0mL	↓
			YB 02/15/11	

Void

Standard ID	~~SV1-17-06-02~~
Name	Gases 1°
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	02/15/11
Exp. Date	04/27/11 *
Prepared By	YB

Comments: * Vinyl Acetate Solution expires @ 04/27/1

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-4	VOC Gas Mixture	2000 ppm	1.25mL	250 ppm
SV1-12-25-19	Vinyl Acetate	2500 ppm	1.0mL	↓
		YB 02/15/11		

Standard ID	SV1-17-06-03
Name	Gases 1°
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	02/15/11
Exp. Date	04/27/11 *
Prepared By	YB

Comments: * Vinyl Acetate expires @ 04/27/11.

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-26-8	Accu 1-Chlorohexane	2000ppm	250mL	50 ppm
-23-9	OPZ 2-CLEVE	↓		↓
-22-20	OGAS	2K/10Kppm		50/250
-23-6	OPZ Custom VOA mix	2K/20K/40Kppm		50/500/1000
		MW 2/15/11		

Standard ID	SV1-17-04-01
Name	8260 1°
Final Volume	10mL
Solvent/Lot #	SWIA-04-234
Prep. Date	2/15/11
Exp. Date	8/15/11
Prepared By	MW
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-12	Carbon Disulfide	5000ppm	0.5mL	250ppm
			YB 02/15/11	

Standard ID	SV1-17-04-02
Name	CS_2 1°
Final Volume	10mL
Solvent/Lot #	SWIA-04-234
Prep. Date	2/15/11
Exp. Date	8/15/11
Prepared By	YB
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-26-08	1-Chlorohexane	2000ppm	250µL	50 ppm
-23-9	2-CLEVE	2000 ppm	↓	↓
-22-20	California ~~OK~~ YB 2/15/11 O.G.A.S	2K/10K		50/250
-23-6	Custom VOA Mix	2K/20K/40K		50/500/1000
		YB 02/15/11		

Standard ID	SV1-17-04-03
Name	8260 1°
Final Volume	10mL
Solvent/Lot #	SWIA-04-234
Prep. Date	2/15/11
Exp. Date	8/15/11
Prepared By	YB
Comments:	

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-26-8	1-Chlorohexane	2000ppm	250µL	50ppm
-23-9	2-CLEVE	2000 ppm	↓	↓
-22-20	O.G.A.S	2k/10k	↓	50/250
-23-6	Custom VOA Mix	2k/20k/40k	↓	50/500/1000
			YB 02/15/11	

Standard ID	SV1-17-05-01
Name	ALB01°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/15/11
Exp. Date	8/15/11
Prepared By	YB
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-26-8	1-Chlorohexane	2000ppm	250µL	50ppm
-23-9	2-CLEVE	↓	↓	↓
-22-20	O.G.A.S	2k/10k	↓	50/250
-23-6	Custom VOA Mix	2k/20k/40k	↓	50/500/1000
			YB 02/15/11	

Standard ID	SV1-17-05-02
Name	ALB01°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/15/11
Exp. Date	8/15/11
Prepared By	YB
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-26-2	Acroxlein & Acrylonitrile	5000ppm	500µL	250ppm
SV1-12-25-7	VOA Calibration Mix#1	5000ppm	↓	↓
		YB 02/15/11		

Standard ID	SV1-17-05-03
Name	Ket/AA 1°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/15/11
Exp. Date	6/29/2011*
Prepared By	YB
Comments:	

* AA Expires 6/29/2

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

02/15/11

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-14	Custom 8260 Int. Std	2500 ppm	1mL	250 ppm
SV1-12-24-10	8260 A Surr Mix	↓	1mL	↓
		YB	02/15/11	

Standard ID	SV1-17-07-01
Name	8260 IS/SS
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	02/15/2011
Exp. Date	08/15/2011
Prepared By	YB

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-14	Custom 8260 Int. Std	2500ppm	1mL	250ppm
		YB	02/16/11	

Standard ID	SV1-17-07-02
Name	IS
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	02/16/2011
Exp. Date	08/16/2011
Prepared By	YB

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-10	8260 A Surrogate Mix	2500ppm	1mL	250ppm
		YB 02/16/11		

Standard ID	SV1-17-07-03
Name	SS
Final Volume	10mL
Solvent/Lot #	SW1A-04-234
Prep. Date	02/16/2011
Exp. Date	08/16/2011
Prepared By	YB

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-24	Vinyl Acetate	1 000ppm	2.5mL	250ppm
SV1-12-25-9	VOC Mix 6	2000 ppm	1.25mL	250ppm
			YB	02/16/11

Standard ID	SV1-17-08-01
Name	Gases 2°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/16/11
Exp. Date	8/16/11
Prepared By	YB
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-18	2-Chloroethyl Vinyl ether	2000 ppm	0.25mL	50 ppm
SV1-12-21-5	1-chlorohexane	1000ppm	0.5mL	50ppm
SV1-12-23-15	Custom Rev. 8260 Megamix	2k-40k ppm	0.25mL	50/500/1000
SV1-12-25-6	California Oxygenates Mix #1	2k-10k	0.25mL	50/250 ppm
			YB	
			02/16/11	

Standard ID	SV1-17-08-02
Name	8260 2°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/16/11
Exp. Date	8/16/11
Prepared By	YB
Comments:	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-18	2-CLEVE	2000 ppm	0.25mL	50 ppm
SV1-12-23-15	Custom. Red. 8260 Megamix	2k-40k	0.25 mL	50/500/1000
SV1-12-25-6	California Oxygenates Mix #1	2K-10K	↓	50/250
SV1-12-21-5	1-Chlorohexane	1000	0.5mL	50
	YB	02/16/11		

Standard ID	SV1-17-08-03
Name	8260 2°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/16/11
Exp. Date	8/16/11
Prepared By	YB
Comments:	

EMAX LABORATORIES, INC.

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-16-81-3	2-Butanol Int.	50,000 ppm	250 µl	1250 ppm
			CGM 1/5/11	

Standard ID	SV1-16- 82 -1
Name	2-Butanol.
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 15 Mix	2500 ppm	1.0 mL	250 ppm
			CGM 1/5/11	

Standard ID	SV1-16- 82 -2
Name	8260 15
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-1D	8260A Surr Mix	2500 ppm	1.0 mL	250 ppm
			CGM 1/5/11	

Standard ID	SV1-16- 82 -3
Name	8260 S5
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM

Comments

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	CS_2 Solution	5000 ppm	500 µL	250 ppm
			CGM 1/10/11	

Standard ID	SV1-16- 86 -1
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	7/10/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	CS_2 Solution	5000 ppm	500 µL	250 ppm
			CGM 1/10/11	

Standard ID	SV1-16- 86 -2
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	7/10/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-4	Acrolein-Acrylonitrile	5000 ppm	500 µL	250 ppm
↓-21-9	VOA Calibration Mix 1	↓	↓	↓
			CGM 1/10/11	

Standard ID	SV1-16- 86 -3
Name	Ket/AA 2° 1°
Final Volume	10 mL CGM 1/10/11
Solvent /Lot #	SW1A-02-234
Prep. Date	1/10/11
Exp. Date	3/21/11
Prepared By	CGM

Comments

STANDARDS LOG
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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-4	Acrolein-Acrylonitrile	5000 ppm	500 µL	250 ppm
↓ 24-9	VOA Calibration Mix 1	↓	↓	↓
			CGM 1/10/11	

Standard ID	SV1-16-87 -1
Name	Kat/AA 2°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	3/21/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-18	Benzyl Chloride	200 ppm	500 µL	50 ppm
			ZGM 1/11/11	

Standard ID	SV1-16-87 -2
Name	Benzyl Chloride
Final Volume	2.0 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	7/10/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-320	ACQISTD. M-001R pyrazole I.S.	20K ppm	37.5 uL	150 ppm
	MW 1/11/11			

Standard ID	SV1-16-87 -3
Name	624 I.S.
Final Volume	5.0 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/11/11
Exp. Date	7/11/11
Prepared By	MW
Comments	

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-340	CAT# 30003 Restek, VOA Tuning Cmpd	5000 ppm	100 µl	50 ppm
				AS 1/28/11

Standard ID	SV1-16- 98 -1
Name	4-BFB
Final Volume	100 mls
Solvent /Lot #	SW1A-04-234
Prep. Date	1-20-11
Exp. Date	7-20-11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-340	CAT# 30003 Restek, VOA Tuning Cmpd	5000 ppm	100 µl	50 ppm
				AS 1/28/11

Standard ID	SV1-16- 98 -2
Name	4-BFB
Final Volume	100 mls
Solvent /Lot #	SW1A-04-234
Prep. Date	1-20-11
Exp. Date	7-20-11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-16-82-3	8260 SS	250 ppm	10 µl	1.25 ppm
			DM	1/20/11

Standard ID	SV1-16- 98 -3
Name	SS (GIN)
Final Volume	2 ml
Solvent /Lot #	SW1A-04-234
Prep. Date	1-20-11
Exp. Date	4-20-11
Prepared By	DM

Comments

Book #: SV1-12

Standard ID	Name	Source	Lot #	Location	Rcvd. on	Rcvd. by	Exp. on	Catalog #
SV1-12-381	F113	Supelco, 1000 ppm	LB69814	SA06	5/14/10	AS	Sep 12	48411 (1)
SV1-12-382	Tert-amyl alcohol	Restek, 10Kppm	A074596	"	5/14/10	AS	5/15	30631 (1)
SV1-12-383	Ethyl Acetate	Supelco, 2000 ppm	LB64167	SA06	5/19/10	DH	01/12	47947 (1ml.)
SV1-12-384	Additional VOCs by Method 8260B	AccuStandard, 2000 ppm	P8100386-5E	SA06	5/19/10	SD	11/14/10	M-8260B-02 ~~M-8260B-02~~ SD
SV1-12-385	EPA GCMS Calibration Mix 1	Supelco, 100ppm	LB75863	SA06	5/19/10	SD	11/11	47506
SV1-12-386	Epichlorohydrin Solution	Ultra Scientific, 1000ppm	CG-1101	SA06	5/20/10	SD	4/11	EPA-122D
SV1-12-387	Acrolein & Acrylonitrile Mixture	Ultra Scientific,	CG-1964	SA06	6/4/10	SD	9/10	AMN-623
SV1-12-388	VOC GC Mixture	Ultra Scientific,	CG-1406	SA06	6/4/10	SD	5/13	DVM-544
SV1-12-389	1-butanol	SPEX, 1Kppm (Protocol)	P104111600 4	SA06	6/17/10	MW	4/10/13	S-6100
SV1-12-390	n-butanol	Supelco, 2Kppm	LB64151	SA06	6/17/10	MW	1/1/12	47950
SV1-12-391	TCL Volatiles Mix 1	Supelco, 2000ppm	LB70694	SA06	6/18/10	SD	10/12	4-8949
SV1-12-392	Custom 8260 Internal Std. Mix, 3-30	CPI, 2500ppm	157081	SA06	6/18/10	SD	3/10/14	Z-122455-05
SV1-12-393	8260A Surrogate Mix	Restek, 2500ug/mL	A072412	SA06	6/18/10	SD	1/2016	30240
SV1-12-394	Carbon Disulfide	CPI, 5Kppm	155331	SA06	6/21/10	AS	1/22/12	Z-020200 (5)
SV1-12-395	2-CEVE	CPI, 2Kppm	158841	↓	↓	AS	5/2/12	Z-020145-02 (5)
SV1-12-396	1-Chlorohexane	Accustd 2Kppm	2090811	SA06	7/14/10	AS	8/12/19	M-8010B-10X-10X (4)
SV1-12-397	Acrolein/acrylonitrile	accustd 5Kppm	210041235	"	"	AS	10/15/10	M-5030M-5X (2)
SV1-12-398	Vinyl acetate	CPI, 2,500 ppm	161660	SA06	7/15/10	AS	10/18/10	Z-020232-10 (2)
SV1-12-399	2-Butanol	Spex/Certiprep, 1Kppm	F1090622002	SA06	7/20/10	AS	7/13/13	S-615 (1)
SV1-12-400	2-Butanol	" 1Kppm	TI1 [illegible]	↓	↓	AS	↓	S-615 (1)

EMAX LABORATORIES, INC.

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln	2500 ppm	200 mL	250 ppm
SV1-12-24-5	Ultra VOC Gas Mix	2000 ppm	250 mL	↓
			ETL	11/12/10

Standard ID	SV1-16-66-1
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SW1A-04-138
Prep. Date	11-12-10
Exp. Date	1/27/2011 ★
Prepared By	ETL

ETL 11-12-10

Comments

★ expiration 1/27/2011

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln	2500 ppm	200 mL	250 ppm
SV1-12-24-5	Ultra VOC Gas Mix	2000 ppm	250 mL	↓
			ETL	11/12/10

Standard ID	SV1-16-66-2
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SW1A-04-138
Prep. Date	11-12-10
Exp. Date	1/27/2011
Prepared By	ETL

Comments

★ expiration 1/27/2011

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-2	CPI Vinyl Acetate soln	2500 ppm	200 mL	250 ppm
SV1-12-24-5	Ultra VOC Gas Mix	2000 ppm	250 mL	↓
			ETL	11/12/10

Standard ID	SV1-16-66-3
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SW1A-04-138
Prep. Date	11/12/10
Exp. Date	1/27/2011
Prepared By	ETL

Comments

★ expiration 1/27/2011

EMAX LABORATORIES, INC.

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Book # SV1-16

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-22-19	1-Chlorohexane	2000	250	50
-23-9	2-CEVE	2000	250	50
-22-20	O.G.A.S.	2000/10,000	250	50/250
-23-5	Custom VOA Mix	2K/20K/40K	250	50/500/1000
			CGM 10/26/10	

Standard ID	SV1-16-57 -1
Name	8260 1°
Final Volume	10 ML
Solvent /Lot #	SW1A-OU-234
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/26/10
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-22-19	1-Chlorohexane	2000	250	50
-23-1	2-CEVE	2000	250	50
-22-20	O.G.A.S.	2000/10,000	250	50/250
-23-5	Custom VOA Mix	2K/20K/40K	250	50/500/1000
			CGM 10/26/10	

Standard ID	SV1-16-57 -2
Name	8260 1°
Final Volume	10 ML
Solvent /Lot #	SW1A-OU-234
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/26/10
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	ppm Conc.	ML Aliquot	ppm Final Conc.
SV1-12-335	1-Chlorohexane	1000	500	50
-22-18	2-CEVE	2000	250	50
-86	Chloroprene	5000	100	50
-21-10	California Oxygenate Mix	2000	250	50/250
-257	Custom 8260 Mega Mix	2000	250	50/500/1000
			CGM 10/26/10	

Standard ID	SV1-16-~~8~~ 57 -3 CGM 10/26/10
Name	8260 2°
Final Volume	10 ML
Solvent /Lot #	SW1A-OU-234
Prep. Date	10/26/10
Exp. Date	4/26/~~10~~ 11 CGM 10/26/10
Prepared By	CGM

Comments

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-8	CPI, Z-020200-04 Carbon Disulfide Solution	5000 ppm	500 µl	250 ppm
				AS 11/2/10

Standard ID	SV1-16-63 -1
Name	CS_2 1°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/02/10
Exp. Date	5/02/11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-8	CPI, Z-020200-04 Carbon Disulfide Solution	5000 ppm	500 µl	250 ppm
				AS 11/2/10

Standard ID	SV1-16-63 -2
Name	CS_2 1°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/02/10
Exp. Date	5/02/11
Prepared By	AS

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	8260A Surr Mix	2500 ppm	1.0 mL	2.5 ppm
				CGM 11/3/10

Standard ID	SV1-16-63 -3
Name	SURR SPIKE
Final Volume	1000 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	11/3/10
Exp. Date	5/3/11
Prepared By	CGM

Comments

EMAX LABORATORIES, INC.

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-281	Acrolein-Acrylonitrile app. IX vol. mix	500 ug 1000 ppm	250 uL	250 ppm
↓ -363	Lot # 30233 1,1,1-trichloroethane	5000 ppm	100 uL	↓
		MW 11/10/10		

Standard ID	SV1-16- 105 -1
Name	app. IX 1°
Final Volume	2 mL
Solvent /Lot #	MeOH-04-134
Prep. Date	11/10/10
Exp. Date	3/9/11*
Prepared By	MW

Comments * exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-11	Lot # 30006 vol. cal. mix 1	5000 ppm	500 uL	250 ppm
↓ -18	Accutrap M-603-M-rx acrolein/acrylonitrile	↓	↓	↓
		MW 11/10/10		

Standard ID	SV1-16- 105 -2
Name	VTMA 1°
Final Volume	10 mL
Solvent /Lot #	MeOH-04-134
Prep. Date	11/10/10
Exp. Date	3/21/11*
Prepared By	MW

Comments * exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-11	vol. cal. mix 1	5000 ppm	500 uL	250 ppm
↓ -18	acrolein/acrylonitrile	↓	↓	↓
		MW 11/10/10		

Standard ID	SV1-16- 105 -3
Name	VTMA 1°
Final Volume	10 mL
Solvent /Lot #	MeOH-04-134
Prep. Date	11/10/10
Exp. Date	3/21/11*
Prepared By	MW

Comments * exp. date

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-376	Supelco 47394-U Vol. Mix 6 MeOH #30246	2000ppm	1.25mL	250ppm
↓ -311	7mL Ampule	↓	↓	↓

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-16	MLM10 12759-4 VOC Gas Mix	2000 ppm	1.25 mL	250 ppm
↓ -23-12	Mix 30 VOC Vinyl Acetate	↓	↓	↓
	MW 11/3/10			

Standard ID	SV1-16-64-1
Name	Gases 2°
Final Volume	10 mL
Solvent /Lot #	SWA-09-234
Prep. Date	11/3/10
Exp. Date	5/3/11
Prepared By	MW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-6	Ultra Sci VOC Gas Mix	2000 ppm	250 uL	250 ppm
SV1-12-24-2	CPI Vinyl Acetate Soln	2500 ppm	200 uL	250 ppm
			ETL	11/03/10

Standard ID	SV1-16-64-2
Name	Gases 1°
Final Volume	2 mL
Solvent /Lot #	SWA-09-234
Prep. Date	11/03/10
Exp. Date	1/27/11
Prepared By	ETL

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-14	CPI T-12257-01 1100 Component Mix	2000 ppm	1.0 mL	250 ppm
↓ -13	Mix 30 VOC Vinyl Acetate Mix	↓	↓	↓
		MW 11/5/10		

Standard ID	SV1-16-64-3
Name	1/10
Final Volume	10 mL
Solvent /Lot #	SWA-09-234
Prep. Date	11/5/10
Exp. Date	5/5/11
Prepared By	MW

Comments

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	8260 + 1,4-Dioxane (1) from 8100	2.5 ppm	1.0 mL	250 ppm
		NW 12/3/10		

Standard ID	SV1-16-72-1
Name	8100 I.S.
Final Volume	10 mL
Solvent /Lot #	MeOH-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	Mixed 8260 + 8100A Sum Mix	2.5 ppm	1.0 mL	250 ppm
		NW 12/8/10		

Standard ID	SV1-16-72-2
Name	8100 S.I.
Final Volume	10 mL
Solvent /Lot #	MeOH-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000 ppm	0.5 mL	250 ppm
			DM	12/3/10

Standard ID	SV1-16-72-3
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	MeOH-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DM

Comments

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000ppm	0.5 ml	250 ppm
			DM 12/3/10	

Standard ID	SV1-16-73 -1
Name	CS2 2°
Final Volume	10 ml
Solvent /Lot #	GWIA-04-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1000ppm	100 ml	10 ppm
-350	2-chloro- *	1k ppm	250 ml	↓
-21-10	cal. oxy. gas	2k-10k ppm	↓	10/20 ppm
-23-11	Custom Mixture	2k-20k ppm		10/20/100 ppm
		MW 11/3/10		

Standard ID	SV1-16-73 -2
Name	8100 2°
Final Volume	10 ml
Solvent /Lot #	GWIA-04-234
Prep. Date	12/3/10
Exp. Date	3/4/11 *
Prepared By	MW
Comments	* exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1k ppm	100 ml	10 ppm
-350	2-chloro- *	2k ppm	250 ml	↓
-21-10	cal. oxy. gas	2k/10k ppm	↓	10/20 ppm
-23-11	Custom Mixture	2k/20k ppm		10/20/100 ppm
		MW 11/3/10		

Standard ID	SV1-16-73 -3
Name	8100 2°
Final Volume	10 ml
Solvent /Lot #	GWIA-04-234
Prep. Date	12/3/10
Exp. Date	3/4/11 *
Prepared By	MW
Comments	* exp. date

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-18	Acrolein/Acrylonitrile	5000ppm	100uL	250ppm
SV1-12-23-11	VCA Cal-Mix	5000ppm	↓	↓

Standard ID	SV1-16- 62 -1
Name	Ket/AA 1°
Final Volume	2ml
Solvent /Lot #	SWIA-04-234
Prep. Date	10/29/10
Exp. Date	3/21/2011
Prepared By	ETL

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-13	Supelco 4-2999 TCL Vol Mix	2000ppm	1.5mL	250ppm
↓ -3	Ultra Scan-623 Acrolein/Acrylonitrile *	↓	↓	↓
		MM	11/1/10	

Standard ID	SV1-16- 62-2
Name	KETAA 2°
Final Volume	10mL
Solvent /Lot #	IWIA-04-234
Prep. Date	11/1/10
Exp. Date	1/31/11
Prepared By	MW

Comments + cap. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-14	8260 Int. Std Mix	2000ppm	100uL	20ppm
SV1-12-22-13	8260A Surr Mix	2000ppm	100uL	20ppm
			2°	4/29/11

Standard ID	SV1-16- 62 -3
Name	IC/SS
Final Volume	5mL
Solvent /Lot #	SWIA-04-234
Prep. Date	10/29/10
Exp. Date	4/29/11
Prepared By	DC

Comments

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Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	VP1 + 1242/1254-01 Custom +100	2.5 ppm	1.0 mL	250 ppm
		NW 12/3/10		

Standard ID	SV1-16-72-1
Name	+100 1.5.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-13	Mixture 30+40 +100 Custom mix	2.5 ppm	1.0 mL	250 ppm
		NW 12/3/10		

Standard ID	SV1-16-72-2
Name	+100 5.1.
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	NW

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	Carbon disulfide	5000 ppm	0.5 mL	250 ppm
			DM	12/3/10

Standard ID	SV1-16-72-3
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SMA-09-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DM

Comments

RAW DATA
VOLATILE ORGANICS
(SOIL)

LABORATORY REPORT FOR

TETRA TECH EMI

OPHA MOFFETT

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

SDG#: 11B186

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

One (1) soil sample was received on 02/17/11 for Volatile Organics by GC/MS analysis, Method 5035/8260B in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
Sample was analyzed within the prescribed holding time.

Instrument Performance and Calibration
Instrument tune check was performed prior to calibration. Instrument mass ratios were within specification. Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using secondary source (ICV). Continuing calibration (CCV) was carried on at a frequency required by the project. All project calibration requirements were satisfied. Refer to calibration summary forms for ICAL, ICV and CCV for details.

Method Blank
Method blanks were analyzed at the frequency required by the project. For this SDG, two (2) method blanks were analyzed with the samples. All results were compliant to project requirement. Refer to QC result summary form for details.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for VOF4B18L/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
Sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : T-OF4

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	VOF4B18B	1	NA	02/17/1109:52	02/17/1109:52	RBN282	RBN141	VOF4B18	Method Blank
LCS1S	VOF4B18L	1	NA	02/17/1108:58	02/17/1108:58	RBN280	RBN141	VOF4B18	Lab Control Sample (LCS)
LCD1S	VOF4B18C	1	NA	02/17/1109:25	02/17/1109:25	RBN281	RBN141	VOF4B18	LCS Duplicate
MBLK2S	VPB017SB	1	NA	02/17/1113:33	02/17/1113:33	RBN290	RBN141	VOF4B18	Method Blank
SSI-SS-001	B186-12	0.9	19.8	02/17/1114:01	02/17/1114:01	RBN291	RBN141	VOF4B18	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: 02/16/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/17/11 14:01
Sample ID: SSI-SS-D01	Date Analyzed: 02/17/11 14:01
Lab Samp ID: B186-12	Dilution Factor: 0.9
Lab File ID: RBN291	Matrix : SOIL
Ext Btch ID: VOF4B18	% Moisture : 19.8
Calib. Ref.: RBN141	Instrument ID : T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.6	1.1
1,1,2,2-TETRACHLOROETHANE	ND	5.6	1.1
1,1,2-TRICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHANE	ND	5.6	1.1
1,1-DICHLOROETHENE	ND	5.6	1.1
1,2-DICHLOROETHANE	ND	5.6	1.1
2-BUTANONE	ND	11	5.6
2-HEXANONE	ND	11	5.6
4-METHYL-2-PENTANONE	ND	11	5.6
BENZENE	ND	5.6	1.1
BROMODICHLOROMETHANE	ND	5.6	1.1
BROMOFORM	ND	5.6	2.2
CARBON DISULFIDE	ND	5.6	1.1
CARBON TETRACHLORIDE	ND	5.6	1.1
CHLOROBENZENE	ND	5.6	1.1
CHLOROETHANE	ND	5.6	2.2
CHLOROFORM	ND	5.6	1.1
CHLOROMETHANE	ND	11	2.2
CIS-1,2-DICHLOROETHENE	ND	5.6	1.1
DIBROMOCHLOROMETHANE	ND	5.6	1.1
ETHYLBENZENE	ND	5.6	1.1
M/P-XYLENES	ND	11	2.2
METHYLENE CHLORIDE	ND	11	2.2
METHYL TERT-BUTYL ETHER	ND	5.6	1.1
O-XYLENE	ND	5.6	1.1
TETRACHLOROETHENE	ND	5.6	1.1
TOLUENE	ND	5.6	1.1
TRANS-1,2-DICHLOROETHENE	ND	5.6	1.1
TRICHLOROETHENE	ND	5.6	1.1
VINYL CHLORIDE	ND	5.6	2.2
1,2,4-TRIMETHYLBENZENE	ND	5.6	1.1
1,3,5-TRIMETHYLBENZENE	ND	5.6	1.1
DICHLORODIFLUOROMETHANE	ND	11	2.2
ISOPROPYLBENZENE	ND	5.6	1.1

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	59.5	56.11	106	70-120
4-BROMOFLUOROBENZENE	62.4	56.11	111	75-120
TOLUENE-D8	58.5	56.11	104	85-120
DIBROMOFLUOROMETHANE	58.5	56.11	104	85-115

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN291.D
Acq On : 17 Feb 2011 2:01 pm
Operator : CGM
Sample : 11B186-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 23 09:07:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

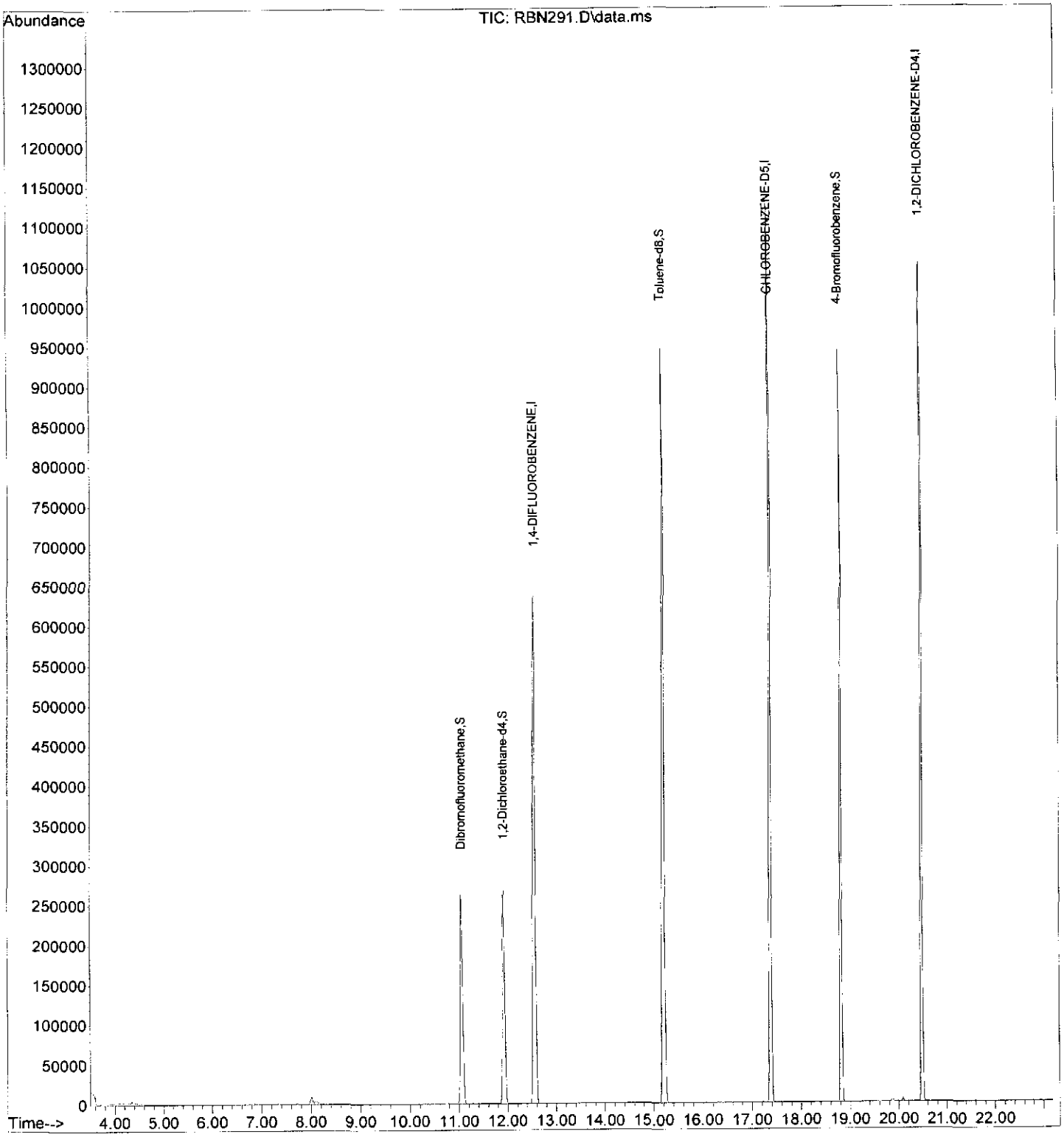
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	896192	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	823565	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	359697	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	299433	52.10	ug/l	0.01
Spiked Amount 50.000			Recovery	=	104.20%	
40) 1,2-Dichloroethane-d4	11.917	65	307907	53.00	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.00%	
56) Toluene-d8	15.207	98	973264	52.15	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.30%	
77) 4-Bromofluorobenzene	18.817	95	385362	55.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.30%	
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN291.D
Acq On : 17 Feb 2011 2:01 pm
Operator : CGM
Sample : 11B186-12
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 23 09:07:47 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



QC SUMMARIES

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client	: TETRA TECH EMI	Date Collected:	NA
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/17/11 09:52
Sample ID:	MBLK1S	Date Analyzed:	02/17/11 09:52
Lab Samp ID:	VOF4B18B	Dilution Factor:	1
Lab File ID:	RBN282	Matrix :	SOIL
Ext Btch ID:	VOF4B18	% Moisture :	NA
Calib. Ref.:	RBN141	Instrument ID :	T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
METHYLENE CHLORIDE	ND	10	2.0
METHYL TERT-BUTYL ETHER	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL CHLORIDE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	10	2.0
ISOPROPYLBENZENE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	52.6	50.00	105	70-120
4-BROMOFLUOROBENZENE	52.8	50.00	106	75-120
TOLUENE-D8	51.4	50.00	103	85-120
DIBROMOFLUOROMETHANE	51.7	50.00	103	85-115

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5035/8260B

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	VOF4B18B	VOF4B18L	VOF4B18C		
LAB FILE ID:	RBN282	RBN280	RBN281		
DATE EXTRACTED:	02/17/1109:52	02/17/1108:58	02/17/1109:25	DATE COLLECTED:	NA
DATE ANALYZED:	02/17/1109:52	02/17/1108:58	02/17/1109:25	DATE RECEIVED:	02/17/11
PREP. BATCH:	VOF4B18	VOF4B18	VOF4B18		
CALIB. REF:	RBN141	RBN141	RBN141		

ACCESSION:

PARAMETER	BLNK RSLT (ug/kg)	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
1,1,1-Trichloroethane	ND	50.0	51.8	104	50.0	52.4	105	1	70-135	30
1,1,2,2-Tetrachloroethane	ND	50.0	44.9	90	50.0	44.4	89	1	55-130	30
1,1,2-Trichloroethane	ND	50.0	46.7	93	50.0	46.8	94	0	60-125	30
1,1-Dichloroethane	ND	50.0	50.4	101	50.0	51.2	102	2	75-125	30
1,1-Dichloroethene	ND	50.0	50.5	101	50.0	51.0	102	1	65-135	30
1,2-Dichloroethane	ND	50.0	47.5	95	50.0	47.8	96	1	70-125	30
2-Butanone	ND	250	226	90	250	208	83	8	30-160	30
2-Hexanone	ND	250	226	90	250	206	82	9	45-145	30
4-Methyl-2-Pentanone	ND	250	223	89	250	207	83	7	45-145	30
Benzene	ND	50.0	42.7	85	50.0	43.4	87	2	75-125	30
Bromodichloromethane	ND	50.0	47.1	94	50.0	48.0	96	2	70-130	30
Bromoform	ND	50.0	49.0	98	50.0	49.1	98	0	55-135	30
Carbon Disulfide	ND	50.0	52.8	106	50.0	50.1	100	5	45-160	30
Carbon Tetrachloride	ND	50.0	49.4	99	50.0	50.5	101	2	65-135	30
Chlorobenzene	ND	50.0	46.5	93	50.0	47.2	94	1	75-125	30
Chloroethane	ND	50.0	52.2	104	50.0	50.4	101	4	40-155	30
Chloroform	ND	50.0	51.9	104	50.0	52.7	105	1	70-125	30
Chloromethane	ND	50.0	43.2	86	50.0	44.1	88	2	50-130	30
cis-1,2-Dichloroethene	ND	50.0	46.7	93	50.0	47.6	95	2	65-130	30
Dibromochloromethane	ND	50.0	48.9	98	50.0	49.0	98	0	65-130	30
Ethylbenzene	ND	50.0	45.9	92	50.0	46.3	93	1	75-125	30
m/p-Xylenes	ND	100	90.4	90	100	92.5	92	2	80-125	30
Methylene Chloride	ND	50.0	46.0	92	50.0	46.4	93	1	55-140	30
Methyl Tert-Butyl Ether	ND	50.0	48.2	96	50.0	47.4	95	2	65-125	30
o-Xylene	ND	50.0	45.1	90	50.0	45.7	91	1	75-125	30
Tetrachloroethene	ND	50.0	47.0	94	50.0	48.4	97	3	65-140	30
Toluene	ND	50.0	42.4	85	50.0	43.4	87	2	70-125	30
Trans-1,2-Dichloroethene	ND	50.0	47.0	94	50.0	47.7	95	1	65-135	50
Trichloroethene	ND	50.0	46.0	92	50.0	46.6	93	1	75-125	30
Vinyl Chloride	ND	50.0	54.7	109	50.0	53.0	106	3	60-125	30
1,2,4-Trimethylbenzene	ND	50.0	46.4	93	50.0	47.6	95	3	65-135	30
1,3,5-Trimethylbenzene	ND	50.0	44.8	90	50.0	45.8	92	2	65-133	30
Dichlorodifluoromethane	ND	50.0	49.8	100	50.0	48.2	96	3	35-135	30
Isopropylbenzene	ND	50.0	46.8	94	50.0	47.7	95	2	75-130	30

SURROGATE PARAMETER	SPIKE AMT (ug/kg)	BS RSLT (ug/kg)	BS % REC	SPIKE AMT (ug/kg)	BSD RSLT (ug/kg)	BSD % REC	QC LIMIT (%)
1,2-Dichloroethane-d4	50.0	53.0	106	50.0	52.3	105	70-120
4-Bromofluorobenzene	50.0	53.0	106	50.0	52.7	105	75-120
Toluene-d8	50.0	51.1	102	50.0	51.4	103	85-120
Dibromofluoromethane	50.0	53.5	107	50.0	53.0	106	85-115

METHOD 5035/8260B
VOLATILE ORGANICS BY GC/MS

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/17/11 13:33
Sample ID: MBLK2S	Date Analyzed: 02/17/11 13:33
Lab Samp ID: VPB017SB	Dilution Factor: 1
Lab File ID: RBN290	Matrix : SOIL
Ext Btch ID: VOF4B18	% Moisture : NA
Calib. Ref.: RBN141	Instrument ID : T-OF4

PARAMETERS	RESULTS (ug/kg)	RL (ug/kg)	MDL (ug/kg)
1,1,1-TRICHLOROETHANE	ND	5.0	1.0
1,1,2,2-TETRACHLOROETHANE	ND	5.0	1.0
1,1,2-TRICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHANE	ND	5.0	1.0
1,1-DICHLOROETHENE	ND	5.0	1.0
1,2-DICHLOROETHANE	ND	5.0	1.0
2-BUTANONE	ND	10	5.0
2-HEXANONE	ND	10	5.0
4-METHYL-2-PENTANONE	ND	10	5.0
BENZENE	ND	5.0	1.0
BROMODICHLOROMETHANE	ND	5.0	1.0
BROMOFORM	ND	5.0	2.0
CARBON DISULFIDE	ND	5.0	1.0
CARBON TETRACHLORIDE	ND	5.0	1.0
CHLOROBENZENE	ND	5.0	1.0
CHLOROETHANE	ND	5.0	2.0
CHLOROFORM	ND	5.0	1.0
CHLOROMETHANE	ND	10	2.0
CIS-1,2-DICHLOROETHENE	ND	5.0	1.0
DIBROMOCHLOROMETHANE	ND	5.0	1.0
ETHYLBENZENE	ND	5.0	1.0
M/P-XYLENES	ND	10	2.0
METHYLENE CHLORIDE	ND	10	2.0
METHYL TERT-BUTYL ETHER	ND	5.0	1.0
O-XYLENE	ND	5.0	1.0
TETRACHLOROETHENE	ND	5.0	1.0
TOLUENE	ND	5.0	1.0
TRANS-1,2-DICHLOROETHENE	ND	5.0	1.0
TRICHLOROETHENE	ND	5.0	1.0
VINYL CHLORIDE	ND	5.0	2.0
1,2,4-TRIMETHYLBENZENE	ND	5.0	1.0
1,3,5-TRIMETHYLBENZENE	ND	5.0	1.0
DICHLORODIFLUOROMETHANE	ND	10	2.0
ISOPROPYLBENZENE	ND	5.0	1.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
1,2-DICHLOROETHANE-D4	55.1	50.00	110	70-120
4-BROMOFLUOROBENZENE	52.7	50.00	105	75-120
TOLUENE-D8	51.2	50.00	102	85-120
DIBROMOFLUOROMETHANE	53.0	50.00	106	85-115

QC DATA

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN282.D
Acq On : 17 Feb 2011 9:52 am
Operator : CGM
Sample : VOF4B18B 5.0g
Misc : DF=1.0 MB
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 08:29:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	798205	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	741969	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	351395	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	264864	51.74	ug/l	0.01
Spiked Amount 50.000			Recovery =		103.48%	
40) 1,2-Dichloroethane-d4	11.917	65	271962	52.56	ug/l	0.00
Spiked Amount 50.000			Recovery =		105.12%	
56) Toluene-d8	15.207	98	864348	51.41	ug/l	0.00
Spiked Amount 50.000			Recovery =		102.82%	
77) 4-Bromofluorobenzene	18.817	95	357109	52.79	ug/l	0.00
Spiked Amount 50.000			Recovery =		105.58%	

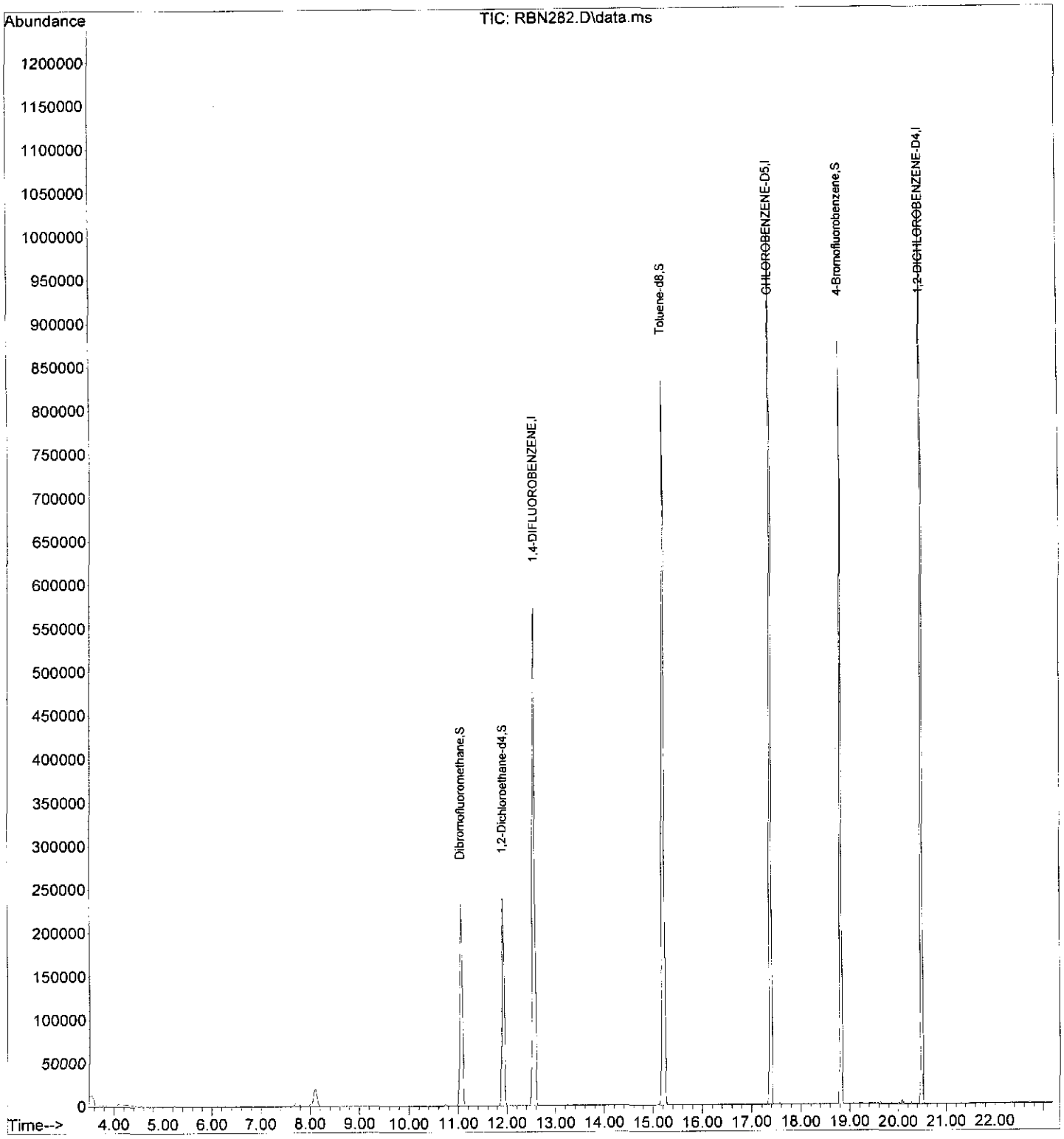
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN282.D
Acq On : 17 Feb 2011 9:52 am
Operator : CGM
Sample : VOF4B18B 5.0g
Misc : DF=1.0 MB
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 08:29:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN280.D
Acq On : 17 Feb 2011 8:58 am
Operator : CGM
Sample : VOF4B18L
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 17 09:17:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	830952	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	785896	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	374975	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	285037	53.49	ug/l	0.01
Spiked Amount 50.000			Recovery =		106.98%	
40) 1,2-Dichloroethane-d4	11.917	65	285704	53.04	ug/l	0.00
Spiked Amount 50.000			Recovery =		106.08%	
56) Toluene-d8	15.207	98	910767	51.14	ug/l	0.00
Spiked Amount 50.000			Recovery =		102.28%	
77) 4-Bromofluorobenzene	18.817	95	382701	53.01	ug/l	0.00
Spiked Amount 50.000			Recovery =		106.02%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	251045	49.77	ug/l	100
3) Chloromethane	4.092	50	227878	43.25	ug/l	100
4) Vinyl chloride	4.323	62	234626	54.75	ug/l	100
5) Bromomethane	5.226	94	198174	43.93	ug/l	100
6) Chloroethane	5.380	64	224483	52.20	ug/L	99
7) Dichlorofluoromethane	5.446	67	484464	44.98	ug/L	100
8) Trichlorofluoromethane	5.897	101	495396	62.65	ug/l	99
9) Acrolein	6.711	56	151055	246.30	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	200226	59.63	ug/l	99
11) Acetone	6.821	43	308975	224.00	ug/l	100
12) 1,1-Dichloroethene	7.097	61	426693	50.50	ug/L	100
13) tert-Butyl alcohol	7.207	59	95270	193.84	ug/L	99
14) Acetonitrile	7.339	41	259602	449.55	ug/L	100
16) Iodomethane	7.702	142	338956	47.49	ug/L	99
17) Allyl chloride	7.790	76	120955	53.53	ug/L	99
18) Methylene chloride	8.010	49	442444	45.97	ug/l	99
19) Carbon disulfide	8.076	76	947196	52.82	ug/L	100
20) Acrylonitrile	8.219	53	472059	231.19	ug/l	99
21) tert-Butyl methyl ethe...	8.263	73	558996	48.16	ug/L	98
22) trans-1,2-Dichloroethene	8.560	61	424304	47.00	ug/l	100
23) Isopropyl ether (DIPE)	9.067	45	1088077	47.10	ug/l	100
24) Vinyl acetate	9.287	43	649762	67.86	ug/l	100
25) 1,1-Dichloroethane	9.320	63	520854	50.40	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	911700	47.77	ug/l	100
27) 2-Butanone	10.024	43	546945	225.65	ug/l	100
28) Propionitrile	10.167	54	347031	466.61	ug/L	99
29) 2,2-Dichloropropane	10.321	77	345149	50.18	ug/L	100
30) cis-1,2-Dichloroethene	10.409	96	247332	46.71	ug/L	98
31) Isobutyl alcohol	10.519	43	187634	847.34	ug/L	93
32) Methacrylonitrile	10.519	52	435240	493.41	ug/L	99
33) Chloroform	10.673	83	441022	51.91	ug/l	99
35) Bromochloromethane	10.981	49	284576	48.36	ug/l	99
38) 1,1,1-Trichloroethane	11.389	97	381245	51.84	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	137413	50.47	ug/l	96
42) 1,1-Dichloropropene	11.653	110	120615	46.99	ug/L	99
43) Carbon tetrachloride	11.840	119	352989	49.40	ug/l	100
44) 1,2-Dichloroethane	12.082	62	350424	47.47	ug/l	99
45) Benzene	12.137	78	847892	42.68	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN280.D
Acq On : 17 Feb 2011 8:58 am
Operator : CGM
Sample : VOF4B18L
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 17 09:17:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

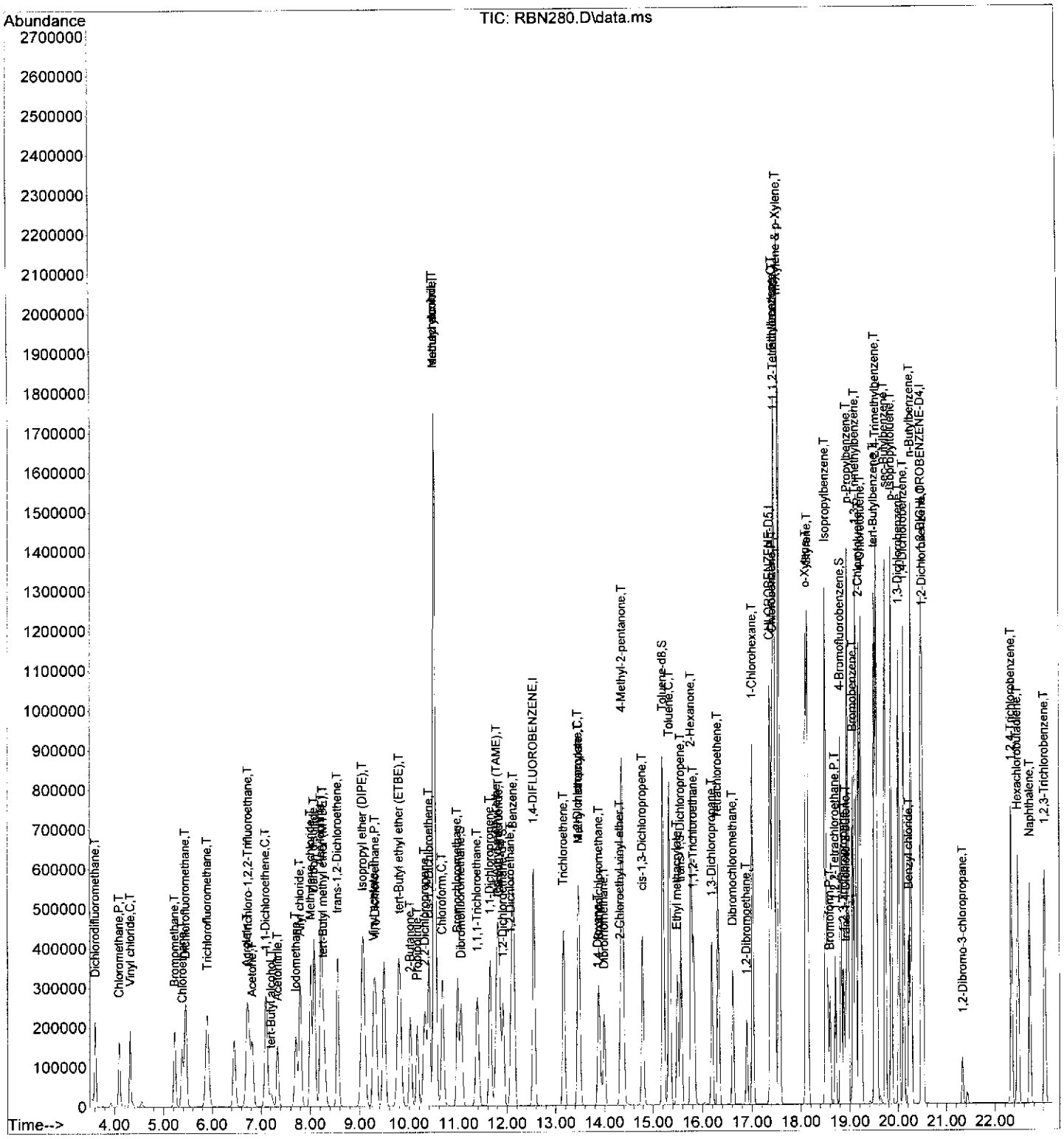
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	267750	45.95 ug/l	100
47) 1,2-Dichloropropane	13.469	63	300764	46.20 ug/L	96
48) Methyl methacrylate	13.480	69	124944	47.76 ug/L	96
50) 1,4-Dioxane	13.865	88	20645	593.78 ug/L	94
51) Bromodichloromethane	13.887	83	319479	47.07 ug/l	100
52) Dibromomethane	13.997	93	139369	47.63 ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	137180	44.20 ug/l	100
54) 4-Methyl-2-pentanone	14.371	43	1354851	223.06 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	364336	46.94 ug/l	100
57) Toluene	15.339	91	928243	42.43 ug/L	100
58) Ethyl methacrylate	15.494	69	243176	47.13 ug/L	100
59) trans-1,3-Dichloropropene	15.571	75	322676	48.43 ug/l	99
60) 2-Hexanone	15.780	43	871675	225.53 ug/l	100
61) 1,1,2-Trichloroethane	15.824	97	190600	46.70 ug/l	99
62) 1,3-Dichloropropane	16.198	76	311478	45.35 ug/l	100
63) Tetrachloroethene	16.319	164	205420	47.05 ug/l	99
64) Dibromochloromethane	16.616	129	255384	48.89 ug/l	100
65) 1,2-Dibromoethane	16.891	107	198744	45.29 ug/l	100
66) 1-Chlorohexane	17.023	91	348262	47.87 ug/l	98
67) Chlorobenzene	17.430	112	683708	46.50 ug/l	99
68) 1,1,1,2-Tetrachloroethane	17.474	131	249512	47.74 ug/l	99
69) Ethylbenzene	17.463	91	1110699	45.86 ug/l	99
70) m-Xylene & p-Xylene	17.563	91	1698441	90.39 ug/l	100
71) o-Xylene	18.113	91	875812	45.10 ug/l	99
72) Styrene	18.146	104	721644	47.79 ug/l	100
74) Isopropylbenzene	18.509	105	1160290	46.82 ug/l	100
75) Bromoform	18.597	173	157416	49.01 ug/l	100
76) 1,1,2,2-Tetrachloroethane	18.707	83	235726	44.93 ug/l	99
78) 1,2,3-Trichloropropane	18.883	110	70566	46.95 ug/l	99
79) trans-1,4-Dichloro-2-b...	18.927	53	87618	44.41 ug/l	99
80) n-Propylbenzene	18.960	91	1355143	46.01 ug/l	100
81) Bromobenzene	19.070	156	273009	45.58 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	970195	44.83 ug/l	100
83) 2-Chlorotoluene	19.191	91	838847	43.98 ug/l	100
84) 4-Chlorotoluene	19.235	91	740128	45.91 ug/l	100
85) tert-Butylbenzene	19.510	134	196849	46.22 ug/l	99
86) 1,2,4-Trimethylbenzene	19.554	105	994510	46.40 ug/l	100
87) sec-Butylbenzene	19.731	105	1305727	46.42 ug/l	100
88) p-Isopropyltoluene	19.863	119	1068073	47.53 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	546983	45.75 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	541937	46.05 ug/l	100
91) Benzyl chloride	20.226	91	340169	44.39 ug/l	99
92) n-Butylbenzene	20.270	91	1003399	49.60 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	498431	45.42 ug/l	99
94) 1,2-Dibromo-3-chloropr...	21.337	157	45457	47.06 ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	318004	52.07 ug/l	99
96) Hexachlorobutadiene	22.471	225	175826	49.12 ug/l	99
97) Naphthalene	22.724	128	632721	43.92 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	277774	49.74 ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN280.D
Acq On : 17 Feb 2011 8:58 am
Operator : CGM
Sample : VOF4B18L
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 17 09:17:51 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN281.D
Acq On : 17 Feb 2011 9:25 am
Operator : CGM
Sample : VOF4B18C
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 17 09:45:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	825579	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	774069	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	366765	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	280500	52.98	ug/l	0.01
Spiked Amount 50.000			Recovery =		105.96%	
40) 1,2-Dichloroethane-d4	11.917	65	279740	52.27	ug/l	0.00
Spiked Amount 50.000			Recovery =		104.54%	
56) Toluene-d8	15.207	98	901336	51.39	ug/l	0.00
Spiked Amount 50.000			Recovery =		102.78%	
77) 4-Bromofluorobenzene	18.817	95	371816	52.66	ug/l	0.00
Spiked Amount 50.000			Recovery =		105.32%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	241567	48.20	ug/l	100
3) Chloromethane	4.092	50	230668	44.06	ug/l	100
4) Vinyl chloride	4.323	62	225861	53.05	ug/l	100
5) Bromomethane	5.226	94	191279	42.68	ug/l	100
6) Chloroethane	5.380	64	215269	50.39	ug/L	99
7) Dichlorofluoromethane	5.457	67	487083	45.51	ug/L	100
8) Trichlorofluoromethane	5.897	101	471577	60.02	ug/l	100
9) Acrolein	6.711	56	137814	226.17	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	199830	59.90	ug/l	99
11) Acetone	6.821	43	282162	205.57	ug/l	100
12) 1,1-Dichloroethene	7.097	61	428461	51.04	ug/L	99
13) tert-Butyl alcohol	7.196	59	89260	182.79	ug/L	99
14) Acetonitrile	7.339	41	249352	434.61	ug/L	99
16) Iodomethane	7.702	142	346276	48.80	ug/L	100
17) Allyl chloride	7.790	76	121464	54.10	ug/L	100
18) Methylene chloride	8.010	49	443912	46.42	ug/l	99
19) Carbon disulfide	8.076	76	892058	50.07	ug/L	99
20) Acrylonitrile	8.219	53	437289	215.55	ug/l	99
21) tert-Butyl methyl ethe...	8.263	73	546382	47.38	ug/L	98
22) trans-1,2-Dichloroethene	8.560	61	427613	47.68	ug/l	100
23) Isopropyl ether (DIPE)	9.067	45	1092330	47.59	ug/l	100
24) Vinyl acetate	9.287	43	605928	63.70	ug/l	100
25) 1,1-Dichloroethane	9.331	63	525567	51.18	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	907796	47.88	ug/l	99
27) 2-Butanone	10.024	43	500301	207.75	ug/l	100
28) Propionitrile	10.167	54	332215	449.59	ug/L	100
29) 2,2-Dichloropropane	10.321	77	348158	50.95	ug/L	100
30) cis-1,2-Dichloroethene	10.409	96	250562	47.63	ug/L	98
31) Isobutyl alcohol	10.519	43	173817	790.05	ug/L	92
32) Methacrylonitrile	10.519	52	420874	480.23	ug/L	98
33) Chloroform	10.673	83	444753	52.69	ug/l	100
35) Bromochloromethane	10.981	49	283695	48.52	ug/l	99
38) 1,1,1-Trichloroethane	11.389	97	382536	52.36	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	133764	49.44	ug/l	98
42) 1,1-Dichloropropene	11.653	110	121802	48.18	ug/L	100
43) Carbon tetrachloride	11.840	119	355277	50.48	ug/l	100
44) 1,2-Dichloroethane	12.082	62	347303	47.77	ug/l	100
45) Benzene	12.137	78	849940	43.43	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN281.D
Acq On : 17 Feb 2011 9:25 am
Operator : CGM
Sample : VOF4B18C
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 17 09:45:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

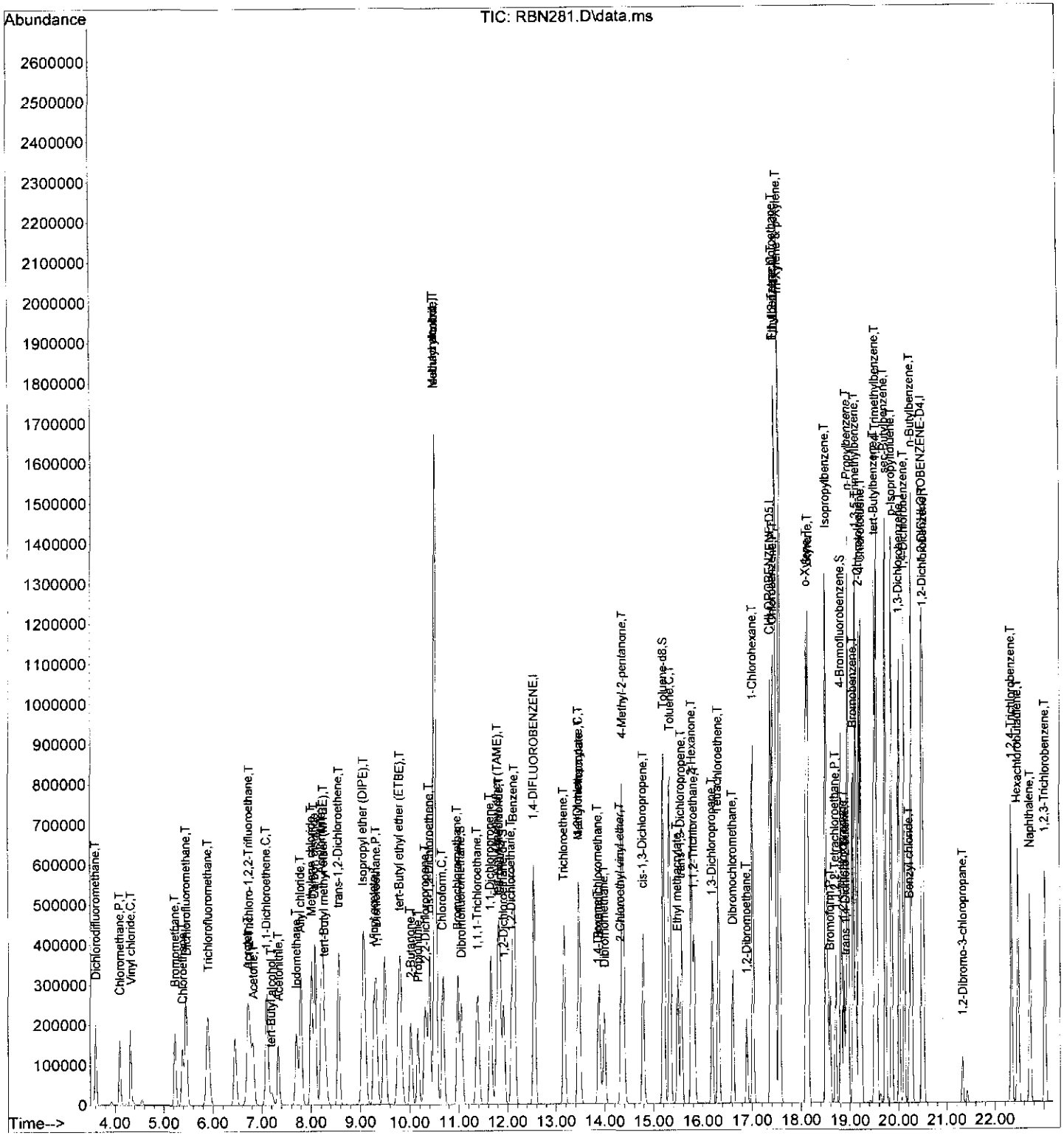
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	267689	46.65 ug/l	99
47) 1,2-Dichloropropane	13.469	63	302216	47.13 ug/L	98
48) Methyl methacrylate	13.480	69	121913	47.32 ug/L	97
50) 1,4-Dioxane	13.865	88	17571	513.09 ug/L	99
51) Bromodichloromethane	13.876	83	321176	48.04 ug/l	99
52) Dibromomethane	13.997	93	137198	47.60 ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	133143	43.56 ug/l	99
54) 4-Methyl-2-pentanone	14.371	43	1239535	207.19 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	365133	47.76 ug/l	100
57) Toluene	15.339	91	935287	43.41 ug/L	99
58) Ethyl methacrylate	15.494	69	237746	46.78 ug/L	100
59) trans-1,3-Dichloropropene	15.571	75	318147	48.48 ug/l	99
60) 2-Hexanone	15.780	43	783165	205.73 ug/l	100
61) 1,1,2-Trichloroethane	15.824	97	188227	46.83 ug/l	98
62) 1,3-Dichloropropane	16.198	76	307757	45.49 ug/l	99
63) Tetrachloroethene	16.319	164	207972	48.36 ug/l	100
64) Dibromochloromethane	16.616	129	251917	48.97 ug/l	99
65) 1,2-Dibromoethane	16.891	107	193818	44.84 ug/l	99
66) 1-Chlorohexane	17.023	91	349908	48.84 ug/l	99
67) Chlorobenzene	17.430	112	683310	47.19 ug/l	100
68) 1,1,1,2-Tetrachloroethane	17.463	131	249057	48.39 ug/l	99
69) Ethylbenzene	17.463	91	1103998	46.28 ug/l	100
70) m-Xylene & p-Xylene	17.563	91	1711727	92.49 ug/l	100
71) o-Xylene	18.113	91	873857	45.69 ug/l	99
72) Styrene	18.146	104	720469	48.44 ug/l	100
74) Isopropylbenzene	18.509	105	1156510	47.71 ug/l	100
75) Bromoform	18.597	173	154373	49.14 ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	227915	44.41 ug/l	98
78) 1,2,3-Trichloropropane	18.872	110	67618	45.99 ug/l	99
79) trans-1,4-Dichloro-2-b...	18.916	53	85427	44.27 ug/l	99
80) n-Propylbenzene	18.960	91	1356453	47.09 ug/l	100
81) Bromobenzene	19.070	156	275567	47.04 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	970215	45.83 ug/l	100
83) 2-Chlorotoluene	19.191	91	855659	45.86 ug/l	99
84) 4-Chlorotoluene	19.235	91	721756	45.77 ug/l	99
85) tert-Butylbenzene	19.510	134	195964	47.04 ug/l	98
86) 1,2,4-Trimethylbenzene	19.554	105	998552	47.63 ug/l	99
87) sec-Butylbenzene	19.731	105	1304193	47.41 ug/l	100
88) p-Isopropyltoluene	19.863	119	1067057	48.55 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	543711	46.50 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	543428	47.21 ug/l	100
91) Benzyl chloride	20.226	91	335485	44.74 ug/l	99
92) n-Butylbenzene	20.270	91	1001814	50.63 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	497590	46.35 ug/l	99
94) 1,2-Dibromo-3-chloropr...	21.337	157	42922	45.43 ug/l	97
95) 1,2,4-Trichlorobenzene	22.339	180	315765	52.87 ug/l	100
96) Hexachlorobutadiene	22.471	225	175990	50.26 ug/l	98
97) Naphthalene	22.724	128	600260	42.64 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	273806	50.13 ug/l	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN281.D
Acq On : 17 Feb 2011 9:25 am
Operator : CGM
Sample : VOF4B18C
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 17 09:45:06 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN290.D
Acq On : 17 Feb 2011 1:33 pm
Operator : CGM
Sample : VPB017SB
Misc : B186 PREP BLANK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 09:05:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

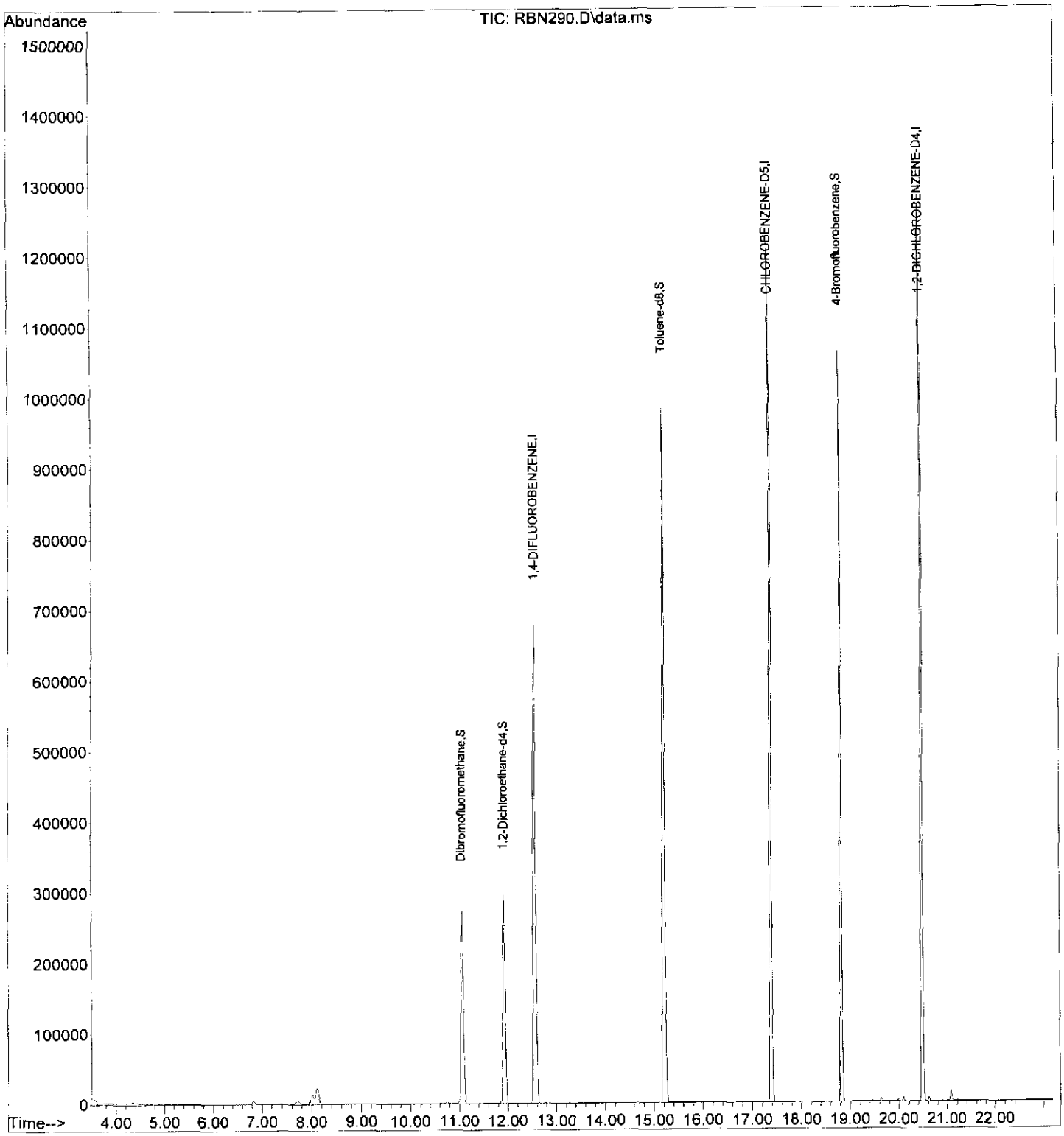
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	938076	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	886899	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	422358	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	318742	52.98	ug/l	0.01
Spiked Amount 50.000			Recovery	=	105.96%	
40) 1,2-Dichloroethane-d4	11.917	65	335261	55.14	ug/l	0.00
Spiked Amount 50.000			Recovery	=	110.28%	
56) Toluene-d8	15.207	98	1029379	51.22	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.44%	
77) 4-Bromofluorobenzene	18.817	95	428415	52.69	ug/l	0.00
Spiked Amount 50.000			Recovery	=	105.38%	
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN290.D
Acq On : 17 Feb 2011 1:33 pm
Operator : CGM
Sample : VPB017SB
Misc : B186 PREP BLANK
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 23 09:05:18 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



INITIAL CALIBRATIONS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN135
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/09/11
BFB Injection Time : 09:53
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.39
75	30.0 - 60.0% of mass 95	46.55
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.61
173	Less than 2.0% of mass 174	0.67(0.9)1
174	Greater than 50% of mass 95	75.68
175	5.0 - 9.0% of mass 174	5.77(7.6)1
176	95.0 - 101.0% of mass 174	73.36(96.9)1
177	5.0 - 9.0% of mass 176	4.80(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD01	VOF4B091	RBN136	02/09/11	10:21
2	VSTD02	VOF4B092	RBN137	02/09/11	10:48
3	VSTDD4	VOF4B093	RBN138	02/09/11	11:16
4	VSTD010	VOF4B094	RBN139	02/09/11	11:44
5	VSTD050	VOF4B096	RBN141	02/09/11	12:47
6	VSTD100	VOF4B097	RBN142	02/09/11	13:15
7	VSTD200	VOF4B098	RBN143	02/09/11	13:43
8	VSTD300	VOF4B099	RBN144	02/09/11	14:11
9	VSTD500	VOF4B0910	RBN145	02/09/11	14:39

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN150
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/10/11
BFB Injection Time : 09:39
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.20
75	30.0 - 60.0% of mass 95	46.34
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.73
173	Less than 2.0% of mass 174	0.68(0.9)1
174	Greater than 50% of mass 95	76.87
175	5.0 - 9.0% of mass 174	5.46(7.1)1
176	95.0 - 101.0% of mass 174	73.57(95.7)1
177	5.0 - 9.0% of mass 176	4.83(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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	IVOF4B092	RBN151	02/10/11	10:07

FORM V VOA OLM02.0

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR

Instrument ID :F4
Beginning DateTime :02/09/11 10:21
Spike Units :PPB
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09

M	IDX	Parameters	1 10:21 RBN136	2 10:48 RBN137	4 11:16 RBN138	10 11:44 RBN139	50 12:47 RBN141	100 13:15 RBN142	200 13:43 RBN143	300 14:11 RBN144	500 14:39 RBN145	Av_RRF	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	12.5551
	2	Dichlorodifluoromethane	0.300	0.305	0.314	0.322	0.295	0.313	0.298	0.301	0.284	0.303	3.73	3.6079
	3	Chloromethane	0.330	0.312	0.309	0.318	0.275	0.310	0.329	0.339	0.331	0.317	5.96	4.0921
	4	Vinyl chloride	0.242	0.264	0.275	0.290	0.267	0.274	0.249	0.239	0.220	0.258	8.47	4.3171
	5	Bromomethane	0.299	0.290	0.284	0.276	0.249	0.257	0.260	0.267	0.259	0.271	6.28	5.2195
	6	Chloroethane	0.219	0.237	0.251	0.271	0.266	0.282	0.272	0.272	0.259	0.259	7.66	5.3736
	7	Dichlorofluoromethane	0.637	0.657	0.655	0.632	0.649	0.638	0.662	0.657	0.647	0.648	1.61	5.4458
	8	Trichlorofluoromethane	0.453	0.462	0.482	0.496	0.464	0.499	0.481	0.486	0.458	0.476	3.51	5.8897
5	9	Acrolein	0.035	0.029	0.036	0.038	0.036	0.039	0.041	0.039	0.039	0.037	9.92	6.7163
	10	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.197	0.204	0.204	0.205	0.201	0.200	0.204	0.206	0.199	0.202	1.59	6.7407
5	11	Acetone	0.158	0.107	0.099	0.088	0.076	0.082	0.086	0.080	0.082	0.095	26.72	6.8239
	12	1,1-Dichloroethene	0.507	0.519	0.497	0.497	0.510	0.500	0.518	0.518	0.509	0.508	1.78	7.0990
5	13	tert-Butyl alcohol	------	------	0.031	0.030	0.026	0.028	0.032	0.030	0.031	0.030	7.20	7.2035
10	14	Acetonitrile	0.035	0.035	0.035	0.034	0.033	0.033	0.037	0.035	0.035	0.035	3.59	7.3362
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	0.123	0.168	0.202	0.284	0.414	0.430	0.453	0.444	0.436	0.328	40.84	7.7031
	17	Allyl chloride	------	0.122	0.133	0.133	0.140	0.140	0.143	0.140	0.137	0.136	4.93	7.7899
	18	Methylene chloride	------	0.721	0.639	0.566	0.551	0.537	0.553	0.540	0.526	0.579	11.61	7.9990
	19	Carbon disulfide	1.393	1.032	1.042	1.018	0.997	1.062	1.042	1.046	------	1.079	11.90	8.0760
5	20	Acrylonitrile	0.125	0.109	0.127	0.127	0.117	0.125	0.131	0.122	0.123	0.123	5.38	8.2179
	21	tert-Butyl methyl ether (MTBE)	0.711	0.692	0.701	0.667	0.676	0.690	0.735	0.706	0.708	0.698	2.87	8.2533
	22	trans-1,2-Dichloroethene	0.545	0.544	0.537	0.536	0.549	0.538	0.554	0.549	0.538	0.543	1.20	8.5517
	23	Isopropyl ether (DIPE)	1.373	1.402	1.381	1.351	1.395	1.386	1.447	1.403	1.372	1.390	1.95	9.0689
	24	Vinyl acetate	------	0.471	0.514	0.558	0.575	0.630	0.638	0.623	0.601	0.576	10.29	9.2797
	25	1,1-Dichloroethane	0.622	0.628	0.618	0.609	0.630	0.618	0.633	0.627	0.612	0.622	1.34	9.3208
	26	tert-Butyl ethyl ether (ETBE)	1.128	1.134	1.144	1.092	1.135	1.144	1.211	1.177	1.172	1.148	2.99	9.8002
5	27	2-Butanone	0.157	0.134	0.148	0.147	0.133	0.146	0.155	0.143	0.149	0.146	5.69	10.0264
10	28	Propionitrile	0.044	0.045	0.046	0.043	0.042	0.044	0.048	0.045	0.046	0.045	3.88	10.1670
	29	2,2-Dichloropropane	0.393	0.387	0.395	0.409	0.415	0.423	0.435	0.438	0.429	0.414	4.62	10.3198
	30	cis-1,2-Dichloroethene	0.315	0.320	0.314	0.312	0.324	0.317	0.328	0.322	0.315	0.319	1.61	10.4018
20	31	Isobutyl alcohol	0.013	0.013	0.013	0.013	0.013	0.014	0.015	0.013	0.012	0.013	5.08	10.5241
10	32	Methacrylonitrile	0.064	0.054	0.055	0.053	0.051	0.051	0.054	0.049	0.047	0.053	8.70	10.5192
	33	Chloroform	0.524	0.503	0.515	0.504	0.512	0.504	0.521	0.513	0.505	0.511	1.52	10.6744
	34	tert-Amyl alcohol (TAA)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Bromochloromethane	0.337	0.362	0.360	0.359	0.358	0.350	0.362	0.352	0.345	0.354	2.47	10.9802
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	Dibromofluoromethane	0.245	0.286	0.321	0.328	0.334	0.356	0.349	0.347	------	0.321	11.77	11.0571
	38	1,1,1-Trichloroethane	0.418	0.429	0.436	0.437	0.450	0.445	0.458	0.459	0.450	0.443	3.10	11.3824
	39	tert-Amyl methyl ether (TAME)	0.129	0.161	0.160	0.160	0.165	0.170	0.182	0.175	0.174	0.164	9.25	11.7970
	40	1,2-Dichloroethane-d4	0.258	0.311	0.325	0.334	0.328	0.351	0.346	0.340	------	0.324	9.09	11.9168
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.3766
	42	1,1-Dichloropropene	0.142	0.156	0.157	0.166	0.170	0.168	0.171	0.172	0.167	0.163	6.00	11.6515
	43	Carbon tetrachloride	0.434	0.430	0.437	0.453	0.462	0.461	0.471	0.477	0.467	0.455	3.80	11.8410
	44	1,2-Dichloroethane	0.474	0.469	0.470	0.465	0.467	0.463	0.480	0.469	0.469	0.470	1.08	12.0807
	45	Benzene	1.404	1.317	1.282	1.240	1.243	1.215	1.240	1.231	1.204	1.264	4.96	12.1296
	46	Trichloroethene	0.375	0.369	0.372	0.372	0.374	0.366	0.374	0.371	0.363	0.371	1.09	13.1665
	47	1,2-Dichloropropane	0.410	0.415	0.416	0.403	0.419	0.412	0.424	0.419	0.409	0.414	1.53	13.4673
	48	Methyl methacrylate	0.157	0.155	0.162	0.156	0.162	0.168	0.184	0.175	0.179	0.166	6.42	13.4844
	49	Methylcylohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000

Sw
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20	50	1,4-Dioxane	------	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	12.42	13.8647
	51	Bromodichloromethane	0.393	0.425	0.420	0.410	0.437	0.436	0.458	0.455	0.452	0.432	5.07	13.8782
	52	Dibromomethane	0.158	0.182	0.189	0.188	0.187	0.189	0.198	0.192	0.191	0.186	6.03	13.9944
	53	2-Chloroethyl vinyl ether	------	0.181	0.180	0.186	0.194	0.201	0.217	0.208	0.212	0.197	7.14	14.3283
5	54	4-Methyl-2-pentanone	0.398	0.360	0.398	0.396	0.363	0.394	0.412	0.381	0.375	0.386	4.58	14.3710
	55	cis-1,3-Dichloropropene	0.446	0.470	0.472	0.473	0.505	0.507	0.529	0.524	0.519	0.494	5.91	14.7891
	56	Toluene-d8	0.918	1.089	1.097	1.163	1.168	1.245	1.195	1.190	------	1.133	8.91	15.2074
	57	Toluene	1.627	1.497	1.394	1.351	1.356	1.324	1.352	1.330	1.296	1.392	7.54	15.3382
	58	Ethyl methacrylate	0.291	0.279	0.297	0.310	0.330	0.344	0.375	0.362	0.367	0.328	10.85	15.4935
	59	trans-1,3-Dichloropropene	0.388	0.389	0.397	0.397	0.433	0.438	0.463	0.455	0.455	0.424	7.31	15.5705
5	60	2-Hexanone	0.233	0.218	0.249	0.254	0.232	0.257	0.271	0.251	0.246	0.246	6.42	15.7784
	61	1,1,2-Trichloroethane	0.253	0.260	0.266	0.263	0.256	0.256	0.268	0.258	0.256	0.260	1.94	15.8285
	62	1,3-Dichloropropane	0.440	0.429	0.446	0.431	0.434	0.429	0.451	0.437	0.436	0.437	1.76	16.1978
	63	Tetrachloroethene	0.296	0.276	0.282	0.282	0.278	0.271	0.275	0.274	0.265	0.278	3.09	16.3189
	64	Dibromochloromethane	0.281	0.303	0.308	0.314	0.340	0.347	0.371	0.363	0.363	0.332	9.57	16.6160
	65	1,2-Dibromoethane	0.275	0.263	0.272	0.273	0.276	0.280	0.296	0.287	0.289	0.279	3.61	16.8911
	66	1-Chlorohexane	0.472	0.459	0.449	0.469	0.470	0.462	0.470	0.466	0.449	0.463	1.90	17.0232
	67	Chlorobenzene	0.986	0.969	0.953	0.937	0.943	0.923	0.940	0.909	0.859	0.935	3.94	17.4304
	68	1,1,1,2-Tetrachloroethane	0.313	0.328	0.334	0.330	0.344	0.343	0.349	0.335	0.315	0.332	3.77	17.4659
	69	Ethylbenzene	1.661	1.591	1.555	1.555	1.551	1.521	1.538	1.498	1.400	1.541	4.57	17.4646
2	70	m-Xylene & p-Xylene	1.323	1.236	1.209	1.211	1.209	1.182	1.198	1.142	1.049	1.195	6.14	17.5625
	71	o-Xylene	1.269	1.242	1.224	1.228	1.240	1.231	1.268	1.237	1.179	1.235	2.15	18.1127
	72	Styrene	0.900	0.915	0.915	0.956	1.000	0.992	1.028	0.999	0.940	0.961	4.79	18.1457
	73	1,2-DICHLOROBENZENE-D4	1	1	1	1	1	1	1	1	1	1	0	20.4898
	74	Isopropylbenzene	3.352	3.334	3.266	3.387	3.390	3.281	3.324	3.253	3.157	3.305	2.24	18.5089
	75	Bromoform	0.379	0.366	0.394	0.401	0.436	0.448	0.481	0.468	0.481	0.428	10.38	18.5969
	76	1,1,2,2-Tetrachloroethane	0.661	0.684	0.694	0.693	0.694	0.684	0.740	0.716	0.730	0.700	3.54	18.7070
	77	4-Bromofluorobenzene	0.843	0.940	0.939	0.998	0.985	1.029	0.991	0.977	------	0.963	5.91	18.8171
	78	1,2,3-Trichloropropane	0.182	0.202	0.203	0.202	0.199	0.195	0.212	0.203	0.207	0.200	4.22	18.8758
	79	trans-1,4-Dichloro-2-butene	0.246	0.227	0.245	0.254	0.262	0.265	0.292	0.284	0.292	0.263	8.62	18.9186
	80	n-Propylbenzene	4.090	3.926	3.846	4.039	4.049	3.923	3.950	3.858	3.666	3.927	3.30	18.9601
	81	Bromobenzene	0.768	0.806	0.809	0.818	0.821	0.793	0.815	0.788	0.770	0.799	2.50	19.0702
	82	1,3,5-Trimethylbenzene	3.111	2.910	2.828	2.908	2.926	2.851	2.894	2.840	2.706	2.886	3.73	19.1252
	83	2-Chlorotoluene	2.706	2.653	2.563	2.612	2.600	2.495	2.520	2.425	2.316	2.543	4.72	19.1912
	84	4-Chlorotoluene	2.269	2.182	2.073	2.148	2.165	2.100	2.160	2.143	2.106	2.150	2.64	19.2353
	85	tert-Butylbenzene	0.563	0.565	0.565	0.598	0.590	0.572	0.576	0.556	0.525	0.568	3.67	19.5116
	86	1,2,4-Trimethylbenzene	2.985	2.898	2.801	2.876	2.921	2.839	2.894	2.825	2.684	2.858	2.99	19.5544
	87	sec-Butylbenzene	3.898	3.761	3.713	3.858	3.852	3.746	3.760	3.693	3.472	3.750	3.35	19.7305
	88	p-Isopropyltoluene	3.107	2.957	2.900	3.075	3.085	3.005	3.044	2.981	2.812	2.996	3.20	19.8625
	89	1,3-Dichlorobenzene	1.740	1.623	1.573	1.610	1.610	1.555	1.595	1.554	1.487	1.594	4.31	20.0166
	90	1,4-Dichlorobenzene	1.690	1.605	1.565	1.571	1.580	1.534	1.575	1.535	1.468	1.569	3.82	20.1156
	91	Benzyl chloride	------	0.646	0.642	0.719	0.982	1.078	------	------	------	0.813	24.95	20.2257
	92	n-Butylbenzene	2.815	2.666	2.624	2.827	2.817	2.766	2.809	2.529	2.425	2.698	5.42	20.2697
	93	1,2-Dichlorobenzene	1.522	1.555	1.486	1.459	1.458	1.421	1.464	1.427	1.378	1.463	3.65	20.5118
	94	1,2-Dibromo-3-chloropropane	------	0.099	0.109	0.119	0.129	0.137	0.150	0.142	0.146	0.129	14.26	21.3345
	95	1,2,4-Trichlorobenzene	0.737	0.730	0.729	0.786	0.877	0.879	0.898	0.863	0.829	0.814	8.55	22.3387
	96	Hexachlorobutadiene	0.490	0.471	0.471	0.482	0.482	0.488	0.487	0.480	0.445	0.477	2.87	22.4732
	97	Naphthalene	------	1.119	1.228	1.426	1.783	1.915	2.061	1.960	1.975	1.683	21.99	22.7239
	98	1,2,3-Trichlorobenzene	0.701	0.653	0.676	0.723	0.791	0.807	0.821	0.778	0.753	0.745	8.01	23.0320

Spike Amount = Nominal Amount * M

Ave_%RSD : 6.2 Max_%RSD : 40.8

Use Least Square Linear Regression with weighting factor of inverse concentration for comps with %_RSD > 15

Resp_Ratio = xo + x1 * Amt_Ratio

IDX	Parameter	x0	x1	CCF
11	Acetone	0.00655	0.08154	0.9995
16	Iodomethane	-0.01071	0.44076	0.9994
91	Benzyl chloride	-0.02719	1.05253	0.9974
97	Naphthalene	-0.05370	1.98195	0.9995

SW
2/11/11

2389

INITIAL_CALIBRATION - RELATIVE_RESPONSE_FACTOR(%REC)

Instrument ID :F4
Beginning DateTime :02/09/11 10:21
Spike Units :PPB
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09

M	IDX	Parameters	1 10:21 RBN136	2 10:48 RBN137	4 11:16 RBN138	10 11:44 RBN139	50 12:47 RBN141	100 13:15 RBN142	200 13:43 RBN143	300 14:11 RBN144	500 14:39 RBN145	AvDRec	%_RSD	Av_Rt_M
	1	1,4-DIFLUOROBENZENE	1	1	1	1	1	1	1	1	1	1	0	12.5551
	2	Dichlorodifluoromethane	99	101	104	106	97	103	98	99	94	2.9	3.73	3.6079
	3	Chloromethane	104	98	97	100	87	98	104	107	104	4.3	5.96	4.0921
	4	Vinyl chloride	94	102	107	112	103	106	97	93	85	7	8.47	4.3171
	5	Bromomethane	110	107	105	102	92	95	96	99	96	5.2	6.28	5.2195
	6	Chloroethane	85	92	97	105	103	109	105	105	100	5.9	7.66	5.3736
	7	Dichlorofluoromethane	98	101	101	98	100	98	102	101	100	1.3	1.61	5.4458
	8	Trichlorofluoromethane	95	97	101	104	97	105	101	102	96	3.1	3.51	5.8897
5	9	Acrolein	95	78	97	103	97	105	111	105	105	6.9	9.92	6.7163
	10	1,1,2-Trichloro-1,2,2-Trifluoroethane	98	101	101	101	100	99	101	102	99	1.3	1.59	6.7407
5	11	Acetone	113	91	101	100	91	99	106	98	100	4.6	6.8	6.8239
	12	1,1-Dichloroethene	100	102	98	98	100	98	102	102	100	1.4	1.78	7.0990
5	13	tert-Butyl alcohol	------	------	103	100	87	93	107	100	103	4.8	7.20	7.2035
10	14	Acetonitrile	100	100	100	97	94	94	106	100	100	2.2	3.59	7.3362
	15	Methyl acetate	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	16	Iodomethane	149	99	76	77	96	99	103	101	99	11.9	21.2	7.7031
	17	Allyl chloride	------	90	98	98	103	103	105	103	101	3.7	4.93	7.7899
	18	Methylene chloride	------	125	110	98	95	93	96	93	91	8.7	11.61	7.9990
	19	Carbon disulfide	129	96	97	94	92	98	97	97	------	7.3	11.90	8.0760
5	20	Acrylonitrile	102	89	103	103	95	102	107	99	100	3.7	5.38	8.2179
	21	tert-Butyl methyl ether (MTBE)	102	99	100	96	97	99	105	101	101	2.2	2.87	8.2533
	22	trans-1,2-Dichloroethene	100	100	99	99	101	99	102	101	99	1	1.20	8.5517
	23	Isopropyl ether (DIPE)	99	101	99	97	100	100	104	101	99	1.4	1.95	9.0689
	24	Vinyl acetate	------	82	89	97	100	109	111	108	104	8.1	10.29	9.2797
	25	1,1-Dichloroethane	100	101	99	98	101	99	102	101	98	1.1	1.34	9.3208
	26	tert-Butyl ethyl ether (ETBE)	98	99	100	95	99	100	105	103	102	2.2	2.99	9.8002
5	27	2-Butanone	108	92	101	101	91	100	106	98	102	4.1	5.69	10.0264
10	28	Propionitrile	98	100	102	96	93	98	107	100	102	3	3.88	10.1670
	29	2,2-Dichloropropane	95	93	95	99	100	102	105	106	104	3.8	4.62	10.3198
	30	cis-1,2-Dichloroethene	99	100	98	98	102	99	103	101	99	1.4	1.61	10.4018
20	31	Isobutyl alcohol	100	100	100	100	100	108	115	100	92	3.4	5.08	10.5241
10	32	Methacrylonitrile	121	102	104	100	96	96	102	92	89	6.1	8.70	10.5192
	33	Chloroform	103	98	101	99	100	99	102	100	99	1.3	1.52	10.6744
	34	tert-Amyl alcohol (TAA)	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	35	Bromochloromethane	95	102	102	101	101	99	102	99	97	2	2.47	10.9802
	36	Cyclohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000
	37	Dibromofluoromethane	76	89	100	102	104	111	109	108	------	8.6	11.77	11.0571
	38	1,1,1-Trichloroethane	94	97	98	99	102	100	103	104	102	2.5	3.10	11.3824
	39	tert-Amyl methyl ether (TAME)	79	98	98	98	101	104	111	107	106	6.2	9.25	11.7970
	40	1,2-Dichloroethane-d4	80	96	100	103	101	108	107	105	------	6.1	9.09	11.9168
	41	CHLOROBENZENE-D5	1	1	1	1	1	1	1	1	1	1	0	17.3766
	42	1,1-Dichloropropene	87	96	96	102	104	103	105	106	102	4.8	6.00	11.6515
	43	Carbon tetrachloride	95	95	96	100	102	101	104	105	103	3.2	3.80	11.8410
	44	1,2-Dichloroethane	101	100	100	99	99	99	102	100	100	.8	1.08	12.0807
	45	Benzene	111	104	101	98	98	96	98	97	95	3.7	4.96	12.1296
	46	Trichloroethene	101	99	100	100	101	99	101	100	98	.8	1.09	13.1665
	47	1,2-Dichloropropane	99	100	100	97	101	100	102	101	99	1.2	1.53	13.4673
	48	Methyl methacrylate	95	93	98	94	98	101	111	105	108	5.4	6.42	13.4844
	49	Methylcylohexane	------	------	------	------	------	------	------	------	------	0.000	0.00	0.0000

