

New York State Department of Health

**December 2007 Quarterly Ground
Water Monitoring Report**
David Axelrod Institute Site
(Site No.:401031)
Albany, New York

January 2008

Environmental Resources Management
5788 Widewaters Parkway
Dewitt, New York 13214

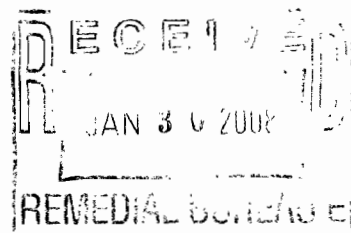


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INTRODUCTION

This report presents the data from the December 2007 ground water sampling activities at the Axelrod Institute Site located at 120 New Scotland Avenue in Albany, New York (the "Site"). A site location map is included as Figure 1, Attachment A. The Site has been identified by the New York State Department of Environmental Conservation (NYSDEC) as an inactive hazardous waste site (Site Identification No: 401031).

The Site was previously part of a quarterly ground water monitoring program pursuant to an Order on Consent, Index No. A4-0304-93-07, entered into between the New York State Department of Health (NYSDOH) and the NYSDEC effective 27 August 1993 (the "Consent Order"). In a letter dated 8 October 2003, Environmental Resources Management (ERM) proposed modifications to the Consent Order and presented a redefined scope of work for the Site. The NYSDOH and the NYSDEC agreed to the proposal, which includes monitoring and sampling the wells every fifth quarter and the submission of follow-up letter reports to the NYSDOH. The most recent ground water sampling event and follow-up report preparation were conducted pursuant to the agreed upon modifications to the Consent Order.

GROUND WATER SAMPLING

Pursuant to the NYSDEC-approved monitoring plan, ERM collected groundwater samples at the Site every fifth quarter. The first round of ground water sampling at the Site was conducted in December 2003, followed by the second round of sample collection in March 2005 and the third round in June 2006. This report presents the results of the fourth round of sampling.

On 4 December 2007, ERM collected the quarterly ground water samples from three shallow ground water monitoring wells, MW-8S, MW-9S, and MW-11S, located at the Site. A site layout map showing the locations of the three sampled shallow ground water monitoring wells is included as Figure 2, Attachment A.

An ERM geologist collected static water level measurements and well depth measurements from the shallow monitoring wells using an electronic water level indicator, which was washed with a Liquinox solution and rinsed with distilled water between measurement locations. The reference point used for all water level measurements was the top of the well casing.

Prior to sampling, a minimum of three well volumes was purged from each well and various field parameters, including temperature, pH, turbidity, specific conductivity, oxidation-reduction potential, and dissolved oxygen, were collected from each well using a YSI multi-meter.

Monitoring wells MW-8S, MW-9S and MW-11S were sampled using dedicated disposable bailers. A blind field duplicate was collected at MW-9S. All samples were transferred to clean, laboratory-supplied containers and placed into a chilled, thermally insulated cooler immediately after collection. Samples were delivered to the project laboratory by ERM personnel within 3-hours of sample collection and chain of custody procedures were followed during all sample handling and transport.

Ground water samples collected on 4 December 2007 were analyzed by Adirondack Environmental Laboratories, Inc. (Adirondack) in Albany, New York. Adirondack is a New York State Department of Health-approved environmental laboratory.

ANALYTICAL RESULTS

Ground water samples collected from the monitoring wells were analyzed for Target Compound List Volatile Organic Compounds (TCL VOCs) by USEPA Method 8260B in accordance with the 1995 NYSDEC Analytical Services Protocol (ASP) Category B deliverable guidelines. A sample summary table is included as Table 1, Attachment B. Ground water sampling records are included in Attachment C. Validated analytical sample results along with the Data Validation Review performed by ERM's in-house chemist are included as Attachment D. A copy of the laboratory analytical report is included as Attachment E.

VOC's were not detected in the ground water samples collected from shallow monitoring well MW-9S on 4 December 2007. Methyl tert-butyl ether was detected at concentrations of 8.24 micrograms per liter (ug/l) and 6.91 ug/l in monitoring wells MW-8S and MW-11S, respectively, on 4 December 2007. These concentrations are below the NYSDEC Ambient Water Quality Standard of 10 ug/l.

GROUND WATER ELEVATIONS

ERM previously collected well elevations for MW-8S, MW-9S, and MW-11S during the 22 December 2003 sampling event. These well elevations, along with the 4 December 2007 depth-to-water measurements for each well, were used to calculate relative ground water elevations for the Site (Table 2, Attachment B). A ground water contour map (Figure 2, Attachment A) was compiled using the water level data for the three sampled shallow monitoring wells.

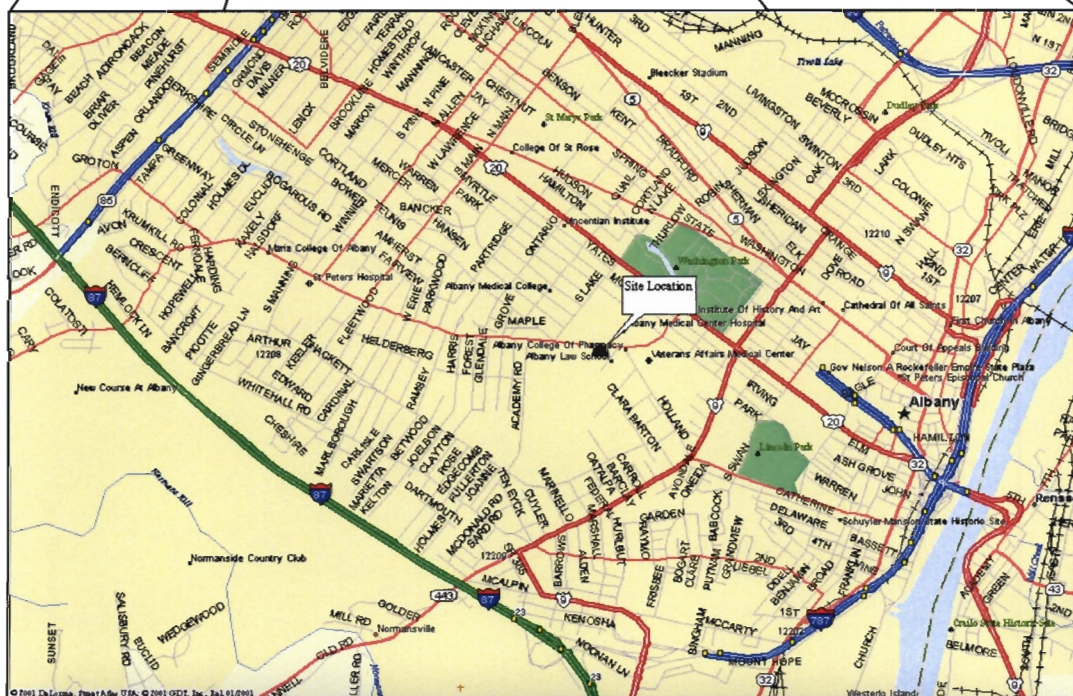
The ground water contour map indicates that the flow direction of shallow ground water on 4 December 2007 was generally South from MW-9S, North from MW-11S, and West from MW-8S. This direction of water flow is towards the location of the original contaminant disposal location, which is acting as a type of sink for the surrounding upgradient areas. This suggests that migration of the contaminants is limited since the contaminated area has the lowest localized elevation.

CONCLUSIONS

Pursuant to a modified Consent Order agreed upon by the NYSDOH and the NYSDEC, ERM collected ground water samples from shallow monitoring wells MW-8S, MW-9S, and MW-11S on 4 December 2007. ERM has also prepared this letter report to the NYSDOH in accordance with the agreed upon provisions of the redefined scope of work.

Laboratory analytical data from the 4 December 2007 sampling event indicate that VOCs were not detected above any NYSDEC Ambient Water Quality Standard in any of the sampled shallow monitoring wells located at the Site.

ATTACHMENT A
FIGURES



SITE LOCATION MAP
DAVID AXELROD FACILITY
ALBANY, NEW YORK

PREPARED FOR

NYS DEPARTMENT OF HEALTH



ERM-Northeast

SCALE

AS SHOW

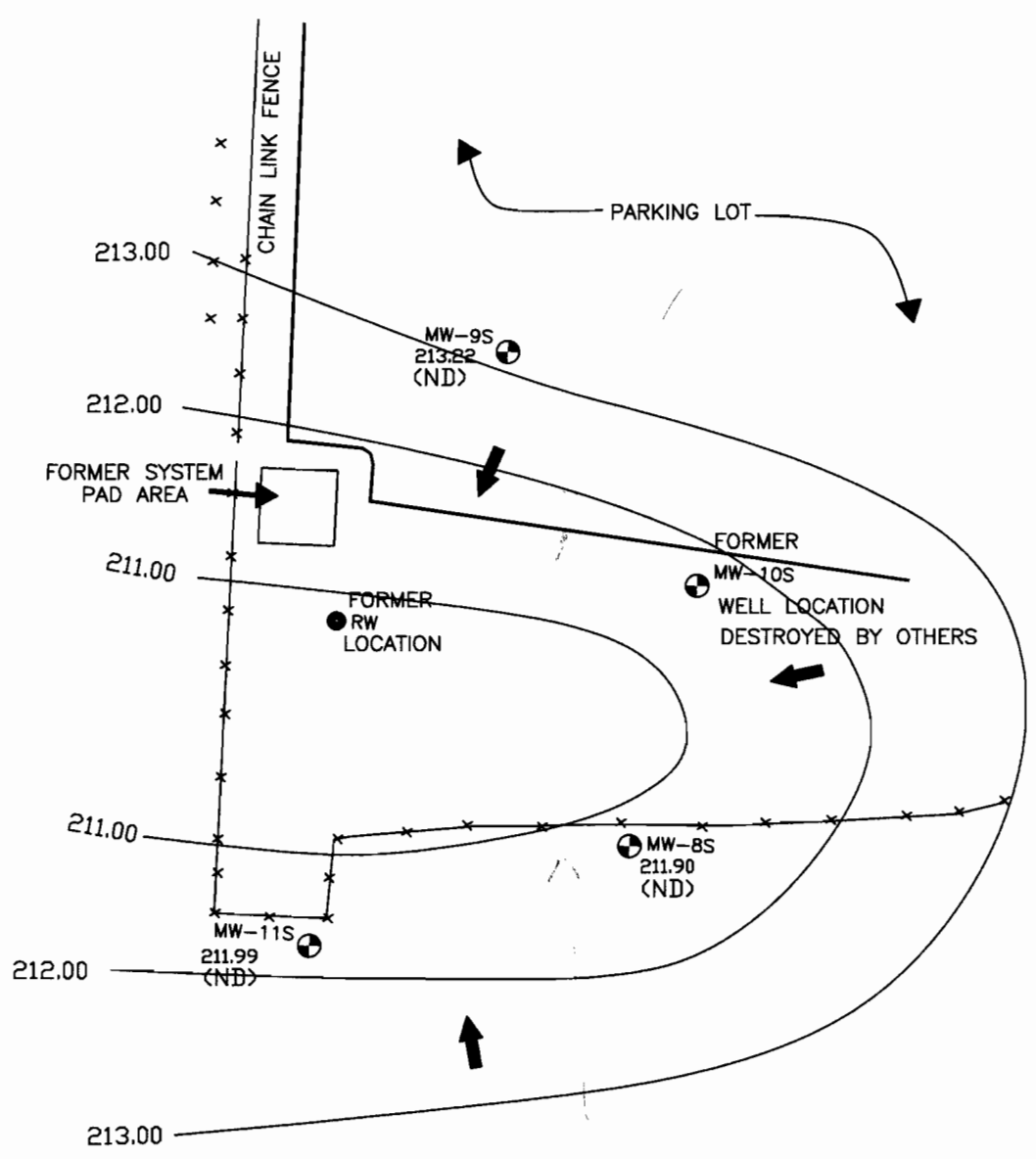
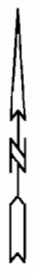
DATE _____

09/06

FIGURE

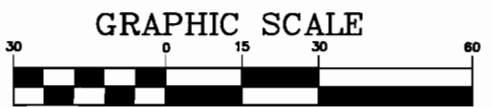
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PROJECT PURPOSES



LEGEND:

-  MONITORING WELL LOCATION AND DESIGNATION
-  GROUND WATER ELEVATION
-  GROUND WATER CONTOUR
-  GROUND WATER FLOW DIRECTION
-  SUM OF VOC'S DETECTED (ug/l)
-  NO COMPOUNDS DETECTED
-  WELL NOT SAMPLED (Destroyed)



(IN FEET)
NOTES: Locations are Estimated and Approximate.
4 December 2007 Monitoring & Sampling Event

GROUND WATER DATA PLOT
DAVID AXELROD FACILITY
ALBANY, NEW YORK

PREPARED FOR
NYS DEPARTMENT OF HEALTH

	SCALE AS SHOWN	FIGURE 2
	DATE 12/07	

PROJECT #0019555

ATTACHMENT B
TABLES

TABLE 1
SUMMARY OF DETECTED VOC's
AXELROD FACILITY
ALBANY, NEW YORK
ERM PROJECT NUMBER 0076476

Sample Location Date Sampled	NYSDEC Standard	MW-8S 12/22/2003	MW-9S 12/22/2003	MW-10S 12/22/2003	MW-11S 12/22/2003	MW-8S 3/2/2005	MW-9S 3/2/2005	MW-10S 3/2/2005	MW-11S 3/2/2005
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	U	U	NS	U	U	U	NS	2.1
Total VOCs	10	U	U	NS	U	U	U	NS	2.1

Sample Location Date Sampled	NYSDEC Standard	MW-8S 9/7/2006	MW-9S 9/7/2006	MW-10S 9/7/2006	MW-11S 9/7/2006	MW-8S 12/4/2007	MW-9S 12/4/2007	MW-10S 12/4/2007	MW-11S 12/4/2007
TCL VOCs (ug/L)									
Methyl tert-butyl ether	10	U	U	NS	19J	8.24J	U	NS	6.91J
Total VOCs	10	U	U	NS	19J	8.24J	U	NS	6.91J

NOTES:

- U = Not Detected above laboratory detection limits.
NYSDEC Standards - NYSDCE Ambient Water Quality Standards - TOGS 1.1.1
TCL VOCs = Target Compound List Volatile Organic Compounds.
ug/L = micrograms per liter.
Bold Text - Above NYSDCE Standard
J = estimated value
- Only those analytes that were detected in at least one sample are presented.
- All samples analyzed for TCL VOCs by EPA Method 8260B.
- MW-10S was not sampled (NS) since the well was destroyed.

TABLE 2
SUMMARY OF GROUND WATER ELEVATION DATA
AXELROD FACILITY
ALBANY, NEW YORK
ERM PROJECT NUMBER 0076476

Well Location	MW-8S	MW-9S	MW-10S	MW-11S
Elevation at Top of Casing	216.42	219.64	218.59	219.39
Total Depth of Well	17.92	19.75	NM	16.22
Screen Length	10	15	10	10
Date				
12/22/2003	211.74	213.24	NM	212.17
3/2/2005	211.40	213.00	NM	211.54
9/7/2006	211.27	212.42	NM	211.41
12/4/2008	211.90	213.22	NM	211.99

NOTES:

- All measurements reported in feet.

NM = Not measured (well was destroyed).

ATTACHMENT C
GROUND WATER SAMPLING RECORDS

GROUND WATER SAMPLING RECORD

SITE Axelrod Institute DATE 12/4/07
 PROJECT NUMBER: 0076476
 SAMPLE ID: AX - MW-85 (120407)
 WELL ID: MW Time Onsite: 8:00 Time Offsite: _____
 SAMPLERS: David W. Myers

Depth of well (from top of casing) 17.85 Time: 9:00
 Static water level (from top of casing) 4.52 Time: 9:00
 Water level after purging (from top of casing) 5.90 Time: 9:30
 Water level before sampling (from top of casing) 4.75 Time: 9:45

Purging Method: Well Volume Calculation: 1 volume 3 volumes
 Airlift Low-Flow Pump 2 in. well: 13.33 ft. of water x 0.16 = 2.13 gal. x 3 = 6.4 gal.
☒ Bailer Dedicated Peristaltic Pump 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 Submersible Ded. Pump 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.
 Volume of water removed: ~8.0 gal. >3 volumes: yes ☒ no _____ purged dry? yes _____ no ☒

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	<u>6.9</u>	<u>2.41</u>		<u>38.7</u>	<u>13.1 C</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>15.5</u>

Sampling

Time of Sample Collection: 9:45
 Collection Method: Analyses: Analytical Method:
☒ Disposable bailer ☒ VOCs - 8260 ☒ 503.1 Other _____
 Teflon bailer _____ SVOCs _____
 Dedicated pump _____ Metals ASP Level R
 Submersible Pump _____ PCB/Pest _____
 Low-Flow Sampling _____ MNA _____
 Other: _____ Other _____

Observations

Weather/Temperature: Overcast - mod wind - 20-25°F
 Sample Description: slightly cloudy to clear
 Free Product? yes _____ no ☒ describe _____
 Sheen? yes _____ no ☒ describe _____
 Odor? yes ☒ no _____ describe Sweet smell

Comments:

Replaced bailer cord
Clean cap/cover "salted up"

GROUND WATER SAMPLING RECORD

SITE Axelrod Institute DATE 12/4/07
 PROJECT NUMBER: 0076476
 SAMPLE ID: AX - MW-95 (120407)
 WELL ID: MW Time Onsite: 8:00 Time Offsite: 10:45
 SAMPLERS: David W. Myers

Depth of well (from top of casing) 19.95 Time: 9:55
 Static water level (from top of casing) 6.42 Time: 9:55
 Water level after purging (from top of casing) 18.20 Time: 10:15
 Water level before sampling (from top of casing) 15.95 Time: 10:30

Purging Method:

☐ Airlift ☐ Low-Flow Pump
☒ Bailer Dedicated ☐ Peristaltic Pump
☐ Submersible ☐ Ded. Pump

Well Volume Calculation:

2 in. well: 13.53 ft. of water x 0.16 = 2.2 gal. x 3 = 6.6 gal.
 3 in. well: _____ ft. of water x 0.36 = _____ gal. x 3 = _____ gal.
 4 in. well: _____ ft. of water x 0.65 = _____ gal. x 3 = _____ gal.
 6 in. well: _____ ft. of water x 1.47 = _____ gal. x 3 = _____ gal.

Volume of water removed:

~ 7.0 gal.

>3 volumes: yes ☒ no ☐ purged dry? yes ☐ no ☒

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	<u>6.6</u>	<u>2.58</u>		<u>29.1</u>	<u>12.6°C</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>27.8</u>

Sampling

Time of Sample Collection: 10:30

Collection Method:

☒ Dedicated
☐ Disposable bailer
☐ Teflon bailer
☐ Dedicated pump
☐ Submersible Pump
☐ Low-Flow Sampling
☐ Other: _____

Analyses:

☒ VOCs - 8260
☐ SVOCs
☐ Metals
☐ PCB/Pest
☐ MNA
☐ Other _____

Analytical Method:

☒ 503.1 _____ Other _____
ASP Level R

Observations

Weather/Temperature: Cloudy - med. wind 25°F

Sample Description: Cloudy

Free Product? yes ☐ no ☒ describe _____
 Sheen? yes ☐ no ☒ describe _____
 Odor? yes ☐ no ☒ describe _____

Comments:

Duplicate obtained at this location.