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20 50	1,4-Dioxane	------	100	100	100	100	100	100	100	100	0	12.42	13.8647
51	Bromodichloromethane	91	98	97	95	101	101	106	105	105	4.1	5.07	13.8782
52	Dibromomethane	85	98	102	101	101	102	106	103	103	3.8	6.03	13.9944
53	2-Chloroethyl vinyl ether	------	92	91	94	98	102	110	106	108	6.2	7.14	14.3283
5 54	4-Methyl-2-pentanone	103	93	103	103	94	102	107	99	97	3.8	4.58	14.3710
55	cis-1,3-Dichloropropene	90	95	96	96	102	103	107	106	105	5.2	5.91	14.7891
56	Toluene-d8	81	96	97	103	103	110	105	105	------	6.5	8.91	15.2074
57	Toluene	117	108	100	97	97	95	97	96	93	5.5	7.54	15.3382
58	Ethyl methacrylate	89	85	91	95	101	105	114	110	112	9.2	10.85	15.4935
59	trans-1,3-Dichloropropene	92	92	94	94	102	103	109	107	107	6.5	7.31	15.5705
5 60	2-Hexanone	95	89	101	103	94	104	110	102	100	4.8	6.42	15.7784
61	1,1,2-Trichloroethane	97	100	102	101	98	98	103	99	98	1.6	1.94	15.8285
62	1,3-Dichloropropane	101	98	102	99	99	98	103	100	100	1.3	1.76	16.1978
63	Tetrachloroethene	106	99	101	101	100	97	99	99	95	2.2	3.09	16.3189
64	Dibromochloromethane	85	91	93	95	102	105	112	109	109	8.2	9.57	16.6160
65	1,2-Dibromoethane	99	94	97	98	99	100	106	103	104	2.9	3.61	16.8911
66	1-Chlorohexane	102	99	97	101	102	100	102	101	97	1.6	1.90	17.0232
67	Chlorobenzene	105	104	102	100	101	99	101	97	92	2.8	3.94	17.4304
68	1,1,1,2-Tetrachloroethane	94	99	101	99	104	103	105	101	95	2.9	3.77	17.4659
69	Ethylbenzene	108	103	101	101	101	99	100	97	91	3	4.57	17.4646
2 70	m-Xylene & p-Xylene	111	103	101	101	101	99	100	96	88	4	6.14	17.5625
71	o-Xylene	103	101	99	99	100	100	103	100	95	1.4	2.15	18.1127
72	Styrene	94	95	95	99	104	103	107	104	98	4.1	4.79	18.1457
73	1,2-DICHLOROBENZENE-04	1	1	1	1	1	1	1	1	1	1	0	20.4898
74	Isopropylbenzene	101	101	99	102	103	99	101	98	96	1.8	2.24	18.5089
75	Bromoform	89	86	92	94	102	105	112	109	112	9	10.38	18.5969
76	1,1,2,2-Tetrachloroethane	94	98	99	99	99	98	106	102	104	2.8	3.54	18.7070
77	4-Bromofluorobenzene	88	98	98	104	102	107	103	101	------	4.3	5.91	18.8171
78	1,2,3-Trichloropropane	91	101	102	101	100	98	106	102	104	2.9	4.22	18.8758
79	trans-1,4-Dichloro-2-butene	94	86	93	97	100	101	111	108	111	6.8	8.62	18.9186
80	n-Propylbenzene	104	100	98	103	103	100	101	98	93	2.4	3.30	18.9601
81	Bromobenzene	96	101	101	102	103	99	102	99	96	2.1	2.50	19.0702
82	1,3,5-Trimethylbenzene	108	101	98	101	101	99	100	98	94	2.5	3.73	19.1252
83	2-Chlorotoluene	106	104	101	103	102	98	99	95	91	3.6	4.72	19.1912
84	4-Chlorotoluene	106	101	96	100	101	98	100	100	98	1.8	2.64	19.2353
85	tert-Butylbenzene	99	99	99	105	104	101	101	98	92	2.5	3.67	19.5116
86	1,2,4-Trimethylbenzene	104	101	98	101	102	99	101	99	94	2.2	2.99	19.5544
87	sec-Butylbenzene	104	100	99	103	103	100	100	98	93	2.2	3.35	19.7305
88	p-Isopropyltoluene	104	99	97	103	103	100	102	99	94	2.5	3.20	19.8625
89	1,3-Dichlorobenzene	109	102	99	101	101	98	100	97	93	2.9	4.31	20.0166
90	1,4-Dichlorobenzene	108	102	100	100	101	98	100	98	94	2.5	3.82	20.1156
91	Benzyl chloride	------	126	93	81	96	104	------	------	------	12	16.6	20.2257
92	n-Butylbenzene	104	99	97	105	104	103	104	94	90	4.5	5.42	20.2697
93	1,2-Dichlorobenzene	104	106	102	100	100	97	100	98	94	2.6	3.65	20.5118
94	1,2-Dibromo-3-chloropropane	------	77	84	92	100	106	116	110	113	11.5	14.26	21.3345
95	1,2,4-Trichlorobenzene	91	90	90	97	108	108	110	106	102	7.5	8.55	22.3387
96	Hexachlorobutadiene	103	99	99	101	101	102	102	101	93	2.1	2.87	22.4732
97	Naphthalene	------	124	96	85	93	98	105	99	100	7.2	11.3	22.7239
98	1,2,3-Trichlorobenzene	94	88	91	97	106	108	110	104	101	6.7	8.01	23.0320

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Compound List Report F4

Method Path : C:\MSDCHEM\1\METHODS\
Method File : VOF4B09.M
Title : METHOD 8260 5mL
Last Update : Fri Feb 11 06:46:41 2011
Response Via : Initial Calibration

Total Cpnds : 98

PK#		Compound Name	QIon	Exp_RT	Rel_RT	Cal	#Qual	A/H	ID
1	I	1,4-DIFLUOROBENZENE	114	12.555	1.000	A	1	A	B
2	T	Dichlorodifluoromethane	85	3.608	0.287	A	1	A	B
3	T	Chloromethane	50	4.092	0.326	A	1	A	B
4	T	Vinyl chloride	62	4.312	0.343	A	1	A	B
5	T	Bromomethane	94	5.215	0.415	A	1	A	B
6	T	Chloroethane	64	5.369	0.428	A	2	A	B
7	T	Dichlorofluoromethane	67	5.446	0.434	A	1	A	B
8	T	Trichlorofluoromethane	101	5.886	0.469	A	1	A	B
9	T	Acrolein	56	6.711	0.535	A	1	A	B
10	T	1,1,2-Trichloro-1,2,2-Trifl...	151	6.744	0.537	A	1	A	B
11	T	Acetone	43	6.821	0.543	L	2	A	B
12	T	1,1-Dichloroethene	61	7.097	0.565	A	2	A	B
13	T	tert-Butyl alcohol	59	7.196	0.573	A	1	A	B
14	T	Acetonitrile	41	7.328	0.584	A	2	A	B
15	T	Methyl acetate	43	0.000	0.000	A	1	A	B
16	T	Iodomethane	142	7.702	0.613	L	1	A	B
17	T	Allyl chloride	76	7.790	0.620	A	1	A	B
18	T	Methylene chloride	49	7.999	0.637	A	2	A	B
19	T	Carbon disulfide	76	8.076	0.643	A	1	A	B
20	T	Acrylonitrile	53	8.208	0.654	A	2	A	B
21	T	tert-Butyl methyl ether (MTBE)	73	8.252	0.657	A	1	A	B
22	T	trans-1,2-Dichloroethene	61	8.549	0.681	A	2	A	B
23	T	Isopropyl ether (DIPE)	45	9.066	0.722	A	1	A	B
24	T	Vinyl acetate	43	9.276	0.739	A	1	A	B
25	T	1,1-Dichloroethane	63	9.320	0.742	A	2	A	B
26	T	tert-Butyl ethyl ether (ETBE)	59	9.793	0.780	A	1	A	B
27	T	2-Butanone	43	10.024	0.798	A	1	A	B
28	T	Propionitrile	54	10.156	0.809	A	1	A	B
29	T	2,2-Dichloropropane	77	10.321	0.822	A	2	A	B
30	T	cis-1,2-Dichloroethene	96	10.398	0.828	A	2	A	B
31	T	Isobutyl alcohol	43	10.519	0.838	A	1	A	B
32	T	Methacrylonitrile	52	10.508	0.837	A	2	A	B
33	T	Chloroform	83	10.673	0.850	A	2	A	B
34	T	tert-Amyl alcohol (TAA)	59	0.000	0.000	A	2	A	B
35	T	Bromochloromethane	49	10.970	0.874	A	2	A	B
36	T	Cyclohexane	56	0.000	0.000	A	2	A	B
37	S	Dibromofluoromethane	111	11.047	0.880	A	2	A	B
38	T	1,1,1-Trichloroethane	97	11.378	0.906	A	2	A	B
39	T	tert-Amyl methyl ether (TAME)	87	11.796	0.940	A	2	A	B
40	S	1,2-Dichloroethane-d4	65	11.917	0.949	A	1	A	B
41	I	CHLOROBENZENE-D5	117	17.375	1.000	A	2	A	B
42	T	1,1-Dichloropropene	110	11.653	0.671	A	1	A	B
43	T	Carbon tetrachloride	119	11.840	0.681	A	1	A	B
44	T	1,2-Dichloroethane	62	12.071	0.695	A	1	A	B
45	T	Benzene	78	12.126	0.698	A	2	A	B
46	T	Trichloroethene	130	13.160	0.757	A	3	A	B
47	T	1,2-Dichloropropane	63	13.469	0.775	A	2	A	B
48	T	Methyl methacrylate	69	13.480	0.776	A	2	A	B
49	T	Methylcylohexane	83	0.000	0.000	A	2	A	B
50	T	1,4-Dioxane	88	13.865	0.798	A	1	A	B
51	T	Bromodichloromethane	83	13.876	0.799	A	1	A	B
52	T	Dibromomethane	93	13.986	0.805	A	2	A	B
53	T	2-Chloroethyl vinyl ether	63	14.327	0.825	A	2	A	B
54	T	4-Methyl-2-pentanone	43	14.371	0.827	A	3	A	B
55	T	cis-1,3-Dichloropropene	75	14.789	0.851	A	3	A	B

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56	S	Toluene-d8	98	15.207	0.875	A	1	A	B
57	T	Toluene	91	15.328	0.882	A	1	A	B
58	T	Ethyl methacrylate	69	15.493	0.892	A	2	A	B
59	T	trans-1,3-Dichloropropene	75	15.571	0.896	A	2	A	B
60	T	2-Hexanone	43	15.769	0.908	A	2	A	B
61	T	1,1,2-Trichloroethane	97	15.824	0.911	A	3	A	B
62	T	1,3-Dichloropropane	76	16.198	0.932	A	1	A	B
63	T	Tetrachloroethene	164	16.319	0.939	A	3	A	B
64	T	Dibromochloromethane	129	16.616	0.956	A	1	A	B
65	T	1,2-Dibromoethane	107	16.891	0.972	A	1	A	B
66	T	1-Chlorohexane	91	17.023	0.980	A	3	A	B
67	T	Chlorobenzene	112	17.430	1.003	A	3	A	B
68	T	1,1,1,2-Tetrachloroethane	131	17.463	1.005	A	3	A	B
69	T	Ethylbenzene	91	17.463	1.005	A	1	A	B
70	T	m-Xylene & p-Xylene	91	17.562	1.011	A	1	A	B
71	T	o-Xylene	91	18.113	1.042	A	1	A	B
72	T	Styrene	104	18.146	1.044	A	2	A	B
73	I	1,2-DICHLOROBENZENE-D4	152	20.490	1.000	A	1	A	B
74	T	Isopropylbenzene	105	18.509	0.903	A	3	A	B
75	T	Bromoform	173	18.597	0.908	A	2	A	B
76	T	1,1,2,2-Tetrachloroethane	83	18.707	0.913	A	1	A	B
77	S	4-Bromofluorobenzene	95	18.817	0.918	A	2	A	B
78	T	1,2,3-Trichloropropane	110	18.872	0.921	A	2	A	B
79	T	trans-1,4-Dichloro-2-butene	53	18.916	0.923	A	1	A	B
80	T	n-Propylbenzene	91	18.960	0.925	A	2	A	B
81	T	Bromobenzene	156	19.070	0.931	A	2	A	B
82	T	1,3,5-Trimethylbenzene	105	19.125	0.933	A	2	A	B
83	T	2-Chlorotoluene	91	19.191	0.937	A	1	A	B
84	T	4-Chlorotoluene	91	19.235	0.939	A	1	A	B
85	T	tert-Butylbenzene	134	19.510	0.952	A	2	A	B
86	T	1,2,4-Trimethylbenzene	105	19.554	0.954	A	1	A	B
87	T	sec-Butylbenzene	105	19.730	0.963	A	1	A	B
88	T	p-Isopropyltoluene	119	19.863	0.969	A	2	A	B
89	T	1,3-Dichlorobenzene	146	20.017	0.977	A	2	A	B
90	T	1,4-Dichlorobenzene	146	20.116	0.982	A	2	A	B
91	T	Benzyl chloride	91	20.226	0.987	L	3	A	B
92	T	n-Butylbenzene	91	20.270	0.989	A	2	A	B
93	T	1,2-Dichlorobenzene	146	20.512	1.001	A	2	A	B
94	T	1,2-Dibromo-3-chloropropane	157	21.337	1.041	A	2	A	B
95	T	1,2,4-Trichlorobenzene	180	22.339	1.090	A	2	A	B
96	T	Hexachlorobutadiene	225	22.482	1.097	A	2	A	B
97	T	Naphthalene	128	22.724	1.109	L	1	A	B
98	T	1,2,3-Trichlorobenzene	180	23.032	1.124	A	2	A	B

Cal A = Average L = Linear LO = Linear w/origin Q = Quad QO = Quad w/origin
#Qual = number of qualifiers
A/H = Area or Height
ID R = R.T. B = R.T. & Q Q = Qvalue L = Largest A = All

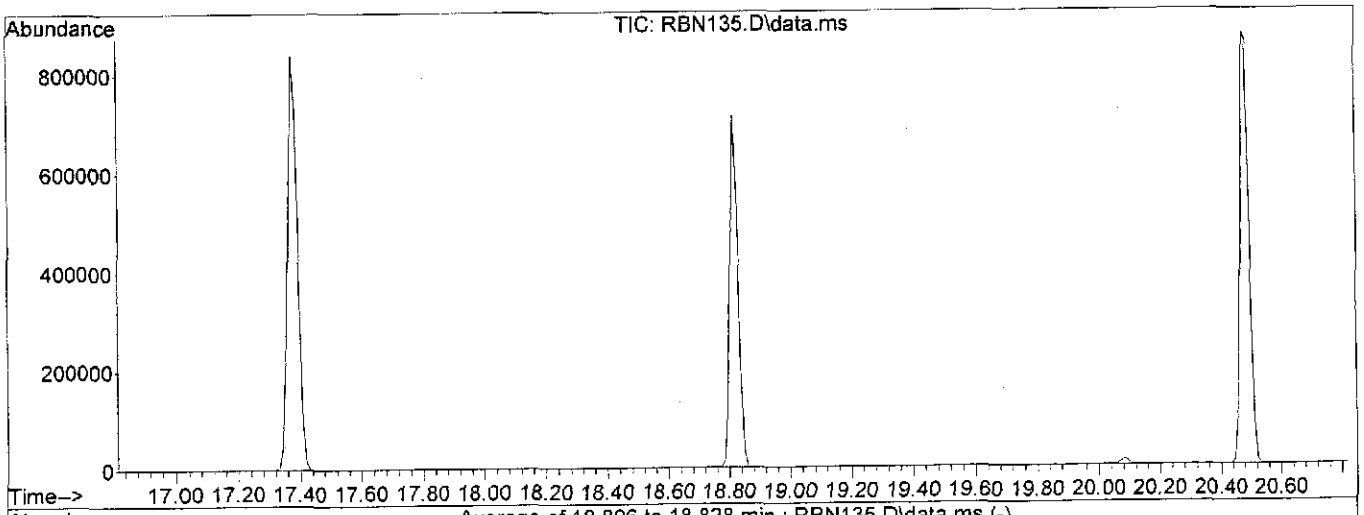
VOF4B09.M Fri Feb 11 06:47:24 2011 F4

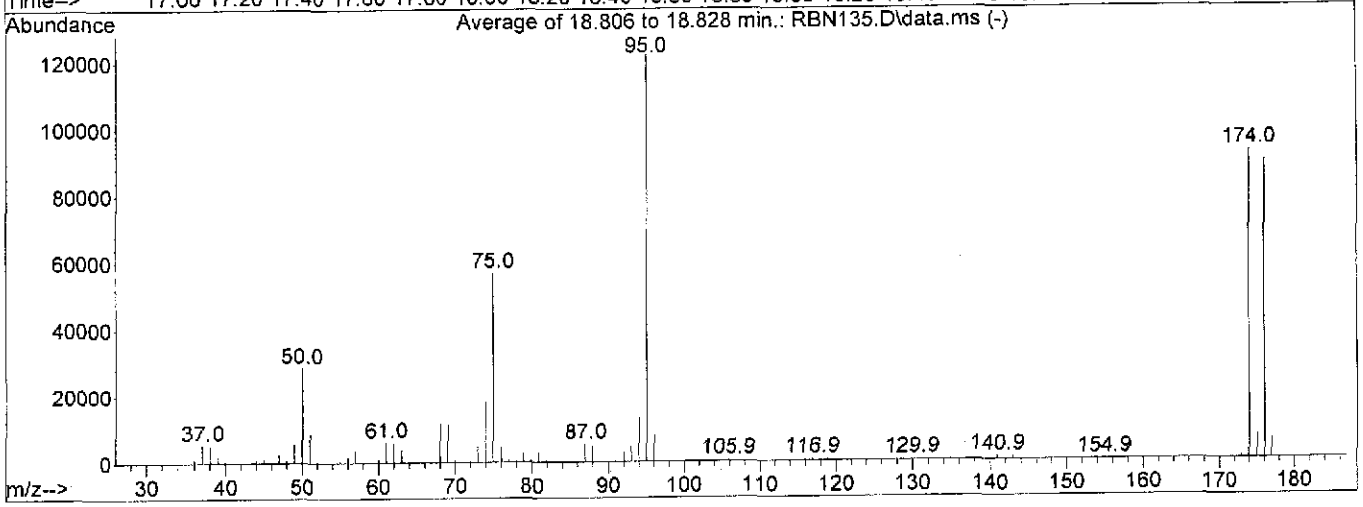
SS 2/11/11

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN135.D
Acq On : 9 Feb 2011 9:53 am
Operator : CGM
Sample : BFBF4B09
Misc : T/CHK
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Title : METHOD 8260 5mL
Last Update : Fri Feb 11 06:46:41 2011





AutoFind: Scans 1392, 1393, 1394; Background Corrected with Scan 1387

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.4	28589	PASS
75	95	30	60	46.6	56891	PASS
95	95	100	100	100.0	122213	PASS
96	95	5	9	6.6	8084	PASS
173	174	0.00	2	0.9	817	PASS
174	95	50	100	75.7	92488	PASS
175	174	5	9	7.6	7051	PASS
176	174	95	101	96.9	89659	PASS
177	176	5	9	6.5	5863	PASS

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN136.D
Acq On : 9 Feb 2011 10:21 am
Operator : CGM
Sample : VOF4B091
Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:49:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	939246	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	827767	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	382487	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	4596	0.76	ug/l	0.01
Spiked Amount 50.000			Recovery	=	1.52%	
40) 1,2-Dichloroethane-d4	11.917	65	4849	0.80	ug/l	0.00
Spiked Amount 50.000			Recovery	=	1.60%	
56) Toluene-d8	15.207	98	15191	0.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	1.62%	
77) 4-Bromofluorobenzene	18.817	95	6447	0.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	1.76%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	5631	0.99	ug/l	99
3) Chloromethane	4.092	50	6208	1.04	ug/l	98
4) Vinyl chloride	4.323	62	4549	0.94	ug/l	99
5) Bromomethane	5.226	94	5624	1.10	ug/l	99
6) Chloroethane	5.380	64	4122	0.85	ug/L	68
7) Dichlorofluoromethane	5.446	67	11970	0.98	ug/L	91
8) Trichlorofluoromethane	5.897	101	8512	0.95	ug/l	99
9) Acrolein	6.722	56	3253	4.69	ug/l	86
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	3693	0.97	ug/l	77
11) Acetone	6.832	43	14824	5.66	ug/l	94
12) 1,1-Dichloroethene	7.107	61	9520	1.00	ug/L	97
13) tert-Butyl alcohol	7.206	59	3053	5.50	ug/L #	1
14) Acetonitrile	7.339	41	6640	10.17	ug/L	77
16) Iodomethane	7.702	142	2314	1.49	ug/L	62
17) Allyl chloride	7.790	76	2112	0.83	ug/L #	42
18) Methylene chloride	8.010	49	19175	1.76	ug/l	99
19) Carbon disulfide	8.076	76	26170	1.29	ug/L	90
20) Acrylonitrile	8.219	53	11731	5.08	ug/l	97
21) tert-Butyl methyl ethe...	8.252	73	13348	1.02	ug/L	92
22) trans-1,2-Dichloroethene	8.560	61	10233	1.00	ug/l	96
23) Isopropyl ether (DIPE)	9.077	45	25793	0.99	ug/l	95
24) Vinyl acetate	9.286	43	8666	0.80	ug/l #	80
25) 1,1-Dichloroethane	9.319	63	11692	1.00	ug/l #	91
26) tert-Butyl ethyl ether...	9.804	59	21180	0.98	ug/l	95
27) 2-Butanone	10.035	43	14768	5.39	ug/l	92
28) Propionitrile	10.167	54	8255	9.82	ug/L	90
29) 2,2-Dichloropropane	10.321	77	7377	0.95	ug/L	85
30) cis-1,2-Dichloroethene	10.409	96	5909	0.99	ug/L	88
31) Isobutyl alcohol	10.519	43	4987	19.92	ug/L	98
32) Methacrylonitrile	10.519	52	11932	11.97	ug/L	80
33) Chloroform	10.673	83	9846	1.03	ug/l	96
35) Bromochloromethane	10.981	49	6334	0.95	ug/l	95
38) 1,1,1-Trichloroethane	11.377	97	7851	0.94	ug/l	97
39) tert-Amyl methyl ether...	11.796	87	2421	0.79	ug/l #	47
42) 1,1-Dichloropropene	11.642	110	2355	0.87	ug/L	99
43) Carbon tetrachloride	11.840	119	7193	0.96	ug/l	95
44) 1,2-Dichloroethane	12.082	62	7845	1.01	ug/l	90
45) Benzene	12.126	78	23245	1.11	ug/l	97

SK 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN136.D
Acq On : 9 Feb 2011 10:21 am
Operator : CGM
Sample : VOF4B091
Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:49:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Trichloroethene	13.171	130	6209	1.01 ug/l		94
47) 1,2-Dichloropropane	13.468	63	6787	0.99 ug/L		92
48) Methyl methacrylate	13.490	69	2598	0.94 ug/L		90
51) Bromodichloromethane	13.887	83	6512	0.91 ug/l		98
52) Dibromomethane	13.986	93	2621	0.85 ug/l		87
53) 2-Chloroethyl vinyl ether	14.327	63	2698	0.83 ug/l	#	56
54) 4-Methyl-2-pentanone	14.371	43	32977	5.15 ug/l		98
55) cis-1,3-Dichloropropene	14.789	75	7389	0.90 ug/l		93
57) Toluene	15.339	91	26929	1.17 ug/L		100
58) Ethyl methacrylate	15.493	69	4813	0.89 ug/L	#	88
59) trans-1,3-Dichloropropene	15.570	75	6417	0.91 ug/l		97
60) 2-Hexanone	15.780	43	19320	4.75 ug/l		97
61) 1,1,2-Trichloroethane	15.835	97	4195	0.98 ug/l		93
62) 1,3-Dichloropropane	16.198	76	7285	1.01 ug/l		93
63) Tetrachloroethene	16.319	164	4902	1.07 ug/l		98
64) Dibromochloromethane	16.616	129	4645	0.84 ug/l		93
65) 1,2-Dibromoethane	16.891	107	4560	0.99 ug/l		95
66) 1-Chlorohexane	17.023	91	7818	1.02 ug/l		98
67) Chlorobenzene	17.430	112	16331	1.05 ug/l		97
68) 1,1,1,2-Tetrachloroethane	17.474	131	5174	0.94 ug/l	#	1
69) Ethylbenzene	17.463	91	27494	1.08 ug/l		99
70) m-Xylene & p-Xylene	17.562	91	43806	2.21 ug/l		99
71) o-Xylene	18.113	91	21012	1.03 ug/l		99
72) Styrene	18.146	104	14901	0.94 ug/l		97
74) Isopropylbenzene	18.509	105	25641	1.01 ug/l		99
75) Bromoform	18.597	173	2897	0.88 ug/l		88
76) 1,1,2,2-Tetrachloroethane	18.707	83	5056	0.94 ug/l		100
78) 1,2,3-Trichloropropane	18.872	110	1389	0.91 ug/l		95
79) trans-1,4-Dichloro-2-b...	18.916	53	1884	0.94 ug/l		57
80) n-Propylbenzene	18.960	91	31285	1.04 ug/l		98
81) Bromobenzene	19.070	156	5877	0.96 ug/l		87
82) 1,3,5-Trimethylbenzene	19.125	105	23802	1.08 ug/l		96
83) 2-Chlorotoluene	19.191	91	20699	1.06 ug/l		98
84) 4-Chlorotoluene	19.235	91	17356	1.06 ug/l		98
85) tert-Butylbenzene	19.510	134	4309	0.99 ug/l	#	87
86) 1,2,4-Trimethylbenzene	19.554	105	22832	1.04 ug/l		100
87) sec-Butylbenzene	19.730	105	29819	1.04 ug/l		99
88) p-Isopropyltoluene	19.862	119	23764	1.04 ug/l		99
89) 1,3-Dichlorobenzene	20.016	146	13312	1.09 ug/l		97
90) 1,4-Dichlorobenzene	20.116	146	12931	1.08 ug/l		99
91) Benzyl chloride	20.226	91	5021	1.92 ug/l	#	87
92) n-Butylbenzene	20.270	91	21537	1.04 ug/l		97
93) 1,2-Dichlorobenzene	20.512	146	11645	1.04 ug/l	#	60
94) 1,2-Dibromo-3-chloropr...	21.326	157	510	0.52 ug/l	#	77
95) 1,2,4-Trichlorobenzene	22.339	180	5639	0.91 ug/l		94
96) Hexachlorobutadiene	22.471	225	3751	1.03 ug/l		93
97) Naphthalene	22.724	128	8085	1.89 ug/l		85
98) 1,2,3-Trichlorobenzene	23.032	180	5359	0.94 ug/l		91

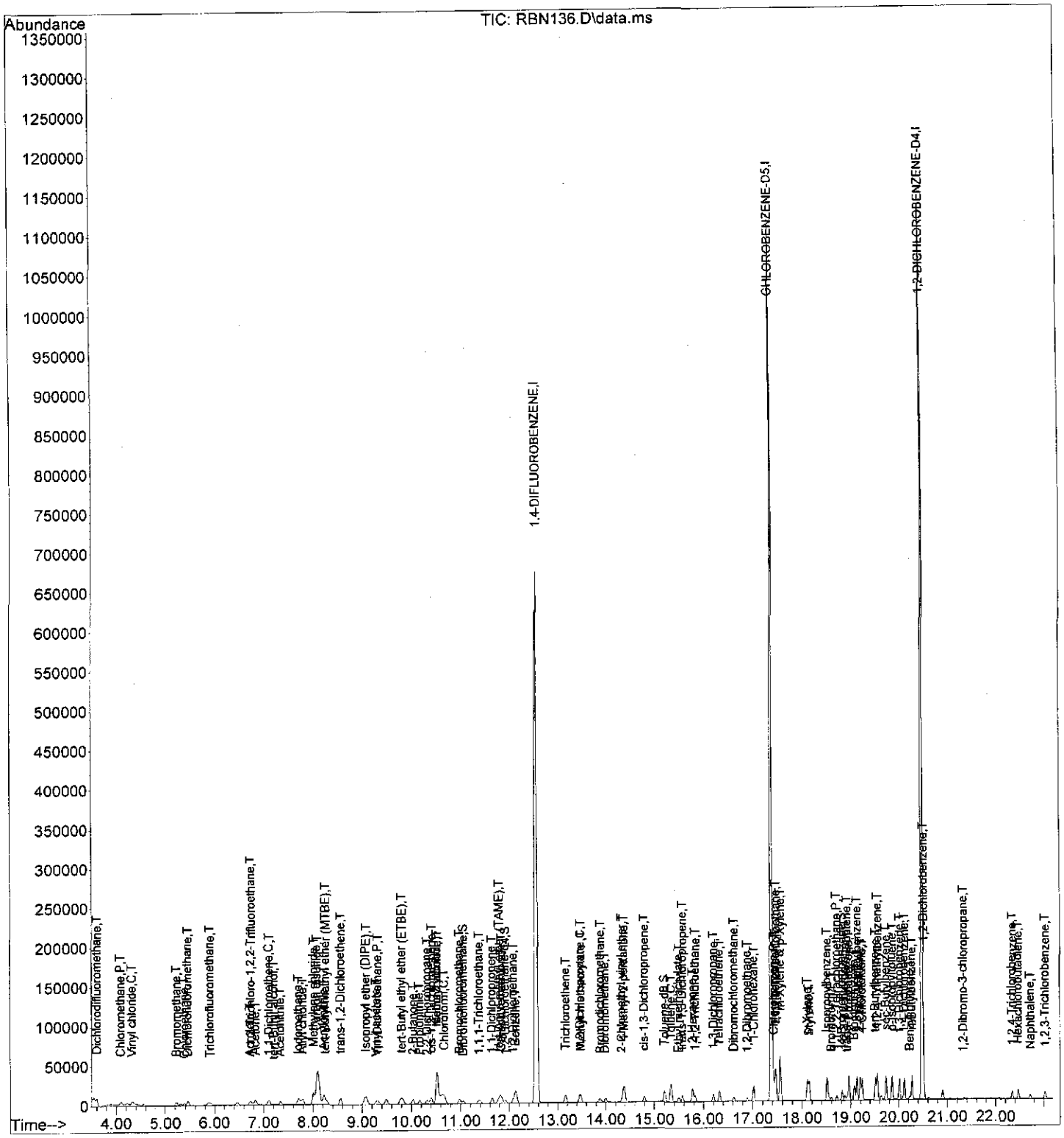
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sc 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN136.D
Acq On : 9 Feb 2011 10:21 am
Operator : CGM
Sample : VOF4B091
Misc : 1.0ppb 8260/5.0ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:49:53 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SM 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN137.D
Acq On : 9 Feb 2011 10:48 am
Operator : CGM
Sample : VOF4B092
Misc : 2.0ppb 8260/10ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 08:14:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	933179	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	824375	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	379390	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.059	111	10664	1.78	ug/l	0.01
Spiked Amount 50.000			Recovery	=	3.56%	
40) 1,2-Dichloroethane-d4	11.917	65	11621	1.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	3.84%	
56) Toluene-d8	15.207	98	35897	1.92	ug/l	0.00
Spiked Amount 50.000			Recovery	=	3.84%	
77) 4-Bromofluorobenzene	18.817	95	14258	1.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	3.90%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	11374	2.01	ug/l	98
3) Chloromethane	4.092	50	11650	1.97	ug/l	92
4) Vinyl chloride	4.323	62	9871	2.05	ug/l	96
5) Bromomethane	5.226	94	10817	2.14	ug/l	99
6) Chloroethane	5.380	64	8857	1.83	ug/L	85
7) Dichlorofluoromethane	5.457	67	24513	2.03	ug/L	100
8) Trichlorofluoromethane	5.897	101	17259	1.94	ug/l	98
9) Acrolein	6.722	56	5403	7.84	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	7616	2.02	ug/l	94
11) Acetone	6.833	43	20019	9.14	ug/l	99
12) 1,1-Dichloroethene	7.108	61	19370	2.04	ug/L	96
13) tert-Butyl alcohol	7.207	59	6081	11.02	ug/L	79
14) Acetonitrile	7.339	41	13196	20.35	ug/L	88
16) Iodomethane	7.713	142	6274	1.98	ug/L	90
17) Allyl chloride	7.790	76	4545	1.79	ug/L #	78
18) Methylene chloride	7.999	49	26919	2.49	ug/l	99
19) Carbon disulfide	8.076	76	38512	1.91	ug/L	97
20) Acrylonitrile	8.219	53	20261	8.84	ug/l	97
21) tert-Butyl methyl ethe...	8.252	73	25847	1.98	ug/L	96
22) trans-1,2-Dichloroethene	8.560	61	20304	2.00	ug/l	97
23) Isopropyl ether (DIPE)	9.067	45	52351	2.02	ug/l	98
24) Vinyl acetate	9.287	43	17597	1.64	ug/l	84
25) 1,1-Dichloroethane	9.320	63	23434	2.02	ug/l	95
26) tert-Butyl ethyl ether...	9.804	59	42313	1.97	ug/l	97
27) 2-Butanone	10.035	43	24948	9.16	ug/l	97
28) Propionitrile	10.167	54	16842	20.16	ug/L	97
29) 2,2-Dichloropropane	10.310	77	14448	1.87	ug/L	92
30) cis-1,2-Dichloroethene	10.409	96	11938	2.01	ug/L	93
31) Isobutyl alcohol	10.519	43	9866	39.67	ug/L	96
32) Methacrylonitrile	10.519	52	20032	20.22	ug/L	99
33) Chloroform	10.673	83	18769	1.97	ug/l	100
35) Bromochloromethane	10.981	49	13530	2.05	ug/l	98
38) 1,1,1-Trichloroethane	11.378	97	16001	1.94	ug/l	99
39) tert-Amyl methyl ether...	11.796	87	5992	1.96	ug/l	90
42) 1,1-Dichloropropene	11.653	110	5128	1.90	ug/L	98
43) Carbon tetrachloride	11.840	119	14163	1.89	ug/l	99
44) 1,2-Dichloroethane	12.082	62	15472	2.00	ug/l	97
45) Benzene	12.137	78	43429	2.08	ug/l	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN137.D
Acq On : 9 Feb 2011 10:48 am
Operator : CGM
Sample : VOF4B092
Misc : 2.0ppb 8260/10ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 08:14:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Trichloroethene	13.172	130	12160	1.99 ug/l		99
47) 1,2-Dichloropropane	13.458	63	13691	2.00 ug/L		97
48) Methyl methacrylate	13.491	69	5115	1.86 ug/L		90
50) 1,4-Dioxane	13.854	88	1046	28.68 ug/L		85
51) Bromodichloromethane	13.887	83	14023	1.97 ug/l		99
52) Dibromomethane	13.997	93	6017	1.96 ug/l		99
53) 2-Chloroethyl vinyl ether	14.338	63	5974	1.84 ug/l		87
54) 4-Methyl-2-pentanone	14.371	43	59333	9.31 ug/l		98
55) cis-1,3-Dichloropropene	14.789	75	15500	1.90 ug/l		97
57) Toluene	15.340	91	49351	2.15 ug/L		98
58) Ethyl methacrylate	15.494	69	9215	1.70 ug/L		95
59) trans-1,3-Dichloropropene	15.571	75	12843	1.84 ug/l		98
60) 2-Hexanone	15.780	43	35972	8.87 ug/l		97
61) 1,1,2-Trichloroethane	15.835	97	8580	2.00 ug/l		96
62) 1,3-Dichloropropane	16.198	76	14141	1.96 ug/l		96
63) Tetrachloroethene	16.319	164	9102	1.99 ug/l		98
64) Dibromochloromethane	16.616	129	10000	1.83 ug/l		98
65) 1,2-Dibromoethane	16.891	107	8681	1.89 ug/l		98
66) 1-Chlorohexane	17.023	91	15145	1.98 ug/l		98
67) Chlorobenzene	17.430	112	31961	2.07 ug/l		88
68) 1,1,1,2-Tetrachloroethane	17.464	131	10824	1.97 ug/l	#	1
69) Ethylbenzene	17.464	91	52467	2.07 ug/l		99
70) m-Xylene & p-Xylene	17.563	91	81538	4.14 ug/l		100
71) o-Xylene	18.113	91	40954	2.01 ug/l		99
72) Styrene	18.146	104	30156	1.90 ug/l		99
74) Isopropylbenzene	18.509	105	50600	2.02 ug/l		99
75) Bromoform	18.597	173	5561	1.71 ug/l		95
76) 1,1,2,2-Tetrachloroethane	18.707	83	10385	1.96 ug/l		99
78) 1,2,3-Trichloropropane	18.883	110	3060	2.01 ug/l		94
79) trans-1,4-Dichloro-2-b...	18.916	53	3442	1.72 ug/l		78
80) n-Propylbenzene	18.960	91	59572	2.00 ug/l		99
81) Bromobenzene	19.070	156	12227	2.02 ug/l		97
82) 1,3,5-Trimethylbenzene	19.125	105	44161	2.02 ug/l		98
83) 2-Chlorotoluene	19.191	91	40266	2.09 ug/l		100
84) 4-Chlorotoluene	19.235	91	33119	2.03 ug/l		100
85) tert-Butylbenzene	19.510	134	8580	1.99 ug/l		92
86) 1,2,4-Trimethylbenzene	19.555	105	43983	2.03 ug/l		100
87) sec-Butylbenzene	19.731	105	57076	2.01 ug/l		100
88) p-Isopropyltoluene	19.863	119	44877	1.97 ug/l		99
89) 1,3-Dichlorobenzene	20.017	146	24630	2.04 ug/l		99
90) 1,4-Dichlorobenzene	20.116	146	24350	2.05 ug/l		98
91) Benzyl chloride	20.226	91	9804	2.52 ug/l		95
92) n-Butylbenzene	20.270	91	40454	1.98 ug/l		100
93) 1,2-Dichlorobenzene	20.512	146	23602	2.13 ug/l		84
94) 1,2-Dibromo-3-chloropr...	21.326	157	1496	1.53 ug/l		88
95) 1,2,4-Trichlorobenzene	22.339	180	11081	1.79 ug/l		97
96) Hexachlorobutadiene	22.471	225	7154	1.98 ug/l		96
97) Naphthalene	22.724	128	16978	2.48 ug/l		98
98) 1,2,3-Trichlorobenzene	23.032	180	9909	1.75 ug/l		98

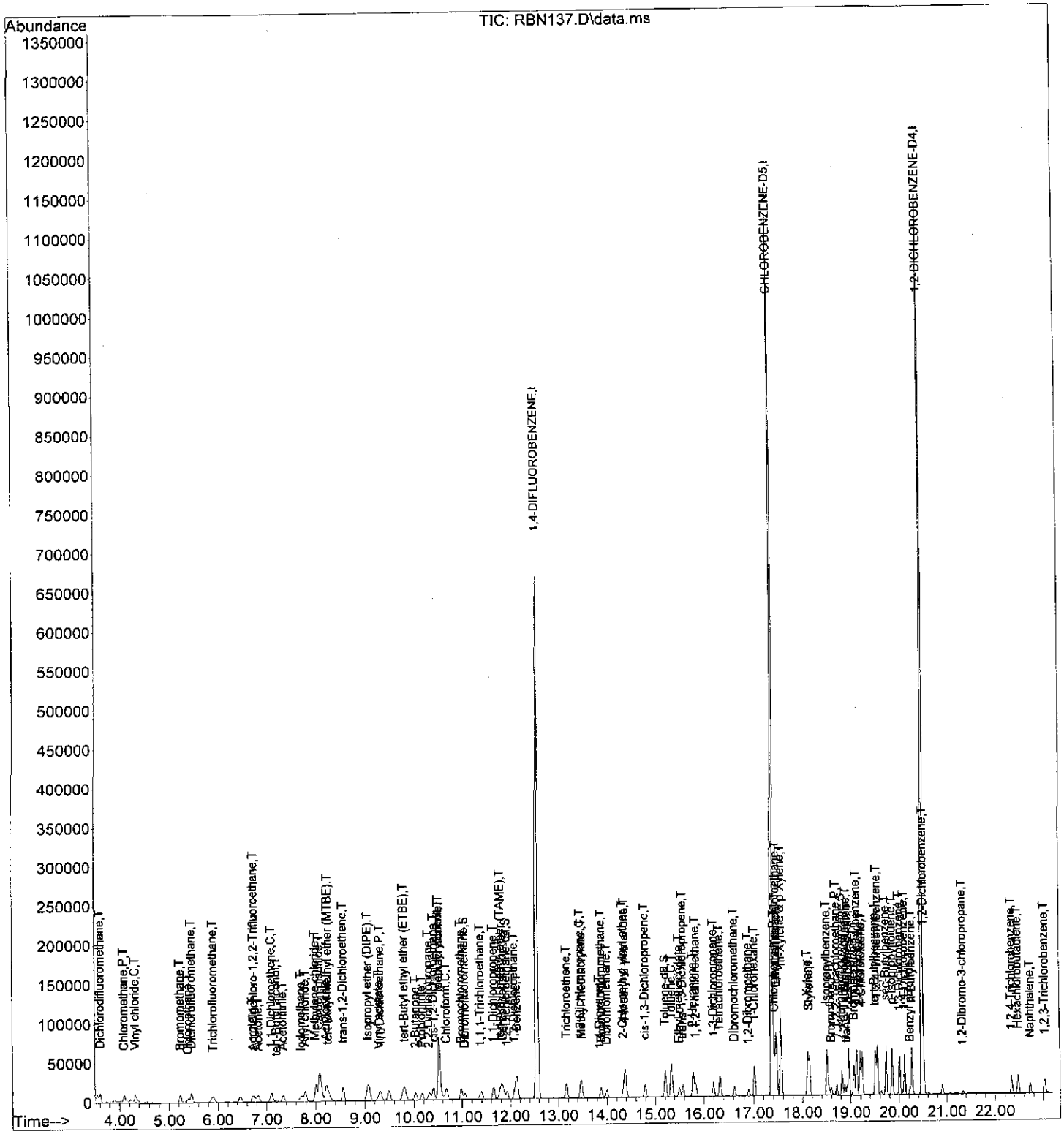
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN137.D
Acq On : 9 Feb 2011 10:48 am
Operator : CGM
Sample : VOF4B092
Misc : 2.0ppb 8260/10ppb KET-AA-TBA
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 11 08:14:32 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SW 2/14/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN138.D
Acq On : 9 Feb 2011 11:16 am
Operator : CGM
Sample : VOF4B093
Misc : 4.0ppb 8260/20ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 11 06:49:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	929801	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	827592	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	389262	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.059	111	23846	4.00	ug/l	0.01
Spiked Amount 50.000			Recovery	=	8.00%	
40) 1,2-Dichloroethane-d4	11.917	65	24182	4.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	8.02%	
56) Toluene-d8	15.207	98	72615	3.87	ug/l	0.00
Spiked Amount 50.000			Recovery	=	7.74%	
77) 4-Bromofluorobenzene	18.817	95	29226	3.90	ug/l	0.00
Spiked Amount 50.000			Recovery	=	7.80%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	23341	4.14	ug/l	99
3) Chloromethane	4.092	50	22958	3.89	ug/l	94
4) Vinyl chloride	4.323	62	20438	4.26	ug/l	100
5) Bromomethane	5.226	94	21158	4.19	ug/l	97
6) Chloroethane	5.380	64	18645	3.88	ug/L	99
7) Dichlorofluoromethane	5.446	67	48739	4.04	ug/L	99
8) Trichlorofluoromethane	5.897	101	35861	4.05	ug/l	98
9) Acrolein	6.722	56	13372	19.49	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	15196	4.04	ug/l	96
11) Acetone	6.822	43	36802	20.26	ug/l	99
12) 1,1-Dichloroethene	7.108	61	36968	3.91	ug/L	99
13) tert-Butyl alcohol	7.207	59	11365	20.66	ug/L	85
14) Acetonitrile	7.339	41	26295	40.69	ug/L	89
16) Iodomethane	7.702	142	15052	3.05	ug/L	99
17) Allyl chloride	7.790	76	9883	3.91	ug/L	93
18) Methylene chloride	7.999	49	47564	4.42	ug/l	99
19) Carbon disulfide	8.076	76	77542	3.86	ug/L	98
20) Acrylonitrile	8.219	53	47111	20.62	ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	52111	4.01	ug/L	98
22) trans-1,2-Dichloroethene	8.549	61	39940	3.95	ug/l	99
23) Isopropyl ether (DIPE)	9.078	45	102702	3.97	ug/l	100
24) Vinyl acetate	9.287	43	38202	3.57	ug/l	97
25) 1,1-Dichloroethane	9.331	63	45961	3.97	ug/l	99
26) tert-Butyl ethyl ether...	9.804	59	85082	3.98	ug/l	99
27) 2-Butanone	10.024	43	55003	20.28	ug/l	99
28) Propionitrile	10.167	54	34147	41.03	ug/L	95
29) 2,2-Dichloropropane	10.321	77	29355	3.81	ug/L	98
30) cis-1,2-Dichloroethene	10.398	96	23393	3.95	ug/L	99
31) Isobutyl alcohol	10.519	43	19615	79.16	ug/L	99
32) Methacrylonitrile	10.519	52	41036	41.58	ug/L	97
33) Chloroform	10.673	83	38303	4.03	ug/l	100
35) Bromochloromethane	10.981	49	26808	4.07	ug/l	100
38) 1,1,1-Trichloroethane	11.389	97	32458	3.94	ug/l	98
39) tert-Amyl methyl ether...	11.796	87	11901	3.91	ug/l	90
42) 1,1-Dichloropropene	11.653	110	10404	3.85	ug/L	95
43) Carbon tetrachloride	11.851	119	28918	3.84	ug/l	99
44) 1,2-Dichloroethane	12.082	62	31097	4.00	ug/l	99
45) Benzene	12.137	78	84903	4.06	ug/l	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN138.D
Acq On : 9 Feb 2011 11:16 am
Operator : CGM
Sample : VOF4B093
Misc : 4.0ppb 8260/20ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 11 06:49:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
46) Trichloroethene	13.172	130	24617	4.01 ug/l		98
47) 1,2-Dichloropropane	13.469	63	27539	4.02 ug/L		97
48) Methyl methacrylate	13.491	69	10740	3.90 ug/L		97
50) 1,4-Dioxane	13.865	88	2777	75.85 ug/L		96
51) Bromodichloromethane	13.876	83	27800	3.89 ug/l		98
52) Dibromomethane	13.997	93	12521	4.06 ug/l		96
53) 2-Chloroethyl vinyl ether	14.327	63	11947	3.66 ug/l		97
54) 4-Methyl-2-pentanone	14.371	43	131825	20.61 ug/l		99
55) cis-1,3-Dichloropropene	14.789	75	31233	3.82 ug/l		99
57) Toluene	15.340	91	92260	4.01 ug/L		99
58) Ethyl methacrylate	15.494	69	19649	3.62 ug/L		99
59) trans-1,3-Dichloropropene	15.571	75	26291	3.75 ug/l		99
60) 2-Hexanone	15.780	43	82376	20.24 ug/l		98
61) 1,1,2-Trichloroethane	15.835	97	17624	4.10 ug/l		98
62) 1,3-Dichloropropane	16.198	76	29516	4.08 ug/l		100
63) Tetrachloroethene	16.319	164	18687	4.06 ug/l		99
64) Dibromochloromethane	16.616	129	20407	3.71 ug/l		100
65) 1,2-Dibromoethane	16.891	107	18014	3.90 ug/l		97
66) 1-Chlorohexane	17.023	91	29730	3.88 ug/l		98
67) Chlorobenzene	17.430	112	63064	4.07 ug/l		91
68) 1,1,1,2-Tetrachloroethane	17.464	131	22110	4.02 ug/l	#	73
69) Ethylbenzene	17.464	91	102981	4.04 ug/l		100
70) m-Xylene & p-Xylene	17.563	91	160119	8.09 ug/l		99
71) o-Xylene	18.113	91	81010	3.96 ug/l		100
72) Styrene	18.146	104	60572	3.81 ug/l		98
74) Isopropylbenzene	18.509	105	101701	3.95 ug/l		99
75) Bromoform	18.597	173	12276	3.68 ug/l		97
76) 1,1,2,2-Tetrachloroethane	18.707	83	21624	3.97 ug/l		100
78) 1,2,3-Trichloropropane	18.872	110	6337	4.06 ug/l		94
79) trans-1,4-Dichloro-2-b...	18.916	53	7640	3.73 ug/l		90
80) n-Propylbenzene	18.960	91	119761	3.92 ug/l		100
81) Bromobenzene	19.070	156	25191	4.05 ug/l		98
82) 1,3,5-Trimethylbenzene	19.125	105	88075	3.92 ug/l		99
83) 2-Chlorotoluene	19.191	91	79818	4.03 ug/l		99
84) 4-Chlorotoluene	19.235	91	64568	3.86 ug/l		99
85) tert-Butylbenzene	19.510	134	17605	3.98 ug/l		96
86) 1,2,4-Trimethylbenzene	19.555	105	87217	3.92 ug/l		99
87) sec-Butylbenzene	19.731	105	115623	3.96 ug/l		99
88) p-Isopropyltoluene	19.863	119	90316	3.87 ug/l		99
89) 1,3-Dichlorobenzene	20.017	146	48975	3.95 ug/l		100
90) 1,4-Dichlorobenzene	20.116	146	48725	3.99 ug/l		99
91) Benzyl chloride	20.226	91	19977	3.73 ug/l		96
92) n-Butylbenzene	20.270	91	81699	3.89 ug/l		98
93) 1,2-Dichlorobenzene	20.512	146	46280	4.06 ug/l		91
94) 1,2-Dibromo-3-chloropr...	21.326	157	3408	3.40 ug/l		92
95) 1,2,4-Trichlorobenzene	22.339	180	22702	3.58 ug/l		98
96) Hexachlorobutadiene	22.471	225	14668	3.95 ug/l		98
97) Naphthalene	22.724	128	38247	3.83 ug/l		98
98) 1,2,3-Trichlorobenzene	23.032	180	21060	3.63 ug/l		99

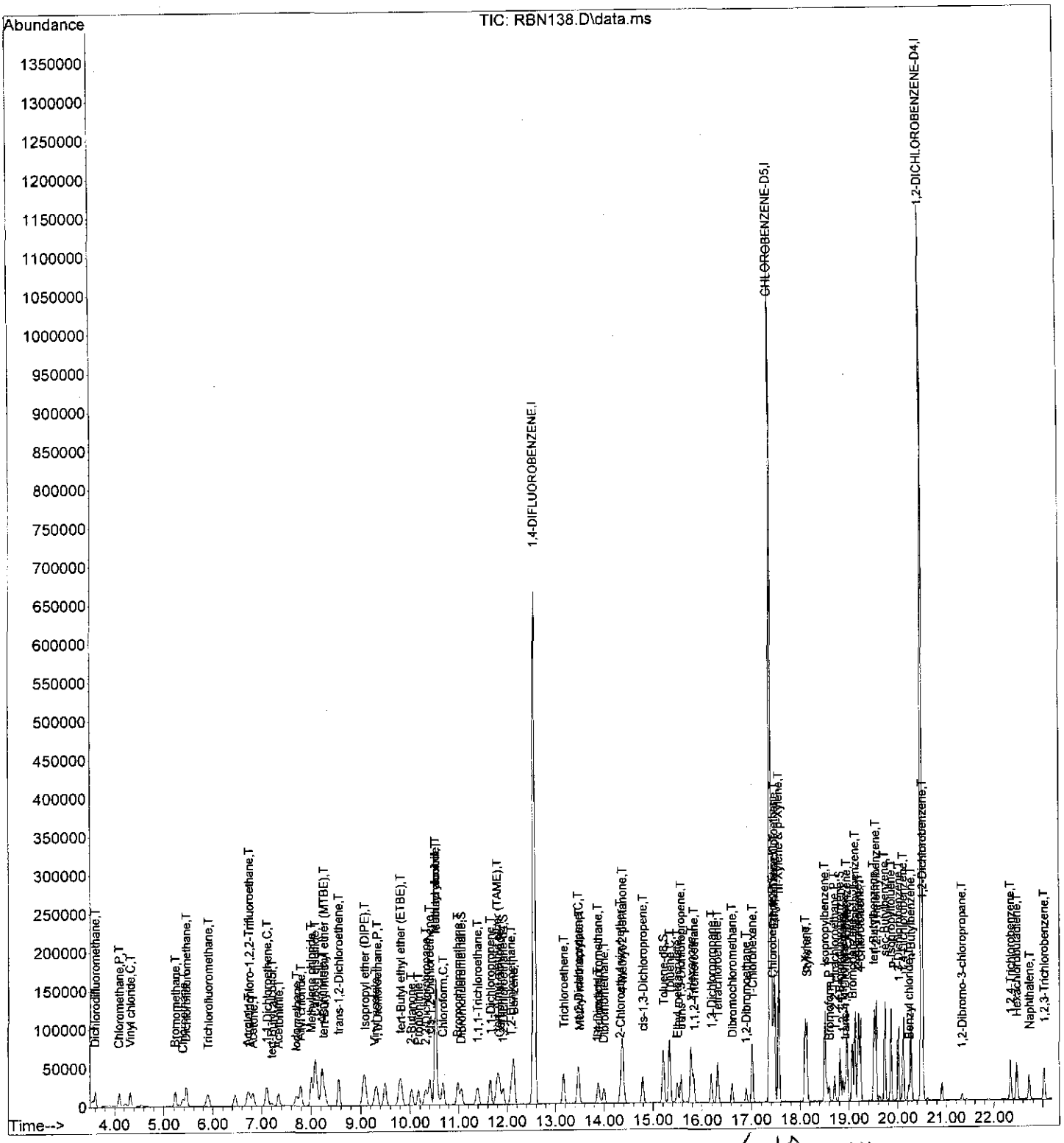
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SU
2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN138.D
Acq On : 9 Feb 2011 11:16 am
Operator : CGM
Sample : VOF4B093
Misc : 4.0ppb 8260/20ppb KET-AA-TBA
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 11 06:49:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN139.D
Acq On : 9 Feb 2011 11:44 am
Operator : CGM
Sample : VOF4B094
Misc : 10ppb 8260/50ppb KET-AA-TBA
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 06:50:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	925581	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	812454	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	375441	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	60792	10.24	ug/l	0.01
Spiked Amount 50.000			Recovery = 20.48%			
40) 1,2-Dichloroethane-d4	11.917	65	61766	10.30	ug/l	0.00
Spiked Amount 50.000			Recovery = 20.60%			
56) Toluene-d8	15.207	98	188956	10.26	ug/l	0.00
Spiked Amount 50.000			Recovery = 20.52%			
77) 4-Bromofluorobenzene	18.817	95	74916	10.36	ug/l	0.00
Spiked Amount 50.000			Recovery = 20.72%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	59543	10.60	ug/l	98
3) Chloromethane	4.092	50	58846	10.03	ug/l	100
4) Vinyl chloride	4.323	62	53687	11.25	ug/l	100
5) Bromomethane	5.226	94	51183	10.19	ug/l	100
6) Chloroethane	5.380	64	50081	10.46	ug/L	99
7) Dichlorofluoromethane	5.446	67	116956	9.75	ug/L	99
8) Trichlorofluoromethane	5.897	101	91840	10.43	ug/l	99
9) Acrolein	6.722	56	35529	52.01	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	37982	10.15	ug/l	96
11) Acetone	6.821	43	81583	50.04	ug/l	100
12) 1,1-Dichloroethene	7.096	61	91982	9.77	ug/L	100
13) tert-Butyl alcohol	7.196	59	27327	49.92	ug/L	93
14) Acetonitrile	7.339	41	62053	96.47	ug/L	100
16) Iodomethane	7.702	142	52566	7.66	ug/L	99
17) Allyl chloride	7.790	76	24685	9.81	ug/L	98
18) Methylene chloride	7.999	49	104754	9.77	ug/l	100
19) Carbon disulfide	8.076	76	188443	9.43	ug/L	100
20) Acrylonitrile	8.219	53	117798	51.79	ug/l	100
21) tert-Butyl methyl ethe...	8.263	73	123474	9.55	ug/L	99
22) trans-1,2-Dichloroethene	8.549	61	99167	9.86	ug/l	99
23) Isopropyl ether (DIPE)	9.066	45	250179	9.72	ug/l	100
24) Vinyl acetate	9.287	43	103351	9.69	ug/l	100
25) 1,1-Dichloroethane	9.320	63	112716	9.79	ug/l	99
26) tert-Butyl ethyl ether...	9.804	59	202060	9.51	ug/l	100
27) 2-Butanone	10.024	43	136242	50.46	ug/l	99
28) Propionitrile	10.167	54	79539	96.01	ug/L	98
29) 2,2-Dichloropropane	10.321	77	75733	9.89	ug/L	99
30) cis-1,2-Dichloroethene	10.409	96	57839	9.81	ug/L	99
31) Isobutyl alcohol	10.519	43	47938	194.35	ug/L	100
32) Methacrylonitrile	10.519	52	98082	99.82	ug/L	98
33) Chloroform	10.673	83	93345	9.86	ug/l	99
35) Bromochloromethane	10.981	49	66519	10.15	ug/l	100
38) 1,1,1-Trichloroethane	11.389	97	80942	9.88	ug/l	99
39) tert-Amyl methyl ether...	11.807	87	29612	9.76	ug/l	98
42) 1,1-Dichloropropene	11.653	110	27022	10.18	ug/L	100
43) Carbon tetrachloride	11.840	119	73529	9.95	ug/l	100
44) 1,2-Dichloroethane	12.082	62	75613	9.91	ug/l	99
45) Benzene	12.137	78	201456	9.81	ug/l	99

SU 2/11/11

2404

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN139.D
Acq On : 9 Feb 2011 11:44 am
Operator : CGM
Sample : VOF4B094
Misc : 10ppb 8260/50ppb KET-AA-TBA
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 06:50:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	60526	10.05 ug/l	99
47) 1,2-Dichloropropane	13.468	63	65543	9.74 ug/L	98
48) Methyl methacrylate	13.480	69	25303	9.36 ug/L	97
50) 1,4-Dioxane	13.865	88	7484	208.22 ug/L	93
51) Bromodichloromethane	13.876	83	66628	9.49 ug/l	98
52) Dibromomethane	13.997	93	30620	10.12 ug/l	97
53) 2-Chloroethyl vinyl ether	14.327	63	30301	9.44 ug/l	98
54) 4-Methyl-2-pentanone	14.371	43	321758	51.24 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	76822	9.57 ug/l	99
57) Toluene	15.339	91	219483	9.71 ug/L	100
58) Ethyl methacrylate	15.493	69	50387	9.45 ug/L	99
59) trans-1,3-Dichloropropene	15.570	75	64489	9.36 ug/l	99
60) 2-Hexanone	15.780	43	206654	51.72 ug/l	100
61) 1,1,2-Trichloroethane	15.824	97	42733	10.13 ug/l	98
62) 1,3-Dichloropropane	16.198	76	70000	9.86 ug/l	100
63) Tetrachloroethene	16.319	164	45789	10.14 ug/l	100
64) Dibromochloromethane	16.616	129	51083	9.46 ug/l	100
65) 1,2-Dibromoethane	16.891	107	44406	9.79 ug/l	99
66) 1-Chlorohexane	17.023	91	76156	10.13 ug/l	98
67) Chlorobenzene	17.430	112	152334	10.02 ug/l	96
68) 1,1,1,2-Tetrachloroethane	17.463	131	53668	9.93 ug/l #	74
69) Ethylbenzene	17.463	91	252640	10.09 ug/l	99
70) m-Xylene & p-Xylene	17.562	91	393633	20.26 ug/l	100
71) o-Xylene	18.113	91	199466	9.94 ug/l	99
72) Styrene	18.146	104	155382	9.95 ug/l	100
74) Isopropylbenzene	18.509	105	254288	10.25 ug/l	99
75) Bromoform	18.597	173	30091	9.36 ug/l	98
76) 1,1,2,2-Tetrachloroethane	18.707	83	52020	9.90 ug/l	98
78) 1,2,3-Trichloropropane	18.872	110	15141	10.06 ug/l	96
79) trans-1,4-Dichloro-2-b...	18.916	53	19097	9.67 ug/l	93
80) n-Propylbenzene	18.960	91	303304	10.29 ug/l	99
81) Bromobenzene	19.070	156	61431	10.24 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	218380	10.08 ug/l	100
83) 2-Chlorotoluene	19.191	91	196112	10.27 ug/l	100
84) 4-Chlorotoluene	19.235	91	161285	9.99 ug/l	100
85) tert-Butylbenzene	19.510	134	44879	10.52 ug/l	98
86) 1,2,4-Trimethylbenzene	19.554	105	215947	10.06 ug/l	99
87) sec-Butylbenzene	19.730	105	289700	10.29 ug/l	100
88) p-Isopropyltoluene	19.863	119	230925	10.26 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	120902	10.10 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	117950	10.01 ug/l	100
91) Benzyl chloride	20.226	91	54004	8.12 ug/l	98
92) n-Butylbenzene	20.270	91	212291	10.48 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	109517	9.97 ug/l	97
94) 1,2-Dibromo-3-chloropr...	21.337	157	8950	9.25 ug/l	97
95) 1,2,4-Trichlorobenzene	22.339	180	59050	9.66 ug/l	98
96) Hexachlorobutadiene	22.471	225	36161	10.09 ug/l	99
97) Naphthalene	22.724	128	107045	8.55 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	54259	9.70 ug/l	98

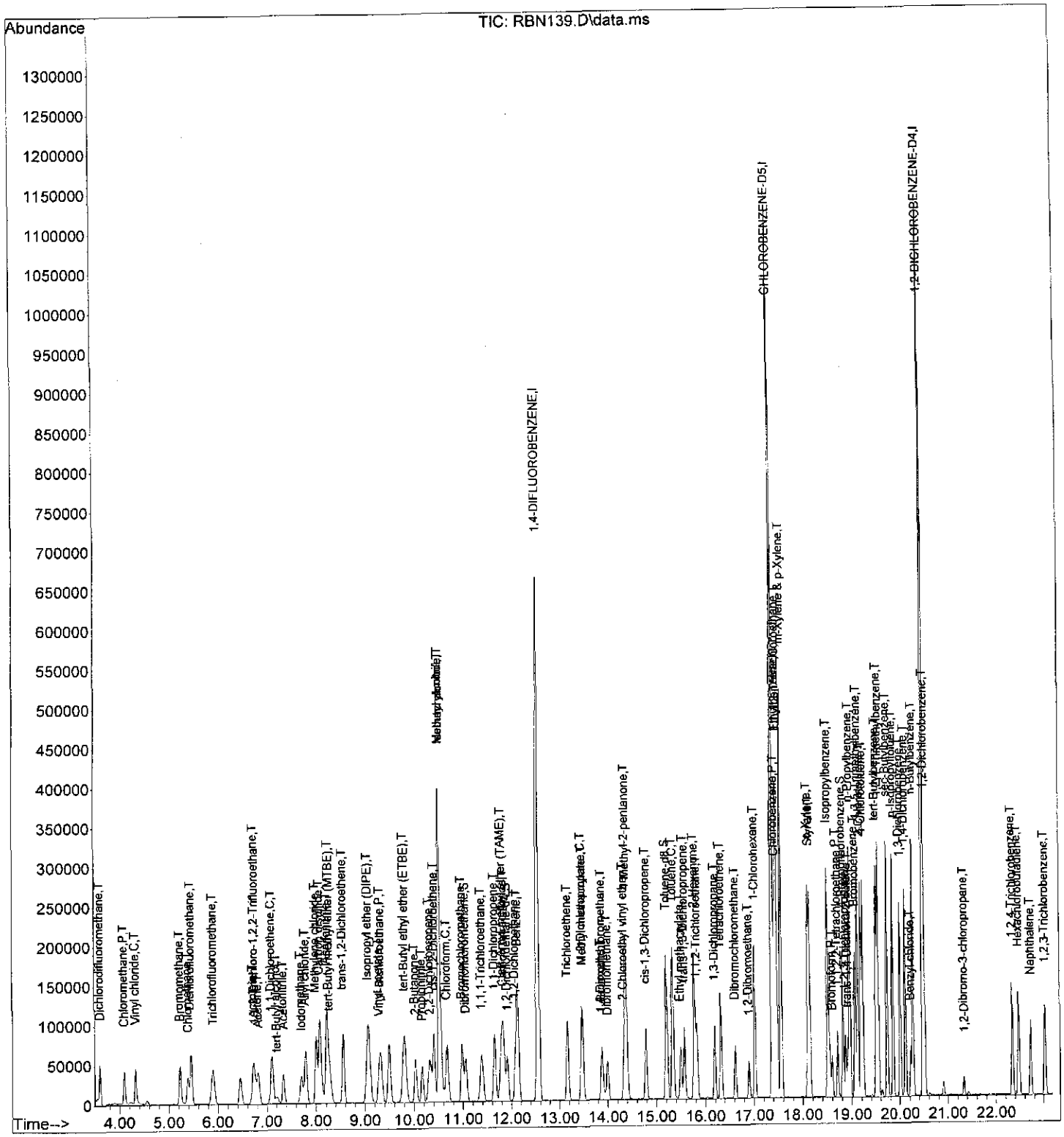
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN139.D
Acq On : 9 Feb 2011 11:44 am
Operator : CGM
Sample : VOF4B094
Misc : 10ppb 8260/50ppb KET-AA-TBA
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 11 06:50:01 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



2406

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN141.D
Acq On : 9 Feb 2011 12:47 pm
Operator : CGM
Sample : VOF4B096
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 06:50:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	955687	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	846550	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	391027	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.047	111	319648	52.15	ug/l	0.00
Spiked Amount 50.000			Recovery = 104.30%			
40) 1,2-Dichloroethane-d4	11.917	65	313275	50.57	ug/l	0.00
Spiked Amount 50.000			Recovery = 101.14%			
56) Toluene-d8	15.207	98	988716	51.54	ug/l	0.00
Spiked Amount 50.000			Recovery = 103.08%			
77) 4-Bromofluorobenzene	18.817	95	385237	51.17	ug/l	0.00
Spiked Amount 50.000			Recovery = 102.34%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	281809	48.58	ug/l	100
3) Chloromethane	4.092	50	263233	43.44	ug/l	100
4) Vinyl chloride	4.312	62	255601	51.86	ug/l	100
5) Bromomethane	5.215	94	237683	45.81	ug/l	100
6) Chloroethane	5.369	64	254395	51.44	ug/L	100
7) Dichlorofluoromethane	5.446	67	620675	50.10	ug/L	100
8) Trichlorofluoromethane	5.886	101	443771	48.79	ug/l	100
9) Acrolein	6.711	56	170273	241.40	ug/l	100
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	191856	49.68	ug/l	100
11) Acetone	6.821	43	361851	228.17	ug/l	100
12) 1,1-Dichloroethene	7.097	61	487851	50.21	ug/L	100
13) tert-Butyl alcohol	7.196	59	122443	216.61	ug/L	100
14) Acetonitrile	7.328	41	313898	472.62	ug/L	100
16) Iodomethane	7.702	142	395198	48.13	ug/L	100
17) Allyl chloride	7.790	76	133755	51.47	ug/L	100
18) Methylene chloride	7.999	49	526731	47.58	ug/l	100
19) Carbon disulfide	8.076	76	952545	46.18	ug/L	100
20) Acrylonitrile	8.208	53	560728	238.77	ug/l	100
21) tert-Butyl methyl ethe...	8.252	73	646328	48.42	ug/L	100
22) trans-1,2-Dichloroethene	8.549	61	524309	50.50	ug/l	100
23) Isopropyl ether (DIPE)	9.066	45	1332988	50.17	ug/l	100
24) Vinyl acetate	9.276	43	549204	49.87	ug/l	100
25) 1,1-Dichloroethane	9.320	63	601873	50.63	ug/l	100
26) tert-Butyl ethyl ether...	9.793	59	1084707	49.42	ug/l	100
27) 2-Butanone	10.024	43	635842	228.08	ug/l	100
28) Propionitrile	10.156	54	404970	473.44	ug/L	100
29) 2,2-Dichloropropane	10.321	77	397087	50.20	ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	309626	50.85	ug/L	100
31) Isobutyl alcohol	10.519	43	247624	972.30	ug/L	100
32) Methacrylonitrile	10.508	52	485935	478.98	ug/L	100
33) Chloroform	10.673	83	489538	50.10	ug/l	100
35) Bromochloromethane	10.970	49	342484	50.60	ug/l	100
38) 1,1,1-Trichloroethane	11.378	97	429851	50.82	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	157943	50.43	ug/l	100
42) 1,1-Dichloropropene	11.653	110	144271	52.18	ug/L	100
43) Carbon tetrachloride	11.840	119	391050	50.81	ug/l	100
44) 1,2-Dichloroethane	12.071	62	395700	49.76	ug/l	100
45) Benzene	12.126	78	1051843	49.15	ug/l	100

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN141.D
Acq On : 9 Feb 2011 12:47 pm
Operator : CGM
Sample : VOF4B096
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 06:50:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.160	130	316271	50.39 ug/l	100
47) 1,2-Dichloropropane	13.469	63	354633	50.57 ug/L	100
48) Methyl methacrylate	13.480	69	137023	48.63 ug/L	100
50) 1,4-Dioxane	13.865	88	37507	1001.47 ug/L	100
51) Bromodichloromethane	13.876	83	370299	50.64 ug/l	100
52) Dibromomethane	13.986	93	158525	50.29 ug/l	100
53) 2-Chloroethyl vinyl ether	14.327	63	164215	49.12 ug/l	100
54) 4-Methyl-2-pentanone	14.371	43	1536993	234.92 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	427314	51.11 ug/l	100
57) Toluene	15.328	91	1147892	48.71 ug/L	100
58) Ethyl methacrylate	15.493	69	279277	50.25 ug/L	100
59) trans-1,3-Dichloropropene	15.571	75	366831	51.11 ug/l	100
60) 2-Hexanone	15.769	43	984065	236.37 ug/l	100
61) 1,1,2-Trichloroethane	15.824	97	216324	49.21 ug/l	100
62) 1,3-Dichloropropane	16.198	76	367223	49.64 ug/l	100
63) Tetrachloroethene	16.319	164	235244	50.02 ug/l	100
64) Dibromochloromethane	16.616	129	287961	51.18 ug/l	100
65) 1,2-Dibromoethane	16.891	107	233680	49.44 ug/l	100
66) 1-Chlorohexane	17.023	91	397613	50.74 ug/l	100
67) Chlorobenzene	17.430	112	798115	50.40 ug/l	100
68) 1,1,1,2-Tetrachloroethane	17.463	131	291217	51.73 ug/l	100
69) Ethylbenzene	17.463	91	1312598	50.31 ug/l	100
70) m-Xylene & p-Xylene	17.562	91	2046993	101.13 ug/l	100
71) o-Xylene	18.113	91	1049429	50.17 ug/l	100
72) Styrene	18.146	104	846926	52.07 ug/l	100
74) Isopropylbenzene	18.509	105	1325538	51.29 ug/l	100
75) Bromoform	18.597	173	170582	50.93 ug/l	100
76) 1,1,2,2-Tetrachloroethane	18.707	83	271261	49.58 ug/l	100
78) 1,2,3-Trichloropropane	18.872	110	77856	49.67 ug/l	100
79) trans-1,4-Dichloro-2-b...	18.916	53	102318	49.73 ug/l	100
80) n-Propylbenzene	18.960	91	1583160	51.55 ug/l	100
81) Bromobenzene	19.070	156	320857	51.37 ug/l	100
82) 1,3,5-Trimethylbenzene	19.125	105	1144020	50.69 ug/l	100
83) 2-Chlorotoluene	19.191	91	1016639	51.11 ug/l	100
84) 4-Chlorotoluene	19.235	91	846713	50.36 ug/l	100
85) tert-Butylbenzene	19.510	134	230781	51.97 ug/l	100
86) 1,2,4-Trimethylbenzene	19.554	105	1142009	51.09 ug/l	100
87) sec-Butylbenzene	19.730	105	1506094	51.35 ug/l	100
88) p-Isopropyltoluene	19.863	119	1206358	51.48 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	629579	50.50 ug/l	100
90) 1,4-Dichlorobenzene	20.116	146	617662	50.33 ug/l	100
91) Benzyl chloride	20.226	91	383844	47.92 ug/l	100
92) n-Butylbenzene	20.270	91	1101514	52.21 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	570025	49.81 ug/l	100
94) 1,2-Dibromo-3-chloropr...	21.337	157	50269	49.90 ug/l	100
95) 1,2,4-Trichlorobenzene	22.339	180	342737	53.82 ug/l	100
96) Hexachlorobutadiene	22.482	225	188555	50.51 ug/l	100
97) Naphthalene	22.724	128	697101	46.33 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	309232	53.10 ug/l	100

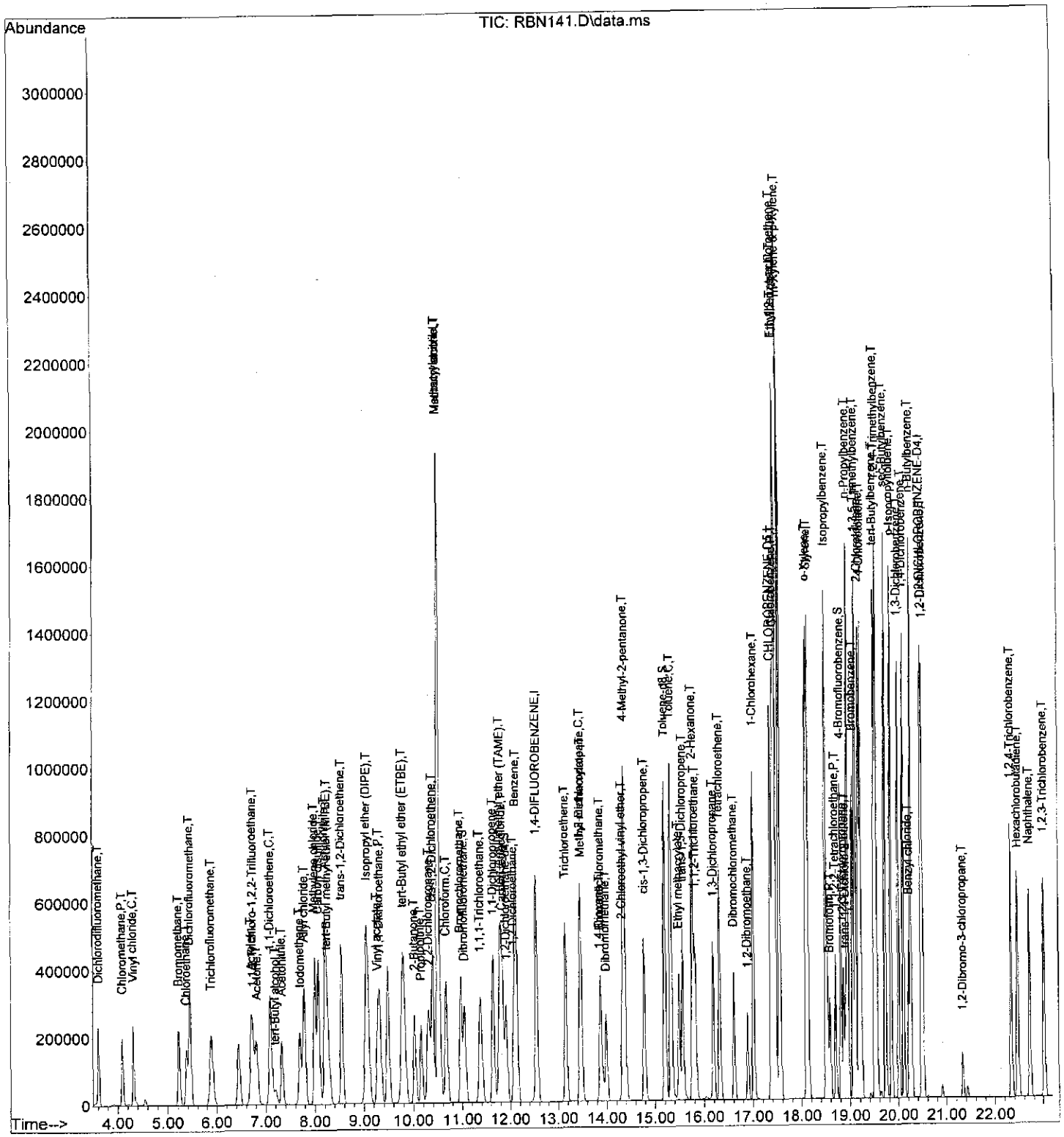
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sw
2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN141.D
Acq On : 9 Feb 2011 12:47 pm
Operator : CGM
Sample : VOF4B096
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 11 06:50:05 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SCR 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN142.D
Acq On : 9 Feb 2011 1:15 pm
Operator : CGM
Sample : VOF4B097
Misc : 100ppb 8260/500ppb KET-AA-TBA
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 06:50:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	970233	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	860785	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	406279	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	690148	110.92	ug/l	0.01
Spiked Amount 50.000			Recovery =	221.84%		
40) 1,2-Dichloroethane-d4	11.917	65	681319	108.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	216.66%		
56) Toluene-d8	15.207	98	2142687	109.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	219.70%		
77) 4-Bromofluorobenzene	18.817	95	836146	106.90	ug/l	0.00
Spiked Amount 50.000			Recovery =	213.80%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	607920	103.22	ug/l	100
3) Chloromethane	4.092	50	601987	97.85	ug/l	99
4) Vinyl chloride	4.312	62	530834	106.09	ug/l	100
5) Bromomethane	5.226	94	498938	94.73	ug/l	100
6) Chloroethane	5.380	64	547170	108.98	ug/L	99
7) Dichlorofluoromethane	5.446	67	1237834	98.42	ug/L	100
8) Trichlorofluoromethane	5.886	101	967613	104.80	ug/l	99
9) Acrolein	6.711	56	375622	524.53	ug/l	100
10) 1,1,2-Trichloro-1,2,2-...	6.733	151	387906	98.93	ug/l	99
11) Acetone	6.821	43	791182	496.05	ug/l	100
12) 1,1-Dichloroethene	7.097	61	969660	98.29	ug/L	100
13) tert-Butyl alcohol	7.196	59	274158	477.73	ug/L	98
14) Acetonitrile	7.328	41	647683	960.57	ug/L	99
16) Iodomethane	7.702	142	834294	98.76	ug/L	100
17) Allyl chloride	7.790	76	271329	102.84	ug/L	99
18) Methylene chloride	7.999	49	1041840	92.71	ug/l	100
19) Carbon disulfide	8.076	76	2060508	98.41	ug/L	100
20) Acrylonitrile	8.219	53	1215369	509.78	ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	1338632	98.78	ug/L	99
22) trans-1,2-Dichloroethene	8.549	61	1043356	98.98	ug/l	100
23) Isopropyl ether (DIPE)	9.066	45	2689428	99.70	ug/l	100
24) Vinyl acetate	9.276	43	1221955	109.31	ug/l	100
25) 1,1-Dichloroethane	9.320	63	1198398	99.31	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	2218949	99.58	ug/l	100
27) 2-Butanone	10.024	43	1417314	500.78	ug/l	99
28) Propionitrile	10.167	54	849515	978.26	ug/L	100
29) 2,2-Dichloropropane	10.321	77	820679	102.19	ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	615715	99.60	ug/L	99
31) Isobutyl alcohol	10.519	43	530592	2052.14	ug/L	99
32) Methacrylonitrile	10.519	52	996568	967.59	ug/L	99
33) Chloroform	10.673	83	977533	98.55	ug/l	99
35) Bromochloromethane	10.981	49	679713	98.92	ug/l	99
38) 1,1,1-Trichloroethane	11.389	97	863355	100.55	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	329524	103.65	ug/l	97
42) 1,1-Dichloropropene	11.653	110	289592	103.01	ug/L	100
43) Carbon tetrachloride	11.840	119	793356	101.37	ug/l	100
44) 1,2-Dichloroethane	12.082	62	796363	98.49	ug/l	99
45) Benzene	12.126	78	2091067	96.10	ug/l	100

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN142.D
Acq On : 9 Feb 2011 1:15 pm
Operator : CGM
Sample : VOF4B097
Misc : 100ppb 8260/500ppb KET-AA-TBA
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 06:50:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	630338	98.77 ug/l	100
47) 1,2-Dichloropropane	13.469	63	709089	99.44 ug/L	98
48) Methyl methacrylate	13.480	69	289262	100.95 ug/L	96
50) 1,4-Dioxane	13.865	88	80040	2101.80 ug/L	97
51) Bromodichloromethane	13.876	83	749843	100.86 ug/l	100
52) Dibromomethane	13.997	93	325433	101.54 ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	345709	101.71 ug/l	100
54) 4-Methyl-2-pentanone	14.371	43	3394354	510.22 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	873257	102.72 ug/l	100
57) Toluene	15.339	91	2278948	95.11 ug/L	100
58) Ethyl methacrylate	15.493	69	591766	104.72 ug/L	99
59) trans-1,3-Dichloropropene	15.570	75	754069	103.33 ug/l	100
60) 2-Hexanone	15.780	43	2211795	522.48 ug/l	99
61) 1,1,2-Trichloroethane	15.824	97	441149	98.69 ug/l	99
62) 1,3-Dichloropropane	16.198	76	738891	98.22 ug/l	100
63) Tetrachloroethene	16.319	164	467394	97.74 ug/l	99
64) Dibromochloromethane	16.616	129	597695	104.47 ug/l	100
65) 1,2-Dibromoethane	16.891	107	482231	100.33 ug/l	100
66) 1-Chlorohexane	17.023	91	795595	99.85 ug/l	100
67) Chlorobenzene	17.430	112	1588419	98.64 ug/l	99
68) 1,1,1,2-Tetrachloroethane	17.463	131	590769	103.21 ug/l	99
69) Ethylbenzene	17.463	91	2618499	98.70 ug/l	100
70) m-Xylene & p-Xylene	17.562	91	4070111	197.76 ug/l	100
71) o-Xylene	18.113	91	2120100	99.68 ug/l	100
72) Styrene	18.146	104	1708506	103.31 ug/l	99
74) Isopropylbenzene	18.509	105	2666270	99.29 ug/l	100
75) Bromoform	18.597	173	364035	104.60 ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	555888	97.79 ug/l	99
78) 1,2,3-Trichloropropane	18.872	110	158567	97.36 ug/l	99
79) trans-1,4-Dichloro-2-b...	18.916	53	215264	100.70 ug/l	98
80) n-Propylbenzene	18.960	91	3187303	99.88 ug/l	100
81) Bromobenzene	19.070	156	644381	99.30 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	2316289	98.77 ug/l	100
83) 2-Chlorotoluene	19.191	91	2027065	98.09 ug/l	100
84) 4-Chlorotoluene	19.235	91	1706732	97.71 ug/l	100
85) tert-Butylbenzene	19.510	134	465113	100.80 ug/l	99
86) 1,2,4-Trimethylbenzene	19.554	105	2306883	99.33 ug/l	100
87) sec-Butylbenzene	19.730	105	3044116	99.89 ug/l	100
88) p-Isopropyltoluene	19.863	119	2442042	100.30 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	1263767	97.56 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	1246787	97.78 ug/l	100
91) Benzyl chloride	20.226	91	875857	103.70 ug/l	100
92) n-Butylbenzene	20.270	91	2247713	102.55 ug/l	99
93) 1,2-Dichlorobenzene	20.512	146	1154442	97.09 ug/l	100
94) 1,2-Dibromo-3-chloropr...	21.337	157	111018	106.07 ug/l	100
95) 1,2,4-Trichlorobenzene	22.339	180	714368	107.97 ug/l	99
96) Hexachlorobutadiene	22.471	225	396149	102.14 ug/l	99
97) Naphthalene	22.724	128	1555766	97.96 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	655511	108.33 ug/l	100