Lock placed on Well Cap - Do It Model

GROUND WATER SAMPLING RECORD

SITE Axelrod Institute
 PROJECT NUMBER: 0076476
 SAMPLE ID: AX - MW-11S (120407)
 WELL ID: MW
 SAMPLERS: David W. Myers

DATE 12/4/07
 Time Onsite: 8:00
 Time Offsite: _____

Depth of well (from top of casing) 16.35 Time: 8:15
 Static water level (from top of casing) 7.40 Time: 8:15
 Water level after purging (from top of casing) 13.35 Time: 8:35
 Water level before sampling (from top of casing) 12.15 Time: 8:45

Purging Method:

Airlift _____ Low-Flow Pump _____
☒ Bailer Dedicated Peristaltic Pump _____
 Submersible _____ Ded. Pump _____

Well Volume Calculation:

2 in. well: 8.95 ft. of water x 0.16 = _____
 3 in. well: _____ ft. of water x 0.36 = _____
 4 in. well: _____ ft. of water x 0.65 = _____
 6 in. well: _____ ft. of water x 1.47 = _____

1 volume 3 volumes
1.44 gal. x 3 = 4.3 gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.
 _____ gal. x 3 = _____ gal.

Volume of water removed:

26.0 gal.

>3 volumes: yes ☒ no _____ purged dry? yes _____ no ☒

Field Tests:

	pH	Cond.	Turb.	DO	Temp.	DEP	SAL	TDS	ORP
units	-	mg/cm	NTU	mg/L	C F	-	-	g/L	mV
Initial									
1 Volume									
2 Volumes									
3 Volumes	<u>7.1</u>	<u>0.755</u>	<u>-</u>	<u>45.2</u>	<u>13.2 C</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>105.2</u>

Sampling

Time of Sample Collection: 8:45

Collection Method:

☒ Dedicated
☐ Disposable bailer
☐ Teflon bailer
☐ Dedicated pump
☐ Submersible Pump
☐ Low-Flow Sampling
☐ Other: _____

Analyses:

☒ VOCs -
☐ SVOCs
☐ Metals
☐ PCB/Pest
☐ MNA
☐ Other _____

Analytical Method:

8260 ☒ 503.1 _____ Other _____
ASP Level R

Observations

Weather/Temperature: Partly cloudy, moderate NW 20°F

Sample Description: slightly cloudy

Free Product? yes _____ no ☒ describe _____
 Sheen? yes _____ no ☒ describe _____
 Odor? yes _____ no ☒ describe _____

Comments:

Replaced bailer cord
New lock placed on well. Do It. Model

ATTACHMENT D
DATA VALIDATION REPORT

**DATA VALIDATION REPORT
AXELROD FACILITY
ALBANY, NEW YORK
GROUND WATER SAMPLE ANALYSES
ENVIRONMENTAL RESOURCES MANAGEMENT (ERM)
PROJECT NUMBER 0076476
ADIRONDACK ENVIRONMENTAL SERVICES, INC.
JOB NUMBER 071204030**



Deliverables:

The above referenced data package for three (3) ground water samples, one (1) blind field duplicate sample, and one (1) trip blank contains all required deliverables as stipulated under the July 2005 New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) for Category B deliverables. The sample specific analysis included Target Compound List (TCL) Volatile Organic Compounds (VOC) analyzed by United States Environmental Protection Agency (USEPA) SW-846 Method 8260B. The samples were analyzed following "Test Methods for Evaluation Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions". The data have been validated according to the protocols and quality control (QC) requirements of the ASP, the National Functional Guidelines for Organic Data Review (October 1999), the USEPA Region II Data Review Standard Operating Procedure (SOP) Number HW-24, Revision 2, October 2006: Validating Volatile Organic Compounds by SW-846 Method 8260B, and the reviewer's professional judgment.

The validation report pertains to the following samples:

<u>Samples</u>	<u>QC Samples</u>
AX-MW-8S (120407)	AX-Dupe (120407) - Blind Field Duplicate of sample
AX-MW-9S (120407)	AX-MW-9S (120407)
AX-MW-11S (120407)	AX-TB (120407) - Trip Blank
	AX-MW-11S (120407) MS/MSD (selected by laboratory)

Volatiles

The following items/criteria were reviewed for this report:

- Case narrative and deliverables compliance
- Holding times and sample preservation (including pH and

- temperature)
- Surrogate Compound recoveries, summary and data
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) results, recoveries, summary and data
- Laboratory Check Sample (LCS), recoveries, summary and data
- Method blank summary and data
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning and performance
- Initial and continuing calibration summaries and data
- Internal standard areas, retention times, summary and data
- Trip Blank results
- Blind Field Duplicate sample results
- Organic analysis data sheets (Form I)
- GC/MS chromatograms, mass spectra and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification

The items listed above were technically and contractually in compliance with SW-846 protocols with the exceptions discussed in the text below. The data have been validated according to the procedures outlined above and qualified accordingly.

- Typically a Matrix Spike/Matrix Spike Duplicate (MS/MSD) set is collected and submitted to the laboratory per twenty field samples collected. In this case, no MS/MSD was collected or submitted to the laboratory. The laboratory analyzed the MS/MSD on sample AX-MW-11S (120407) from this deliverable. No qualification of the sample data is required.
- On the quantitation report, sample AX-MW-8S (120407) is listed with a Methyl-Tert-Butyl-Ether (MTBE) concentration of 8.24 ug/L, and sample AX-MW-11S (120407) is listed with an MTBE concentration of 6.91 ug/L. According to the laboratory report, the instrument detection limit (IDL) for MTBE is 1.405 ug/L, and the laboratory reporting limit is 10 ug/L. ERM contacted the laboratory regarding the MTBE detection, and the laboratory indicated that the compound is indeed present in the samples at these concentrations and that these concentrations should have been reported on the Form Is as J values. Therefore, ERM has included the MTBE values reported on the quantitation report on the Form Is as "J" values (since they were detected above the IDL, but below the reporting limit).

- Acetone was detected at 18 ug/L in the trip blank (AX-TB (120407)); however, since all of the associated samples were non-detect for acetone, no qualification of the sample data is required.
- The percent recovery (%R) for the surrogate compound 1,2-Dichloroethane-d4 was above QC limits for samples AX-MW-11S (120407) MS and AX-MW-11S (120407) MSD (118% and 120%, respectively; QC limits 76-114%), and also for the laboratory control sample (LCS) (116%; QC limits 76-114%). Therefore, the results for these three samples are possibly biased high. However, due to the fact that the MS concentrations were within the QC recovery limits, the MSD RPDs were within the QC RPD limits, and the LCS recoveries were within the QC recovery limits, no qualification of the sample data is required.
- The following table lists compounds that exceeded 30 percent relative standard deviation (%RSD) for relative response factors (RRF) in the initial calibration (ICAL) or 25 percent difference (%D) between the initial calibration average response factor and the continuing calibration verification (CCV) response factor. Associated field samples are also listed. Positive results for these compounds in associated samples are considered estimated and flagged "J". All non-detect results for the compound of interest in the appropriate samples are flagged "UJ".

Calibration	Compound	Deficiency	Associated Samples
ICAL 11/30/07 10:31-12:26	2-Hexanone 1,2-Dibromo-3-Chloropropane	%RSD=35.6 %RSD=40.6	All samples
CCV 12/7/07 @ 10:38	Dichlorodifluoromethane Chloroethane 4-Methyl-2-Pentanone 2-Hexanone 1,2-Dibromo-3-Chloropropane	%D=-26.68 %D=27.35 %D=-27.95 %D=-25.72 %D=-26.00	All samples

- The relative response factor (RRF) in the continuing calibration verification (CCV) for 1,2-Dibromo-3-Chloropropane is 0.037, which is below the lower limit of 0.050. Based on the reviewer's professional judgment, this data is still usable, although should be qualified with a "UJ".

Package Summary:

All data are valid and usable with qualifications as noted in this review.

Signed:  Dated: 17 January 2008
Melissa A. McGinnis
Project Scientist

ATTACHMENT E
LABORATORY ANALYTICAL REPORT

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3522.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	J
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	J
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	J
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	J
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3522.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U J
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-003A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3523.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	J
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	J
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	J
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-003A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3523.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U J
120-82-1	1,2,4-Trichlorobenzene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER Lab Sample ID: 071204030-001A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: E3521.D

Level (low/med): _____ Date Received: 12/4/07

% Moisture: not dec. 100 Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	J
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	J
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10 6.91	6.91	J
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	J
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	J

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES

Case No.: ERM0701

SAS No.: _____

SDG No.: _____

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3521.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	UJ
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ERM0701

SAS No.:

SDG No.:

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-004A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3524.D

Level (low/med):

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	J
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	J
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	J
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-004A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3524.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethyl Benzene	10	U	
126777-61-2	m,p-Xylenes	10	U	
95-47-6	o-Xylene	10	U	
100-42-5	Styrene	10	U	
75-25-2	Bromoform	10	U	
98-82-8	Isopropylbenzene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	J
120-82-1	1,2,4-Trichlorobenzene	10	U	

ATTACHMENT E
LABORATORY ANALYTICAL REPORT



Experience is the solution

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ERM - Northeast, Inc.
5788 Widewaters Parkway
Dewitt, New York 13214

Attention: David W. Myers



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

TITLE PAGE

On December 4, 2007 five water samples were received by Adirondack Environmental Services, Inc. from ERM at the Axelrod Institute site. These samples were analyzed for Volatile Organics in accordance with methodology as detailed by the contract. The project was completed on December 26, 2007.

A handwritten signature in black ink, appearing to read "Christopher He", is written over a horizontal line.

Laboratory QA Manager

Date:

A handwritten date "12/26/07" in black ink is written over a horizontal line.



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SAMPLE DATA
SUMMARY PACKAGE

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY

Customer Sample Code	Laboratory Sample Code	*VOA GC/MS Method	*BNA GC/MS Method	*PCB GC Method	*Pest GC Method	*Metals	*Other CN
AX-MW-11S (120407)	071204030-001	X					
AX-MW-8S (120407)	071204030-002	X					
AX-MW-9S (120407)	071204030-003	X					
AX-Dupe (120407)	071204030-004	X					
AX-TB (120407)	071204030-005	X					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE (VOA)
ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
071204030-001	WATER	12/4/07	12/4/07	N/A	12/7/07
071204030-002	WATER	12/4/07	12/4/07	N/A	12/7/07
071204030-003	WATER	12/4/07	12/4/07	N/A	12/7/07
071204030-004	WATER	12/4/07	12/4/07	N/A	12/7/07
071204030-005	WATER	12/4/07	12/4/07	N/A	12/7/07



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Case Narrative

Client: ERM – Axelrod Institute

Case: ERM 0701

SDG: AX-MW-8S (120407)

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
AX-MW-11S (120407)	071204030-001	12/04/07	11:16	Water
AX-MW-8S (120407)	071204030-002	12/04/07	11:16	Water
AX-MW-9S (120407)	071204030-003	12/04/07	11:16	Water
AX-Dupe (120407)	071204030-004	12/04/07	11:16	Water
AX-TB (120407)	071204030-005	12/04/07	11:16	Water

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for EPA CLP.
- 2) The samples received on 12/4/07 had a temperature of 3 °C.
- 3) The water samples were preserved with HCl to a pH of less than 2. All samples were analyzed within the required holding times.
- 4) The %RSD's for the compounds Dibromochloromethane and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 11/30/07 were outside the criteria established by the method. The %RSD's for these compounds were 23.7 % and 28.1 %, respectively. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was below 40 % and the RRF was greater than 0.010 for these compounds.
- 5) Sample AX-MW-11S (AES sample number 071204030-001) was used for the matrix spike and matrix spike duplicate analysis. All recoveries were within acceptable limits.
- 6) The column used in Instrument E for analysis was an RTX-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carboxen C&B / Carboxen 1000 & 1001.



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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

A handwritten signature in black ink, appearing to read "C. H. H.", is written over a horizontal line.

Laboratory QA Manager

Date: 12/25/07

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3522.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3522.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-003A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3523.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-003A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3523.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (Matrix (soil/water): WATERLab Sample ID: 071204030-001ASample wt/vol: 5.0 (g/mL) mlLab File ID: E3521.D

Level (low/med): _____

Date Received: 12/4/07% Moisture: not dec. 100Date Analyzed: 12/7/07GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3521.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES

Case No.: ERM0701

SAS No.: _____

SDG No.: _____

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-004A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3524.D

Level (low/med): _____

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-BS (Matrix (soil/water): WATERLab Sample ID: 071204030-004ASample wt/vol: 5.0 (g/mL) mlLab File ID: E3524.D

Level (low/med): _____

Date Received: 12/4/07% Moisture: not dec. 100Date Analyzed: 12/7/07GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-TB (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-005A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3525.D

Level (low/med): _____

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	18		
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-TB (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-BS (Matrix (soil/water): WATERLab Sample ID: 071204030-005ASample wt/vol: 5.0 (g/mL) mlLab File ID: E3525.D

Level (low/med): _____

Date Received: 12/4/07% Moisture: not dec. 100Date Analyzed: 12/7/07GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES

CASE No.: ERM0701

SAS No.: _____

SDG NO.: AX-MW-8S (1

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
01	VBLK01	109	89	97		0
02	AX-MW-11S (120407)	112	89	97		0
03	AX-MW-8S (120407)	114	93	96		0
04	AX-MW-9S (120407)	114	93	96		0
05	AX-DUPE (120407)	113	89	95		0
06	AX-TB (120407)	113	89	99		0
07	AX-MW-11S (120407)MS	118 *	89	99		1
08	AX-MW-11S (120407)MSD	120 *	88	96		1
09	VMSB	116 *	91	99		1

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4

(76-114)

SMC2 (TOL) = Toluene-d8

(88-110)

SMC3 (BFB) = Bromofluorobenzene

(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC Limits

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Matrix Spike - EPA Sample No: AX-MW-11S (120407)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1-Dichloroethene	50	0	70	140	(61-145)
Benzene	50	0	50	100	(76-127)
Trichloroethene	50	0	48	96	(71-120)
Toluene	50	0	57	114	(76-125)
Chlorobenzene	50	0	58	116	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC # % RPD #		QC LIMITS RPD REC	
1,1-Dichloroethene	50	70	140	0	14	(61-145)
Benzene	50	47	94	6	11	(76-127)
Trichloroethene	50	45	90	6	14	(71-120)
Toluene	50	56	112	2	13	(76-125)
Chlorobenzene	50	57	114	2	13	(75-130)

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

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8SLaboratory Control Spike - EPA Sample No: V

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS % REC#	QC LIMIT REC
1,1-Dichloroethene	50		67	134	(61-145)
Benzene	50		59	118	(76-127)
Trichloroethene	50		57	114	(71-120)
Toluene	50		60	120	(76-125)
Chlorobenzene	50		60	120	(75-130)

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

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limitsComments: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ERM0701

SAS No.:

SDG NO.: AX-MW-8S (1204

Lab File ID: EB393.D

Lab Sample ID: VBLK

Date Analyzed: 12/7/2007

Time Analyzed: 11:00

GC Column: DB624 ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOAE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
AX-MW-11S (120407)	071204030-001A	E3521.D	11:24
AX-MW-8S (120407)	071204030-002A	E3522.D	11:47
AX-MW-9S (120407)	071204030-003A	E3523.D	12:11
AX-DUPE (120407)	071204030-004A	E3524.D	12:34
AX-TB (120407)	071204030-005A	E3525.D	12:58
AX-MW-11S (120407)MS	071204030-001AMS	E3526.D	13:22
AX-MW-11S (120407)MSD	071204030-001AMSD	E3527.D	13:45
VMSEB	VMSEB	E3528.D	14:09

COMMENTS:

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: EB393.D

Level (low/med): _____

Date Received: _____

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK01

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-BS (

Matrix (soil/water): WATER

Lab Sample ID: VBK

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: EB393.D

Level (low/med):

Date Received:

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____
 Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S
 Lab File ID: ES393.D Date Analyzed: 12/7/2007
 Instrument ID: MSVOAE Time Analyzed: 10:38
 GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	17916	3.99	139603	5.26	117534	8.23
UPPER LIMIT	35832	4.49	279206	5.76	235068	8.73
LOWER LIMIT	8958	3.49	69802	4.76	58767	7.73
SAMPLE NO.						
VBLK01	12138	3.99	109832	5.26	115438	8.23
AX-MW-11S (120407)	10911	4.00	100374	5.26	107076	8.23
AX-MW-8S (120407)	10508	4.00	98124	5.26	108262	8.23
AX-MW-9S (120407)	10078	4.00	89526	5.26	100079	8.23
AX-DUPE (120407)	10057	4.00	89115	5.26	98287	8.23
AX-TB (120407)	10170	4.00	90905	5.26	98679	8.23
AX-MW-11S (120407)	9853	4.00	140354	5.26	98789	8.23
AX-MW-11S (120407)	10156	3.99	147759	5.26	102228	8.23
VMSB	9749	4.00	119094	5.26	96344	8.23

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

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

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

* Values outside of QC limits.

Form VIII VOA-1

: 00020

SAMPLE DATA

PACKAGE



Experience is the solution

314 North Pearl Street • Albany, New York 12207 • 800-848-4983 • (518) 434-4546 • Fax (518) 434-0891

Case Narrative

Client: ERM – Axelrod Institute

Case: ERM 0701

SDG: AX-MW-8S (120407)

<u>Sample ID</u>	<u>Laboratory Sample ID</u>	<u>Date Received</u>	<u>VTSR</u>	<u>Matrix</u>
AX-MW-11S (120407)	071204030-001	12/04/07	11:16	Water
AX-MW-8S (120407)	071204030-002	12/04/07	11:16	Water
AX-MW-9S (120407)	071204030-003	12/04/07	11:16	Water
AX-Dupe (120407)	071204030-004	12/04/07	11:16	Water
AX-TB (120407)	071204030-005	12/04/07	11:16	Water

Volatile Organics

- 1) The samples were analyzed using EPA Method 8260 following the criteria for EPA CLP.
- 2) The samples received on 12/4/07 had a temperature of 3 °C.
- 3) The water samples were preserved with HCl to a pH of less than 2. All samples were analyzed within the required holding times.
- 4) The %RSD's for the compounds Dibromochloromethane and 1,2,4-Trichlorobenzene in the initial calibration analyzed on 11/30/07 were outside the criteria established by the method. The %RSD's for these compounds were 23.7 % and 28.1 %, respectively. According to the protocol, two volatile organic compounds may exceed the %RSD limit of 20.5 % as long as the %RSD is less than 40 % and the RRF is above 0.010. The %RSD was below 40 % and the RRF was greater than 0.010 for these compounds.
- 5) Sample AX-MW-11S (AES sample number 071204030-001) was used for the matrix spike and matrix spike duplicate analysis. All recoveries were within acceptable limits.
- 6) The column used in Instrument E for analysis was an RTX-624, 20 meters long with an internal diameter of 0.18 mm. The trap used for this instrument is a VOCARB 4000 with Carboxen C&B / Carboxen 1000 & 1001.



Experience is the solution

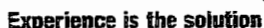
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"I certify that this data package is in compliance with the terms and conditions of the protocol, both technically and for completeness, to the best of my knowledge, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

A handwritten signature in black ink, appearing to read "C. H. H.", is written over a horizontal line.

Laboratory QA Manager

Date: 12/26/07



A full service analytical research laboratory offering solutions to environmental concerns

AES Work Order #

071204 030

[illegible]

Shipment Arrived Via: FedEx UPS <u>Client</u> AES Other: _____		CC Report To / Special Instructions/Remarks: ASP Level B deliverables	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) <i>[Signature]</i>		Received by: (Signature) _____ Date/Time _____	
Relinquished by: (Signature) _____		Received by: (Signature) _____ Date/Time _____	
Relinquished by: (Signature) _____		Received for Laboratory by: <i>A. Makuchi</i> Date/Time <i>12/4/07 11:16AM</i>	
TEMPERATURE Ambient or <u>Chilled</u> Notes: <u>3°C</u>		PROPERLY PRESERVED <u>Y</u> N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes: _____	

PINK - Generator Copy

Adirondack Environmental Services, Inc.