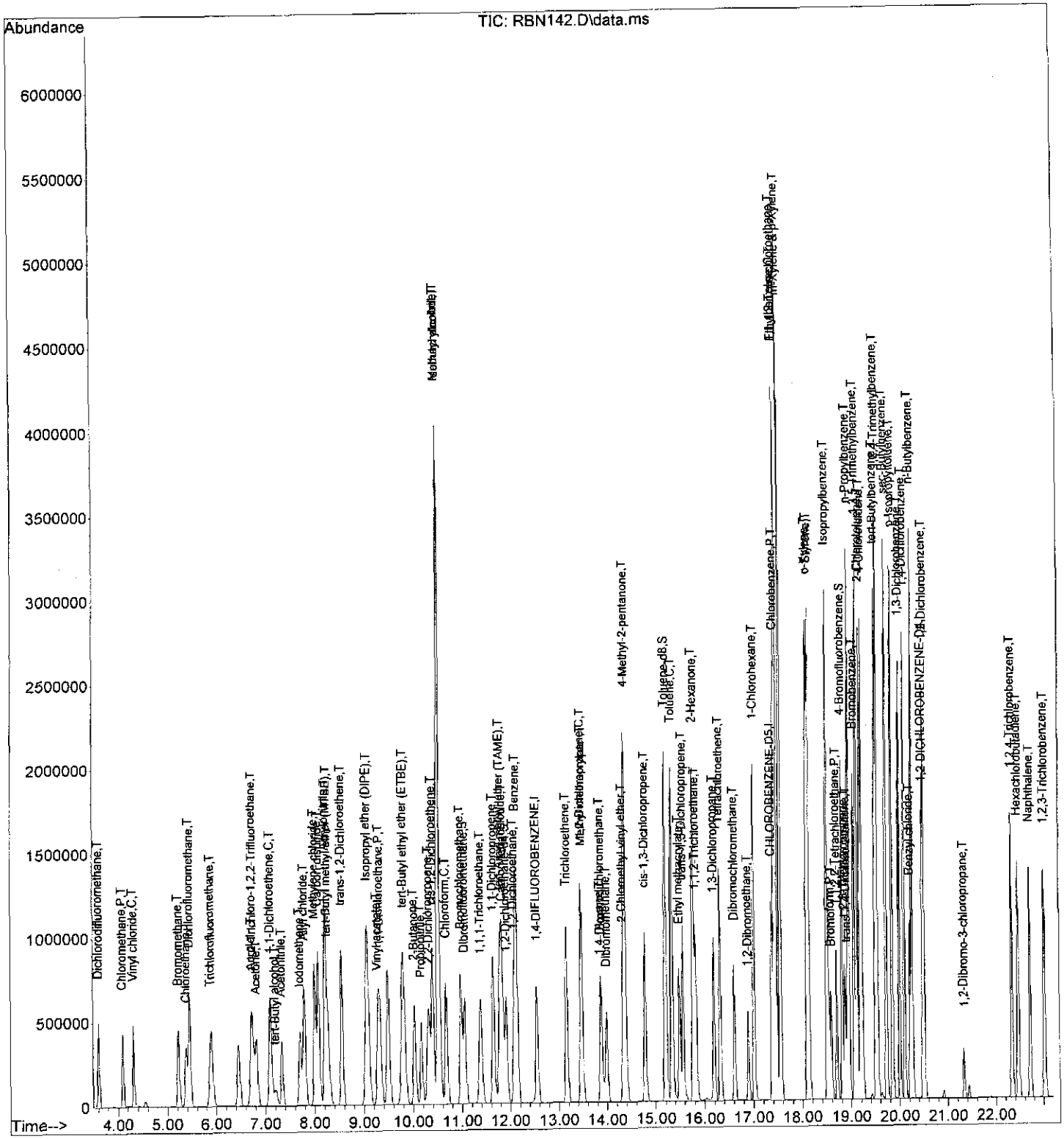
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN142.D
Acq On : 9 Feb 2011 1:15 pm
Operator : CGM
Sample : VOF4B097
Misc : 100ppb 8260/500ppb KET-AA-TBA
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 11 06:50:07 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN143.D
Acq On : 9 Feb 2011 1:43 pm
Operator : CGM
Sample : VOF4B098
Misc : 200ppb 8260/1000ppb KET-AA-TBA
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 06:50:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	970929	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	866471	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	412782	50.00	ug/l	# 0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.059	111	1356366	217.83	ug/l	0.01
Spiked Amount 50.000			Recovery =	435.66%		
40) 1,2-Dichloroethane-d4	11.917	65	1342733	213.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	426.70%		
56) Toluene-d8	15.207	98	4142516	210.99	ug/l	0.00
Spiked Amount 50.000			Recovery =	421.98%		
77) 4-Bromofluorobenzene	18.817	95	1635700	205.83	ug/l	0.00
Spiked Amount 50.000			Recovery =	411.66%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	1158187	196.52	ug/l	100
3) Chloromethane	4.092	50	1277207	207.45	ug/l	99
4) Vinyl chloride	4.312	62	968301	193.37	ug/l	100
5) Bromomethane	5.215	94	1011057	191.83	ug/l	100
6) Chloroethane	5.369	64	1055426	210.06	ug/L	100
7) Dichlorofluoromethane	5.446	67	2569473	204.15	ug/L	100
8) Trichlorofluoromethane	5.886	101	1867488	202.11	ug/l	99
9) Acrolein	6.711	56	802826	1120.29	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.745	151	790753	201.54	ug/l	100
11) Acetone	6.822	43	1678277	1055.97	ug/l	100
12) 1,1-Dichloroethene	7.097	61	2012722	203.88	ug/L	100
13) tert-Butyl alcohol	7.207	59	621436	1082.09	ug/L	98
14) Acetonitrile	7.339	41	1426411	2113.98	ug/L	100
16) Iodomethane	7.702	142	1761159	206.98	ug/L	100
17) Allyl chloride	7.790	76	555079	210.23	ug/L	100
18) Methylene chloride	7.999	49	2146894	190.91	ug/l	99
19) Carbon disulfide	8.076	76	4048296	193.20	ug/L	100
20) Acrylonitrile	8.219	53	2547722	1067.86	ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	2853588	210.41	ug/L	100
22) trans-1,2-Dichloroethene	8.549	61	2152886	204.10	ug/l	100
23) Isopropyl ether (DIPE)	9.067	45	5621358	208.24	ug/l	100
24) Vinyl acetate	9.276	43	2476020	221.32	ug/l	100
25) 1,1-Dichloroethane	9.320	63	2459314	203.65	ug/l	100
26) tert-Butyl ethyl ether...	9.793	59	4704859	210.98	ug/l	100
27) 2-Butanone	10.024	43	3016586	1065.09	ug/l	99
28) Propionitrile	10.167	54	1868708	2150.37	ug/L	100
29) 2,2-Dichloropropane	10.321	77	1689747	210.26	ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	1272641	205.72	ug/L	99
31) Isobutyl alcohol	10.530	43	1155383	4465.40	ug/L	99
32) Methacrylonitrile	10.519	52	2081004	2019.04	ug/L	99
33) Chloroform	10.673	83	2022165	203.71	ug/l	99
35) Bromochloromethane	10.981	49	1405955	204.47	ug/l	99
38) 1,1,1-Trichloroethane	11.378	97	1780284	207.18	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	705874	221.86	ug/l	96
42) 1,1-Dichloropropene	11.653	110	591090	208.88	ug/L	99
43) Carbon tetrachloride	11.840	119	1631257	207.07	ug/l	100
44) 1,2-Dichloroethane	12.082	62	1664586	204.52	ug/l	100
45) Benzene	12.126	78	4296673	196.16	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN143.D
Acq On : 9 Feb 2011 1:43 pm
Operator : CGM
Sample : VOF4B098
Misc : 200ppb 8260/1000ppb KET-AA-TBA
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 06:50:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Trichloroethene	13.161	130	1296778	201.87	ug/l	100
47) 1,2-Dichloropropane	13.469	63	1470990	204.93	ug/L	96
48) Methyl methacrylate	13.480	69	637057	220.88	ug/L	91
50) 1,4-Dioxane	13.865	88	170414	4445.60	ug/L	96
51) Bromodichloromethane	13.876	83	1589037	212.33	ug/l	100
52) Dibromomethane	13.997	93	686365	212.75	ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	751252	219.57	ug/l	100
54) 4-Methyl-2-pentanone	14.371	43	7140901	1066.33	ug/l	99
55) cis-1,3-Dichloropropene	14.789	75	1833163	214.21	ug/l	99
57) Toluene	15.340	91	4685559	194.27	ug/L	100
58) Ethyl methacrylate	15.494	69	1299219	228.39	ug/L	98
59) trans-1,3-Dichloropropene	15.571	75	1605142	218.50	ug/l	99
60) 2-Hexanone	15.780	43	4704703	1104.07	ug/l	99
61) 1,1,2-Trichloroethane	15.824	97	928233	206.29	ug/l	99
62) 1,3-Dichloropropane	16.198	76	1564551	206.61	ug/l	99
63) Tetrachloroethene	16.319	164	954554	198.30	ug/l	99
64) Dibromochloromethane	16.616	129	1286550	223.40	ug/l	100
65) 1,2-Dibromoethane	16.891	107	1026274	212.12	ug/l	100
66) 1-Chlorohexane	17.023	91	1627763	202.96	ug/l	99
67) Chlorobenzene	17.431	112	3256911	200.92	ug/l	99
68) 1,1,1,2-Tetrachloroethane	17.464	131	1210808	210.15	ug/l	99
69) Ethylbenzene	17.464	91	5328990	199.56	ug/l	99
70) m-Xylene & p-Xylene	17.563	91	8301328	400.70	ug/l	99
71) o-Xylene	18.113	91	4395936	205.34	ug/l	99
72) Styrene	18.146	104	3564210	214.10	ug/l	99
74) Isopropylbenzene	18.509	105	5488009	201.15	ug/l	100
75) Bromoform	18.597	173	794619	224.73	ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	1221866	211.56	ug/l	99
78) 1,2,3-Trichloropropane	18.872	110	349659	211.31	ug/l	100
79) trans-1,4-Dichloro-2-b...	18.916	53	482104	221.98	ug/l	97
80) n-Propylbenzene	18.960	91	6521916	201.16	ug/l	100
81) Bromobenzene	19.070	156	1346334	204.19	ug/l	100
82) 1,3,5-Trimethylbenzene	19.125	105	4778235	200.55	ug/l	99
83) 2-Chlorotoluene	19.191	91	4161164	198.18	ug/l	99
84) 4-Chlorotoluene	19.235	91	3566773	200.97	ug/l	99
85) tert-Butylbenzene	19.510	134	950600	202.77	ug/l	98
86) 1,2,4-Trimethylbenzene	19.555	105	4778857	202.54	ug/l	100
87) sec-Butylbenzene	19.731	105	6208510	200.52	ug/l	100
88) p-Isopropyltoluene	19.863	119	5025798	203.18	ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	2633839	200.13	ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	2600851	200.77	ug/l	100
91) Benzyl chloride	20.226	91	2033161	235.28	ug/l	100
92) n-Butylbenzene	20.270	91	4637564	208.24	ug/l	99
93) 1,2-Dichlorobenzene	20.512	146	2417979	200.14	ug/l	99
94) 1,2-Dibromo-3-chloropr...	21.337	157	247155	232.41	ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	1483523	220.68	ug/l	99
96) Hexachlorobutadiene	22.471	225	803434	203.88	ug/l	99
97) Naphthalene	22.724	128	3402203	209.28	ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	1355226	220.44	ug/l	100

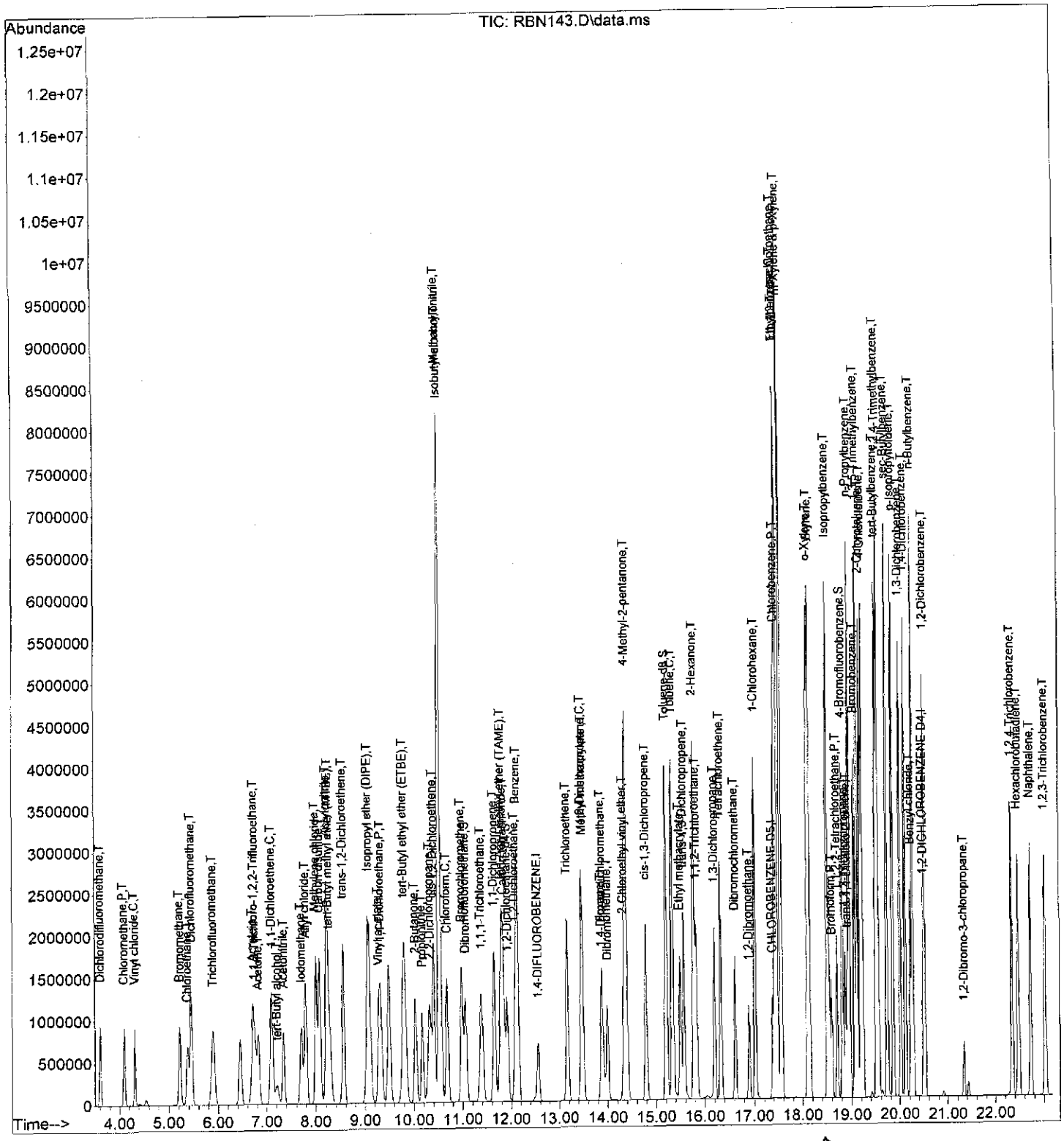
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN143.D
Acq On : 9 Feb 2011 1:43 pm
Operator : CGM
Sample : VOF4B098
Misc : 200ppb 8260/1000ppb KET-AA-TBA
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 11 06:50:09 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN144.D
Acq On : 9 Feb 2011 2:11 pm
Operator : CGM
Sample : VOF4B099
Misc : 300ppb 8260/1500ppb KET-AA-TBA
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:50:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	974041	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	860469	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	410362	50.00	ug/l	# 0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	2025490	324.25	ug/l	0.01
Spiked Amount 50.000			Recovery	=	648.50%	
40) 1,2-Dichloroethane-d4	11.917	65	1986583	314.65	ug/l	0.00
Spiked Amount 50.000			Recovery	=	629.30%	
56) Toluene-d8	15.207	98	6145173	315.17	ug/l	0.00
Spiked Amount 50.000			Recovery	=	630.34%	
77) 4-Bromofluorobenzene	18.817	95	2406651	304.63	ug/l	0.00
Spiked Amount 50.000			Recovery	=	609.26%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	1758321	297.39	ug/l	100
3) Chloromethane	4.092	50	1979365	320.47	ug/l	99
4) Vinyl chloride	4.312	62	1398693	278.43	ug/l	99
5) Bromomethane	5.215	94	1563163	295.63	ug/l	99
6) Chloroethane	5.369	64	1588293	315.10	ug/L	99
7) Dichlorofluoromethane	5.446	67	3838111	303.98	ug/L	100
8) Trichlorofluoromethane	5.886	101	2842263	306.63	ug/l	99
9) Acrolein	6.711	56	1143191	1590.16	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.733	151	1201582	305.26	ug/l	99
11) Acetone	6.821	43	2335700	1466.48	ug/l	100
12) 1,1-Dichloroethene	7.097	61	3029867	305.94	ug/L	100
13) tert-Butyl alcohol	7.207	59	869868	1509.84	ug/L	98
14) Acetonitrile	7.339	41	2033433	3003.97	ug/L	100
16) Iodomethane	7.702	142	2594953	303.43	ug/L	100
17) Allyl chloride	7.790	76	818137	308.88	ug/L	99
18) Methylene chloride	7.999	49	3154499	279.61	ug/l	100
19) Carbon disulfide	8.076	76	6114592	290.88	ug/L	100
20) Acrylonitrile	8.219	53	3552451	1484.22	ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	4127344	303.36	ug/L	100
22) trans-1,2-Dichloroethene	8.549	61	3206725	303.03	ug/l	100
23) Isopropyl ether (DIPE)	9.066	45	8201617	302.85	ug/l	100
24) Vinyl acetate	9.276	43	3638419	324.19	ug/l	100
25) 1,1-Dichloroethane	9.320	63	3666161	302.62	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	6875878	307.35	ug/l	100
27) 2-Butanone	10.024	43	4190999	1475.03	ug/l	99
28) Propionitrile	10.167	54	2620944	3006.36	ug/L	100
29) 2,2-Dichloropropane	10.321	77	2561738	317.75	ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	1881302	303.13	ug/L	99
31) Isobutyl alcohol	10.530	43	1564172	6026.00	ug/L	99
32) Methacrylonitrile	10.519	52	2888874	2793.90	ug/L	99
33) Chloroform	10.673	83	2995514	300.80	ug/l	99
35) Bromochloromethane	10.981	49	2057314	298.25	ug/l	100
38) 1,1,1-Trichloroethane	11.389	97	2681976	311.12	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	1020157	319.62	ug/l	96
42) 1,1-Dichloropropene	11.653	110	887160	315.70	ug/L	100
43) Carbon tetrachloride	11.840	119	2464875	315.06	ug/l	100
44) 1,2-Dichloroethane	12.082	62	2423683	299.86	ug/l	100
45) Benzene	12.126	78	6357960	292.29	ug/l	99

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN144.D
Acq On : 9 Feb 2011 2:11 pm
Operator : CGM
Sample : VOF4B099
Misc : 300ppb 8260/1500ppb KET-AA-TBA
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:50:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Trichloroethene	13.160	130	1916913	300.49	ug/l	99
47) 1,2-Dichloropropane	13.469	63	2163444	303.50	ug/L	98
48) Methyl methacrylate	13.480	69	904318	315.73	ug/L	92
50) 1,4-Dioxane	13.865	88	242422	6368.19	ug/L	97
51) Bromodichloromethane	13.876	83	2347443	315.85	ug/l	100
52) Dibromomethane	13.997	93	990962	309.31	ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	1072407	315.62	ug/l	99
54) 4-Methyl-2-pentanone	14.371	43	9835025	1478.89	ug/l	99
55) cis-1,3-Dichloropropene	14.789	75	2704511	318.24	ug/l	99
57) Toluene	15.339	91	6868024	286.75	ug/L	100
58) Ethyl methacrylate	15.493	69	1866475	330.40	ug/L	97
59) trans-1,3-Dichloropropene	15.571	75	2348192	321.88	ug/l	99
60) 2-Hexanone	15.780	43	6491743	1534.07	ug/l	98
61) 1,1,2-Trichloroethane	15.824	97	1334349	298.61	ug/l	99
62) 1,3-Dichloropropane	16.198	76	2253985	299.73	ug/l	99
63) Tetrachloroethene	16.319	164	1413311	295.64	ug/l	99
64) Dibromochloromethane	16.616	129	1873751	327.63	ug/l	100
65) 1,2-Dibromoethane	16.891	107	1484048	308.87	ug/l	100
66) 1-Chlorohexane	17.023	91	2404037	301.84	ug/l	99
67) Chlorobenzene	17.430	112	4692755	291.52	ug/l	99
68) 1,1,1,2-Tetrachloroethane	17.463	131	1732089	302.72	ug/l	99
69) Ethylbenzene	17.463	91	7733053	291.60	ug/l	98
70) m-Xylene & p-Xylene	17.562	91	11795179	573.32	ug/l	99
71) o-Xylene	18.113	91	6388514	300.49	ug/l	98
72) Styrene	18.146	104	5155428	311.84	ug/l	99
74) Isopropylbenzene	18.509	105	8009456	295.30	ug/l	99
75) Bromoform	18.597	173	1152143	327.77	ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	1763453	307.13	ug/l	100
78) 1,2,3-Trichloropropane	18.883	110	499208	303.47	ug/l	99
79) trans-1,4-Dichloro-2-b...	18.927	53	700381	324.38	ug/l	97
80) n-Propylbenzene	18.960	91	9498359	294.69	ug/l	99
81) Bromobenzene	19.070	156	1940008	295.97	ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	6992772	295.22	ug/l	99
83) 2-Chlorotoluene	19.191	91	5971422	286.07	ug/l	99
84) 4-Chlorotoluene	19.235	91	5276739	299.08	ug/l	98
85) tert-Butylbenzene	19.510	134	1368469	293.62	ug/l	96
86) 1,2,4-Trimethylbenzene	19.554	105	6956579	296.57	ug/l	99
87) sec-Butylbenzene	19.730	105	9091608	295.38	ug/l	100
88) p-Isopropyltoluene	19.863	119	7338905	298.44	ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	3827027	292.50	ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	3778265	293.38	ug/l	100
91) Benzyl chloride	20.226	91	3587131	416.55	ug/l	94
92) n-Butylbenzene	20.270	91	6226453	281.24	ug/l	95
93) 1,2-Dichlorobenzene	20.512	146	3513067	292.50	ug/l	100
94) 1,2-Dibromo-3-chloropr...	21.337	157	350075	331.13	ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	2124763	317.94	ug/l	99
96) Hexachlorobutadiene	22.471	225	1181394	301.56	ug/l	99
97) Naphthalene	22.724	128	4824657	297.96	ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	1915841	313.47	ug/l	100

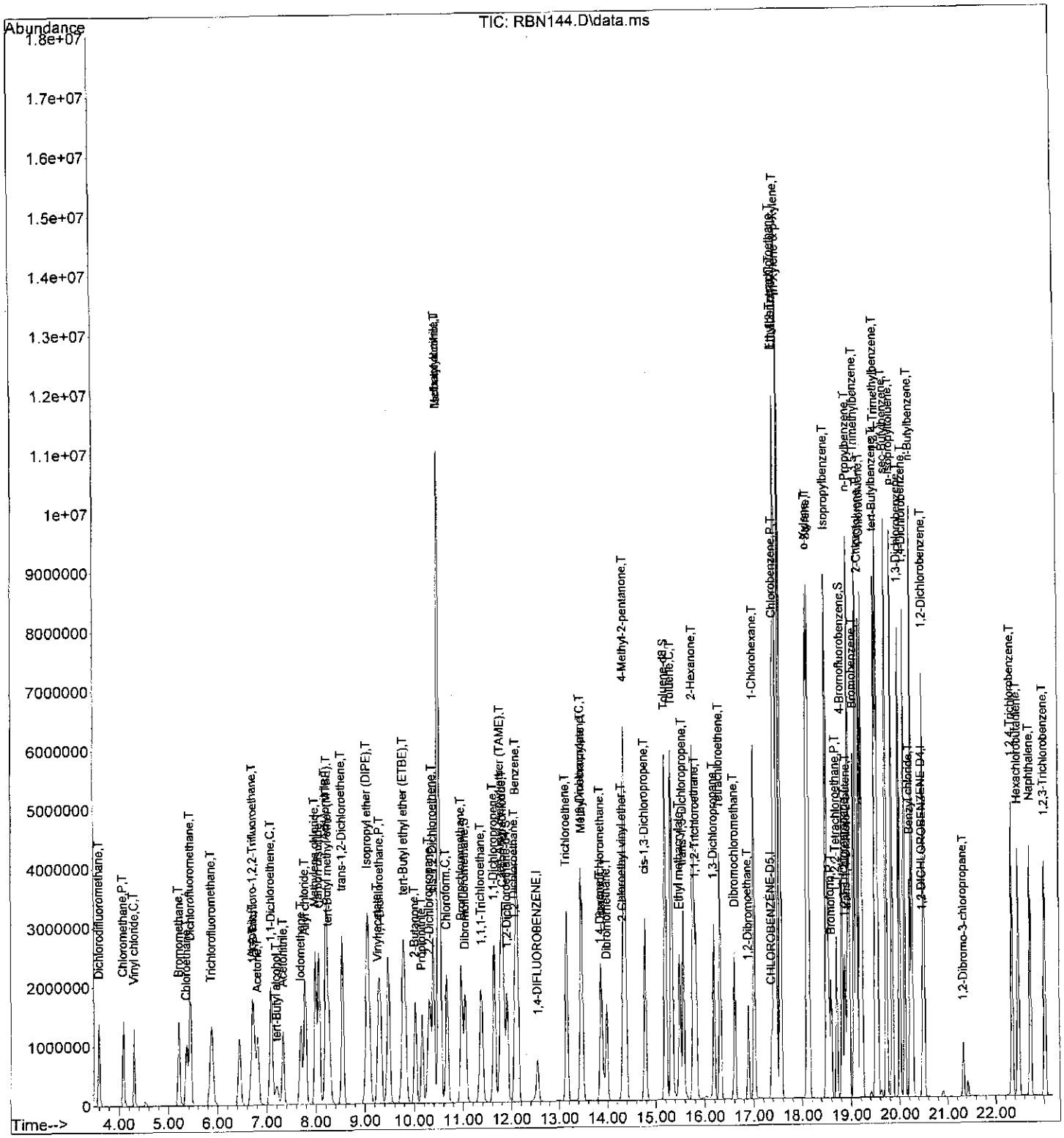
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN144.D
Acq On : 9 Feb 2011 2:11 pm
Operator : CGM
Sample : VOF4B099
Misc : 300ppb 8260/1500ppb KET-AA-TBA
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Feb 11 06:50:12 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



2418

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN145.D
Acq On : 9 Feb 2011 2:39 pm
Operator : CGM
Sample : VOF4B0910
Misc : 500ppb 8260/2500ppb KET-AA-TBA
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 06:50:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) 1,4-DIFLUOROBENZENE	12.555	114	1003027	50.00 ug/l	0.00
41) CHLOROBENZENE-D5	17.386	117	881584	50.00 ug/l	0.01
73) 1,2-DICHLOROBENZENE-D4	20.490	152	408567	50.00 ug/l	# 0.00
System Monitoring Compounds					
37) Dibromofluoromethane	11.058	111	18296	2.84 ug/l	0.01
Spiked Amount 50.000			Recovery	= 5.68%	
40) 1,2-Dichloroethane-d4	11.917	65	20587	3.17 ug/l	0.00
Spiked Amount 50.000			Recovery	= 6.34%	
56) Toluene-d8	15.207	98	56669	2.84 ug/l	0.00
Spiked Amount 50.000			Recovery	= 5.68%	
77) 4-Bromofluorobenzene	18.817	95	30394	3.86 ug/l	0.00
Spiked Amount 50.000			Recovery	= 7.72%	
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.608	85	2851986	468.43 ug/l	100
3) Chloromethane	4.092	50	3321138	522.18 ug/l	98
4) Vinyl chloride	4.312	62	2204217	426.10 ug/l	100
5) Bromomethane	5.204	94	2598423	477.22 ug/l	100
6) Chloroethane	5.358	64	2598688	500.66 ug/L	93
7) Dichlorofluoromethane	5.435	67	6485638	498.82 ug/L	100
8) Trichlorofluoromethane	5.875	101	4598670	481.78 ug/l	100
9) Acrolein	6.711	56	1975867	2668.97 ug/l	100
10) 1,1,2-Trichloro-1,2,2-...	6.733	151	1991386	491.29 ug/l	99
11) Acetone	6.821	43	4100948	2503.23 ug/l	99
12) 1,1-Dichloroethene	7.085	61	5104926	500.56 ug/L	100
13) tert-Butyl alcohol	7.218	59	1569108	2644.81 ug/L	95
14) Acetonitrile	7.339	41	3552119	5095.87 ug/L	100
16) Iodomethane	7.702	142	4370609	495.52 ug/L	100
17) Allyl chloride	7.790	76	1374784	504.03 ug/L	99
18) Methylene chloride	7.999	49	5275202	454.07 ug/l	99
19) Carbon disulfide	8.065	76	73764	3.41 ug/L	99
20) Acrylonitrile	8.219	53	6168157	2502.60 ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	7099851	506.76 ug/L	99
22) trans-1,2-Dichloroethene	8.549	61	5397985	495.37 ug/l	99
23) Isopropyl ether (DIPE)	9.066	45	13762264	493.50 ug/l	99
24) Vinyl acetate	9.276	43	6029254	521.69 ug/l	100
25) 1,1-Dichloroethane	9.320	63	6139030	492.09 ug/l	100
26) tert-Butyl ethyl ether...	9.793	59	11759610	510.47 ug/l	99
27) 2-Butanone	10.024	43	7460463	2549.84 ug/l	99
28) Propionitrile	10.178	54	4584916	5107.15 ug/L	100
29) 2,2-Dichloropropane	10.321	77	4305823	518.64 ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	3159831	494.43 ug/L	98
31) Isobutyl alcohol	10.541	43	2490150	9316.12 ug/L	98
32) Methacrylonitrile	10.530	52	4728621	4441.00 ug/L	97
33) Chloroform	10.684	83	5068226	494.24 ug/l	99
35) Bromochloromethane	10.981	49	3457902	486.80 ug/l	99
38) 1,1,1-Trichloroethane	11.378	97	4517206	508.87 ug/l	99
39) tert-Amyl methyl ether...	11.796	87	1743615	530.49 ug/l	95
42) 1,1-Dichloropropene	11.653	110	1475938	512.63 ug/L	100
43) Carbon tetrachloride	11.840	119	4119448	513.94 ug/l	100
44) 1,2-Dichloroethane	12.082	62	4137207	499.61 ug/l	100
45) Benzene	12.126	78	10616040	476.35 ug/l	99

SU 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN145.D
Acq On : 9 Feb 2011 2:39 pm
Operator : CGM
Sample : VOF4B0910
Misc : 500ppb 8260/2500ppb KET-AA-TBA
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 06:50:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.160	130	3199197	489.48 ug/l	99
47) 1,2-Dichloropropane	13.469	63	3607179	493.91 ug/L	97
48) Methyl methacrylate	13.491	69	1578603	537.95 ug/L	88
50) 1,4-Dioxane	13.876	88	416804	10686.80 ug/L	97
51) Bromodichloromethane	13.876	83	3985436	523.40 ug/l	100
52) Dibromomethane	13.997	93	1682658	512.63 ug/l	100
53) 2-Chloroethyl vinyl ether	14.327	63	1870297	537.26 ug/l	99
54) 4-Methyl-2-pentanone	14.371	43	16524841	2425.32 ug/l	98
55) cis-1,3-Dichloropropene	14.789	75	4573295	525.24 ug/l	99
57) Toluene	15.339	91	11428766	465.74 ug/L	100
58) Ethyl methacrylate	15.493	69	3237655	559.40 ug/L	97
59) trans-1,3-Dichloropropene	15.570	75	4009564	536.45 ug/l	98
60) 2-Hexanone	15.780	43	10838162	2499.83 ug/l	96
61) 1,1,2-Trichloroethane	15.835	97	2257263	493.06 ug/l	99
62) 1,3-Dichloropropane	16.198	76	3846662	499.26 ug/l	100
63) Tetrachloroethene	16.319	164	2339112	477.59 ug/l	99
64) Dibromochloromethane	16.616	129	3199967	546.13 ug/l	100
65) 1,2-Dibromoethane	16.891	107	2547320	517.47 ug/l	100
66) 1-Chlorohexane	17.023	91	3957711	485.01 ug/l	99
67) Chlorobenzene	17.430	112	7570220	459.01 ug/l	97
68) 1,1,1,2-Tetrachloroethane	17.474	131	2779922	474.21 ug/l	99
69) Ethylbenzene	17.474	91	12339190	454.15 ug/l	98
70) m-Xylene & p-Xylene	17.562	91	18487581	877.08 ug/l	98
71) o-Xylene	18.113	91	10396379	477.29 ug/l	97
72) Styrene	18.146	104	8289117	489.39 ug/l	99
74) Isopropylbenzene	18.509	105	12898065	477.62 ug/l	99
75) Bromoform	18.597	173	1965775	561.69 ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	2981684	521.59 ug/l	99
78) 1,2,3-Trichloropropane	18.883	110	844753	515.79 ug/l	98
79) trans-1,4-Dichloro-2-b...	18.927	53	1192529	554.75 ug/l	96
80) n-Propylbenzene	18.960	91	14977854	466.73 ug/l	99
81) Bromobenzene	19.070	156	3145833	482.04 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	11055474	468.80 ug/l	98
83) 2-Chlorotoluene	19.191	91	9462105	455.29 ug/l	98
84) 4-Chlorotoluene	19.235	91	8604490	489.83 ug/l	97
85) tert-Butylbenzene	19.521	134	2145220	462.30 ug/l	93
86) 1,2,4-Trimethylbenzene	19.554	105	10964797	469.50 ug/l	98
87) sec-Butylbenzene	19.730	105	14185971	462.91 ug/l	100
88) p-Isopropyltoluene	19.863	119	11488777	469.25 ug/l	99
89) 1,3-Dichlorobenzene	20.017	146	6073523	466.25 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	5999393	467.89 ug/l	99
91) Benzyl chloride	20.226	91	6099953	710.54 ug/l	95
92) n-Butylbenzene	20.270	91	9908878	449.53 ug/l	95
93) 1,2-Dichlorobenzene	20.512	146	5631976	470.99 ug/l	99
94) 1,2-Dibromo-3-chloropr...	21.337	157	597515	567.67 ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	3385518	508.81 ug/l	99
96) Hexachlorobutadiene	22.482	225	1819996	466.61 ug/l	99
97) Naphthalene	22.724	128	8069252	499.60 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	3077383	505.74 ug/l	99

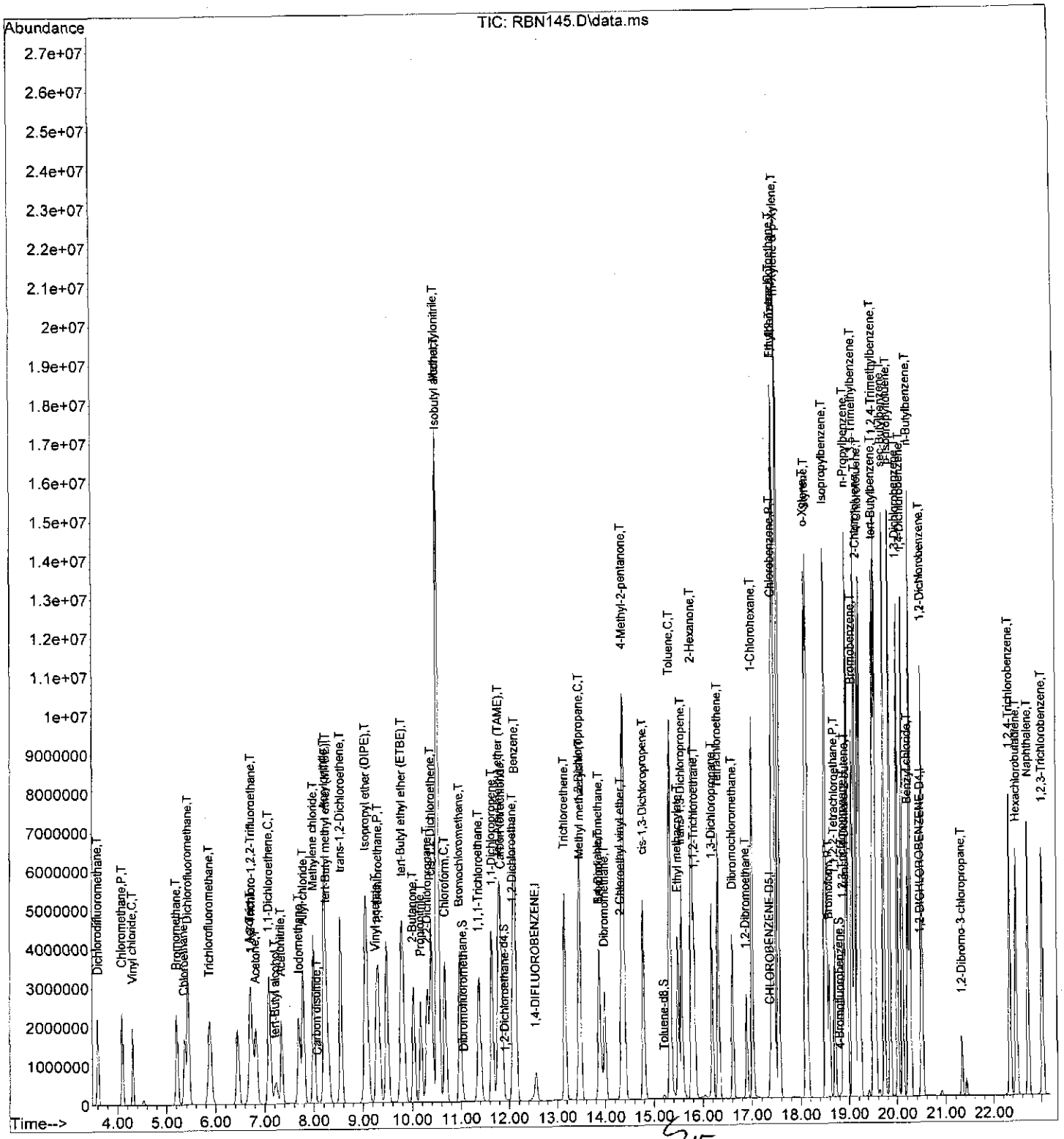
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SW
2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B09\
Data File : RBN145.D
Acq On : 9 Feb 2011 2:39 pm
Operator : CGM
Sample : VOF4B0910
Misc : 500ppb 8260/2500ppb KET-AA-TBA
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 11 06:50:14 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



2/11/11

2421

SECOND SOURCE VERIFICATION

CONTINUE_CALIBRATION - CALIBRATION VERIFICATION

Instrument ID :F4
IC_Beginning DateTime :02/09/11 10:21
Spike Amount :50 PPB
CC/CV File :RBN151
IC File :RBN141

Column Spec :RTX-502.2 ID :0.32MM
IC_Ending DateTime :02/09/11 14:39
HPChem Method :VOF4B09
Date_Time :02/10/11 10:07

M	IDX	Parameters	CC_Con	CC%_D	CC_Resp	CCRRF	AvRRF	CC_Rtm	AvRtm	%_RSD	Co_X0	Co_X1	Co_X2	Co_Cor
	1	1,4-DIFLUOROBENZENE	50.000	0	916535	1	1	12.555	12.555	0				
	2	Dichlorodifluoromethane	53.259	6.5	296301	0.323	0.303	3.608	3.608	3.73				
	3	Chloromethane	46.515	-7.0	270333	0.295	0.317	4.092	4.092	5.96				
	4	Vinyl chloride	55.685	11.4	263215	0.287	0.258	4.312	4.317	8.47				
	5	Bromomethane	52.454	4.9	260980	0.285	0.271	5.226	5.220	6.28				
	6	Chloroethane	53.745	7.5	254909	0.278	0.259	5.380	5.374	7.66				
	7	Dichlorofluoromethane	45.259	-9.5	537712	0.587	0.648	5.446	5.446	1.61				
	8	Trichlorofluoromethane	53.657	7.3	468006	0.511	0.476	5.897	5.890	3.51				
5	9	Acrolein	278.954	11.6	188705	0.041	0.037	6.711	6.716	9.92				
	10	1,1,2-Trichloro-1,2,2-Trifluoroethane	58.882	17.8	218088	0.238	0.202	6.744	6.741	1.59				
5	11	Acetone	232.077	-7.2	352862	0.077	0.095	6.821	6.824	26.72	0.0066	0.0815		0.9995
	12	1,1-Dichloroethene	51.958	3.9	484196	0.528	0.508	7.096	7.099	1.78				
5	13	tert-Butyl alcohol	201.708	-19.3	109350	0.024	0.030	7.195	7.203	7.20				
10	14	Acetonitrile	446.849	-10.6	284621	0.031	0.035	7.339	7.336	3.59				
	15	Methyl acetate												
	16	Iodomethane	48.306	-3.4	380470	0.415	0.328	7.702	7.703	40.84	-0.0107	0.4408		0.9994
	17	Allyl chloride	55.302	10.6	137833	0.150	0.136	7.790	7.790	4.93				
	18	Methylene chloride	45.898	-8.2	487249	0.532	0.579	7.999	7.999	11.61				
	19	Carbon disulfide	47.359	-5.3	936753	1.022	1.079	8.076	8.076	11.90				
5	20	Acrylonitrile	249.278	-0.3	561416	0.123	0.123	8.219	8.218	5.38				
	21	tert-Butyl methyl ether (MTBE)	44.777	-10.4	573238	0.625	0.698	8.252	8.253	2.87				
	22	trans-1,2-Dichloroethene	48.246	-3.5	480404	0.524	0.543	8.549	8.552	1.20				
	23	Isopropyl ether (DIPE)	46.109	-7.8	1174970	1.282	1.390	9.066	9.069	1.95				
	24	Vinyl acetate	50.477	1.0	533070	0.582	0.576	9.275	9.280	10.29				
	25	1,1-Dichloroethane	50.662	1.3	577531	0.630	0.622	9.319	9.321	1.34				
	26	tert-Butyl ethyl ether (ETBE)	46.310	-7.4	974837	1.064	1.148	9.804	9.800	2.99				
5	27	2-Butanone	234.080	-6.4	625826	0.137	0.146	10.024	10.026	5.69				
10	28	Propionitrile	429.124	-14.2	352024	0.038	0.045	10.167	10.167	3.88				
	29	2,2-Dichloropropane	50.252	0.5	381217	0.416	0.414	10.321	10.320	4.62				
	30	cis-1,2-Dichloroethene	46.880	-6.2	273770	0.299	0.319	10.398	10.402	1.61				
20	31	Isobutyl alcohol	870.263	-13.0	212558	0.012	0.013	10.519	10.524	5.08				
10	32	Methacrylonitrile	439.436	-12.1	427549	0.047	0.053	10.519	10.519	8.70				
	33	Chloroform	51.497	3.0	482544	0.526	0.511	10.673	10.674	1.52				
	34	tert-Amyl alcohol (TAA)												
	35	Bromochloromethane	47.145	-5.7	306009	0.334	0.354	10.981	10.980	2.47				
	36	Cyclohexane												
	37	Dibromofluoromethane	52.721	5.4	309892	0.338	0.321	11.058	11.057	11.77				
	38	1,1,1-Trichloroethane	51.426	2.9	417144	0.455	0.443	11.388	11.382	3.10				
	39	tert-Amyl methyl ether (TAME)	47.257	-5.5	141929	0.155	0.164	11.796	11.797	9.25				
	40	1,2-Dichloroethane-d4	51.332	2.7	304959	0.333	0.324	11.917	11.917	9.09				
	41	CHLOROBENZENE-D5	50.000	0	830665	1	1	17.375	17.377	0				
	42	1,1-Dichloropropene	50.073	0.1	135841	0.164	0.163	11.653	11.651	6.00				
	43	Carbon tetrachloride	50.775	1.6	383475	0.462	0.455	11.840	11.841	3.80				
	44	1,2-Dichloroethane	46.865	-6.3	365668	0.440	0.470	12.082	12.081	1.08				
	45	Benzene	45.571	-8.9	956937	1.152	1.264	12.137	12.130	4.96				
	46	Trichloroethene	48.001	-4.0	295607	0.356	0.371	13.171	13.167	1.09				
	47	1,2-Dichloropropane	48.051	-3.9	330660	0.398	0.414	13.468	13.467	1.53				
	48	Methyl methacrylate	44.320	-11.4	122545	0.148	0.166	13.479	13.484	6.42				
	49	Methylcylohexane												
20	50	1,4-Dioxane	933.248	-6.7	34296	0.002	0.002	13.865	13.865	12.42				

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	51	Bromodichloromethane	47.392	-5.2	340022	0.409	0.432	13.876	13.878	5.07				
	52	Dibromomethane	47.005	-6.0	145377	0.175	0.186	13.997	13.994	6.03				
	53	2-Chloroethyl vinyl ether	42.346	-15.3	138899	0.167	0.197	14.327	14.328	7.14				
5	54	4-Methyl-2-pentanone	233.958	-6.4	1501995	0.362	0.386	14.371	14.371	4.58				
	55	cis-1,3-Dichloropropene	48.062	-3.9	394301	0.475	0.494	14.789	14.789	5.91				
	56	Toluene-d8	53.130	6.3	1000043	1.204	1.133	15.207	15.207	8.91				
	57	Toluene	44.862	-10.3	1037284	1.249	1.392	15.339	15.338	7.54				
	58	Ethyl methacrylate	45.123	-9.8	246075	0.296	0.328	15.493	15.493	10.85				
	59	trans-1,3-Dichloropropene	48.104	-3.8	338769	0.408	0.424	15.570	15.571	7.31				
5	60	2-Hexanone	234.793	-6.1	959164	0.231	0.246	15.780	15.778	6.42				
	61	1,1,2-Trichloroethane	46.267	-7.5	199583	0.240	0.260	15.823	15.828	1.94				
	62	1,3-Dichloropropane	45.089	-9.8	327332	0.394	0.437	16.198	16.198	1.76				
	63	Tetrachloroethene	48.888	-2.2	225612	0.272	0.278	16.319	16.319	3.09				
	64	Dibromochloromethane	47.584	-4.8	262707	0.316	0.332	16.616	16.616	9.57				
	65	1,2-Dibromoethane	43.872	-12.3	203492	0.245	0.279	16.891	16.891	3.61				
	66	1-Chlorohexane	49.654	-0.7	381783	0.460	0.463	17.023	17.023	1.90				
	67	Chlorobenzene	47.729	-4.5	741711	0.893	0.935	17.430	17.430	3.94				
	68	1,1,1,2-Tetrachloroethane	48.009	-4.0	265187	0.319	0.332	17.463	17.466	3.77				
	69	Ethylbenzene	47.124	-5.8	1206406	1.452	1.541	17.463	17.465	4.57				
2	70	m-Xylene & p-Xylene	94.036	-6.0	1867645	1.124	1.195	17.562	17.563	6.14				
	71	o-Xylene	46.445	-7.1	953237	1.148	1.235	18.113	18.113	2.15				
	72	Styrene	48.802	-2.4	778855	0.938	0.961	18.146	18.146	4.79				
	73	1,2-DICHLOROBENZENE-D4	50.000	0	384553	1	1	20.490	20.490	0				
	74	Isopropylbenzene	49.558	-0.9	1259658	3.276	3.305	18.509	18.509	2.24				
	75	Bromoform	47.964	-4.1	157998	0.411	0.428	18.597	18.597	10.38				
	76	1,1,2,2-Tetrachloroethane	43.708	-12.6	235177	0.612	0.700	18.707	18.707	3.54				
	77	4-Bromofluorobenzene	53.660	7.3	397273	1.033	0.963	18.817	18.817	5.91				
	78	1,2,3-Trichloropropane	44.035	-11.9	67881	0.177	0.200	18.872	18.876	4.22				
	79	trans-1,4-Dichloro-2-butene	41.081	-17.8	83119	0.216	0.263	18.916	18.919	8.62				
	80	n-Propylbenzene	48.461	-3.1	1463750	3.806	3.927	18.960	18.960	3.30				
	81	Bromobenzene	47.701	-4.6	293002	0.762	0.799	19.070	19.070	2.50				
	82	1,3,5-Trimethylbenzene	46.877	-6.2	1040505	2.706	2.886	19.125	19.125	3.73				
	83	2-Chlorotoluene	46.190	-7.6	903523	2.350	2.543	19.191	19.191	4.72				
	84	4-Chlorotoluene	47.977	-4.0	793246	2.063	2.150	19.235	19.235	2.64				
	85	tert-Butylbenzene	48.962	-2.1	213845	0.556	0.568	19.510	19.512	3.67				
	86	1,2,4-Trimethylbenzene	48.554	-2.9	1067286	2.775	2.858	19.554	19.554	2.99				
	87	sec-Butylbenzene	48.511	-3.0	1399234	3.639	3.750	19.730	19.730	3.35				
	88	p-Isopropyltoluene	49.367	-1.3	1137635	2.958	2.996	19.862	19.862	3.20				
	89	1,3-Dichlorobenzene	47.315	-5.4	580121	1.509	1.594	20.017	20.017	4.31				
	90	1,4-Dichlorobenzene	47.746	-4.5	576226	1.498	1.569	20.115	20.116	3.82				
	91	Benzyl chloride	41.747	-16.5	327488	0.852	0.813	20.226	20.226	24.95	-0.0272	1.0525		0.9974
	92	n-Butylbenzene	51.104	2.2	1060256	2.757	2.698	20.270	20.270	5.42				
	93	1,2-Dichlorobenzene	46.867	-6.3	527481	1.372	1.463	20.512	20.512	3.65				
	94	1,2-Dibromo-3-chloropropane	43.515	-13.0	43111	0.112	0.129	21.337	21.334	14.26				
	95	1,2,4-Trichlorobenzene	52.682	5.4	329930	0.858	0.814	22.339	22.339	8.55				
	96	Hexachlorobutadiene	50.359	0.7	184875	0.481	0.477	22.471	22.473	2.87				
	97	Naphthalene	42.207	-15.6	622728	1.619	1.683	22.724	22.724	21.99	-0.0537	1.9820		0.9995
	98	1,2,3-Trichlorobenzene	49.963	-0.1	286156	0.744	0.745	23.032	23.032	8.01				

Spike Amount = Nominal Amount * M

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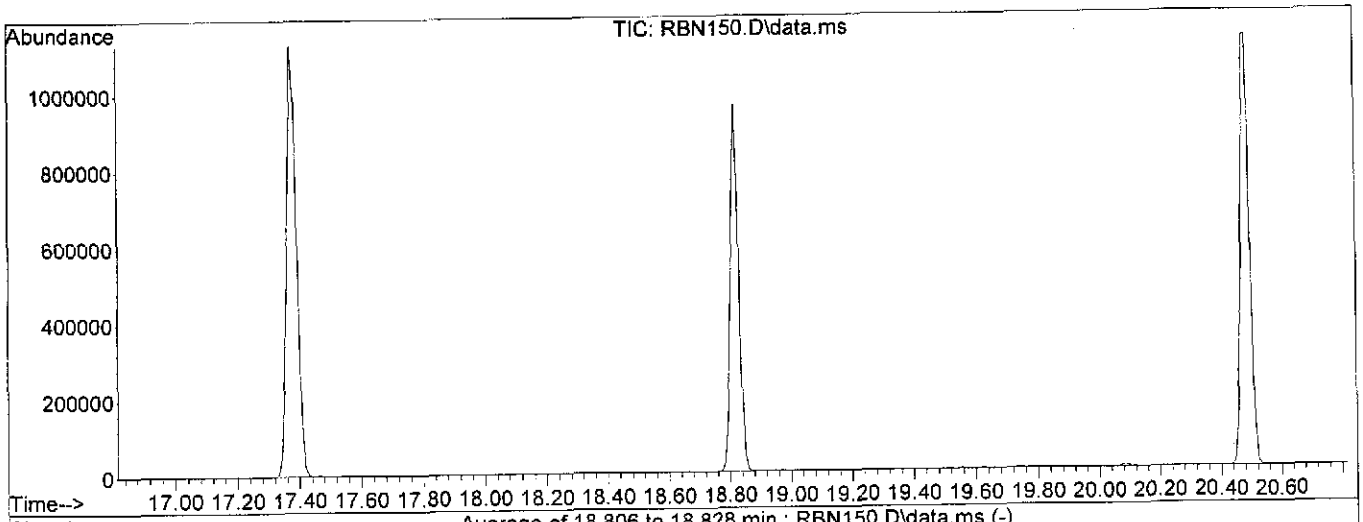
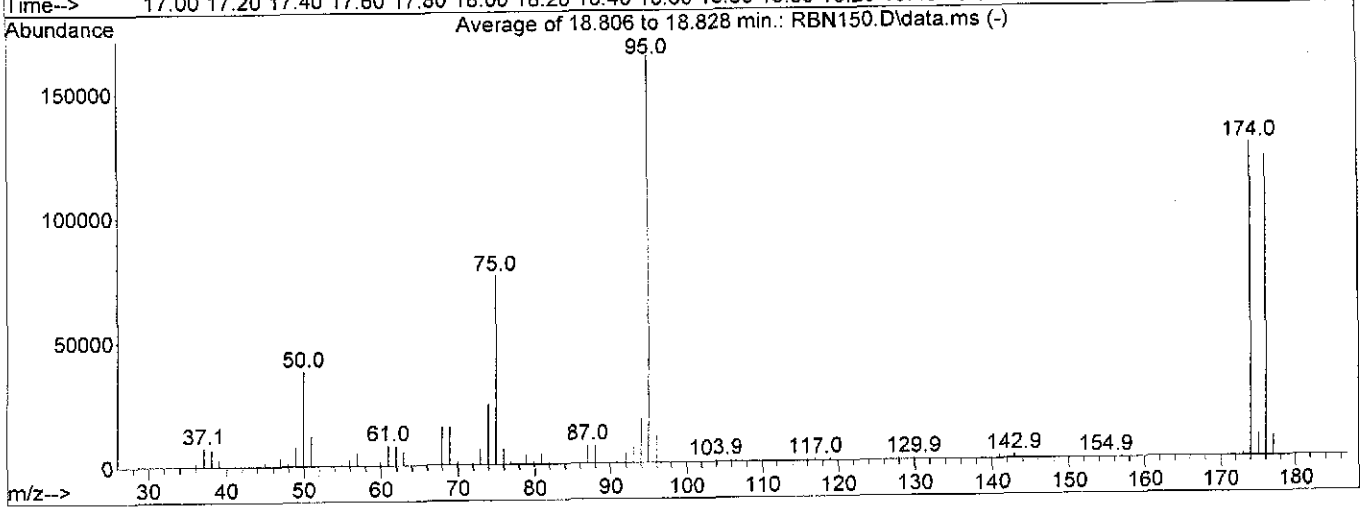
Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN150.D
Acq On : 10 Feb 2011 9:39 am
Operator : CGM
Sample : BFBF4B11
Misc : T/CHK
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Title : METHOD 8260 5mL
Last Update : Fri Feb 11 06:46:41 2011





AutoFind: Scans 1392, 1393, 1394; Background Corrected with Scan 1386

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.2	37933	PASS
75	95	30	60	46.3	75765	PASS
95	95	100	100	100.0	163491	PASS
96	95	5	9	6.7	11008	PASS
173	174	0.00	2	0.9	1112	PASS
174	95	50	100	76.9	125675	PASS
175	174	5	9	7.1	8925	PASS
176	174	95	101	95.7	120283	PASS
177	176	5	9	6.6	7902	PASS

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Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	50.000	53.259	-6.5	105	0.00
3	P,T	Chloromethane	50.000	46.515	7.0	103	0.00
4	C,T	Vinyl chloride	50.000	55.685	-11.4	103	0.00
5	T	Bromomethane	50.000	52.455	-4.9	110	0.01
6	T	Chloroethane	50.000	53.745	-7.5	100	0.01
7	T	Dichlorofluoromethane	50.000	45.259	9.5	87	0.00
8	T	Trichlorofluoromethane	50.000	53.657	-7.3	105	0.01
9	T	Acrolein	250.000	278.954	-11.6	111	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	58.882	-17.8	114	0.00
11	T	Acetone	250.000	232.076	7.2	98	0.00
12	C,T	1,1-Dichloroethene	50.000	51.958	-3.9	99	0.00
13	T	tert-Butyl alcohol	250.000	201.708	19.3	89	0.00
14	T	Acetonitrile	500.000	446.849	10.6	91	0.01
15	T	Methyl acetate	-1.000	0.000	0.0	0	0.00
16	T	Iodomethane	50.000	48.306	3.4	96	0.00
17	T	Allyl chloride	50.000	55.302	-10.6	103	0.00
18	T	Methylene chloride	50.000	45.898	8.2	93	0.00
19	T	Carbon disulfide	50.000	47.359	5.3	98	0.00
20	T	Acrylonitrile	250.000	249.278	0.3	100	0.01
21	T	tert-Butyl methyl ether (MT	50.000	44.777	10.4	89	0.00
22	T	trans-1,2-Dichloroethene	50.000	48.246	3.5	92	0.00
23	T	Isopropyl ether (DIPE)	50.000	46.109	7.8	88	0.00
24	T	Vinyl acetate	50.000	50.477	-1.0	97	0.00
25	P,T	1,1-Dichloroethane	50.000	50.663	-1.3	96	0.00
26	T	tert-Butyl ethyl ether (ETB	50.000	46.310	7.4	90	0.01
27	T	2-Butanone	250.000	234.080	6.4	98	0.00
28	T	Propionitrile	500.000	429.124	14.2	87	0.01
29	T	2,2-Dichloropropane	50.000	50.252	-0.5	96	0.00
30	T	cis-1,2-Dichloroethene	50.000	46.880	6.2	88	0.00
31	T	Isobutyl alcohol	1000.000	870.263	13.0	86	0.00
32	T	Methacrylonitrile	500.000	439.436	12.1	88	0.01
33	C,T	Chloroform	50.000	51.497	-3.0	99	0.00
34	T	tert-Amyl alcohol (TAA)	-1.000	0.000	0.0	0	0.00
35	T	Bromochloromethane	50.000	47.145	5.7	89	0.01
36	T	Cyclohexane	-1.000	0.000	0.0	0	0.00
37	S	Dibromofluoromethane	50.000	52.721	-5.4	97	0.01
38	T	1,1,1-Trichloroethane	50.000	51.426	-2.9	97	0.01
39	T	tert-Amyl methyl ether (TAM	50.000	47.257	5.5	90	0.00
40	S	1,2-Dichloroethane-d4	50.000	51.332	-2.7	97	0.00
41	I	CHLOROBENZENE-D5	50.000	50.000	0.0	98	0.00
42	T	1,1-Dichloropropene	50.000	50.073	-0.1	94	0.00
43	T	Carbon tetrachloride	50.000	50.775	-1.5	98	0.00
44	T	1,2-Dichloroethane	50.000	46.865	6.3	92	0.01
45	T	Benzene	50.000	45.571	8.9	91	0.01
46	T	Trichloroethene	50.000	48.001	4.0	93	0.01
47	C,T	1,2-Dichloropropane	50.000	48.051	3.9	93	0.00
48	T	Methyl methacrylate	50.000	44.320	11.4	89	0.00
49	T	Methylcylohexane	-1.000	0.000	0.0	0	0.00

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Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	1000.000	933.248	6.7	91	0.00
51	T	Bromodichloromethane	50.000	47.392	5.2	92	0.00
52	T	Dibromomethane	50.000	47.005	6.0	92	0.01
53	T	2-Chloroethyl vinyl ether	50.000	42.346	15.3	85	0.00
54	T	4-Methyl-2-pentanone	250.000	233.958	6.4	98	0.00
55	T	cis-1,3-Dichloropropene	50.000	48.062	3.9	92	0.00
56	S	Toluene-d8	50.000	53.130	-6.3	101	0.00
57	C,T	Toluene	50.000	44.862	10.3	90	0.01
58	T	Ethyl methacrylate	50.000	45.123	9.8	88	0.00
59	T	trans-1,3-Dichloropropene	50.000	48.103	3.8	92	0.00
60	T	2-Hexanone	250.000	234.793	6.1	97	0.01
61	T	1,1,2-Trichloroethane	50.000	46.267	7.5	92	0.00
62	T	1,3-Dichloropropane	50.000	45.089	9.8	89	0.00
63	T	Tetrachloroethene	50.000	48.888	2.2	96	0.00
64	T	Dibromochloromethane	50.000	47.584	4.8	91	0.00
65	T	1,2-Dibromoethane	50.000	43.872	12.3	87	0.00
66	T	1-Chlorohexane	50.000	49.654	0.7	96	0.00
67	P,T	Chlorobenzene	50.000	47.729	4.5	93	0.00
68	T	1,1,1,2-Tetrachloroethane	50.000	48.009	4.0	91	0.00
69	C,T	Ethylbenzene	50.000	47.124	5.8	92	0.00
70	T	m-Xylene & p-Xylene	100.000	94.036	6.0	91	0.00
71	T	o-Xylene	50.000	46.445	7.1	91	0.00
72	T	Styrene	50.000	48.802	2.4	92	0.00
73	I	1,2-DICHLOROBENZENE-D4	50.000	50.000	0.0	98	0.00
74	T	Isopropylbenzene	50.000	49.558	0.9	95	0.00
75	P,T	Bromoform	50.000	47.964	4.1	93	0.00
76	P,T	1,1,2,2-Tetrachloroethane	50.000	43.708	12.6	87	0.00
77	S	4-Bromofluorobenzene	50.000	53.660	-7.3	103	0.00
78	T	1,2,3-Trichloropropane	50.000	44.035	11.9	87	0.00
79	T	trans-1,4-Dichloro-2-butene	50.000	41.081	17.8	81	0.00
80	T	n-Propylbenzene	50.000	48.461	3.1	92	0.00
81	T	Bromobenzene	50.000	47.701	4.6	91	0.00
82	T	1,3,5-Trimethylbenzene	50.000	46.877	6.2	91	0.00
83	T	2-Chlorotoluene	50.000	46.190	7.6	89	0.00
84	T	4-Chlorotoluene	50.000	47.977	4.0	94	0.00
85	T	tert-Butylbenzene	50.000	48.962	2.1	93	0.00
86	T	1,2,4-Trimethylbenzene	50.000	48.554	2.9	93	0.00
87	T	sec-Butylbenzene	50.000	48.511	3.0	93	0.00
88	T	p-Isopropyltoluene	50.000	49.367	1.3	94	0.00
89	T	1,3-Dichlorobenzene	50.000	47.315	5.4	92	0.00
90	T	1,4-Dichlorobenzene	50.000	47.746	4.5	93	0.00
91	T	Benzyl chloride	50.000	41.747	16.5	85	0.00
92	T	n-Butylbenzene	50.000	51.104	-2.2	96	0.00
93	T	1,2-Dichlorobenzene	50.000	46.867	6.3	93	0.00
94	T	1,2-Dibromo-3-chloropropane	50.000	43.515	13.0	86	0.00
95	T	1,2,4-Trichlorobenzene	50.000	52.682	-5.4	96	0.00
96	T	Hexachlorobutadiene	50.000	50.359	-0.7	98	-0.01
97	T	Naphthalene	50.000	42.207	15.6	89	0.00
98	T	1,2,3-Trichlorobenzene	50.000	49.963	0.1	93	0.00

SW 2/14/11

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SU 2/11/11

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	96	0.00
2	T	Dichlorodifluoromethane	0.303	0.323	-6.6	105	0.00
3	P,T	Chloromethane	0.317	0.295	6.9	103	0.00
4	C,T	Vinyl chloride	0.258	0.287	-11.2	103	0.00
5	T	Bromomethane	0.271	0.285	-5.2	110	0.01
6	T	Chloroethane	0.259	0.278	-7.3	100	0.01
7	T	Dichlorofluoromethane	0.648	0.587	9.4	87	0.00
8	T	Trichlorofluoromethane	0.476	0.511	-7.4	105	0.01
9	T	Acrolein	0.037	0.041	-10.8	111	0.00
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.202	0.238	-17.8	114	0.00
11	T	Acetone	0.095	0.077	18.9	98	0.00
12	C,T	1,1-Dichloroethene	0.508	0.528	-3.9	99	0.00
13	T	tert-Butyl alcohol	0.030	0.024	20.0	89	0.00
14	T	Acetonitrile	0.035	0.031	11.4	91	0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.328	0.415	-26.5#	96	0.00
17	T	Allyl chloride	0.136	0.150	-10.3	103	0.00
18	T	Methylene chloride	0.579	0.532	8.1	93	0.00
19	T	Carbon disulfide	1.079	1.022	5.3	98	0.00
20	T	Acrylonitrile	0.123	0.123	0.0	100	0.01
21	T	tert-Butyl methyl ether (MT	0.698	0.625	10.5	89	0.00
22	T	trans-1,2-Dichloroethene	0.543	0.524	3.5	92	0.00
23	T	Isopropyl ether (DIPE)	1.390	1.282	7.8	88	0.00
24	T	Vinyl acetate	0.576	0.582	-1.0	97	0.00
25	P,T	1,1-Dichloroethane	0.622	0.630	-1.3	96	0.00
26	T	tert-Butyl ethyl ether (ETB	1.148	1.064	7.3	90	0.01
27	T	2-Butanone	0.146	0.137	6.2	98	0.00
28	T	Propionitrile	0.045	0.038	15.6	87	0.01
29	T	2,2-Dichloropropane	0.414	0.416	-0.5	96	0.00
30	T	cis-1,2-Dichloroethene	0.319	0.299	6.3	88	0.00
31	T	Isobutyl alcohol	0.013	0.012	7.7	86	0.00
32	T	Methacrylonitrile	0.053	0.047	11.3	88	0.01
33	C,T	Chloroform	0.511	0.526	-2.9	99	0.00
34	T	tert-Amyl alcohol (TAA)	0.000	0.000	0.0	0#	0.00
35	T	Bromochloromethane	0.354	0.334	5.6	89	0.01
36	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
37	S	Dibromofluoromethane	0.321	0.338	-5.3	97	0.01
38	T	1,1,1-Trichloroethane	0.443	0.455	-2.7	97	0.01
39	T	tert-Amyl methyl ether (TAM	0.164	0.155	5.5	90	0.00
40	S	1,2-Dichloroethane-d4	0.324	0.333	-2.8	97	0.00
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	98	0.00
42	T	1,1-Dichloropropene	0.163	0.164	-0.6	94	0.00
43	T	Carbon tetrachloride	0.455	0.462	-1.5	98	0.00
44	T	1,2-Dichloroethane	0.470	0.440	6.4	92	0.01
45	T	Benzene	1.264	1.152	8.9	91	0.01
46	T	Trichloroethene	0.371	0.356	4.0	93	0.01
47	C,T	1,2-Dichloropropane	0.414	0.398	3.9	93	0.00
48	T	Methyl methacrylate	0.166	0.148	10.8	89	0.00
49	T	Methylcylohexane	0.000	0.000	0.0	0#	0.00

Su 2/14/11

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	0.002	0.002	0.0	91	0.00
51	T	Bromodichloromethane	0.432	0.409	5.3	92	0.00
52	T	Dibromomethane	0.186	0.175	5.9	92	0.01
53	T	2-Chloroethyl vinyl ether	0.197	0.167	15.2	85	0.00
54	T	4-Methyl-2-pentanone	0.386	0.362	6.2	98	0.00
55	T	cis-1,3-Dichloropropene	0.494	0.475	3.8	92	0.00
56	S	Toluene-d8	1.133	1.204	-6.3	101	0.00
57	C,T	Toluene	1.392	1.249	10.3	90	0.01
58	T	Ethyl methacrylate	0.328	0.296	9.8	88	0.00
59	T	trans-1,3-Dichloropropene	0.424	0.408	3.8	92	0.00
60	T	2-Hexanone	0.246	0.231	6.1	97	0.01
61	T	1,1,2-Trichloroethane	0.260	0.240	7.7	92	0.00
62	T	1,3-Dichloropropane	0.437	0.394	9.8	89	0.00
63	T	Tetrachloroethene	0.278	0.272	2.2	96	0.00
64	T	Dibromochloromethane	0.332	0.316	4.8	91	0.00
65	T	1,2-Dibromoethane	0.279	0.245	12.2	87	0.00
66	T	1-Chlorohexane	0.463	0.460	0.6	96	0.00
67	P,T	Chlorobenzene	0.935	0.893	4.5	93	0.00
68	T	1,1,1,2-Tetrachloroethane	0.332	0.319	3.9	91	0.00
69	C,T	Ethylbenzene	1.541	1.452	5.8	92	0.00
70	T	m-Xylene & p-Xylene	1.195	1.124	5.9	91	0.00
71	T	o-Xylene	1.235	1.148	7.0	91	0.00
72	T	Styrene	0.961	0.938	2.4	92	0.00
73	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	98	0.00
74	T	Isopropylbenzene	3.305	3.276	0.9	95	0.00
75	P,T	Bromoform	0.428	0.411	4.0	93	0.00
76	P,T	1,1,2,2-Tetrachloroethane	0.700	0.612	12.6	87	0.00
77	S	4-Bromofluorobenzene	0.963	1.033	-7.3	103	0.00
78	T	1,2,3-Trichloropropane	0.200	0.177	11.5	87	0.00
79	T	trans-1,4-Dichloro-2-butene	0.263	0.216	17.9	81	0.00
80	T	n-Propylbenzene	3.927	3.806	3.1	92	0.00
81	T	Bromobenzene	0.799	0.762	4.6	91	0.00
82	T	1,3,5-Trimethylbenzene	2.886	2.706	6.2	91	0.00
83	T	2-Chlorotoluene	2.543	2.350	7.6	89	0.00
84	T	4-Chlorotoluene	2.150	2.063	4.0	94	0.00
85	T	tert-Butylbenzene	0.568	0.556	2.1	93	0.00
86	T	1,2,4-Trimethylbenzene	2.858	2.775	2.9	93	0.00
87	T	sec-Butylbenzene	3.750	3.639	3.0	93	0.00
88	T	p-Isopropyltoluene	2.996	2.958	1.3	94	0.00
89	T	1,3-Dichlorobenzene	1.594	1.509	5.3	92	0.00
90	T	1,4-Dichlorobenzene	1.569	1.498	4.5	93	0.00
91	T	Benzyl chloride	0.813	0.852	-4.8	85	0.00
92	T	n-Butylbenzene	2.698	2.757	-2.2	96	0.00
93	T	1,2-Dichlorobenzene	1.463	1.372	6.2	93	0.00
94	T	1,2-Dibromo-3-chloropropane	0.129	0.112	13.2	86	0.00
95	T	1,2,4-Trichlorobenzene	0.814	0.858	-5.4	96	0.00
96	T	Hexachlorobutadiene	0.477	0.481	-0.8	98	-0.01
97	T	Naphthalene	1.683	1.619	3.8	89	0.00
98	T	1,2,3-Trichlorobenzene	0.745	0.744	0.1	93	0.00

SCW 2/11/11

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
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Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	916535	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.375	117	830665	50.00	ug/l	0.00
73) 1,2-DICHLOROBENZENE-D4	20.490	152	384553	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	309892	52.72	ug/l	0.01
Spiked Amount 50.000			Recovery	=	105.44%	
40) 1,2-Dichloroethane-d4	11.917	65	304959	51.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.66%	
56) Toluene-d8	15.207	98	1000043	53.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	106.26%	
77) 4-Bromofluorobenzene	18.817	95	397273	53.66	ug/l	0.00
Spiked Amount 50.000			Recovery	=	107.32%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	296301	53.26	ug/l	99
3) Chloromethane	4.092	50	270333	46.52	ug/l	99
4) Vinyl chloride	4.312	62	263215	55.68	ug/l	99
5) Bromomethane	5.226	94	260980	52.45	ug/l	99
6) Chloroethane	5.380	64	254909	53.74	ug/L	98
7) Dichlorofluoromethane	5.446	67	537712	45.26	ug/L	100
8) Trichlorofluoromethane	5.897	101	468006	53.66	ug/l	100
9) Acrolein	6.711	56	188705	278.95	ug/l	99
10) 1,1,2-Trichloro-1,2,2-...	6.744	151	218088	58.88	ug/l	99
11) Acetone	6.821	43	352862	232.08	ug/l	100
12) 1,1-Dichloroethene	7.096	61	484196	51.96	ug/L	100
13) tert-Butyl alcohol	7.195	59	109350	201.71	ug/L	99
14) Acetonitrile	7.339	41	284621	446.85	ug/L	100
16) Iodomethane	7.702	142	380470	48.31	ug/L	100
17) Allyl chloride	7.790	76	137833	55.30	ug/L	99
18) Methylene chloride	7.999	49	487249	45.90	ug/l	100
19) Carbon disulfide	8.076	76	936753	47.36	ug/L	100
20) Acrylonitrile	8.219	53	561416	249.28	ug/l	99
21) tert-Butyl methyl ethe...	8.252	73	573238	44.78	ug/L	99
22) trans-1,2-Dichloroethene	8.549	61	480404	48.25	ug/l	100
23) Isopropyl ether (DIPE)	9.066	45	1174970	46.11	ug/l	100
24) Vinyl acetate	9.275	43	533070	50.48	ug/l	100
25) 1,1-Dichloroethane	9.319	63	577531	50.66	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	974837	46.31	ug/l	99
27) 2-Butanone	10.024	43	625826	234.08	ug/l	99
28) Propionitrile	10.167	54	352024	429.12	ug/L	99
29) 2,2-Dichloropropane	10.321	77	381217	50.25	ug/L	100
30) cis-1,2-Dichloroethene	10.398	96	273770	46.88	ug/L	98
31) Isobutyl alcohol	10.519	43	212558	870.26	ug/L	98
32) Methacrylonitrile	10.519	52	427549	439.44	ug/L	100
33) Chloroform	10.673	83	482544	51.50	ug/l	99
35) Bromochloromethane	10.981	49	306009	47.15	ug/l	99
38) 1,1,1-Trichloroethane	11.388	97	417144	51.43	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	141929	47.26	ug/l	99
42) 1,1-Dichloropropene	11.653	110	135841	50.07	ug/L	99
43) Carbon tetrachloride	11.840	119	383475	50.78	ug/l	100
44) 1,2-Dichloroethane	12.082	62	365668	46.86	ug/l	100
45) Benzene	12.137	78	956937	45.57	ug/l	100

SL 2/11/11

Quantitation Report (QT Reviewed)

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Data File : RBN151.D
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Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	295607	48.00 ug/l	99
47) 1,2-Dichloropropane	13.468	63	330660	48.05 ug/L	98
48) Methyl methacrylate	13.479	69	122545	44.32 ug/L	97
50) 1,4-Dioxane	13.865	88	34296	933.25 ug/L	97
51) Bromodichloromethane	13.876	83	340022	47.39 ug/l	100
52) Dibromomethane	13.997	93	145377	47.00 ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	138899	42.35 ug/l	100
54) 4-Methyl-2-pentanone	14.371	43	1501995	233.96 ug/l	99
55) cis-1,3-Dichloropropene	14.789	75	394301	48.06 ug/l	99
57) Toluene	15.339	91	1037284	44.86 ug/L	100
58) Ethyl methacrylate	15.493	69	246075	45.12 ug/L	99
59) trans-1,3-Dichloropropene	15.570	75	338769	48.10 ug/l	99
60) 2-Hexanone	15.779	43	959164	234.79 ug/l	99
61) 1,1,2-Trichloroethane	15.823	97	199583	46.27 ug/l #	87
62) 1,3-Dichloropropane	16.198	76	327332	45.09 ug/l	99
63) Tetrachloroethene	16.319	164	225612	48.89 ug/l	99
64) Dibromochloromethane	16.616	129	262707	47.58 ug/l	100
65) 1,2-Dibromoethane	16.891	107	203492	43.87 ug/l	99
66) 1-Chlorohexane	17.023	91	381783	49.65 ug/l	100
67) Chlorobenzene	17.430	112	741711	47.73 ug/l	99
68) 1,1,1,2-Tetrachloroethane	17.463	131	265187	48.01 ug/l	99
69) Ethylbenzene	17.463	91	1206406	47.12 ug/l	100
70) m-Xylene & p-Xylene	17.562	91	1867645	94.04 ug/l	100
71) o-Xylene	18.113	91	953237	46.45 ug/l	99
72) Styrene	18.146	104	778855	48.80 ug/l	99
74) Isopropylbenzene	18.509	105	1259658	49.56 ug/l	100
75) Bromoform	18.597	173	157998	47.96 ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	235177	43.71 ug/l	99
78) 1,2,3-Trichloropropane	18.872	110	67881	44.03 ug/l	95
79) trans-1,4-Dichloro-2-b...	18.916	53	83119	41.08 ug/l	99
80) n-Propylbenzene	18.960	91	1463750	48.46 ug/l	100
81) Bromobenzene	19.070	156	293002	47.70 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	1040505	46.88 ug/l	100
83) 2-Chlorotoluene	19.191	91	903523	46.19 ug/l	100
84) 4-Chlorotoluene	19.235	91	793246	47.98 ug/l	100
85) tert-Butylbenzene	19.510	134	213845	48.96 ug/l	100
86) 1,2,4-Trimethylbenzene	19.554	105	1067286	48.55 ug/l	100
87) sec-Butylbenzene	19.730	105	1399234	48.51 ug/l	100
88) p-Isopropyltoluene	19.862	119	1137635	49.37 ug/l	100
89) 1,3-Dichlorobenzene	20.016	146	580121	47.32 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	576226	47.75 ug/l	100
91) Benzyl chloride	20.226	91	327488	41.75 ug/l	100
92) n-Butylbenzene	20.270	91	1060256	51.10 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	527481	46.87 ug/l	99
94) 1,2-Dibromo-3-chloropr...	21.337	157	43111	43.52 ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	329930	52.68 ug/l	99
96) Hexachlorobutadiene	22.471	225	184875	50.36 ug/l	99
97) Naphthalene	22.724	128	622728	42.21 ug/l	100
98) 1,2,3-Trichlorobenzene	23.032	180	286156	49.96 ug/l	99

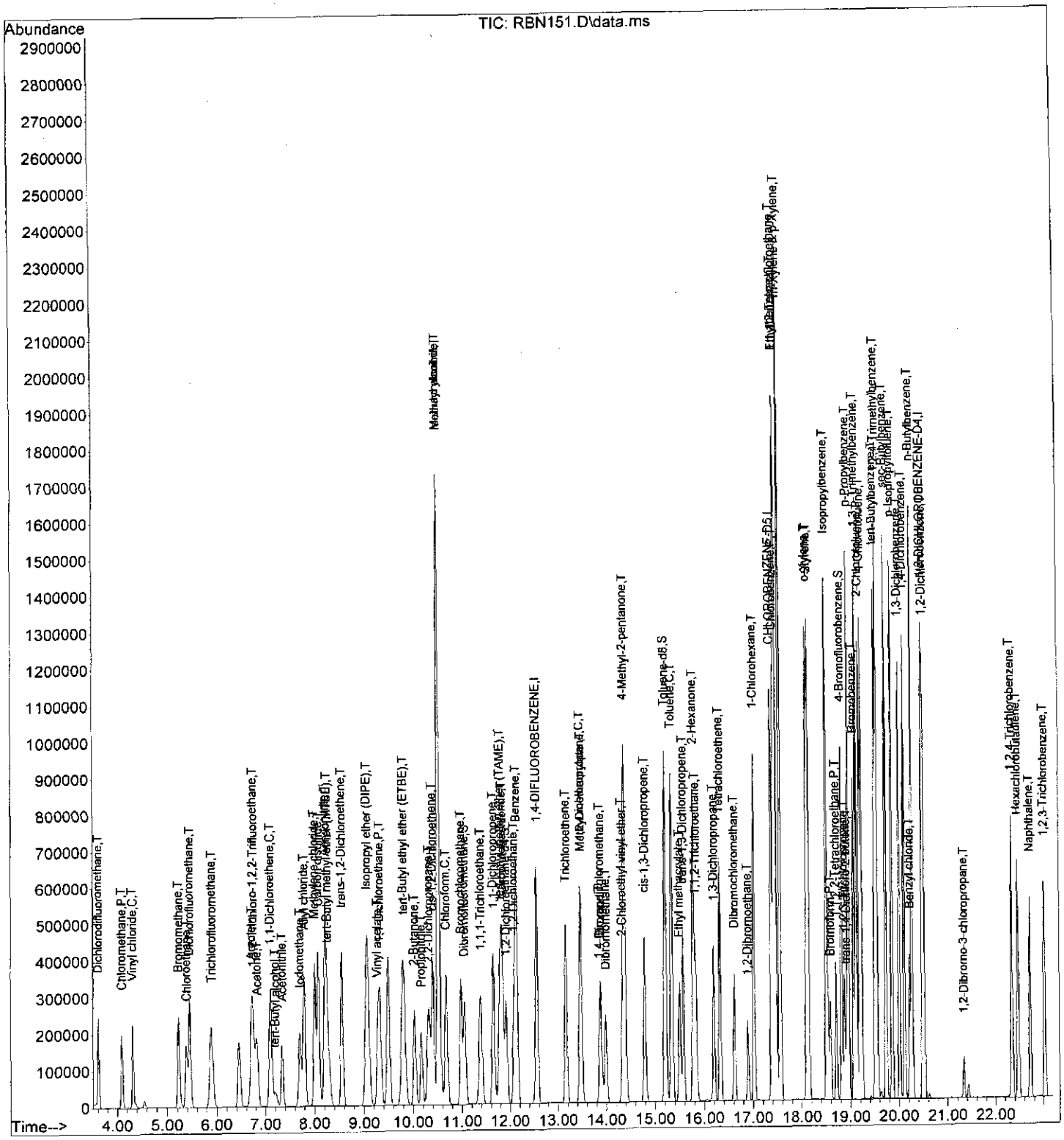
(#) = qualifier out of range (m) = manual integration (+) = signals summed

SW 2/11/11

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B10\
Data File : RBN151.D
Acq On : 10 Feb 2011 10:07 am
Operator : CGM
Sample : IVOF4B092
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 11 06:50:25 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



SU 2/11/11

DAILY CALIBRATIONS

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

BROMOFLUOROBENZENE (BFB)

Lab Name: EMAX Inc
Lab Code: EMXT Case No.:
Lab File ID: RBN278
Instrument ID: TOF4
GC Column:RTX502.2ID:0.32mm (mm)

Contract: OPHA MOFFETT
SAS No.: SDG No.: 11B186
BFB Injection Date : 02/17/11
BFB Injection Time : 08:02
Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.61
75	30.0 - 60.0% of mass 95	46.95
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.55
173	Less than 2.0% of mass 174	0.73(1.0)1
174	Greater than 50% of mass 95	75.51
175	5.0 - 9.0% of mass 174	5.65(7.5)1
176	95.0 - 101.0% of mass 174	72.32(95.8)1
177	5.0 - 9.0% of mass 176	4.82(6.7)2

1-Value is % mass 174 2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
1	VSTD050	CVOF4B0908	RBN279	02/17/11	08:30
2	MBLK1S	VOF4B18B	RBN282	02/17/11	09:52
3	LCS1S	VOF4B18L	RBN280	02/17/11	08:58
4	LCD1S	VOF4B18C	RBN281	02/17/11	09:25
5	MBLK2S	VPB017SB	RBN290	02/17/11	13:33
6	SSI-SS-001	B186-12	RBN291	02/17/11	14:01

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: EMAX Inc
Lab Code: EMXT
Lab File ID: RBN141
Instrument ID: TOF4
GC Column: RTX502.2 ID: 0.32mm (mm)

Project: OPHA MOFFETT
SDG No.: 11B186
Date Analyzed: 02/09/11
Time Analyzed: 12:47
Heated Purge: (Y/N) Y

		IS1(DBF)		IS2(CBZ)		IS3(DCB)	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	955687	12.56	846550	17.38	391027	20.49
	UPPER LIMIT	1911374	13.06	1693100	17.88	782054	20.99
	LOWER LIMIT	477844	12.06	423275	16.88	195514	19.99
	SAMPLE ID						
1	VSTD050	839670	12.56	792641	17.39	369328	20.49
2	MBLK1S	798205	12.56	741969	17.38	351395	20.49
3	LCS1S	830952	12.56	785896	17.38	374975	20.49
4	LCD1S	825579	12.56	774069	17.38	366765	20.49
5	MBLK2S	938076	12.56	886899	17.38	422358	20.49
6	SSI-SS-001	896192	12.56	823565	17.38	359697	20.49

IS1 (DFB) = 1,4-Difluorobenzene
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DCB) = 1,2-Dichlorobenzene-d4

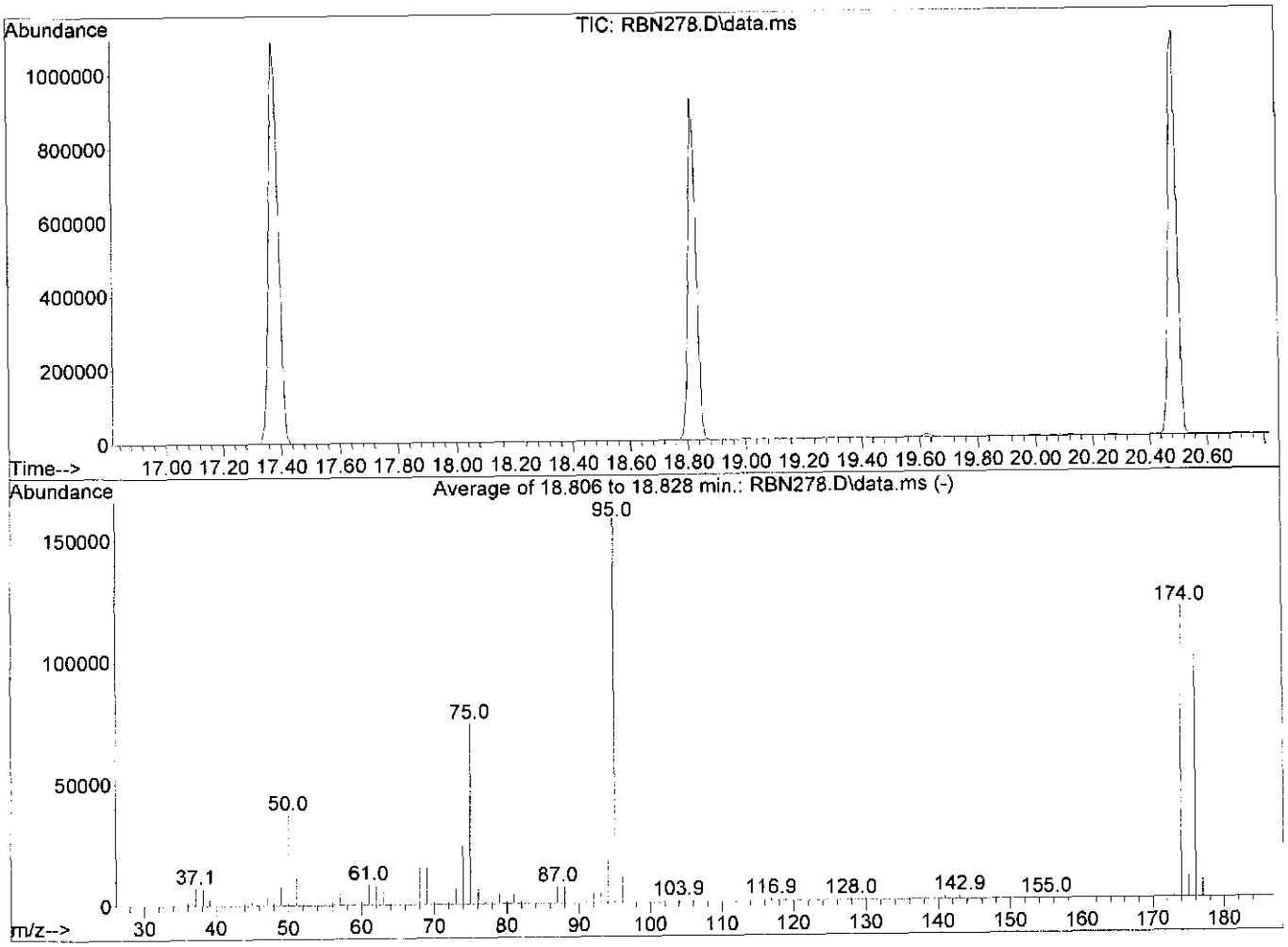
AREA UPPER LIMIT = + 100% of internal standard area
AREA LOWER LIMIT = - 50% of internal standard area
RT UPPER LIMIT = + 0.50 minutes of internal standard RT
RT LOWER LIMIT = - 0.50 minutes of internal standard RT

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

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN278.D
Acq On : 17 Feb 2011 8:02 am
Operator : CGM
Sample : BFBF4B18
Misc : T/CHK
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Title : METHOD 8260 5mL
Last Update : Fri Feb 18 12:22:58 2011



AutoFind: Scans 1392, 1393, 1394; Background Corrected with Scan 1387

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.6	37307	PASS
75	95	30	60	46.9	74184	PASS
95	95	100	100	100.0	158008	PASS
96	95	5	9	6.5	10348	PASS
173	174	0.00	2	1.0	1148	PASS
174	95	50	100	75.5	119317	PASS
175	174	5	9	7.5	8926	PASS
176	174	95	101	95.8	114272	PASS
177	176	5	9	6.7	7612	PASS