: 00024

Adirondack Environmental Services, Inc

314 N. Pearl St.
Albany, NY 12207
(518) 434-4546

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 071204030

Client:

ERM

5788 Widewaters Parkway
Dewitt, NY 13214

TEL: (315) 445-2554

FAX: (315) 445-2543

ProjectNo:

PO:

04-Dec-07

Sample ID	ClientSampleID	Matrix	Collection Date	Bottle	Requested Tests		
					A_8260_WAT		

071204030-005	AX-TB (120407)	Water	12/4/2007		A		
071204030-004	AX-DUPE (120407)	Water	12/4/2007		A		
071204030-003	AX-MW-9S (120407)	Water	12/4/2007		A		
071204030-002	AX-MW-8S (120407)	Water	12/4/2007		A		
071204030-001	AX-MW-11S (120407)	Water	12/4/2007		A		

Comments:

Date/Time	Date/Time
Relinquished by: <i>J. Michael</i>	Received by: <i>N. P. P.</i>
Relinquished by:	Received by:
Relinquished by:	Received by:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

: 00025

VOLATILE ORGANICS
ANALYSIS

QC
SUMMARY

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES CASE No.: ERM0701 SAS No.: _____ SDG NO.: AX-MW-BS (1

	EPA Sample NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	SMC4	TOT OUT
01	VBLK01	109	89	97		0
02	AX-MW-11S (120407)	112	89	97		0
03	AX-MW-BS (120407)	114	93	96		0
04	AX-MW-9S (120407)	114	93	96		0
05	AX-DUPE (120407)	113	89	95		0
06	AX-TB (120407)	113	89	99		0
07	AX-MW-11S (120407)MS	118 *	89	99		1
08	AX-MW-11S (120407)MSD	120 *	88	96		1
09	VMSB	116 *	91	99		1

QC LIMITS

SMC1 (DCE) = 1,2-Dichloroethane-d4 (76-114)
 SMC2 (TOL) = Toluene-d8 (88-110)
 SMC3 (BFB) = Bromofluorobenzene (86-115)

Column to be used to flag recovery values
 * Values outside of contract required QC Limits

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: ERM0701

SAS No.: _____

SDG No.: AX-MW-8SMatrix Spike - EPA Sample No: AX-MW-11S (120407)

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC#	QC LIMIT REC
1,1-Dichloroethene	50	0	70	140	(61-145)
Benzene	50	0	50	100	(76-127)
Trichloroethene	50	0	48	96	(71-120)
Toluene	50	0	57	114	(76-125)
Chlorobenzene	50	0	58	116	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC # % RPD #		QC LIMITS RPD REC	
1,1-Dichloroethene	50	70	140	0	14	(61-145)
Benzene	50	47	94	6	11	(76-127)
Trichloroethene	50	45	90	6	14	(71-120)
Toluene	50	56	112	2	13	(76-125)
Chlorobenzene	50	57	114	2	13	(75-130)

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

RPD: 0 out of 5 outside limitsSpike Recovery: 0 out of 10 outside limits

Comments: _____

WATER VOLATILE LABORATORY CONTROL SAMPLE/LABORATORY CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: AES, Inc.

Contract: _____

Lab Code: AESCase No.: ERM0701

SAS No.: _____

SDG No.: AX-MW-8SLaboratory Control Spike - EPA Sample No: V

COMPOUND	SPIKE ADDED (ug/L)		LCS CONCENTRATION (ug/L)	LCS	QC
				% REC#	LIMIT REC
1,1-Dichloroethene	50		67	134	(61-145)
Benzene	50		59	118	(76-127)
Trichloroethene	50		57	114	(71-120)
Toluene	50		60	120	(76-125)
Chlorobenzene	50		60	120	(75-130)

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

RPD: 0 out of 0 outside limitsSpike Recovery: 0 out of 5 outside limitsComments: _____

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc. Contract: _____
Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG NO.: AX-MW-8S (1204
Lab File ID: EB393.D Lab Sample ID: VBLK
Date Analyzed: 12/7/2007 Time Analyzed: 11:00
GC Column: DB624 ID: 0.18 (mm) Heated Purge: (Y/N) N
Instrument ID: MSVOAE

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
AX-MW-11S (120407)	071204030-001A	E3521.D	11:24
AX-MW-8S (120407)	071204030-002A	E3522.D	11:47
AX-MW-9S (120407)	071204030-003A	E3523.D	12:11
AX-DUPE (120407)	071204030-004A	E3524.D	12:34
AX-TB (120407)	071204030-005A	E3525.D	12:58
AX-MW-11S (120407)MS	071204030-001AMS	E3526.D	13:22
AX-MW-11S (120407)MSD	071204030-001AMSD	E3527.D	13:45
VMSB	VMSB	E3528.D	14:09

COMMENTS: _____

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: AES, Inc. Contract: _____
 Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG NO.: AX-MW-8
 Lab File ID: ET382.D BFB Injection Date: 11/30/2007
 Instrument ID: MSVOAE BFB Injection Time: 09:18
 GC Column: DB624 ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.2
75	30.0 - 60.0% of mass 95	47.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.7
173	Less than 2.0% of mass 174	0.4 (0.8) 1
174	50.0 - 100.0% of mass 95	55.1
175	5.0 - 9.0% of mass 174	3.7 (6.8) 1
176	95.0 - 101.0% of mass 174	53.8 (97.7) 1
177	5.0 - 9.0% of mass 176	3.9 (7.3) 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
VSTD010	VSTD010	ES384.D	11/30/2007	10:31
VSTD020	VSTD020	ES385.D	11/30/2007	11:22
VSTD050	VSTD050	ES386.D	11/30/2007	11:43
VSTD100	VSTD100	ES387.D	11/30/2007	12:05
VSTD200	VSTD200	ES388.D	11/30/2007	12:26

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701

SAS No.: _____

SDG NO.: AX-MW-8Lab File ID: ET393.DBFB Injection Date: 12/7/2007Instrument ID: MSVOAEBFB Injection Time: 10:14GC Column: DB624 ID: 0.18 (mm)Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (0.5) 1
174	50.0 - 100.0% of mass 95	86.6
175	5.0 - 9.0% of mass 174	6.2 (7.2) 1
176	95.0 - 101.0% of mass 174	82.3 (95.1) 1
177	5.0 - 9.0% of mass 176	5.1 (6.1) 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
VSTD050-1	VSTD050	ES393.D	12/7/2007	10:38
VBLK01	VBLK	EB393.D	12/7/2007	11:00
AX-MW-11S (120407)	071204030-001A	E3521.D	12/7/2007	11:24
AX-MW-8S (120407)	071204030-002A	E3522.D	12/7/2007	11:47
AX-MW-9S (120407)	071204030-003A	E3523.D	12/7/2007	12:11
AX-DUPE (120407)	071204030-004A	E3524.D	12/7/2007	12:34
AX-TB (120407)	071204030-005A	E3525.D	12/7/2007	12:58
AX-MW-11S (120407)MS	071204030-001AMS	E3526.D	12/7/2007	13:22
AX-MW-11S (120407)MSD	071204030-001AMSD	E3527.D	12/7/2007	13:45
VMSB	VMSB	E3528.D	12/7/2007	14:09

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Lab File ID: ES393.D Date Analyzed: 12/7/2007

Instrument ID: MSVOAE Time Analyzed: 10:38

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	17916	3.99	139603	5.26	117534	8.23
UPPER LIMIT	35832	4.49	279206	5.76	235068	8.73
LOWER LIMIT	8958	3.49	69802	4.76	58767	7.73
SAMPLE NO.						
VBLK01	12138	3.99	109832	5.26	115438	8.23
AX-MW-11S (120407)	10911	4.00	100374	5.26	107076	8.23
AX-MW-8S (120407)	10508	4.00	98124	5.26	108262	8.23
AX-MW-9S (120407)	10078	4.00	89526	5.26	100079	8.23
AX-DUPE (120407)	10057	4.00	89115	5.26	98287	8.23
AX-TB (120407)	10170	4.00	90905	5.26	98679	8.23
AX-MW-11S (120407)	9853	4.00	140354	5.26	98789	8.23
AX-MW-11S (120407)	10156	3.99	147759	5.26	102228	8.23
VMSB	9749	4.00	119094	5.26	96344	8.23

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

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

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

* Values outside of QC limits.

Form VIII VOA-1

: 00034

Volatile Organics IDL - Instrument E

Date Analyzed:

1/18/2007

Analyte	IDL 1	IDL 2	IDL 3	IDL 4	IDL 5	IDL 6	IDL 7	IDL 8	IDL 9	Std Dev	IDL
Vinyl acetate	18.00	18.49	17.46	19.99	18.71	19.35	18.71	15.62	17.50	1.26811	3.672
Chloromethane	18.13	17.86	15.99	17.33	15.93	17.71	16.99	17.06	15.79	0.88441	2.561
Bromomethane	20.55	19.94	18.43	20.10	17.47	21.57	18.51	18.90	17.56	1.39788	4.048
Vinyl chloride	16.34	17.78	15.07	14.73	15.07	17.37	16.80	15.55	14.74	1.16727	3.380
Chloroethane	23.25	21.52	20.33	20.89	20.45	22.89	22.54	21.27	20.03	1.17908	3.415
Methylene chloride	19.14	18.12	18.80	18.00	17.46	20.64	20.06	19.15	20.55	1.13742	3.294
Acetone	21.71	22.30	17.55	22.93	23.03	25.77	23.66	20.19	21.77	2.29423	6.644
Carbon disulfide	18.12	16.85	15.90	15.92	15.98	17.34	17.20	16.61	16.74	0.74671	2.162
1,1-Dichloroethene	17.23	17.83	15.91	16.03	15.32	18.22	17.46	16.79	17.09	0.95564	2.768
1,1-Dichloroethane	18.99	18.44	17.00	17.54	16.83	19.04	18.47	17.92	17.86	0.79701	2.308
trans-1,2-Dichloroethene	18.66	17.54	16.06	16.93	16.59	18.38	18.22	16.54	17.35	0.91122	2.639
cis-1,2-Dichloroethene	18.18	17.50	15.96	16.48	16.26	17.94	17.51	16.29	16.46	0.82627	2.393
Chloroform	18.82	18.75	17.44	17.47	16.90	19.10	18.17	17.64	17.81	0.74523	2.158
1,2-Dichloroethane	18.49	18.67	18.17	18.00	17.48	19.27	19.05	17.59	17.77	0.63598	1.842
2-Butanone	17.32	18.10	17.22	19.70	18.87	19.13	18.55	15.77	17.53	1.19880	3.472
1,1,1-Trichloroethane	17.50	17.77	16.21	16.81	16.36	18.13	17.79	17.05	16.80	0.67381	1.951
Carbon tetrachloride	17.67	17.69	16.30	16.56	16.61	16.85	16.73	16.99	17.79	0.55636	1.611
Bromodichloromethane	18.54	17.41	17.03	18.02	17.37	19.40	18.72	17.77	17.78	0.75477	2.186
1,2-Dichloropropane	19.00	18.30	17.76	17.39	17.79	19.15	18.80	17.85	18.04	0.61944	1.794
cis-1,3-Dichloropropene	15.89	15.96	15.25	15.94	14.88	16.67	16.11	15.94	15.31	0.53712	1.555
Trichloroethene	17.61	17.10	16.20	16.91	16.79	18.11	17.76	16.36	16.72	0.64587	1.870
Dibromochloromethane	18.36	18.17	17.42	18.00	17.66	18.86	18.43	17.20	17.65	0.53509	1.550
1,1,2-Trichloroethane	17.94	18.64	17.48	18.86	17.95	18.64	18.83	18.37	18.71	0.48291	1.399
Benzene	18.03	18.06	16.73	17.10	17.15	18.73	18.27	17.70	17.47	0.64033	1.854
trans-1,3-Dichloropropene	15.05	15.48	15.03	14.94	14.85	16.40	15.26	15.06	14.43	0.54383	1.575
Bromoform	17.13	17.41	17.68	17.77	17.73	18.97	17.61	17.22	17.71	0.53223	1.541
4-Methyl-2-pentanone	19.25	20.57	20.87	20.22	19.76	20.39	20.07	17.97	19.12	0.89795	2.600
2-Hexanone	15.63	16.76	15.19	15.60	13.99	16.65	14.94	13.58	14.85	1.06904	3.096
Tetrachloroethene	17.88	16.79	15.24	15.02	15.29	16.44	16.45	15.45	16.50	0.93704	2.714
1,1,2,2-Tetrachloroethane	18.36	19.26	18.84	17.93	18.73	19.85	19.72	17.17	19.14	0.85773	2.484
Toluene	19.89	19.07	17.27	17.03	17.31	18.16	18.29	17.31	18.18	0.95238	2.758
Chlorobenzene	19.71	18.87	17.35	17.32	16.94	17.83	18.37	17.06	17.86	0.91553	2.651
Ethylbenzene	18.52	17.65	15.61	16.28	16.14	17.17	17.48	15.67	17.29	0.99234	2.874
Styrene	19.17	18.22	16.60	16.54	16.48	17.91	18.30	16.99	17.21	0.95072	2.753
m,p-Xylene	36.99	36.30	31.58	32.39	31.29	34.84	35.13	32.09	33.70	2.10434	6.094
o-Xylene	18.60	17.16	15.51	15.56	15.26	17.00	16.68	15.88	16.31	1.05578	3.058
Methyl tert-butyl ether	19.78	19.67	19.01	19.92	19.07	19.77	18.86	18.56	19.12	0.48513	1.405
Dichlorodifluoromethane	20.73	20.46	16.11	17.11	17.78	17.09	17.42	16.58	16.73	1.66849	4.832
Methyl Acetate	17.14	19.42	19.55	19.90	19.35	19.99	19.85	17.86	18.48	1.00693	2.916
1,1,2-Trichloro-1,2,2-trifluoroethane	17.84	17.99	16.67	17.37	16.19	18.94	18.75	17.24	17.73	0.89225	2.584
Cyclohexane	16.42	15.46	14.00	13.83	14.14	16.67	15.60	14.83	14.59	1.03983	3.011
Trichlorofluoromethane	19.23	18.39	16.50	17.00	16.55	19.25	18.15	18.20	17.89	1.03539	2.998
Methyl Cyclohexane	12.96	12.99	12.42	12.22	12.53	14.38	13.08	12.39	12.56	0.65228	1.889
1,2-Dibromoethane	17.34	18.27	18.05	18.27	18.48	19.41	17.77	17.71	18.24	0.58454	1.693
1,3-Dichlorobenzene	16.86	15.57	13.72	13.87	13.65	15.08	15.09	13.57	14.99	1.10853	3.210
Isopropylbenzene	16.57	16.06	13.92	13.85	13.71	15.49	15.46	14.01	14.54	1.07064	3.101
1,2-Dichlorobenzene	18.23	17.04	15.51	14.80	15.36	16.10	16.49	15.09	16.06	1.07090	3.101
1,4-Dichlorobenzene	18.14	16.63	14.61	14.64	14.80	16.12	15.96	14.67	15.63	1.18580	3.434
1,2-Dibromo-3-chloropropane	16.74	17.06	16.81	16.42	16.98	16.63	18.03	14.31	16.37	0.98708	2.859
1,2,4-Trichlorobenzene	12.35	11.92	10.15	9.96	10.09	11.28	11.30	10.15	10.53	0.88273	2.556

Reviewed by QA Manager:

CPH H

Date:

1/23/07

SAMPLE

DATA

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3522.D

Level (low/med):

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	10	U	
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	10	U	
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	10	U	
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-8S (120407)

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER Lab Sample ID: 071204030-002A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: E3522.D

Level (low/med): _____ Date Received: 12/4/07

% Moisture: not dec. 100 Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

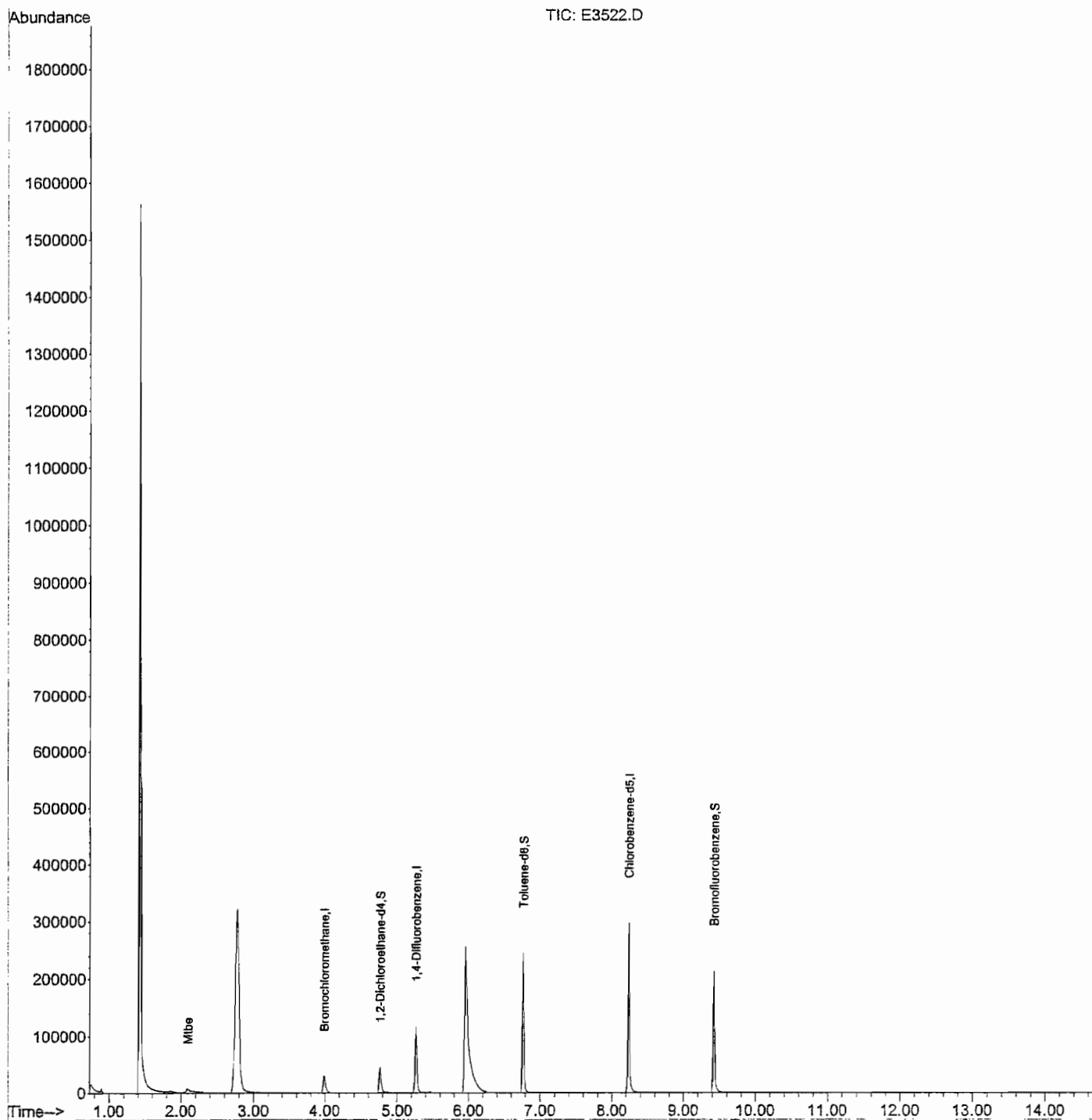
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3522.D
 Acq On : 7 Dec 2007 11:47 am
 Operator :
 Sample : 071204030-002A
 Misc : SAMP EPA_8260_WATER
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 11 11:11:06 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