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	50.000	50.000		0.0	88	0.00
2	T	Dichlorodifluoromethane	50.000	52.369		-4.7	95	0.00
3	P,T	Chloromethane	50.000	48.833		2.3	99	0.00
4	C,T	Vinyl chloride	50.000	57.724		-15.4	98	0.01
5	T	Bromomethane	50.000	49.147		1.7	94	0.01
6	T	Chloroethane	50.000	52.778		-5.6	90	0.01
7	T	Dichlorofluoromethane	50.000	52.327		-4.7	92	0.01
8	T	Trichlorofluoromethane	50.000	55.621		-11.2	100	0.01
9	T	Acrolein	250.000	252.815		-1.1	92	0.01
10	T	1,1,2-Trichloro-1,2,2-Trifl	50.000	56.397		-12.8	100	0.01
11	T	Acetone	250.000	207.434		17.0	80	0.00
12	C,T	1,1-Dichloroethene	50.000	51.840		-3.7	91	0.01
13	T	tert-Butyl alcohol	250.000	179.457	MT	28.2#	73	0.00
14	T	Acetonitrile	500.000	446.029		10.8	83	0.01
15	T	Methyl acetate	-1.000	0.000		0.0	0	0.00
16	T	Iodomethane	50.000	44.074		11.9	80	0.00
17	T	Allyl chloride	50.000	51.783		-3.6	88	0.01
18	T	Methylene chloride	50.000	47.139		5.7	87	0.01
19	T	Carbon disulfide	50.000	46.155		7.7	88	0.00
20	T	Acrylonitrile	250.000	228.079		8.8	84	0.01
21	T	tert-Butyl methyl ether (MT	50.000	46.289		7.4	84	0.01
22	T	trans-1,2-Dichloroethene	50.000	50.250		-0.5	87	0.01
23	T	Isopropyl ether (DIPE)	50.000	48.114		3.8	84	0.00
24	T	Vinyl acetate	50.000	49.568		0.9	87	0.01
25	P,T	1,1-Dichloroethane	50.000	51.150		-2.3	89	0.01
26	T	tert-Butyl ethyl ether (ETB	50.000	47.106		5.8	84	0.01
27	T	2-Butanone	250.000	212.661		14.9	82	0.00
28	T	Propionitrile	500.000	455.349		8.9	85	0.01
29	T	2,2-Dichloropropane	50.000	54.206		-8.4	95	0.00
30	T	cis-1,2-Dichloroethene	50.000	50.936		-1.9	88	0.01
31	T	Isobutyl alcohol	1000.000	839.490		16.1	76	0.00
32	T	Methacrylonitrile	500.000	481.225		3.8	88	0.01
33	C,T	Chloroform	50.000	51.590		-3.2	90	0.00
34	T	tert-Amyl alcohol (TAA)	-1.000	0.000		0.0	0	0.00
35	T	Bromochloromethane	50.000	49.620		0.8	86	0.01
36	T	Cyclohexane	-1.000	0.000		0.0	0	0.00
37	S	Dibromofluoromethane	50.000	52.478		-5.0	88	0.01
38	T	1,1,1-Trichloroethane	50.000	54.489		-9.0	94	0.01
39	T	tert-Amyl methyl ether (TAM	50.000	47.967		4.1	84	0.00
40	S	1,2-Dichloroethane-d4	50.000	51.153		-2.3	89	0.00
41	I	CHLOROBENZENE-D5	50.000	50.000		0.0	94	0.01
42	T	1,1-Dichloropropene	50.000	50.639		-1.3	91	0.00
43	T	Carbon tetrachloride	50.000	52.510		-5.0	97	0.00
44	T	1,2-Dichloroethane	50.000	47.165		5.7	89	0.01
45	T	Benzene	50.000	45.759		8.5	87	0.01
46	T	Trichloroethene	50.000	48.811		2.4	91	0.01
47	C,T	1,2-Dichloropropane	50.000	47.375		5.3	88	0.00
48	T	Methyl methacrylate	50.000	45.091		9.8	87	0.01
49	T	Methylcylohexane	-1.000	0.000		0.0	0	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	Amount	Calc.		%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	1000.000	660.281	NT	34.0#	62	0.00
51	T	Bromodichloromethane	50.000	49.055		1.9	91	0.01
52	T	Dibromomethane	50.000	47.501		5.0	88	0.01
53	T	2-Chloroethyl vinyl ether	50.000	41.882		16.2	80	0.00
54	T	4-Methyl-2-pentanone	250.000	207.873		16.9	83	0.00
55	T	cis-1,3-Dichloropropene	50.000	47.950		4.1	88	0.00
56	S	Toluene-d8	50.000	51.064		-2.1	93	0.00
57	C,T	Toluene	50.000	45.871		8.3	88	0.01
58	T	Ethyl methacrylate	50.000	45.860		8.3	85	0.00
59	T	trans-1,3-Dichloropropene	50.000	48.371		3.3	89	0.00
60	T	2-Hexanone	250.000	206.001		17.6	82	0.01
61	T	1,1,2-Trichloroethane	50.000	46.560		6.9	89	0.00
62	T	1,3-Dichloropropane	50.000	46.275		7.5	87	0.00
63	T	Tetrachloroethene	50.000	50.004		-0.0	94	0.00
64	T	Dibromochloromethane	50.000	49.693		0.6	91	0.00
65	T	1,2-Dibromoethane	50.000	46.292		7.4	88	0.00
66	T	1-Chlorohexane	50.000	49.988		0.0	92	0.00
67	P,T	Chlorobenzene	50.000	48.389		3.2	90	0.00
68	T	1,1,1,2-Tetrachloroethane	50.000	50.366		-0.7	91	0.00
69	C,T	Ethylbenzene	50.000	49.363		1.3	92	0.00
70	T	m-Xylene & p-Xylene	100.000	97.825		2.2	91	0.00
71	T	o-Xylene	50.000	48.456		3.1	90	0.00
72	T	Styrene	50.000	49.857		0.3	90	0.00
73	I	1,2-DICHLOROBENZENE-D4	50.000	50.000		0.0	94	0.00
74	T	Isopropylbenzene	50.000	50.345		-0.7	93	0.00
75	P,T	Bromoform	50.000	49.140		1.7	91	0.00
76	P,T	1,1,2,2-Tetrachloroethane	50.000	45.238		9.5	86	0.00
77	S	4-Bromofluorobenzene	50.000	53.451		-6.9	99	0.00
78	T	1,2,3-Trichloropropane	50.000	46.270		7.5	88	0.01
79	T	trans-1,4-Dichloro-2-butene	50.000	45.468		9.1	86	0.00
80	T	n-Propylbenzene	50.000	51.139		-2.3	94	0.00
81	T	Bromobenzene	50.000	48.717		2.6	90	0.00
82	T	1,3,5-Trimethylbenzene	50.000	49.873		0.3	93	0.00
83	T	2-Chlorotoluene	50.000	48.747		2.5	90	0.00
84	T	4-Chlorotoluene	50.000	50.216		-0.4	94	0.00
85	T	tert-Butylbenzene	50.000	50.876		-1.8	92	0.00
86	T	1,2,4-Trimethylbenzene	50.000	49.640		0.7	92	0.00
87	T	sec-Butylbenzene	50.000	51.085		-2.2	94	0.00
88	T	p-Isopropyltoluene	50.000	51.809		-3.6	95	0.00
89	T	1,3-Dichlorobenzene	50.000	49.181		1.6	92	0.00
90	T	1,4-Dichlorobenzene	50.000	48.988		2.0	92	0.00
91	T	Benzyl chloride	50.000	43.207		13.6	85	0.00
92	T	n-Butylbenzene	50.000	54.375		-8.8	98	0.00
93	T	1,2-Dichlorobenzene	50.000	47.540		4.9	90	0.00
94	T	1,2-Dibromo-3-chloropropane	50.000	45.929		8.1	87	0.00
95	T	1,2,4-Trichlorobenzene	50.000	52.817		-5.6	93	0.00
96	T	Hexachlorobutadiene	50.000	52.866		-5.7	99	0.00
97	T	Naphthalene	50.000	42.487		15.0	86	0.00
98	T	1,2,3-Trichlorobenzene	50.000	50.862		-1.7	90	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-DIFLUOROBENZENE	1.000	1.000	0.0	88	0.00
2	T	Dichlorodifluoromethane	0.303	0.318	-5.0	95	0.00
3	P,T	Chloromethane	0.317	0.310	2.2	99	0.00
4	C,T	Vinyl chloride	0.258	0.298	-15.5	98	0.01
5	T	Bromomethane	0.271	0.267	1.5	94	0.01
6	T	Chloroethane	0.259	0.273	-5.4	90	0.01
7	T	Dichlorofluoromethane	0.648	0.678	-4.6	92	0.01
8	T	Trichlorofluoromethane	0.476	0.529	-11.1	100	0.01
9	T	Acrolein	0.037	0.037	0.0	92	0.01
10	T	1,1,2-Trichloro-1,2,2-Trifl	0.202	0.228	-12.9	100	0.01
11	T	Acetone	0.095	0.069	27.4#	80	0.00
12	C,T	1,1-Dichloroethene	0.508	0.527	-3.7	91	0.01
13	T	tert-Butyl alcohol	0.030	0.021	30.0#	73	0.00
14	T	Acetonitrile	0.035	0.031	11.4	83	0.01
15	T	Methyl acetate	0.000	0.000	0.0	0#	0.00
16	T	Iodomethane	0.328	0.378	-15.2	80	0.00
17	T	Allyl chloride	0.136	0.141	-3.7	88	0.01
18	T	Methylene chloride	0.579	0.546	5.7	87	0.01
19	T	Carbon disulfide	1.079	0.996	7.7	88	0.00
20	T	Acrylonitrile	0.123	0.112	8.9	84	0.01
21	T	tert-Butyl methyl ether (MT	0.698	0.647	7.3	84	0.01
22	T	trans-1,2-Dichloroethene	0.543	0.546	-0.6	87	0.01
23	T	Isopropyl ether (DIPE)	1.390	1.338	3.7	84	0.00
24	T	Vinyl acetate	0.576	0.571	0.9	87	0.01
25	P,T	1,1-Dichloroethane	0.622	0.636	-2.3	89	0.01
26	T	tert-Butyl ethyl ether (ETB	1.148	1.082	5.7	84	0.01
27	T	2-Butanone	0.146	0.124	15.1	82	0.00
28	T	Propionitrile	0.045	0.041	8.9	85	0.01
29	T	2,2-Dichloropropane	0.414	0.449	-8.5	95	0.00
30	T	cis-1,2-Dichloroethene	0.319	0.325	-1.9	88	0.01
31	T	Isobutyl alcohol	0.013	0.011	15.4	76	0.00
32	T	Methacrylonitrile	0.053	0.051	3.8	88	0.01
33	C,T	Chloroform	0.511	0.527	-3.1	90	0.00
34	T	tert-Amyl alcohol (TAA)	0.000	0.000	0.0	0#	0.00
35	T	Bromochloromethane	0.354	0.351	0.8	86	0.01
36	T	Cyclohexane	0.000	0.000	0.0	0#	0.00
37	S	Dibromofluoromethane	0.321	0.337	-5.0	88	0.01
38	T	1,1,1-Trichloroethane	0.443	0.482	-8.8	94	0.01
39	T	tert-Amyl methyl ether (TAM	0.164	0.157	4.3	84	0.00
40	S	1,2-Dichloroethane-d4	0.324	0.332	-2.5	89	0.00
41	I	CHLOROBENZENE-D5	1.000	1.000	0.0	94	0.01
42	T	1,1-Dichloropropene	0.163	0.165	-1.2	91	0.00
43	T	Carbon tetrachloride	0.455	0.477	-4.8	97	0.00
44	T	1,2-Dichloroethane	0.470	0.443	5.7	89	0.01
45	T	Benzene	1.264	1.157	8.5	87	0.01
46	T	Trichloroethene	0.371	0.362	2.4	91	0.01
47	C,T	1,2-Dichloropropane	0.414	0.392	5.3	88	0.00
48	T	Methyl methacrylate	0.166	0.150	9.6	87	0.01
49	T	Methylcylohexane	0.000	0.000	0.0	0#	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	1,4-Dioxane	0.002	0.001	50.0#	62	0.00
51	T	Bromodichloromethane	0.432	0.424	1.9	91	0.01
52	T	Dibromomethane	0.186	0.177	4.8	88	0.01
53	T	2-Chloroethyl vinyl ether	0.197	0.165	16.2	80	0.00
54	T	4-Methyl-2-pentanone	0.386	0.321	16.8	83	0.00
55	T	cis-1,3-Dichloropropene	0.494	0.474	4.0	88	0.00
56	S	Toluene-d8	1.133	1.157	-2.1	93	0.00
57	C,T	Toluene	1.392	1.277	8.3	88	0.01
58	T	Ethyl methacrylate	0.328	0.301	8.2	85	0.00
59	T	trans-1,3-Dichloropropene	0.424	0.410	3.3	89	0.00
60	T	2-Hexanone	0.246	0.203	17.5	82	0.01
61	T	1,1,2-Trichloroethane	0.260	0.242	6.9	89	0.00
62	T	1,3-Dichloropropane	0.437	0.404	7.6	87	0.00
63	T	Tetrachloroethene	0.278	0.278	0.0	94	0.00
64	T	Dibromochloromethane	0.332	0.330	0.6	91	0.00
65	T	1,2-Dibromoethane	0.279	0.258	7.5	88	0.00
66	T	1-Chlorohexane	0.463	0.463	0.0	92	0.00
67	P,T	Chlorobenzene	0.935	0.905	3.2	90	0.00
68	T	1,1,1,2-Tetrachloroethane	0.332	0.335	-0.9	91	0.00
69	C,T	Ethylbenzene	1.541	1.521	1.3	92	0.00
70	T	m-Xylene & p-Xylene	1.195	1.169	2.2	91	0.00
71	T	o-Xylene	1.235	1.197	3.1	90	0.00
72	T	Styrene	0.961	0.958	0.3	90	0.00
73	I	1,2-DICHLOROBENZENE-D4	1.000	1.000	0.0	94	0.00
74	T	Isopropylbenzene	3.305	3.328	-0.7	93	0.00
75	P,T	Bromoform	0.428	0.421	1.6	91	0.00
76	P,T	1,1,2,2-Tetrachloroethane	0.700	0.633	9.6	86	0.00
77	S	4-Bromofluorobenzene	0.963	1.029	-6.9	99	0.00
78	T	1,2,3-Trichloropropane	0.200	0.185	7.5	88	0.01
79	T	trans-1,4-Dichloro-2-butene	0.263	0.239	9.1	86	0.00
80	T	n-Propylbenzene	3.927	4.017	-2.3	94	0.00
81	T	Bromobenzene	0.799	0.778	2.6	90	0.00
82	T	1,3,5-Trimethylbenzene	2.886	2.879	0.2	93	0.00
83	T	2-Chlorotoluene	2.543	2.480	2.5	90	0.00
84	T	4-Chlorotoluene	2.150	2.159	-0.4	94	0.00
85	T	tert-Butylbenzene	0.568	0.578	-1.8	92	0.00
86	T	1,2,4-Trimethylbenzene	2.858	2.837	0.7	92	0.00
87	T	sec-Butylbenzene	3.750	3.832	-2.2	94	0.00
88	T	p-Isopropyltoluene	2.996	3.105	-3.6	95	0.00
89	T	1,3-Dichlorobenzene	1.594	1.568	1.6	92	0.00
90	T	1,4-Dichlorobenzene	1.569	1.537	2.0	92	0.00
91	T	Benzyl chloride	0.813	0.882	-8.5	85	0.00
92	T	n-Butylbenzene	2.698	2.934	-8.7	98	0.00
93	T	1,2-Dichlorobenzene	1.463	1.391	4.9	90	0.00
94	T	1,2-Dibromo-3-chloropropane	0.129	0.118	8.5	87	0.00
95	T	1,2,4-Trichlorobenzene	0.814	0.860	-5.7	93	0.00
96	T	Hexachlorobutadiene	0.477	0.505	-5.9	99	0.00
97	T	Naphthalene	1.683	1.630	3.1	86	0.00
98	T	1,2,3-Trichlorobenzene	0.745	0.758	-1.7	90	0.00

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-DIFLUOROBENZENE	12.555	114	839670	50.00	ug/l	0.00
41) CHLOROBENZENE-D5	17.386	117	792641	50.00	ug/l	0.01
73) 1,2-DICHLOROBENZENE-D4	20.490	152	369328	50.00	ug/l	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	11.058	111	282591	52.48	ug/l	0.01
Spiked Amount 50.000			Recovery =	104.96%		
40) 1,2-Dichloroethane-d4	11.917	65	278411	51.15	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.30%		
56) Toluene-d8	15.207	98	917156	51.06	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.12%		
77) 4-Bromofluorobenzene	18.817	95	380055	53.45	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.90%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.608	85	266914	52.37	ug/l	99
3) Chloromethane	4.092	50	260002	48.83	ug/l	99
4) Vinyl chloride	4.323	62	249971	57.72	ug/l	99
5) Bromomethane	5.226	94	224019	49.15	ug/l	100
6) Chloroethane	5.380	64	229331	52.78	ug/L	100
7) Dichlorofluoromethane	5.457	67	569553	52.33	ug/L	100
8) Trichlorofluoromethane	5.897	101	444447	55.62	ug/l	99
9) Acrolein	6.722	56	156680	252.82	ug/l	100
10) 1,1,2-Trichloro-1,2,2-...	6.755	151	191366	56.40	ug/l	100
11) Acetone	6.821	43	289528	207.43	ug/l	100
12) 1,1-Dichloroethene	7.107	61	442577	51.84	ug/L	99
13) tert-Butyl alcohol	7.196	59	89128	179.46	ug/L	98
14) Acetonitrile	7.339	41	260273	446.03	ug/L	100
16) Iodomethane	7.702	142	317240	44.07	ug/L	99
17) Allyl chloride	7.801	76	118238	51.78	ug/L	99
18) Methylene chloride	8.010	49	458456	47.14	ug/l	99
19) Carbon disulfide	8.076	76	836386	46.16	ug/L	99
20) Acrylonitrile	8.219	53	470594	228.08	ug/l	99
21) tert-Butyl methyl ethe...	8.263	73	542902	46.29	ug/L	99
22) trans-1,2-Dichloroethene	8.560	61	458389	50.25	ug/l	100
23) Isopropyl ether (DIPE)	9.066	45	1123248	48.11	ug/l	100
24) Vinyl acetate	9.286	43	479568	49.57	ug/l	100
25) 1,1-Dichloroethane	9.331	63	534187	51.15	ug/l	100
26) tert-Butyl ethyl ether...	9.804	59	908434	47.11	ug/l	100
27) 2-Butanone	10.024	43	520878	212.66	ug/l	100
28) Propionitrile	10.167	54	342210	455.35	ug/L	99
29) 2,2-Dichloropropane	10.321	77	376726	54.21	ug/L	100
30) cis-1,2-Dichloroethene	10.409	96	272509	50.94	ug/L	98
31) Isobutyl alcohol	10.519	43	187846	839.49	ug/L	94
32) Methacrylonitrile	10.519	52	428941	481.22	ug/L	98
33) Chloroform	10.673	83	442876	51.59	ug/l	100
35) Bromochloromethane	10.981	49	295059	49.62	ug/l	99
38) 1,1,1-Trichloroethane	11.388	97	404923	54.49	ug/l	100
39) tert-Amyl methyl ether...	11.796	87	131980	47.97	ug/l	98
42) 1,1-Dichloropropene	11.653	110	131087	50.64	ug/L	99
43) Carbon tetrachloride	11.840	119	378427	52.51	ug/l	99
44) 1,2-Dichloroethane	12.082	62	351165	47.16	ug/l	100
45) Benzene	12.137	78	916894	45.76	ug/l	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration

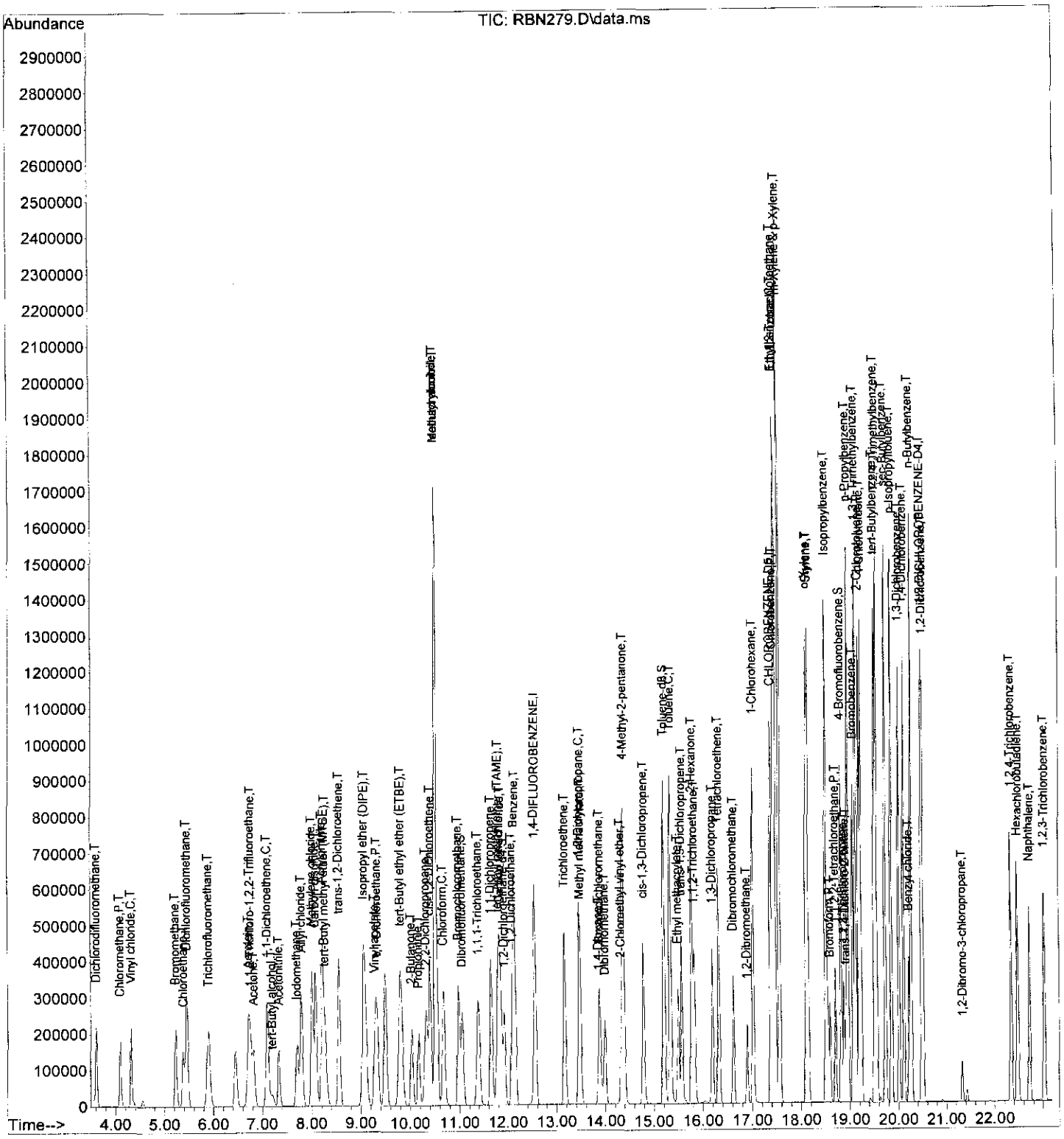
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
46) Trichloroethene	13.171	130	286833	48.81 ug/l	100
47) 1,2-Dichloropropane	13.468	63	311086	47.38 ug/L	99
48) Methyl methacrylate	13.490	69	118969	45.09 ug/L	99
50) 1,4-Dioxane	13.865	88	23154	660.28 ug/L	97
51) Bromodichloromethane	13.887	83	335839	49.05 ug/l	99
52) Dibromomethane	13.997	93	140188	47.50 ug/l	99
53) 2-Chloroethyl vinyl ether	14.327	63	131089	41.88 ug/l	99
54) 4-Methyl-2-pentanone	14.371	43	1273444	207.87 ug/l	100
55) cis-1,3-Dichloropropene	14.789	75	375376	47.95 ug/l	100
57) Toluene	15.339	91	1012067	45.87 ug/L	100
58) Ethyl methacrylate	15.493	69	238648	45.86 ug/L	100
59) trans-1,3-Dichloropropene	15.570	75	325058	48.37 ug/l	100
60) 2-Hexanone	15.780	43	803023	206.00 ug/l	100
61) 1,1,2-Trichloroethane	15.824	97	191653	46.56 ug/l	98
62) 1,3-Dichloropropane	16.198	76	320560	46.27 ug/l	99
63) Tetrachloroethene	16.319	164	220198	50.00 ug/l	100
64) Dibromochloromethane	16.616	129	261795	49.69 ug/l	100
65) 1,2-Dibromoethane	16.891	107	204888	46.29 ug/l	100
66) 1-Chlorohexane	17.023	91	366753	49.99 ug/l	99
67) Chlorobenzene	17.430	112	717535	48.39 ug/l	100
68) 1,1,1,2-Tetrachloroethane	17.463	131	265468	50.37 ug/l	100
69) Ethylbenzene	17.463	91	1205857	49.36 ug/l	99
70) m-Xylene & p-Xylene	17.562	91	1853963	97.82 ug/l	100
71) o-Xylene	18.113	91	948988	48.46 ug/l	99
72) Styrene	18.146	104	759264	49.86 ug/l	99
74) Isopropylbenzene	18.509	105	1228993	50.35 ug/l	99
75) Bromoform	18.597	173	155461	49.14 ug/l	99
76) 1,1,2,2-Tetrachloroethane	18.707	83	233768	45.24 ug/l	99
78) 1,2,3-Trichloropropane	18.883	110	68502	46.27 ug/l	94
79) trans-1,4-Dichloro-2-b...	18.916	53	88353	45.47 ug/l	100
80) n-Propylbenzene	18.960	91	1483483	51.14 ug/l	100
81) Bromobenzene	19.070	156	287399	48.72 ug/l	99
82) 1,3,5-Trimethylbenzene	19.125	105	1063178	49.87 ug/l	99
83) 2-Chlorotoluene	19.191	91	915779	48.75 ug/l	100
84) 4-Chlorotoluene	19.235	91	797393	50.22 ug/l	100
85) tert-Butylbenzene	19.510	134	213405	50.88 ug/l	99
86) 1,2,4-Trimethylbenzene	19.554	105	1047963	49.64 ug/l	100
87) sec-Butylbenzene	19.730	105	1415148	51.08 ug/l	100
88) p-Isopropyltoluene	19.862	119	1146646	51.81 ug/l	100
89) 1,3-Dichlorobenzene	20.017	146	579120	49.18 ug/l	99
90) 1,4-Dichlorobenzene	20.116	146	567806	48.99 ug/l	99
91) Benzyl chloride	20.226	91	325870	43.21 ug/l	100
92) n-Butylbenzene	20.270	91	1083446	54.37 ug/l	100
93) 1,2-Dichlorobenzene	20.512	146	513881	47.54 ug/l	100
94) 1,2-Dibromo-3-chloropr...	21.337	157	43701	45.93 ug/l	99
95) 1,2,4-Trichlorobenzene	22.339	180	317681	52.82 ug/l	100
96) Hexachlorobutadiene	22.482	225	186398	52.87 ug/l	99
97) Naphthalene	22.724	128	602163	42.49 ug/l	99
98) 1,2,3-Trichlorobenzene	23.032	180	279769	50.86 ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\11B17\
Data File : RBN279.D
Acq On : 17 Feb 2011 8:30 am
Operator : CGM
Sample : CVOF4B0908
Misc : 50ppb 8260/250ppb KET-AA-TBA
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 17 08:50:08 2011
Quant Method : C:\MSDCHEM\1\METHODS\VOF4B09.M
Quant Title : METHOD 8260 5mL
QLast Update : Fri Feb 11 06:46:41 2011
Response via : Initial Calibration



ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☐ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/9/11 ☑ 5-ml Purge ☐ 25-ml Purge

Book # AF4 -001

BATCH VOF4B096

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RBN135	BFBF4B09 10 CGM 2/10/11 ✓	5 A B	NA	NA	NA	NA	8260 TBN/Ket/AA 09:53
02	36	VOF4B091 ✓	.02 .1					1 5 ppb
03	37	2 ✓	.04 .2					2 10
04	38	3 ✓	.08 .4					4 20
05	39	4 ✓	.2 1					10 50
06	40	5 X	.4 2					20 100 bad purge
07	41	6 ✓	1 5					50 250
08	42	7 ✓	2 10					100 500
09	43	8 ✓	4 20					200 1000
10	44	9 ✓	6 30					300 1500
11	45	10 ✓	10 50					500 2500
12	46	IS/SS						
13	47	VOF4B10B	A B C					50 250
14	48	IVOF4B091	1 55					16:04
15	49	Rinse						
16								
17								
18								A = SS, Gases, CS2, Ket/AA
19								
20								B = 8260
21								
22								C = Ket/AA
23								
24								
25								
26								
27								
28								
29								
30								CGM 2/10/11

Instrument No.	F4
INITIAL CALIBRATION REFERENCE	
DATE	2/9/11
ICAL ID	VOF4B09

STANDARDS

NAME	ID	Amount (uL)	Conc. (mg/L)
DCC Gases	SM-17-2-1	*	250
DCC CS2 Ket/AA	-16-160-2 / -17-1-2		250 / 1250
DCC 8260	-16-95-2		50
BFB	-16-99-2	5	50
IS/SURR.	-16-99-2	5	50
ICV/LCS Gases	-16-99-1	*	250
ICV/LCS CS2 Ket/AA	-16-86-1 / -16-77-3		250 / 250
ICV/LCS 8260	-16-73-2		50
SOLVENT IS	-16-99-3 ID	5	50
METHANOL SS	-16-82-3	*	250
DATA FILE	11B09		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TOF4	

Comments:

* various amount

Analyzed By: CGM

Date Disposed: 2/10/11

Disposed By: CGM

2119

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/10/11 ☑ 5-ml Purge ☐ 25-ml Purge

Book # AF4 -001

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RBN150	BFBF4B11						0939
02	↓ 151	IVOF4B092						10:07
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								

BATCH IVOF4B092

Instrument No.	F4		
INITIAL CALIBRATION REFERENCE			
DATE	2/9/11		
ICAL ID	VOF4B09		
STANDARDS			
NAME	ID	Amount (µL)	Conc. (mg/L)
DCC			
DCC			
DCC			
BFB	SM-16-99-2	5	
IS/SURR.	-99-2	5	
ICV/LCS	-99-1	1	50/250
ICV/LCS	-84-1	5	
ICV/LCS	-77-3	5	
ICV/LCS	↓ -73-2	5	
SOLVENT	ID		
METHANOL			
DATA FILE	11B10		
Electronic Data Archival			
Location		Date	
HPCHEM_VOA/TOF4			

Comments:

Analyzed By: CGM

Date Disposed: 2/11/11

2150

EMAX LABORATORIES, INC.

ANALYSIS LOG FOR VOLATILES

SOP ☑ EMAX-8260 Rev.No. 6 ☐ EMAX-524.2 Rev.No. 5 ☐ EMAX-CLP-VOA ☐ EMAX-624 Rev.No. 2 ☐ EMAX-8260SIM Rev.No.0 ☐

Start Date: 2/17/11 ☑ 5-ml Purge ☐ 25-ml Purge

Book # AF4 -001

BATCH VOF4B2708

Sample Prep. ID	Data File Name	Lab Sample ID	Sample Amount	DF	Matrix W pH <2	Matrix W Cl <5ppm	Matrix S	Notes
01	RBN278	BFBF4B18						0802
02	79	CVOF4B0908						
03	80	VOF4B18L		1.0				
04	81	C						
05	82	B	5.0g					
06	83	VOF4B19L						
07	84	C						
08	85	B	5.0mL					
09	86	LOD 1/5	.02/.02 .1/.1 mL					
10	87	2/10	.04/.04 .2/.2 mL					
11	88	LOQ 4/5	.08/.08 .1/.4 mL					
12	89	5/10	.1/.1/.2/.5 mL					
13	90	VPB0175B	★	★				
14	91	11B186-12						1401
15	92	Rinse						
16	93							
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								CGM 2/18/11

Instrument No.	F4
INITIAL CALIBRATION REFERENCE	
DATE	2/9/11
ICAL ID	VOF4B09

STANDARDS

NAME	ID	Amount (ul)	Conc. (mg/L)
DCC	SV1-17-2-1	1	
DCC	-16-100-2 -17-1-3	1	
DCC	-16-95-2	5	
BFB	-16-99-2	5	80
IS/SURR.	-16-99-2	5	250
ICV/LCS	-16-97-1	1	
ICV/LCS	-16-80-1 -16-97-3	1	
ICV/LCS	-16-73-2	5	
SOLVENT	ID		
METHANOL			
DATA FILE	11B17		

Electronic Data Archival

Location	Date
HPCHEM_VOA/TOF4/11B09 - 11B17	2/22/11

Comments:

★ Refer to sample weight log.

Analyzed By: CGM

Date Disposed: 2/18/11

Disposed By: CGM

EXTRACTION LOGS

EMAX LABORATORIES, INC.

PRESERVATION LOG FOR VOLATILES

VP11B017

PrepBatchID	Lab Sample ID	W1 (g)	DateTime	Wf (g)	DateTime	ExpWs(g)	Ws(g)	Prep□Factor	Comments
VP11B01701	VPB017SB	31.64	2/17/11 12:54	36.64	2/17/11 12:54	5	5	1	
VP11B01702	VPB017SQ	31.88	2/17/11 12:55	36.88	2/17/11 12:55	5	5	1	
VP11B01703	11B186-12	31.68	2/17/11 12:57	37.22	2/17/11 12:57	5	5.54	0.9	

☑ EMAX-5035 Rev. 2 ☑ Balance Calibration Check performed prior to use — Surrogate ID: — Prepared By: RTORRALBA

☐ Encore+$NaHSO_4 \cdot H_2O$ ☑ BalanceID 25451062 — BlankSoil Lot#: SW1A-04-146 — Standard Added By: N/A

☑ Frozen Sample ☐ BalanceID 25650797 — NaHSO4H2O: — Witnessed By: CGM

☐ Pre-weighed vial — Expected Ws(g): 5 — Extract Rcvd By: CGM

☑ Volumetric dispenser was checked with 5-ml volumetric flask — Sample Location: VW05

W1=Weight of Vial + Stirrer+NaHSO4•H2O+Solvent Wf=W1 + Sample

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-23-4	ULTRA VOC Gas Mixture	2000 ppm	1.25 mL	250 ppm
SV1-12-25-19	CPI Vinyl Acetate	2500 ppm	1.0 mL	250 ppm
				2/2/11

Standard ID	SV1-17-02-01
Name	Gases 1°
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/2/11
Exp. Date	8/2/11
Prepared By	SD

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 Int. Std	2500 ppm	1 mL	250 ppm
SV1-12-24-10	8260A SURR Mix	2500 ppm	1 mL	250 ppm
			DN 2/3/11	

Standard ID	SV1-17-02-02
Name	IS/SS
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/3/11
Exp. Date	8/3/11
Prepared By	DN

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 Int. Std	2500 ppm	1 mL	250 ppm
SV1-12-24-10	8260A SURR-MIX	2500 ppm	1 mL	250 ppm
			DN 2/3/11	

Standard ID	SV1-17-02-03
Name	IS/SS
Final Volume	10 mL
Solvent/Lot #	SW1A-04-234
Prep. Date	2/3/11
Exp. Date	8/3/11
Prepared By	DN

Comments:

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 IS Mix	2500 ppm	40 µl	20 ppm
SV1-12-24-10	8260A surr Mix	2500 ppm	40 µl	20 ppm
			DM	1/28/11

Standard ID	SV1-16-100-1
Name	IS/SS E2
Final Volume	5 ml
Solvent /Lot #	SW1A-04-234
Prep. Date	1/28/11
Exp. Date	7/28/11
Prepared By	DM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	CS2 Solution	5000 ppm	500 µl	250 ppm
			CGM 2/2/11	

Standard ID	SV1-16-100-2
Name	CS2 1°
Final Volume	10 ml
Solvent /Lot #	SW1A-04-234
Prep. Date	2/2/11
Exp. Date	8/2/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-13	CS2 Solution	5000 ppm	500 µl	250 ppm
			CGM 2/2/11	

Standard ID	SV1-16-100-3
Name	CS2 1°
Final Volume	10 ml
Solvent /Lot #	SW1A-04-234
Prep. Date	2/2/11
Exp. Date	8/2/11
Prepared By	CGM
Comments	

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

BookNo: SV1-17

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-18	Vinyl Acetate	1000 ppm	2.5 ml	250 ppm
↓ -25-9	VOC Mix 6	2000 ppm	1.25 ml	↓
			CGM 2/2/11	

Standard ID	SV1-17-01-01
Name	Gases 2°
Final Volume	10 ml
Solvent/Lot #	SWIA-04-234
Prep. Date	2/2/11
Exp. Date	8/2/11
Prepared By	CGM

Comments:

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-7	VOA Calibration Mix #1	5000 ppm	500 ml	1250 ppm
↓ -24-20	Acrolein/Acrylonitrile	↓	↓	↓
			CGM 2/2/11	

Standard ID	SV1-17-01-02
Name	Ket/AA 1°
Final Volume	2.0 ml
Solvent/Lot #	SWIA-04-234
Prep. Date	2/2/11
Exp. Date	3/21/11 *
Prepared By	CGM

Comments:
* AA expires.

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-7	VOA Calibration Mix #1	5000 ppm	500 ml	250 ppm
↓ -24-20	Acrolein/Acrylonitrile	↓	↓	↓
			CGM 2/2/11	

Standard ID	SV1-17-01-03
Name	Ket/AA 1°
Final Volume	10 ml
Solvent/Lot #	SWIA-04-234
Prep. Date	2/2/11
Exp. Date	3/21/11 *
Prepared By	CGM

Comments:
* AA expires.

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-19	1-Chlorohexane	2000 ppm	250 µL	50 ppm
-23-9	2CEVE	2000		50
-22-20 CGM 1/14/11	O.G.A.S.	2K/10K		50/250
-23-5	Custom VOA ~~8260~~ Mix CGM 1/14/11	2K/20K/40K		50/500/1000
			CGM 1/14/11	

Standard ID	SV1-16-95-1
Name	8260 1°
Final Volume	10 mL
Solvent /Lot #	SWIA-04-234
Prep. Date	1/14/11
Exp. Date	7/14/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-19	1-Chlorohexane	2000 ppm	250 µL	50 ppm
-23-9	2CEVE	2000		50
-22-20	O.G.A.S.	2K/10K		50/250
-23-5	Custom VOA Mix	2K/20K/40K		50/500/1000
			CGM 1/14/11	

Standard ID	SV1-16-95-2
Name	8260 1°
Final Volume	10 mL
Solvent /Lot #	SWIA-04-234
Prep. Date	1/14/11
Exp. Date	7/14/11
Prepared By	CGM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-272	TETRAHYDROFURAN	2000 ppm	250 ul	250 ppm
			CR 1/14/11	

Standard ID	SV1-16-95-3
Name	THF
Final Volume	2 mL
Solvent /Lot #	SWIA-04-234
Prep. Date	1/14/11
Exp. Date	7/14/11
Prepared By	CR

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-22-16	Supelco VOC Mix 6	2000ppm	1.25 mL	250ppm
SV1-12-25-13	SPEX Vinyl Acetate	1000ppm	2.5 mL	250ppm
				sd 1/24/11

Standard ID	SV1-16- 99 -1
Name	Gases 20
Final Volume	10 mL
Solvent /Lot #	SWA-04-234
Prep. Date	1/24/11
Exp. Date	7/24/11
Prepared By	sd
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 IS Mix	2500 ppm	200 µL	50 ppm
↓ -10	8260A Surrogate Mix	↓	↓	↓
				CGM 1/27/11

Standard ID	SV1-16- 99 -2
Name	F4 I.S / J.S
Final Volume	10 mL
Solvent /Lot #	SWA-04-234
Prep. Date	1/27/11
Exp. Date	7/27/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 IS Mix	2500 ppm	200 µL	50 ppm
				CGM 1/27/11

Standard ID	SV1-16- 99 -3
Name	F4 I.S.
Final Volume	10 mL
Solvent /Lot #	SWA-04-234
Prep. Date	1/27/11
Exp. Date	7/27/11
Prepared By	CGM
Comments	

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	CS_2 Solution	5000 ppm	500 µL	250 ppm
			CGM 1/10/11	

Standard ID	SV1-16-86-1
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	7/10/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-6	CS_2 Solution	5000 ppm	500 µL	250 ppm
			CGM 1/10/11	

Standard ID	SV1-16-86-2
Name	CS_2 2°
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/10/11
Exp. Date	7/10/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-4	Acrolein-Acrylonitrile	5000 ppm	500 µL	250 ppm
↓-21-9	VOA Calibration Mix 1	↓	↓	↓
			CGM 1/10/11	

Standard ID	SV1-16-86-3
Name	Ket/AA 2° 1° CGM 1/10/11
Final Volume	10 mL
Solvent /Lot #	SW1A-02-234
Prep. Date	1/10/11
Exp. Date	3/21/11
Prepared By	CGM
Comments	

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-16-47-1	Methyl Cyclohexane	50,000 ppm	10 ul	250 ppm
-47-2	Cyclohexane	50,000 ppm	10 ul	250 ppm
-76-3	Methyl acetate	50,000 ppm	10 ul	250 ppm
			DM 12/9/10	

Standard ID	SV1-16-77-1
Name	3 add cmpd 1°
Final Volume	2 ml
Solvent /Lot #	SWA-04-230
Prep. Date	12/9/10
Exp. Date	3/9/11
Prepared By	DM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-74-3	Custom 8260 Int.	2500 ppm	1.0 ml	250 ppm
SV1-12-22-13	8260A surr	2500 ppm	1.0 ml	250 ppm
			DM 12/15/10	

Standard ID	SV1-16-77-2
Name	IS/SS
Final Volume	10 ml
Solvent /Lot #	SWA-04-234
Prep. Date	12/15/10
Exp. Date	6/15/11
Prepared By	DM

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-25-8	Tex Vol Mix 1	2000 ppm	1.25 ml	250 ppm
SV1-12-25-2	Acrolein Acrylonitrile	2000 ppm	1.25 ml	250 ppm
			DM 12/20/10	

Standard ID	SV1-16-77-3
Name	Ket 2°
Final Volume	10 ml
Solvent /Lot #	SWA-04-234
Prep. Date	12/20/10
Exp. Date	3/31/11
Prepared By	DM

Comments

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-6	Carbon disulfide	5000ppm	0.5 ml	250 ppm
			DH 12/3/10	

Standard ID	SV1-16-73 -1
Name	CS2 2°
Final Volume	10 ml
Solvent /Lot #	CWIA-04-234
Prep. Date	12/3/10
Exp. Date	6/3/11
Prepared By	DH
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1000ppm	500 ul	50 ppm
-350	1-chlorohexane *	1k ppm	250 ul	↓
-21-50	Cal. oxy. gas	2k-10k ppm	↓	50/250 ppm
-23-11	Custom Hydrocarbon mix	2k-10k ppm		50/500/1000 ppm
		MW 12/3/10		

Standard ID	SV1-16-73 -2
Name	HCO 2°
Final Volume	10 ml
Solvent /Lot #	CWIA-04-234
Prep. Date	12/3/10
Exp. Date	3/4/11 *
Prepared By	MW
Comments	* exp. date

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-21-5	1-chlorohexane	1k ppm	500 ul	50 ppm
-350	1-chlorohexane *	2k ppm	250 ul	↓
-21-50	Cal. oxy. gas	2k/10k ppm	↓	50/250 ppm
-23-11	Custom Hydrocarbon mix	2k/10k ppm		50/500/1000 ppm
		MW 12/3/10		

Standard ID	SV1-16-73 -3
Name	HCO 2°
Final Volume	10 ml
Solvent /Lot #	CWIA-04-234
Prep. Date	12/3/10
Exp. Date	3/4/11 *
Prepared By	MW
Comments	* exp. date

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV1-16

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-16-81-3	2-Butanol Tnt.	50,000 ppm	250 µL	1250 ppm
			CGM 1/5/11	

Standard ID	SV1-16-82-1
Name	2-Butanol.
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-3	Custom 8260 15 Mix	2500 ppm	1.0 mL	250 ppm
			CGM 1/5/11	

Standard ID	SV1-16-82-2
Name	8260 15
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM
Comments	

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV1-12-24-1D	8260A Surr Mix	2500 ppm	1.0 mL	250 ppm
			CGM 1/5/11	

Standard ID	SV1-16-82-3
Name	8260 SS
Final Volume	10 mL
Solvent /Lot #	SW1A-04-234
Prep. Date	1/5/11
Exp. Date	7/5/11
Prepared By	CGM
Comments	

RAW DATA
TPH – PURGE AND TRAP

LABORATORY REPORT FOR

TETRA TECH EMI

OPHA MOFFETT

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

SDG#: 11B186

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

One (1) soil sample was received on 02/17/11 for TPH Gasoline analysis, Method 5035/M8015 in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for GMB009SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogate was added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : GCT039

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	GMB009SB	1	NA	02/18/1118:18	02/18/1118:18	EB16078A	EB16070A	GMB009S	Method Blank
LCS1S	GMB009SL	1	NA	02/18/1116:55	02/18/1116:55	EB16076A	EB16070A	GMB009S	Lab Control Sample (LCS)
LCD1S	GMB009SC	1	NA	02/18/1117:37	02/18/1117:37	EB16077A	EB16070A	GMB009S	LCS Duplicate
SSI-SS-001	B186-12	1	19.8	02/18/1121:04	02/18/1121:04	EB16082A	EB16070A	GMB009S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : TETRA TECH EMI	Date Collected: 02/16/11
Project : OPHA MOFFETT	Date Received: 02/17/11
Batch No. : 11B186	Date Extracted: 02/18/11 21:04
Sample ID: SSI-SS-001	Date Analyzed: 02/18/11 21:04
Lab Samp ID: B186-12	Dilution Factor: 1
Lab File ID: EB16082A	Matrix : SOIL
Ext Btch ID: GMB009S	% Moisture : 19.8
Calib. Ref.: EB16070A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS	ND	1.2	0.62

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	2.18	2.494	87.4	70-130

Parameter	H-C Range
Gasoline	C6-C10

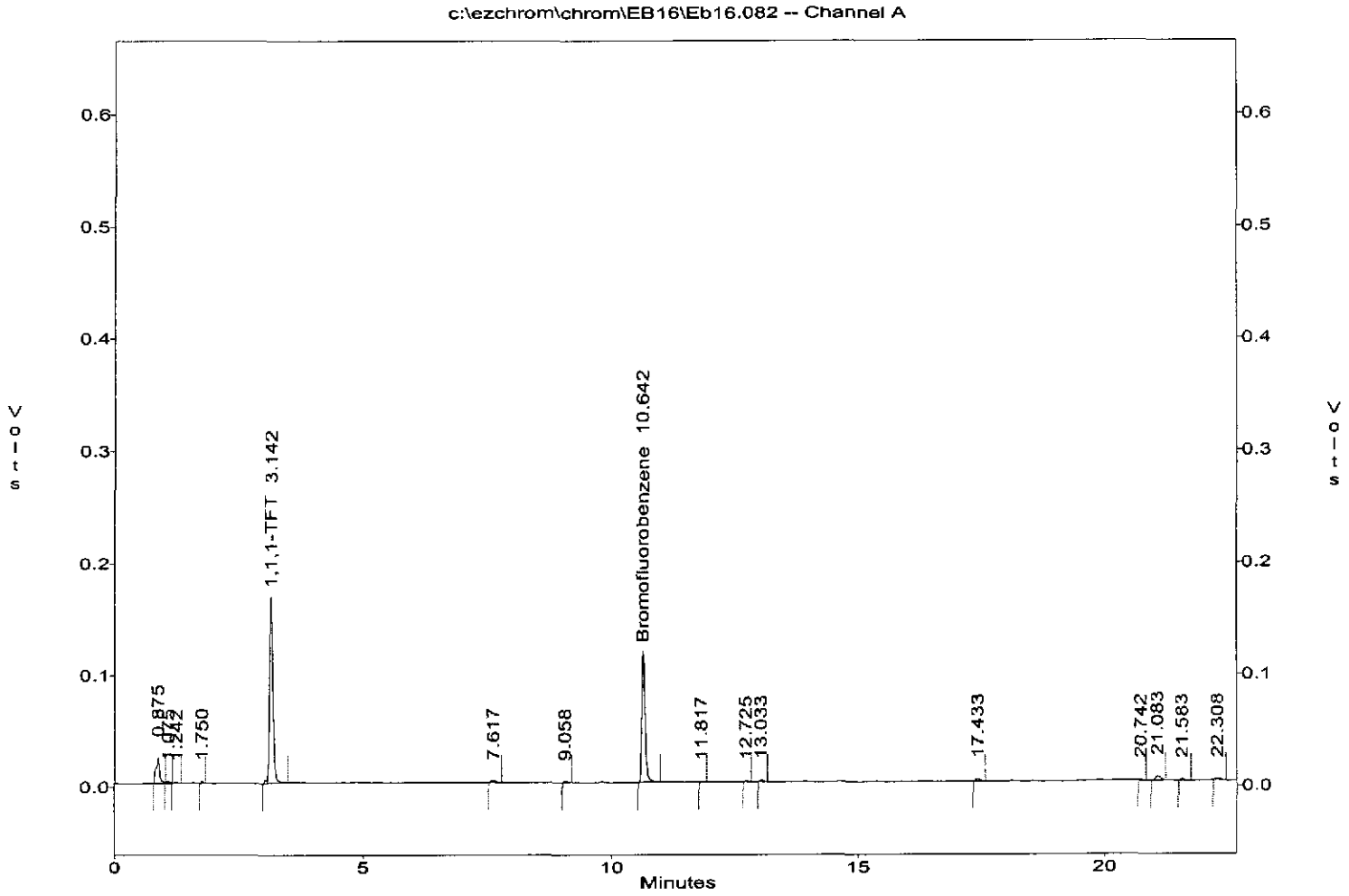
METHANOL EXTRACTION: 02/18/11 11:51

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\EB16\Eb16.082
Method : c:\ezchrom\methods\Vg39b16.met
Sample ID : 11B186-12 100UL S
Acquired : Feb 18, 2011 21:04:28
Printed : Feb 18, 2011 21:27:12
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
5	1,1,1-TFT	3.142	787788.0	22131.0	35.60
8	Bromofluorobenzene	10.642	539608.0	15439.1	34.95
G1	GASOLINE(TOTAL)		47559.0	15801.0	3.01
G2	GRO(C6-C10)		24811.0	13749.3	1.80
G3	GRO(2MP-124TMB)		24811.0	13874.1	1.79
G4	GRO(C5-C12)		47559.0	15746.0	3.02
G5	GRO(C6-C12)		42178.0	15344.1	2.75



QC SUMMARIES

METHOD 5035/M8015
TOTAL PETROLEUM HYDROCARBONS BY PURGE AND TRAP

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 02/18/11
Batch No. : 11B186	Date Extracted: 02/18/11 18:18
Sample ID: MBLK1S	Date Analyzed: 02/18/11 18:18
Lab Samp ID: GMB009SB	Dilution Factor: 1
Lab File ID: EB16078A	Matrix : SOIL
Ext Btch ID: GMB009S	% Moisture : NA
Calib. Ref.: EB16070A	Instrument ID : GCT039

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
GASOLINE RANGE ORGANICS	ND	1.0	0.50

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOFLUOROBENZENE	1.88	2.000	94.0	70-130

Parameter	H-C Range
Gasoline	C6-C10

METHANOL EXTRACTION: 02/18/11 11:51

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 5035/M8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	GMB009SB	GMB009SL	GMB009SC		
LAB FILE ID:	EB16078A	EB16076A	EB16077A		
DATE EXTRACTED:	02/18/1118:18	02/18/1116:55	02/18/1117:37	DATE COLLECTED:	NA
DATE ANALYZED:	02/18/1118:18	02/18/1116:55	02/18/1117:37	DATE RECEIVED:	02/18/11
PREP. BATCH:	GMB009S	GMB009S	GMB009S		
CALIB. REF:	EB16070A	EB16070A	EB16070A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Gasoline Range Organics	ND	25.0	21.9	88	25.0	21.8	87	1	70-130	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromofluorobenzene	2.00	2.07	103	2.00	2.08	104	70-130

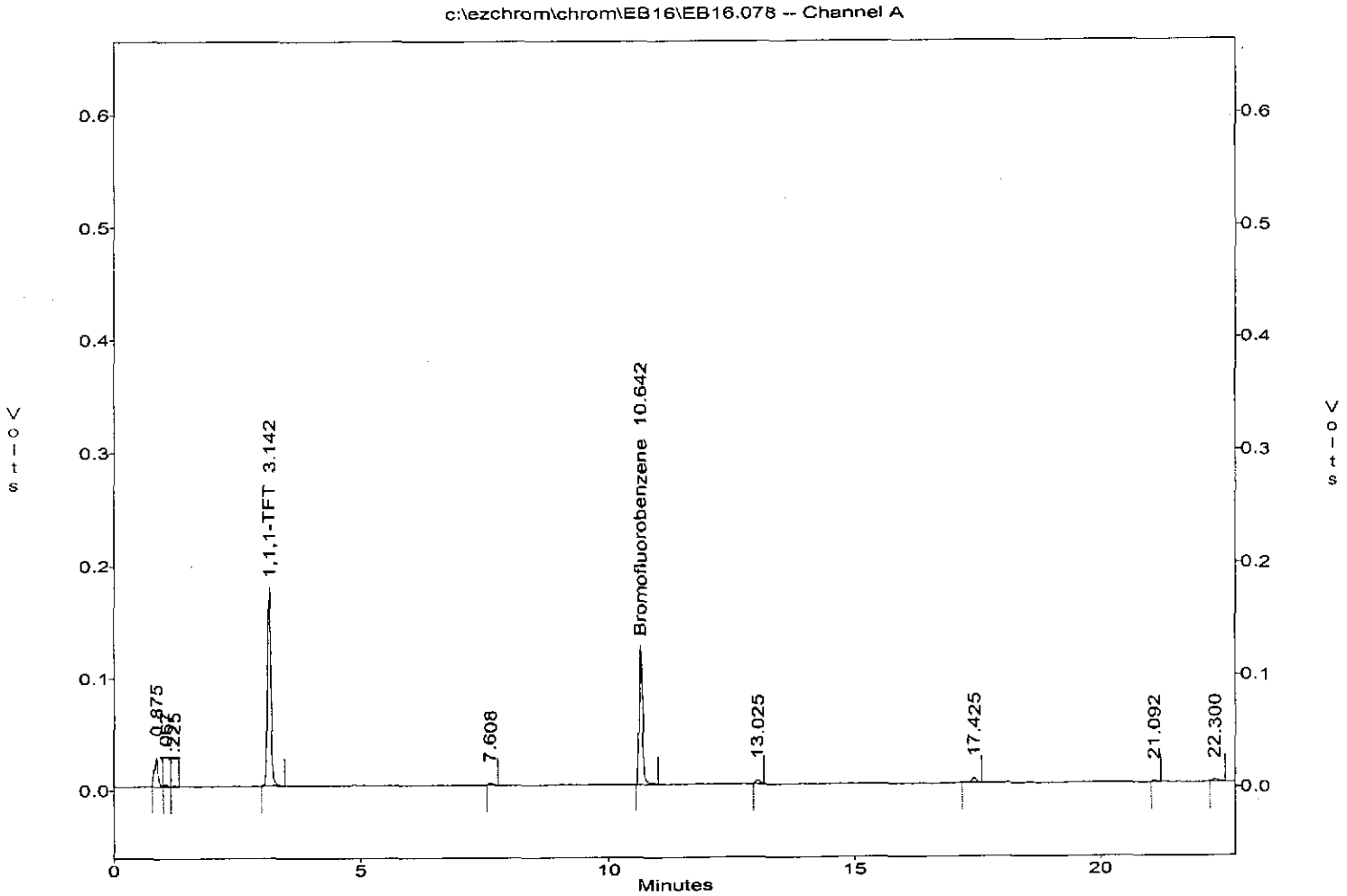
QC DATA

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\EB16\EB16.078
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : GMB009SB 100UL S
Acquired : Feb 18, 2011 18:18:32
Printed : Mar 01, 2011 15:29:39
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
4	1,1,1-TFT	3.142	835328.0	22131.0	37.74
6	Bromofluorobenzene	10.642	580325.0	15439.1	37.59
G1	GASOLINE(TOTAL)		63124.0	15801.0	3.99
G2	GRO(C6-C10)		8822.0	13749.3	0.64
G3	GRO(2MP-124TMB)		8822.0	13874.1	0.64
G4	GRO(C5-C12)		63124.0	15746.0	4.01
G5	GRO(C6-C12)		58188.0	15344.1	3.79

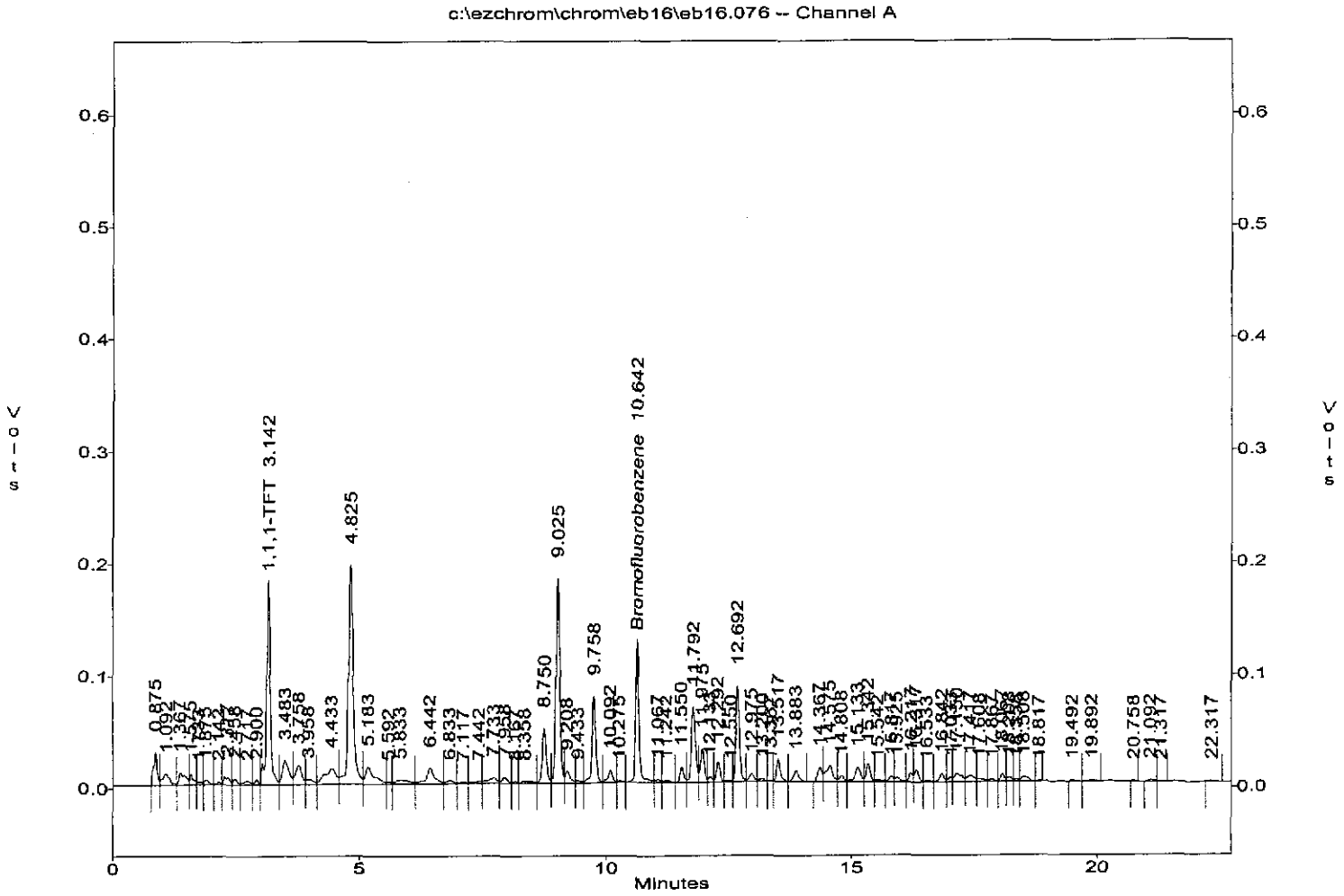


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.076
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : GMB009SL 100UL S
Acquired : Feb 18, 2011 16:55:32
Printed : Feb 18, 2011 17:24:56
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.142	970830.0	22131.0	43.87
36	Bromofluorobenzene	10.642	638574.0	15439.1	41.36
G1	GASOLINE(TOTAL)		7389635.0	15801.0	467.67
G2	GRO(C6-C10)		6029521.0	13749.3	438.53
G3	GRO(2MP-124TMB)		6024698.0	13874.1	434.24
G4	GRO(C5-C12)		7377155.0	15746.0	468.51
G5	GRO(C6-C12)		7233127.0	15344.1	471.39

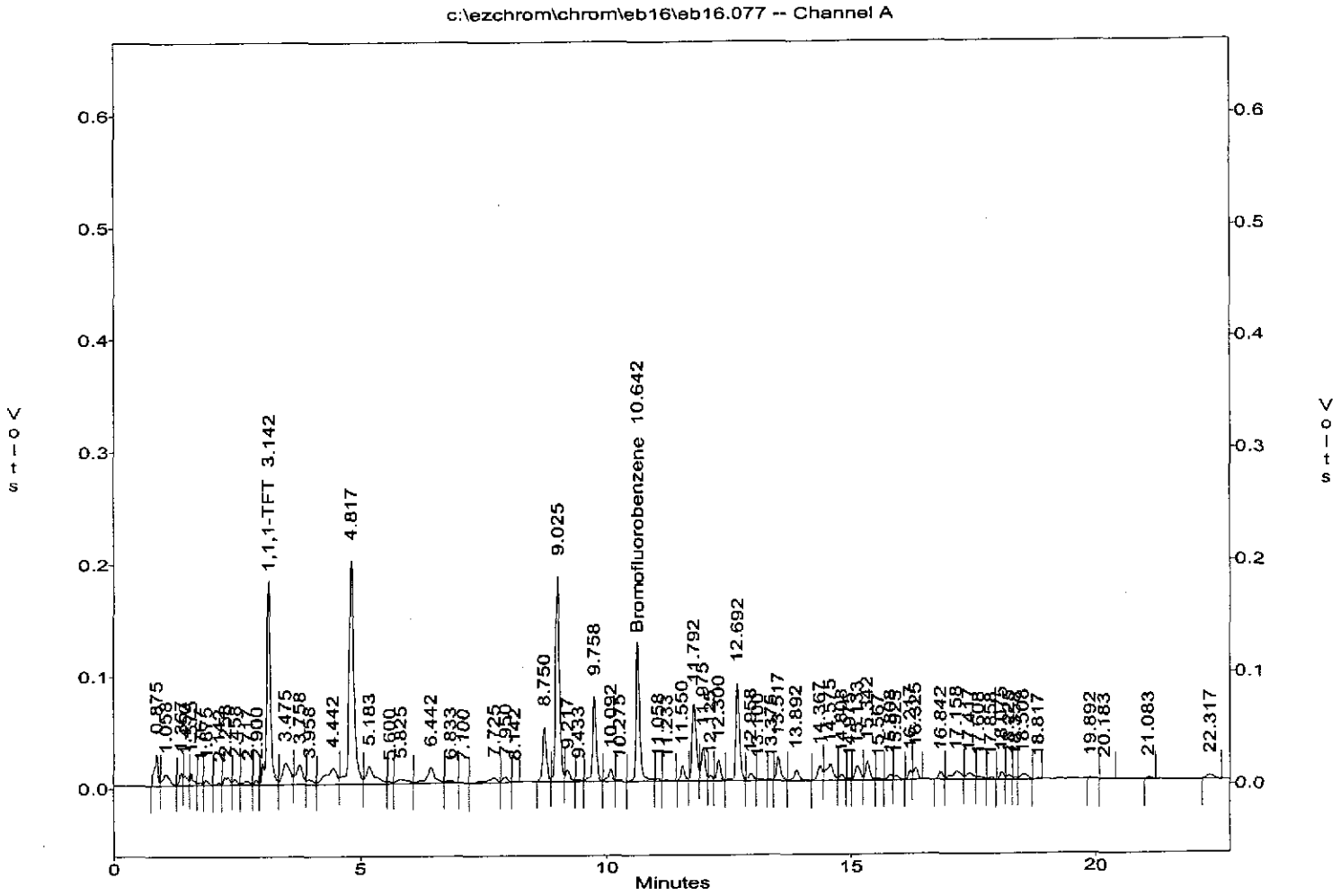


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.077
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : GMB009SC 100UL S
Acquired : Feb 18, 2011 17:37:03
Printed : Feb 18, 2011 18:00:43
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.142	985335.0	22131.0	44.52
35	Bromofluorobenzene	10.642	642644.0	15439.1	41.62
G1	GASOLINE(TOTAL)		7361767.0	15801.0	465.90
G2	GRO(C6-C10)		5984133.0	13749.3	435.23
G3	GRO(2MP-124TMB)		5987503.0	13874.1	431.56
G4	GRO(C5-C12)		7358398.0	15746.0	467.32
G5	GRO(C6-C12)		7209497.0	15344.1	469.85



INITIAL CALIBRATION

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
LFID & Datetime: EB16006A 02/16/11 16:22
LFID & Datetime: EB16007A 02/16/11 17:04
LFID & Datetime: EB16008A 02/16/11 17:46
LFID & Datetime: EB16009A 02/16/11 18:27
LFID & Datetime: EB16010A 02/16/11 19:09
LFID & Datetime: EB16011A 02/16/11 19:50
LFID & Datetime: EB16012A 02/16/11 20:32
CONC UNIT: ppb

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.50X	5.00X	25.00X	50.00X	100.00X	125.00X	MEAN	%RSD
Gasoline(TOTAL)	20.00	15183	15966	16457	16332	15100	15785	15785	15801.0	3.3
GRO(C6-C10)	20.00	13271	13222	14521	14393	13281	13847	13710	13749.3	3.9
GRO(2MP-124TMB)	20.00	13629	13388	14663	14429	13338	13907	13765	13874.1	3.6
GRO(C5-C12)	20.00	15183	15605	16457	16327	15100	15775	15776	15746.0	3.3
GRO(C6-C12)	20.00	14378	15120	16018	16060	14834	15496	15502	15344.1	4.0
SURROGATE	**X**	**1.00X**	**2.00X**	**3.00X**	**4.00X**	**5.00X**	**7.50X**	**10.00X**	**MEAN**	**%RSD**
Bromofluorobenzene	10.00	12813	13615	14460	16582	16751	17008	16844	15439.1	11.4
1,1,1-Trifluorotoluene	10.00	19666	20618	21205	22624	23382	24059	23364	22131.0	7.4

VG39B16.MET

AS
02/18/11

INITIAL CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
LFID & Datetime: EB16006A 02/16/11 16:22
LFID & Datetime: EB16007A 02/16/11 17:04
LFID & Datetime: EB16008A 02/16/11 17:46
LFID & Datetime: EB16009A 02/16/11 18:27
LFID & Datetime: EB16010A 02/16/11 19:09
LFID & Datetime: EB16011A 02/16/11 19:50
LFID & Datetime: EB16D12A 02/16/11 20:32

COMPOUND	RT OF STANDARDS (MIN) 1.0X	2.5X	5.0X	25.0X	50.0X	100.0X	125.0X	MEAN RT	RT WINDOW FROM	TO	RTWINDOW WIDTH
Gasoline(TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO(C6-C10)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO(2MP-124TMB)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO(C5-C12)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
GRO(C6-C12)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SURROGATE	**1.0X**	**2.0X**	**3.0X**	**4.0X**	**5.0X**	**7.5X**	**10.0X**	**RT**	**FROM**	**TO**	**WIDTH**
Bromofluorobenzene	10.675	10.667	10.667	10.658	10.658	10.658	10.658	10.663	10.610	10.716	0.053
1,1,1-Trifluorotoluene	3.167	3.167	3.158	3.150	3.158	3.158	3.158	3.159	3.058	3.260	0.101

VG39B16.MET

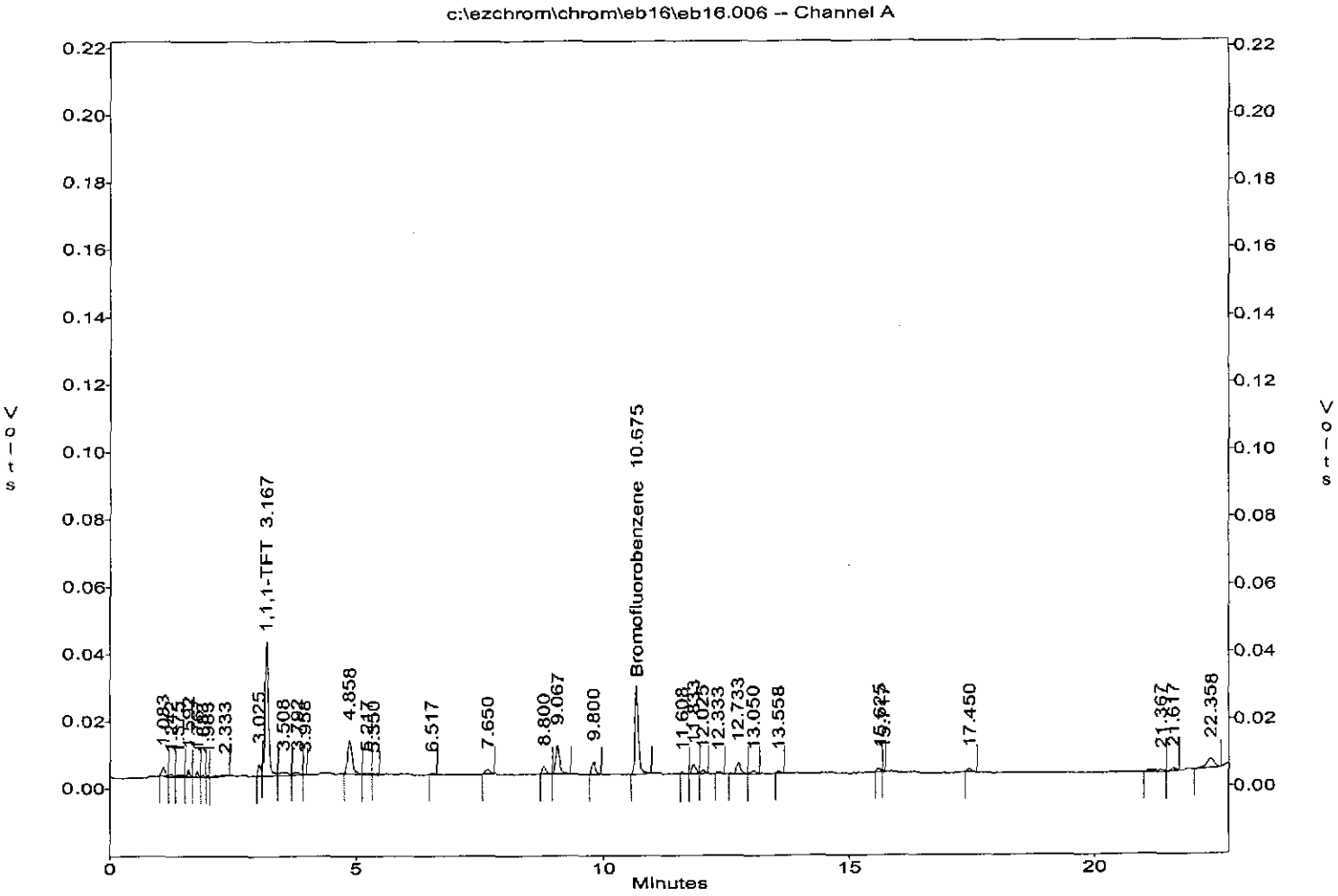
AB
02/18/11

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.006
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-01 20/10
Acquired : Feb 16, 2011 16:22:40
Printed : Feb 17, 2011 17:13:32
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
10	1,1,1-TFT	3.167	196655.0	22131.0	10.00
22	Bromofluorobenzene	10.675	128129.0	15439.1	10.00
G1	GASOLINE(TOTAL)		303653.0	15801.0	20.00
G2	GRO(C6-C10)		265425.0	13749.3	20.00
G3	GRO(2MP-124TMB)		272575.0	13874.1	20.00
G4	GRO(C5-C12)		303653.0	15746.0	20.00
G5	GRO(C6-C12)		287557.0	15344.1	20.00

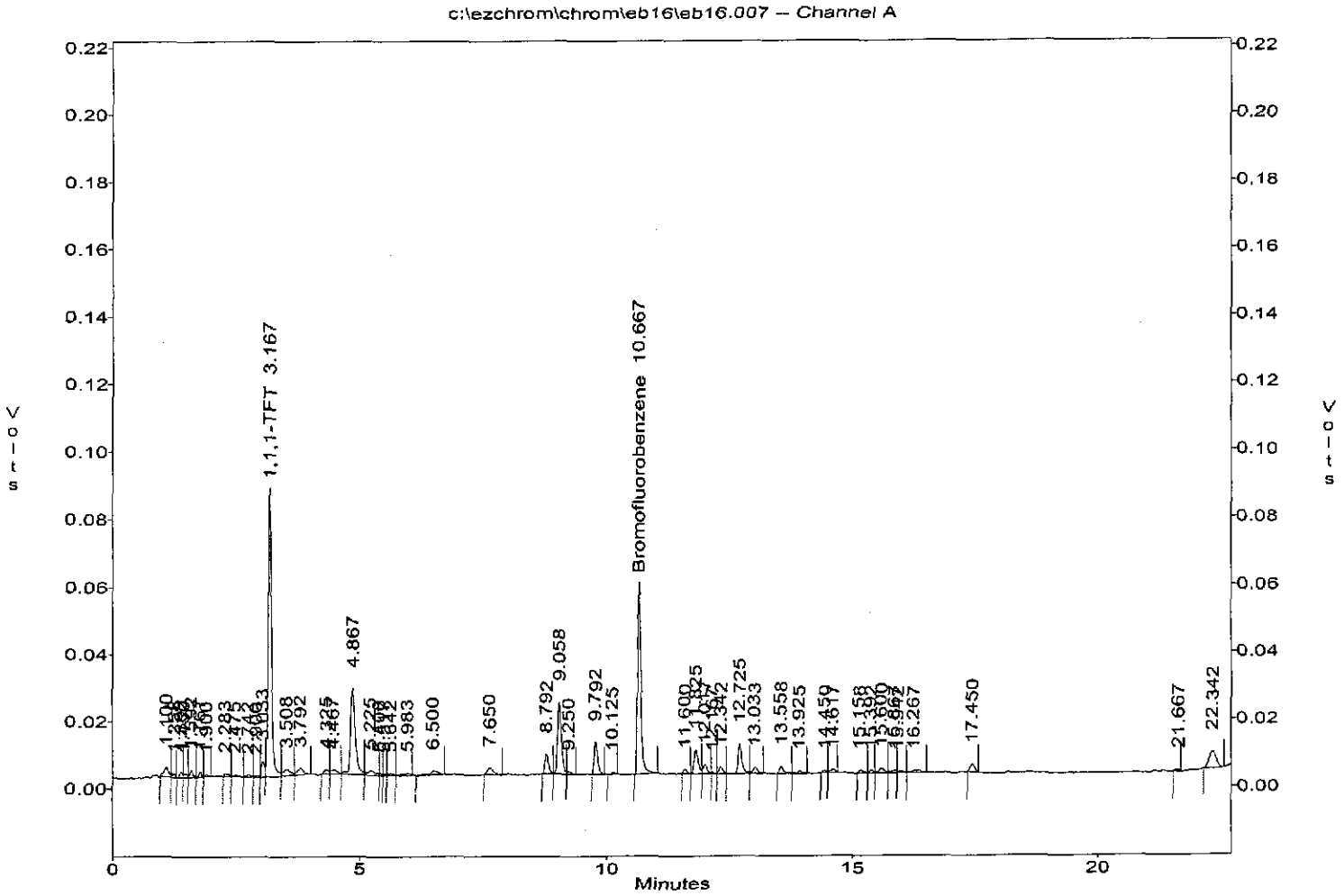


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.007
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-02 50/20
Acquired : Feb 16, 2011 17:04:34
Printed : Feb 17, 2011 17:14:49
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.167	412361.0	22131.0	20.00
31	Bromofluorobenzene	10.667	272300.0	15439.1	20.00
G1	GASOLINE(TOTAL)		798321.0	15801.0	50.00
G2	GRO(C6-C10)		661112.0	13749.3	50.00
G3	GRO(2MP-124TMB)		669405.0	13874.1	50.00
G4	GRO(C5-C12)		780239.0	15746.0	50.00
G5	GRO(C6-C12)		756000.0	15344.1	50.00

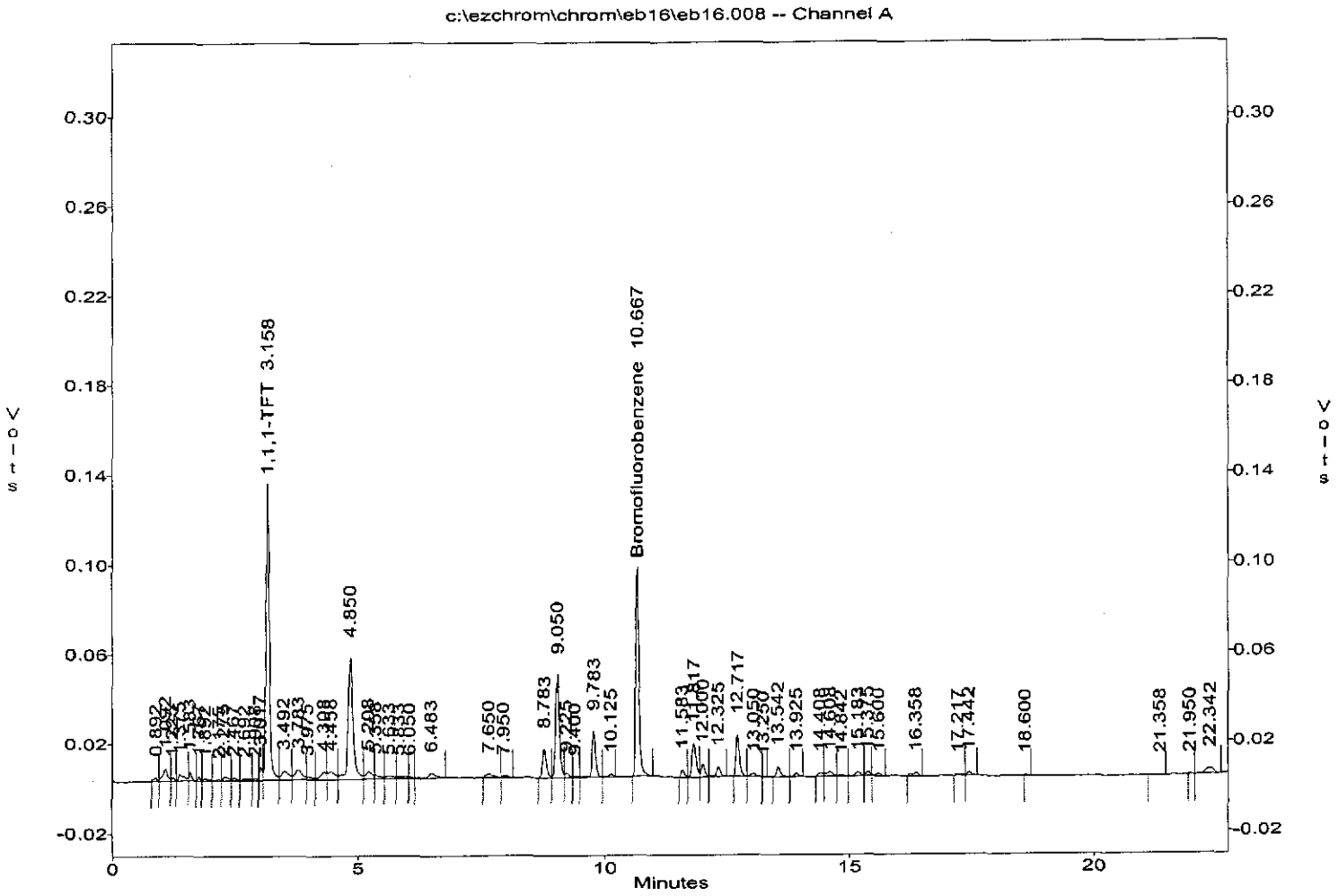


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.008
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-03 100/30
Acquired : Feb 16, 2011 17:46:19
Printed : Feb 17, 2011 17:15:16
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.158	636138.0	22131.0	30.00
35	Bromofluorobenzene	10.667	433799.0	15439.1	30.00
G1	GASOLINE(TOTAL)		1645655.0	15801.0	100.00
G2	GRO(C6-C10)		1452058.0	13749.3	100.00
G3	GRO(2MP-124TMB)		1466323.0	13874.1	100.00
G4	GRO(C5-C12)		1645655.0	15746.0	100.00
G5	GRO(C6-C12)		1601821.0	15344.1	100.00

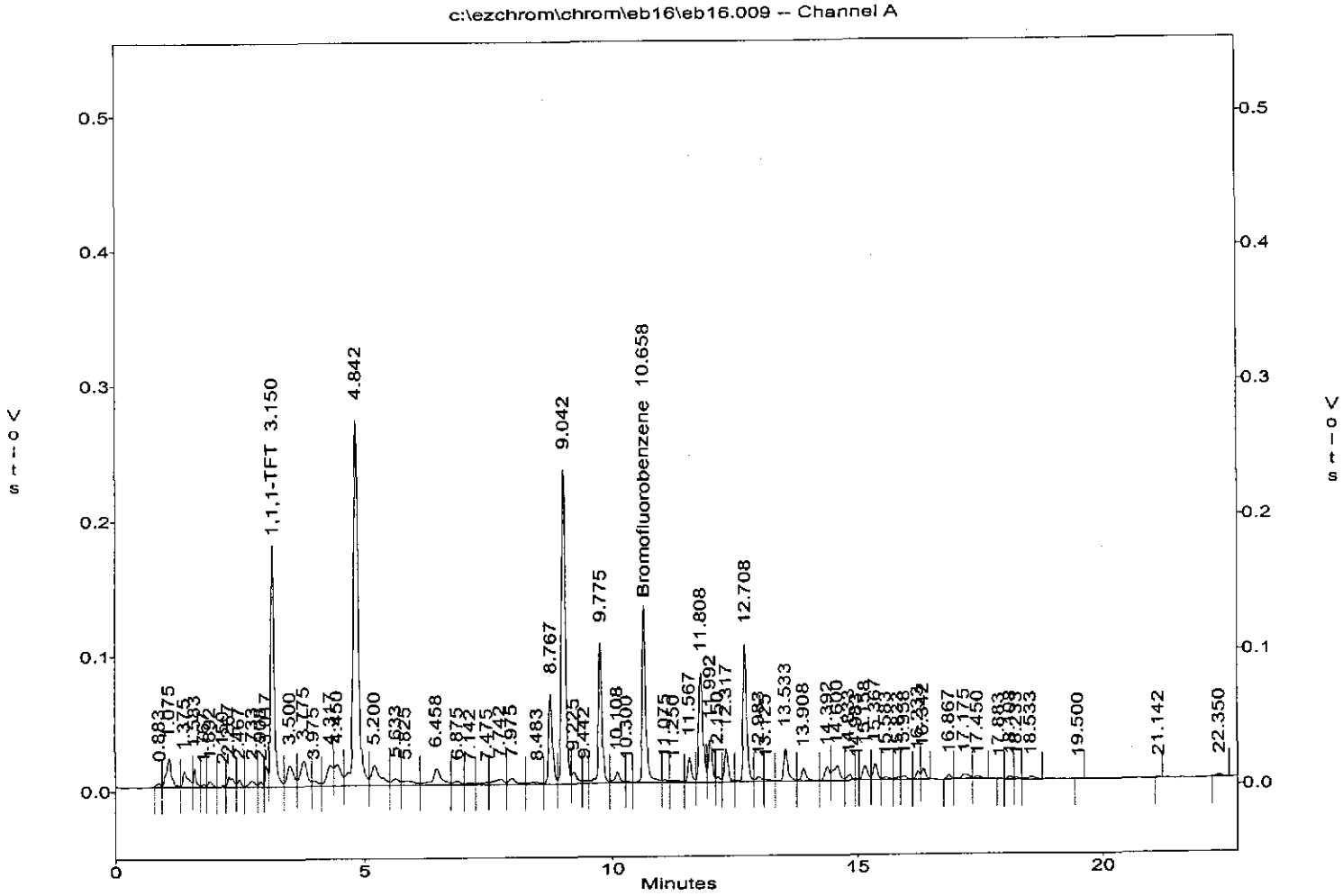


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.009
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-04 500/40
Acquired : Feb 16, 2011 18:27:48
Printed : Feb 17, 2011 17:16:03
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.150	904960.0	22131.0	40.00
37	Bromofluorobenzene	10.658	663288.0	15439.1	40.00
G1	GASOLINE(TOTAL)		8165898.0	15801.0	500.00
G2	GRO(C6-C10)		7196267.0	13749.3	500.00
G3	GRO(2MP-124TMB)		7214614.0	13874.1	500.00
G4	GRO(C5-C12)		8163408.0	15746.0	500.00
G5	GRO(C6-C12)		8030134.0	15344.1	500.00

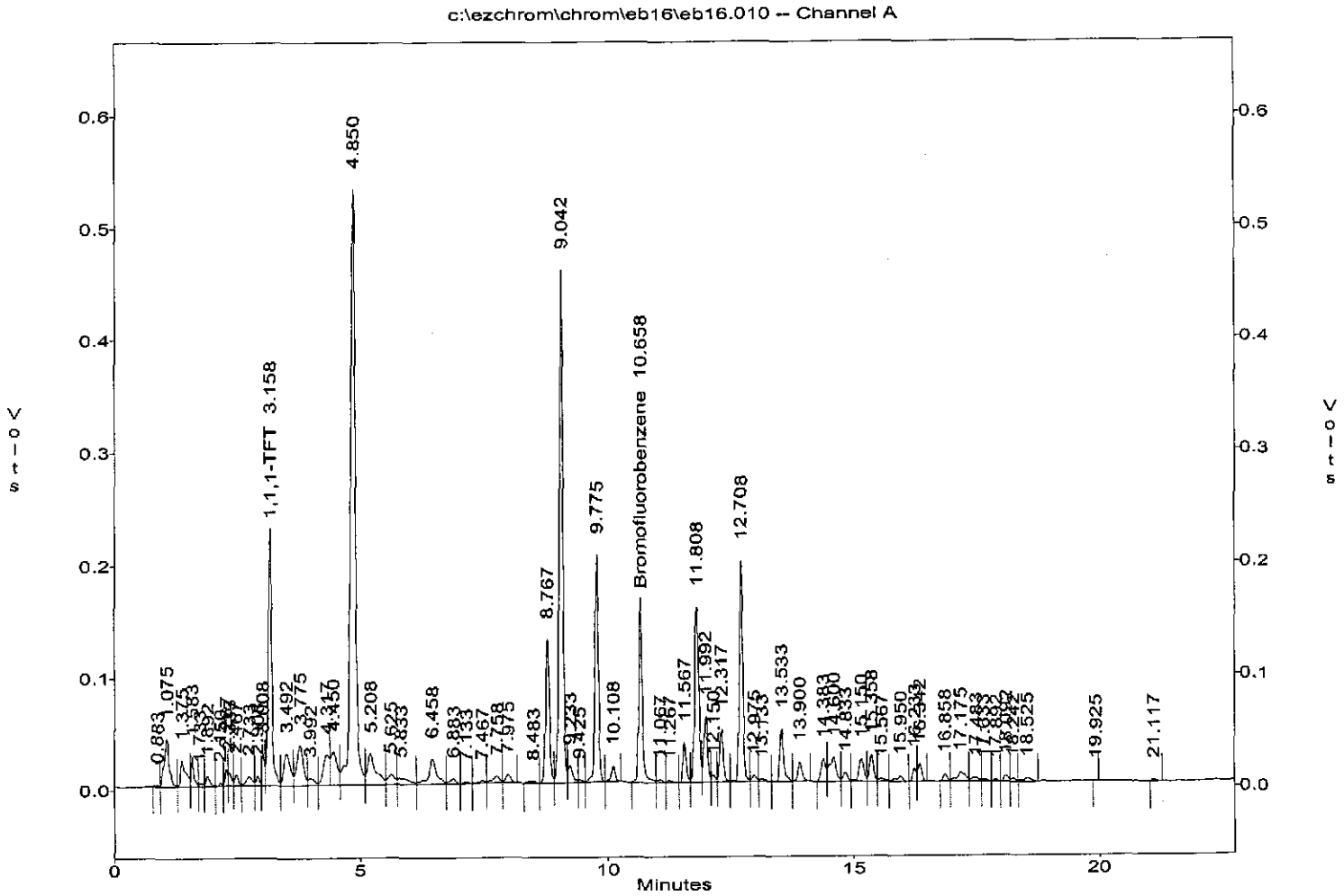


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.010
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-05 1000/50
Acquired : Feb 16, 2011 19:09:25
Printed : Feb 17, 2011 17:16:21
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.158	1169116.0	22131.0	50.00
37	Bromofluorobenzene	10.658	837542.0	15439.1	50.00
G1	GASOLINE(TOTAL)		15100379.0	15801.0	1000.00
G2	GRO(C6-C10)		13280886.0	13749.3	1000.00
G3	GRO(2MP-124TMB)		13338434.0	13874.1	1000.00
G4	GRO(C5-C12)		15100379.0	15746.0	1000.00
G5	GRO(C6-C12)		14833938.0	15344.1	1000.00



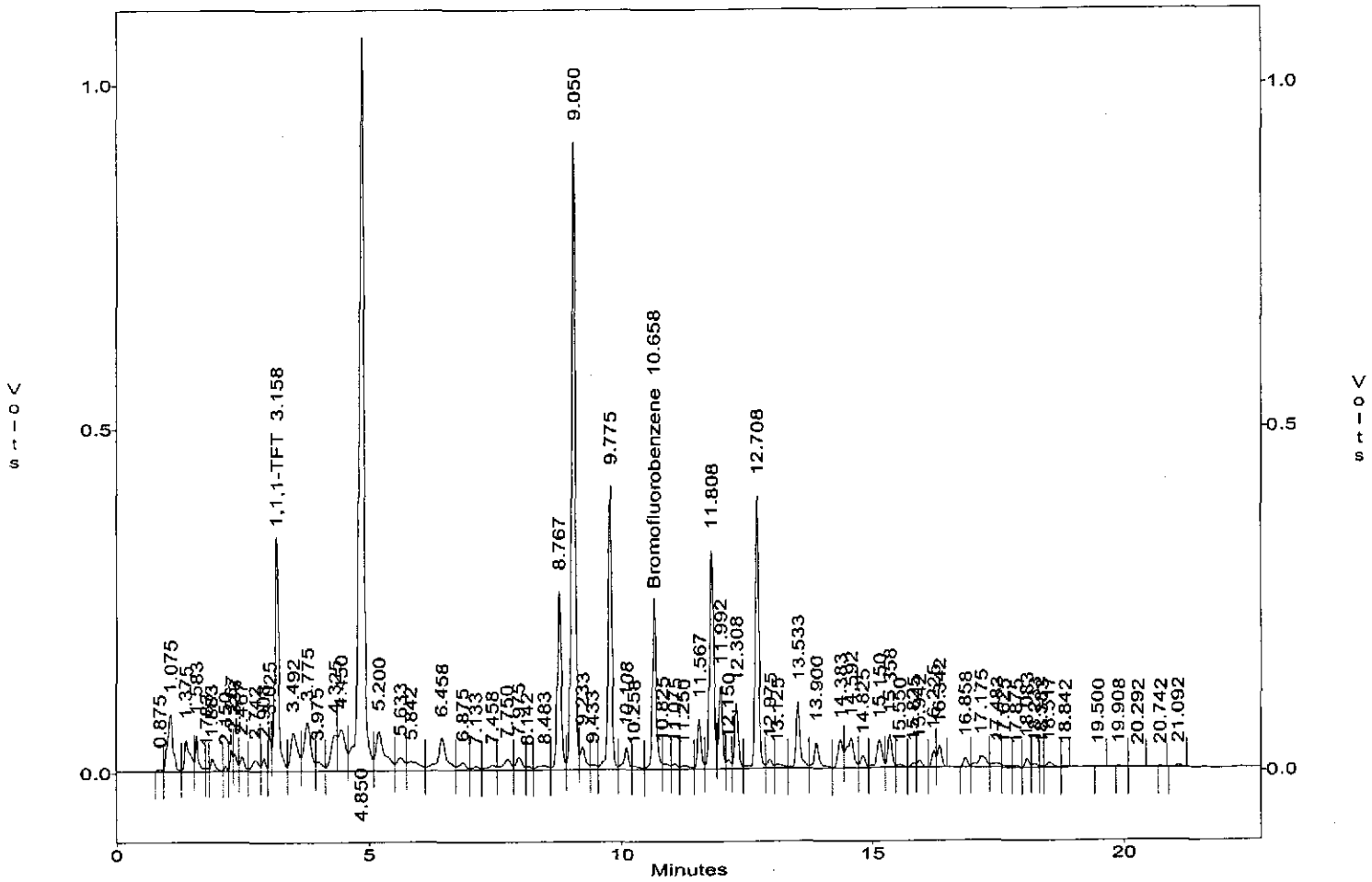
METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.011
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-06 2000/75
Acquired : Feb 16, 2011 19:50:54
Printed : Feb 17, 2011 17:16:39
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.158	1804401.0	22131.0	75.00
39	Bromofluorobenzene	10.658	1275627.0	15439.1	75.00
G1	GASOLINE(TOTAL)		31569000.0	15801.0	2000.00
G2	GRO(C6-C10)		27694940.0	13749.3	2000.00
G3	GRO(2MP-124TMB)		27813320.0	13874.1	2000.00
G4	GRO(C5-C12)		31550052.0	15746.0	2000.00
G5	GRO(C6-C12)		30992652.0	15344.1	2000.00

c:\ezchrom\chrom\eb16\eb16.011 -- Channel A

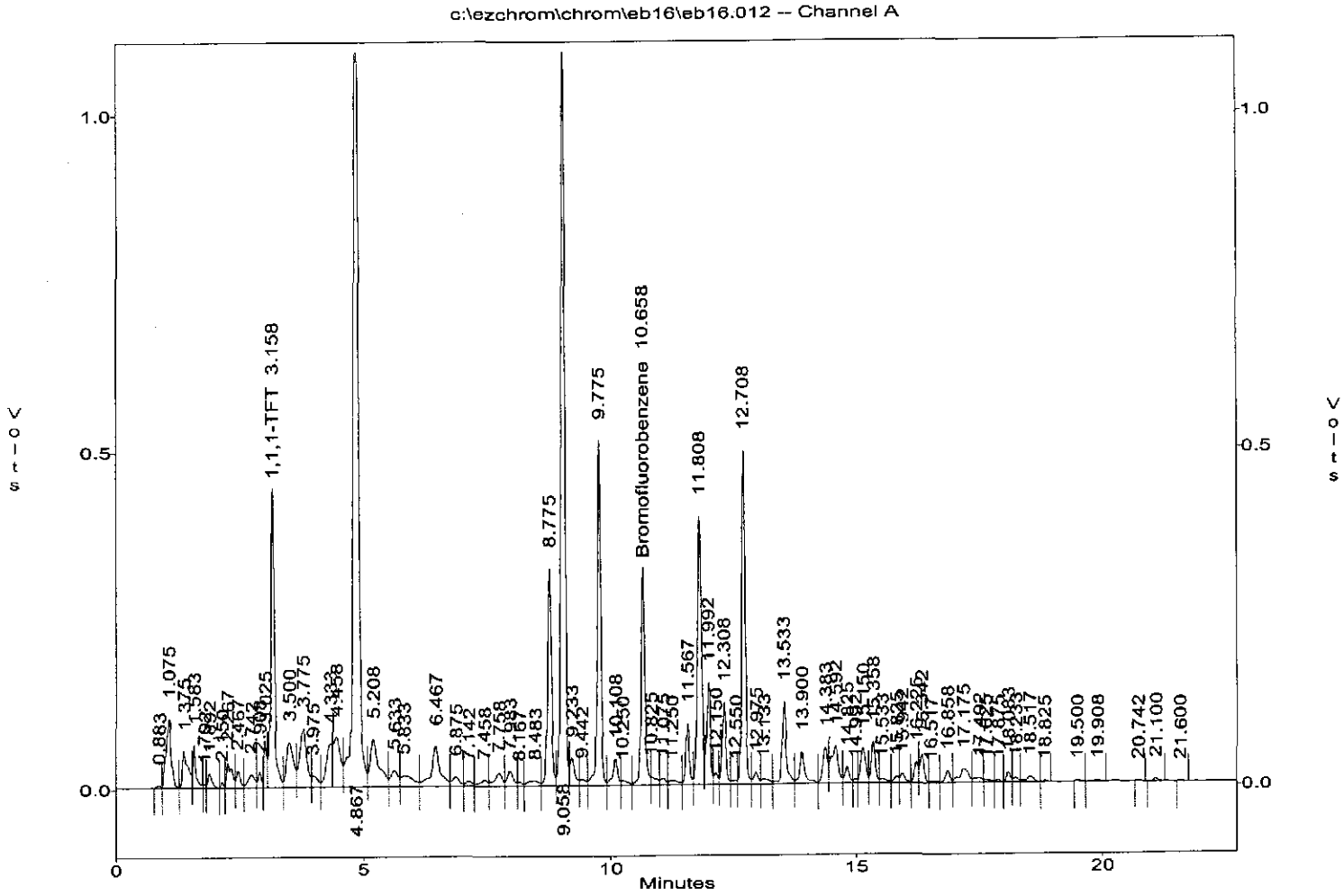


METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.012
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : VG39B16-07 2500/100
Acquired : Feb 16, 2011 20:32:29
Printed : Feb 17, 2011 17:17:13
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.158	2336388.0	22131.0	100.00
38	Bromofluorobenzene	10.658	1684416.0	15439.1	100.00
G1	GASOLINE(TOTAL)		39461860.0	15801.0	2500.00
G2	GRO(C6-C10)		34275848.0	13749.3	2500.00
G3	GRO(2MP-124TMB)		34411568.0	13874.1	2500.00
G4	GRO(C5-C12)		39439180.0	15746.0	2500.00
G5	GRO(C6-C12)		38755684.0	15344.1	2500.00



SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
503DB/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16013A 02/16/2011 21:13
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	16234217	1027.42	3		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	13044726	948.75	-5		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	13079789	942.74	-6		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	16151394	1025.75	3		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	15821427	1031.11	3		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.658	10.605	10.711	50.0	15439.1	827724	53.61	7		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	50.0	22131.0	1210252	54.69	9		15

VG39B16.MET

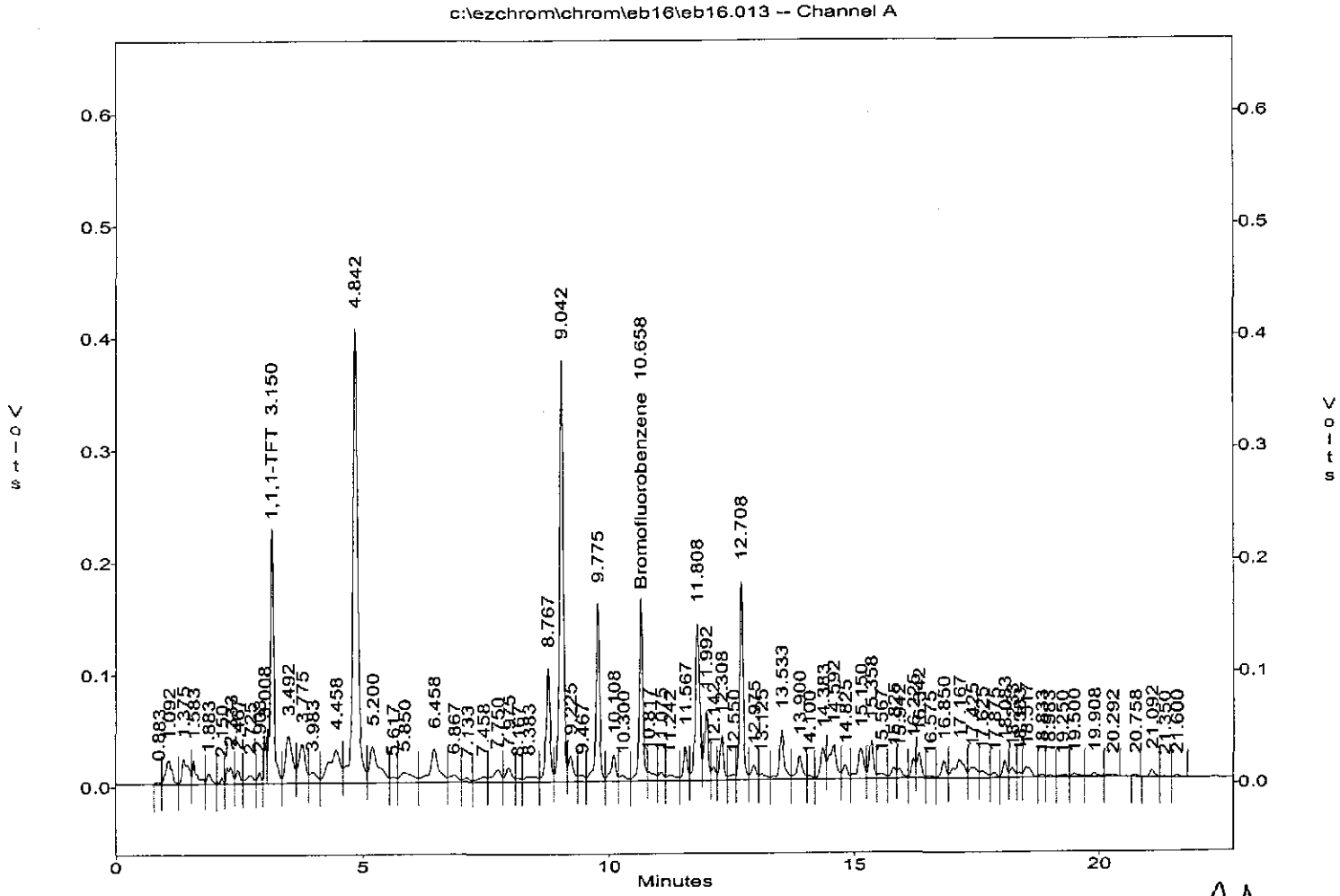
QA
02/18/11

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.013
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : IVG39B1601 1000/50
Acquired : Feb 16, 2011 21:13:59
Printed : Feb 17, 2011 17:07:32
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
12	1,1,1-TFT	3.150	1210252.0	22131.0	54.69
36	Bromofluorobenzene	10.658	827724.0	15439.1	53.61
G1	GASOLINE(TOTAL)		16234217.0	15801.0	1027.42
G2	GRO(C6-C10)		13044726.0	13749.3	948.75
G3	GRO(2MP-124TMB)		13079789.0	13874.1	942.75
G4	GRO(C5-C12)		16151394.0	15746.0	1025.75
G5	GRO(C6-C12)		15821427.0	15344.1	1031.11



AA 02/18/11
4025

INITIAL CALIBRATION VERIFICATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16009A 02/16/2011 18:27
Conc Cont LFID & Datetime: EB16014A 02/16/2011 21:55
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	500.0	15801.0	8353585	528.67	6		15
GRO(C6-C10)	NA	NA	NA	500.0	13749.3	6789626	493.82	-1		15
GRO(2MP-124TMB)	NA	NA	NA	500.0	13874.1	6792926	489.61	-2		15
GRO(C5-C12)	NA	NA	NA	500.0	15746.0	8342423	529.81	6		15
GRO(C6-C12)	NA	NA	NA	500.0	15344.1	8184034	533.37	7		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.658	10.605	10.711	40.0	15439.1	670143	43.41	9		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	40.0	22131.0	918275	41.49	4		15

VG39B16.MET

AA
02/18/11

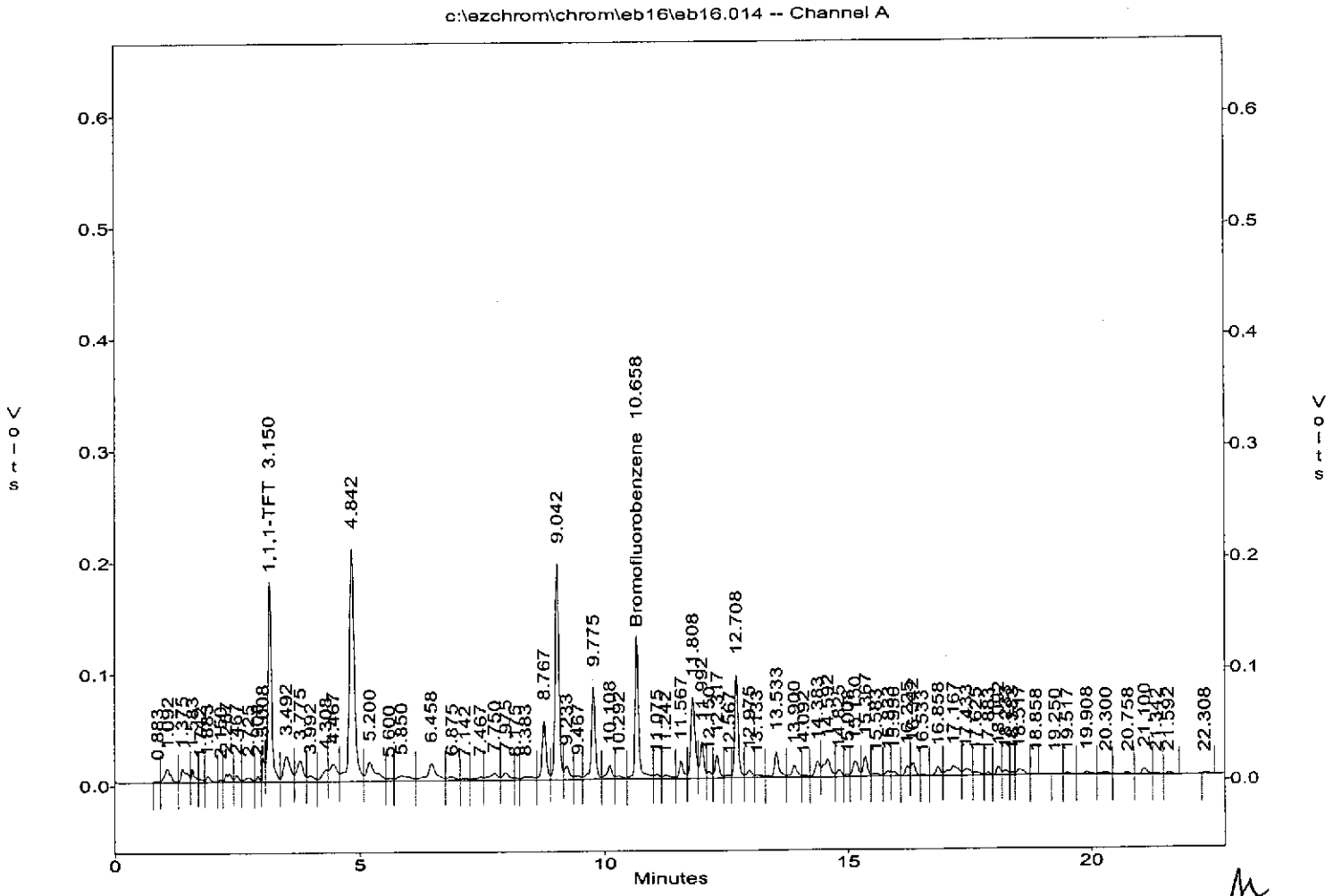
4027

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.014
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : IVG39B1602 500/40
Acquired : Feb 16, 2011 21:55:30
Printed : Feb 17, 2011 17:07:42
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.150	918275.0	22131.0	41.49
38	Bromofluorobenzene	10.658	670143.0	15439.1	43.41
G1	GASOLINE(TOTAL)		8353585.0	15801.0	528.67
G2	GRO(C6-C10)		6789626.0	13749.3	493.82
G3	GRO(2MP-124TMB)		6792926.0	13874.1	489.61
G4	GRO(C5-C12)		8342423.0	15746.0	529.81
G5	GRO(C6-C12)		8184034.0	15344.1	533.37



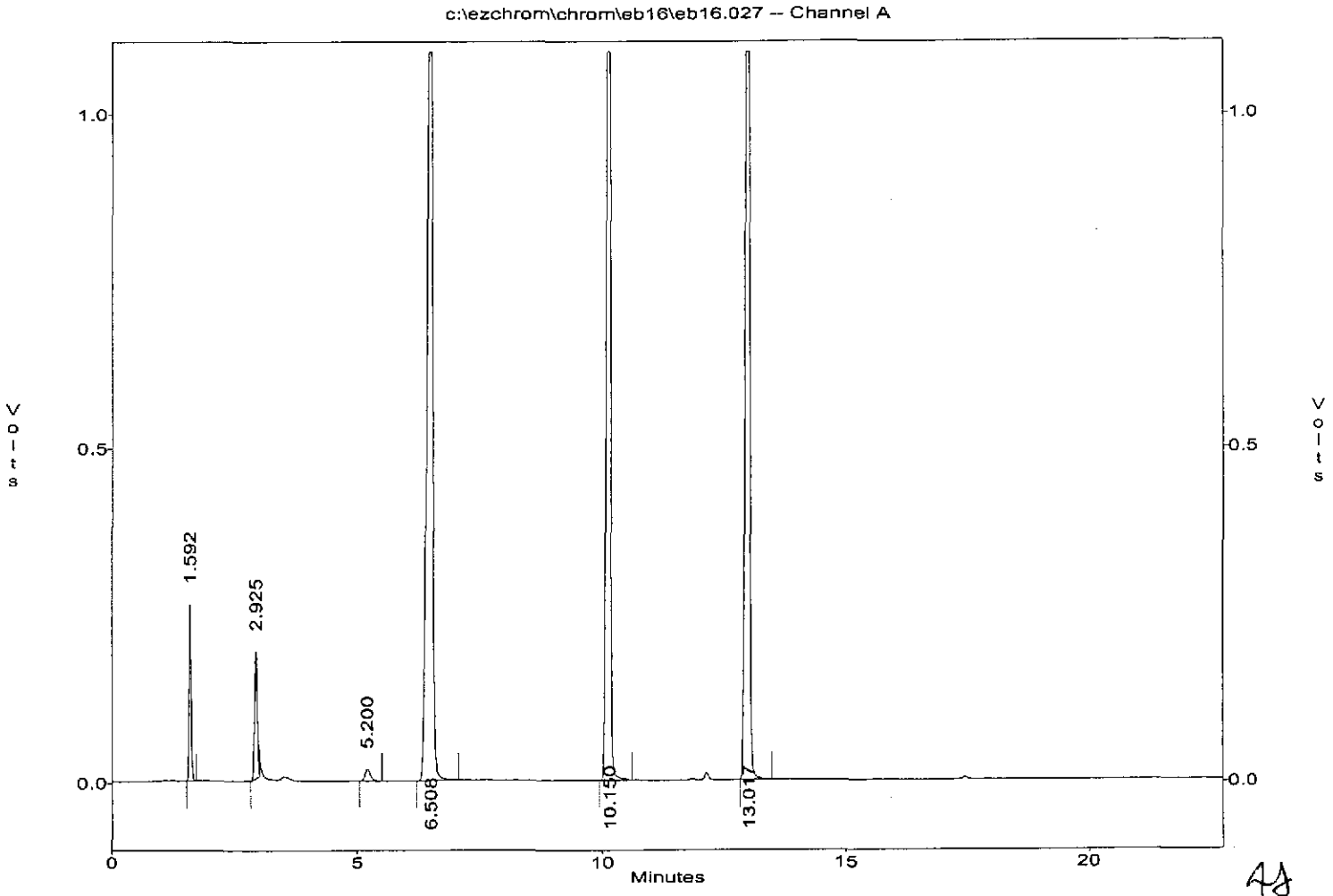
02/18/11
4028

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.027
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : GRO
Acquired : Feb 17, 2011 06:57:38
Printed : Feb 17, 2011 17:09:06
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.150	0.0	0.0	0.00
--	Bromofluorobenzene	10.658	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		26609760.0	15801.0	1684.05
G2	GRO(C6-C10)		25899076.0	13749.3	1883.66
G3	GRO(2MP-124TMB)		18738168.0	13874.1	1350.58
G4	GRO(C5-C12)		26609760.0	15746.0	1689.94
G5	GRO(C6-C12)		25899076.0	15344.1	1687.88



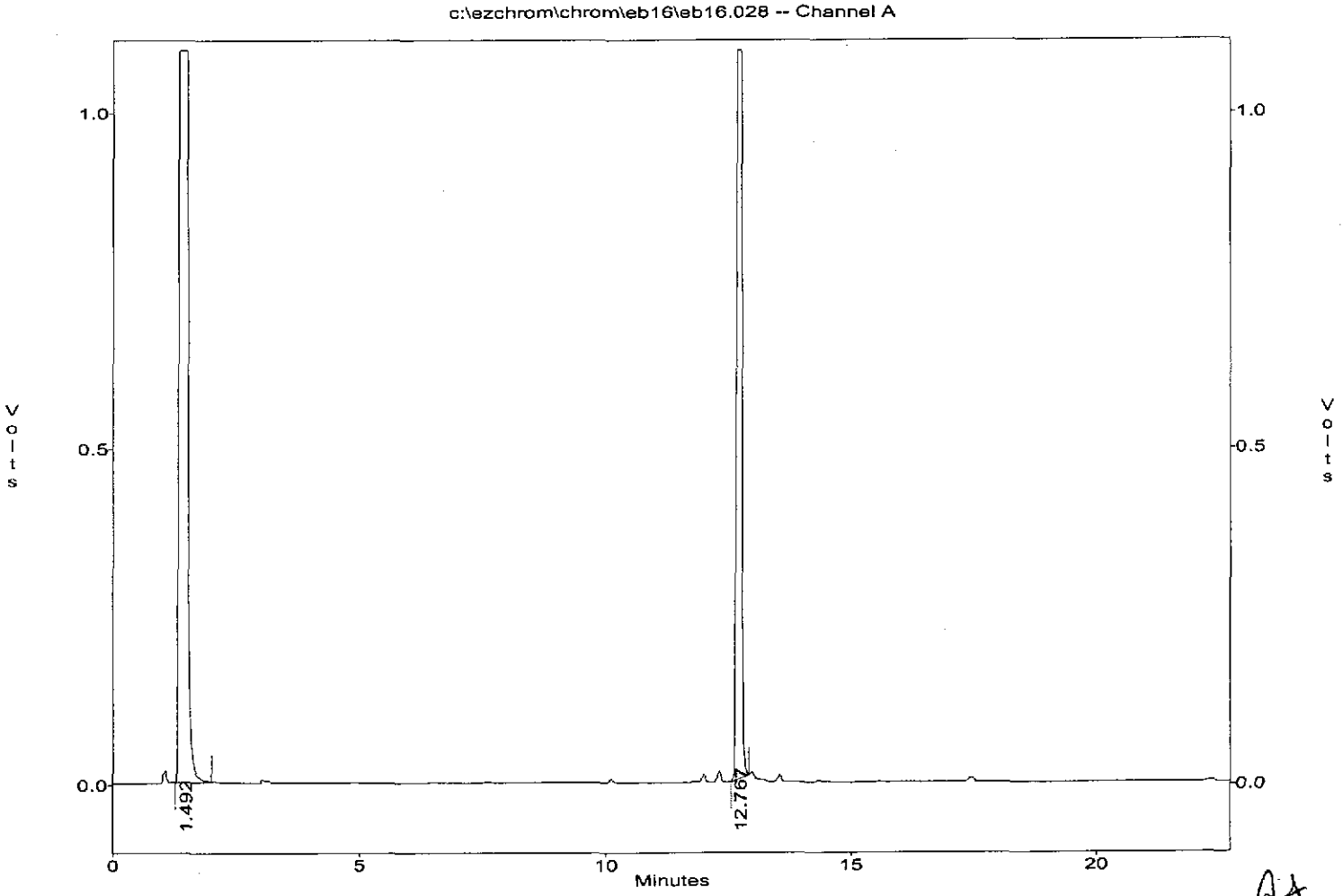
AS
02/18/11
4029

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.028
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : 2MP/1,2,4-TMB
Acquired : Feb 17, 2011 07:39:00
Printed : Feb 17, 2011 17:09:17
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.150	0.0	0.0	0.00
--	Bromofluorobenzene	10.658	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		22053704.0	15801.0	1395.72
G2	GRO(C6-C10)		8584502.0	13749.3	624.36
G3	GRO(2MP-124TMB)		8584502.0	13874.1	618.74
G4	GRO(C5-C12)		22053704.0	15746.0	1400.59
G5	GRO(C6-C12)		8584502.0	15344.1	559.47



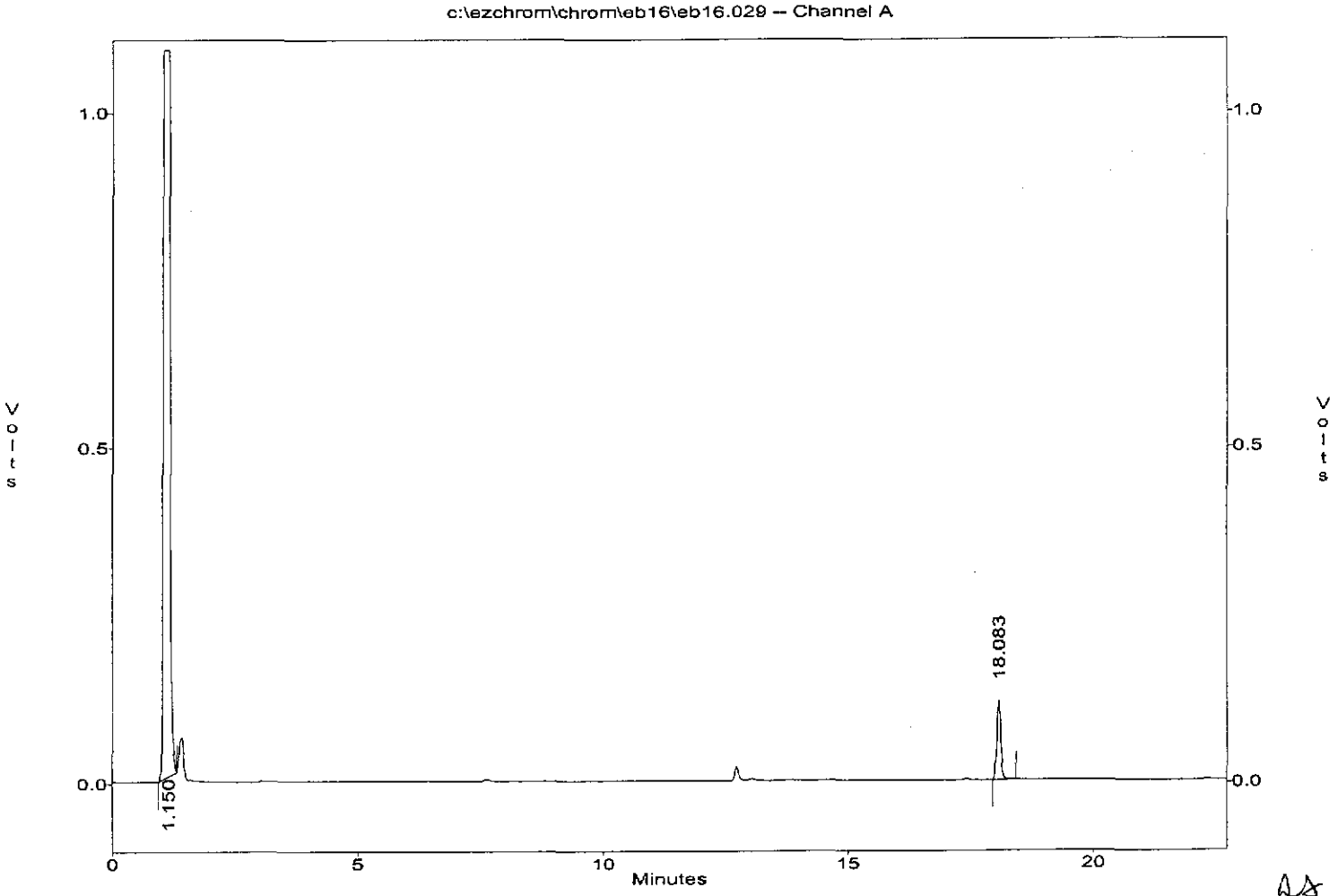
AS 02/18/11
4030

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.029
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : PENTANE/NAPHTHALENE
Acquired : Feb 17, 2011 08:20:23
Printed : Feb 17, 2011 17:09:29
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.150	0.0	0.0	0.00
--	Bromofluorobenzene	10.658	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		10819692.0	15801.0	684.75
G2	GRO(C6-C10)		0.0	13749.3	0.00
G3	GRO(2MP-124TMB)		0.0	13874.1	0.00
G4	GRO(C5-C12)		10819692.0	15746.0	687.14
G5	GRO(C6-C12)		667712.0	15344.1	43.52



AS 07/18/11

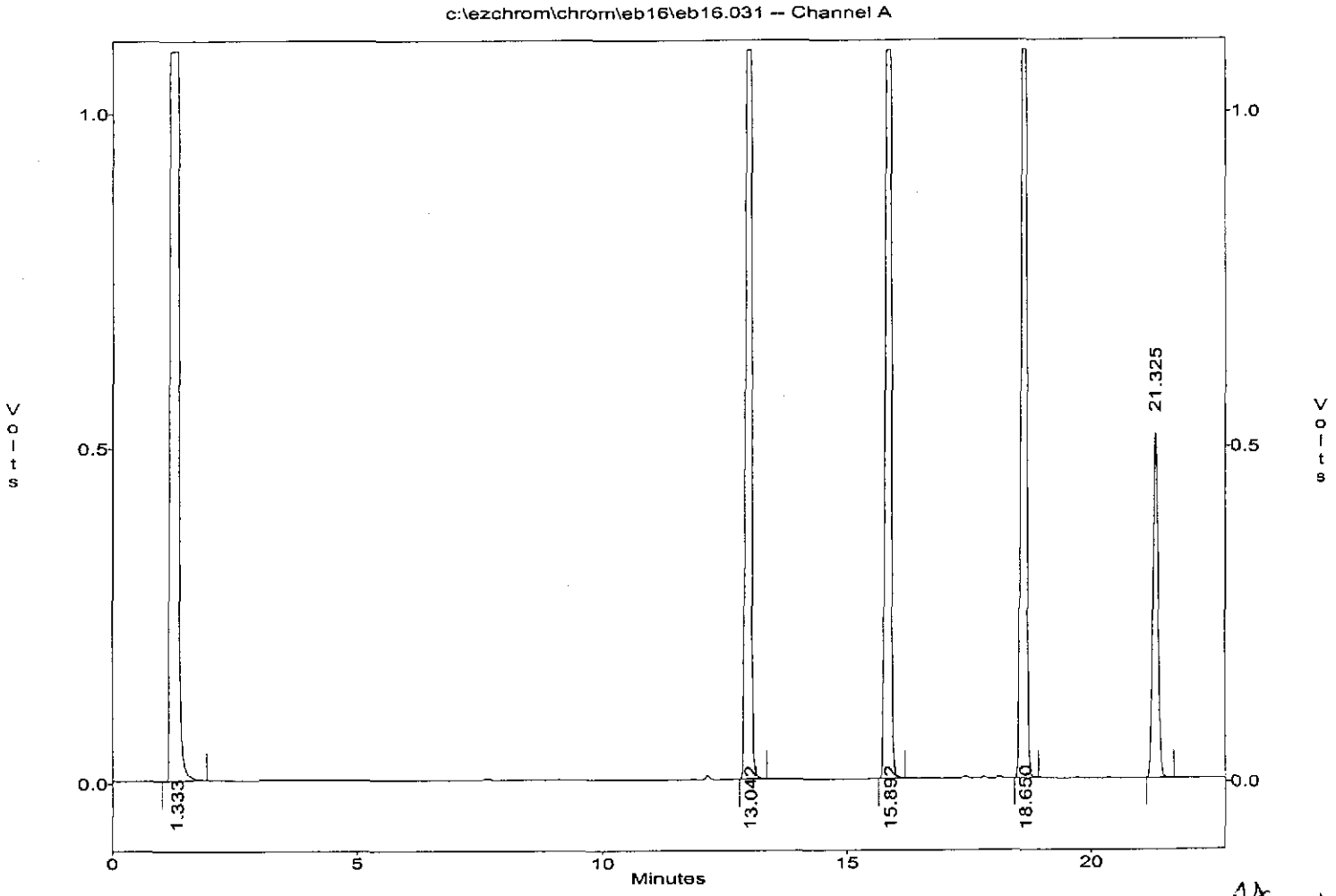
4031

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\eb16\eb16.031
Method : c:\ezchrom\methods\vg39b16.met
Sample ID : DRO
Acquired : Feb 17, 2011 09:43:16
Printed : Feb 17, 2011 17:09:45
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
--	1,1,1-TFT	3.150	0.0	0.0	0.00
--	Bromofluorobenzene	10.658	0.0	0.0	0.00
G1	GASOLINE(TOTAL)		41721856.0	15801.0	2640.46
G2	GRO(C6-C10)		0.0	13749.3	0.00
G3	GRO(2MP-124TMB)		0.0	13874.1	0.00
G4	GRO(C5-C12)		41721856.0	15746.0	2649.68
G5	GRO(C6-C12)		28481500.0	15344.1	1856.18



AS 02/18/11

4032

DAILY CALIBRATION

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16070A 02/18/2011 12:46
CONC UNIT : ppb

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	14722652	931.75	-7		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	12982462	944.22	-6		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	12935995	932.38	-7		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	14722652	935.01	-6		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	14464670	942.68	-6		15

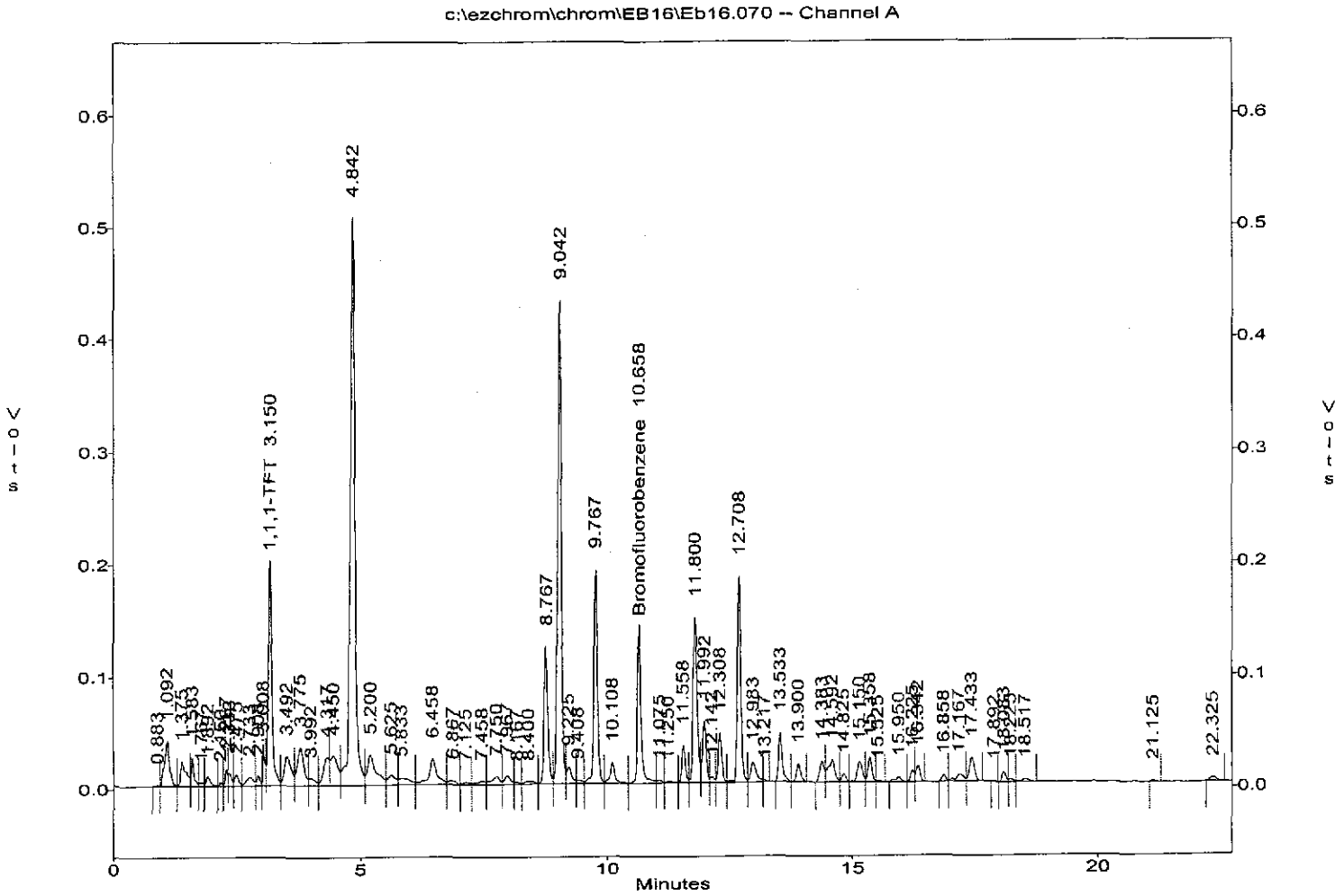
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
Bromofluorobenzene	10.658	10.605	10.711	50.0	15439.1	736045	47.67	-5		15
1,1,1-Trifluorotoluene	3.150	3.049	3.251	50.0	22131.0	1042100	47.09	-6		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\EB16\Eb16.070
Method : c:\ezchrom\methods\Vg39b16.met
Sample ID : CVG39B16169 1000/50
Acquired : Feb 18, 2011 12:46:28
Printed : Feb 18, 2011 13:09:05
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
14	1,1,1-TFT	3.150	1042100.0	22131.0	47.09
38	Bromofluorobenzene	10.658	736045.0	15439.1	47.67
G1	GASOLINE(TOTAL)		14722652.0	15801.0	931.75
G2	GRO(C6-C10)		12982462.0	13749.3	944.23
G3	GRO(2MP-124TMB)		12935995.0	13874.1	932.38
G4	GRO(C5-C12)		14722652.0	15746.0	935.01
G5	GRO(C6-C12)		14464670.0	15344.1	942.68



4035

CONTINUE CALIBRATION
5030B/M8015

Lab Name : EMAX Inc
Instrument ID : GCT39
GC Column : DB-5
Column size ID : 30MX.53MM
Mid Conc Init LFID & Datetime: EB16010A 02/16/2011 19:09
Conc Cont LFID & Datetime: EB16084A 02/18/2011 22:27
CONC UNIT : ppb

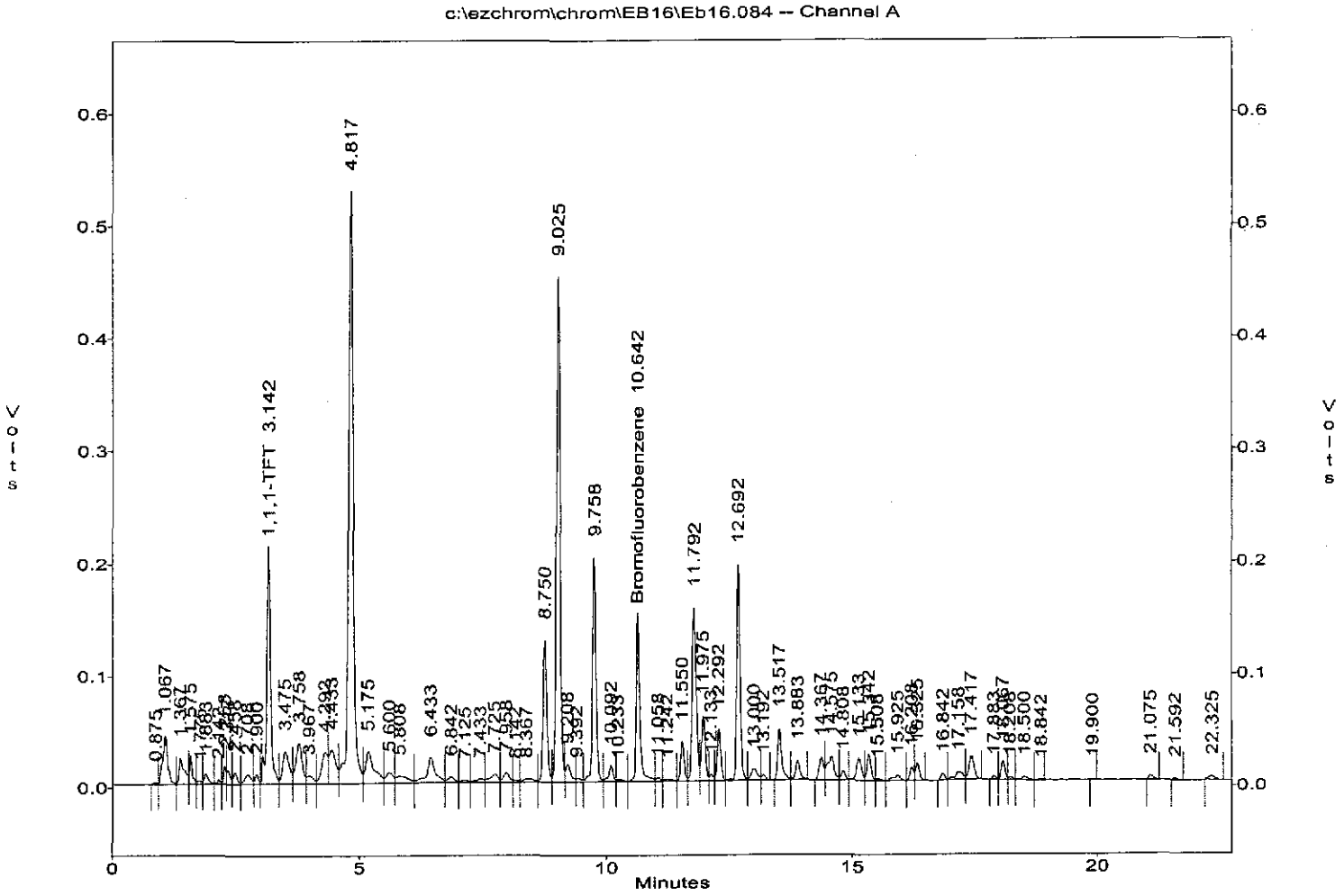
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
Gasoline(TOTAL)	NA	NA	NA	1000.0	15801.0	15282897	967.21	-3		15
GRO(C6-C10)	NA	NA	NA	1000.0	13749.3	13370143	972.42	-3		15
GRO(2MP-124TMB)	NA	NA	NA	1000.0	13874.1	13372320	963.83	-4		15
GRO(C5-C12)	NA	NA	NA	1000.0	15746.0	15278841	970.33	-3		15
GRO(C6-C12)	NA	NA	NA	1000.0	15344.1	15018807	978.80	-2		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
Bromofluorobenzene	10.642	10.589	10.695	50.0	15439.1	779258	50.47	1		15
1,1,1-Trifluorotoluene	3.142	3.041	3.243	50.0	22131.0	1158624	52.35	5		15

METHOD 8015 by FID
EMAX Analytical Laboratories, Inc.

File : c:\ezchrom\chrom\EB16\Eb16.084
Method : c:\ezchrom\methods\Vg39b16.met
Sample ID : CVG39B16171 1000/50
Acquired : Feb 18, 2011 22:27:21
Printed : Feb 18, 2011 22:50:06
User : SERGIO

Channel A Results

#	Peak Name	Ret.Time(Min)	Area	Ave. CF	ESTD Conc.(PPB)
13	1,1,1-TFT	3.142	1158624.0	22131.0	52.35
38	Bromofluorobenzene	10.642	779258.0	15439.1	50.47
G1	GASOLINE(TOTAL)		15282897.0	15801.0	967.21
G2	GRO(C6-C10)		13370143.0	13749.3	972.42
G3	GRO(2MP-124TMB)		13372320.0	13874.1	963.83
G4	GRO(C5-C12)		15278841.0	15746.0	970.33
G5	GRO(C6-C12)		15018807.0	15344.1	978.80



ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
NONHALOGENATED VOLATILES

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

GASOLINE ICAL

BTEXM ICAL

VA39B13 (water): A237, B127, B189, B192, B152 (p.t. samples)

GSB003 (soil): A237, A236 (p.t. samples)

GMB009 (soil): A237, A236, B186 (p.t. samples)

Book #:	A39-035
Instrument No.:	39
Analytical Sequence:	EB16
Method File:	☐ FID Channel A
	☐ PID Channel B
Analytical Batch:	CVG39B16163

SOP #	Rev. #
☐ EMAX-5030B	2
☐ EMAX-BTEXM	1
☐ EMAX-8015G	2
☐ EMAX-AK101	1
☐ EMAX-	

STANDARDS ID		CONC. (mg/L)
ICAL GAS	VG39B16.MET	—
ICAL BTEX	VA39B16.MET	
ICV GAS	IVG39B1601	—
ICV BTEX	IVA39B1601	
DCC GAS	SV2-05-42	2500
DCC BTEX	SV2-05.82-2	50
BFB/TFT	SV2-05-82-1	50
LCS/LCSD ICV BTEXM	SV2-05-82-3	100
MS/MSD GAS ICV	SV2-05-46	5000
Purge Volume		5 ml

SOLVENT	ID
Methanol	

ELECTRONIC DATA ARCHIVAL	
Location	Date
☐ EZC-3-BTEX	
☐	

Analyzed By: SC

Date: 2/16/11

Method: Vg39b16.met Batch: Eb16.seq Data: Eb16.008 - [Batch: eb16.seq]

File Edit Method Batch Options Analysis Control Window Help

Method Data Batch Setup Batch Preview Single STOP Recalib Analyze Report

Run	Sample ID	Method	Filename	Description
1	BLANK	vg39b16.met	EB16.001	
2	BLANK	vg39b16.met	EB16.002	
3	TEST	vg39b16.met	EB16.003	
4	BLANK	vg39b16.met	EB16.004	
5	IB39B162	vg39b16.met	EB16.005	
6	VG39B16-01 20/10 0.04ul GRG DCC / 1ul SUW	vg39b16.met	EB16.006	
7	VG39B16-02 50/20 0.1ul / 2ul	vg39b16.met	EB16.007	
8	VG39B16-03 100/30 0.2ul / 3ul	vg39b16.met	EB16.008	GASOLINE ICAL
9	VG39B16-04 500/40 1ul / 4ul	vg39b16.met	EB16.009	
10	VG39B16-05 1000/50 2ul / 5ul	vg39b16.met	EB16.010	
11	VG39B16-06 2000/75 4ul / 7.5ul	vg39b16.met	EB16.011	
12	VG39B16-07 2500/100 5ul / 10ul	vg39b16.met	EB16.012	
13	IVG39B1601 1000/50 1ul GRG LCG / 5ul SUW	vg39b16.met	EB16.013	GASOLINE ICV
14	IVG39B1602 500/40 0.5ul / 4ul SUW	vg39b16.met	EB16.014	
15	RINSE	vg39b16.met	EB16.015	
16	IB39B163	vg39b16.met	EB16.016	FINAL
17	VA39B16-07 100PPB 10ul BTEXM DCC	vg39b16.met	EB16.017	
18	VA39B16-06 75PPB 7.5ul	vg39b16.met	EB16.018	
19	VA39B16-05 40PPB 4ul	vg39b16.met	EB16.019	
20	VA39B16-04 20PPB 2ul	vg39b16.met	EB16.020	BTEXM ICAL
21	VA39B16-03 5PPB 0.5ul	vg39b16.met	EB16.021	
22	VA39B16-02 1PPB 0.1ul	vg39b16.met	EB16.022	
23	VA39B16-01 0.5PPB 0.05ul	vg39b16.met	EB16.023	
24	VA39B16-01 0.5PPB Not evaluated	vg39b16.met	EB16.024	
25	IVA39B1601 40/40PPB 2ul BTEXM LCG/ICV	vg39b16.met	EB16.025	BTEXM ICV
26	IVA39B1602 20/20PPB 1ul	vg39b16.met	EB16.026	
27	GRO	vg39b16.met	EB16.027	
28	2MP/1,2,4-TMB	vg39b16.met	EB16.028	
29	PENTANE/NAPHTHALENE	vg39b16.met	EB16.029	
30	RINSE	vg39b16.met	EB16.030	
31	DRO	vg39b16.met	EB16.031	
32	RINSE	vg39b16.met	EB16.032	
33	RINSE	vg39b16.met	EB16.033	
34	CVG39B16163 1000/50	vg39b16.met	EB16.034	

Instrument 1 [T-039] - Running VG39B16 03 100/30 [Run 8]...

Start | EZChrom Chromat... | Method: Vg39... | untitled - Paint | Method Vg39b16... | Exploring - Eb14 | Method Vg35b11... | Calculator | Wednesday, February 16, 201

Method: Vg39b16.met Batch: Eb16.seq Data: Eb16.075 - [Batch: eb16.seq]

File Edit Method Batch Options Analysis Control Window Help

Run	Sample ID	Method	Filename	Description
69	GRO	vg39b16.met	EB16.069	
70	CVG39B16169 1000/50 2ml GAS DCC /Sul Sum	vg39b16.met	EB16.070	
71	CVA39B16170 40/40 4ml BTEXM DCC	vg39b16.met	EB16.071	
72	IB39B171	vg39b16.met	EB16.072	
73	11A236-10I 10UL S	vg39b16.met	EB16.073	PT SAMPLE
74	BMB009SL 100UL S	vg39b16.met	EB16.074	BTEXM
75	BMB009SC 100UL S	vg39b16.met	EB16.075	BTEXM
76	GMB009SL 100UL S	vg39b16.met	EB16.076	GAS
77	GMB009SC 100UL S	vg39b16.met	EB16.077	GAS
78	BMB009SB 100UL S	vg39b16.met	EB16.078	
79	11A237-09T 5UL S	vg39b16.met	EB16.079	PT SAMPLE
80	11A237-14 100UL S	vg39b16.met	EB16.080	PT SAMPLE (RECEIVED READY TO USE)
81	11A237-14T 50UL S	vg39b16.met	EB16.081	PT SAMPLE (RECEIVED READY TO USE)
82	11B186-12 100UL S	vg39b16.met	EB16.082	
83	11A236-10T 20UL S	vg39b16.met	EB16.083	PT SAMPLE (RECEIVED READY TO USE)
84	CVG39B16171 1000/50 2ml GAS DCC /Sul Sum	vg39b16.met	EB16.084	
85	CVA39B16172 40/40 4ml BTEXM DCC	vg39b16.met	EB16.085	
86	IB	vg39b16.met	EB16.086	
87	IB	vg39b16.met	EB16.087	
88	IB	vg39b16.met	EB16.088	FINAL
89	IB	vg39b16.met	EB16.089	
90	IB	vg39b16.met	EB16.090	
91	IB	vg39b16.met	EB16.091	
92	IB	vg39b16.met	EB16.092	
93	IB	vg39b16.met	EB16.093	
94	IB	vg39b16.met	EB16.094	
95	IB	vg39b16.met	EB16.095	
96	IB	vg39b16.met	EB16.096	
97	IB	vg39b16.met	EB16.097	
98	IB	vg39b16.met	EB16.098	
99	IB	vg39b16.met	EB16.099	
100	IB	vg39b16.met	EB16.100	
101	IB	vg39b16.met	EB16.101	
102	IB	vg39b16.met	EB16.102	

SC 2/18/11

Instrument 1: T-039

Start | EZChrom Chromat... | Method: Vg39... | Untitled - Paint | Method: Vg39b16... | Exploring - Export... | Method: Vg55b08... | Calculator | Friday, February 18, 2011 4:03 PM

EXTRACTION LOGS

EMAX LABORATORIES, INC.

EXTRACTION LOG
for
NONHALOGENATED VOLATILES

Note: For samples, relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

SDG's # B186, A237 p.t. sands

Book #.: E39-026

Preparation Batch: GMB009

Matrix Soil

SOP	Rev. #
☐ EMAX-5035	2
☐ EMAX-AK101	1
☐ EMAX-	

Standards	ID	Amount Added (ml)
Surrogate		
LCS/MS GAS	SV2-05-46	25ul
Methanol		
Methanol w/ Surrogate	SV2-05-81-2	5.0ml
LCS/MS BTEXM	SV2-05-38	5ul

Reagent	Lot # / ID
Silica Sand	

Prepared By: SC

Standard Added By: SC Checked By:

Extract Location: Vw04

Disposal By: Disposal Date:

FileID: GMB009S

PRESERVATION LOG FOR HALOGENATED VOLATILES

PrepBatchID	LabSampleID	Wi(g)	DateTime	Wf(g)	DateTime	Aliquot	Unit	Ve(ml)	%Moist	Vec(ml)	ExpAmt	ExpVe(ml)	AliquotFctr	Comments
11GMB009S01	GMB009SB	23.36	2/18/11 11:54	28.35	2/18/11 11:59	4.99	g	5		5	5	5	1	
11GMB009S02	GMB009SL	23.14	2/18/11 11:58	28.14	2/18/11 11:59	5	g	5		5	5	5	1	GAS
11GMB009S03	GMB009SC	23.31	2/18/11 11:58	28.32	2/18/11 11:59	5.01	g	5		5	5	5	1	GAS
11GMB009S04	B186-12	23.5	2/18/11 11:58	29.24	2/18/11 12:01	5.74	g	5		5	5	5	0.87	ENCORE
11GMB009S05	A237-09R	23.69	2/18/11 11:58	28.69	2/18/11 12:01	5	g	5		5	5	5	1	PT SAMPLE
11GMB009S06	BMB009SL	23.48	2/18/11 11:58	28.49	2/18/11 12:02	5.01	g	5		5	5	5	1	BTEXM
11GMB009S07	BMB009SC	23.02	2/18/11 11:58	28.02	2/18/11 12:02	5	g	5		5	5	5	1	BTEXM

Balance ID: 25451062. Calibration check was verified prior to use.

Ve=extract volume

AliquotFctr=ExpAmt/Aliquot

☑ Extraction Started @ 2/18/11 11:51 Weight MeOH(g): 3.96

Prepared By: SC

☑ Extraction Ended @ 2/18/11 12:16 Vol MeOH(ml): 5

Checked By:

Comments:

Date 2/18/2011

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG
for
VOLATILES

Book # SV2-05

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV2-05-43	INTERNAL STANDARD MIX	2000 ppm	50ul	50 ppm
			SC 2/11/11	

Standard ID	SV2-05-82 -1
Name	BFB/TFT Low Conc.
Final Volume	2 ml
Solvent /Lot #	MeOH # 096181
Prep. Date	2/11/11
Exp. Date	8/11/11
Prepared By	SC
Reviewed By	

Comments

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV2-05-43	INTERNAL STANDARD MIX	2000 ppm	50ul	50 ppm
SV2-05-40	CA WIP VOA STANDARD	2000 ppm	50ul	50 ppm
			SC 2/16/11	

Standard ID	SV2-05-82 -2
Name	BTEXN DCC/ICAL
Final Volume	2 ml
Solvent /Lot #	MeOH # 096181
Prep. Date	2/16/11
Exp. Date	8/16/11
Prepared By	SC
Reviewed By	

Comments Ultra Scientific

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SV2-05-43	INTERNAL STANDARD MIX	2000 ppm	100ul	100 ppm
SV2-05-38	PURGABLE AROMATICS	2000 ppm	100ul	100 ppm
			SC 2/16/11	

Standard ID	SV2-05-82 -3
Name	BTEXN ICV/LCS
Final Volume	2 ml
Solvent /Lot #	MeOH # 096181
Prep. Date	2/16/11
Exp. Date	8/16/11
Prepared By	SC
Reviewed By	

Comments Ultra Scientific

EMAX LABORATORIES, INC.

STANDARDS LOG *for* VOLATILES

Book # : SV2-05

Standard ID	Name	Source	Lot #	Location	Date Rcvd.	~~Date Rcvd.~~ RECEIVED BY	Exp. Date	Comments
SV2-05-31 SC 9/04/09	DRO DEFINING MIX	Accustandard	LOT # 209081252 CAT # DRO-AK-101-NAS-10X	SA06	9/04/09	SC	AUG 26, 2014	5X 1ml 2000 ppm
SV2-05-32	STODDARD SOLVENT	RESTEK	LOT # A069640 CAT # 54744	SA06	9/04/09	SC	08, 2012	1X 5ml Neat
SV2-05-33	GASOLINE CALIBRATION STANDARD	Accustandard	LOT # B309023 CAT # GRO-AK-101-GCS-BTEX	SA06	10/13/09	SC	SEP 4, 2013	20X 1ml 5.0 mg/ml
SV2-05-34	RETENTION TIME MARKER	RESTEK	LOT # A043500 CAT # 30483	SA06	11/09/09	SC	3/2013	5X 1ml 1000 ug/ml
SV2-05-35	NORMAL ALKANE STANDARD GRO DEFINING MIX	GRO-AK-101-NAS-10X LOT # B412025I	SC 11/10/09					
SV2-05-35	NORMAL ALKANE STANDARD GRO DEFINING MIX	ACCUSTANDARD	CAT # GRO-AK-101-NAS-10X LOT # B412025I	SA06	11/10/09	SC	DEC 29, 2014	5X 1ml 2000 ppm
SV2-05-36	NORMAL ALKANE STANDARD GRO DEFINING MIX	GRO-AK-101-NAS-10X LOT # 209091170	SC 11/10/09					
SV2-05-36	NORMAL ALKANE STANDARD GRO DEFINING MIX	ACCUSTANDARD	CAT # GRO-AK-101-NAS-10X LOT # 209091170	SA06	11/10/09	SC	SEP 16, 2019	5X 1ml 2000 ppm
SV2-05-37	JP4 (Jet fuel)	Accustandard	CAT # FU-010-40X LOT # B8040251	SA06	1/7/10	SC	APR 21, 2018	3X 1ml 20.0 mg/ml
SV2-05-38	PURGABLE AROMATICS GASOLINE ID	Accustandard	CAT # U-602-GAS-10X-PAK LOT # B4050244	SA06	3/5/10	SC	May 25, 2014	5X 1ml (2.0 mg/ml) in MeOH
SV2-05-39	UNLEADED GASOLINE COMPOSITE	RESTEK	CAT # 30081 LOT # A065445	SA06	3/8/10	SC	FEB/2016	5X 1ml (2500 ug/ml)
SV2-05-40	CA WIP VOA STANDARD	RESTEK	CAT # 30236 LOT # A048858	SA06	3/8/10	SC	JAN/2014	5X 1ml (2000 ug/ml)
SV2-05-41	MA VPH Mathe quick w/ surr	Accu STD	LOT # B000028	SA06	5/6	SC	JAN 09, 2018	5X 1ml 50 ppm
SV2-05-42	UNLEADED GASOLINE COMPOSITE	RESTEK	CAT # 30081 LOT # A069867	SA06	7/8/10	SC	OCT/2016	2500 ug/ml 10X 1ml
SV2-05-43	INTERNAL STANDARD MIXTURE	ULTRA	CAT # STM 410 LOT # CF-3630	SA06	7/12/10	SC	SEP/2012	10X 1ml 2000 ug/ml
SV2-05-44	STODDARD SOLVENT STANDARD	RESTEK	CAT # 30487 LOT # A061583	SA06	7/19/10	SC	08/2016	5X 1ml 10000 ug/ml
SV2-05-45	STODDARD SOLVENT	ACCUSTANDARD	CAT # HS-005-40X LOT # B0-100498	SA06	7/20/10	SC	4/26/2020	5X 1ml (20.0 mg/ml)
SV2-05-46	GASOLINE CALIBRATION STANDARD	Accustandard	CAT # GRO-AK-101-GCS-BTEX LOT # B309023	SA06	8/17/10	SC	SEP 4, 2013	10X 1ml 5.0 mg/ml
SV2-05-47	GASOLINE CALIBRATION STANDARD	Accustandard	CAT # GRO-AK-101-GCS-BTEX LOT # B509009	SA06	1/11/11	SC	APR 5, 2015	20X 1ml 5.0 mg/ml
SV2-05-48	UNLEADED GASOLINE COMPOSITE STD	RESTEK	CAT # 30081 LOT # A074870	SA06	2/15/11	SC	06/2017	10X 1ml 2000 ug/ml in PT MeOH
SV2-05-								
SV2-05-								
SV2-05-								
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SV2-05-								
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SV2-05-								
SV2-05-								

RAW DATA
TPH – EXTRACTION

LABORATORY REPORT FOR

TETRA TECH EMI

OPHA MOFFETT

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

SDG#: 11B186

CASE NARRATIVE

Client : TETRA TECH EMI

Project : OPHA MOFFETT

SDG : 11B186

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

One (1) soil sample was received on 02/17/11 for TPH Diesel & Motor Oil analysis, Method 3550B/8015 in accordance with DoD Quality Systems Manual for Environmental Laboratories, Version 4.1.

Holding Time
The sample was analyzed within the prescribed holding time.

Calibration
Multi-calibration points were generated to establish initial calibration (ICAL). ICAL was verified using a secondary source (ICV). Continuing calibration (CCV) verifications were carried on a frequency specified by the project. All calibration requirements were within acceptance criteria.

Method Blank
Method blank was analyzed at the frequency required by the project. For this SDG, one method blank was analyzed with the samples. Result was compliant to project requirement.

Lab Control Sample
A set of LCS/LCD was analyzed with the samples in this SDG.
Percent recoveries for DSB029SL/C were all within QC limits.

Matrix QC Sample
No matrix QC sample was designated in this SDG.

Surrogate
Surrogates were added on QC and field samples. Surrogate recoveries were within project QC limits.

Sample Analysis
The sample was analyzed according to prescribed analytical procedures. All project requirements were met otherwise anomalies were discussed within the associated QC parameter.

LAB CHRONICLE
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : TETRA TECH EMI
Project : OPHA MOFFETT

SDG NO. : 11B186
Instrument ID : GCT105

SOIL

Client Sample ID	Laboratory Sample ID	Dilution Factor	% Moist	Analysis DateTime	Extraction DateTime	Sample Data FN	Calibration Data FN	Prep. Batch	Notes
MBLK1S	DSB029SB	1	NA	02/22/1117:37	02/22/1110:56	LB22005A	LB22003A	DSB029S	Method Blank
LCS1S	DSB029SL	1	NA	02/22/1117:53	02/22/1110:56	LB22006A	LB22003A	DSB029S	Lab Control Sample (LCS)
LCD1S	DSB029SC	1	NA	02/22/1118:10	02/22/1110:56	LB22007A	LB22003A	DSB029S	LCS Duplicate
SSI-SS-001	B186-12	1	19.8	02/22/1118:27	02/22/1110:56	LB22008A	LB22003A	DSB029S	Field Sample

FN - Filename
% Moist - Percent Moisture

SAMPLE RESULTS

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

Client	: TETRA TECH EMI	Date Collected:	02/16/11
Project	: OPHA MOFFETT	Date Received:	02/17/11
Batch No.	: 11B186	Date Extracted:	02/22/11 10:56
Sample ID:	SSI-SS-001	Date Analyzed:	02/22/11 18:27
Lab Samp ID:	B186-12	Dilution Factor:	1
Lab File ID:	LB22008A	Matrix :	SOIL
Ext Btch ID:	DSB029S	% Moisture :	19.8
Calib. Ref.:	LB22003A	Instrument ID :	GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL RANGE ORGANICS	ND	12	6.2
MOTOR OIL	ND	25	6.2

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	90.9	124.7	72.9	60-140
HEXACOSANE	29.5	31.17	94.7	50-150

RL : Reporting Limit

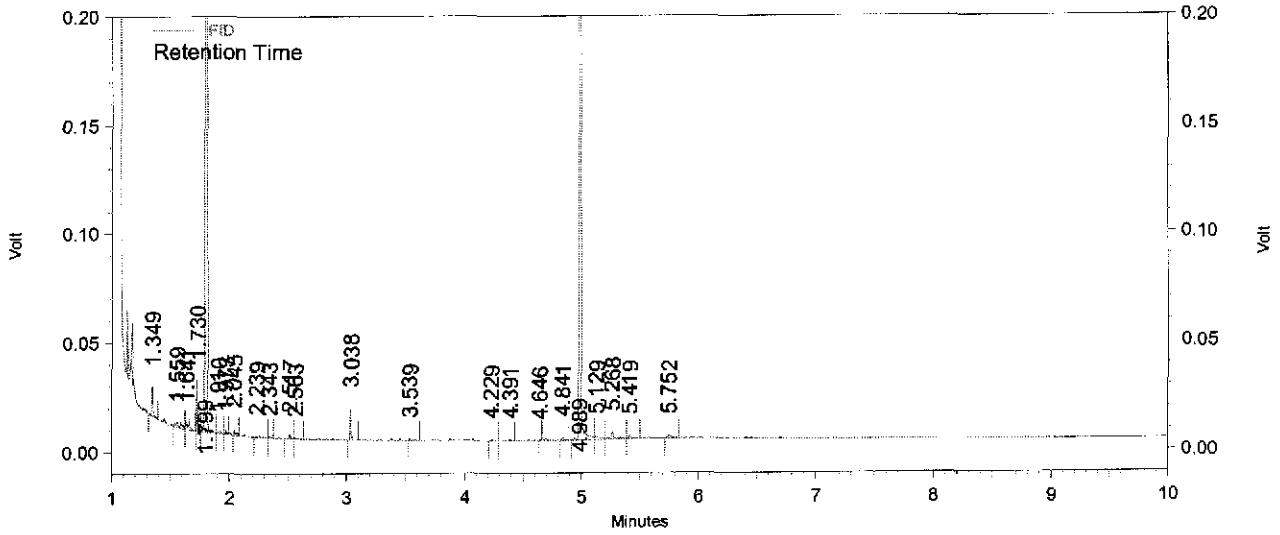
Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22008.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31M.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: 11B186-12**
Acquired	**: 02/22/11 18:27:31**
Printed	**: 02/23/11 09:57:21**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.799	1161299	15926.39809	72.917
HEXACOSANE	4.989	518818	21920.26535	23.668
DIESEL(TOTAL)		79364	24599.04010	3.226
DIESEL(C10-C24)		22116	23410.86119	0.945
M.OIL(C24-C36)		18226	15367.71978	1.186
Totals		1799823		101.942



Software Version: Version 3.3.1

QC SUMMARIES

METHOD 3550B/8015
PETROLEUM HYDROCARBONS BY EXTRACTION

Client : TETRA TECH EMI	Date Collected: NA
Project : OPHA MOFFETT	Date Received: 02/22/11
Batch No. : 11B186	Date Extracted: 02/22/11 10:56
Sample ID: MBLK1S	Date Analyzed: 02/22/11 17:37
Lab Samp ID: DSB029SB	Dilution Factor: 1
Lab File ID: LB22005A	Matrix : SOIL
Ext Btch ID: DSB029S	% Moisture : NA
Calib. Ref.: LB22003A	Instrument ID : GCT105

PARAMETERS	RESULTS (mg/kg)	RL (mg/kg)	MDL (mg/kg)
DIESEL RANGE ORGANICS	ND	10	5.0
MOTOR OIL	ND	20	5.0

SURROGATE PARAMETERS	RESULTS	SPK_AMT	% RECOVERY	QC LIMIT
BROMOBENZENE	82.0	100.0	82.0	60-140
HEXACOSANE	23.7	25.00	94.8	60-140

RL : Reporting Limit

Parameter	H-C Range
Diesel	C10-C24
Motor Oil	C24-C36

EMAX QUALITY CONTROL DATA
LCS/LCD ANALYSIS

CLIENT: TETRA TECH EMI
PROJECT: OPHA MOFFETT
BATCH NO.: 11B186
METHOD: METHOD 3550B/8015

MATRIX:	SOIL			% MOISTURE:	NA
DILUTION FACTOR:	1	1	1		
SAMPLE ID:	MBLK1S				
LAB SAMP ID:	DSB029SB	DSB029SL	DSB029SC		
LAB FILE ID:	LB22005A	LB22006A	LB22007A		
DATE EXTRACTED:	02/22/1110:56	02/22/1110:56	02/22/1110:56	DATE COLLECTED:	NA
DATE ANALYZED:	02/22/1117:37	02/22/1117:53	02/22/1118:10	DATE RECEIVED:	02/22/11
PREP. BATCH:	DSB029S	DSB029S	DSB029S		
CALIB. REF:	LB22003A	LB22003A	LB22003A		

ACCESSION:

PARAMETER	BLNK RSLT (mg/kg)	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	RPD (%)	QC LIMIT (%)	MAX RPD (%)
Diesel Range Organics	ND	500	472	94	500	468	94	1	50-150	50

SURROGATE PARAMETER	SPIKE AMT (mg/kg)	BS RSLT (mg/kg)	BS % REC	SPIKE AMT (mg/kg)	BSD RSLT (mg/kg)	BSD % REC	QC LIMIT (%)
Bromobenzene	100	92.5	92	100	87.4	87	60-140
Hexacosane	25.0	24.9	99	25.0	23.1	92	60-140

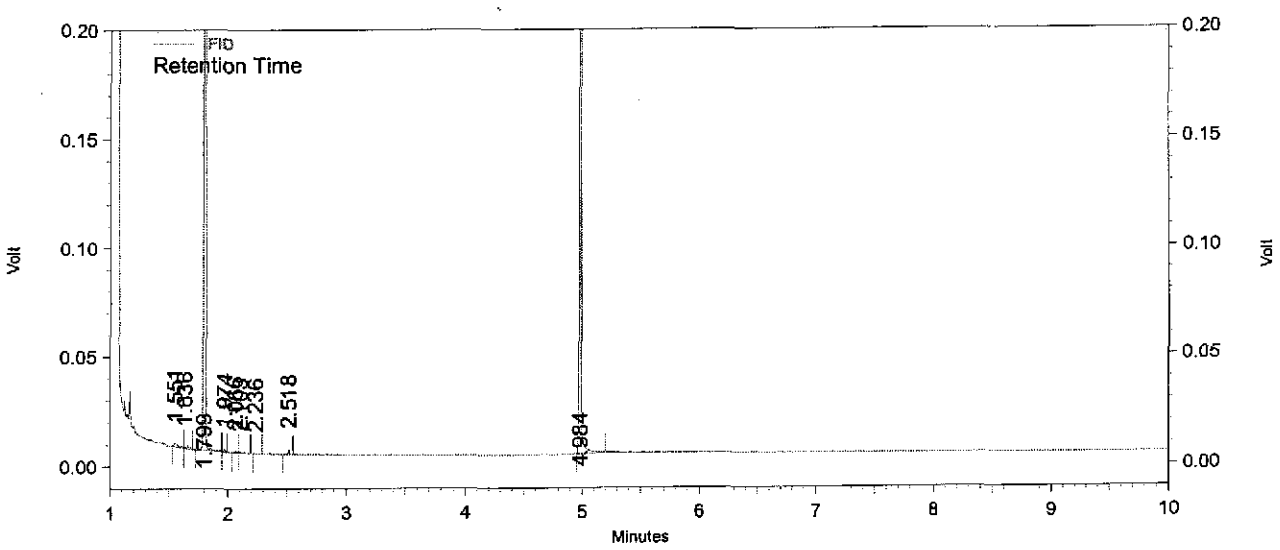
QC DATA

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22005.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31M.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: DSB029SB**
Acquired	**: 02/22/11 17:37:02**
Printed	**: 02/23/11 09:54:06**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.799	1305542	15926.39809	81.973
HEXACOSANE	4.984	519607	21920.26535	23.704
DIESEL(TOTAL)		12334	24599.04010	0.501
DIESEL(C10-C24)		5439	23410.86119	0.232
DIESEL(C10-C36)		5439	23470.35462	0.232
JP5(C8-C18)		12334	26595.96389	0.464
M.OIL(C24-C36)		0	15367.71978	0.000
Totals		1860695		107.107



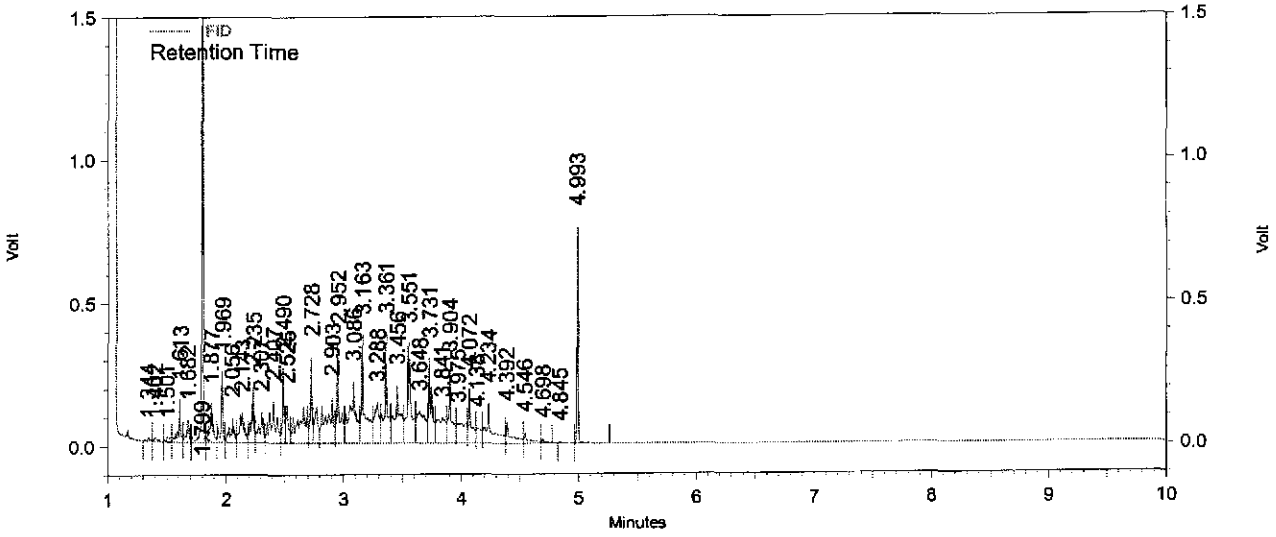
Software Version: Version 3.3.1

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22006.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31M.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: DSB029SL**
Acquired	**: 02/22/11 17:53:48**
Printed	**: 02/23/11 09:55:03**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.799	1472938	15926.39809	92.484
HEXACOSANE	4.993	545138	21920.26535	24.869
DIESEL(TOTAL)		11689876	24599.04010	475.217
DIESEL(C10-C24)		11053003	23410.86119	472.131
DIESEL(C10-C36)		11091062	23470.35462	472.556
Totals		35852017		1537.258



- ☐ Incorrect Retention Time
- ☑ Incorrect Baseline
- ☐ Incorrect Integration
- ☐ Other _____

Initials KW
Date 2/23/11

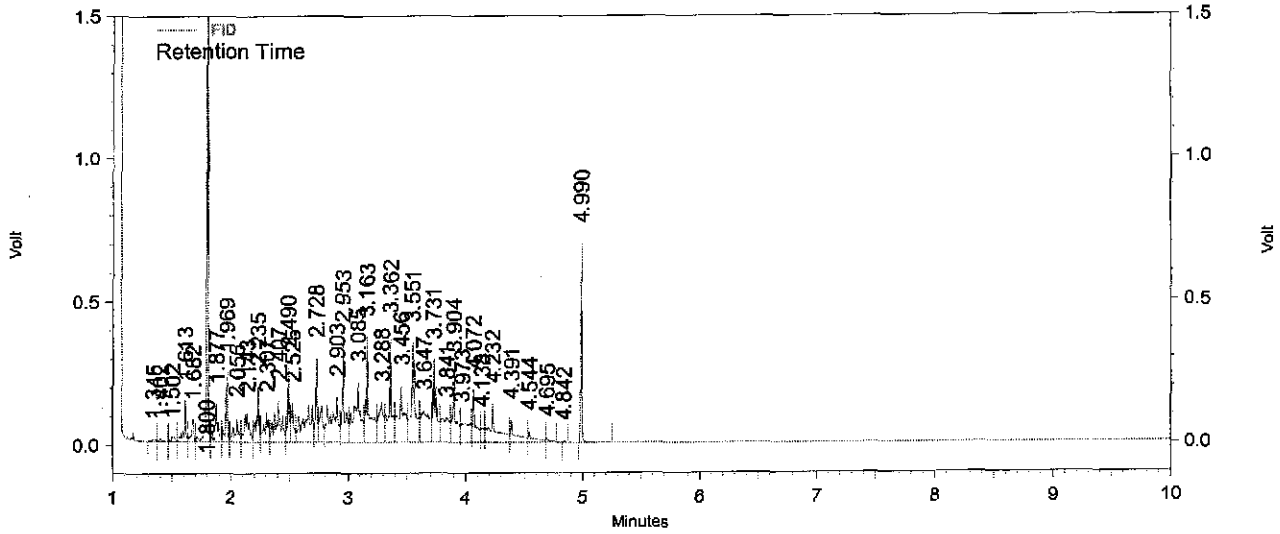
Software Version: Version 3.3.1

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22007.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31M.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: DSB029SC**
Acquired	**: 02/22/11 18:10:37**
Printed	**: 02/23/11 09:55:25**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.800	1392384	15926.39809	87.426
HEXACOSANE	4.990	506298	21920.26535	23.097
DIESEL(TOTAL)		11569076	24599.04010	470.306
DIESEL(C10-C24)		10950905	23410.86119	467.770
DIESEL(C10-C36)		10988682	23470.35462	468.194
Totals		35407345		1516.794



- ☐ Incorrect Retention Time
- ☑ Incorrect Baseline
- ☐ Incorrect Integration
- ☐ Other _____

Initials KW
Date 2/23/11

Software Version: Version 3.3.1

INITIAL CALIBRATION

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31003A 01/31/11 19:36
LFID & Datetime: LA31004A 01/31/11 19:52
LFID & Datetime: LA31005A 01/31/11 20:09
LFID & Datetime: LA31006A 01/31/11 20:26
LFID & Datetime: LA31007A 01/31/11 20:43
LFID & Datetime: LA31008A 01/31/11 20:59
LFID & Datetime: LA31009A 01/31/11 21:16
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 1.00X	2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD	
DIESEL(TOTAL)	5.00	24562	21553	23304	27728	26931	24601	23514	24599.0	8.7	✓
DIESEL(C10-C24)	5.00	23658	19867	22244	26582	25977	23359	22188	23410.9	9.9	✓
DIESEL(C10-C28)	5.00	23696	19979	22312	26603	25998	23458	22243	23469.7	9.7	✓
DIESEL(C10-C25)	5.00	23696	19905	22260	26590	25988	23426	22219	23440.4	9.8	✓
DIESEL(C9-C24)	5.00	24349	20239	22776	27153	26547	24096	23036	24028.0	9.8	✓
DIESEL(C9-C25)	5.00	24386	20276	22792	27161	26558	24163	23068	24057.6	9.7	✓
DIESEL(C10-C36)	5.00	23696	19979	22314	26603	25998	23460	22243	23470.4	9.7	✓
DIESEL(C10-C40)	5.00	23696	19979	22314	26603	25998	23460	22243	23470.4	9.7	✓
SURROGATE	X	0.00X	1.00X	2.00X	3.00X	4.00X	5.00X	11.00X	MEAN	%RSD	
BROMOBENZENE	20.00	0	14990	16097	15904	15772	16456	16339	15926.4	3.3	✓
HEXACOSANE	5.00	0	19664	22241	22512	22526	22197	22382	21920.3	5.1	✓

DS105A31.MET

AB
02/03/11

5015

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31003A 01/31/11 19:36
LFID & Datetime: LA31004A 01/31/11 19:52
LFID & Datetime: LA31005A 01/31/11 20:09
LFID & Datetime: LA31006A 01/31/11 20:26
LFID & Datetime: LA31007A 01/31/11 20:43
LFID & Datetime: LA31008A 01/31/11 20:59
LFID & Datetime: LA31009A 01/31/11 21:16

COMPOUND	RT OF STANDARDS (MIN) 1.0X	2.0X	10.0X	20.0X	100.0X	300.0X	600.0X	MEAN RT	RT WINDOW FROM	TO	RTWINDOW WIDTH
DIESEL(TOTAL)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C10-C24)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C10-C28)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C10-C25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C9-C24)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C9-C25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C10-C36)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DIESEL(C10-C40)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SURROGATE	0.0X	1.0X	2.0X	3.0X	4.0X	5.0X	11.0X	RT	FROM	TO	WIDTH
BROMOBENZENE	0.000	1.802	1.803	1.803	1.804	1.804	1.810	1.804	1.801	1.807	0.003
HEXACOSANE	0.000	4.989	4.985	4.974	4.968	4.978	4.977	4.979	4.829	5.129	0.150

DS105A31.MET

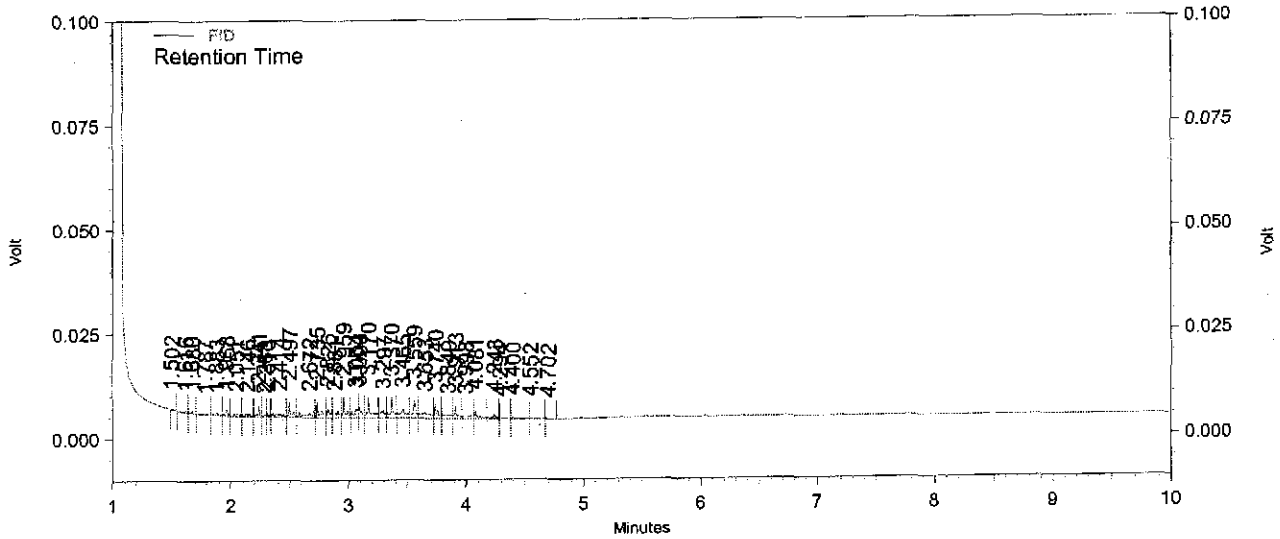
AS
02/03/11

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31003.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3101 DSL 5PPM**
Acquired	**: 01/31/11 19:36:13**
Printed	**: 02/02/11 12:27:49**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
DIESEL(TOTAL)		122812	24599.04010	5.000 CAL
DIESEL(C10-C24)		118291	23410.86119	5.000 CAL
DIESEL(C10-C28)		118478	23469.71800	5.000 CAL
DIESEL(C10-C25)		118478	23440.40724	5.000 CAL
DIESEL(C9-C24)		121745	24028.04814	5.000 CAL
DIESEL(C9-C25)		121932	24057.59419	5.000 CAL
DIESEL(C10-C36)		118478	23470.35462	5.000 CAL
DIESEL(C10-C40)		118478	23470.35462	5.000 CAL
Totals		958692		40.000 CAL



Software Version: Version 3.3.1

AS
02/03/11

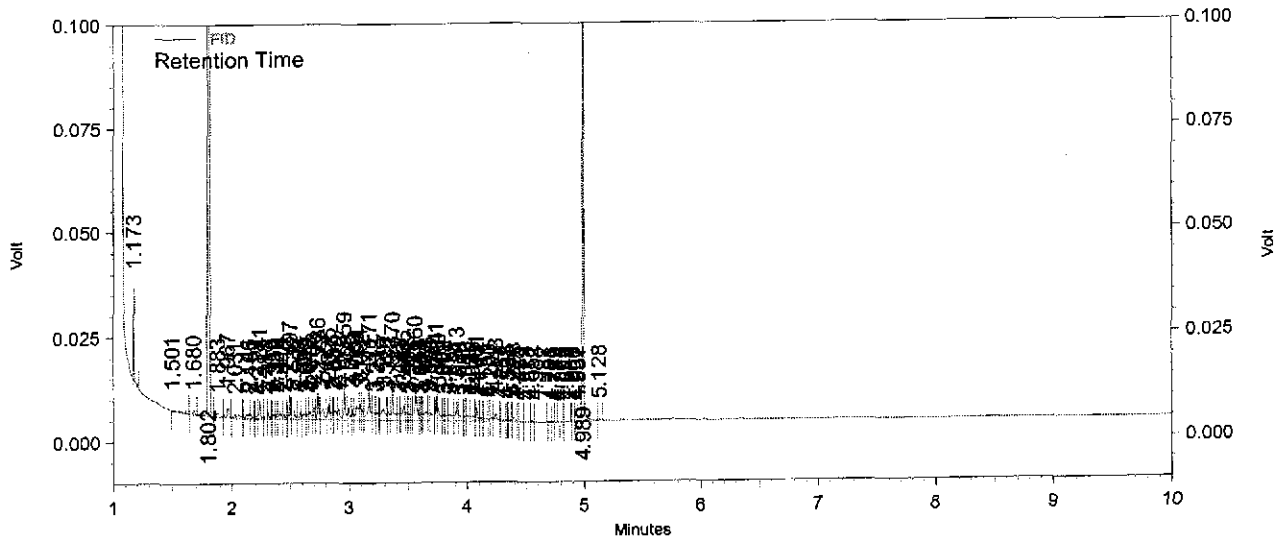
5917

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31004.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3102 DSL 10/20/5PPM**
Acquired	**: 01/31/11 19:52:57**
Printed	**: 02/02/11 12:27:02**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.802	299807	15926.39809	20.000 CAL
HEXACOSANE	4.989	98319	21920.26535	5.000 CAL
DIESEL(TOTAL)		215531	24599.04010	10.000 CAL
DIESEL(C10-C24)		198674	23410.86119	10.000 CAL
DIESEL(C10-C28)		199790	23469.71800	10.000 CAL
DIESEL(C10-C25)		199045	23440.40724	10.000 CAL
DIESEL(C9-C24)		202385	24028.04814	10.000 CAL
DIESEL(C9-C25)		202756	24057.59419	10.000 CAL
DIESEL(C10-C36)		199790	23470.35462	10.000 CAL
DIESEL(C10-C40)		199790	23470.35462	10.000 CAL
Totals		2015887		105.000 CAL



Software Version: Version 3.3.1

AK
02/03/11

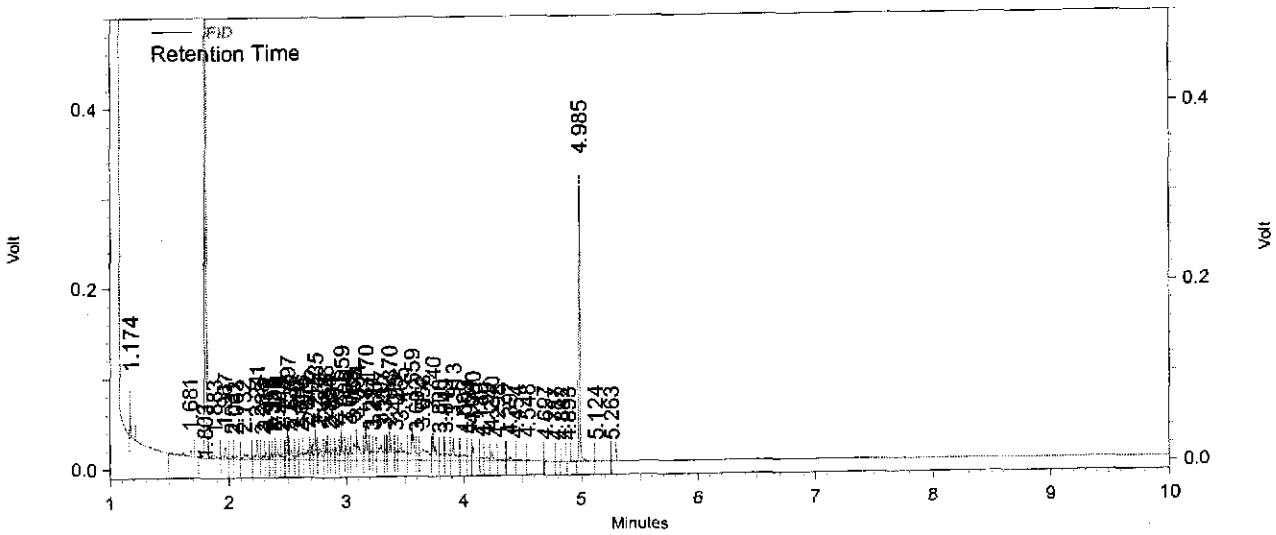
5018

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name: : GCT-105 (Offline)
File : D:\Projects\EZC331\Data\LA31\LA31005.dat
Method : D:\Projects\EZC331\Method\DS105A31.met
Sequence: : D:\Projects\EZC331\Sequence\LA31.seq
Sample ID : DS105A3103 DSL 50/40/10PPM
Acquired : 01/31/11 20:09:41
Printed : 02/02/11 12:26:25
User : KYAW

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.803	643886	15926.39809	40.000 CAL
HEXACOSANE	4.985	222405	21920.26535	10.000 CAL
DIESEL(TOTAL)		1165196	24599.04010	50.000 CAL
DIESEL(C10-C24)		1112210	23410.86119	50.000 CAL
DIESEL(C10-C28)		1115596	23469.71800	50.000 CAL
DIESEL(C10-C25)		1113009	23440.40724	50.000 CAL
DIESEL(C9-C24)		1138810	24028.04814	50.000 CAL
DIESEL(C9-C25)		1139609	24057.59419	50.000 CAL
DIESEL(C10-C36)		1115715	23470.35462	50.000 CAL
DIESEL(C10-C40)		1115715	23470.35462	50.000 CAL
Totals		9882151		450.000 CAL