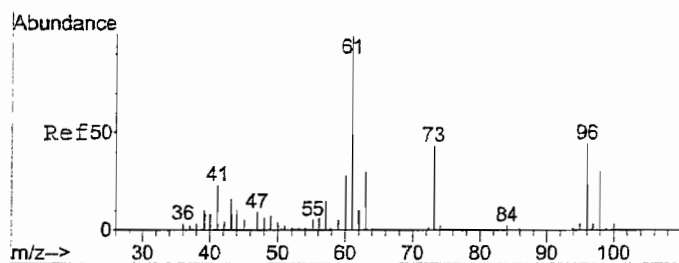
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3522.D
 Acq On : 7 Dec 2007 11:47 am
 Operator :
 Sample : 071204030-002A
 Misc : SAMP EPA_8260_WATER
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 11 11:11:06 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

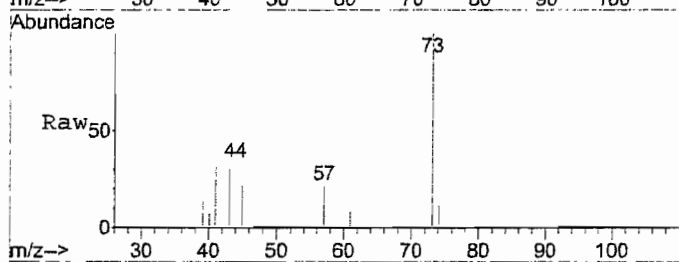
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	10508m	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	98124	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	108262	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	36891	56.94	ug	0.00
45) Toluene-d8	6.76	98	144813	46.54	ug	0.00
56) Bromofluorobenzene	9.42	95	73011	47.92	ug	0.00
Target Compounds						
16) Mtbe	2.10	73	5879	8.24	ug	Qvalue 90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

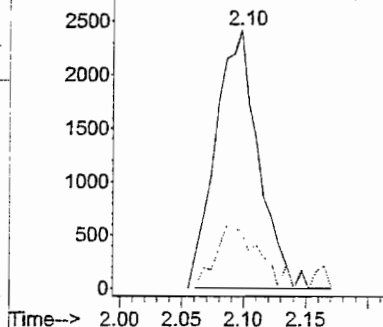
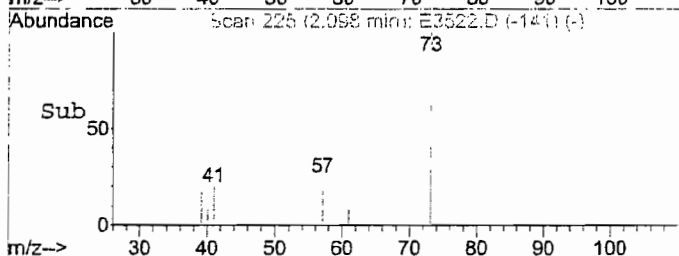


#16
 MtbE
 Concen: 8.24 ug
 RT: 2.10 min Scan# 225
 Delta R.T. 0.01 min
 Lab File: E3522.D
 Acq: 7 Dec 2007 11:47 am

Tgt Ion: 73 Resp: 5879
 Ion Ratio Lower Upper
 73 100
 57 23.2 22.7 34.1



Abundance Ion 73.10 (72.80 to 73.80): E3
 Ion 57.10 (56.80 to 57.80): E3



VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ERM0701

SAS No.:

SDG No.:

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-003A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3523.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-9S (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (Matrix (soil/water): WATERLab Sample ID: 071204030-003ASample wt/vol: 5.0 (g/mL) mlLab File ID: E3523.D

Level (low/med): _____

Date Received: 12/4/07Moisture: not dec. 100Date Analyzed: 12/7/07GC Column: DB624 ID: 0.18 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

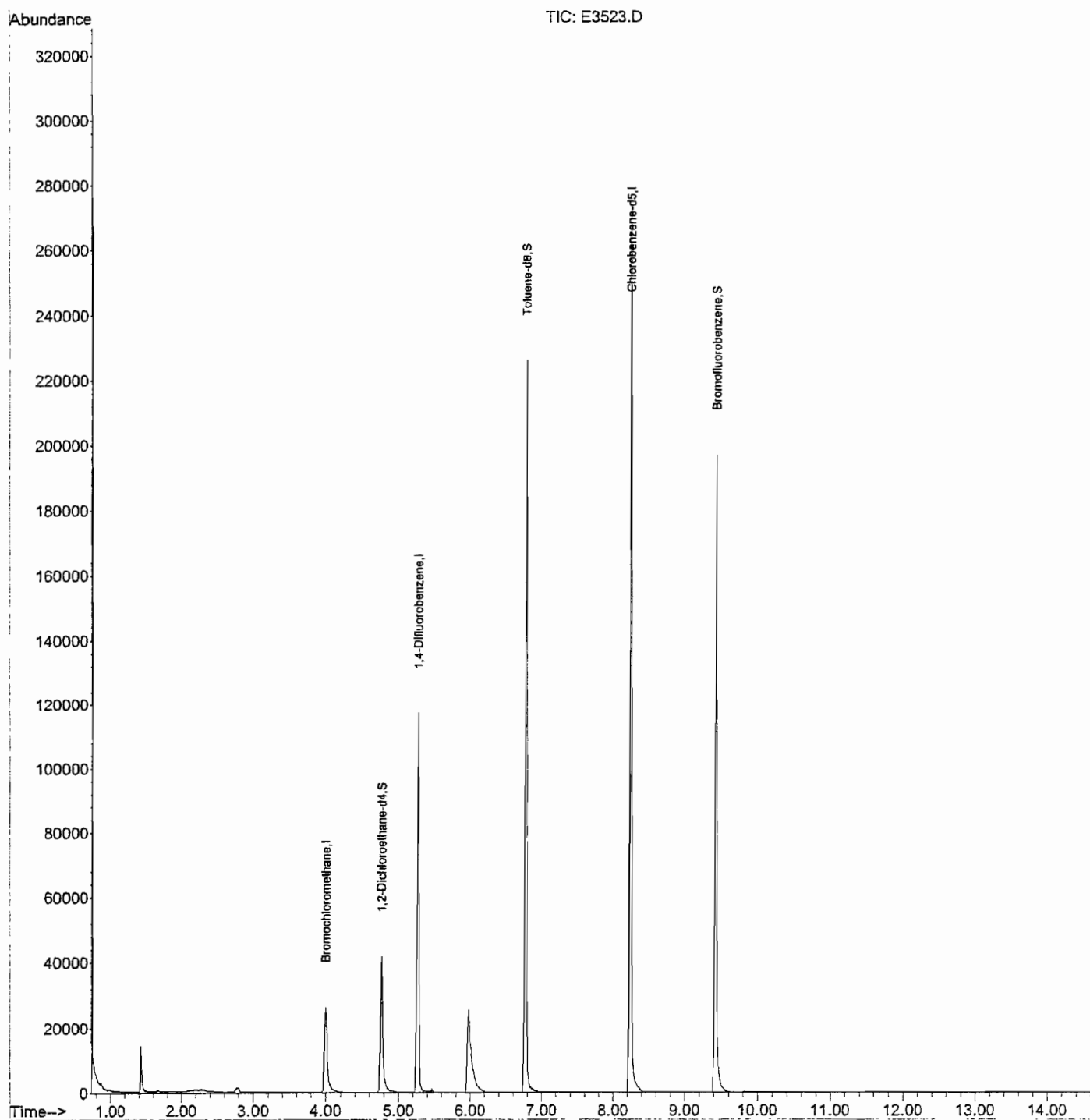
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3523.D
 Acq On : 7 Dec 2007 12:11 pm
 Operator :
 Sample : 071204030-003A
 Misc : SAMP EPA_8260 WATER
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 11:11:27 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3523.D
 Acq On : 7 Dec 2007 12:11 pm
 Operator :
 Sample : 071204030-003A
 Misc : SAMP EPA_8260_WATER
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 11 11:11:27 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	10078	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	89526	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	100079	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	35391	56.96	ug	0.00
45) Toluene-d8	6.76	98	133388	46.38	ug	0.00
56) Bromofluorobenzene	9.42	95	67284	47.77	ug	0.00

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3521.D

Level (low/med):

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropane		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3521.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

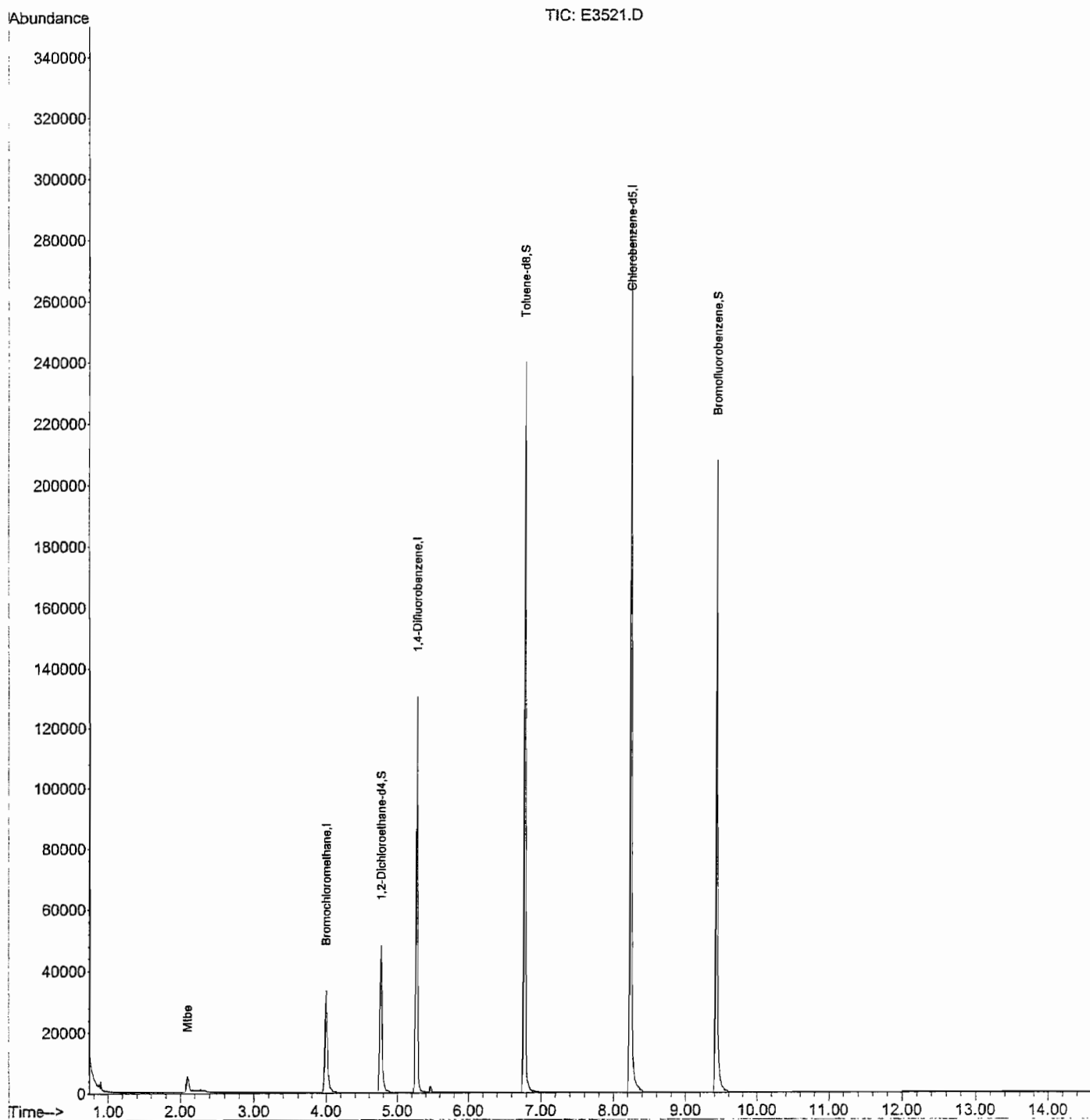
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3521.D
 Acq On : 7 Dec 2007 11:24 am
 Operator :
 Sample : 071204030-001A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 11 11:10:31 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3521.D
 Acq On : 7 Dec 2007 11:24 am
 Operator :
 Sample : 071204030-001A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 4 Sample Multiplier: 1