Software Version: Version 3.3.1

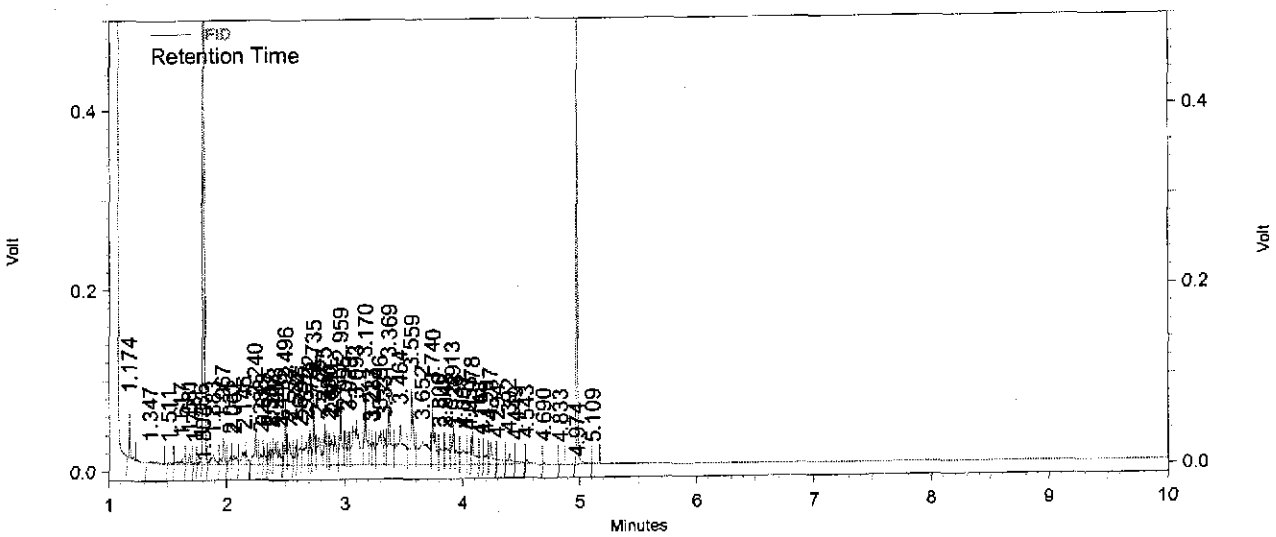
02/03/11

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name: : GCT-105 (Offline)
File : D:\Projects\EZC331\Data\LA31\LA31006.dat
Method : D:\Projects\EZC331\Method\DS105A31.met
Sequence: : D:\Projects\EZC331\Sequence\LA31.seq
Sample ID : DS105A3104 DSL 100/60/15PPM
Acquired : 01/31/11 20:26:23
Printed : 02/02/11 12:25:50
User : KYAW

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.803	954212	15926.39809	60.000 CAL
HEXACOSANE	4.974	337687	21920.26535	15.000 CAL
DIESEL(TOTAL)		2772788	24599.04010	100.000 CAL
DIESEL(C10-C24)		2658212	23410.86119	100.000 CAL
DIESEL(C10-C28)		2660254	23469.71800	100.000 CAL
DIESEL(C10-C25)		2658954	23440.40724	100.000 CAL
DIESEL(C9-C24)		2715311	24028.04814	100.000 CAL
DIESEL(C9-C25)		2716053	24057.59419	100.000 CAL
DIESEL(C10-C36)		2660254	23470.35462	100.000 CAL
DIESEL(C10-C40)		2660254	23470.35462	100.000 CAL
Totals		22793979		875.000 CAL



Software Version: Version 3.3.1

AJ
02/03/11

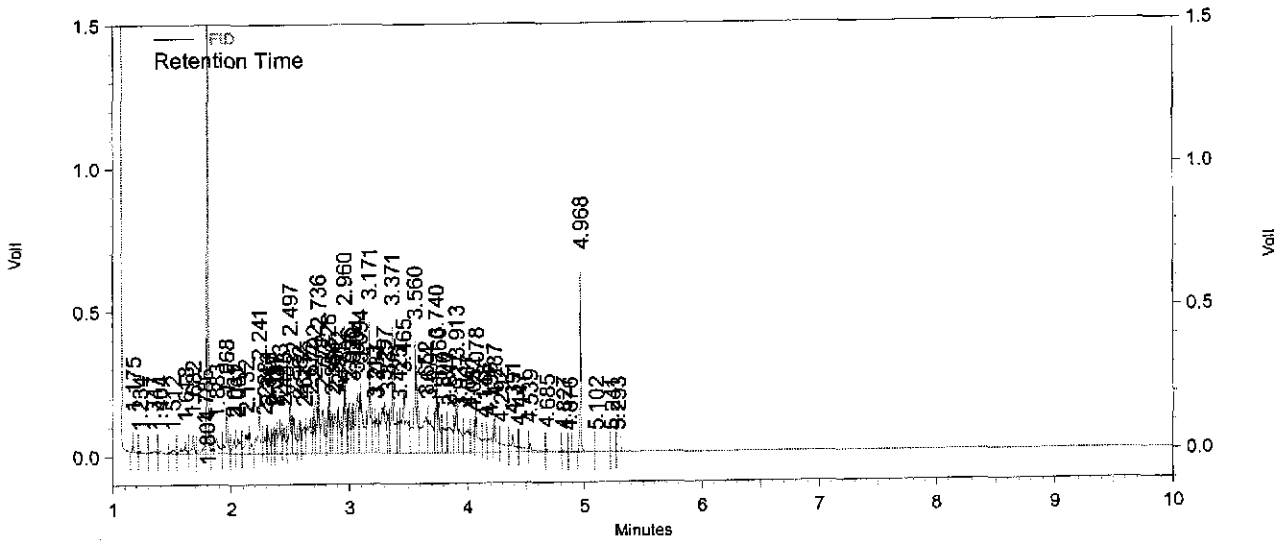
5020

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name: : GCT-105 (Offline)
File : D:\Projects\EZC331\Data\LA31\LA31007.dat
Method : D:\Projects\EZC331\Method\DS105A31.met
Sequence: : D:\Projects\EZC331\Sequence\LA31.seq
Sample ID : DS105A3105 DSL 500/80/20PPM
Acquired : 01/31/11 20:43:04
Printed : 02/02/11 12:25:03
User : KYAW

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.804	1261797	15926.39809	80.000 CAL
HEXACOSANE	4.968	450524	21920.26535	20.000 CAL
DIESEL(TOTAL)		13465501	24599.04010	500.000 CAL
DIESEL(C10-C24)		12988496	23410.86119	500.000 CAL
DIESEL(C10-C28)		12998813	23469.71800	500.000 CAL
DIESEL(C10-C25)		12993818	23440.40724	500.000 CAL
DIESEL(C9-C24)		13273670	24028.04814	500.000 CAL
DIESEL(C9-C25)		13278992	24057.59419	500.000 CAL
DIESEL(C10-C36)		12999100	23470.35462	500.000 CAL
DIESEL(C10-C40)		12999100	23470.35462	500.000 CAL
Totals		106709811		4100.000 CAL



Software Version: Version 3.3.1

AS
02/03/11

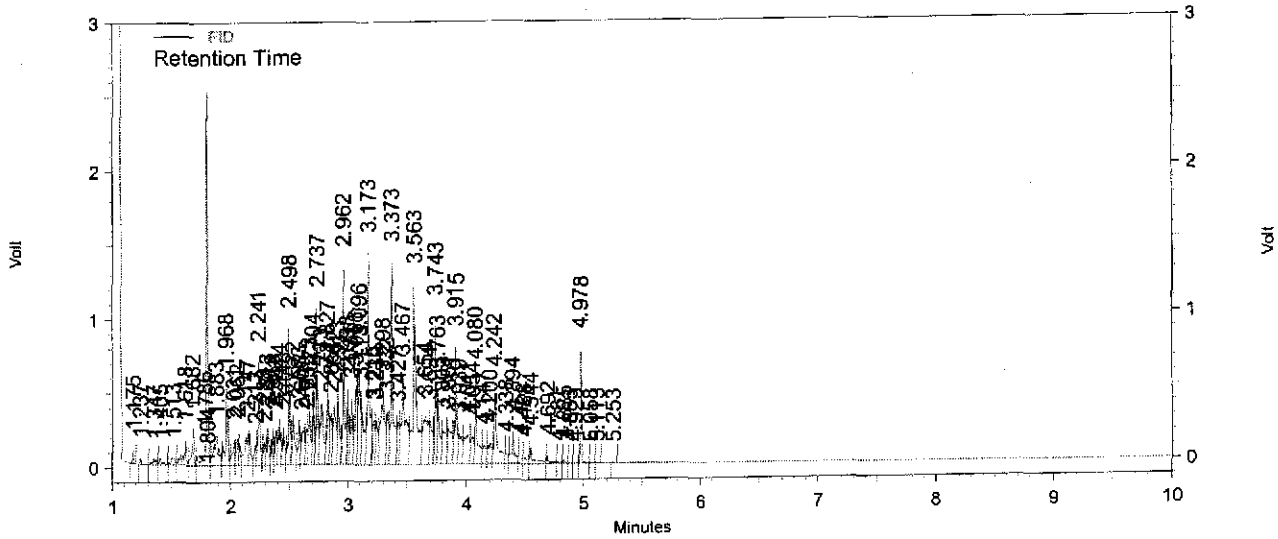
5021

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31008.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3106 DSL 1500/100/25PPM**
Acquired	**: 01/31/11 20:59:48**
Printed	**: 02/02/11 12:24:34**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.804	1645572	15926.39809	100.000 CAL
HEXACOSANE	4.978	554922	21920.26535	25.000 CAL
DIESEL(TOTAL)		36901552	24599.04010	1500.000 CAL
DIESEL(C10-C24)		35039222	23410.86119	1500.000 CAL
DIESEL(C10-C28)		35187708	23469.71800	1500.000 CAL
DIESEL(C10-C25)		35139139	23440.40724	1500.000 CAL
DIESEL(C9-C24)		36143934	24028.04814	1500.000 CAL
DIESEL(C9-C25)		36243851	24057.59419	1500.000 CAL
DIESEL(C10-C36)		35189271	23470.35462	1500.000 CAL
DIESEL(C10-C40)		35189271	23470.35462	1500.000 CAL
Totals		287234442		12125.000 CAL



Software Version: Version 3.3.1

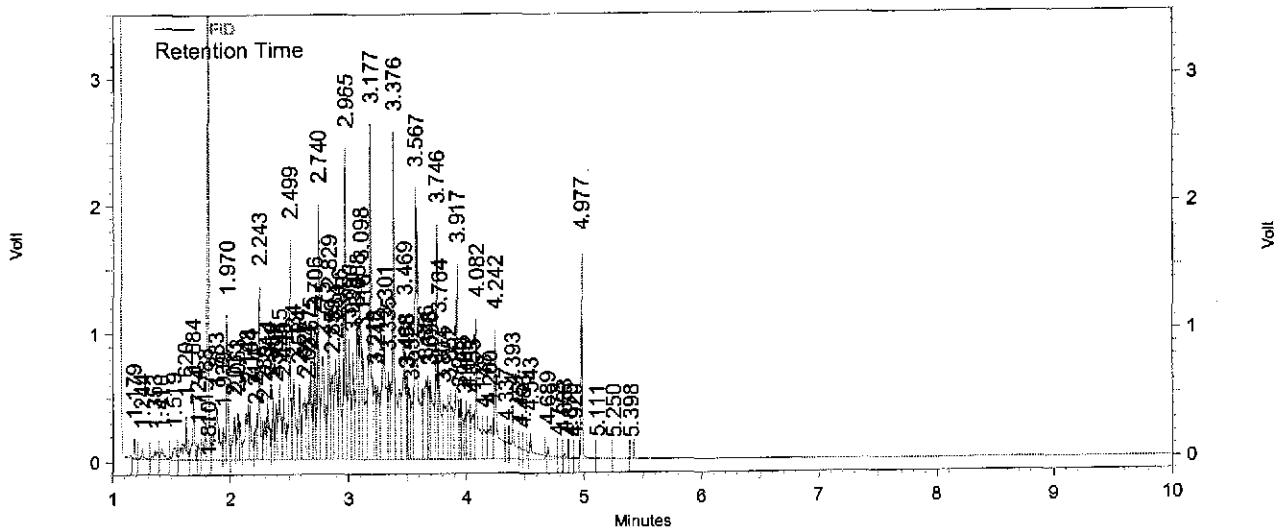
AS
02/03/11

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31009.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3107 DSL 3000/220/55PPM**
Acquired	**: 01/31/11 21:16:37**
Printed	**: 02/02/11 12:03:21**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.810	3594618	15926.39809	220.000 CAL
HEXACOSANE	4.977	1230996	21920.26535	55.000 CAL
DIESEL(TOTAL)		70541832	24599.04010	3000.000 CAL
DIESEL(C10-C24)		66562905	23410.86119	3000.000 CAL
DIESEL(C10-C28)		66728604 ✓	23469.71800	3000.000 CAL
DIESEL(C10-C25)		66657906 ✓	23440.40724	3000.000 CAL
DIESEL(C9-C24)		69108693 ✓	24028.04814	3000.000 CAL
DIESEL(C9-C25)		69203694	24057.59419	3000.000 CAL
DIESEL(C10-C36)		66729985	23470.35462	3000.000 CAL
DIESEL(C10-C40)		66729985	23470.35462	3000.000 CAL
Totals		547089218		24275.000 CAL



Software Version: Version 3.3.1

AJ
02/03/11

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31011A 01/31/11 21:50
LFID & Datetime: LA31012A 01/31/11 22:06
LFID & Datetime: LA31013A 01/31/11 22:23
LFID & Datetime: LA31014A 01/31/11 22:40
LFID & Datetime: LA31015A 01/31/11 22:57
LFID & Datetime: LA31016A 01/31/11 23:14
CONC UNIT: ppm

COMPOUND	CONC X	CALIBRATION FACTORS (AREA)/UNIT 2.00X	10.00X	20.00X	100.00X	300.00X	600.00X	MEAN	%RSD
JP5(C8-C18)	5.00	19456	31549	28633	27719	25431	26788	26596.0	15.3
M.OIL(C18-C36)	5.00	15067	22004	19588	18244	18182	17662	18457.8	12.4
M.OIL(C24-C36)	5.00	12656	18263	16611	15039	15026	14612	15367.7	12.4
M.OIL(C24-C40)	5.00	12656	18269	16611	15039	15092	14761	15404.6	12.3

DS105A31.MET

AS
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5024

INITIAL CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
LFID & Datetime: LA31011A 01/31/11 21:50
LFID & Datetime: LA31012A 01/31/11 22:06
LFID & Datetime: LA31013A 01/31/11 22:23
LFID & Datetime: LA31014A 01/31/11 22:40
LFID & Datetime: LA31015A 01/31/11 22:57
LFID & Datetime: LA31016A 01/31/11 23:14

COMPOUND	RT OF STANDARDS (MIN) 2.0X	10.0X	20.0X	100.0X	300.0X	600.0X	MEAN RT	RT WINDOW FROM	TO	RTWINDOW WIDTH
JP5(C8-C18)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M.OIL(C18-C36)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M.OIL(C24-C36)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
M.OIL(C24-C40)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

DS105A31.MET

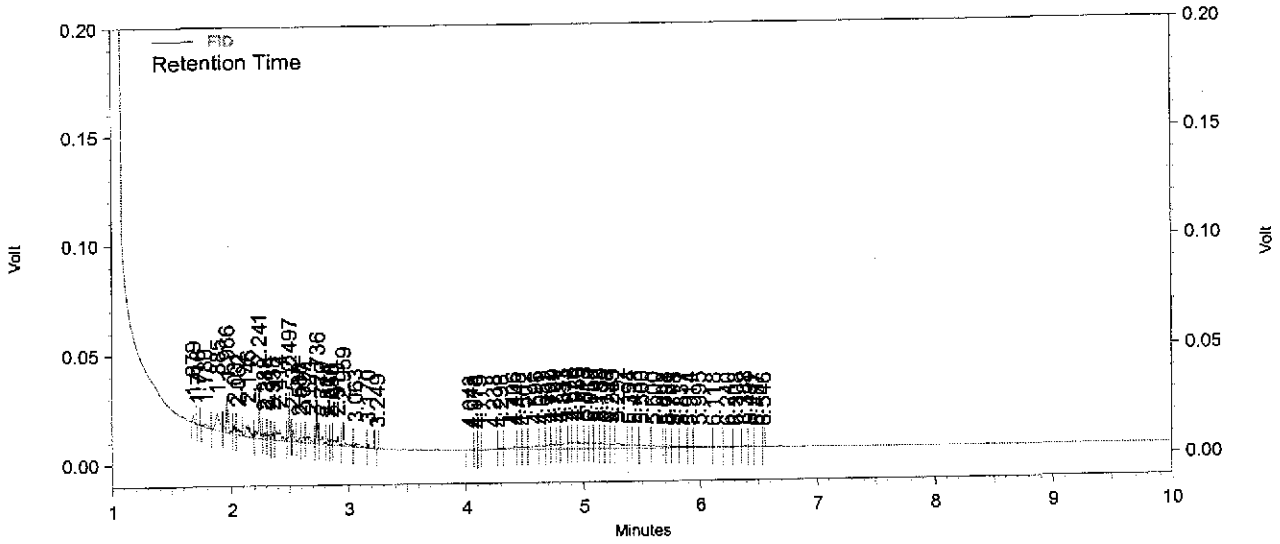
02/03/11

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31011.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3108 JP5/5W30 10/10PPM**
Acquired	**: 01/31/11 21:50:01**
Printed	**: 02/02/11 13:03:18**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		194557	26595.96389	10.000 CAL
M.OIL(C18-C36)		150673	18457.80983	10.000 CAL
M.OIL(C24-C36)		126560	15367.71978	10.000 CAL
M.OIL(C24-C40)		126560	15404.61294	10.000 CAL
Totals		598350		40.000 CAL



Software Version: Version 3.3.1

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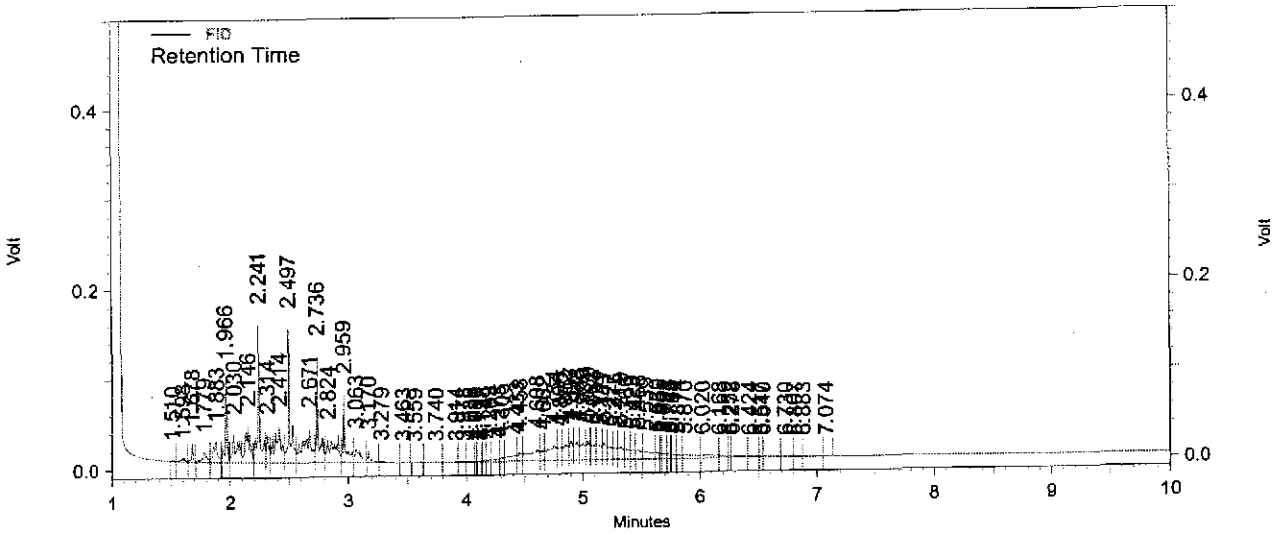
5026

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31012.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3109 JP5/5W30 50/50PPM**
Acquired	**: 01/31/11 22:06:46**
Printed	**: 02/02/11 13:04:07**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		1577455	26595.96389	50.000 CAL
M.OIL(C18-C36)		1100182	18457.80983	50.000 CAL
M.OIL(C24-C36)		913130	15367.71978	50.000 CAL
M.OIL(C24-C40)		913431	15404.61294	50.000 CAL
Totals		4504198		200.000 CAL



Software Version: Version 3.3.1

AS
02/03/10

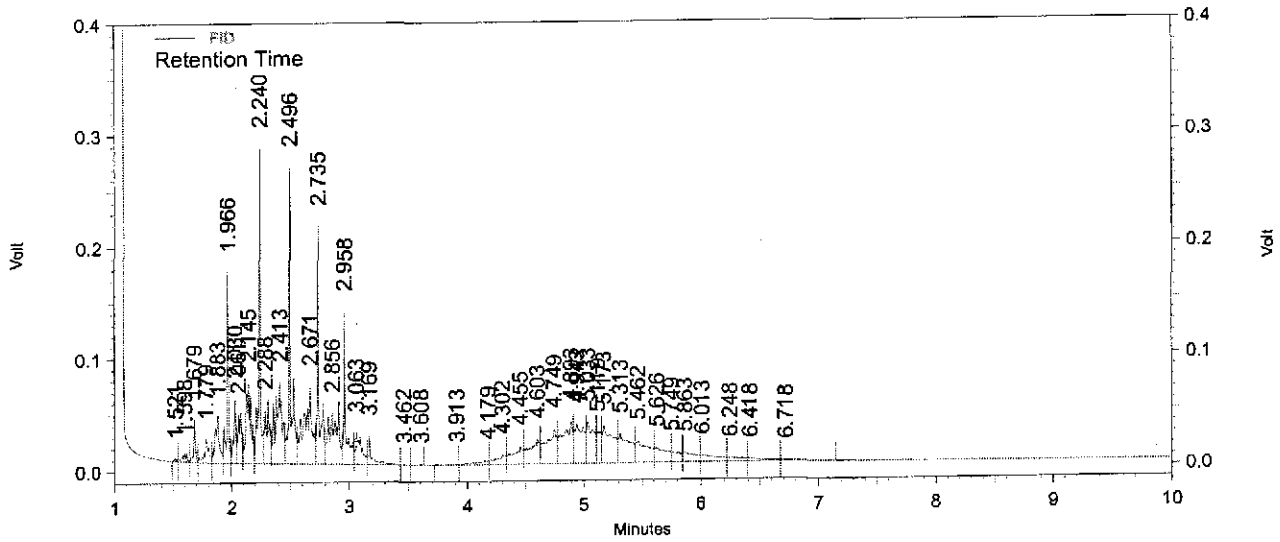
5027

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31013.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3110 JP5/5W30 100/100PPM**
Acquired	**: 01/31/11 22:23:30**
Printed	**: 02/02/11 13:04:53**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		2863303	26595.96389	100.000 CAL
M.OIL(C18-C36)		1958799	18457.80983	100.000 CAL
M.OIL(C24-C36)		1661112	15367.71978	100.000 CAL
M.OIL(C24-C40)		1661112	15404.61294	100.000 CAL
Totals		8144326		400.000 CAL



Software Version: Version 3.3.1

AS
02/03/10

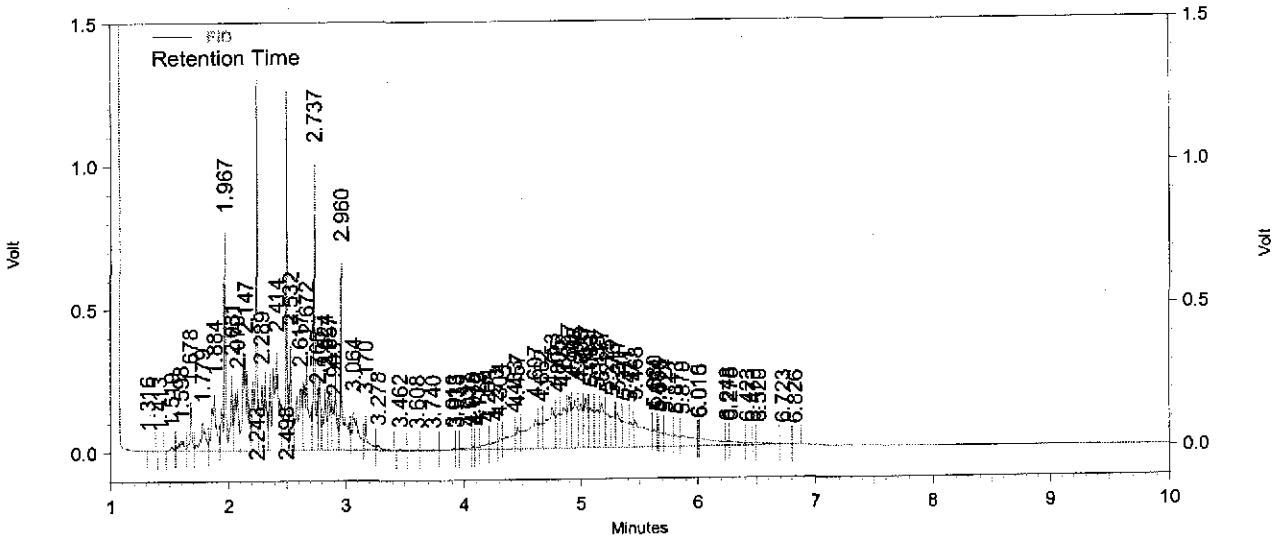
5628

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31014.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3111 JP5/5W30 500/500PPM**
Acquired	**: 01/31/11 22:40:12**
Printed	**: 02/02/11 13:05:23**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-CI8)		13859455	26595.96389	500.000 CAL
M.OIL(C18-C36)		9121865	18457.80983	500.000 CAL
M.OIL(C24-C36)		7519259	15367.71978	500.000 CAL
M.OIL(C24-C40)		7519259	15404.61294	500.000 CAL
Totals		38019838		2000.000 CAL



Software Version: Version 3.3.1

AS
02/03/10

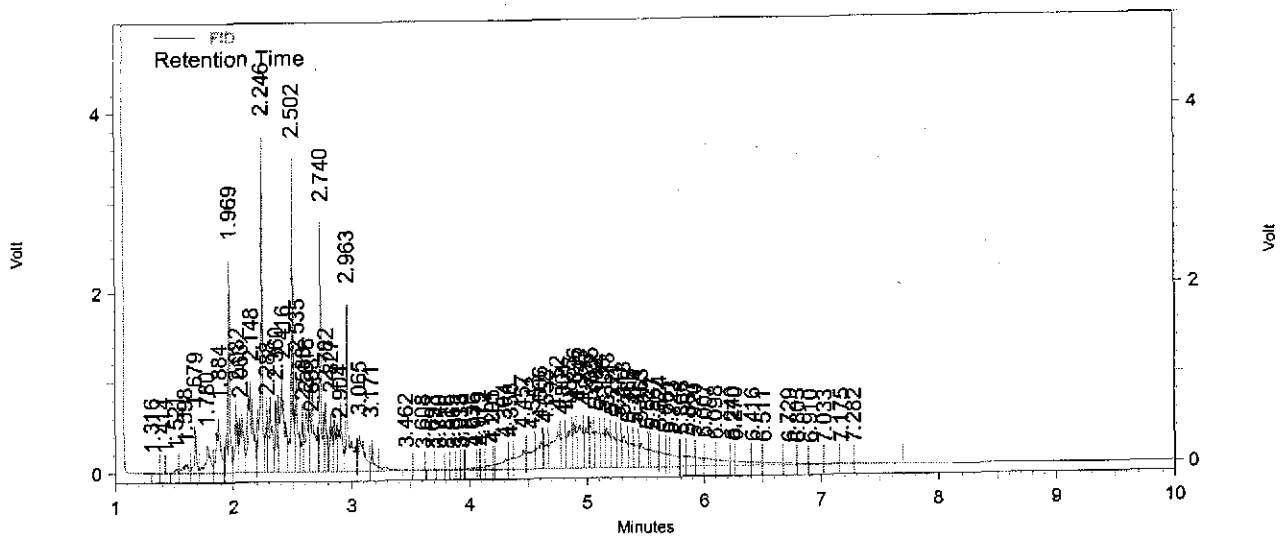
5029

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31015.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3112 JP5/5W30 1500/1500PPM**
Acquired	**: 01/31/11 22:57:02**
Printed	**: 02/02/11 13:05:58**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		38146371	26595.96389	1500.000 CAL
M.OIL(C18-C36)		27272982	18457.80983	1500.000 CAL
M.OIL(C24-C36)		22539227	15367.71978	1500.000 CAL
M.OIL(C24-C40)		22638062	15404.61294	1500.000 CAL
Totals		110596642		6000.000 CAL



Software Version: Version 3.3.1

AD
02/03/11

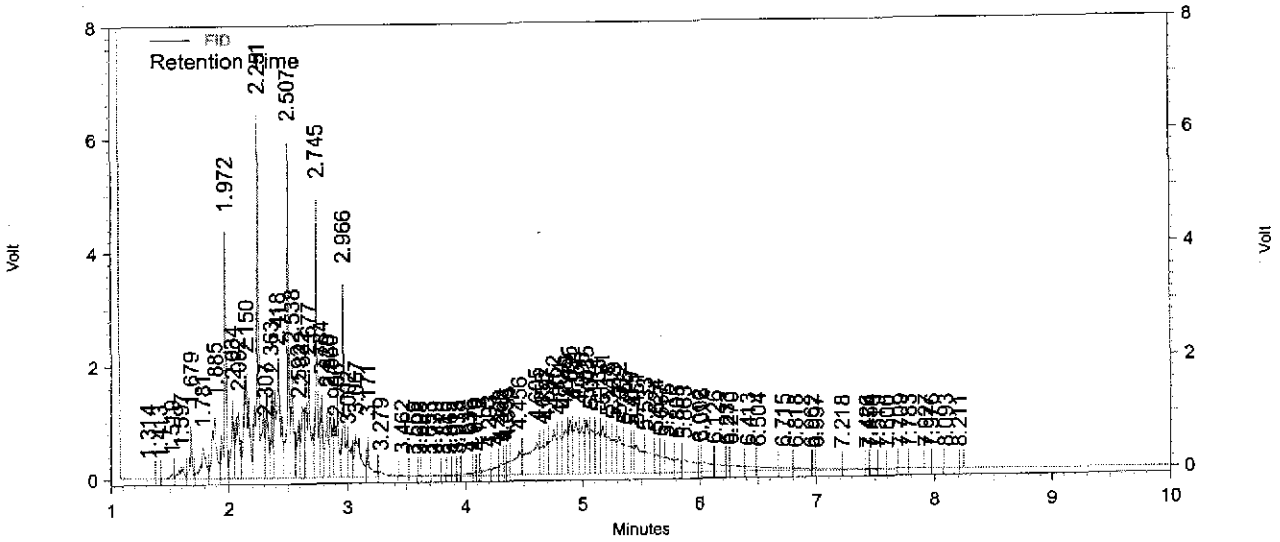
5030

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31016.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3113 JP5/5W30 3000/3000PPM**
Acquired	**: 01/31/11 23:14:00**
Printed	**: 02/02/11 13:06:46**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		80364388	26595.96389	3000.000 CAL
M.OIL(C18-C36)		52986633	18457.80983	3000.000 CAL
M.OIL(C24-C36)		43835788	15367.71978	3000.000 CAL
M.OIL(C24-C40)		44284135	15404.61294	3000.000 CAL
Totals		221470944		12000.000 CAL



Software Version: Version 3.3.1

Rg
02/03/11

SECOND SOURCE

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Cont LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LA31010A 01/31/2011 21:33
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12017210	488.52	-2		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11122168	475.09	-5		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11130901	474.27	-5		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11130901	474.86	-5		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	11613427	483.33	-3		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	11622160	483.10	-3		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11130901	474.25	-5		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11130901	474.25	-5		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
BROMOBENZENE	1.804	1.801	1.807	80.0	15926.4	1299173	81.57	2		15
HEXACOSANE	4.972	4.822	5.122	20.0	21920.3	453227	20.68	3		15

DS105A31.MET

02/03/11

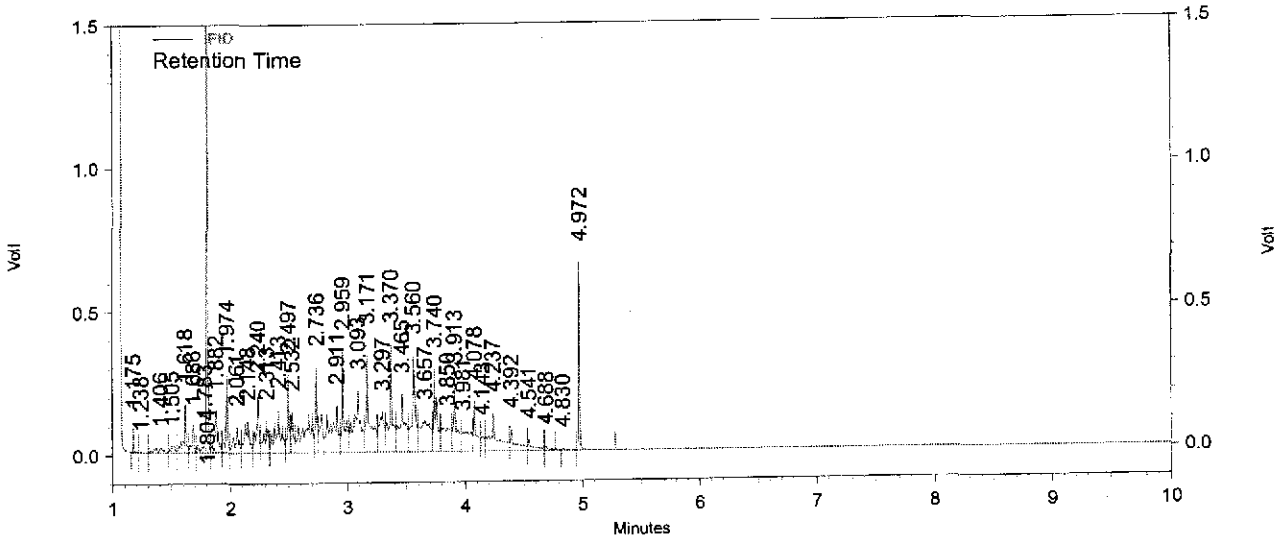
5033

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31010.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: IDS105A3101 DSL 500/80/20PPM**
Acquired	**: 01/31/11 21:33:20**
Printed	**: 02/02/11 12:30:34**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.804	1299173	15926.39809	81.574
HEXACOSANE	4.972	453227	21920.26535	20.676
DIESEL(TOTAL)		12017210	24599.04010	488.524
DIESEL(C10-C24)		11122168	23410.86119	475.086
DIESEL(C10-C28)		11130901	23469.71800	474.266
DIESEL(C10-C25)		11130901	23440.40724	474.860
DIESEL(C9-C24)		11613427	24028.04814	483.328
DIESEL(C9-C25)		11622160	24057.59419	483.097
DIESEL(C10-C36)		11130901	23470.35462	474.254
DIESEL(C10-C40)		11130901	23470.35462	474.254
Totals		92650969		3929.918



Software Version: Version 3.3.1

AJ
02/03/11

5034

INITIAL CALIBRATION VERIFICATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LA31017A 01/31/2011 23:30
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	12575110	472.82	-5		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9614600	520.90	4		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8178190	532.17	6		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8178190	530.89	6		15

DS105A31.MET

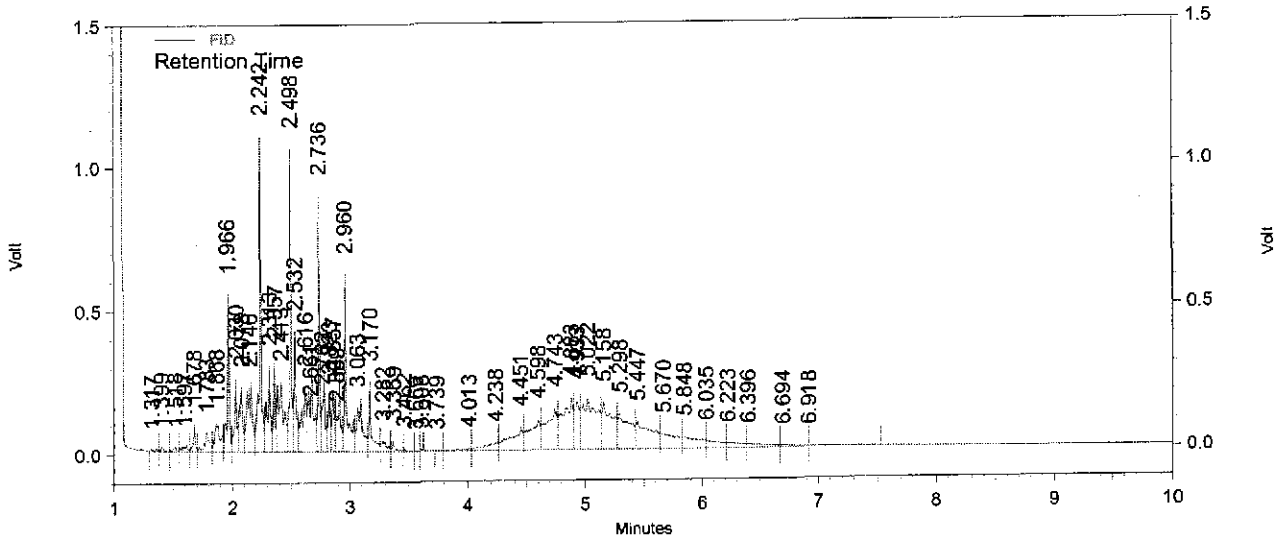
AS
02/03/11
5035

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31017.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DS105A3102 JP5/5W30 500/500PPM**
Acquired	**: 01/31/11 23:30:47**
Printed	**: 02/02/11 13:08:34**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		12575110	26595.96389	472.820
M.OIL(C18-C36)		9614600	18457.80983	520.896
M.OIL(C24-C36)		8178190	15367.71978	532.167
M.OIL(C24-C40)		8178190	15404.61294	530.892
Totals		38546090		2056.775



Software Version: Version 3.3.1

AS 02/03/11

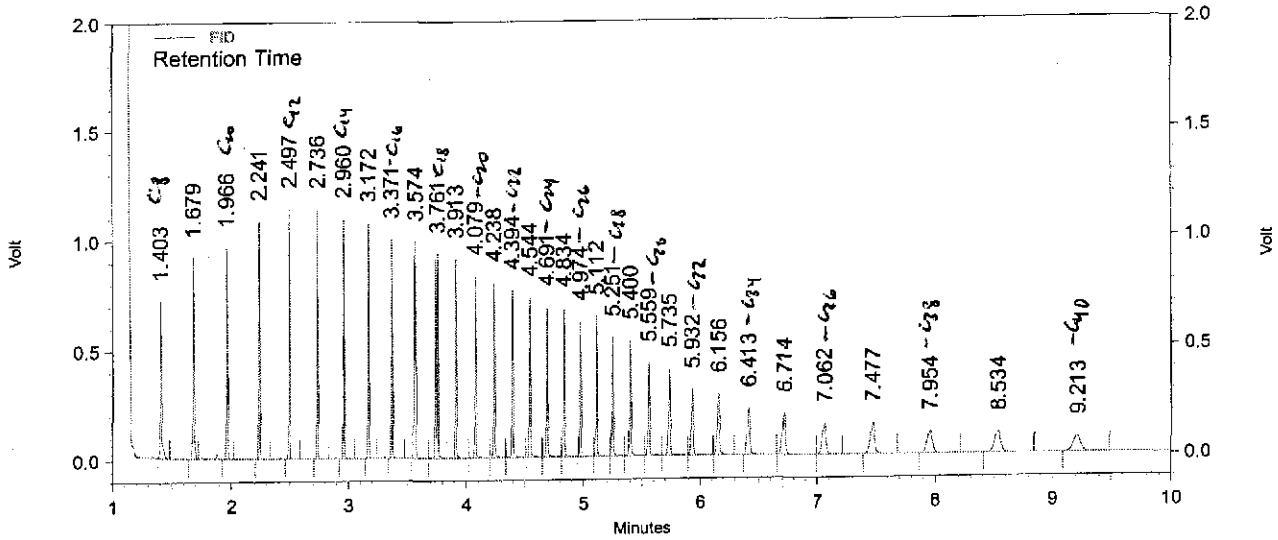
5036

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LA31\LA31018.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LA31.seq**
Sample ID	**: DRO**
Acquired	**: 01/31/11 23:47:36**
Printed	**: 02/02/11 13:59:38**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.679	618317	15926.39809	38.823
HEXACOSANE	4.974	438808	21920.26535	20.018
DIESEL(TOTAL)		15659150	24599.04010	636.576
DIESEL(C10-C24)		8710427	23410.86119	372.068
DIESEL(C10-C28)		10052236	23469.71800	428.307
DIESEL(C10-C25)		8710427	23440.40724	371.599
DIESEL(C9-C24)		9319443	24028.04814	387.857
DIESEL(C9-C25)		9319443	24057.59419	387.381
DIESEL(C10-C36)		13120003	23470.35462	559.003
DIESEL(C10-C40)		14154474	23470.35462	603.079
Totals		90102728		3804.710



Software Version: Version 3.3.1

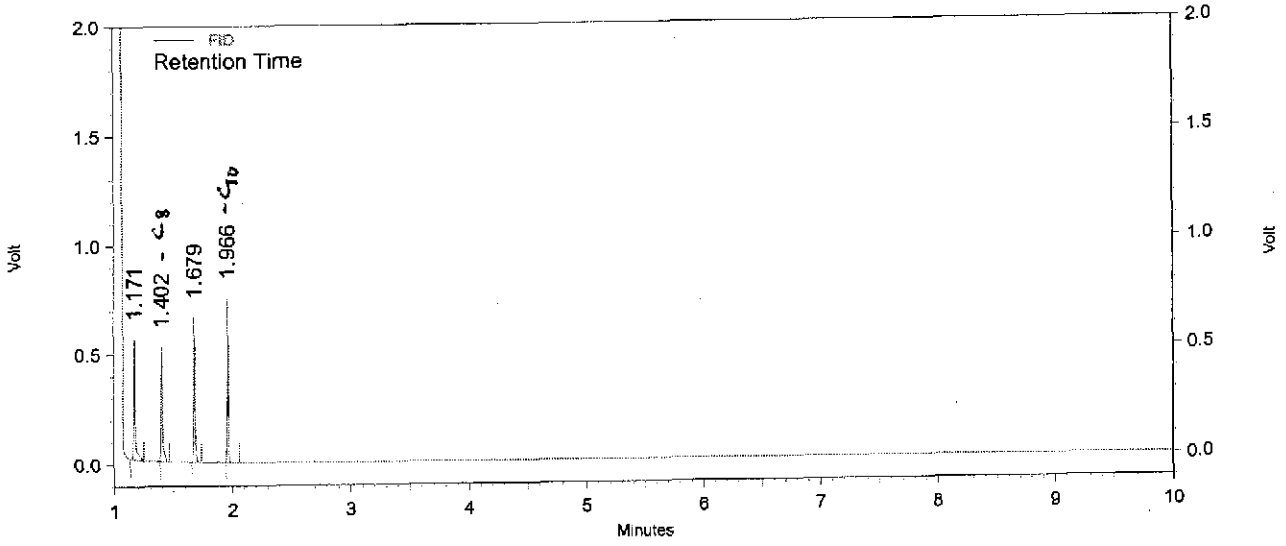
AS 02/03/11

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name: : GCT-105 (Offline)
File : D:\Projects\EZC331\Data\LA31\LA31019.dat
Method : D:\Projects\EZC331\Method\DS105A31.met
Sequence: : D:\Projects\EZC331\Sequence\LA31.seq
Sample ID : GRO
Acquired : 02/01/11 00:04:33
Printed : 02/02/11 14:00:07
User : KYAW

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.679	479050	15926.39809	30.079
HEXACOSANE				0.000 BDL
DIESEL(TOTAL)		1387647	24599.04010	56.411
DIESEL(C10-C24)		0	23410.86119	0.000
DIESEL(C10-C28)		0	23469.71800	0.000
DIESEL(C10-C25)		0	23440.40724	0.000
DIESEL(C9-C24)		475081	24028.04814	19.772
DIESEL(C9-C25)		475081	24057.59419	19.748
DIESEL(C10-C36)		0	23470.35462	0.000
DIESEL(C10-C40)		0	23470.35462	0.000
Totals		2816859		126.009



Software Version: Version 3.3.1

AS 02/03/11

DAILY CALIBRATION

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Columm : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LB22003A 02/22/2011 17:03
CONC UNIT : ppm

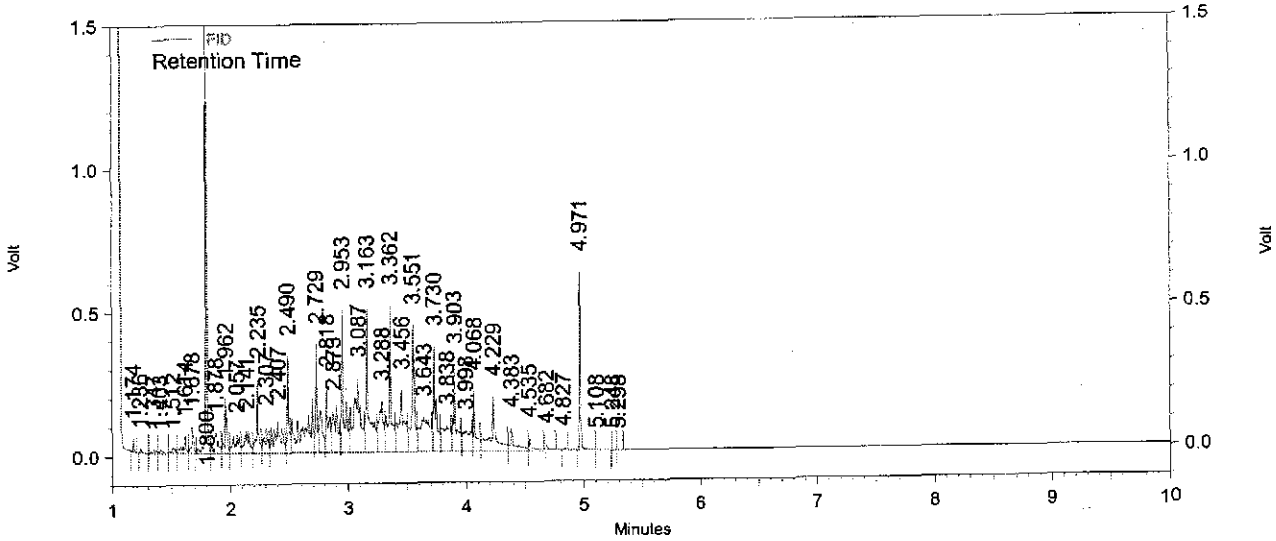
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12194992	495.75	-1		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11422915	487.93	-2		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11434795	487.21	-3		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11431074	487.67	-2		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	11863047	493.72	-1		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	11871206	493.45	-1		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11435275	487.22	-3		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11435275	487.22	-3		15
SURROGATE	**MINUTES**	**FROM**	**TO**	**TRUECON**	**CF**	**AREA**	**CONC**	**%D**	**QL**	**LIMITS**
BROMOBENZENE	1.800	1.797	1.803	80.0	15926.4	1280270	80.39	0		15
HEXACOSANE	4.971	4.821	5.121	20.0	21920.3	439279	20.04	0		15

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22003.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: CDS105A31109 DSL 500/80/20PPM**
Acquired	**: 02/22/11 17:03:15**
Printed	**: 03/01/11 10:07:21**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.800	1280270	15926.39809	80.387
HEXACOSANE	4.971	439279	21920.26535	20.040
DIESEL(TOTAL)		12194992	24599.04010	495.751
DIESEL(C10-C24)		11422915	23410.86119	487.932
DIESEL(C10-C28)		11434795	23469.71800	487.215
DIESEL(C10-C25)		11431074	23440.40724	487.665
DIESEL(C9-C24)		11863047	24028.04814	493.717
DIESEL(C9-C25)		11871206	24057.59419	493.449
DIESEL(C10-C36)		11435275	23470.35462	487.222
DIESEL(C10-C40)		11435275	23470.35462	487.222
Totals		94808128		4020.600



☐ Incorrect Retention Time
☑ Incorrect Baseline
☐ Incorrect Integration
☐ Other _____
Initials _____
Date 3/1/11

Software Version: Version 3.3.1

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LB22004A 02/22/2011 17:20
CONC UNIT : ppm

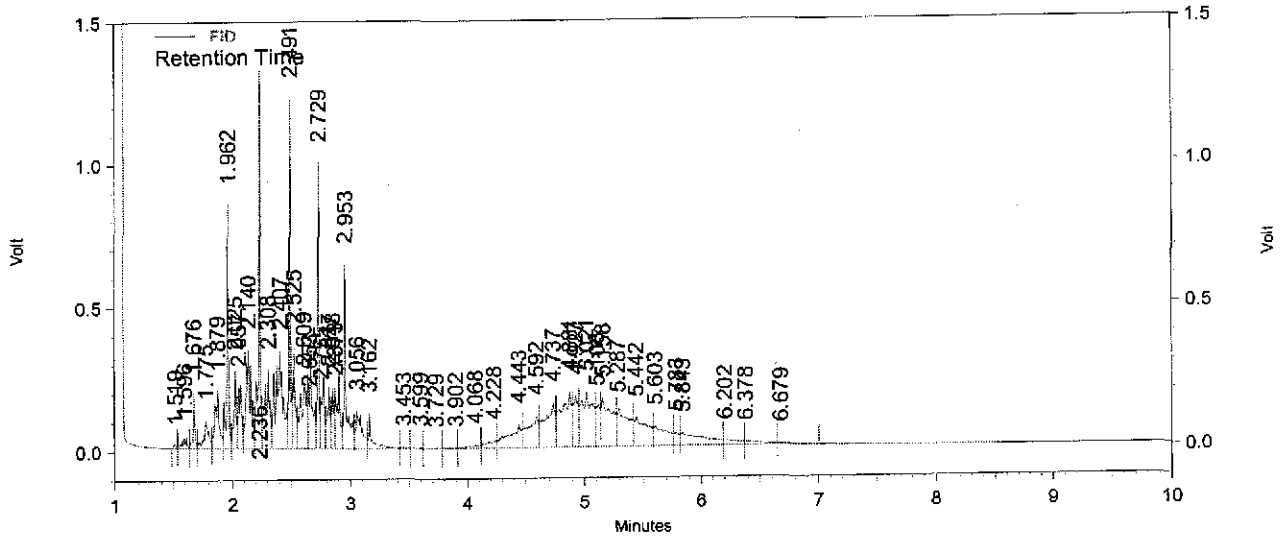
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	13675064	514.18	3		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9864934	534.46	7		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8387535	545.79	9		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8387535	544.48	9		15

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22004.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB25.seq**
Sample ID	**: *CDS105A31110 JP5/5W30PPM***
Acquired	**: 02/22/11 17:20:12**
Printed	**: 03/01/11 10:05:15**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		13675064	26595.96389	514.178
M.OIL(C18-C36)		9864934	18457.80983	534.459
M.OIL(C24-C36)		8387535	15367.71978	545.789
M.OIL(C24-C40)		8387535	15404.61294	544.482
Totals		40315068		2138.908



☐ Incorrect Retention Time
☑ Incorrect Baseline
☐ Incorrect Integration
☐ Other _____
Initials km
Date 3/1/11

Software Version: Version 3.3.1

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31007A 01/31/2011 20:43
Conc Cont LFID & Datetime: LB22015A 02/22/2011 20:25
CONC UNIT : ppm

COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
DIESEL(TOTAL)	NA	NA	NA	500.0	24599.0	12410281	504.50	1		15
DIESEL(C10-C24)	NA	NA	NA	500.0	23410.9	11650406	497.65	-0		15
DIESEL(C10-C28)	NA	NA	NA	500.0	23469.7	11665312	497.04	-1		15
DIESEL(C10-C25)	NA	NA	NA	500.0	23440.4	11659230	497.40	-1		15
DIESEL(C9-C24)	NA	NA	NA	500.0	24028.0	12098057	503.50	1		15
DIESEL(C9-C25)	NA	NA	NA	500.0	24057.6	12106881	503.25	1		15
DIESEL(C10-C36)	NA	NA	NA	500.0	23470.4	11665676	497.04	-1		15
DIESEL(C10-C40)	NA	NA	NA	500.0	23470.4	11665676	497.04	-1		15

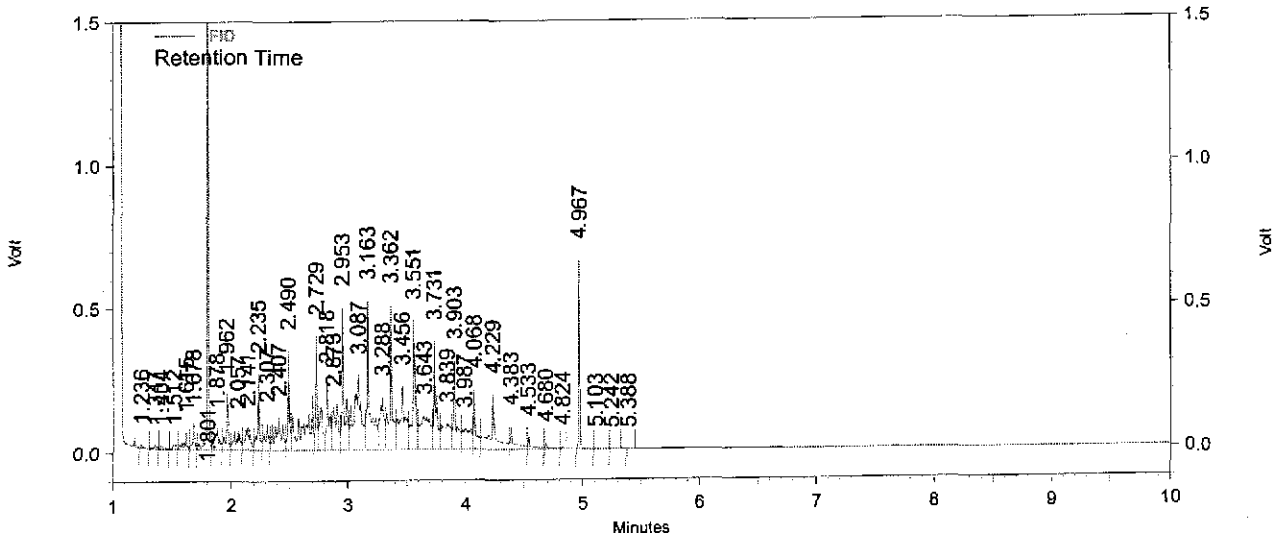
SURROGATE	MINUTES	FROM	TO	TRUECON	CF	AREA	CONC	%D	QL	LIMITS
BROMOBENZENE	1.801	1.798	1.804	80.0	15926.4	1304108	81.88	2		15
HEXACOSANE	4.967	4.817	5.117	20.0	21920.3	450530	20.55	3		15

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22015.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB22.seq**
Sample ID	**: CDS105A31111 DSL 500/80/20PPM**
Acquired	**: 02/22/11 20:25:18**
Printed	**: 03/01/11 10:07:58**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
BROMOBENZENE	1.801	1304108	15926.39809	81.883
HEXACOSANE	4.967	450530	21920.26535	20.553
DIESEL(TOTAL)		12410281	24599.04010	504.503
DIESEL(C10-C24)		11650406	23410.86119	497.650
DIESEL(C10-C28)		11665312	23469.71800	497.037
DIESEL(C10-C25)		11659230	23440.40724	497.399
DIESEL(C9-C24)		12098057	24028.04814	503.497
DIESEL(C9-C25)		12106881	24057.59419	503.246
DIESEL(C10-C36)		11665676	23470.35462	497.039
DIESEL(C10-C40)		11665676	23470.35462	497.039
Totals		96676157		4099.845



☐ Incorrect Retention Time
☑ Incorrect Baseline
☐ Incorrect Integration
☐ Other _____
Initials km
Date 3/1/11

Software Version: Version 3.3.1

CONTINUE CALIBRATION
METHOD M8015

Lab Name : EMAX Inc
Instrument ID : GCT105
GC Column : HP5
Column size ID : 30MX0.32MM 0.25UM
Mid Conc Init LFID & Datetime: LA31014A 01/31/2011 22:40
Conc Cont LFID & Datetime: LB22016A 02/22/2011 20:42
CONC UNIT : ppm

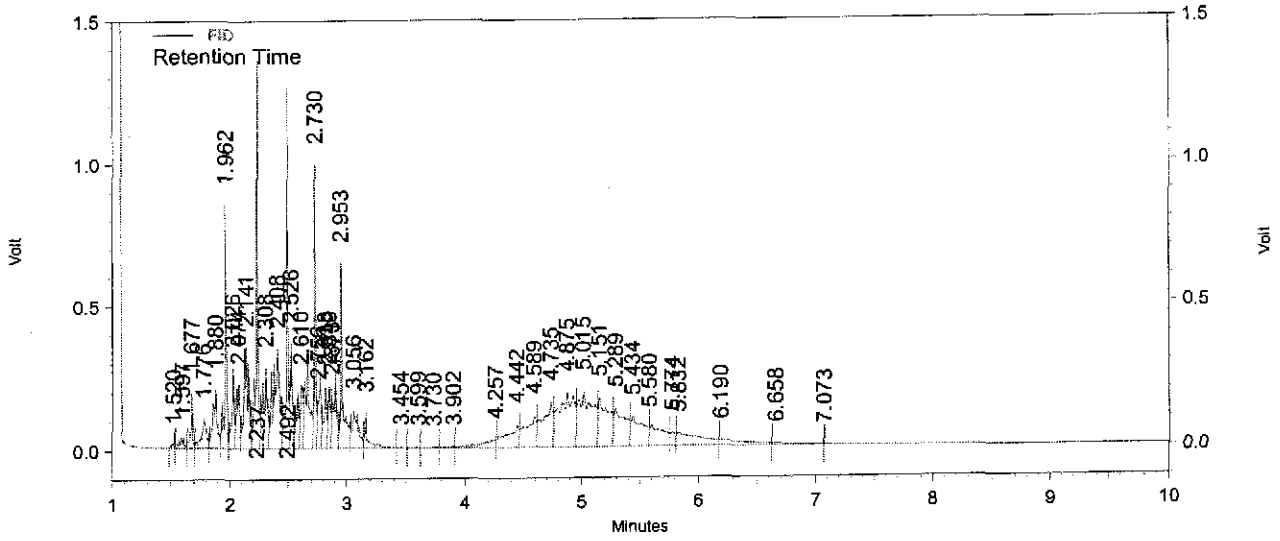
COMPOUND	RT MINUTES	RT WINDOW FROM	RT WINDOW TO	TRUE CONC	AVERAGE CF	RESULT AREA	RESULT CONC	%D	QL	%D LIMITS
JP5(C8-C18)	NA	NA	NA	500.0	26596.0	12743405	479.15	-4		15
M.OIL(C18-C36)	NA	NA	NA	500.0	18457.8	9966495	539.96	8		15
M.OIL(C24-C36)	NA	NA	NA	500.0	15367.7	8474010	551.42	10		15
M.OIL(C24-C40)	NA	NA	NA	500.0	15404.6	8474011	550.10	10		15

METHOD 8015 by GC/FID
EMAX Laboratories, Inc.

Inst. Name:	**: GCT-105 (Offline)**
File	**: D:\Projects\EZC331\Data\LB22\LB22016.dat**
Method	**: D:\Projects\EZC331\Method\DS105A31.met**
Sequence:	**: D:\Projects\EZC331\Sequence\LB25.seq**
Sample ID	**: CDS105A31112 JP5/5W30PPM**
Acquired	**: 02/22/11 20:42:11**
Printed	**: 03/01/11 10:05:32**
User	**: KYAW**

FID Results

Name	Retention Time	Area	Average RF	ESTD concentration
JP5(C8-C18)		12743405	26595.96389	479.148
M.OIL(C18-C36)		9966495	18457.80983	539.961
M.OIL(C24-C36)		8474010	15367.71978	551.416
M.OIL(C24-C40)		8474011	15404.61294	550.096
Totals		39657921		2120.621



☐ Incorrect Retention Time
☒ Incorrect Baseline
☐ Incorrect Integration
☐ Other _____
Initials KW
Date 3/1/11

Software Version: Version 3.3.1

EXTRACTION LOGS

EMAX LABORATORIES, INC.

EXTRACTION LOG
for
TPH

SOP	Rev. #
☐ EMAX-3510	1
☐ EMAX-3520	3
☐ EMAX-3540	1
☑ EMAX-3550	3
☐ EMAX-3580	1
☐ EMAX-8015AZ	0
☐ EMAX-AK 102/103	3
☐ EMAX-LUFT E	3
☐ EMAX-	

Book #: EDS-052

Preparation Batch: DSB029S

Matrix: SOIL

STANDARDS	ID	Amount Added (ml)
Surrogate	SS3-009-03-21	0.5
~~Surrogate~~ LCS/MS	SS3-009-03-24	0.10
~~MICROPIPETTE ID LCS/MS~~	DE80-04 (1000uL) DE97C-03 (100uL)	
LCS/MS		
Reagent	**Lot # / ID**	
CH_2Cl_2	50204	
Na_2SO_4	SWB-002-06-4	
HCl		
Silica Sand	78686	
Silica Gel		

Note: For samples relevant QCs/Standards extracted, refer to attached extraction sequence.

Comments:

LAB SAMPLE ID	SONICATOR #	TURBO VAP #
DSB029-SB	4	1
-SL	6	1
-SC	6	1
B186 -12	4	1
B198 -01	6	1
-02	6	1
-03	4	2
-04	6	2
-05	6	2
-06	6	2
-07	6	2
-07M	4	2
-07S	4	3
B217 -01	4	8

TUNING

Sonicator #	Reading
4	470
6	25%

Concentrator Water Bath Temp. (°C)

1	35	35
2	35	35
3	35	35
4		
5		
6		

Test thermometer = T_1

Prepared By: JR Standard Added By: JR

Witnessed By: SS Checked By: JM

Extract Received By: AA 3/22/10 Extraction Location: SEOC #30

Disposal Date: Disposed By:

EMAX LABORATORIES, INC.

FileID: DSB029S

EXTRACTION LOG FOR EXTRACTABLE TPH

PrepBatchID	LabSampleID	Aliquot	Unit	DateTime	Ve(ml)	ExpAmt	ExpVe(ml)	PrepFctr	Comments
11DSB029S01	DSB029SB	10	g	2/22/11 10:06	10	10	10	1	
11DSB029S02	DSB029SL	10	g	2/22/11 10:06	10	10	10	1	
11DSB029S03	DSB029SC	10	g	2/22/11 10:06	10	10	10	1	
11DSB029S04	B186-12	10	g	2/22/11 10:07	10	10	10	1	
11DSB029S05	B198-01	10.01	g	2/22/11 10:08	10	10	10	1	
11DSB029S06	B198-02	10.03	g	2/22/11 10:10	10	10	10	1	
11DSB029S07	B198-03	10.01	g	2/22/11 10:11	10	10	10	1	
11DSB029S08	B198-04	10	g	2/22/11 10:13	10	10	10	1	
11DSB029S09	B198-05	10.03	g	2/22/11 10:14	10	10	10	1	
11DSB029S10	B198-06	10.03	g	2/22/11 10:15	10	10	10	1	
11DSB029S11	B198-07	10.02	g	2/22/11 10:16	10	10	10	1	
11DSB029S12	B198-07M	10.01	g	2/22/11 10:16	10	10	10	1	
11DSB029S13	B198-07S	10.02	g	2/22/11 10:17	10	10	10	1	
11DSB029S14	B217-01	10.03	g	2/22/11 10:18	10	10	10	1	

Balance ID: 10203192. Calibration check was verified prior to use.

Ve=extract volume

PrepFctr=(ExpAmt/Aliquot)(Ve/ExpVe)

☑ Extraction Started @ 2/22/11 10:56

Prepared By: jvillena

☑ Extraction Ended @ 2/22/11 12:42

Checked By: JM

Comments:

Date 2/22/11

ANALYTICAL LOGS

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
TPH

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

Book #: A105-014

Instrument No.: 105

Analytical Sequence: LA31

Method File: DS105A31

Analytical Batch: CDS105A31961

SOP #	Rev. #
☑ EMAX-8015	4
☐ EMAX-LUFT	3
☐ EMAX-AK102/AK103	3
☐ EMAX-	

STANDARDS ID		Conc (mg/L)
ICAL	~~SS3B-13-07-03~~	
☑ Diesel ☐ Alcohol	SS3B-13-~~07-03~~ 08-01	5 → 3000
☑ Motor Oil ☑ JP5	SS3B-13-08-02	10 → 3000
CH_2Cl_2	50204	Pure
DSL ~~DCC~~ ICV	SS3B-13-~~08-01~~ 07-03	500/80/20
LCS		
JP5/5W30 ~~DCC~~ ICV	SS3B-13-08-03	500/500
Alaska DCC		
Arizona DCC		
DRO (C_8-C_{40})	SS3B-11-95-2	—
GRO (C_6-C_{10})	SS3B-11-82-1	—

ELECTRONIC DATA ARCHIVAL	
Location	Date
☐ EZCELITE-11	
☐	

Analyzed By: KHL

Date: 1/31/11

GCT-105 (Offline) Method: CC105A26.met Data: LB01012.dat Project: EZC331 - [Sequence: LA31.seq]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: FID

Run #	Status	Vial	Volume	Sample ID	Method	Filename	Dilution	Action	Description
1		26	2	IB	DS105A31.met	LA31001.dat	1		
2		27	2	IB105A31961	DS105A31.met	LA31002.dat	1		
3		28	2	DS105A3101 DSL 5PPM	DS105A31.met	LA31003.dat	1		DSL + SVCC ICAL
4		29	2	DS105A3102 DSL 10/20/5PPM	DS105A31.met	LA31004.dat	1		
5		30	2	DS105A3103 DSL 50/40/10PPM	DS105A31.met	LA31005.dat	1		
6		31	2	DS105A3104 DSL 100/60/15PPM	DS105A31.met	LA31006.dat	1		
7		32	2	DS105A3105 DSL 500/80/20PPM	DS105A31.met	LA31007.dat	1		
8		33	2	DS105A3106 DSL 1500/100/25PPM	DS105A31.met	LA31008.dat	1		
9		34	2	DS105A3107 DSL 3000/220/55PPM	DS105A31.met	LA31009.dat	1		
10		35	2	IDS105A3101 DSL 500/80/20PPM	DS105A31.met	LA31010.dat	1		DSL + SVCC ICV
11		36	2	DS105A3108 JP5/5W30 10/10PPM	DS105A31.met	LA31011.dat	1		JP5/5W30 ICAL
12		37	2	DS105A3109 JP5/5W30 50/50PPM	DS105A31.met	LA31012.dat	1		
13		38	2	DS105A3110 JP5/5W30 100/100PPM	DS105A31.met	LA31013.dat	1		
14		39	2	DS105A3111 JP5/5W30 500/500PPM	DS105A31.met	LA31014.dat	1		
15		40	2	DS105A3112 JP5/5W30 1500/1500PPM	DS105A31.met	LA31015.dat	1		
16		41	2	DS105A3113 JP5/5W30 3000/3000PPM	DS105A31.met	LA31016.dat	1		
17		42	2	DS105A3102 JP5/5W30 500/500PPM	DS105A31.met	LA31017.dat	1		JP5/5W30 ICV
18		43	2	DRO	DS105A31.met	LA31018.dat	1		
19		44	2	GRO	DS105A31.met	LA31019.dat	1	ANY	
20			2	IB	DS105A31.met	LA31020.dat	1		
21			2	IB	DS105A31.met	LA31021.dat	1		
22			2	IB	DS105A31.met	LA31022.dat	1		
23			2	IB	DS105A31.met	LA31023.dat	1		
24			2	IB	DS105A31.met	LA31024.dat	1		
25			2	IB	DS105A31.met	LA31025.dat	1		
26			2	IB	DS105A31.met	LA31026.dat	1		
27			2	IB	DS105A31.met	LA31027.dat	1		
28			2	IB	DS105A31.met	LA31028.dat	1		
29			2	IB	DS105A31.met	LA31029.dat	1		FINAL
30			2	IB	DS105A31.met	LA31030.dat	1		
31			2	IB	DS105A31.met	LA31031.dat	1		
32			2	IB	DS105A31.met	LA31032.dat	1		
33			2	IB	DS105A31.met	LA31033.dat	1		
34			2	IB	DS105A31.met	LA31034.dat	1		
35			2	IB	DS105A31.met	LA31035.dat	1		
36			2	IB	DS105A31.met	LA31036.dat	1		
37			2	IB	DS105A31.met	LA31037.dat	1		
38			2	IB	DS105A31.met	LA31038.dat	1		

BMC 2/2/11

For Help, press F1

Wednesday, February 02, 2011

Start | EZChrom Elite | GCT-105 Metho... | GCT-105 (Offline... | Untitled - Paint | Calculator | D:\Projects\EZC3... | 11:20

5053

EMAX LABORATORIES, INC.

ANALYSIS RUN LOG
for
TPH

Note: For samples and relevant QCs/Standards analyzed, refer to attached analytical sequence.

Comments:

DSB 0295: B186
B198
B217

Book #:	A105-014
Instrument No.:	105
Analytical Sequence:	LB22
Method File:	DS105A31
Analytical Batch:	DS105A31109

SOP #	Rev. #
☑ EMAX-8015	4
☐ EMAX-LUFT	3
☐ EMAX-AK102/AK103	3
☐ EMAX-	

STANDARDS ID		Conc (mg/L)
ICAL		
☐ Diesel ☐ Alcohol		
☐ Motor Oil ☐ JP5		
CH_2Cl_2	50204	Pure
DSL DCC	553B-13-12-02	500/500/20
LCS		
JP5/5W30 DCC	553B-13-12-03	500/500
Alaska DCC		
Arizona DCC		

ELECTRONIC DATA ARCHIVAL	
Location	Date
☐ EZCELITE-11	
☐	

Analyzed By: KAL

Date: 2/22/11

GCT-105 (Offline) Method: DS105A31.met Data: LB22022.dat Project: EZC331 - [Sequence: LB22.seq]

File Edit View Method Data Sequence Analysis Control Reports Window Help

1: FID

Run #	Status	Vial	Volume	Sample ID	Method	Filename	Dilution	Action	Description
1		100	2	IB	DS105A31.met	LB22001.dat	1		
2		99	2	IB105A31109	DS105A31.met	LB22002.dat	1		
3		1	2	CDS105A31109 DSL 500/80/20PPM	DS105A31.met	LB22003.dat	1		
4		2	2	CDS105A31110 JP5/5W30PPM	DS105A31.met	LB22004.dat	1		
5		3	2	DSB029SB	DS105A31.met	LB22005.dat	1		
6		4	2	DSB029SL	DS105A31.met	LB22006.dat	1		
7		5	2	DSB029SC	DS105A31.met	LB22007.dat	1		
8		6	2	11B186-12	DS105A31.met	LB22008.dat	1		
9		7	2	11B198-01	DS105A31.met	LB22009.dat	1		
10		8	2	11B198-02	DS105A31.met	LB22010.dat	1		
11		9	2	11B198-03	DS105A31.met	LB22011.dat	1		
12		10	2	11B198-04	DS105A31.met	LB22012.dat	1		
13		11	2	11B198-05	DS105A31.met	LB22013.dat	1		
14		12	2	11B198-06	DS105A31.met	LB22014.dat	1		
15		1	2	CDS105A31111 DSL 500/80/20PPM	DS105A31.met	LB22015.dat	1		
16		2	2	CDS105A31112 JP5/5W30PPM	DS105A31.met	LB22016.dat	1		
17		13	2	11B198-07	DS105A31.met	LB22017.dat	1		
18		14	2	11B198-07M	DS105A31.met	LB22018.dat	1		
19		15	2	11B198-07S	DS105A31.met	LB22019.dat	1		
20		16	2	11B217-01	DS105A31.met	LB22020.dat	1		Yellow
21		1	2	CDS105A31113 DSL 500/80/20PPM	DS105A31.met	LB22021.dat	1		
22		2	2	CDS105A31114 JP5/5W30PPM	DS105A31.met	LB22022.dat	1	ANY	
23			2	IB	DS105A31.met	LB22023.dat	1		
24			2	IB	DS105A31.met	LB22024.dat	1		
25			2	IB	DS105A31.met	LB22025.dat	1		
26			2	IB	DS105A31.met	LB22026.dat	1		
27			2	IB	DS105A31.met	LB22027.dat	1		
28			2	IB	DS105A31.met	LB22028.dat	1		
29			2	IB	DS105A31.met	LB22029.dat	1		FINAL
30			2	IB	DS105A31.met	LB22030.dat	1		
31			2	IB	DS105A31.met	LB22031.dat	1		
32			2	IB	DS105A31.met	LB22032.dat	1		
33			2	IB	DS105A31.met	LB22033.dat	1		
34			2	IB	DS105A31.met	LB22034.dat	1		
35			2	IB	DS105A31.met	LB22035.dat	1		
36			2	IB	DS105A31.met	LB22036.dat	1		
37			2	IB	DS105A31.met	LB22037.dat	1		
38			2	IB	DS105A31.met	LB22038.dat	1		

3/1/11

For Help, press F1

Tuesday, March 01, 2011

Start | EZChrom Elite | GCT-105 - Method: DS... | GCT-105 (Offline) | C:\Projects\EZC331\Data | untitled - Paint | 10:06

STANDARD LOGS

EMAX LABORATORIES, INC.

STANDARDS LOG FOR EXTRACTABLE TPH

Book No.: SS3B-13

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3-009-03-29 ①	Diesel Fuel #2	50,000 ppm	Diesel 5µL / Surr 5µL	Diesel 5ppm / Surr 5ppm
SS3-009-03-22 ②	Bro/Hex Surrogates	2000 / 500 ppm		
			0.1 / ∅	5 / ∅
			0.2 / 10	10 / 20/5
			1.0 / 20	50 / 40/10
			2.0 / 30	100 / 60/15
			10 / 40	500 / 80/20
			30 / 50	1500 / 100/25
			60 / 110	3000 / 220/55
		km	1/31/11	

Standard ID	SS3B-13-08-01
Name	Diesel ICAL
Final Volume	1.0ml
Solvent/Lot #	MeCl2 / 50204
Prep. Date	1/31/11
Exp. Date	~~1/31/11~~ 2/28/11
Prepared By	KHL

Comments:
Restek: exp 10/2017
① CPI: exp 9/11/2013
② CPI: exp 8/18/2012

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3B-11-97.3 ①	JP5/SW30 ICAL STOCK	5000/5000 ppm	600 µl	3000 ppm
			300 µl	1500 ppm
			100 µl	500 ppm
			20 µl	100 ppm
			10 µl	50 ppm
			2 µl	10 ppm
		km 1/31/11		

Standard ID	SS3B-13-08-02
Name	JP5/SW30 ICAL
Final Volume	1.0ml
Solvent/Lot #	MeCl2/50204
Prep. Date	1/31/11
Exp. Date	2/28/11
Prepared By	KHL

Comments:
① exp 1/5/12

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3-009-01-20 ①	JP-5	20,000 ppm	25 µl	500 ppm
SS3-009-03-13 ②	SW30	50,000 ppm	10 µl	500 ppm
		km 1/31/11		

Standard ID	SS3B-13-08-03
Name	JP5/SW30 ICV
Final Volume	1.0ml
Solvent/Lot #	MeCl2/50204
Prep. Date	1/31/11
Exp. Date	7/31/11
Prepared By	KHL

Comments:
① Accustandard: exp 3/17/2015
② Restek: exp 7/26/13

EMAX LABORATORIES, INC.

STANDARDS LOG FOR EXTRACTABLE TPH

Book No.: SS3B-13

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3B-13-6-3 ①	Fuel #6 ICV	500 ppm	5 ml	250 ppm
		km 1/28/11		

Standard ID	SS3B-13-07-01
Name	Fuel #6 Spike
Final Volume	10 ml
Solvent/Lot #	1:1 Acetone/MeCl2 / 50043
Prep. Date	1/28/11
Exp. Date	7/27/11
Prepared By	km

Comments:

① exp 7/27/11

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3-009-03-24 ①	Diesel Fuel #2	50000 ppm	10 µl	500 ppm
SS3-009-02-24 ②	10W30	20,000 ppm	25 µl	500 ppm
SS3-009-03-16 ③	O-Ter Phenyl ~~Bromo/Hex Surr~~ km 1/28/11	2000 ppm km 1/28/11	125 µl	25 ppm
SS3-009-03-11 ④	N-Triacontane	10,000 ppm	100 µl	100 ppm
		km 1/28/11		

Standard ID	SS3B-13-07-02
Name	AZ DCC
Final Volume	1.0 ml
Solvent/Lot #	MeCl2/50204
Prep. Date	1/28/11
Exp. Date	7/28/11
Prepared By	

Comments: ① Restek exp 1/2017

② Acustd. exp 4/22/2019

③ Acustd exp 7/10/2016

④ Acustd exp 6/28/2014

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3-009-03-24 ①	Diesel Fuel #2	50000 ppm	10 µl	500 ppm
SS3-009-03-22 ②	Bro/Hex Surr.	2000/500 ppm	40 µl	80/20 ppm
		km 1/31/11		

Standard ID	SS3B-13-07-03
Name	Diesel ~~ICAL~~ ICV km 1/31/11
Final Volume	1.0 ml
Solvent/Lot #	MeCl2/50204
Prep. Date	1/31/11
Exp. Date	7/31/11
Prepared By	KHL

Comments:

CPI exp 9/11/2013

CPI exp 8/~~3/2013~~

EMAX LABORATORIES, INC.

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3B-11

Parent ID	Parent Standard Name	ppm Conc.	Aliquot	ppm Final Conc.
SS3-008-03-24 ①	ØS4 #2 C PI	50,000	10 ml	500
SS3-008-03-22 ②	Bromo/Hexac. Sol	2000/500	40 ml	80/20
				M.N. 12/28/10

Standard ID	SS3B-11-97-1
Name	ØS4 ICV
Final Volume	1.0 mL
Solvent /Lot #	MeCl2/50204
Prep. Date	12/28/10
Exp. Date	06/28/11
Prepared By	M.N.

Comments

① exp. 9/11/2013
② exp. 8/18/12

Parent ID	Parent Standard Name	ppm Conc.	ml Aliquot	ppm Final Conc.
SS3-008-01-28 ①	JP5 Mil. Fuel	20,000	25	500
SS3-008-03-13 ②	5W30 M.Oil.	50,000	10	500
				M.N. 12/28/10

Standard ID	SS3B-11-97-2
Name	JP5/5W30 ICV
Final Volume	1.0 mL
Solvent /Lot #	MeCl2/50204
Prep. Date	12/28/10
Exp. Date	06/28/11
Prepared By	M.N.

Comments

① exp 03/17/2015
② exp 07/2013

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3-008-03-27 ①	JP-5 Military Fuel	10,000 ppm	5.0 ml	5000 ppm
SS3-008-4-2 ②	5W30 Motor Oil	50,000 ppm	1.0 ml	5000 ppm
				mm 1/10/11

Standard ID	SS3B-11-97-3
Name	JP5/5W30 ICAL STOCK
Final Volume	10 ml
Solvent /Lot #	MeCl2/50204
Prep. Date	1/5/11
Exp. Date	1/5/12
Prepared By	KHL

Comments

① Supelco: exp 10/2012
② Restek exp 11/2013
Lot # A077940

EMAX LABORATORIES, INC.

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3B-11

Parent ID	Parent Standard Name	ppm Conc.	ml Aliquot	ppm Final Conc.
SS3-008-03-27 ①	JP5 Mil. Fuel	10,000	500	500
SS3-008-03-2 ②	5W30 Mot. Oil	50,000	100	500
			M.N. 12/21/10	

Standard ID	SS3B-11-95-1
Name	JP5/5W30 DLC
Final Volume	10.0 mls
Solvent /Lot #	MeCl2/50204
Prep. Date	12/21/10
Exp. Date	06/21/11
Prepared By	M.N./KHL

Comments

① exp. 10/2012

② exp. 07/2013

Parent ID	Parent Standard Name	ppm Conc.	ml Aliquot	ppm Final Conc.
SS3-008-01-13 ①	DRO (C8-C40)	1000	200	20
SS3-008-03-02 ②	DRO (C8-C33)	500	400	20
			M.N. 12/29/10	

Standard ID	SS3B-11-95-2
Name	DRO (C8-C40)
Final Volume	10.0 mls
Solvent /Lot #	MeCl2/50204
Prep. Date	12/29/10
Exp. Date	06/29/11
Prepared By	M.N./KHL

Comments

① Accu St. exp. 9/14/17

② Accu St. exp. 5/13/19

Parent ID	Parent Standard Name	ppm Conc.	Aliquot	Final Conc.
SS3-008-03-28	Diesel Fuel #2	50,000	150 mls	5000
			M.N. 12/28/10	

Standard ID	SS3B-11-95-3
Name	DS4 Stock
Final Volume	1.5 mls
Solvent /Lot #	50204/MeCl2
Prep. Date	12/28/10
Exp. Date	01/28/11
Prepared By	M.N./KHL

Comments

exp. 10/2017

EMAX LABORATORIES, INC.

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3B-11

Parent ID	Parent Standard Name	Conc.	Aliquot	Final Conc.
SS3A-07-93	GRO STD	2000ppm	100 µl	20ppm

Standard ID	SS3B-11-82-1
Name	GRO
Final Volume	10 ml
Solvent /Lot #	MeCl2 / 50204
Prep. Date	11/22/10
Exp. Date	5/22/11
Prepared By	KM

Comments

① Amstd. exp 12/29/2014

Parent ID	Parent Standard Name	ppm Conc.	Aliquot	Final Conc.
SS3-003-02-26 ①	Diesel Fuel #2	50,000	diesel / surrogate	diesel / surrogate
SS3-003-03-22 ②	Bromo/Hexacos. Stock	2000/500	ml / ml	ppm / ppm
			0.1 / 0	5 / 0
			0.2 / 10	10 / 20/5
			1.0 / 20	50 / 40/10
			2.0 / 30	100 / 60/15
			10 / 40	500 / 80/20
			30 / 50	1500 / 100/25
			60 / 110	3000 / 220/55
			M.N.	11/23/10

Standard ID	SS3B-11-82-2
Name	Diesel ICAL
Final Volume	1.0 mls
Solvent /Lot #	50204 / MeCl2
Prep. Date	11/23/10
Exp. Date	12/23/10
Prepared By	M.N.

Comments

① exp: 01/2017
② exp: 8/8/2012 M.N.

Parent ID	Parent Standard Name	ppm Conc.	ml Aliquot	ppm Final Conc.
SS3-003-03-24 ①	Diesel SPIKE	50,000	10	500
SS3-003-03-22 ②	Bromo/Hexacos Stock	2000/500	40	8/20
				M.N.
				11/23/10

Standard ID	SS3B-11-82-3
Name	Diesel ICV
Final Volume	1.0 mls
Solvent /Lot #	MeCl2 / 50204
Prep. Date	11/23/10
Exp. Date	5/23/10
Prepared By	M.N.

Comments

① exp. 8/11/2013
② exp. 8/18/2012

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3 -009

Standard ID	Name	Source	Lot #	Location	Rcvd. on	Rcvd. by	Exp. on	Comments
SS3-009-01-01	JPS Military Fuel	SUPELCO ~~AccuStandard~~ cc 4/6/09	47586-U / LB55365	SA03	4/6/09	CC	01/2011	10x1mL / 10mg/mL
SS3-009-01-02	O-Terphenyl (in Acetone)	Restek	31066 / A064837	SA03	4/6/09	CC	01/2016	5x1mL / 2000ppm
SS3-009-01-03	Hexacosane	Aldrich	244669-5G / 05921HV	SA03	4/24/09	CC	5/22/2019	5 grams / —
SS3-009-01-04	TRPH Std (Florida)	UltraScientific	SFL-601 / CE-2042	SA03	5/6/09	CC	7/2011	2x1mL / 500 ppm
SS3-009-01-05	DRH-FTRPH2 Hydrocarbon Window Defining Std	AccuStandard	DRH-FTRPH2 / B808100	SA03	5/5/09	CC	8/11/2018	2x1mL / 500 mg/mL
SS3-009-01-06	Hydrocarbon Window Defining STD	AccuStandard	DRH-FTRPH2 / 209051108	SA03	5/5/09	CC	5/3/2019	2x1mL / 500 mg/mL
SS3-009-01-07	n-Triacontane -d62	AccuStandard	RRD-AK-103-SS2 / B810080	SA03	8/13/09	CC	10/7/2018	1x1mL / 5.0 mg/mL
SS3-009-01-08	O-Terphenyl (in Acetone)	AccuStandard	DRD-AK-102-SS-PAK / B609005D	SA03	8/25/09	CC	7/10/2016	3x1mL / 2002 mg/mL
SS3-009-01-09	n-Triacontane	AccuStandard	RRD-AK-103-SS2 / B709016 7	SA03	8/25/09	CC	9/21/2017	3x1mL / 5016 mg/mL
SS3-009-01-10	TRPH Std (Florida)	UltraScientific	SFL-601 / CE-2042	SA03	8/26/09	CC	7/2011	5x1mL / 500 mg/mL
SS3-009-01-11	Hydrocarbon Window Defining Std	AccuStandard	DRH-FTRPH2 / B808100	SA03	8/26/09	CC	8/11/2018	5x1mL / 500 mg/mL
SS3-009-01-12	Hydrocarbon Window Defining Std	AccuStandard	DRH-FTRPH2 / 209051108	SA03	8/26/09	CC	5/13/2019	5x1mL / 500 mg/mL
SS3-009-01-13	Calibration/Window Defining Hydrocarbon	AccuStandard	DRM-004-RI-5X-PAK / B709008 8	SA03	8/26/09	CC	9/16/2017	5x1mL / 1.0 mg/mL
SS3-009-01-14	O-Terphenyl (in Acetone)	AccuStandard	DRD-AK-102-SS-10X-PAK / B609005D	SA03	8/27/09	CC	7/10/2016	10x1mL / 2002 mg/mL
SS3-009-01-15	n-Triacontane	AccuStandard	RRD-AK-103-SS2-PAK / B709016 7	SA03	8/27/09	CC	9/21/2017	10x1mL / 5016 mg/mL
SS3-009-01-16	n-Triacontane	AccuStandard	RRD-AK-103-SS2 / B709016 7	SA03	8/27/09	CC	9/21/2017	1x1mL / 5 mg/mL CC 8/27/09
SS3-009-01-17	O-Terphenyl (in Acetone)	Restek	31066 / A064837	SA03	9/9/09	CC	01/2016	5x1mL / 2000ppm
SS3-009-01-18	Residual Calibration Verification (CVS)	Restek	31618 / A027890	SA03	9/9/09	CC	05/2011	10x1mL / 25000 ppm
SS3-009-01-19	Diesel Fuel	AccuStandard	FU-009N / 5596	SA03	10/6/09	CC	11/2/2016	5x1g / neat
SS3-009-01-20	JP-5 Fuel	AccuStandard	FU-012-40X / B503016 6	SA03	10/6/09	CC	3/7/2015	5x1mL / 20 mg/mL
SS3-009-01-21	#6 Fuel Oil	AccuStandard	FU-008-D-40X / 209051029	SA03	10/6/09	CC	5/5/2019	2x1mL / 20 mg/mL
SS3-009-01-22	Fuel Oil #6 Std	Restek	31249 / A068299	SA03	10/9/09	CC	09/2016	2x5mL / 50000 mg/mL
SS3-009-01-23	JPS Military Fuel	SUPELCO	47586-U / LB55365	SA03	10/27/09	CC	01/2011	1x1mL / 10 mg/mL
SS3-009-01-24	JPS Military Fuel	SUPELCO	47586-U / LB70710	SA03	10/27/09	CC	10/2012	3-1mL / 10 mg/mL
SS3-009-01-25	Fuel Oil #6	AccuStandard	FU-008-D-40X / 209051029	SA03	10/27/09	CC	5/5/2019	2x1mL / 20 mg/mL
SS3-009-01-26	Fuel Oil #6	Restek	31249 / A068259	SA03	10/27/09	CC	09/2016	3x5mL / 50000 mg/mL
SS3-009-01-27	Glycols Standard ✓	Restek	30671 / A057821	SA02	11/9/09	CC	01/2011	1x1mL / 50000 mg/mL
SS3-009-01-28	TRPH Std (Florida)	UltraScientific	SFL-601 / CE-2042	SA03	11/10/09	CC	07/2011	5x1mL / 500 mg/mL
SS3-009-01-29	Hydrocarbon Window Defining Std	AccuStandard	DRH-FTRPH2-PAK / B808100	SA03	11/10/09	CC	8/11/2018	5x1mL / 500 mg/mL
SS3-009-01-30	Hydrocarbon Window Defining Std	AccuStandard	DRH-FTRPH2-PAK / 209051108	SA03	11/10/09	CC	5/13/2019	5x1mL / 500 mg/mL

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3 -009

Standard ID	Name	Source	Lot #	Location	Rcvd. on	Rcvd. by	Exp. on	Comments
SS3-009-03-01	JP5/Military Fuel Std	Supelco	47586-U / LB70710	SA03	5/28/10	RMG	10/2012	10 x 1mL / 10 mg/mL
SS3-009-03-02	Hydrocarbon Window Defining Standard	Accustandard	209051108	SA03	6/3/10	RMG	5/13/2019	10 x 1mL / 500 ug/mL
SS3-009-03-03	n-Triacontane-d62	Accustandard	210061060	SA03	6/8/10	RMG	6/4/2014	5 x 1mL / 10 mg/mL
SS3-009-03-04	MA EPH Surrogate Spike Mix	Restek	A074231	SA03	6/8/10	RMG	5/2017	1 x 1mL / 4000 ug/mL
SS3-009-03-05	MA Fractionation Check Mix	Restek	A058553	SA03	6/8/10	RMG	3/2015	1 x 1mL / 25 mg/mL
SS3-009-03-06	MA Fractionation Check Mix	Restek	A074675	SA03	6/8/10	RMG	6/2017	1 x 1mL / 4000 mg/mL
SS3-009-03-07	Residual Range (RCS) Calibration STD RRC	Restek	31817 / A070021	SA03	6/23/10	RMG	10/2016	5 x 1mL / 50000 mg/mL
SS3-009-03-08	Residual Calibration Verification STD (CVS)	Restek	31817 / A027390	SA03	6/23/10	RMG	6/2011	5 x 1mL / 12.25000 mg/mL
SS3-009-03-09	MA Fractionation Check Mix	Restek	A074950	SA03	6/28/10	KHL	06/2017	4 x 1mL / 4000 mg/mL
SS3-009-03-10	MA Fractionation Check Mix	Restek	A058553	SA03	6/28/10	KHL	03/2015	1 x 1mL / 4000 mg/mL
SS3-009-03-11	n-Triacontane-d62	Accustandard	210061332	SA03	7/2/10	RMG	6/28/2014	30 x 1mL / 1000 mg/mL
SS3-009-03-12	Custom SW30 M.O. STD	Restek	56192 / A075516	SA03	7/13/10	RMG	7/2013	5 x 1mL / 50,000 mg/mL
SS3-009-03-13	Custom SW30 M.O. STD	Restek	56192 / A075534	SA03	7/13/10	RMG	7/2013	5 x 1mL / 50,000 mg/mL
SS3-009-03-14	n-Triacontane-d62	Accustandard	210071092	SA03	7/14/10	KHL	7/9/2020	10 x 5mL / 10 mg/mL
SS3-009-03-15	O-Terphenyl	Accustandard	210071078	SA03	7/14/10	KHL	7/9/2020	10 x 5mL / 2000 mg/mL
SS3-009-03-16	O-Terphenyl	Accustandard	B6070050	SA03	7/14/10	KHL	7/10/2016	80 x 1mL / 2000 mg/mL
SS3-009-03-17	1,2 Propanediol	Alfa Aesar	PB0027471PG	SA02	7/20/10	SD	7/20/2020	Neat 500 mL
SS3-009-03-18	Residual Calibration Verification STD (CVS)	Restek	31818 / A027390	SA03	7/28/10	RMG	6/2011	12 x 1mL / 25,000 mg/mL
SS3-009-03-19	Residual Calibration Verification STD (CVS)	Restek	31818 / A075886	SA03	8/6/10	RMG	8/2017	18 x 1mL / 25000 mg/mL
SS3-009-03-20	N-Triacontane	Cambridge Isotope	P-8970	SA03	8/16/10	KHL	8/2020	97% Purity 500 milligrams
SS3-009-03-21	#2 Diesel Fuel	Accustandard	DRO-AK-102-LCS-10X-RS / 20A121169	SA03	8/17/10	KHL	12/10/2019	50 mg/mL / 10 x 1mL
SS3-009-03-22	Hexacosane/Bromobenzene	CPI International	Z-116720-05-1 / LOT# 163151	SA03	8/25/10	KHL	8/18/2012	4 x 250mL / 500 12000 mg/L
SS3-009-03-23	JP-5 Military Fuel	Supelco	47586-U / LOT# LB76710	SA03	8/31/10	KHL	10/2012	10 x 1mL / 10 mg/mL
SS3-009-03-24	#2 Diesel Fuel	CPI International	Z-010438-06-100 / LOT# 163638	SA03	9/9/10	KHL	9/11/2013	4 x 25mL / 50,000 mg/L
SS3-009-03-25	n-Triacontane-d62	Accustandard	D-20726-R1-10X-SM / LOT 210071092	SA03	9/20/10	KHL	7/9/2014	3 x 5mL / 10,000 ppm
SS3-009-03-26	JP5-Military Fuel	Accustandard	FU-012-40X / LOT# B5030166	SA03	9/24/10	KHL	3/17/2015	10 x 1mL / 20,000 ppm
SS3-009-03-27	JP5-Military Fuel	Supelco	47586-U / LOT# LB70710	SA03	9/27/10	KHL	10/2012	10 x 1mL / 10 mg/mL
SS3-009-03-28	O-Terphenyl	Accustandard	DRO-AK102-SS-10X-SM / LOT # 210091089	SA03	9/29/10	KHL	9/13/2020	20 x 5mL / 2000 mg/mL
SS3-009-03-29	Diesel Fuel #2	Restek	31259 / A076841	SA03	11/08/10	KHL	10/2017	5 x 5mL / 50,000 ppm
SS3-009-03-30	JP-8 Standard	RESTEK	31254 / A055454	SA03	11/10/10	MAP/DX	10/2014	10 x 5mL / 50,000 ppm

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3 -009

Standard ID	Name	Source	Lot #	Location	Rcvd. on	Rcvd. by	Exp. on	Comments
SS3-009-04-01	JP-8 Fuel	AccuStandard	B3030233	SA03	11/12/10	M.N.	03/24/13	10 x 1mL 20000 ppm
SS3-009-04-02	Custom 5W30 Motor Oil Standard	Restek	A077940	SA03	11/17/10	KHL	11/2013	5 x 1mL 50,000 µg/mL
SS3-009-04-03	Custom 5W30 Motor Oil Standard	Restek	A077962	SA03	11/17/10	KHL	11/2013	5 x 1mL 50,000 µg/mL
SS3-009-04-04	CUSTOM 10W30 Motor Oil	Restek	552576 A078112	SA03	12/01/10	M.N.	11/2013	10 x 1mL 50,000 µg/mL
SS3-009- -05								
SS3-009- -06								
SS3-009- -07								
SS3-009- -08								
SS3-009- -09								
SS3-009- -10								
SS3-009- -11								
SS3-009- -12								
SS3-009- -13								
SS3-009- -14								
SS3-009- -15								
SS3-009- -16								
SS3-009- -17								
SS3-009- -18								
SS3-009- -19								
SS3-009- -20								
SS3-009- -21								
SS3-009- -22								
SS3-009- -23								
SS3-009- -24								
SS3-009- -25								
SS3-009- -26								
SS3-009- -27								
SS3-009- -28								
SS3-009- -29								
SS3-009- -30								

STANDARDS LOG FOR EXTRACTABLE TPH

Book # SS3A-07

Standard ID	Name	Source	Cst # / Lot #	Location	Rcvd. on	Rcvd. by	Exp. on	Comments
SS3A-07-91	JP5 Fuel	AccuStandard	FU-012-40X / B5030166	SA03	8/28/08	CC	3/19/2015	5x1mL / neat
SS3A-07-92	Diesel Fuel #2	AccuStandard	FU-009N / 5596	SA03	9/4/08	CC	11/2/2016	5x1gram / neat
SS3A-07-93	Normal Alkane Std - GRO Defining Mix	AccuStandard	AK-101-D-NAS10X / B412025	SA03	9/4/08	CC	12/29/2014	3x1mL / 20mg/mL
SS3A-07-94	Hydraulic Fluid	AccuStandard	FU-020-D-40X / B4010223	SA03	9/9/08	CC	1/22/2014	5x1mL / 20.00 mg/mL
SS3A-07-95	ISOPROPYL ALC.	EMD	47114721	SA03	10/30/08	IL	10/30/18	100mL / 1000mL
SS3A-07-96	SAE 10W30 Motor Oil	AccuStandard	FU-026-D-40X / B607005X	SA03	11/3/08	CC	11/10/2016	3x1mL / 20.0 mg/mL
SS3A-07-97	10W30 Motor Oil	Restek	552576 / A063918	SA03	11/5/08	CC	10/2011	3x1mL / 50000 mg/mL
SS3A-07-98	Diesel Fuel #2	Restek	31259 / A061608	SA03	11/10/08	CC	08/2015	3x5mL / 50000 mg/mL
SS3A-07-99	JP5 Military Fuel	SUPELCO	47586-U / LB55365	SA03	12/23/08	CC	01/2011	10x1mL / 10mg/mL
SS3A-07-100	5W30 Motor Oil	Restek	56192 / A064832	SA03	12/29/08	CC	12/2011	10x1mL / 50,000ppm
SS3A-07-101	Diesel Fuel #2	AccuStandard	FU-009N / 5596	SA03	2/11/09	CC	11/2/2016	5x1gram / neat
SS3A-07-102	JP-5 Fuel	AccuStandard	FU-012-40X / B5030166	SA03	2/11/09	CC	3/19/2015	5x1mL / 20mg/mL
SS3A-07-103	Diesel Fuel #2	Restek	31259 / A064481	SA03	2/11/09	CC	01/2016	3x5mL / 50000 mg/mL
SS3A-07-104	RCS (Residual Range Calibration Std)	Restek	31817 / A057607	SA03	2/19/09	CC	01/2015	3x1mL / 50,000ppm
SS3A-07-105	CVS (Residual Calibration Verification Std)	Restek	31818 / A029390	SA03	2/19/09	CC	05/2011	5x1mL / 12,500ppm
SS3A-07-6								
SS3A-07-7								
SS3A-07-8								
SS3A-07-9								
SS3A-07-0								
SS3A-07-1								
SS3A-07-2								
SS3A-07-3								
SS3A-07-4								
SS3A-07-5								
SS3A-07-6								
SS3A-07-7								
SS3A-07-8								
SS3A-07-9								
SS3A-07-0								

Verified New Lot. 02/20/09.

DATA VALIDATION REPORT

Site:	OPHA Moffett
Contract Task Order (CTO) No.:	004
Laboratory:	EMAX Laboratories, Inc.
Data Reviewer:	Richard Amano, Erlinda Rauto, Stella Cuenco, and Pei Geng.
Firm/Proj. No:	Laboratory Data Consultants, Inc./25122A
Review Date:	March 22, 2011
Sample Delivery Group (SDG) No.:	11B186

Sample Nos.:					
	SSI-HP-001	SSI-HP-004	SSI-HP-006	SSI-D-002	SSI-HP-004A
	SSI-TB-001	SSI-HP-005*	SSI-HP-007	SSI-HP-009	SSI-HP-004MS
	SSI-HP-002	SSI-HP-005DL*	SSI-HP-008	SSI-SS-001	SSI-HP-004MSD
	SSI-HP-003				

* Full Validation Sample

Matrix:	Water
Collection Date(s):	February 14 through February 16, 2011

The data were qualified according to the U.S. Environmental Protection Agency (EPA) documents "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review" (June 2008). In addition, the Tetra Tech EMI, Inc. documents "Data Validation Statement of Work" (April 1, 2010) and "Laboratory Analytical Statement of Work" (September 2006) were used along with other specified criteria in EPA methods. Data validation requirements are presented below.

I certify that all data validation criteria outlined in the above referenced documents were assessed, and any qualifications made to the data were in accordance with those documents.

Stella Cuenco for

Certified by Richard Amano
Principal Chemist

DATA VALIDATION REQUIREMENTS

Full validation includes all parameters listed below. Cursory validation parameters are indicated by an asterisk (*).

CLP Organic Parameters

*	Holding times
	GC/MS instrument performance check
*	Initial and continuing calibrations
*	Blanks
*	Surrogate recovery
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Internal standard performance
	Target compound identification
	Tentatively identified compounds
	Compound quantitation
	Reported detection limits
	System performance
*	Overall assessment of data for the SDG

CLP Inorganic Parameters

*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
	ICP interference check sample
	GFAA quality control
*	ICP serial dilution
	Sample result verification
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

Non-CLP Organic and Inorganic Parameters

*	Method compliance
*	Holding times
*	Initial and continuing calibrations
*	Blanks
*	Matrix spike/matrix spike duplicate
*	Laboratory control sample or blank spike
*	Field duplicates
*	Matrix duplicates
*	Surrogate recovery
	Analyte quantitation
	Reported detection limits
*	Overall assessment of data for the SDG

DATA VALIDATION QUALIFIERS AND CODES

Data Validation Qualifiers

UJ Estimated nondetected result

J Estimated detected result

R Rejected result

NJ Tentatively Identified Compound (TIC)

Data Validation Qualifier Codes

a Surrogate recovery exceedance

b Laboratory method blank and common blank contamination

c Calibration exceedance

d Duplicate precision exceedance

e Matrix spike/laboratory control sample (LCS) recovery exceedance

f Field blank contamination

g Quantification below reporting limit

h Holding time exceedance

i Internal standard exceedance

j Other qualifications

TABLE 1
CURSORY DATA VALIDATION SUMMARY

Analysis	Holding Times	Surrogates	MS/MSD	Matrix Duplicates	LCS	Blanks	Calibrations	Internal Standards	Field Duplicates	Other
VOA	√	√	√	N/A	√	pg. 6	√	√	pg. 7	pg. 7
TPHG	√	√	pg. 9	N/A	√	√	√	N/A	N/A	√
TPHE	√	√	pg. 10	N/A	√	√	√	N/A	N/A	√

Notes:
√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.
N/A indicates the parameter is not applicable to an analysis.
If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.
The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers are described in the text.

TABLE 2
FULL DATA VALIDATION SUMMARY
Sample(s) SSI-HP-005* and SSI-HP-005DL*

Analysis	GC/MS Tuning	Target Compound List Identification	Compound or Analyte Quantification	Reported Detection Limits	Tentatively Identified Compounds	System Performance	Interference Check Sample	Graphite Furnace Quality Control
VOA	√	√	pg. 7	√	N/A	√	N/A	N/A
TPHG	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TPHE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes:
√ indicates that all quality control criteria were met for the parameter as specified in the prescribed methods and data validation guidelines.
N/A indicates the parameter is not applicable to an analysis.
If criteria were not met and the data were qualified, a page number is indicated where the qualification is detailed.
The data were evaluated for all validation criteria and were found to be in control except where noted. Any outliers found are described below.

DATA ASSESSMENT

VOLATILE ORGANIC ANALYSIS (EPA SW 846 Method 8260B)

I. Holding Times

A. All criteria were met.

II. Surrogate Recovery

A. All criteria were met.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. All criteria were met.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. All criteria were met.

V. Blank Contamination

A. Due to common laboratory contamination, the following results are considered nondetected (UJb).

- 2-Butanone in samples SSI-HP-008 SSI-D-002

Acetone, Methylene chloride, and 2-Butanone are considered common laboratory contaminants when found at levels less than 5x the RL in environmental samples and not found in the associated blanks.

B. Due to trip blank contamination, the following results are considered nondetected (UJf).

• Toluene in samples	SSI-HP-001	SSI-HP-004	SSI-HP-007	SSI-HP-009
	SSI-HP-002	SSI-HP-005*	SSI-HP-008	SSI-HP-004A
	SSI-HP-003	SSI-HP-006	SSI-D-002	

The following compound was detected in the associated trip blank at the concentration noted below.

Blank ID	Compound	Concentration, µg/L
SSI-TB-001	Toluene	0.82

Detected results less than 5x the maximum blank contamination were qualified.

VI. Calibrations

A. All criteria were met.

VII. Internal Standards

A. All criteria were met.

VIII. Field Duplicate

A. The following RPDs were obtained for the field duplicate samples SSI-HP-008 / SSI-D-002:

- 200% for Ethylbenzene
- 200% for m/p-Xylenes
- 40% for Toluene

For water samples, the field RPD guideline is ± 25%. The data are not qualified on the basis of field duplicate results.

IX. Other Qualifications

A. The following results are qualified as estimated (Jg).

- All VOA detected results reported below the RL.

Detected results reported below the RL are considered to be qualitatively acceptable, but quantitatively unreliable due to the uncertainty in analytical precision near the limit of detection.

B. The following detected results are qualified as estimated (Jj).

- Trichloroethene in sample SSI-HP-005*

The above listed sample results exceeded the calibration range.

Full Validation Criteria for Samples SSI-HP-005* and SSI-HP-005DL*

X. GC/MS Instrument Performance Checks

A. The ion abundance criteria were met for the bromofluorobenzene (BFB) GC/MS instrument performance check. The samples were analyzed within 12 hours of the associated instrument performance check.

XI. Target Compound List (TCL) Identification

A. The relative retention times, mass spectra, and peak identifications of the samples were evaluated. Target compound identification was considered to be correct.

XII. Compound Quantitation and Reported Detection Limits

A. Sample results were recalculated with the proper dilution factors, weights, volumes, and percent moisture used to calculate the sample results. The samples were found to be correctly quantitated. The reported detection limits were consistent with Tetra Tech EMI's required report limits and reflect any dilutions, weights, volumes, and percent moisture.

XIII. Tentatively Identified Compounds (TICs)

A. The TIC library searches were not performed for this SDG.

XIV. System Performance

A. The samples were evaluated for reconstructed ion chromatogram (RIC) baseline shifts, extraneous peaks, loss of resolution, and peak tailing. No system degradation was noted.

TPH GASOLINE (TPHG) ANALYSIS

I. Holding Times

A. All criteria were met.

II. Surrogate Recovery

A. All criteria were met.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for this SDG.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. All criteria were met.

V. Blank Contamination

A. All criteria were met.

VI. Calibrations

A. All criteria were met.

VII. Field Duplicate

A. No field duplicates were identified in this SDG.

VIII. Other Qualifications

A. No results were reported below the RL.

TPH EXTRACTABLE (TPHE) ANALYSIS

I. Holding Times

A. All criteria were met.

II. Surrogate Recovery

A. All criteria were met.

III. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

A. The MS/MSD analysis was not performed for this SDG.

IV. Blank Spike or Laboratory Control Sample (LCS)

A. All criteria were met.

V. Blank Contamination

A. All criteria were met.

VI. Calibrations

A. All criteria were met.

VII. Field Duplicate

A. No field duplicates were identified in this SDG.

VIII. Other Qualifications

A. No results were reported below the RL.

OVERALL ASSESSMENT OF DATA

I. Method Compliance and Additional Comments

A. All analyses were conducted within all specifications of the requested method with the exceptions listed below:

- For the TPHG and TPHE analysis, the MS/MSD analysis was not performed for this SDG.

II. Usability

Volatile Organic Analysis (8260B)

A. No results for volatile analysis were rejected in this SDG.

B. Due to common laboratory and field blank contamination and compound quantitation problems in the volatile analysis, several samples were qualified as estimated. The findings were as follows:

- Due to common laboratory contamination problems, 2-Butanone was qualified nondetect in two samples.
- Due to trip blank contamination problems, Toluene was qualified nondetect in eleven samples.
- All detected results reported below the RL were qualified as estimated.
- Due to compound quantitation problems, Trichloroethene detected results were qualified as estimated in one sample.

C. Sample SSI-HP-005* was diluted due to sample results exceeding the calibration range. For sample SSI-HP-005*, all volatile results except Trichloroethene should be considered the most usable. The Trichloroethene results for sample SSI-HP-005DL* should be considered the most usable.

TPH Gasoline Analysis

A. No results for TPH gasoline analysis were rejected in this SDG.

B. No samples were reextracted or reanalyzed for TPH gasoline analysis in this SDG.

TPH Extractable Analysis

A. No results for TPH extractable analysis were rejected in this SDG.

B. No samples were reextracted or reanalyzed for TPH extractable analysis in this SDG.

III. The quality control criteria reviewed, other than those discussed above, were met and are considered acceptable. Sample results that were found to be estimated (J) are usable for limited purposes only. Based upon the cursory and full data validation all other results are considered valid and usable for all purposes. In general, the absence of rejected data and the small number of qualifiers added to the data indicate high usability.

ATTACHMENT D-3
LABORATORY CERTIFICATIONS

State of California—Health and Human Services Agency
California Department of Public Health

MARK B HORTON, MD, MSPH
Director

ARNOLD SCHWARZENEGGER
Governor

August 30, 2010

TU NISAMANEEPONG, Ph.D
EMAX LABORATORIES, INC.
1835 WEST 205th STREET
TORRANCE, CA 90501

Dear TU NISAMANEEPONG, Ph.D: Certificate No. 02116CA

This is to advise you that the laboratory named above has been accredited under National Environmental Laboratory Accreditation Program (NELAP) as an environmental testing laboratory pursuant to the provisions of the Health and Safety Code (HSC), Division 101, Part 1, Chapter 4, Section 100825, et seq.

The Fields of Accreditation for which this laboratory has been accredited are enclosed. Accreditation shall remain in effect until **August 31, 2011** unless revoked by ELAP or withdrawn at your written request. To maintain accreditation, the laboratory shall comply with the National Environmental Laboratory Accreditation Conference (NELAC) Standards and all associated California Environmental Laboratory Accreditation Program Branch (ELAP) regulations and statutes.

The application for renewal of this certificate must be received before the expiration date of this certificate to remain in force according to the HSC 100845(a).

Please note that your laboratory is required to notify California ELAP of any major changes in key accreditation criteria within 30 calendar days of the change. This written notification includes, but is not limited to, changes in ownership, location, key personnel, and major instrumentation (HSC 100845(b) and (d), and NELAC Standard Section 4.3.2). The certificate must be returned to California ELAP upon loss of accredited status.

Your continued cooperation with the above requirements is essential for maintaining the high quality of the data produced by environmental laboratories accredited by the State of California.

If you have any questions, please contact Rosalinda Lomboy at (213) 580-5731.

Sincerely,

George C. Kulasingam, Ph.D., Chief
Environmental Laboratory Accreditation Program Branch

Enclosure

CALIFORNIA DEPARTMENT OF PUBLIC HEALTH

ENVIRONMENTAL LABORATORY ACCREDITATION PROGRAM - NELAP RECOGNIZED

NELAP Fields of Accreditation

EMAX LABORATORIES, INC.

1835 WEST 205th STREET
TORRANCE, CA 90501
Phone: (310) 618-8889

Certificate No.: 02116CA
Renew Date: 8/31/2011

102 - Inorganic Chemistry of Drinking Water

102.020	001	EPA 180.1	Turbidity
102.022	001	SM2130B	Turbidity
102.030	001	EPA 300.0	Bromide
102.030	003	EPA 300.0	Chloride
102.030	005	EPA 300.0	Fluoride
102.030	006	EPA 300.0	Nitrate
102.030	007	EPA 300.0	Nitrite
102.030	008	EPA 300.0	Phosphate, Ortho
102.030	010	EPA 300.0	Sulfate
102.045	001	EPA 314.0	Perchlorate
102.100	001	SM2320B	Alkalinity
102.120	001	SM2340B	Hardness
102.121	001	SM2340C	Hardness
102.130	001	SM2510B	Conductivity
102.140	001	SM2540C	Total Dissolved Solids
102.145	001	EPA 160.1	Total Dissolved Solids
102.150	001	SM4110B	Chloride
102.150	002	SM4110B	Fluoride
102.150	003	SM4110B	Nitrate
102.150	004	SM4110B	Nitrite
102.150	005	SM4110B	Phosphate, Ortho
102.150	006	SM4110B	Sulfate
102.200	001	SM4500-F C	Fluoride
102.210	001	SM4500-H+ B	pH
102.212	001	EPA 150.1	pH
102.520	001	EPA 200.7	Calcium
102.520	002	EPA 200.7	Magnesium
102.520	003	EPA 200.7	Potassium
102.520	005	EPA 200.7	Sodium

103 - Toxic Chemical Elements of Drinking Water

103.130	001	EPA 200.7	Aluminum
103.130	003	EPA 200.7	Barium
103.130	004	EPA 200.7	Beryllium

103.130	005	EPA 200.7	Cadmium
103.130	007	EPA 200.7	Chromium
103.130	008	EPA 200.7	Copper
103.130	009	EPA 200.7	Iron
103.130	011	EPA 200.7	Manganese
103.130	012	EPA 200.7	Nickel
103.130	015	EPA 200.7	Silver
103.130	017	EPA 200.7	Zinc
103.140	001	EPA 200.8	Aluminum
103.140	002	EPA 200.8	Antimony
103.140	003	EPA 200.8	Arsenic
103.140	004	EPA 200.8	Barium
103.140	005	EPA 200.8	Beryllium
103.140	006	EPA 200.8	Cadmium
103.140	007	EPA 200.8	Chromium
103.140	008	EPA 200.8	Copper
103.140	009	EPA 200.8	Lead
103.140	010	EPA 200.8	Manganese
103.140	012	EPA 200.8	Nickel
103.140	013	EPA 200.8	Selenium
103.140	014	EPA 200.8	Silver
103.140	015	EPA 200.8	Thallium
103.140	016	EPA 200.8	Zinc
103.160	001	EPA 245.1	Mercury

104 - Volatile Organic Chemistry of Drinking Water

104.030	001	EPA 504.1	1,2-Dibromoethane
104.030	002	EPA 504.1	1,2-Dibromo-3-chloropropane
104.040	000	EPA 524.2	Volatile Organic Compounds
104.040	001	EPA 524.2	Benzene
104.040	002	EPA 524.2	Bromobenzene
104.040	003	EPA 524.2	Bromochloromethane
104.040	006	EPA 524.2	Bromomethane
104.040	007	EPA 524.2	n-Butylbenzene
104.040	008	EPA 524.2	sec-Butylbenzene
104.040	009	EPA 524.2	tert-Butylbenzene
104.040	010	EPA 524.2	Carbon Tetrachloride
104.040	011	EPA 524.2	Chlorobenzene
104.040	012	EPA 524.2	Chloroethane
104.040	014	EPA 524.2	Chloromethane
104.040	015	EPA 524.2	2-Chlorotoluene
104.040	016	EPA 524.2	4-Chlorotoluene

104.040	018	EPA 524.2	Dibromomethane
104.040	019	EPA 524.2	1,3-Dichlorobenzene
104.040	020	EPA 524.2	1,2-Dichlorobenzene
104.040	021	EPA 524.2	1,4-Dichlorobenzene
104.040	022	EPA 524.2	Dichlorodifluoromethane
104.040	023	EPA 524.2	1,1-Dichloroethane
104.040	024	EPA 524.2	1,2-Dichloroethane
104.040	025	EPA 524.2	1,1-Dichloroethene
104.040	026	EPA 524.2	cis-1,2-Dichloroethene
104.040	027	EPA 524.2	trans-1,2-Dichloroethene
104.040	028	EPA 524.2	Dichloromethane
104.040	029	EPA 524.2	1,2-Dichloropropane
104.040	030	EPA 524.2	1,3-Dichloropropane
104.040	031	EPA 524.2	2,2-Dichloropropane
104.040	032	EPA 524.2	1,1-Dichloropropene
104.040	033	EPA 524.2	cis-1,3-Dichloropropene
104.040	034	EPA 524.2	trans-1,3-Dichloropropene
104.040	035	EPA 524.2	Ethylbenzene
104.040	036	EPA 524.2	Hexachlorobutadiene
104.040	037	EPA 524.2	Isopropylbenzene
104.040	038	EPA 524.2	4-Isopropyltoluene
104.040	039	EPA 524.2	Naphthalene
104.040	040	EPA 524.2	Nitrobenzene
104.040	041	EPA 524.2	N-propylbenzene
104.040	042	EPA 524.2	Styrene
104.040	043	EPA 524.2	1,1,1,2-Tetrachloroethane
104.040	044	EPA 524.2	1,1,2,2-Tetrachloroethane
104.040	045	EPA 524.2	Tetrachloroethene
104.040	046	EPA 524.2	Toluene
104.040	047	EPA 524.2	1,2,3-Trichlorobenzene
104.040	048	EPA 524.2	1,2,4-Trichlorobenzene
104.040	049	EPA 524.2	1,1,1-Trichloroethane
104.040	050	EPA 524.2	1,1,2-Trichloroethane
104.040	051	EPA 524.2	Trichloroethene
104.040	052	EPA 524.2	Trichlorofluoromethane
104.040	053	EPA 524.2	1,2,3-Trichloropropane
104.040	054	EPA 524.2	1,2,4-Trimethylbenzene
104.040	055	EPA 524.2	1,3,5-Trimethylbenzene
104.040	056	EPA 524.2	Vinyl Chloride
104.040	057	EPA 524.2	Xylenes, Total
104.040	059	EPA 524.2	Federal regulated VOCs, excluding vinyl chloride

104.040	060	EPA 524.2	Federal unregulated VOCs
104.045	001	EPA 524.2	Bromodichloromethane
104.045	002	EPA 524.2	Bromoform
104.045	003	EPA 524.2	Chloroform
104.045	004	EPA 524.2	Dibromochloromethane
104.045	005	EPA 524.2	Trihalomethanes
104.050	002	EPA 524.2	Methyl tert-butyl Ether (MTBE)
104.050	004	EPA 524.2	tert-Amyl Methyl Ether (TAME)
104.050	005	EPA 524.2	Ethyl tert-butyl Ether (ETBE)
104.050	006	EPA 524.2	Trichlorotrifluoroethane
104.050	011	EPA 524.2	Oxygenates

108 - Inorganic Chemistry of Wastewater

108.020	001	EPA 120.1	Conductivity
108.110	001	EPA 180.1	Turbidity
108.112	001	EPA 200.7	Boron
108.112	002	EPA 200.7	Calcium
108.112	003	EPA 200.7	Hardness (calc.)
108.112	004	EPA 200.7	Magnesium
108.112	005	EPA 200.7	Potassium
108.112	007	EPA 200.7	Sodium
108.120	001	EPA 300.0	Bromide
108.120	002	EPA 300.0	Chloride
108.120	003	EPA 300.0	Fluoride
108.120	004	EPA 300.0	Nitrate
108.120	005	EPA 300.0	Nitrite
108.120	006	EPA 300.0	Nitrate-nitrite, Total
108.120	007	EPA 300.0	Phosphate, Ortho
108.120	008	EPA 300.0	Sulfate
108.323	001	EPA 410.4	Chemical Oxygen Demand
108.360	001	EPA 420.1	Phenols, Total
108.385	001	SM2120B	Color
108.390	001	SM2130B	Turbidity
108.400	001	SM2310B	Acidity
108.410	001	SM2320B	Alkalinity
108.420	001	SM2340B	Hardness (calc.)
108.421	001	SM2340C	Hardness
108.430	001	SM2510B	Conductivity
108.440	001	SM2540B	Residue, Total
108.441	001	SM2540C	Residue, Filterable
108.442	001	SM2540D	Residue, Non-filterable
108.443	001	SM2540F	Residue, Settleable

108.472	001	SM4500-CN E	Cyanide, Total
108.473	001	SM4500-CN G	Cyanide, amenable
108.480	001	SM4500-F C	Fluoride
108.490	001	SM4500-H+ B	pH
108.491	001	SM4500-NH3 C (18th)	Ammonia
108.491	002	SM4500-NH3 C (18th)	Kjeldahl Nitrogen
108.520	001	SM4500-NO3 E	Nitrate-nitrite
108.520	002	SM4500-NO3 E	Nitrite
108.551	001	SM4500-SiO2 C (20th)	Silica
108.580	001	SM4500-S= D	Sulfide
108.590	001	SM5210B	Biochemical Oxygen Demand
108.602	001	SM5220D	Chemical Oxygen Demand
108.610	001	SM5310B	Total Organic Carbon
108.630	001	SM5520B (20th)	Oil and Grease
108.640	001	SM5540C	Surfactants

109 - Toxic Chemical Elements of Wastewater

109.010	001	EPA 200.7	Aluminum
109.010	002	EPA 200.7	Antimony
109.010	003	EPA 200.7	Arsenic
109.010	004	EPA 200.7	Barium
109.010	005	EPA 200.7	Beryllium
109.010	007	EPA 200.7	Cadmium
109.010	009	EPA 200.7	Chromium
109.010	010	EPA 200.7	Cobalt
109.010	011	EPA 200.7	Copper
109.010	012	EPA 200.7	Iron
109.010	013	EPA 200.7	Lead
109.010	015	EPA 200.7	Manganese
109.010	016	EPA 200.7	Molybdenum
109.010	017	EPA 200.7	Nickel
109.010	019	EPA 200.7	Selenium
109.010	021	EPA 200.7	Silver
109.010	023	EPA 200.7	Thallium
109.010	024	EPA 200.7	Tin
109.010	026	EPA 200.7	Vanadium
109.010	027	EPA 200.7	Zinc
109.020	001	EPA 200.8	Aluminum
109.020	002	EPA 200.8	Antimony
109.020	003	EPA 200.8	Arsenic
109.020	004	EPA 200.8	Barium
109.020	005	EPA 200.8	Beryllium

109.020	006	EPA 200.8	Cadmium
109.020	007	EPA 200.8	Chromium
109.020	008	EPA 200.8	Cobalt
109.020	009	EPA 200.8	Copper
109.020	010	EPA 200.8	Lead
109.020	011	EPA 200.8	Manganese
109.020	012	EPA 200.8	Molybdenum
109.020	013	EPA 200.8	Nickel
109.020	014	EPA 200.8	Selenium
109.020	015	EPA 200.8	Silver
109.020	016	EPA 200.8	Thallium
109.020	017	EPA 200.8	Vanadium
109.020	018	EPA 200.8	Zinc
109.104	001	EPA 218.6	Chromium (VI)
109.190	001	EPA 245.1	Mercury

110 - Volatile Organic Chemistry of Wastewater

110.040	001	EPA 624	Benzene
110.040	002	EPA 624	Bromodichloromethane
110.040	003	EPA 624	Bromoform
110.040	004	EPA 624	Bromomethane
110.040	005	EPA 624	Carbon Tetrachloride
110.040	006	EPA 624	Chlorobenzene
110.040	007	EPA 624	Chloroethane
110.040	008	EPA 624	2-Chloroethyl Vinyl Ether
110.040	009	EPA 624	Chloroform
110.040	010	EPA 624	Chloromethane
110.040	011	EPA 624	Dibromochloromethane
110.040	012	EPA 624	1,2-Dichlorobenzene
110.040	013	EPA 624	1,3-Dichlorobenzene
110.040	014	EPA 624	1,4-Dichlorobenzene
110.040	015	EPA 624	1,1-Dichloroethane
110.040	016	EPA 624	1,2-Dichloroethane
110.040	017	EPA 624	1,1-Dichloroethene
110.040	018	EPA 624	trans-1,2-Dichloroethene
110.040	019	EPA 624	1,2-Dichloropropane
110.040	020	EPA 624	cis-1,3-Dichloropropene
110.040	021	EPA 624	trans-1,3-Dichloropropene
110.040	022	EPA 624	Ethylbenzene
110.040	023	EPA 624	Methylene Chloride
110.040	024	EPA 624	1,1,2,2-Tetrachloroethane
110.040	025	EPA 624	Tetrachloroethene

110.040	026	EPA 624	Toluene
110.040	027	EPA 624	1,1,1-Trichloroethane
110.040	028	EPA 624	1,1,2-Trichloroethane
110.040	029	EPA 624	Trichloroethene
110.040	030	EPA 624	Trichlorofluoromethane
110.040	031	EPA 624	Vinyl Chloride
110.040	042	EPA 624	Oxygenates

111 - Semi-volatile Organic Chemistry of Wastewater

111.100	001	EPA 625	Acenaphthene
111.100	002	EPA 625	Acenaphthylene
111.100	003	EPA 625	Anthracene
111.100	004	EPA 625	Benzidine
111.100	005	EPA 625	Benz(a)anthracene
111.100	006	EPA 625	Benzo(b)fluoranthene
111.100	007	EPA 625	Benzo(k)fluoranthene
111.100	008	EPA 625	Benzo(g,h,i)perylene
111.100	009	EPA 625	Benzo(a)pyrene
111.100	010	EPA 625	Benzyl Butyl Phthalate
111.100	011	EPA 625	bis(2-chloroethoxy)methane
111.100	012	EPA 625	bis(2-chloroethyl) Ether
111.100	013	EPA 625	Bis(2-chloroisopropyl) Ether
111.100	014	EPA 625	Di(2-ethylhexyl) Phthalate
111.100	015	EPA 625	4-Bromophenyl Phenyl Ether
111.100	016	EPA 625	4-Chloro-3-methylphenol
111.100	017	EPA 625	2-Chloronaphthalene
111.100	018	EPA 625	2-Chlorophenol
111.100	019	EPA 625	4-Chlorophenyl Phenyl Ether
111.100	020	EPA 625	Chrysene
111.100	021	EPA 625	Dibenz(a,h)anthracene
111.100	025	EPA 625	3,3'-Dichlorobenzidine
111.100	026	EPA 625	2,4-Dichlorophenol
111.100	027	EPA 625	Diethyl Phthalate
111.100	028	EPA 625	2,4-Dimethylphenol
111.100	029	EPA 625	Dimethyl Phthalate
111.100	030	EPA 625	Di-n-butyl phthalate
111.100	031	EPA 625	Di-n-octyl phthalate
111.100	032	EPA 625	2,4-Dinitrophenol
111.100	033	EPA 625	2,4-Dinitrotoluene
111.100	034	EPA 625	2,6-Dinitrotoluene
111.100	035	EPA 625	Fluoranthene
111.100	036	EPA 625	Fluorene

111.100	037	EPA 625	Hexachlorobenzene
111.100	038	EPA 625	Hexachlorobutadiene
111.100	039	EPA 625	Hexachlorocyclopentadiene
111.100	040	EPA 625	Hexachloroethane
111.100	041	EPA 625	Indeno(1,2,3-c,d)pyrene
111.100	042	EPA 625	Isophorone
111.100	043	EPA 625	2-Methyl-4,6-dinitrophenol
111.100	044	EPA 625	Naphthalene
111.100	045	EPA 625	Nitrobenzene
111.100	046	EPA 625	2-Nitrophenol
111.100	047	EPA 625	4-Nitrophenol
111.100	048	EPA 625	N-nitrosodimethylamine
111.100	049	EPA 625	N-nitroso-di-n-propylamine
111.100	050	EPA 625	N-nitrosodiphenylamine
111.100	051	EPA 625	Pentachlorophenol
111.100	052	EPA 625	Phenanthrene
111.100	053	EPA 625	Phenol
111.100	054	EPA 625	Pyrene
111.100	055	EPA 625	1,2,4-Trichlorobenzene
111.100	056	EPA 625	2,4,6-Trichlorophenol
111.101	032	EPA 625	Polynuclear Aromatic Hydrocarbons
111.101	034	EPA 625	Phthalates
111.101	036	EPA 625	Other Extractables
111.170	001	EPA 608	Aldrin
111.170	002	EPA 608	a-BHC
111.170	003	EPA 608	b-BHC
111.170	004	EPA 608	d-BHC
111.170	005	EPA 608	g-BHC (Lindane)
111.170	006	EPA 608	Chlordane
111.170	007	EPA 608	4,4'-DDD
111.170	008	EPA 608	4,4'-DDE
111.170	009	EPA 608	4,4'-DDT
111.170	010	EPA 608	Dieldrin
111.170	011	EPA 608	Endosulfan I
111.170	012	EPA 608	Endosulfan II
111.170	013	EPA 608	Endosulfan Sulfate
111.170	014	EPA 608	Endrin
111.170	015	EPA 608	Endrin Aldehyde
111.170	016	EPA 608	Heptachlor
111.170	017	EPA 608	Heptachlor Epoxide
111.170	018	EPA 608	Toxaphene

111.170	019	EPA 608	PCB-1016
111.170	020	EPA 608	PCB-1221
111.170	021	EPA 608	PCB-1232
111.170	022	EPA 608	PCB-1242
111.170	023	EPA 608	PCB-1248
111.170	024	EPA 608	PCB-1254
111.170	025	EPA 608	PCB-1260
111.170	030	EPA 608	Organochlorine Pesticides
111.170	031	EPA 608	PCBs
111.272	001	SM5520B (20th)	Oil and Grease
111.273	001	EPA 1664A	Oil and Grease

114 - Inorganic Chemistry of Hazardous Waste

114.010	001	EPA 6010B	Antimony
114.010	002	EPA 6010B	Arsenic
114.010	003	EPA 6010B	Barium
114.010	004	EPA 6010B	Beryllium
114.010	005	EPA 6010B	Cadmium
114.010	006	EPA 6010B	Chromium
114.010	007	EPA 6010B	Cobalt
114.010	008	EPA 6010B	Copper
114.010	009	EPA 6010B	Lead
114.010	010	EPA 6010B	Molybdenum
114.010	011	EPA 6010B	Nickel
114.010	012	EPA 6010B	Selenium
114.010	013	EPA 6010B	Silver
114.010	014	EPA 6010B	Thallium
114.010	015	EPA 6010B	Vanadium
114.010	016	EPA 6010B	Zinc
114.020	001	EPA 6020	Antimony
114.020	002	EPA 6020	Arsenic
114.020	003	EPA 6020	Barium
114.020	004	EPA 6020	Beryllium
114.020	005	EPA 6020	Cadmium
114.020	006	EPA 6020	Chromium
114.020	007	EPA 6020	Cobalt
114.020	008	EPA 6020	Copper
114.020	009	EPA 6020	Lead
114.020	010	EPA 6020	Molybdenum
114.020	011	EPA 6020	Nickel
114.020	012	EPA 6020	Selenium
114.020	013	EPA 6020	Silver

114.020	014	EPA 6020	Thallium
114.020	015	EPA 6020	Vanadium
114.020	016	EPA 6020	Zinc
114.103	001	EPA 7196A	Chromium (VI)
114.106	001	EPA 7199	Chromium (VI)
114.140	001	EPA 7470A	Mercury
114.141	001	EPA 7471A	Mercury
114.222	001	EPA 9014	Cyanide
114.230	001	EPA 9034	Sulfides, Total
114.240	001	EPA 9040B	Corrosivity - pH Determination
114.241	001	EPA 9045C	Corrosivity - pH Determination
114.250	001	EPA 9056	Fluoride

115 - Extraction Test of Hazardous Waste

115.020	001	EPA 1311	Toxicity Characteristic Leaching Procedure (TCLP)
115.030	001	CCR Chapter11, Article 5, Appendix II	Waste Extraction Test (WET)
115.040	001	EPA 1312	Synthetic Precipitation Leaching Procedure (SPLP)

116 - Volatile Organic Chemistry of Hazardous Waste

116.010	001	EPA 8011	1,2-Dibromoethane
116.010	002	EPA 8011	Dibromochloropropane
116.020	011	EPA 8015B	Ethylene Glycol
116.020	031	EPA 8015B	Ethanol and Methanol
116.030	001	EPA 8015B	Gasoline-range Organics
116.040	002	EPA 8021B	Benzene
116.040	039	EPA 8021B	Ethylbenzene
116.040	041	EPA 8021B	Methyl tert-butyl Ether (MTBE)
116.040	047	EPA 8021B	Toluene
116.040	056	EPA 8021B	Xylenes, Total
116.040	062	EPA 8021B	BTEX
116.080	000	EPA 8260B	Volatile Organic Compounds
116.080	001	EPA 8260B	Acetone
116.080	002	EPA 8260B	Acetonitrile
116.080	003	EPA 8260B	Acrolein
116.080	004	EPA 8260B	Acrylonitrile
116.080	005	EPA 8260B	Allyl Alcohol
116.080	006	EPA 8260B	Allyl Chloride
116.080	007	EPA 8260B	Benzene
116.080	009	EPA 8260B	Bromoacetone
116.080	010	EPA 8260B	Bromochloromethane
116.080	011	EPA 8260B	Bromodichloromethane
116.080	012	EPA 8260B	Bromoform
116.080	013	EPA 8260B	Bromomethane

116.080	014	EPA 8260B	n-Butyl Alcohol
116.080	015	EPA 8260B	Carbon Disulfide
116.080	016	EPA 8260B	Carbon Tetrachloride
116.080	018	EPA 8260B	Chlorobenzene
116.080	019	EPA 8260B	Chloroethane
116.080	020	EPA 8260B	2-Chloroethyl Vinyl Ether
116.080	021	EPA 8260B	Chloroform
116.080	022	EPA 8260B	Chloromethane
116.080	023	EPA 8260B	Chloroprene
116.080	024	EPA 8260B	3-Chloropropionitrile
116.080	025	EPA 8260B	Crotonaldehyde
116.080	026	EPA 8260B	Dibromochloromethane
116.080	027	EPA 8260B	Dibromochloropropane
116.080	028	EPA 8260B	1,2-Dibromoethane
116.080	030	EPA 8260B	Dibromomethane
116.080	031	EPA 8260B	1,2-Dichlorobenzene
116.080	032	EPA 8260B	1,3-Dichlorobenzene
116.080	033	EPA 8260B	1,4-Dichlorobenzene
116.080	034	EPA 8260B	cis-1,4-Dichloro-2-butene
116.080	035	EPA 8260B	trans-1,4-Dichloro-2-butene
116.080	036	EPA 8260B	Dichlorodifluoromethane
116.080	037	EPA 8260B	1,1-Dichloroethane
116.080	038	EPA 8260B	1,2-Dichloroethane
116.080	039	EPA 8260B	1,1-Dichloroethene
116.080	040	EPA 8260B	trans-1,2-Dichloroethene
116.080	041	EPA 8260B	cis-1,2-Dichloroethene
116.080	042	EPA 8260B	1,2-Dichloropropane
116.080	043	EPA 8260B	1,3-Dichloropropane
116.080	044	EPA 8260B	2,2-Dichloropropane
116.080	045	EPA 8260B	1,1-Dichloropropene
116.080	046	EPA 8260B	cis-1,3-Dichloropropene
116.080	047	EPA 8260B	trans-1,3-Dichloropropene
116.080	048	EPA 8260B	1,3-Dichloro-2-propanol
116.080	049	EPA 8260B	1,2,3,4-Diepoxybutane
116.080	050	EPA 8260B	1,4-Dioxane
116.080	053	EPA 8260B	Ethylbenzene
116.080	055	EPA 8260B	Ethyl Methacrylate
116.080	056	EPA 8260B	Hexachlorobutadiene
116.080	057	EPA 8260B	Hexachloroethane
116.080	058	EPA 8260B	2-Hexanone (MBK)
116.080	059	EPA 8260B	Iodomethane

116.080	060	EPA 8260B	Isobutyl Alcohol
116.080	061	EPA 8260B	Malononitrile
116.080	062	EPA 8260B	Methacrylonitrile
116.080	064	EPA 8260B	Methyl tert-butyl Ether (MTBE)
116.080	065	EPA 8260B	Methylene Chloride
116.080	066	EPA 8260B	Methyl Ethyl Ketone
116.080	067	EPA 8260B	Methyl Methacrylate
116.080	068	EPA 8260B	4-Methyl-2-pentanone (MIBK)
116.080	069	EPA 8260B	Naphthalene
116.080	070	EPA 8260B	Nitrobenzene
116.080	072	EPA 8260B	N-nitroso-di-n-butylamine
116.080	074	EPA 8260B	Pentachloroethane
116.080	075	EPA 8260B	Pentafluorobenzene
116.080	076	EPA 8260B	2-Picoline
116.080	078	EPA 8260B	Propionitrile
116.080	079	EPA 8260B	N-propylamine
116.080	080	EPA 8260B	Pyridine
116.080	081	EPA 8260B	1,1,1,2-Tetrachloroethane
116.080	082	EPA 8260B	1,1,2,2-Tetrachloroethane
116.080	083	EPA 8260B	Tetrachloroethene
116.080	084	EPA 8260B	Toluene
116.080	086	EPA 8260B	1,2,3-Trichlorobenzene
116.080	087	EPA 8260B	1,2,4-Trichlorobenzene
116.080	088	EPA 8260B	1,1,1-Trichloroethane
116.080	089	EPA 8260B	1,1,2-Trichloroethane
116.080	090	EPA 8260B	Trichloroethene
116.080	091	EPA 8260B	Trichlorofluoromethane
116.080	092	EPA 8260B	1,2,3-Trichloropropane
116.080	093	EPA 8260B	Vinyl Acetate
116.080	094	EPA 8260B	Vinyl Chloride
116.080	095	EPA 8260B	Xylenes, Total
116.080	096	EPA 8260B	tert-Amyl Methyl Ether (TAME)
116.080	097	EPA 8260B	tert-Butyl Alcohol (TBA)
116.080	098	EPA 8260B	Ethyl tert-butyl Ether (ETBE)
116.080	099	EPA 8260B	Bromobenzene
116.080	100	EPA 8260B	n-Butylbenzene
116.080	101	EPA 8260B	sec-Butylbenzene
116.080	102	EPA 8260B	tert-Butylbenzene
116.080	103	EPA 8260B	2-Chlorotoluene
116.080	104	EPA 8260B	4-Chlorotoluene
116.080	105	EPA 8260B	Isopropylbenzene

116.080	106	EPA 8260B	N-propylbenzene
116.080	107	EPA 8260B	Styrene
116.080	108	EPA 8260B	1,2,4-Trimethylbenzene
116.080	109	EPA 8260B	1,3,5-Trimethylbenzene
116.100	002	LUFT GC/MS	Benzene
116.100	003	LUFT GC/MS	Toluene
116.100	004	LUFT GC/MS	Xylenes
116.100	005	LUFT GC/MS	Methyl tert-butyl Ether (MTBE)
116.100	010	LUFT GC/MS	BTEX and MTBE
116.110	001	LUFT	Total Petroleum Hydrocarbons - Gasoline

117 - Semi-volatile Organic Chemistry of Hazardous Waste

117.010	001	EPA 8015B	Diesel-range Total Petroleum Hydrocarbons
117.015	001	LUFT GC/MS	Diesel-range Total Petroleum Hydrocarbons
117.016	001	LUFT	Diesel-range Total Petroleum Hydrocarbons
117.017	001	EPA 418.1	TRPH Screening
117.110	001	EPA 8270C	Acenaphthene
117.110	002	EPA 8270C	Acenaphthylene
117.110	003	EPA 8270C	Acetophenone
117.110	004	EPA 8270C	2-Acetylaminofluorene
117.110	005	EPA 8270C	1-Acetyl-2-thiourea
117.110	006	EPA 8270C	4-Aminobiphenyl
117.110	007	EPA 8270C	Aniline
117.110	008	EPA 8270C	Anthracene
117.110	010	EPA 8270C	Benzidine
117.110	011	EPA 8270C	Benz(a)anthracene
117.110	012	EPA 8270C	Benzo(b)fluoranthene
117.110	013	EPA 8270C	Benzo(k)fluoranthene
117.110	014	EPA 8270C	Benzo(g,h,i)perylene
117.110	015	EPA 8270C	Benzo(a)pyrene
117.110	016	EPA 8270C	Benzoic Acid
117.110	017	EPA 8270C	p-Benzoquinone
117.110	018	EPA 8270C	Benzyl Alcohol
117.110	019	EPA 8270C	Benzyl Butyl Phthalate
117.110	020	EPA 8270C	bis(2-chloroethoxy)methane
117.110	021	EPA 8270C	bis(2-chloroethyl) Ether
117.110	022	EPA 8270C	Bis(2-chloroisopropyl) Ether
117.110	023	EPA 8270C	Di(2-ethylhexyl) Phthalate
117.110	024	EPA 8270C	4-Bromophenyl Phenyl Ether
117.110	025	EPA 8270C	Carbazole
117.110	026	EPA 8270C	4-Chloroaniline
117.110	027	EPA 8270C	4-Chloro-3-methylphenol

117.110	029	EPA 8270C	2-Chloronaphthalene
117.110	030	EPA 8270C	2-Chlorophenol
117.110	031	EPA 8270C	4-Chlorophenyl Phenyl Ether
117.110	032	EPA 8270C	Chrysene
117.110	033	EPA 8270C	2-Cyclohexyl-4,6-dinitrophenol
117.110	034	EPA 8270C	2,4-Diaminotoluene
117.110	036	EPA 8270C	Dibenz(a,h)anthracene
117.110	037	EPA 8270C	Dibenzofuran
117.110	038	EPA 8270C	Dibenzo(a,e)pyrene
117.110	039	EPA 8270C	1,2-Dichlorobenzene
117.110	040	EPA 8270C	1,3-Dichlorobenzene
117.110	041	EPA 8270C	1,4-Dichlorobenzene
117.110	042	EPA 8270C	3,3'-Dichlorobenzidine
117.110	043	EPA 8270C	2,4-Dichlorophenol
117.110	044	EPA 8270C	2,6-Dichlorophenol
117.110	045	EPA 8270C	Diethyl Phthalate
117.110	050	EPA 8270C	p-Dimethylaminoazobenzene
117.110	051	EPA 8270C	7,12-Dimethylbenz(a)anthracene
117.110	052	EPA 8270C	a,a-Dimethylphenethylamine
117.110	053	EPA 8270C	2,4-Dimethylphenol
117.110	054	EPA 8270C	Dimethyl Phthalate
117.110	055	EPA 8270C	Di-n-butyl phthalate
117.110	056	EPA 8270C	Di-n-octyl phthalate
117.110	060	EPA 8270C	2,4-Dinitrophenol
117.110	061	EPA 8270C	2,4-Dinitrotoluene
117.110	062	EPA 8270C	2,6-Dinitrotoluene
117.110	063	EPA 8270C	Diphenylamine
117.110	064	EPA 8270C	1,2-Diphenylhydrazine
117.110	065	EPA 8270C	Ethyl Carbamate
117.110	066	EPA 8270C	Ethyl Methanesulfonate
117.110	067	EPA 8270C	Fluoranthene
117.110	068	EPA 8270C	Fluorene
117.110	069	EPA 8270C	Hexachlorobenzene
117.110	070	EPA 8270C	Hexachlorobutadiene
117.110	071	EPA 8270C	Hexachlorocyclopentadiene
117.110	072	EPA 8270C	Hexachloroethane
117.110	073	EPA 8270C	Hexachlorophene
117.110	074	EPA 8270C	Hexachloropropene
117.110	075	EPA 8270C	Indeno(1,2,3-c,d)pyrene
117.110	076	EPA 8270C	Isophorone
117.110	077	EPA 8270C	Isosafrole

117.110	078	EPA 8270C	Maleic Anhydride
117.110	079	EPA 8270C	3-Methylcholanthrene
117.110	080	EPA 8270C	2-Methyl-4,6-dinitrophenol
117.110	082	EPA 8270C	Methyl Methanesulfonate
117.110	083	EPA 8270C	2-Methylnaphthalene
117.110	084	EPA 8270C	2-Methylphenol
117.110	085	EPA 8270C	3-Methylphenol
117.110	086	EPA 8270C	4-Methylphenol
117.110	087	EPA 8270C	Naphthalene
117.110	088	EPA 8270C	1,4-Naphthoquinone
117.110	089	EPA 8270C	1-Naphthylamine
117.110	090	EPA 8270C	2-Naphthylamine
117.110	091	EPA 8270C	Nicotine
117.110	092	EPA 8270C	2-Nitroaniline
117.110	093	EPA 8270C	3-Nitroaniline
117.110	094	EPA 8270C	4-Nitroaniline
117.110	095	EPA 8270C	Nitrobenzene
117.110	096	EPA 8270C	2-Nitrophenol
117.110	097	EPA 8270C	4-Nitrophenol
117.110	098	EPA 8270C	N-nitroso-di-n-butylamine
117.110	099	EPA 8270C	N-nitrosodiethylamine
117.110	100	EPA 8270C	N-nitrosodimethylamine
117.110	101	EPA 8270C	N-nitroso-di-n-propylamine
117.110	102	EPA 8270C	N-nitrosodiphenylamine
117.110	103	EPA 8270C	N-nitrosomethylethylamine
117.110	104	EPA 8270C	N-nitrosomorpholine
117.110	105	EPA 8270C	N-nitrosopiperidine
117.110	106	EPA 8270C	N-nitrosopyrrolidine
117.110	107	EPA 8270C	5-Nitro-o-toluidine
117.110	108	EPA 8270C	Pentachlorobenzene
117.110	109	EPA 8270C	Pentachloronitrobenzene
117.110	110	EPA 8270C	Pentachlorophenol
117.110	111	EPA 8270C	Phenacetin
117.110	112	EPA 8270C	Phenanthrene
117.110	113	EPA 8270C	Phenol
117.110	116	EPA 8270C	2-Picoline
117.110	119	EPA 8270C	Pyrene
117.110	120	EPA 8270C	Pyridine
117.110	122	EPA 8270C	Safrole
117.110	124	EPA 8270C	1,2,4,5-Tetrachlorobenzene
117.110	125	EPA 8270C	2,3,4,6-Tetrachlorophenol

117.110	129	EPA 8270C	1,2,4-Trichlorobenzene
117.110	130	EPA 8270C	2,4,5-Trichlorophenol
117.110	131	EPA 8270C	2,4,6-Trichlorophenol
117.110	132	EPA 8270C	1,3,5-Trinitrobenzene
117.111	025	EPA 8270C	Dimethoate
117.111	026	EPA 8270C	Dinoseb
117.111	036	EPA 8270C	Famphur
117.111	039	EPA 8270C	Isodrin
117.111	040	EPA 8270C	Kepone
117.111	054	EPA 8270C	Parathion Ethyl
117.111	055	EPA 8270C	Parathion Methyl
117.111	056	EPA 8270C	Phorate
117.111	058	EPA 8270C	Sulfotepp
117.111	061	EPA 8270C	O,O,O-triethyl Phosphorothioate
117.111	073	EPA 8270C	Polynuclear Aromatic Hydrocarbons
117.111	075	EPA 8270C	Phthalates
117.111	076	EPA 8270C	Other Extractables
117.140	000	EPA 8310	Polynuclear Aromatic Hydrocarbons
117.140	001	EPA 8310	Acenaphthene
117.140	002	EPA 8310	Acenaphthylene
117.140	003	EPA 8310	Anthracene
117.140	004	EPA 8310	Benz(a)anthracene
117.140	005	EPA 8310	Benzo(a)pyrene
117.140	006	EPA 8310	Benzo(b)fluoranthene
117.140	007	EPA 8310	Benzo(k)fluoranthene
117.140	008	EPA 8310	Benzo(g,h,i)perylene
117.140	009	EPA 8310	Chrysene
117.140	010	EPA 8310	Dibenz(a,h)anthracene
117.140	011	EPA 8310	Fluoranthene
117.140	012	EPA 8310	Fluorene
117.140	013	EPA 8310	Indeno(1,2,3-c,d)pyrene
117.140	014	EPA 8310	Naphthalene
117.140	015	EPA 8310	Phenanthrene
117.140	016	EPA 8310	Pyrene
117.170	000	EPA 8330	Nitroaromatics and Nitramines
117.170	001	EPA 8330	4-Amino-2,6-dinitrotoluene
117.170	002	EPA 8330	2-Amino-4,6-dinitrotoluene
117.170	003	EPA 8330	1,3-Dinitrobenzene
117.170	004	EPA 8330	2,4-Dinitrotoluene
117.170	005	EPA 8330	2,6-Dinitrotoluene
117.170	006	EPA 8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)

117.170	007	EPA 8330	Methyl-2,4,6-trinitrophenylnitramine
117.170	008	EPA 8330	Nitrobenzene
117.170	009	EPA 8330	2-Nitrotoluene
117.170	010	EPA 8330	3-Nitrotoluene
117.170	011	EPA 8330	4-Nitrotoluene
117.170	012	EPA 8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine
117.170	013	EPA 8330	1,3,5-Trinitrobenzene
117.170	014	EPA 8330	2,4,6-Trinitrotoluene
117.190	001	EPA 8332	Nitroglycerine
117.210	001	EPA 8081A	Aldrin
117.210	002	EPA 8081A	a-BHC
117.210	003	EPA 8081A	b-BHC
117.210	004	EPA 8081A	d-BHC
117.210	005	EPA 8081A	g-BHC (Lindane)
117.210	007	EPA 8081A	a-Chlordane
117.210	008	EPA 8081A	g-Chlordane
117.210	009	EPA 8081A	Chlordane (tech.)
117.210	010	EPA 8081A	Chlorobenzilate
117.210	011	EPA 8081A	Chloroneb
117.210	012	EPA 8081A	Chlorothalonil
117.210	013	EPA 8081A	4,4'-DDD
117.210	014	EPA 8081A	4,4'-DDE
117.210	015	EPA 8081A	4,4'-DDT
117.210	020	EPA 8081A	Dieldrin
117.210	021	EPA 8081A	Endosulfan I
117.210	022	EPA 8081A	Endosulfan II
117.210	023	EPA 8081A	Endosulfan Sulfate
117.210	024	EPA 8081A	Endrin
117.210	025	EPA 8081A	Endrin Aldehyde
117.210	026	EPA 8081A	Endrin Ketone
117.210	027	EPA 8081A	Heptachlor
117.210	028	EPA 8081A	Heptachlor Epoxide
117.210	029	EPA 8081A	Hexachlorobenzene
117.210	033	EPA 8081A	Methoxychlor
117.210	039	EPA 8081A	Toxaphene
117.220	000	EPA 8082	PCBs
117.220	001	EPA 8082	PCB-1016
117.220	002	EPA 8082	PCB-1221
117.220	003	EPA 8082	PCB-1232
117.220	004	EPA 8082	PCB-1242
117.220	005	EPA 8082	PCB-1248

117.220	006	EPA 8082	PCB-1254
117.220	007	EPA 8082	PCB-1260
117.220	008	EPA 8082	2-Chlorobiphenyl
117.220	009	EPA 8082	2,3-Dichlorobiphenyl
117.220	010	EPA 8082	2,2',5-Trichlorobiphenyl
117.220	011	EPA 8082	2,4',5-Trichlorobiphenyl
117.220	012	EPA 8082	2,2',3,5'-Tetrachlorobiphenyl
117.220	013	EPA 8082	2,2',5,5'-Tetrachlorobiphenyl
117.220	014	EPA 8082	2,3',4,4'-Tetrachlorobiphenyl
117.220	015	EPA 8082	2,2',3,4,5'-Pentachlorobiphenyl
117.220	016	EPA 8082	2,2',4,5,5'-Pentachlorobiphenyl
117.220	017	EPA 8082	2,3,3',4',6-Pentachlorobiphenyl
117.220	018	EPA 8082	2,2',3,4,4',5'-Hexachlorobiphenyl
117.220	019	EPA 8082	2,2',3,4,5,5'-Hexachlorobiphenyl
117.220	020	EPA 8082	2,2',3,5,5',6-Hexachlorobiphenyl
117.220	021	EPA 8082	2,2',4,4',5,5'-Hexachlorobiphenyl
117.220	022	EPA 8082	2,2',3,3',4,4',5-Heptachlorobiphenyl
117.220	023	EPA 8082	2,2',3,4,4',5,5'-Heptachlorobiphenyl
117.220	024	EPA 8082	2,2',3,4,4',5',6-Heptachlorobiphenyl
117.220	025	EPA 8082	2,2',3,4',5,5',6-Heptachlorobiphenyl
117.220	026	EPA 8082	2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl
117.240	000	EPA 8141A	Organophosphorus Pesticides
117.240	001	EPA 8141A	Atrazine
117.240	002	EPA 8141A	Azinphos Methyl
117.240	004	EPA 8141A	Chlorfenvinphos
117.240	005	EPA 8141A	Chlorpyrifos
117.240	006	EPA 8141A	Chlorpyrifos Methyl
117.240	007	EPA 8141A	Demeton-O
117.240	008	EPA 8141A	Demeton-S
117.240	009	EPA 8141A	Diazinon
117.240	010	EPA 8141A	Dimethoate
117.240	012	EPA 8141A	EPN
117.240	013	EPA 8141A	Ethion
117.240	014	EPA 8141A	Famphur
117.240	015	EPA 8141A	Malathion
117.240	016	EPA 8141A	Mevinphos
117.240	017	EPA 8141A	Naled
117.240	018	EPA 8141A	Parathion Ethyl
117.240	019	EPA 8141A	Parathion Methyl
117.240	020	EPA 8141A	Phorate
117.240	022	EPA 8141A	Ronnel

117.240	024	EPA 8141A	Sulfotepp
117.240	026	EPA 8141A	Thionazin
117.250	001	EPA 8151A	2,4-D
117.250	002	EPA 8151A	2,4-DB
117.250	003	EPA 8151A	2,4,5-T
117.250	004	EPA 8151A	2,4,5-TP
117.250	006	EPA 8151A	Dalapon
117.250	007	EPA 8151A	Dichlorprop
117.250	008	EPA 8151A	Dinoseb
117.250	009	EPA 8151A	MCPA
117.250	010	EPA 8151A	MCPP
117.250	011	EPA 8151A	4-Nitrophenol
117.250	012	EPA 8151A	Pentachlorophenol
117.250	013	EPA 8151A	Picloram
117.250	014	EPA 8151A	Dicamba
117.250	015	EPA 8151A	3,5-Dichlorobenzoic Acid
117.250	016	EPA 8151A	Acifluorfen
117.250	017	EPA 8151A	Bentazon
117.250	018	EPA 8151A	Chloramben
117.250	019	EPA 8151A	DCPA

120 - Physical Properties of Hazardous Waste

120.010	001	EPA 1010	Ignitability
120.040	001	Section 7.3 SW-846	Reactive Cyanide
120.050	001	Section 7.3 SW-846	Reactive Sulfide
120.070	001	EPA 9040B	Corrosivity - pH Determination
120.080	001	EPA 9045C	Corrosivity - pH Determination

Certifications

EMAX holds all appropriate certifications, validations, approvals and licenses from governmental, state and local agencies to provide legally defensible data for a wide variety of projects, from groundwater monitoring to investigation and remediation on National Priority List sites.

Federal Government Validations

- Department of Defense Environmental Laboratory Accreditation Program (DOD ELAP)
  - United States Army (USACE)
  - United States Navy (NFESC)
  - United States Air Force (AFCEE)
- Department of Food and Agriculture Permit to Import Soils
- Department of Energy

State Certifications

- Arizona
- California
- Connecticut
- Florida
- Hawaii
- Kansas
- Massachusetts
- Nebraska
- Nevada
- North Carolina
- South Carolina
- Utah
- Washington

Accredited Labs Search

This page allows queries of the DoD ELAP accredited labs database. Searching will return information on labs, fields and testing methods. To run a query please choose the information you are interested in from the drop down menus below.
Then click the “Run Report” button.

If you are only interested in lab information (such as contact and accreditation information), choose the appropriate options in the lab and/or state drop downs, select “yes” next to “Return Lab Info Only” and then click the “Run Report” button.

If you are experiencing any technical problems with the query, please contact the DENIX Helpdesk

For questions about the data contained on this page, please contact the respective labs.

This information may not be up to date.
Please verify all information found on this page with the respective lab.

Lab Name: Emax Laboratories, Inc

State: California

Matrix: All

Subfield: All

Method: All

Return Lab Info Only? No Yes

Run Report

Emax Laboratories, Inc

Torrance, CA

Contact: Kenette Pimentel

Email: Kpimentel@emaxlabs.com

Phone: 310-618-8889

Website: http://www.emaxlabs.com

Accreditation Body Website: http://www.l-a-b.com

Accredited From: 01/10/2011 **To:** 01/10/2014

	Matrix	Subfield	Method
1	Air	Organic	TO-15
2	Drinking Water	Organic	EPA 524.2
3	Solid	General Chemistry	EPA 1010
4	Solid	General Chemistry	EPA 9040
5	Solid	General Chemistry	EPA 9045
6	Solid	General Chemistry	SM 4500-NH3 C
7	Solid	General Chemistry	SM 4500-NH3 F
8	Solid	General Chemistry	SM 4500-P B-5
9	Solid	Inorganic	EPA 3010
10	Solid	Inorganic	EPA 3050
11	Solid	Inorganic	EPA 3060
12	Solid	Inorganic	EPA 6010
13	Solid	Inorganic	EPA 6020
14	Solid	Inorganic	EPA 7196
15	Solid	Inorganic	EPA 7199
16	Solid	Inorganic	EPA 7470
17	Solid	Inorganic	EPA 7471
18	Solid	Inorganic	SM 4500-NOrg C
19	Solid	Organic	AK-101
20	Solid	Organic	AK-102
	Matrix	Subfield	Method
21	Solid	Organic	AK-103
22	Solid	Organic	CA 939M
23	Solid	Organic	EPA 1311
24	Solid	Organic	EPA 1312

25	Solid	Organic	EPA 3520
26	Solid	Organic	EPA 3540
27	Solid	Organic	EPA 3550
28	Solid	Organic	EPA 3580
29	Solid	Organic	EPA 3640
30	Solid	Organic	EPA 3660
31	Solid	Organic	EPA 3665
32	Solid	Organic	EPA 5030
33	Solid	Organic	EPA 5035
34	Solid	Organic	EPA 8015
35	Solid	Organic	EPA 8081
36	Solid	Organic	EPA 8082
37	Solid	Organic	EPA 8141
38	Solid	Organic	EPA 8151
39	Solid	Organic	EPA 8260
40	Solid	Organic	EPA 8270
	Matrix	Subfield	Method
41	Solid	Organic	EPA 8310
42	Solid	Organic	EPA 8330
43	Solid	Organic	EPA 9065
44	Solid	Organic	RSK175
45	Water	General Chemistry	EPA 1010
46	Water	General Chemistry	EPA 120.1
47	Water	General Chemistry	EPA 150.1
48	Water	General Chemistry	EPA 160.1
49	Water	General Chemistry	EPA 160.2
50	Water	General Chemistry	EPA 160.3
51	Water	General Chemistry	EPA 1664
52	Water	General Chemistry	EPA 180.1
53	Water	General Chemistry	EPA 310.1
54	Water	General Chemistry	EPA 314.0
55	Water	General Chemistry	EPA 330.3
56	Water	General Chemistry	EPA 335.2
57	Water	General Chemistry	EPA 351.3
58	Water	General Chemistry	EPA 370.1
59	Water	General Chemistry	EPA 376.1
60	Water	General Chemistry	EPA 376.2
	Matrix	Subfield	Method
61	Water	General Chemistry	EPA 405.1
62	Water	General Chemistry	EPA 410.4
63	Water	General Chemistry	EPA 415.1
64	Water	General Chemistry	EPA 420.1
65	Water	General Chemistry	EPA 425.1
66	Water	General Chemistry	EPA 9040
67	Water	General Chemistry	EPA 9045
68	Water	General Chemistry	SM 2130

69	Water	General Chemistry	SM 2320
70	Water	General Chemistry	SM 2340
71	Water	General Chemistry	SM 2340B
72	Water	General Chemistry	SM 2340C
73	Water	General Chemistry	SM 2510
74	Water	General Chemistry	SM 2540
75	Water	General Chemistry	SM 2540B
76	Water	General Chemistry	SM 2540C
77	Water	General Chemistry	SM 2540D
78	Water	General Chemistry	SM 4500
79	Water	General Chemistry	SM 4500-NH3 C
80	Water	General Chemistry	SM 4500-NH3 F
	Matrix	Subfield	Method
81	Water	General Chemistry	SM 4500-NO2 B
82	Water	General Chemistry	SM 4500-P B-5
83	Water	General Chemistry	SM 4500-P E
84	Water	General Chemistry	SM 4500-S2 D
85	Water	General Chemistry	SM 4500-S2 F
86	Water	General Chemistry	SM 4500-SiO2 C
87	Water	General Chemistry	SM 5210
88	Water	General Chemistry	SM 5220
89	Water	General Chemistry	SM 5310
90	Water	General Chemistry	SM 5310B
91	Water	General Chemistry	SM 5540
92	Water	Inorganic	EPA 130.2
93	Water	Inorganic	EPA 200.8
94	Water	Inorganic	EPA 218.6
95	Water	Inorganic	EPA 245.1
96	Water	Inorganic	EPA 300-Mod
97	Water	Inorganic	EPA 300.0
98	Water	Inorganic	EPA 3005
99	Water	Inorganic	EPA 3010
100	Water	Inorganic	EPA 350.2
	Matrix	Subfield	Method
101	Water	Inorganic	EPA 352.1
102	Water	Inorganic	EPA 354.1
103	Water	Inorganic	EPA 365.2
104	Water	Inorganic	EPA 6010
105	Water	Inorganic	EPA 6020
106	Water	Inorganic	EPA 7196
107	Water	Inorganic	EPA 7199
108	Water	Inorganic	EPA 7470
109	Water	Inorganic	EPA 7471
110	Water	Inorganic	SM 3500
111	Water	Inorganic	SM 4500-Cl B
112	Water	Inorganic	SM 4500-NO3 E

113	Water	Inorganic	SM 4500-NOrg C
114	Water	Organic	AK-101
115	Water	Organic	AK-102
116	Water	Organic	AK-103
117	Water	Organic	CA 939M
118	Water	Organic	EPA 1311
119	Water	Organic	EPA 1312
120	Water	Organic	EPA 3510
	Matrix	Subfield	Method
121	Water	Organic	EPA 3520
122	Water	Organic	EPA 353.3
123	Water	Organic	EPA 3580
124	Water	Organic	EPA 5030
125	Water	Organic	EPA 608
126	Water	Organic	EPA 624
127	Water	Organic	EPA 625
128	Water	Organic	EPA 6850
129	Water	Organic	EPA 8015
130	Water	Organic	EPA 8081
131	Water	Organic	EPA 8082
132	Water	Organic	EPA 8141
133	Water	Organic	EPA 8151
134	Water	Organic	EPA 8260
135	Water	Organic	EPA 8260 SIM
136	Water	Organic	EPA 8270
137	Water	Organic	EPA 8270 SIM
138	Water	Organic	EPA 8310
139	Water	Organic	EPA 8330
140	Water	Organic	EPA 9065
	Matrix	Subfield	Method
141	Water	Organic	RSK175

Returned Results: 141 **Lab Name:** Emax Laboratories, Inc

Last Modified: 08 December 2010 at 15:35

APPENDIX E
MOLAR CALCULATION

(Provided on CD only)

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E-2 Molarity Trends of Chlorinated Ethenes in the A2 Aquifer

TABLES

E-1 Molarity Trends of Chlorinated Ethenes from Grab-groundwater Results at OPHA

E-2 Molarity Calculations for Detected Chlorinated Ethenes from Grab-groundwater Samples at OPHA

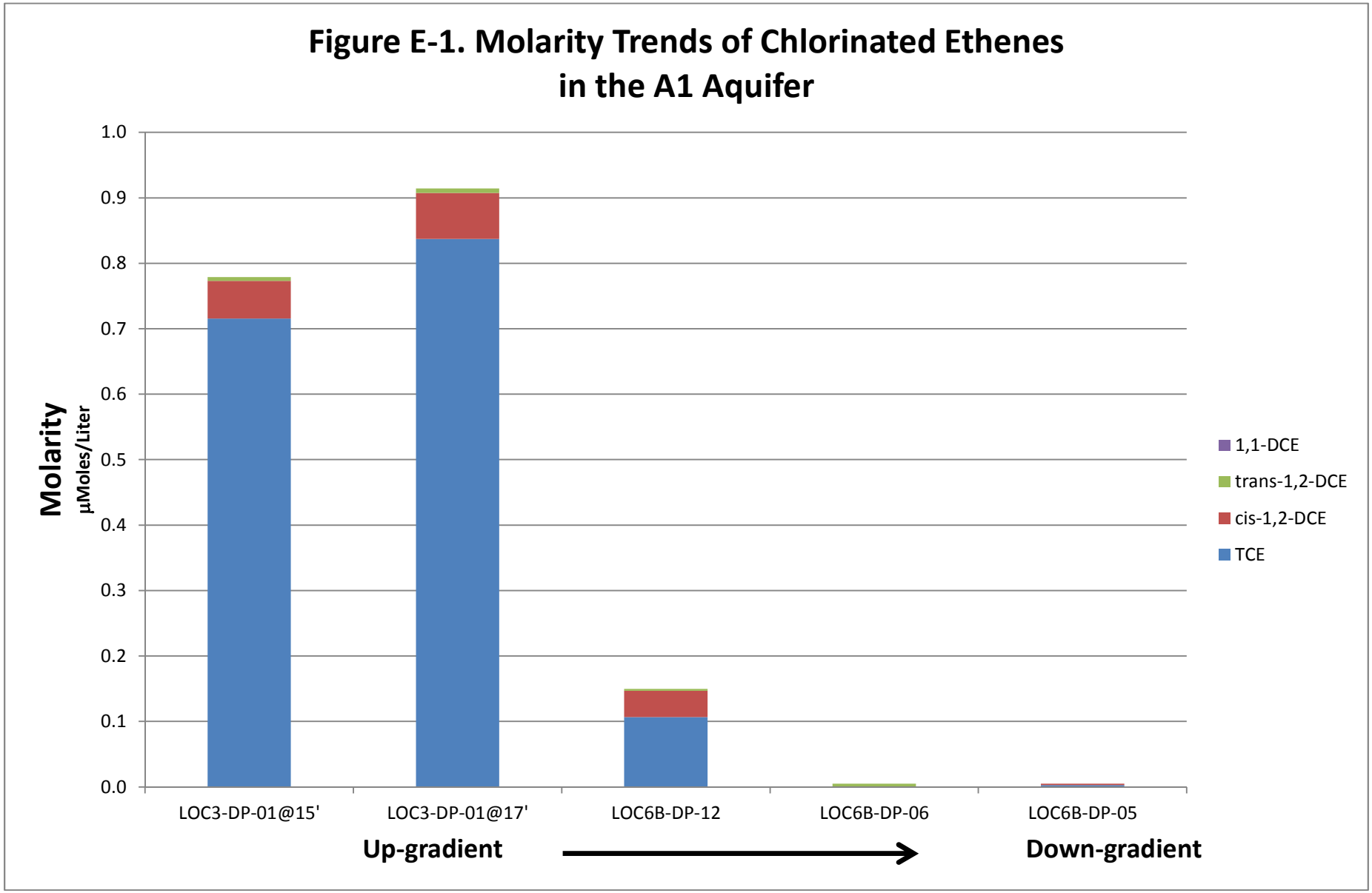
Figure E-1. Molarity Trends of Chlorinated Ethenes in the A1 Aquifer
Molarity
µMoles/Liter
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
LOC3-DP-01@15'
LOC3-DP-01@17'
LOC6B-DP-12
LOC6B-DP-06
LOC6B-DP-05
Up-gradient
Down-gradient
1,1-DCE
trans-1,2-DCE
cis-1,2-DCE
TCE

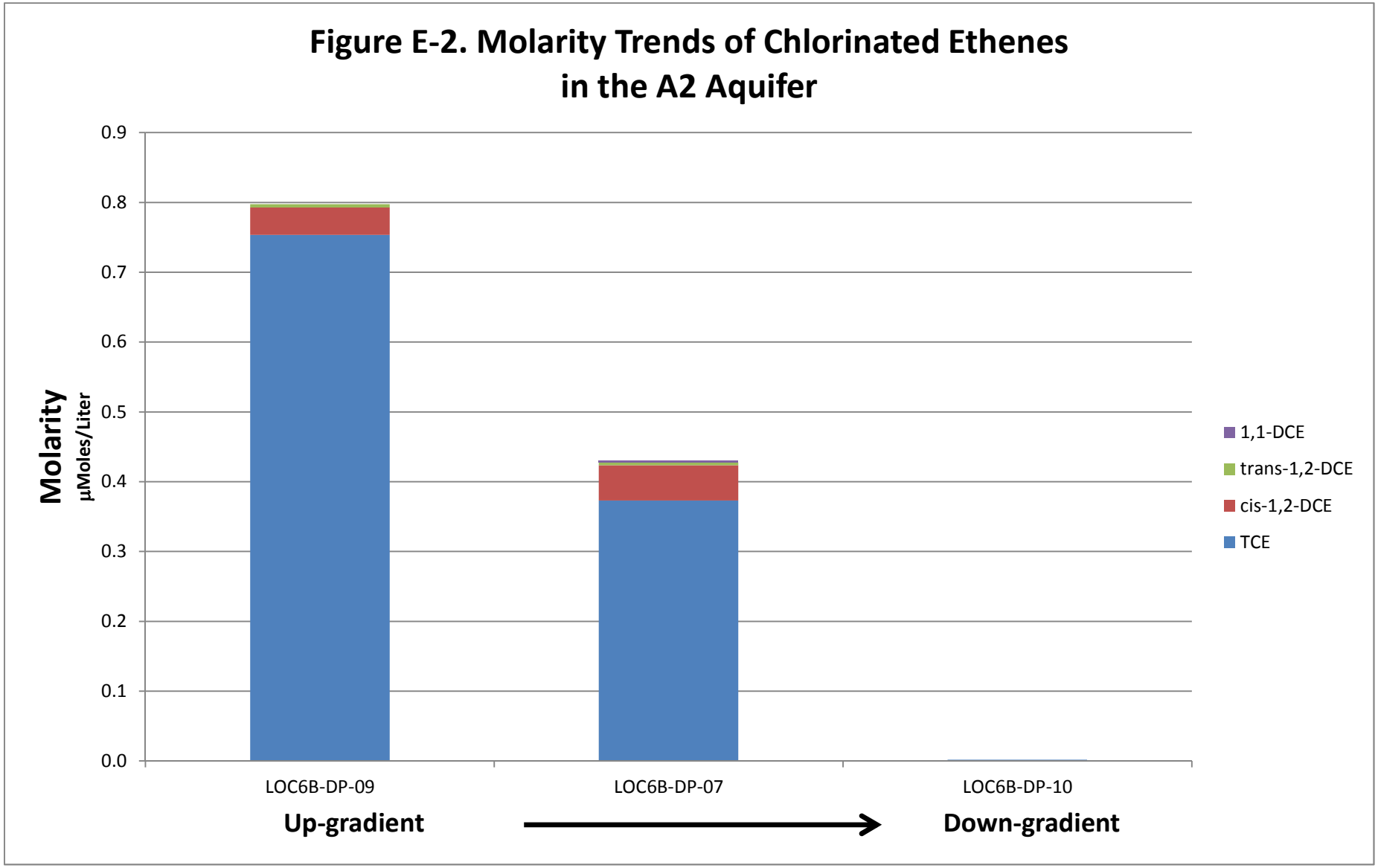
Figure E-2. Molarity Trends of Chlorinated Ethenes in the A2 Aquifer
Molarity
µMoles/Liter
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
LOC6B-DP-09
LOC6B-DP-07
LOC6B-DP-10
Up-gradient
Down-gradient
1,1-DCE
trans-1,2-DCE
cis-1,2-DCE
TCE

TABLE E-1: Molarity Trends of Chlorinated Ethenes from Grab-groundwater Results at OPHA

Direct Push ID	Location	Chlorinated Ethenes reported in µmoles/Liter				Total Molarity µmoles/Liter
		TCE	cis-1,2-DCE	trans-1,2-DCE	1,1-DCE	
A2 Aquifer						
LOC6B-DP-09	**Up-gradient**	0.75	0.039	0.0047	0.00	**0.80**
LOC6B-DP-07	↓	0.37	0.051	0.0042	0.0027	**0.43**
LOC6B-DP-10	**Down-gradient**	0.0019	0.00	0.00	0.00	**0.0019**
A1 Aquifer						
LOC3-DP-01@15'	**Up-gradient**	0.72	0.058	0.0056	0.00	**0.78**
LOC3-DP-01@17'	↓	0.84	0.070	0.0071	0.00	**0.91**
LOC6B-DP-12	↓	0.11	0.040	0.0029	0.00	**0.15**
LOC6B-DP-06	↓	0.00	0.00	0.0050	0.00	**0.0050**
LOC6B-DP-05	**Down-gradient**	0.0027	0.002	0.00	0.00	**0.005**
LOC6B-DP-07	**Cross-gradient**	0.34	0.050	0.0037	0.003	**0.4**
LOC3-DP-03	**Cross-gradient**	0.0058	0.0025	0.00	0.00	**0.0083**

* Duplicate Sample

Table E-2. Molarity Calculations for Detected Chlorinated Ethenes from Grab-groundwater Samples at OPHA

Location	Sample Depth Feet bgs		Analyte	Mass Concentration µg/L	Qualifier	Detection Limit µg/L	Molar Mass g/mol	Molarity mol/L	Molarity µmol/L	Total Molarity µmol/L
A2 Aquifer										
LOC6B-DP-09	43.5	44.5	cis-1,2-Dichloroethene (1,2-DCE)	3.8		1	96.943	3.9E-08	3.9E-02	
	43.5	44.5	trans-1,2-Dichloroethene	0.46	J	1	96.943	4.7E-09	4.7E-03	
	43.5	44.5	Trichloroethene (TCE)	99		1	131.388	7.5E-07	7.5E-01	0.80
LOC6B-DP-07	42	43	1,1-Dichloroethene	0.28	J	1	95.943	2.9E-09	2.9E-03	
	42	43	cis-1,2-Dichloroethene (1,2-DCE)	4.9		1	96.943	5.1E-08	5.1E-02	
	42	43	trans-1,2-Dichloroethene	0.42	J	1	96.943	4.3E-09	4.3E-03	
	42	43	Trichloroethene (TCE)	50		1	131.388	3.8E-07	3.8E-01	0.44
LOC6B-DP-10	42	43	Trichloroethene (TCE)	0.25	J	1	131.388	1.9E-09	1.9E-03	0.0019
A1 Aquifer										
LOC6B-DP-07	13	14	1,1-Dichloroethene	0.3	J	1	94.943	3E-09	3E-03	
	13	14	cis-1,2-Dichloroethene (1,2-DCE)	4.8		1	96.943	5.0E-08	5.0E-02	
	13	14	trans-1,2-Dichloroethene	0.36	J	1	96.943	3.7E-09	3.7E-03	
	13	14	Trichloroethene (TCE)	45		1	131.388	3.4E-07	3.4E-01	0.4
LOC3-DP-03	15	16	cis-1,2-Dichloroethene (1,2-DCE)	0.24	J	1	96.943	2.5E-09	2.5E-03	
	15	16	Trichloroethene (TCE)	0.76	J	1	131.388	5.8E-09	5.8E-03	0.008
LOC3-DP-01	15	16	cis-1,2-Dichloroethene (1,2-DCE)	5.6		1	96.943	5.8E-08	5.8E-02	
	15	16	trans-1,2-Dichloroethene	0.54	J	1	96.943	5.6E-09	5.6E-03	
	15	16	Trichloroethene (TCE)	94		1	131.388	7.2E-07	7.2E-01	0.78
LOC3-DP-01	17	18	cis-1,2-Dichloroethene (1,2-DCE)	6.8		1	96.943	7.0E-08	7.0E-02	
	17	18	trans-1,2-Dichloroethene	0.69	J	1	96.943	7.1E-09	7.1E-03	
	17	18	Trichloroethene (TCE)	110		10	131.388	8.4E-07	8.4E-01	0.91
LOC6B-DP-12	10	11	cis-1,2-Dichloroethene (1,2-DCE)	3.9		1	96.943	4.0E-08	4.0E-02	
	10	11	trans-1,2-Dichloroethene	0.28	J	1	96.943	2.9E-09	2.9E-03	
	10	11	Trichloroethene (TCE)	14		1	131.388	1.1E-07	1.1E-01	0.15
LOC6B-DP-06	12	13	Trichloroethene (TCE)	0.66	J	1	131.388	5.0E-09	5.0E-03	0.005
LOC6B-DP-05	12	13	cis-1,2-Dichloroethene (1,2-DCE)	0.2	J	1	96.943	2E-09	2E-03	
	12	13	Trichloroethene (TCE)	0.36	J	1	131.388	2.7E-09	2.7E-03	0.005

APPENDIX F
FIELD FORMS

(Provided on CD only)

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Groundwater Sampling Field Forms, January 2011

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Daily QC Reports, CPT/MIP Investigation, January 2011

Site Logs, DPT Investigation, February 2011

Daily QC Reports, DPT Investigation, February 2011

DPT Boring Logs

DPT Groundwater Grab Sample Chain-of-Custody Forms

Investigation-Derived Waste Forms

Utility Clearance Notifications

Field Notes

Vector Control Yard Wells

TETRA TECH EM INC.
GROUNDWATER LEVEL MEASUREMENTS LOG

Type of organic vapor meter used (circle): PID FID NONE

20 9

Well Identification Number	Organic Vapor Information: PID/FID Reading (ppm)	Organic Vapor Information: Date	Water Level Information: Well previously equilibrated? (Yes/No)	Water Level Information: If not previously equilibrated, pressure detected when cap removed? (NA/Yes/No)	Depth to Groundwater Information: Time	Depth to Groundwater Information: Date	Depth to Groundwater Information: Depth to Groundwater[1] from Pump Platform or Riser, if present (feet)	Depth to Groundwater Information: Thickness of Pump Platform or Riser, if present (feet)	Depth to Groundwater Information: Depth to Groundwater[1] from Top of PVC Casing (feet)	Depth to Well Bottom from Top of PVC Casing[2] (feet)	approximate depth from TOC to ground surface
1 VCY-3-A1		11/18/10	yes.	NA	17:17	11/18	NA	NA	10.65	24.11	0.65
2 VCY-3-A2		↓	↓	↓	17:21	↓	↓	↓	10.41	42.16	0.63
3 VCY-2-A2		↓	↓	↓	17:25	↓	↓	↓	8.51	43.15	0.48
4 VCY-2-A1		↓	↓	↓	1730	↓	↓	↓	9.93	22.89	0.13
5 VCY-4-A1		↓	↓	↓	1735	↓	↓	↓	10.52	20.18	0.41
6 VCY-4-A2		↓	↓	↓	1738	↓	↓	↓	10.14	39.20	0.50
Note: VCY-1-A1 and VCY-1-A2 could not be located.											

Notes: 1 Where bladder pump sampling platform or riser is present, depth to water must be corrected to depth from top of PVC casing.
2 Note if access to well bottom is limited by presence of dedicated bladder pump.

Field Staff: Dayna Yocum, Carolyn Felic

Field Staff Signature: [signature]

Page No.: 1 of 1

Date: 11/18/10

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9209

Lab PO#: to follow	Lab: EMAX
Project name: OPHA Moffett	TtEMI technical contact: Sara Woolley
Project (CTO) number: 1036 1521 0302	TtEMI project manager: Dayna Yocum
	Field samplers: Dayna Yocum, Rebecca Johnson
	Field samplers' signatures: Dayna Yocum Rebecca

Preservative Added: HCl

No./Container Types / Analysis Required

Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
~~SSS~~ SST-GW-001	MCH-1UA, 14-24 ft bgs	1/4/11	1000	water		3							X						
002	MCH-2LA, 32-42	1/4/11	1025			3													
003	MCH-3UA, 13-23.5	1/4/11	0820			3													
004	MCH-4LA, 34-44	1/3/11	1505			3													
005	MCH-5UA, 14-24	1/3/11	1410			3													
006	MCH-6LA, 41-51	1/4/11	1210			3													
007	MCH-7UA, 10-20	1/3/11	0935			3													
008	MCH-8LA, 35-45	1/3/11	0925		X	9													
009	MCH-9UA, 16-26	1/3/11	1250			3													
010	MCH-10LA, 35-45	1/4/11	1320			3													
011	MCH-11UA, 13-23	1/3/11	1135			3													
SST-D-001	MCH-9UA, 16-26	1/3/11	1255			3													

	Name (print)	Company Name	Date	Time
Relinquished by: Dayna Yocum	Dayna Yocum	TtEMI	1/4/11	1530
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:

2 day TAT

Fed Ex #:

WHITE-Laboratory Copy YELLOW-Sample Tracker PINK-File Copy

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9217

Lab PO#: to follow	Lab: EMAX
Project name: UPHA Moffett	TtEMI technical contact: Sara Woolley
Project (CTO) number: 103G1521 03.02	TtEMI project manager: Dayna Yocum
	Field samplers: Dayna Yocum, Rebecca Johnson
	Field samplers' signatures: [signature]

Preservative Added: HCl

Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA 8260	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
SS1-ER-001		1/4/11	1400	water		3							X						
SS1-SWB-001		↓	1405	↓		3							X						
SS1-TB-002		↓	1410	↓		1							X						

	Name (print)	Company Name	Date	Time
Relinquished by: [signature]	Dayna Yocum	TTEMI	1/4/11	1530
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:

2 day TAT

Fed Ex #:

WHITE-Laboratory Copy YELLOW-Sample Tracker PINK-File Copy

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

(Page 1 of 1)

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1/3/11
Daily Safety & Coordination Meeting Completed: X Yes ____ No	**Day:** Mon **Day #:** 1
Weather: cool, clear	**Wind:** none
Temperature: ~45°F	**Humidity:** none

Personnel on Site (AIS, Tt, Subcontractors)

Dayna Yocum, Rebecca Johnson (both TTEMI)

Subcontractors & Equipment on Site

none, groundwater sampling equipment (peristaltic + bladder pump)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

NA

Work Performed (Including Sampling)

groundwater sampling of wells MCH-4LA, MCH-5UA, MCH-7UA, MCH-8LA, MCH-9UA + MCH-11UA

Quality Control Activities

deconed reusable equipment (water level meter, bladder)

Health and Safety Levels and Activities

D

Problems Encountered / Corrective Action Taken

none

Deviations from Field Work Plan

none

Planned Work for Tomorrow

sample other 5 wells

Distribution: **Daily – TOM** **Weekly - USACE**	**Submitted By:** Dayna Yocum — **Signature** 1/3/11 — **Date**

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

(Page 1 of 1)

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1/4/11
Daily Safety & Coordination Meeting Completed: X Yes ____ No	**Day:** Tues **Day #:** 2
Weather: cool, clear	**Wind:** none
Temperature: ~45°F	**Humidity:** none

Personnel on Site (AIS, Tt, Subcontractors)

Dayna Yocum, Rebecca Johnson (both TTEMI)

Subcontractors & Equipment on Site

none, groundwater sampling equipment

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

NA

Work Performed (Including Sampling)

groundwater sampling of wells MCH-1UA, MCH-2LA, MCH-3UA, MCH-6LA, MCH-10LA

Quality Control Activities

decanned reusable equip, collect equip rinsate + source water blank samples

Health and Safety Levels and Activities

D

Problems Encountered / Corrective Action Taken

None

Deviations from Field Work Plan

~~None~~, sampled 2 of the lower aquifer wells with peristaltic pump instead of bladder pump. low flow requirements were maintained - will not change data

Planned Work for Tomorrow

None

Distribution: **Daily – TOM** **Weekly - USACE**	**Submitted By:** Dayna Yocum — **Signature** 1/4/11 — **Date**

TETRA TECH, INC.

DAILY TAILGATE SAFETY MEETING FORM

Date: 1/3/11 Time: 0715 Project No.: OPHA

Client: USACE Site Location: OPHA

Site Activities Planned for Today: groundwater sampling

Safety Topics Discussed
Protective clothing and equipment: boots, gloves
Chemical hazards: VOCs
Physical hazards: trips, falls, ~~insects~~, pinches
Environmental and biohazards: insects, sun
Equipment hazards: pinches
Decontamination procedures: alconox
Other:
Review of emergency procedures: call 911
Employee Questions or Comments: none

TETRA TECH, INC.

DAILY TAILGATE SAFETY MEETING FORM

Date: 8/4/11 Time: 0725 Project No.: 0PHA

Client: USACE Site Location:

Site Activities Planned for Today: groundwater sampling

Safety Topics Discussed
Protective clothing and equipment: boots, nitrile gloves, gloves
Chemical hazards: TCE
Physical hazards: trips, ~~fall~~ slips
Environmental and biohazards: insects, sun
Equipment hazards: pinches
Decontamination procedures: Alconox
Other:
Review of emergency procedures: drive to hospital, call 911
Employee Questions or Comments: none

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA Date: 1/9/11

Name (print)	Company	Time In	Time Out
Rebecca Johnson	TtEMI	0650	
Dayna Yocum	"	0710	

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA - Moffett Date: 1/3/11

Name (print)	Company	Time In	Time Out
Rebecca Johnson	TTEMI	0700	01555
Dayna Yocum	TTEMI	0700	1555

Comments:

TETRA TECH EM INC.
GROUNDWATER LEVEL MEASUREMENTS LOG

Type of organic vapor meter used (circle): PID FID

Well Identification Number	Organic Vapor Information: PID/FID Reading (ppm)	Organic Vapor Information: Date	Water Level Information: Well previously equilibrated? (Yes/No)	Water Level Information: If not previously equilibrated, pressure detected when cap removed? (NA/Yes/No)	Depth to Groundwater Information: Time	Depth to Groundwater Information: Date	Depth to Groundwater Information: Depth to Groundwater[1] from Pump Platform or Riser, if present (feet)	Depth to Groundwater Information: Thickness of Pump Platform or Riser, if present (feet)	Depth to Groundwater Information: Depth to Groundwater[1] from Top of PVC Casing (feet)	Depth to Well Bottom from Top of PVC Casing[2] (feet)	Comments
MCH-11UA	1.8	1/3/11	yes	NA	~~1/3/11~~	1/3/11			5.18	20.17	
MCH-9UA	0.5	1/3/11	yes		1221				12.39	30.02	
MCH-8LA	0.5	1/3/11	yes		0840				11.84	48.80	
MCH-7UA	4.3	1/3/11	yes						11.59	23.53	
MCH-5UA	0.9	1/3/11	yes		1335				6.92	28.09	
MCH-4LA	1.1	1/3/11	yes		1444				7.36	46.79	
MCH-3UA	2.7	1/4/11	yes		0750	1/4/11			9.10	26.65	
MCH-1UA	53 max	1/4/11	yes		0920				10.46	24.10	PID up to 30 - down to 2.5 when sampling
MCH-2LA	40	1/4/11	yes		0930				10.78	42.20	PID up to 40 - down to 2.5 when sampling
MCH-6LA	0.8	1/4/11	yes		1130				12.21	54.41	

Notes: 1 Where bladder pump sampling platform or riser is present, depth to water must be corrected to depth from top of PVC casing.
2 Note if access to well bottom is limited by presence of dedicated bladder pump.

Field Staff: Dayna Yocum, Rebecca Johnson

Field Staff Signature: [signature]

Page No.: 1 of 2

Date: 1/4/11

TETRA TECH EM INC.
GROUNDWATER LEVEL MEASUREMENTS LOG

Type of organic vapor meter used (circle): PID FID

Well Identification Number	Organic Vapor Information		Water Level Information							Depth to Well Bottom from Top of PVC Casing[2] (feet)	Comments
					Depth to Groundwater Information						
	PID/FID Reading (ppm)	Date	Well previously equilibrated? (Yes/No)	If not previously equilibrated, pressure detected when cap removed? (NA/Yes/No)	Time	Date	Depth to Groundwater[1] from Pump Platform or Riser, if present (feet)	Thickness of Pump Platform or Riser, if present (feet)	Depth to Groundwater[1] from Top of PVC Casing (feet)		
MW-10LA	2.3	1/4/11	yes		1255	1/4/11			5.66	45.40	

Notes: 1 Where bladder pump sampling platform or riser is present, depth to water must be corrected to depth from top of PVC casing.
2 Note if access to well bottom is limited by presence of dedicated bladder pump.

Field Staff: Dayna Yocum, Rebecca Johnson

Field Staff Signature: [illegible]

Page No.: 2 of 2

Date: 1/4/11

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/4/11 , 1000 Project Site/Subsite: OPHA

Sample ID: SS1-GW-001

Field ID: MLH-WA Point Name:

Depth to Well Bottom: 24.10 ft. below top of casing (PVC cap)

Depth to Water Level: 10.46 ft. below PVC cap

Depth to Water Level: ~~24.10~~ 23 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump (peristaltic)

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

NA

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	0930	0933	0936	0939	0942	0945	0948	0951	0954		
PH	7.14	6.94	6.91	6.90	6.88	6.87	6.86	6.85	6.85	+/- 0.2	
Temperature (°C)	18.01	18.62	18.63	18.63	18.64	18.62	18.60	18.59	18.56	+/- 2.0 °C	
Specific Conductance (µmhos/cm) S/m	0.120	0.122	0.122	0.122	0.122	0.122	0.122	0.122	0.121	+/- 3%	
Turbidity (NTU)	65	70	72	58	42	48	61	59	68	+/- 10%	
Dissolved Oxygen (mg/L)	7.14	3.5	3.0	2.7	2.0	2.4	2.4	2.3	2.3	+/- 0.2	
ORP (mV)	230	229	224	222	221	220	220	219	219	+/- 10	
Each Volume Purged (L)	0.5	1	1	1	1	1	1	1	1		
Total Liters Purged	0.5	1.5	2.5	3.5	4.5	5.5	6.5	7.5	8.5		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments PID @ 50 ppm when impeded.

Sample(s) Collected By: DY, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/4/11 , 1025 Project Site/Subsite: OPHA

Sample ID: SSI-GW-002

Field ID: _____ Point Name: MCH-2LA

Depth to Well Bottom: 42.20 ft. below top of casing (PVC cap)

Depth to Water Level: 10.78 ft. below PVC cap

Depth to Water Level: _____ ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

Control Box Settings: Box # _____ Refill= 10 Discharge= 5 Throttle= 100 psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1006	1009	1012	1015	1019						
PH	7.02	7.02	7.00	7.00	7.00					+/- 0.2	
Temperature (°C)	18.29	18.35	18.36	18.28	17.94					+/- 2.0 °C	
Specific Conductance (µmhos/cm)	0.117	0.117	0.118	0.118	.117					+/- 3%	
Turbidity (NTU)	230	220	180	160	140					+/- 10%	
Dissolved Oxygen (mg/L)	7.4	7.2	6.5	6.2	5.8					+/- 0.2	
ORP (mV)	214	213	212	212	212					+/- 10	
Each Volume Purged (L)	1	1.5	1.5	1.5	1.5						
Total Liters Purged	1	2.5	4	5.5	7						

Duplicate Sample Collected? (No) Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? (No) Yes _____

Sample Remarks (odors, colors, sediment): _____

Comments PID - 30 when opened, when sampled Hnos at 2.7ppm

Sample(s) Collected By: DY, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

battery was dying, so we collected sample even though parameters were not stabilized.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/4/11 / 0820 Project Site/Subsite: Moffett OP-1A

Sample ID: 551-GW-0103

Field ID: MCH-30A Point Name: _____

Depth to Well Bottom: 26.605 ft. below top of casing (PVC cap) p 3

Depth to Water Level: 9.10 ft. below PVC cap PID 2.7 ppm

Depth to Water Level: 9.10 ft below PVC cap prior to sampling

Purge Calcs

NA

Method of Purging: Bladder Pump Submersible Pump

Bailer Peristaltic 400 mL

Minimum Purge Volume: Two-inch well _____ Liters min

Four-inch well _____ Liters 400

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/min Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	0751	0756	0759	0802	0805	0808	0811	0814	0817		0820
PH	6.59	6.94	6.99	7.01	7.02	7.02	7.02	7.02	7.02	+/- 0.2	
Temperature (°C)	15.77	18.00	18.01	18.00	17.94	18.07	18.13	18.14	18.14	+/- 2.0 °C	
Specific Conductance (µmhos/cm) S/m	0.108	0.112	0.112	0.113	0.113	0.113	0.113	0.113	0.113	+/- 3%	
Turbidity (NTU)	74	78	100	85	54	61	71	34	36	+/- 10%	
Dissolved Oxygen (mg/L)	5.5	3.4	3.2	3.1	3.0	3.0	2.9	2.9	2.8	+/- 0.2	
ORP (mV)	281	255	248	244	238	231	227	223	218	+/- 10	
Each Volume Purged (L)	1.2 L	2 L 1.25	1.2	1.2	1.2	1.2	1.2	1.2	1.2		
Total Liters Purged	1.2	3.2L	4.4L	5.6	6.8	8.0	9.2	10.4	11.6		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): none - clear, no odor

Comments _____

Sample(s) Collected By: DJ, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/3/11 , 1505 Project Site/Subsite: OPHA

Sample ID: 351 - GW - 004

Field ID: — Point Name: MCH-4LA

Depth to Well Bottom: ~~46.8~~ 46.79 ft. below top of casing (PVC cap)

Depth to Water Level: 7.36 ft. below PVC cap

Depth to Water Level: 7.36 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

Control Box Settings: Box # _____ Refill= 10 Discharge= 5 Throttle= 100 psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1444	1447	1450	1453	1456	1459	1501				
PH	7.27	7.18	7.15	7.14	7.13	7.12	7.12			+/- 0.2	
Temperature (°C)	17.65	18.20	18.37	18.34	18.30	18.36	18.28			+/- 2.0 °C	
Specific Conductance (µmhos/cm)	96.7	98.4	98.1	97.6	97.3	97.0	97.1			+/- 3%	
Turbidity (NTU)	140	130	160	90	84	92	94			+/- 10%	
Dissolved Oxygen (mg/L)	7.8	4.0	3.1	2.8	2.5	2.4	2.3			+/- 0.2	
ORP (mV)	184	183	181	179	177	175	174			+/- 10	
Each Volume Purged (L)	1.5	1.5	1.5	1.5	1.5	1.5	1.5				
Total Liters Purged	1.5	3	4.5	6.0	7.5	9.0	10.5				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): clear

Comments T

Sample(s) Collected By: DJ, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/3/11 , 1410 Project Site/Subsite: OPHA

Sample ID: SS1- GW- 005

Field ID: 5JA Point Name: _____

Depth to Well Bottom: 23.09 ft. below top of casing (PVC cap)

Depth to Water Level: 6.92 ft. below PVC cap

Depth to Water Level: 6.92 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

~~.03~~ .33 L
min

.33
x 3
9

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1341	1344	1347	1350	1353	1356	1359	1402	1405		1410
PH	7.37	7.27	7.25	7.24	7.24	7.23	7.23	7.23	7.23	+/- 0.2	
Temperature (°C)	17.88	17.84	17.82	17.80	17.81	17.82	17.78	17.77	17.74	+/- 2.0 °C	
Specific Conductance (µmhos/cm)	0.129	0.128	.127	.127	.125	.124	.124	.123	.123	+/- 3%	
Turbidity (NTU)	26	6	22	24	50	32	51	60	79	+/- 10%	
Dissolved Oxygen (mg/L)	5.9	4.2	3.8	3.4	3.2	3.0	2.9	2.8	2.7	+/- 0.2	
ORP (mV)	177	177.	176	174	172	171	171	170	170	+/- 10	
Each Volume Purged (L)	~~.331~~	1L ~~0.33~~	1L ~~0.33~~	1L ~~.33~~	1L	1L	1L	1L	1L		
Total Liters Purged	0.5	P.5 ~~0.83~~ 1.5	P.5 ~~1.1~~ 2.5	P.5 ~~1.5~~ 3.5	4.5	5.5	6.5	7.5	8.5L		

Duplicate Sample Collected? (No) Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? (No) Yes _____

Sample Remarks (odors, colors, sediment): clear, no odor, no sediment

Comments _____

Sample(s) Collected By: DY, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/4/11 / 1210 Project Site/Subsite: MOFFETT PHASE

Sample ID: M 551 - UW - B06

Field ID: MCH - 6LA Point Name: 5

Depth to Well Bottom: 54.41 ft. below top of casing (PVC cap)

Depth to Water Level: 12.21 ft. below PVC cap

Depth to Water Level: 13.92 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump Bailer Peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

NA

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1138	1141	1147	1150	1153	1156	1159	1202	1205		
PH	7.37	7.39	7.41	7.41	7.41	7.41	7.42	7.41	7.42	+/- 0.2	
Temperature (°C)	17.70	17.78	17.73	17.76	17.76	17.74	17.74	17.80	17.79	+/- 2.0 °C	
Specific mS/m Conductance (µmhos/cm)	79.8	80.2	79.5	79.8	79.1	79.2	79.1	78.7	78.3	+/- 3%	
Turbidity (NTU)	40	50	84	90	110	140	210	260	>350	+/- 10%	
Dissolved Oxygen (mg/L)	3.9	2.9	2.5	2.3	2.1	2.1	2.0	1.9	1.8	+/- 0.2	
ORP (mV)	240	237	234	232	230	228	227	225	224	+/- 10	
Each Volume Purged (L)	1	1	2	1	1	1	1	1	1		
Total Liters Purged	2	3	5	6	7	8	9	10	11		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): clear, no odor, no sediment

Comments used peristaltic

Sample(s) Collected By: DJ, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/3/11 , 0835 Project Site/Subsite: OPHA

Sample ID: SSI-GW-~~018~~ 007

Field ID: _____ Point Name: MCH-7WA

Depth to Well Bottom: ~~11.59~~ 23.58 ft. below top of casing (PVC cap)

Depth to Water Level: 11.59 ft. below PVC cap

Depth to Water Level: 11.60 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump (Peristaltic)

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

Control Box Settings: Box # NA Refill= NA Discharge= NA Throttle= NA psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	0808	0811	0814	0817	0820	0823	0826	0829	0832		0835
PH	6.42	6.60	6.68	6.73	6.76	6.77	6.78	6.79	6.78	+/- 0.2	6.79
Temperature (°C)	17.22	17.83	18.1	17.98	18.03	18.02	17.68	17.41	17.47	+/- 2.0 °C	17.48
Specific Conductance (µmhos/cm)	0.122	0.124	0.124	0.124	0.124	0.124	0.124	0.123	0.123	+/- 3%	0.123
Turbidity (NTU)	41	49	60	~~62~~ 53	50	60	3943	22	25	+/- 10%	24
Dissolved Oxygen (mg/L)	7.0	2.2	1.7	1.4	1.3	1.2	1.5	1.6	1.6	+/- 0.2	1.6
ORP (mV)	286	273	265	259	255	252	248	246	245	+/- 10	244
Each Volume Purged (L)	0.05	0.5	0.7	0.7	0.5	0.7	0.5	0.5	0.5		
Total Liters Purged	0.05	0.55	1.25	1.95	2.45	3.15	3.65	4.15	4.65		

Duplicate Sample Collected? (No) Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? (No) Yes _____

Sample Remarks (odors, colors, sediment): dark dust in water, though water is clear

Comments _____

Sample(s) Collected By: DY, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 4/3/11 , 0925 Project Site/Subsite: CPHA

Sample ID: SSI-GW-1D8

Field ID: MCH-8LA Point Name:

Depth to Well Bottom: 98.80 ft. below top of casing (PVC cap)

Depth to Water Level: 11.84 ft. below PVC cap

Depth to Water Level: 12.19 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Submersible Pump
Bailer

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well 8 Liters

Purge Calcs

45ft x 9.6ml/ft + 130 = 562

Control Box Settings: Box # MPC-2106 Refill= 11 Discharge= 9.0 Throttle= 100 psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	0903	0906	0909	0912	0915	0918	0921	0924			
PH	7.30	7.33	7.33	7.35	7.34	7.35	7.35	7.35		+/- 0.2	
Temperature (°C)	17.79	17.92	18.03	17.96	18.09	18.06	18.04	18.03		+/- 2.0 °C	
Specific Conductance (µmhos/cm)	93.3	93.0	93.4	92.9	92.9	93.1	92.9	93.0		+/- 3%	
Turbidity (NTU)	150	180	130	100	99	90	80	100		+/- 10%	
Dissolved Oxygen (mg/L)	7.1	6.9	7.5	8.3	7.9	8.8	8.7	8.6		+/- 0.2	
ORP (mV)	224	222	221	219	218	217	216	218		+/- 10	
Each Volume Purged (L)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			
Total Liters Purged	1.5	3	4.5	6.0	7.5	9.0	10.5	12			

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): dark cloudy at first, then we raised the bladder pump a few feet, and cloudiness subsided

Comments _____

Sample(s) Collected By: PG, RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/3/11 , 1250 Project Site/Subsite: Moffett OPHA

Sample ID: SS1 - GW - 009

Field ID: _____ Point Name: MCH-9UA

Depth to Well Bottom: 30.02 ft. below top of casing (PVC cap)

Depth to Water Level: 12.39 ft. below PVC cap

Depth to Water Level: _____ ft below PVC cap prior to sampling

Method of Purging: Bladder Pump ~~Submersible Pump~~ Bailer peristaltic

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters end 12.61

Purge Calcs

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1225	1228	1235	1238	1241	1246	1249	1252	1255		
PH	7.30	7.24	7.23	7.22	7.21	7.21	7.21	7.21	7.21	+/- 0.2	
Temperature (°C)	19.15	19.09	18.95	19.07	18.78	18.86	18.85	18.87	18.83	+/- 2.0 °C	
Specific Conductance (µmhos/cm) mS/m	84.0	~~84.1~~ ~~84.1~~	84.1	84.0	84.0	83.6	83.5	83.2	83.1	+/- 3%	
Turbidity (NTU)	25.0	24	35	41	34 (66 pp)	63	91	99	140	+/- 10%	
Dissolved Oxygen (mg/L)	3.7	2.5	2.3	2.3	2.1	1.9	1.9	1.8	1.8	+/- 0.2	
ORP (mV)	184	180	176	174	170	164	155	152	150	+/- 10	
Each Volume Purged (L)	~~1.0~~ 0.5	1.5	3.5	1.5	1.5	2.5	1.5	1.5	1.5		
Total Liters Purged	1L	2.5	6.0	7.5	9.0	11.5	13.0	14.5	16.0		

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) SS1-D-001 , 1255

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): clear

Comments _____

Sample(s) Collected By: DY RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/4/11 , 1320 Project Site/Subsite: OPHA

Sample ID: SS1-GW-010

Field ID: _____ Point Name: MCH-10LA

Depth to Well Bottom: 45.40 ft. below top of casing (PVC cap)

Depth to Water Level: 5.66 ft. below PVC cap

Depth to Water Level: 5.74 ft below PVC cap prior to sampling

Method of Purging: Bladder Pump Bailer Submersible Pump (Peristaltic)

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well _____ Liters

Purge Calcs

NA

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1301	1304	1307	1310	1313	1316	1319				1320
PH	7.41	7.28	7.24	7.22	7.21	7.21	7.20			+/- 0.2	
Temperature (°C)	18.91	18.66	18.57	18.58	18.49	18.5	18.49			+/- 2.0 °C	
Specific Conductance (~~µmhos/cm~~ S/m)	0.097	0.097	0.097	0.097	0.096	0.096	0.096			+/- 3%	
Turbidity (NTU)	23	20	24	31	36	41	51			+/- 10%	
Dissolved Oxygen (mg/L)	5.5	3.1	2.7	2.5	2.3	2.2	~~2.0~~ 2.1			+/- 0.2	
ORP (mV)	221	216	~~1857~~ 210	204	199	~~18.5~~ 195	193			+/- 10	
Each Volume Purged (L)	1	1	1	1	1	1	1				
Total Liters Purged	1	2	3	4	5	6	7				

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? No Yes _____

Sample Remarks (odors, colors, sediment): clear, no odor

Comments _____

Sample(s) Collected By: DJ RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

Tetra Tech EM Inc.

MONITORING WELL SAMPLING FORM

Date/Time of Sample Collection: 1/3/11 , 1145 Project Site/Subsite: OPHA

Sample ID: SSI-GW-011

Field ID: _____ Point Name: MCH-11UA

Depth to Well Bottom: 20.17 ft. below top of casing (PVC cap)

Depth to Water Level: 5.18 ft. below PVC cap (inside well casing)

Depth to Water Level: 5.67 ft below PVC cap prior to sampling

Purge Calcs

Method of Purging: Bladder Pump Bailer Submersible Pump (peristaltic)

Minimum Purge Volume: Two-inch well _____ Liters

Four-inch well ✓ Liters

Control Box Settings: Box # _____ Refill= _____ Discharge= _____ Throttle= _____ psi

Total Purged _____ Liters Purge Rate goal = 0.5 Liters/Min. Actual purge rate _____ Liters/Min

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed	Initial reading									Stabilization Criteria	Final
Time	1118	1121	1124	1127	1130	1133	1136	1139	1142		1145
PH	7.18	7.13	7.11	7.09	7.08	7.07	7.07	7.07	7.06	+/- 0.2	7.06
Temperature (°C)	17.38	17.41	17.35	17.40	17.33	17.40	17.46	17.53	17.53	+/- 2.0 °C	17.38
Specific Conductance (µmhos/cm)	0.115	0.115	0.114	0.114	0.113	0.113	0.113	0.112	0.112 ~~0.121~~	+/- 3%	0.112
Turbidity (NTU)	3	10	10	25	37	36	70	59	75	+/- 10%	44
Dissolved Oxygen (mg/L)	4.6	3.9	3.6	3.2	3.01	2.8	2.6	2.5	2.3	+/- 0.2	2.3
ORP (mV)	204	204	203	201	198	196	193	192	190	+/- 10	189
Each Volume Purged (L)	0.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5		1.0
Total Liters Purged	0.5	2.0	3.5	5	6.5	8.0	9.5	11	12.5		13.5

Duplicate Sample Collected? (No) Yes (Sample ID of Duplicate) _____

MS/MSD Sample Collected? (No) Yes _____

Sample Remarks (odors, colors, sediment): clear

Comments _____

Sample(s) Collected By: DY RJ

Well Volume purge Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters.

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA Date: 1-12-11

Name (print)	Company	Time In	Time Out
Doug Young	Precision Locating	0650	
Dayna Yocum	TTEMI		

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: ~~1/17/11~~ OPHA (Moffett) Date: 1/17/11

Name (print)	Company	Time In	Time Out
Dayna Yocum	TTEMI	0715	~~0~~1615
Steve Elliott	AIS	0715	1615
John Rogie	California Push Technologies	↓	↓
Gerald Droze	"	↓	↓
Eric Garcia	ASC Tech Services	↓	↓
David Bogey	RSI Drilling	↓	1130

Comments:

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TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA (Moffett) Date: 1/18/11

Name (print)	Company	Time In	Time Out
Dayna Yocum	TTEMI	0645	1745
Steve Elliott	AIS	0645	1745
John Rogie	CPT	0645	1800
Gerald Doze	"	0645	1800
Eric Garcia	ASC Technologies	065	1800
[redacted]	[redacted]	[redacted]	[redacted]

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA/Moffett Date: 1-19-11

Name (print)	Company	Time In	Time Out
Steve Elliott	ATS	0645	1700
John Rogue	CPT	0645	1630
Gerald Droze	CPT	0645	1630
Eric Gorera	ASC	0645	1700

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA / Moffett Date: 1-20-11

Name (print)	Company	Time In	Time Out
Steve Elliott	AIS	0645	1710
Gerald Droze	CPT	0650	1710
John Regie	CPT	0650	1710
Eric Garcia	ASC	0650	1710

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA / Moffett Date: 1-21-11

Name (print)	Company	Time In	Time Out
Steve Elliott	ARS	0645	1610
Eve Garcia	ASC	0645	1600
Gerald Droze	CPT	0650	1610
John Rogie	CPT	0650	1610
Ernesto Estrella	RSI	0645	0825
~~[illegible]~~			
James Crowley	Bay Area Landscape	1030	1125
Evernesto Estrella	RSI	1040	1125
Floyd Reed	U.S. Army Res.	1115	1120

Comments:

Discussed rut issue w/ F. Reed. He is most concerned about deepest ruts created weeks ago. We need to re-seed ASAP to allow grass to grow

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPAA / Moffett Date: 1-24-11

Name (print)	Company	Time In	Time Out
Steve Elliott	ARS	0645	1710
Eric Garcia	ASC	0645	1710
Gerald Droze	CPT	0645	1700
John Rogie	CPT	0645	1700

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA / Moffett Date: 1-25-11

Name (print)	Company	Time In	Time Out
Steve Elliott	AIS	0640	1715
Eric Garcia	ASC	0645	1720
Gerald Droze	CPT	0700	1715
John Rogie	CPT	0700	1715
Dwayne ~~Yorkum~~ Yocum	TT	0700	1500
Doug Young	Precision Locating	0830	1500

Comments:

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TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA / Moffett Date: 1-26-11

Name (print)	Company	Time In	Time Out
Steve Elliott	AIS	0645	1610
Eric Garcia	ASC	0650	1555
John Regie	CPT	0715	1610
Gerald Droze	CPT	0715	1610

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPHA / Moffett Date: 1-27-11

Name (print)	Company	Time In	Time Out
Steve Elliott	ACS	0645	1705
Eric Garcia	ASC	0645	1650
John Rogie	CPT	0718	1705
Gerald Droze	CPT	0718	1705

Comments:

5c-P4
5b P6

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TETRA TECH, INC.

DAILY SITE LOG

Site Name: OPIHA / Moffett Date: 1-28-11

Name (print)	Company	Time In	Time Out
Doug Young	Precision	0640	0815
Steve Elliott	AIS	0645	1630
Eric Garza	ASC	0650	1630
Dayna Yocum	TT	0650	0840
John Rogic	CPT	0715	1605
Gerald Droze	CPT	0715	1605

Comments:

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1/17/11
Daily Safety & Coordination Meeting Completed: X Yes ___ No	**Day:** Mon **Day #:** 1
Weather: foggy, then sunny	**Wind:** none
Temperature: 50°, then 65°	**Humidity:**

Personnel on Site (AIS, Tt, Subcontractors)

Steve Elliott (AIS), Dayna Yocum (TT), John Rosic (California Push Technologies (CPT), Gerald Vaze (CPT) Eric Garcia (ASC Tech) David Bosq (CPSI)

Subcontractors & Equipment on Site

CPT Rig, MIP Van

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

2a (0), 4(0), 3(550)

Work Performed (Including Sampling)

Quality Control Activities

reviewed MIP response + compared to groundwater levels + historical CPT logs.

Health and Safety Levels and Activities

D

Problems Encountered / Corrective Action Taken

need to reevaluate ~~cut~~ response evaluation criteria #2 or #3

Deviations from Field Work Plan

none

Planned Work for Tomorrow

more CPT/MIP pushes. ~~[illegible]~~ locations will be selected based on review of data.

Distribution: **Daily – TOM** **Weekly - USACE**	**Submitted By:** Signature ____ Date ____

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-18-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ____ No	**Day:** TUE **Day #:** 2
Weather: cool, ~~extra~~, foggy in morn	**Wind:** calm
Temperature: 44 → 66°	**Humidity:** ~~High~~ 45-93%

Personnel on Site (AIS, Tt, Subcontractors)

(AIS) Steve Elliott, Dayna Yonkum (Tt), John Rogie (CPT), Gerald Droze (CPT), Eric Garcia (ASC)

Subcontractors & Equipment on Site

CPT, MIP

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

~~A~~ LOC 2B → 1 → 5C — no decision steps

Work Performed (Including Sampling)

CPT / MIP

Quality Control Activities

N/A

Health and Safety Levels and Activities

mod level D

Problems Encountered / Corrective Action Taken

tracks on Reserve landscaping

Deviations from Field Work Plan slight:

1 location per area of concern rather than completing an entire LOC each time

Planned Work for Tomorrow

same

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Steve Elliott — Signature

1-18-11 — Date

Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-19-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ____ No	**Day:** WED **Day #:** 3
Weather: cool, clear, foggy in morn	**Wind:** calm
Temperature: 46 → 64'	**Humidity:** 50 - 89 %

Personnel on Site (AIS, Tt, Subcontractors)

Steve Elliott (AIS); Eric Garcia (ASC); John Rogue & Gerald Droze (CPT)

Subcontractors & Equipment on Site

CPT (CPT) & MIP (ASC)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

LOC 1 - P1 UA to LOC 2b - P1 UA to LOC 2a - P1 UA to LOC 5b - ∅ LA

Work Performed (Including Sampling)

CPT/MIP

Quality Control Activities

N/A

Health and Safety Levels and Activities

Mod Level D

Problems Encountered / Corrective Action Taken

None

Deviations from Field Work Plan

hold every 6" from 5 to 15'

Planned Work for Tomorrow

Same

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Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-20-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** Thurs. **Day #:** 4
Weather: clear/cloud warm, clear	**Wind:** calm
Temperature: 51 → 65	**Humidity:** 42 → 48

Personnel on Site (AIS, Tt, Subcontractors)

Steve Elliott (AIS), Gerald Draze & John Rogue (CPT), Eric Garcia (ASE)

Subcontractors & Equipment on Site

CPT (CPT), ASE (MIP)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

LOC 5a-Ø to 5b-P1 to 5a-P1 to 3-Ø-UA

Work Performed (Including Sampling)

CPT/MIP

Quality Control Activities

N/A

Health and Safety Levels and Activities

Level D, tailgate mtg

Problems Encountered / Corrective Action Taken

None

Deviations from Field Work Plan

None

Planned Work for Tomorrow

same

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Signature: [signature]

Date: 1-20-11

Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-21-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** FRI **Day #:** 5
Weather: Cool & clear	**Wind:** calm
Temperature: 44-68°F	**Humidity:** 42-82%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Gerald Broze & John Rogue (CPT), Eric Garcia (ASC), Ernesto Estrella (RSI)

Subcontractors & Equipment on Site
CPT (CPT), MIP (ASC), plastic planks ~~Plywood~~ (RSI)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
6b-Ø to 5c-P1; two refusals @ 12", so go to 6b-P1

Work Performed (Including Sampling)
CPT / MIP

Quality Control Activities
—

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
Soft soil on USAR property - used panels to prevent rutting

Deviations from Field Work Plan
—

Planned Work for Tomorrow
Day off

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Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)

Date: 1-24-11

Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No

Day: Monday

Day #: 60

Weather: Cool; clear, partly cloudy in PM

Wind: calm

Temperature: 44-66°F

Humidity: 44-71%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Eric Garcia (ASC), Gerald Droze & John Rogge (CPT)

Subcontractors & Equipment on Site
Eric Garcia (ASC), John Rogge & Gerald Droze (CPT)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
P3 in WP figure
6b-P4-LA (similar to pt. Ø & not source area) to LOC3-P2-UA (similar to pt. P1 aka SS Ø & not source) to LOC 5c-P2-LA to LOC 2b-P2-UA
↳ (similar to pt Ø & not source)

Work Performed (Including Sampling)
MIP/CPT

Quality Control Activities
PID readings on 5C-P2-LA showing noise in 10' intervals - stop & fix connections - choose not to re-push that interval since ECD shows

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
None

Deviations from Field Work Plan
LOC3-P2-UA shown as LOC3-P3-UA on WP figure

Planned Work for Tomorrow
MIP/CPT

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Signature: [signature]

Date: 1-24-11

Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-25-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** Tuesday **Day #:** 7
Weather: cool & clear	**Wind:** calm
Temperature: 45-70°F	**Humidity:** 32-83%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Eric Carrera (ASC), John Rogie & Gerald Droze (CPT)

Subcontractors & Equipment on Site
CPT (CPT) & MIP (ASC)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
LO3-P3-cA to LOC6b-S1-LA to 5a-S1-LA

Work Performed (Including Sampling)
MIP/CPT

Quality Control Activities
As always, run response testing on TCE standards between holes

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
MIP line sized after LOC 6b-S1-LA. Fixed, but took a little over 2 hours (~2.25 hrs downtime)

Deviations from Field Work Plan
~~[illegible]~~
None

Planned Work for Tomorrow
MIP/CPT

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Signature: [signature] Date: 1-25-11

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-26-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** Wed **Day #:** 8
Weather: Clear & cool	**Wind:** calm
Temperature: 46-69°F	**Humidity:** 40-79%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Erre Garcia (ASC), John Rogue & Gerald Droze (CPT)

Subcontractors & Equipment on Site
CPT (CPT) & MIP (ASC)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
LOC4-02-UA (closer to well then LOC4-0-UA) to LOC4-P1-UA to LOC 5b-P4-LA

Work Performed (Including Sampling)
MIP/CPT

Quality Control Activities

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
Depth gauge malfunctioned (1.25 hrs down time) - Fix & splice pre & post problem results together

Deviations from Field Work Plan
Re-did LOC4-0 as LOC4-02

Planned Work for Tomorrow
MIP/CPT

Distribution: **Daily – TOM** **Weekly - USACE**	**Submitted By:** Steve Elliott — Signature 1-26-11 — Date

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Quality Control Report

(Page 1 of 1)

Project Name: Orion Park Housing Project (OPHA)	**Date:** ~~Tuesday~~ 1-27-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ____ No	**Day:** Thursday **Day #:** 9
Weather: Cool & clear	**Wind:** Calm
Temperature: 45-67°	**Humidity:** 42-80%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Eric Garcia (ASC), John Rogie & Gerald Dreze (CPT)

Subcontractors & Equipment on Site
CPT (CPT) & MIP (ASC)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
LOC 6b-S2-LA to LOC 5a-SS2-LA (although shallow) to LOC 5a-SS3-LA to LOC 5c-P5-LA

Work Performed (Including Sampling)
MIP/CPT

Quality Control Activities
/

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
ECD noise between 5a-SS3 & 5c-P5 - clean lines

Deviations from Field Work Plan
None, other than not necessarily pushing all LA locations to 65'

Planned Work for Tomorrow
MIP/CPT

Distribution: **Daily – TOM** **Weekly - USACE**	**Submitted By:** Signature: [signature] Date: 1-27-11

Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 1-28-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** FRI **Day #:** 10
Weather: Foggy & cool	**Wind:** calm
Temperature: 48-54°	**Humidity:** 77-100%

Personnel on Site (AIS, Tt, Subcontractors)
Doug Young (Precision), Steve Elliott (AIS), Dayna Yocum (Tt), Eric Garcia (ASC), John Rogive & Gerald Droze (CPT)

Subcontractors & Equipment on Site
Geophysical locating (Precision), CPT (CPT), MIP (ASC)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
LOC5b-P6-LA to LOC5e-P4-LA to LOC3-P4-UA (25')

Work Performed (Including Sampling)
MIP/CPT

Quality Control Activities
Standard MIP protocols

Health and Safety Levels and Activities
Level D

Problems Encountered / Corrective Action Taken
Had to re-push 30-40' on 55-P6 since the ECD scale was incorrectly set
Hole in line @ 50' @ 5c-P4 - pull out, blow out line and patch
Thermocouple shorting - probe heating but temp reading low - unable to advance LOC3-P5-UA

Deviations from Field Work Plan
N/A

Planned Work for Tomorrow
This phase completed

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Signature: [signature]

Date: 1-28-11

TETRA TECH, INC.

DAILY SITE LOG

Site Name: Moffett / OPHA Date: 2-14-11

Name (print)	Company	Time In	Time Out
Steve Elliott	ALS	0720	1635
Doug Young	Precision	0730	1100
Dayna Yocum	Tt	0805	1635
Jose Carrauza	RSI	0730	1635
Nery Carrauza	RSI	0730	1685

Comments:

TETRA TECH, INC.

DAILY SITE LOG

Site Name: Moffett Date: 2-15-11

Name (print)	Company	Time In	Time Out
Steve Elliott	HLS	0730	1645
Rebecca Johnson	Tt	0700	1600
Jose Carranza	RSI	0705	1645
Nery Carranza	RSI	0705	1645

Comments:

_____

_____

_____

TETRA TECH, INC.

DAILY SITE LOG

Site Name: Moffett Field / OPHA Date: 2-16-11

Name (print)	Company	Time In	Time Out
Nery Carranza	RSI	0715	1450
Jose Carranza	RSI	0715	1450
Rebecca Johnson	TT	0730	1400
Steve Elliott	AIS	0730	1450

Comments:

Tetra Tech EM Inc.

American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)

Date: 2-14-11

Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No

Day: MON

Day #: 11

Weather: overcast, slight sprinkle

Wind: ~10 mph SE

Temperature: 48.9 – 61°F

Humidity: 64 – 86 %

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Dayna Yocum (TT), Doug Young (Precision)

Subcontractors & Equipment on Site
RSI Drilling (Geoprobe), Precision (Subsurface clearance tools)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
start @ SSI-HP-001 (LOC 6b-DP-05-LA), SSI-HP-002, and SSI-HP-003 (all LOC 6b step-outs), end w/ LOC 3-P4-UA water sample

Work Performed (Including Sampling)
Hydropunch
Geophysical clearance

Quality Control Activities
calibrate PID

Health and Safety Levels and Activities
Level D, measure breathing zone (Ø ppm)

Problems Encountered / Corrective Action Taken
wet landscaping / used wheel mats – no damage / SSI-HP-003 very silty & fizzing

Deviations from Field Work Plan

Planned Work for Tomorrow
Direct Push / hydropunch

Distribution:
Daily – TOM
Weekly - USACE

Submitted By:

Signature

2/14/11
Date

Tetra Tech EM Inc. | American Integrated Services, Inc.

Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 2-15-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ____ No	**Day:** TUES **Day #:** 12
Weather: overcast	**Wind:** ~10mph SE
Temperature: 54-60 °F	**Humidity:** 47-72%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Rebecca Johnson (TT), Nery & Jose Carrauza (RSI)

Subcontractors & Equipment on Site
RSI (DPT)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes

Work Performed (Including Sampling)
Log some soil @ Locations 7 & 10 (UA & LA), collect two HP samples (SSE-HP-004 & -005) @ LOC 3-Ø-UA, collect HP @ SS1-HP-006 (area 9)

Quality Control Activities
calibrate PID

Health and Safety Levels and Activities
Level D, monitor breathing zone (Ø ppm)

Problems Encountered / Corrective Action Taken

Deviations from Field Work Plan

Planned Work for Tomorrow
HPs & soil sample

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Quality Control Report

Project Name: Orion Park Housing Project (OPHA)	**Date:** 2-16-11
Daily Safety & Coordination Meeting Completed: ✓ Yes ___ No	**Day:** WED **Day #:** 13
Weather: overcast	**Wind:** calm
Temperature: 50 - 54°F	**Humidity:** 47-96%

Personnel on Site (AIS, Tt, Subcontractors)
Steve Elliott (AIS), Rebecca Johnson (Tt), Jose ? Nery Carranza (RSI)

Subcontractors & Equipment on Site
DPT (RSI)

LOC # and Decision Steps Taken (See Figures A-14 to A-16), Notes
collect hydropunches @ areas 7 & 10, respectively. Collect soil sample @ LOCA-02-LA

Work Performed (Including Sampling)
hydropunch & soil sampling

Quality Control Activities
calibrate PID, Duplicate collected @ SSI-HP-008 (SSI-D-002)

Health and Safety Levels and Activities
Level D ; monitor breathing zone (0 ppm)

Problems Encountered / Corrective Action Taken
SSI-HP-008 very silty & fizzy (HCl reaction w/ sediment)

Deviations from Field Work Plan

Planned Work for Tomorrow
None.

Distribution: Daily – TOM Weekly - USACE	**Submitted By:** Steve Elliott Signature 2/16/11 Date

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OPHA
Project Name: Moffett

Boring Number: SSI-HP-003	Date Started: 2/14/11
Drilling Method: (*Circle one*) HSA Continuous Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: 2/14/11
	Logged By: Steve Elliott
Outer Diameter of Boring: 2"	Drilling Subcontractor: RS1 Drilling
Inner Diameter of Well Casing: 3/4" (temp well)	Driller: Jose & Nery Carranza
Depth to Water (feet bgs): NA'	Location Sketch:

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Temporary Well Construction	OVM (ppm)
						Hand auger to 5'			
	4								
						5-5.5': slough			
				N/A	N/A	5.5-7.5': LEAN CLAY (CL): 60% lean, plastic clay, 40% silt. olive gray (5Y 4/1) with yellowish gray (5Y 8/1) mottling. moist	CL	3/4" casing, 0.010" slot	5.4
	8								6.3
				N/A	N/A	7.5-11': LEAN CLAY (CL): 60% lean, plastic clay, 40% silt, trace subangular fine sand, trace subrounded gravel to 9 mm; mottled various shades of gray and brown. moist; small, discontinuous lenses of fine sand	SM		9.7
	12					11-12': SILTY SAND (SM); 75% subangular fine sand, 20% silt, 5% slightly plastic clay, light olive gray (5Y 5/2); wet			
	16								

@12': predominately lean clay

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OPHA
Project Name: Moffett

Boring Number: SSI-HP-007 & -008	Date Started: 2/15/11
Drilling Method: (*Circle one*) HSA Continuous Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: 2/16/11
	Logged By: Steve Elliott
Outer Diameter of Boring: 2"	Drilling Subcontractor: RSI Drilling
Inner Diameter of Well Casing: 3/4" (temp well)	Driller: Jose & Nery Carranza
Depth to Water (feet bgs):	Location Sketch:

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Temporary Well Construction	OVM (ppm)
						Hand auger to 5'			
						5-11': LEAN CLAY (CL): 70% very plastic lean clay, 30% silt; olive gray (5Y 4/1); moist			
	4								
				N/A	N/A	11-11.5': SILTY SAND (SM): 75% subangular fine sand, trace coarse sand, 25% silt; grayish olive (10Y 4/2); non-plastic; wet			3.6
	8					11.5-12': same as 5-11'	CL		
				N/A	N/A	13-16': WELL-GRADED SAND (SW): 90% subangular fine to coarse sand, 5% subrounded gravel to 10 mm; 5% silt; grayish brown (5YR 3/2); moist	SM CL	3/4" casing, 0.010" slots	4.5
	12								
				N/A	N/A		SW		
						16'-36' not logged			
	16								

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OPHA
Project Name: Moffet

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. utility type dia	Description	USCS Soil Symbol	Temporary Well Construction	OVM (ppm)
						16' → 36' not logged			
	36			N/A	N/A	36-39': SILT(ML): 55% silt, 40% lean clay, 5% subrounded, fine sand, dusky yellow (5Y 6/4); poorly graded, slightly plastic, wet.	ML	3/4" casing, 0.010" slots	0.2
	40					39-40': SILTY SAND (SM): 70% subrounded fine sand, 30% silt; moderate olive brown (5Y 4/4); saturated.	SM		
				N/A	N/A	40-42': SILT(ML): see 36-39', but slightly darker	ML		
	44					42-43.5': SILTY SAND (SM): 55% subangular fine sand, 40% silt; 5% lean clay, trace subangular gravel to 10mm; slightly plastic; moist.	SM		
						43.5-44': SILT(ML): see 40-42'	ML		

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OPHA
Project Name: Moffett

Boring Number: SSI-HP-009	Date Started: 2/16/11
Drilling Method: (*Circle one*) HSA Continuous Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: 2/16/11
	Logged By: Steve Elliott
Outer Diameter of Boring: 2"	Drilling Subcontractor: RSI Drilling
Inner Diameter of Well Casing: 3/4" (temp well)	Driller: Jose & Jerry Carranza
Depth to Water (feet bgs):	Location Sketch:

Next to MCH-50A

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
						Hand auger to 5'			
						9-20': same as MCH-50A log except: 15.5-17.5': SILTY SAND (SM): 70% subangular fine sand with trace coarse sand, 40% silt, grayish black (N2); saturated			
	8								
				N/A	N/A		CL		NM
	12								
							SM	N/A	
				N/A	N/A		CL		
							SM		NM
							ML		
	16						SM		
				N/A	N/A		ML		NM
	20						SW-SM		

20-37' not logged

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OTHA
Project Name: Moffett

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. utility type dia	Description	USCS Soil Symbol	Temporary Well Construction	OVM (ppm)
						20-37' not logged			
		36				37-38.5': POORLY GRADED SAND (SP): 95% subrounded to subangular fine sand, 5% silt; dark greenish gray (5GY 4/1); saturated			
				N/A	N/A		SP		NM
		40				38.5-42': SILT (ML): Mostly clayey silt, contains gravelly lenses; moist to wet	ML	3/4" casing, 0.010" slots	
				N/A	N/A	42-43.5': SILTY SAND (SM): 75% subangular fine sand with trace coarse sand, 25% silt; mottled moderate olive brown (5Y 4/4) and grayish olive (10Y 4/2); moist	SM		NM
		44				43.5-44': SILT (ML): clayey silt	ML		

TETRA TECH EM INC.

SOIL BORING AND WELL INSTALLATION AND VISUAL CLASSIFICATION LOG

DO:
Bldg./Site: OPHA
Project Name: Moffett

Boring Number: LOC4-DP-04	Date Started: 2/16/11
Drilling Method: (*Circle one*) HSA Continuous Core/Direct-Push/Hand Auger/ Air Rotary/Mud Rotary/Dual Tube Percussion/Sonic/Vacuum	Date Completed: 2/16/11
	Logged By: Steve Elliott
Outer Diameter of Boring: 2"	Drilling Subcontractor: RSI Drilling
Inner Diameter of Well Casing: N/A	Driller: Jose & Henry Carranza
Depth to Water (feet bgs):	Location Sketch:

Time	Depth (feet bgs)	Drive Interval	Recovered Interval	Sample ID	Blow Count (per 6 inches) / V.B. Utility Type Diameter	Description	USCS Soil Symbol	Well Construction	OVM (ppm)
						0-5' not logged			
	4					5-8': LEAN CLAY (CL): 80% clay, 20% silt, mottled olive gray (5Y 3/2) and moderate olive brown (5Y 4/4); slightly plastic; dry to damp			6.3
	8			N/A	N/A	8-11': LEAN CLAY (CL): 80% clay, 20% silt, olive gray (5Y 3/2); plastic; damp to moist; contains roots.			
				SSI-SS-001 (10.7-11.2')		11-12': SILT (ML): 75% silt, 25% lean clay; trace subangular fine sand; light olive gray (5Y 5/2); plastic, moist	CL	N/A	8.4
	12					12-14': SILT WITH SAND (ML): 65% silt 20% lean clay, 15% subrounded fine sand; moderate olive brown (5Y 4/4) with orange oxidation; plastic, moist.	ML		5.1
				N/A	N/A	14-15': POORLY GRADED SAND WITH SILT (SP-SM): 90% subangular fine sand; 10% silt, olive gray (5Y 3/2); wet to saturated	SP-SM		7.0 10.9
	16								

Tetra Tech EM Inc.
Oakland Office

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Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9213

Lab PO#:	tofdlaw
Lab:	EMAX
Project name:	Moffett OPHA
TtEMI technical contact:	Sara Woolley
Field samplers:	Dayna Kraus, Steve Elliott, Rebecca Johnson
Project (CTO) number:	1036152
TtEMI project manager:	Kevin Bicknell
Field samplers' signatures:	[signature]

Preservative Added: 1

Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA 8260	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
SSI-HP-001	LOC66-DP-05 / 12-13'	2/14/11	1015	Water		4							X						
SSI-TB-001	N/A	↓	—	↓		3													
SSI-HP-002	LOC66-DP-06 / 12-13'	↓	1235	↓		4													
SSI-HP-003	LOC66-DP-12 / 10-11'	↓	1500	↓		4													
* SSI-HP-004	LOC3-DP-01 / 15-16'	2/15/11	1300	↓	X	10													
SSI-HP-005	LOC3-DP-01 / 17-18'	↓	1345	↓		4													
SSI-HP-006	LOC66-DP-09 / 43.5-44.5'	↓	1540	↓		4													
SSI-HP-007	LOC66-DP-07 / 13-14'	2/16/11	0810	↓		4													
SSI-HP-008	LOC66-DP-07 / 42-43'	↓	0900	↓		4													
SSI-D-002	0900 N/A DUP	↓	0910	↓		4													
SSI-HP-009	LOC66-DP-10 / 42-43'	↓	1155	↓		4													
SSI-SS-001	~~LOC4-02~~ LOC4-DP-04 / 10.7-11.2 ~~7.8~~	↓	1310	Soil					1			6	X				XY		

LOC66-DP-07

	Name (print)	Company Name	Date	Time
Relinquished by: [signature]	Steve Elliott	AIS	2-16-11	1330
Received by: [signature]	Rebecca Johnson	Tetra Tech	2-16-11	1330
Relinquished by: [signature]	Rebecca Johnson	Tt EMI	2/16/11	1700
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:
* MS/MSD on SSI-HP-004

Fed Ex #:

WHITE-Laboratory Copy YELLOW-Sample Tracker PINK-File Copy

Tetra Tech EM Inc.
Oakland Office

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Oakland, CA 94612
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510.433.0830 Fax

Chain of Custody Record No. 9402

Lab PO#: to follow	Lab: EMAX
Project name: Moffett OPHA	TtEMI technical contact: Sara Woolley
Project (CTO) number: 10361521	TtEMI project manager: Kevin Bricknell
	Field samplers: Rebecca Johnson
	Field samplers' signatures: Rebecca

Preservative Added: HCl

Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly	Encore	VOA	SVOA	Pest	Metals	TPH Purgeables	TPH Extractables	PCB
SS1-HP-0004a	~~LOC 3(2)~~ LOC3-DP-03 15-16'	2/14/11	1555	H_2O		4							X						

	Name (print)	Company Name	Date	Time
Relinquished by: Rebecca	Rebecca Johnson	Tt EMI	2/16/11	1700
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:

Fed Ex #:

WHITE-Laboratory Copy YELLOW-Sample Tracker PINK-File Copy

Tetra Tech EM Inc.
Oakland Office

1999 Harrison Street, Suite 500
Oakland, CA 94612
510.302.6300 Phone
510.433.0830 Fax

Chain of Custody Record No. 9252

Lab PO#: through American Integrated Services

Lab: EMAX

Project name: OPHA (Moffett)

TtEMI technical contact: Sara Woolley

Field samplers: Dayna Yocum

Project (CTO) number: 103613321

TtEMI project manager: Kevin Bicknell

Field samplers' signatures: [signature]

Preservative Added: HCl (water), none; HNO3 (water), None

No./Container Types / Analysis Required

Sample ID	Point ID/Depth	Date	Time	Matrix	MS / MSD	40 ml VOA (HCl)	1 liter Amber	500 ml Poly	Sleeve	Glass Jar	250 ml Poly (HNO3)	Encore	VOA 8260	SVOA	Pest	Metals 6010/7000	TPH Purgeables 8015M	TPH Extractables 8015M	PCB
~~IB~~ IDW01	~~I~~ IDW - water composite	3/8/11	1200	water		6	2				1		X			X	X	X	
IDW02	IDW - soil composite	3/8/11	1200	Soil						*		6	X			X	X	X	

	Name (print)	Company Name	Date	Time
Relinquished by: [signature]	Dayna Yocum	TtEMI	3/8/11	1530
Received by:				
Relinquished by:				
Received by:				
Relinquished by:				
Received by:				

Turnaround time/remarks:

*analyze for TPHg, TPHd, TPHmo

Fed Ex #:

WHITE-Laboratory Copy YELLOW-Sample Tracker PINK-File Copy

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6060	0302936

GENERATOR

5. Generator's Name and Mailing Address
Headquarters, U.S. Army Garrison Fort Hunter Liggett
Building 238, California Avenue Fort Hunter Liggett, CA 93926
Generator's Phone: **Attn: Paul Kot**

Generator's Site Address (if different than mailing address)
Former Orion Park Housing Area - Moffett Field
Intersection of Stevens Way & Orion Park
Mountain View, CA

6. Transporter 1 Company Name: **American Integrated Services, Inc.** — U.S. EPA ID Number: **CAR000148338**

7. Transporter 2 Company Name: ENV Environmental — U.S. EPA ID Number: CAR000119382

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 16th Street
Facility's Phone: **Long Beach, CA. 90813 562-432-5445**
U.S. EPA ID Number: **CAD028409019**

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
	1. **Non-Hazardous Waste Solid, (Soil)**	001	DM	500	P	
	2.					
	3.					
	4.					

13. Special Handling Instructions and Additional Information

1X55 GAL DM

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatcher).

D52506

Profile #: 82542
Project #: 30112

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: PAUL KOT — Signature: Paul Kot — Month 07 Day 19 Year 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Rigo Valencia — Signature: [signature] — Month 08 Day 01 Year 11
Transporter 2 Printed/Typed Name: Lisa M Robles — Signature: [signature] — Month 8 Day 5 Year 11

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) — Month Day Year

H141

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Laura Christensen — Signature: [signature] — Month 08 Day 09 Year 11

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	NOT REQUIRED	1	888-423-6060	0302937

5. Generator's Name and Mailing Address
Headquarters, U.S. Army Garrison Fort Hunter Liggett
Building 238, California Avenue Fort Hunter Liggett, CA 93928
Generator's Phone: **Attn: Paul Kot**

Generator's Site Address (if different than mailing address)
Former Orion Park Housing Area - Moffett Field
Intersection of Stevens Way & Orion Park
Mountain View, CA

6. Transporter 1 Company Name: **American Integrated Services, Inc.** — U.S. EPA ID Number: **CAR000148338**

7. Transporter 2 Company Name: ENV Environmental — U.S. EPA ID Number: CAR000179382

8. Designated Facility Name and Site Address
Crosby & Overton, Inc.
1630 W. 16th Street
Long Beach, CA. 90813 562-432-5445
Facility's Phone:
U.S. EPA ID Number: **CAD028409019**

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	**Non-Hazardous Waste Liquid**	002	DM	85	G
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

Wear protective equipment while handling. Weights or volumes are approximate. 24 hour emergency number (888) 423-6060 (AIS Dispatcher).

D52537 1X55 GAL DM 1X30 GAL DM

Profile #: 27578
Project #: 30112

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: PAUL KOT — Signature: [signature] — Month 07 Day 19 Year 11

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Ryo Valencia — Signature: [signature] — Month 08 Day 01 Year 11

Transporter 2 Printed/Typed Name: Lee M Roblu — Signature: [signature] — Month 8 Day 5 Year 11

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

H135

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Laura Christensen — Signature: [signature] — Month 08 Day 09 Year 11

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

From: support@usan.org
Sent: Wednesday, January 12, 2011 4:59 PM
To: Bricknell, Kevin
Subject: USAN 2011/01/12 #00000 0013761-000 NORM NEW

00000 USAN 01/12/11 16:58:16 0013761 NORMAL NOTICE

Message Number: 0013761 Received by USAN at 16:32 on 01/12/11 by TJH

Work Begins: 01/14/11 at 17:00 Notice: 020 hrs Priority: 2
Night Work: N Weekend Work: N

Expires: 02/09/11 at 23:59 Update By: 02/07/11 at 16:59

Field Meet Requested - Please Call and Confirm

Caller: KEVIN BRICKNELL
Company: TETRATECH
Address: 1999 HARRISON ST STE 500
City: OAKLAND State: CA Zip: 94612
Business Tel: 510-302-6300 Fax:
Email Address: KEVIN.BRICKNELL@TETRATECH.COM

Nature of Work: VERTICAL BORING FOR CPT
Done for: ARMY Explosives: N
Foreman: STEVE ELLIOTT
Field Tel: Cell Tel: 925-323-7498
Area Premarked: Y Premark Method: STAKES, OTHER
Permit Type: COUNTY Number: UNKNOWN
Vac / Pwr Equip Use In The Approx Location Of Member Facilities Requested: N
Excavation Enters Into Street Or Sidewalk Area: N

Location:

AREA BOUNDED BY: US RT 101 ON S, MOFFETT BLVD/R.T. JONES RD ON E, THE STEVENS CREEK ON W, 200' N/O KING RD (IF EXT) ON N (THE STEVENS CREEK IS LOC APP 1500' W/O MOFFETT BLVD) (NO STS IN AREA & THERE ARE APP 55 TO 60 LOCS- PER CALLER)

Place: MOUNTAIN VIEW County: SANTA CLARA State: CA

Long/Lat Long: -122.06948 Lat: 37.406845 Long: -122.062807 Lat: 37.416526

Comments:
TO ALL: CUST REQUESTS FIELD MEET ASAP! PLEASE CONTACT DANA YOCUM AT 805-452-2822 TO SET MEETING UP ASAP, THANK YOU

Sent to:

CTYMTN = CITY MOUNTAIN VIEW	CTYSUN = CITY SUNNYVALE
COMPAL = COMCAST-PALO ALTO	MCIWSA = MCI WORLDCOM
PBTPAL = PACIFIC BELL PALO ALTO	PGECUP = PGE DISTR CUPERTINO
SCLVLY = SANTA CLARA VALLEY WTR	STCWTR = SCHLUMBERGER TECH CORP
TERDEX = TERRADEX INC.	XOCOMM = XO COMM SVCS DBA XO COMM

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accurate or meaningful facts. Further, the Data should not be relied-upon by the recipient for any purposes. USA North does not assume, and expressly disclaims, any and all liability for any damages incurred directly or indirectly, whether foreseeable or not, as a result of errors, omissions or discrepancies contained within or concerning the Data.

From: Notify@pge.com
Sent: Thursday, January 13, 2011 12:30 PM
To: Bricknell, Kevin
Subject: PG&E Response to a USA Locate Request

==========

To: TETRATECH Attn: KEVIN BRICKNELL
Voice: 5103026300 Fax:
Re: PG&E Response to a USA Locate Request

This is a message from Pacific Gas & Electric Company replying to your request to mark our facilities.

==========

Ticket: 0013761
County: SANTA CLARA Place: MOUNTAIN VIEW
Address:

PGECUP:
P G & E has determined that there is no conflict with our facilities at this
excavation site.

==========

Please call USA at 8-1-1 if you have questions about white paint or the USA process. If you have a question for PG&E, please call 1-800-743-5000.

==========

This message was generated by an automated system. Please do not reply to this email.

11/18/10

Carolyn Ferlic & Dayna Yocum collected groundwater levels at vector control yard.

1/3/11

10 Rebecca Johnson + Daynra Yocum arrived at OPHA.
15 Hi Stallgate
25 Drove to well MCH-7UA + MCH-8LA (paired wells)
collected gw sample at MCH-7UA (peristaltic pump)
collected gw sample at MCH-8LA (bladder pump)
35 ~~Drove to well~~ sample IDs: SSI-GW-007 (7UA)
25 SSI-GW-008 (8LA) MS/MSD
40 drove to attempt to collect sample at MCH-10LA.
got stuck in muddy grass, attempted to remove car from mud.
~~030~~ called AAA for a tow.
~~145~~ ~~sampled~~ Daynra used her personal car - set up gw equip @ MCH-11UA
30 AAA removed car from mud.
45 collected sample from MCH-11UA ID: SSI-GW-011
moved to ~~for~~ well MCH-9UA - could not drive to well - carried equipment to well.
20 collected sample at MCH-9UA ID: SSI-GW-009
1255 collected duplicate sample at MCH-9UA ID: SSI-D-001 ~~1255~~
310 drove to location MCH-5UA. carried equipment to well because we did not want to get stuck in mud.
1410 collected sample at MCH-5UA - ID: SSI-GW-005
420 moved to location MCH-4LA - parked next to well, used bladder
1505 collected sample SSI-GW-004

1/4/11

0715 arrived at well MCH-3UA.
0725 conducted H+S Tailgate, set up equipment
0750 began collecting measurements
0820 collected sample at MCH-3UA, ID: SSI-GW-003.
0835 moved equipment to MCH-1UA + MCH-2LA (gotta colocated)
by hand - could not access by vehicle due to mud.
set up equipment
1000 collected sample at MCH-1UA ID: SSI-GW-001
began ~~collection~~ monitoring MCH-2LA.
battery very low - sampled before parameters stabilized.
1025 - collected sample SSI-GW-002.
1040 brought equip back to car. Drove to MCH-6LA.
collected sample using peristaltic pump (which plugged into car for energy) instead of bladder pump.
1210 collected sample SSI-GW-006.
1225 drove to MCH-10LA.
collected sample using peristaltic pump instead of bladder pump.
1320 collected sample SSI-GW-010.
1340 gathered equipment. drove to WATS to drop off groundwater IDW (35 gallon buckets)
1405 collected source water blank SSI-SWB-001
1400 collected equip rinsate SSI-ER-001
1415 packed up coolers tape bottles. left NASA

Dayna Yocum - Tetra Tech California Push Technologies 1/17/11

0710 - met CPT operator John at NASA parking lot

RSI - Doug Boggs

AIS - Steve Elliott

MIP operator - Eric San Garcia

CPT operator Gorny

0715 - Dayna Yocum conducted Hr S tailgate

CPT + MIP operators discussed hazards associated w/ CPT + MIP.

0730 - Drove to bus stop area on Stevens Way - left the van that carried the CPT truck rig and John guided the remote operated CPT rig to location of concern (LOC) 2a.

0745 - set up rigs at LOC 2a - O - UA. Hardsurfaced to 5 ft bgs. Set up exclusion zone.

0815 - began advancing CPT w/ MIP to 35 ft bgs.

realized that depth of one instrument was not correctly calibrated.

0930 - finished boring - Dayna + Steve worked w/ Eric (MIP) to review data output against response criteria.

0945 - CPT had to repush to get correct depth data.

1020 - complete data set emailed to Jim Wolff. Dayna, Steve, Jim discussed data. Decided the threshold values in MIP response criteria #2 + #3 needed to be reevaluated. Jim said the location was probably plume, but criteria #5 was a yes (1 point) and #3 was a maybe. Choose to move to LOC4 and push point O. Then realized that

4/17/11 (cont.)

1130 - moved to LOC3-SSO-UA.

140 began hand augering - hand auger broke at 5ft bgs. Steve fixed it.

237 got to 35ft bgs. MIP data shows a big hit at 27ft bgs, that tapers off. At 35ft bgs, there is still some detection in ECD. Steve recommended we continue until ~~hit tapes~~ detections are absent. Dayna concurred.

37 ft bgs - FID/PID hit, upward swing on ECD. probably ~~that~~ are hitting VOC plume of lower aquifer. do not have a permit to advance boring past 45ft bgs.

250 Stopped boring at 45ft bgs. (40.5ft bgs on MIP probe). Dayna showed Doug (Precision Locating) the next few locations on ACC property.

310 moved to LOC 4. LOC4-0-UA. will process data for previous locations and return to LOC2a + 3 when we determine better threshold criteria.

Hand augered to 5ft bgs. Advanced boring. ~~Drilled~~ Advanced to 35ft bgs.

510 At 35ft, a detection in ECD was occurring - drilled additional 5ft, ECD response went back to baseline.

Decided to not do another boring, packed up, sealed boring w/ bentonite

545 left site - LOC4 checked out access at LOC 2b. + 1.

1635 left OPHA

1/18/11

0645 - met at location MCH-11UA (LOC2b)
0700 H+S tailgate - Steve Elliott conducted
0715 setup equipment at ~~MCH~~ LOC2b - 0-UA
hand augered to 5 ft bgs.
confirmed that gw at 5 ft bgs.
instructed subs to begin 6" interval MIP readings from 5' → 15'
MIP operator checking equipment, calibrating.
0800 Floyd (AEC) stopped by and notified us that he would send a goofer for the landscaping. About $2,000 to fix.
~~0850~~ 0830 - began pushing
0~~820~~ completed push, evaluated logs, ~~moved~~ 8.5ft
1030 moved to LOC1. Strategized how to get MIP van to LOC1-0-UA.
put down ~~mats~~ track mats to get van in place. Made some tracks tracking.
1100 began push - pushed 1 minute at 6" intervals between 5 & 20 ft bgs.
NOTE: ~~LOC1~~-0-UA is 8.5 ft below TOC of MCH-9UA.
no major detections on ECD down to ~~15ft~~.
1250 drove to LOC5c, setup rig & MIP.
1330 started push at LOC5c-0-UA. Doing this location because there ~~is a lot~~ are 3 grab groundwater samples that we can compare ECD data to. Instructed CPT operators to take a reading every ~~½ ft~~ ft all the way down to 65 ft bgs.
1340 Dave now want to check out if storm drain was blocked near

1/18/11 (cont.)

D(cont.) Steve thinks perhaps a water main is leaking because he thinks a continuous source of water would be req'd to raise water level 5 ft in 2 months (when other levels only raised ~ 0.5 ft).

30 Dwyna & Steve reviewed decision logic.

0 1600 ~~to~~ reached 65 ft bgs at LOCSi-0-UA. In plume - continued push to 75 ft bgs until ~~it turn~~ response returned to baseline.

0 ended push, recd MIP log. called gm - he will call in 10 min.

00 Depart site

we will stop every 6" 5 → 15' & every 1' thereafter @ every location

7/19/11

0645 on site, tailgate safety mtg
0700 Mobilize to LOC 1 - P1
0745 start P1 @ LOC 1 - UA location
0915 shut off CPT
P1 ECD > ∅ ECD but does not appear to be source —
Move to LOC 2b. to find P1
0930 MIP running standards test
0950 Begin hand auging LOC 2b - P1
1007 set up CPT on P1
1018 push to 5'
1110 to 35' - getting some ECD readings - go a little deeper.
1115 push to ~ 42' - ECD not tapering off but end pushing
1125 Get MIP printout - still pulling rod
1130 P1 not source - end LOC 2b
1150 start mobilizing to 2a-P1
1155 hand auger P1
1215 Rig set up & preparing to push
1310 Finish 2a - P1 - choose a membrane

1545 To depth
ECS activity @ 12→29 w/ peak @ 18'
more 42→49 w/ peak @ 43'

note - hand auger for this hole was difficult, but MIP sub had to change out a membrane, so there was no delay

1645 MIP sub STILL @ boring location
1700 depart

1-20-11 (THUR)

0645 - on site - subs on site @ 0650
Mobilize to LOC 5a - tailgate mtg
MIP trailer makes A to location @
0800 after warming up equipment
0805 start pushing 5a-Ø
0920 Go 4' deeper to see if ECD
continues to drop
0925 start pulling out, mark next
location 5b-P1
1020 Start pushing
1135 to depth
1200 Response testing MIP & grouting hole
1225 Start hand augering 5a-P1
1250 start pushing
1405 to depth
1430 grouting & response testing
1455 Mobilize to LOC3-0-UA
1505 start hand augering
1525 start pushing
1605 to depth
1710 depart

1-21-11

0645 on site, tailgate mtg, mobilize to Lab - layout planks to get to loc.

0825 Start drilling - RSI takes off for another delivery

11 15 discuss rut issue w/ Floyd Reed.

1125 Mobilize to 5c-P1 - start hand augering

1210 Refusal @ 15' due to coarse gravel - move over a few feet

1240 Refusal again @ 16' -.

1315 Move to Lab-P1

1330 Start pushing

1610 Depart site

1-24-11

0645 - all crew on site
0700 - tailgate mtg
0720 - Start hand augering 65-P4-LA - cleared location very close to water line, but 65-P5-LA very close to gas line - choose P4 since water is safer than nat'l gas.
0805 MIP truck mobilizes to location - he had to double check equipment. He left nitrogen on all weekend & when he tested the standards, he got results he didn't expect. All okay
0930 Finish w/ P4
0950 Grouting
Move to LOC3-P2-UA, but shown as P3 on Figure
Finish LOC3-P2 - looks like LOC3 is done.
Mobilize to LOC5c-P2-LA, which replaces unsuccessful LOC5c-P1-LA. Note - PID noise @ 30' - fixed PID wiring & continue
1355 Done grouting 5c-P2 - looks like 5c is done
Mobilize to LOC.26-P2-UA
1500 Start 26-P2
1645 Finished grouting - load up

1-25-11

0640 on site

0645 ASC on site

0700 Dayna, CPT on site, tailgate mtg

0715 CPT mobs to LOC3.P3-UA - had auger

0820 ASC arrives @ location - he had problems w/ PID channel

0825 start hole

0900 Done pushing

1005 Done grouting - mob to 6b-S1-LA

1035 Start pushing

0800 → 1100 Clear future borings w/ Precision

{MAJ Brian Ellis - Eng Facilities Mngr
@ 129th HQ - past hangar

1220 visit by USACE LTC Donald Davis

1230 Finish grouting 6b-S1-LA

MIP downtime - cutting/fixing line.

1420 MIP arrives @ 5a-S1-LA - already had augered - CPT has been waiting - MIP still has to fix something

1443 - Finally starting to push

1600 - Finished hole - cable/phone ute locator arrived - No phone/cable anywhere in wooded area.

1-26-11

0645 on site (@ drill location)
0650 ASC on site
0715 CPT on site @ front - to drill location
by 0735 - 0750 start LOC4-02-UA
0835 to depth, but push another 5'
since in a contaminated zone
0945 mobilize to LOC4-P1-UA
1050 Grouting
1135 Mobilize to LOC5b P4-LA
1220 Mechanical problems w/ depth
recorder
1335 start pushing again
1445 Done pushing
1610 depart

1-27-11

0645 Arrive on site - ASC on site
0715 CPT on site
Tailgate mtg
0800 Start pushing 66-SS2-UA/LA
push 66-SS2-UA to 25' & gust
Remove the short steps
upgrade from P1 SSs -
Daycare will change

LOC 5a - SS3 - LA / was 5b P6.
→ LOC 5c - P5 - LA / was LOC 3 - P5
LOC 5a - SS2 - LA / was 5a S2

0950 Set up on LOC 5a-SS2-LA
1110 move to LOC 5a-SS3-LA
1230 Meet w/ Army rep to discuss
location 5C-P5-LA - okay to go
— Done w/ LOC 5a-SS3-LA
1300 Start conference call
1330 Mob to
1420 ~~Start pushing~~ Had accident LOC 5C-P5-LA
1445 Problems with the ACS channel - possible

1-28-11

0645 on site - Precision on site
0650 TT: ASL on site
0715 CPT on site
0740 start hand augering LOC5b-P6-LA - already cleared by Precision
0845 start pushing
0935 Done - pull out, grout, & repush 30-40' since that area maxed out MIP equipment.
1140 start pushing LOC5CP4LA
1235 MIP lines clogs @ ~53' - pull out. ECD was ~flat-lining anyway
Hole found in line - water blown out & hole patched
1330 Moved to LOC3-P4-UA
1450 - something wrong w/ heat probe / sensor - work on it until 1545 - grout - no time to complete 3-P5LA

Sample technique:
Advance 2" outside casing w/ shoe and inner 1" rod w/ tip once to depth - pull back casing 1' & remove inner rod. Insert 3/4" PVC casing and drop to total depth - PVC is does 0.010" slots - only 1' of formation is exposed; however, may get water coming up from below.

Backfill:
Drop bentonite chips ~~for~~ inside steel casing - push down w/ PVC to ensure seal to total depth - 2' chips & then bentonite grout to ground surface (after pulling casing)

PVC discarded
new PVC @ each hole

2-14-10

0720 Onsite - drillers called @ 0650 - they were on site, but left to get rain suits

0725 RSI on site (front gate) - unable to Reserve parking lot - they head to Home Depot to get second track plank to Prevent landscape damage

0730 Precision on site
Hand auger 1st location @ 0830 after tailgate mtg.

0935 set up on 1st hole LOCbb-0

1015 Grab 1st sample - ample water - silty
sample SSI-HP-001 - prepped
trip blank SSI-TB-001 - bubbles on all lab-prepared trip blanks (pea sized) - backfill hole

1100 Drove to location of S side of fence.
LOCbb-DP-001
began hand augering ~~at~~ to 5ft bgs.

1130 ~~brought~~ drove directpush rig to location

1145 - completed boring to ~~12ft~~ 13ft. Screened PVC hydrowatch form

1235 pull sample - very silty
1300 mob to SSI-HP-003 & hand auger
1330 Start pulling soil samples
Note a silty sand lense
starting @ 11' - pull water
10-11' - collected @
1500 - very silty
1525 set up on LOC3 BY-UA
push to 15-16' for HP sample

2-15-11

0730 Meet on site - tailgate meeting
0745 Mob to loc 7 - hand auger
collect soil 5 → 16' - silty
sand 11-11.5 ; well-graded sand
13-16 - WW collect water 13-14'
collect more soil 39-44'
Monitor breathing zone w/ PID (0 ppm)
1015 Mob to #10, hand auger
sample soil 9-21'

10 { 15.5-17.5 — UA
fine sand → silty sand
poorly graded sand @ 37-38.5 (top unknown)
42-43.5 — LA
silty sand

7 { silty sand 11-11.5 — UA
well graded sand 13-16
silty sand 39-40 — LA

silty sand 42-43.5

Move to LOC 8-0-UA (HP's 1 & 2)
(Sample 15-16 & 17-18)
set temp well @ 15-16 & break for
lunch 1215-1245
collect 15-16' @ 1300
collect next sample @ same
location @ 17-18' @ 1345
1420 MOB to #9 — 30'
north of FWOBB —
pull sol @ 35-39' — machines
FWOBB CPT log, so push to
44.5 & pull back 1 foot —
collect HP @ 43.5-44.5' —
water @ ~ 20'

2-16-11

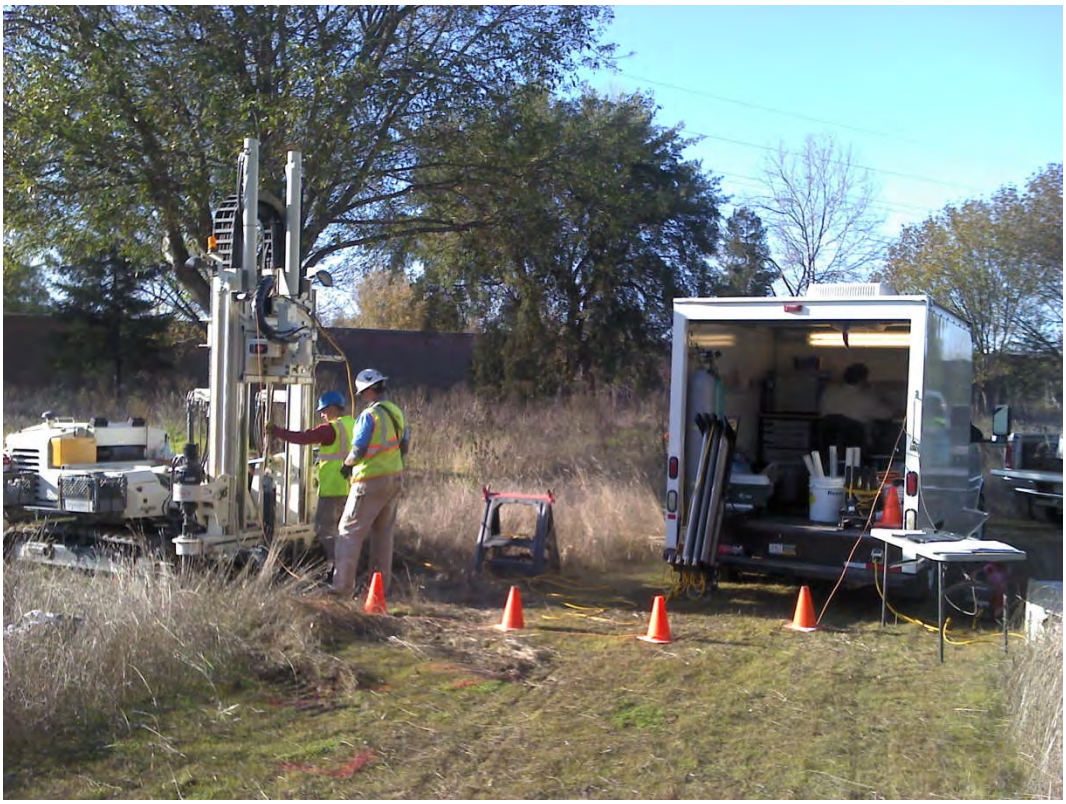
0730 onsite - mob to #7
tailgate safety mtg
0810 - p-11 13-14' HP
SSI-D-002 collected
SSI-HP-008
very silty & lots of fizzing - slow recharge
1155 collect SSI-HP-009 @
Loc #10 @ 42-43' - slow
recharge, but less silt & no fizzing -
1240 mob to SSI-SS-001 @
LOC4-02 - push 5 → 15' collect
sample @ ~~10.7'~~ → 11.3'

1-55 gal drum soil
1-35 gal drum water (MIP part. kit water)
1-55 gal drum water (decon)
MIP-TKE

APPENDIX G
FIELD INVESTIGATION PHOTOGRAPHS

(Provided on CD only)

Photograph G-1: Groundwater Sampling at MCH-11UA, Phase 1



Photograph G-2: Cone Penetrometer Test (CPT) Rig and Membrane Interface Probe (MIP) Rig at LOC4-0-UA, Phase 2 (CPT/MIP Investigation)

Photograph G-3: Advancing a Boring with CPT/MIP at LOC4-0-UA, Phase 2 (CPT/MIP Investigation)

Photograph G-4: Grouting a Borehole with Bentonite and Cement Grout at LOC4-0-UA, Phase 2 CPT/MIP Investigation

Photograph G-5: MIP Rig and Equipment, Location LOC2a-0-UA at LOC2a-0-UA, Phase 2 CPT/MIP Investigation

Photograph G-6: Retrieving a Groundwater Grab Sample with A Disposable Bailer at LOC-DP-12, Phase 2 DPT Investigation

Photograph G-7: Collecting a Groundwater Grab Sample at LOC-DP-12, Phase 3 DPT Investigation

APPENDIX H
RESPONSES TO AGENCY COMMENTS ON FIELD DATA SUMMARY PACKAGE PRESENTED ON APRIL 5, 2011

(Provided on CD only)

Responses to Comments from Elizabeth Wells, Water Board received via e-mail on April 21, 2011
Field Summary Package submitted April 5, 2011
Former Orion Park Housing Area, Former NAS Moffett Field, Moffett Field, California

Number	Comment	Response
1	Provide documentation and information that supports the conclusion that the contaminants are migrating from the A2 upgradient to the A1 downgradient. Show that water levels (and calculated vertical gradients) in nested wells measured recently and in the past support this conclusion.	The potentiometric surfaces of the A1 and A2 aquifer zones are similar. A lower-permeability horizon referred to as the A1/A2 aquitard separates the upper A (A1) and lower A (A2) aquifer zones in a range of approximately 23 to 27 feet below ground surface. Because the A aquifer has variable thickness and heterogeneous alluvium, the A1/A2 aquitard is not likely to be continuous throughout the site. Furthermore, the A1/A2 aquitard likely functions as a secondary source, slowly releasing trichloroethene (TCE) mass through back-diffusion, because the plume flowing through the former Orion Park Housing Area (OPHA) (Site) is likely a relatively old plume. A study of past potentiometric surface data indicates that vertical gradients between the zones are relatively low and reversible on a seasonal basis. The current potentiometric surfaces of both the A1 and A2 zones appear oriented sharply toward the northwestern Site boundary, suggesting a groundwater sink to the northwest. This sink could be caused by discharge to a well or drain to the northwest; however, off-site hydraulic influences are beyond the scope of this investigation. The primary product of this investigation is the kriged membrane interface probe (MIP) response contours modeled in Environmental Visualization Software-Pro (EVS) and the resulting model of the chlorinated solvent plume, the overall shape of which indicates a large plume that decreases in concentration from south to north, and from the A2 to A1 aquifer zones, and appears to follow the overall groundwater gradient to the northwest.
2	Show the locations of the LOCs and site boundaries on the figures.	The outlines of the locations of concern (LOC) have been added to the figures showing the EVS model outputs. Roads in the immediate area and on-site have also been added to orient the reader.
3	Discuss how the plume distribution corresponds to the lithologic units in the subsurface.	Groundwater plumes tend to migrate through sand and gravel channels and use these channels as preferential pathways. Figure 7 shows the interpolated model of the sand and gravel channels locations within the A1 and A2 aquifers throughout the site. Lithologic data were collected from boring logs completed by site geologists during cone penetration technology (CPT) borings. The EVS model portrays lithologic variation across the Site through the kriged distribution of these data (Figure 7) and by the discrete results of the CPT and lithologic logging, which are posted at the borehole locations in many of the figures generated by EVS. The kriged distribution of the MIP responses was also generated by EVS and featured in Figures 8 through 11 and in cross-section form on Figures 13 through 15. Figures 8 and 9 depict the low-level MIP responses and show that the plume as characterized by the low-level (but detectable) MIP responses generally follows the trend of the sand and gravel channels.

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Number	Comment	Response
4	Figures 3/5: Recognizing that a modeling program was used to develop the spatial distribution of contamination shown by the green shading, discuss the consistency of the interpretation and how the contaminated zones/areas were determined. Specifically, some areas are connected to show larger plume areas, but there does not appear to be sufficient data to connect these areas.	The depiction of the contaminant plume in the EVS-generated figures was created by interpolation of closely-sampled (one reading every vertical foot) MIP responses at the 36 MIP borings conducted during the recent investigation, coupled with lithologic data generated from two earlier investigations (as well as the DPT boring conducted in Phase 4 of this investigation). The input of lithologic and MIP data provides a robust model of volatile organic compound (VOC) contamination at the Site. Because a specific decision logic was developed and approved to guide the project, all portions of the Site do not have equal coverage. The visualizations generated with EVS show all of the discrete data points used to develop the plume model. The data points are shown to help reviewers understand and evaluate the relationship between data density and the accuracy of the model at any one location. Careful review of the figures will reveal some discrepancies between the model and point data, a situation that is unavoidable in highly heterogeneous alluvial settings. One such instance can be viewed on Figure 15 (cross-section E-E'). The TCE concentrations in the A1 and A2 aquifer zones at borehole FW16B appear inconsistent with the kriged MIP response in this area. This inconsistency is likely a result of three factors: (1) the MIP investigation occurred 8 years after the DPT investigation when borehole FW16B was sampled, and there are likely temporal variations in concentration that are not accounted for, (2) this borehole was outside of the LOCs investigated, and MIPs were not advanced in its vicinity, and (3) this borehole is centered on a portion of the cross-section that cuts across the fabric of the sand distribution at the site; thus, conditions may be localized and not the same as the two adjacent MIP points. These factors may lead to the observed disconnect between the MIP response and the TCE concentrations at that borehole; however, by showing the data distribution in relation to the model, a detailed understanding between the model and its underlying data can be better understood, which leads to a better and more realistic understanding of the conceptual site model of the Site.
5	Include lithologic information on the contaminant (MIP, data) cross sections to provide a thorough assessment of chemical sources areas, fate and transport, and distribution.	The cross-section figures have been modified to show lithologic information at each borehole. The lithology of the soils in LOCs 3 and 6b is discussed in the sections describing the upgradient plume moving through the site.
6	Because the MIP looks at total VOCs, include all analytical data in the analysis. The concentrations and distribution of DCE and vinyl chloride should be evaluated and incorporated into the discussion on chemical source areas, fate and transport, and distribution.	The concentrations and distribution of detected TCE daughter products, 1,1-dichloroethene (DCE), 1,2-DCE, and trans-1,2-DCE are discussed in addition to TCE. Vinyl chloride was not detected in any of the DPT groundwater samples collected in the February 2011 DPT investigation.

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Number	Comment	Response
7	Consider evaluating the data based on total molar concentration, which will take into account the presence of degradation products. If an evaluation using molar concentration is not performed, discuss why not.	An evaluation of the molar concentration of chlorinated solvents detected in the February DPT samples has been incorporated into the draft supplemental site investigation (SSI) report. The evaluation of the data using molar concentrations mirror the mass concentration trends observed between upgradient to downgradient sample locations in both the A1 and A2 aquifers. An overall decline in the molarity of chlorinated ethenes relates well with an overall decline in the mass concentrations from upgradient to downgradient reported by the laboratory. Therefore, the molar concentration analysis does not provide evidence of any new on-site sources of breakdown products.
8	Specify if MIP concentrations were compared to and calibrated against TCE and/or total VOC concentrations in groundwater. Discuss how the MIP data (yellow vs. red areas) corresponds to chemical concentrations in the subsurface.	It is not possible to calibrate the MIP response to an individual chemical species (such as TCE) in groundwater, rather the MIP detects total VOCs in soil and groundwater. The MIP's electron capture detector (ECD) measures total VOCs that have been heated and volatilized into the instrument's carrier gas stream as the probe is pushed through the subsurface, and provides this information in real-time as an instrument response. The ECD does not provide a quantitative concentration of VOCs in the groundwater or soil. However, the response level from the ECD corresponds to the amount of VOCs present in the carrier gas, which is proportional to the amount of VOCs in the soil or groundwater at the MIP location. A greater response from the ECD indicates greater VOC concentrations in the subsurface (Casey Hudson, P.E., CH2M Hill Constructors, Inc, Undated). The MIP probe was tested against a series of TCE standards before, and after, each push. The Army reviewed the resulting MIP response test files along with the MIP push results on a daily basis, as part of its quality control (QC) process. The MIP response test files are available for review. Rather than correlating a TCE value with the MIP response, MIP responses from locations collocated with historical TCE data were qualitatively compared with DPT groundwater sample results collected during previous investigations, as well as groundwater results from wells sampled in January 2011 and DPT results during this investigation. These comparisons were made available to the project team in LOC data summaries as the investigation progressed. Discrete sample results are also presented on EVS-generated cross-section figures (Figure 13 through 15) along with the discrete MIP responses (at the borehole itself) and the plume model that was developed from the MIP results.

References:

Casey Hudson, P.E., CH2M Hill Constructors, Inc. Undated. Real-time Site Characterization with the Membrane Interface Probe. Available on-line at: http://www.containment.fsu.edu/cd/content/pdf/160.pdf.