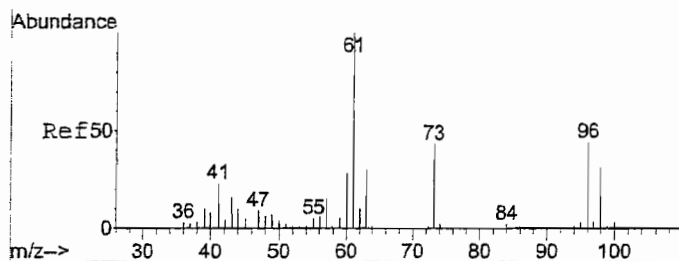
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 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	10911	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	100374	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	107076	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	37529	55.79	ug	0.00
45) Toluene-d8	6.76	98	137101	44.55	ug	0.00
56) Bromofluorobenzene	9.42	95	73198	48.57	ug	0.00

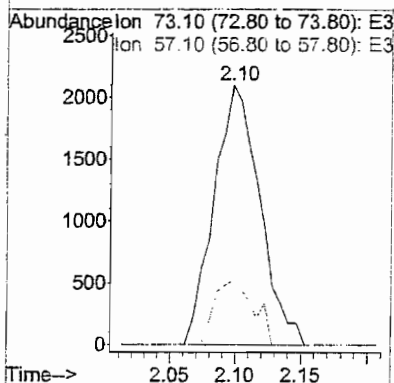
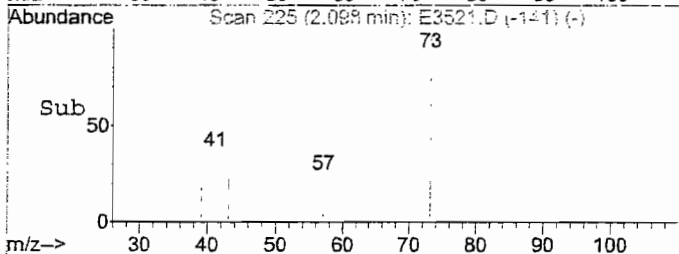
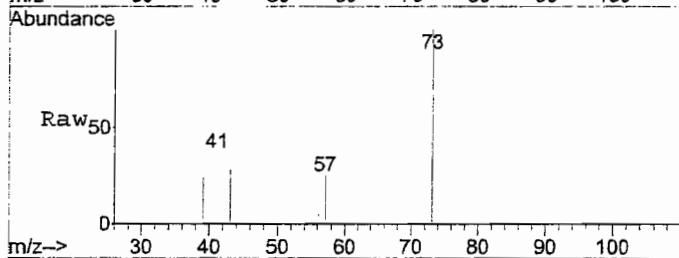
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Mtbe	2.10	73	5118	6.91	ug	# 87

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#16
MtbE
Concen: 6.91 ug
RT: 2.10 min Scan# 225
Delta R.T. 0.01 min
Lab File: E3521.D
Acq: 7 Dec 2007 11:24 am

Tgt Ion: 73 Resp: 5118
Ion Ratio Lower Upper
73 100
57 21.3 22.7 34.1#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER Lab Sample ID: 071204030-004A

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: E3524.D

Level (low/med): _____ Date Received: 12/4/07

% Moisture: not dec. 100 Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethane		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-DUPE (120407)

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES

Case No.: ERM0701

SAS No.: _____

SDG No.: _____

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-004A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3524.D

Level (low/med): _____

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

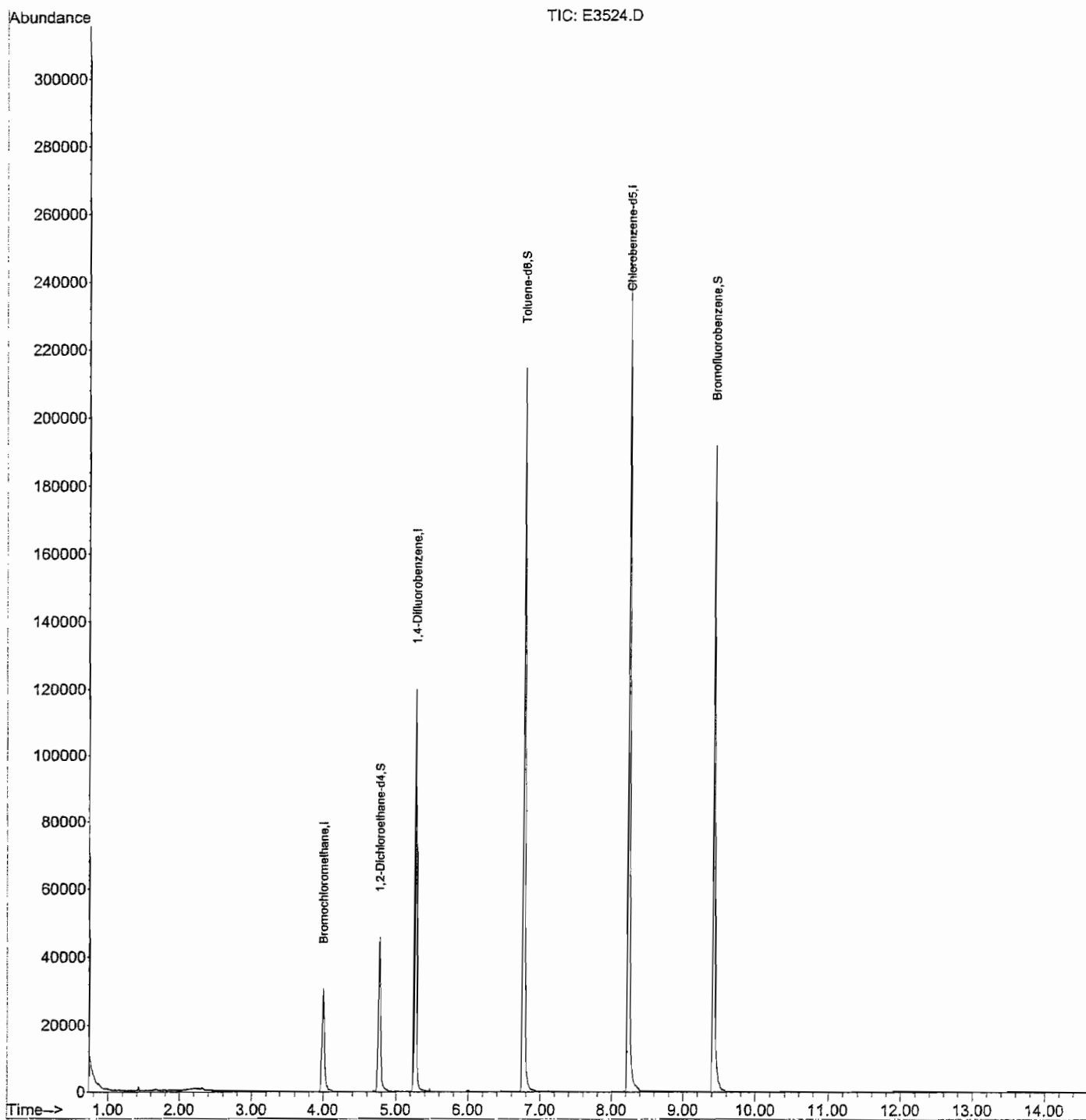
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3524.D
 Acq On : 7 Dec 2007 12:34 pm
 Operator :
 Sample : 071204030-004A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 11 11:11:48 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3524.D
 Acq On : 7 Dec 2007 12:34 pm
 Operator :
 Sample : 071204030-004A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 11 11:11:48 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	10057m	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	89115	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	98287	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	34939m	56.35	ug	0.00
45) Toluene-d8	6.76	98	125593m	44.46	ug	0.00
56) Bromofluorobenzene	9.42	95	65735	47.52	ug	0.00

Target Compounds	Qvalue
------------------	--------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-TB (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ERM0701

SAS No.:

SDG No.:

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-005A

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3525.D

Level (low/med):

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624

ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		18	
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-TB (120407)

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-005A

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3525.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

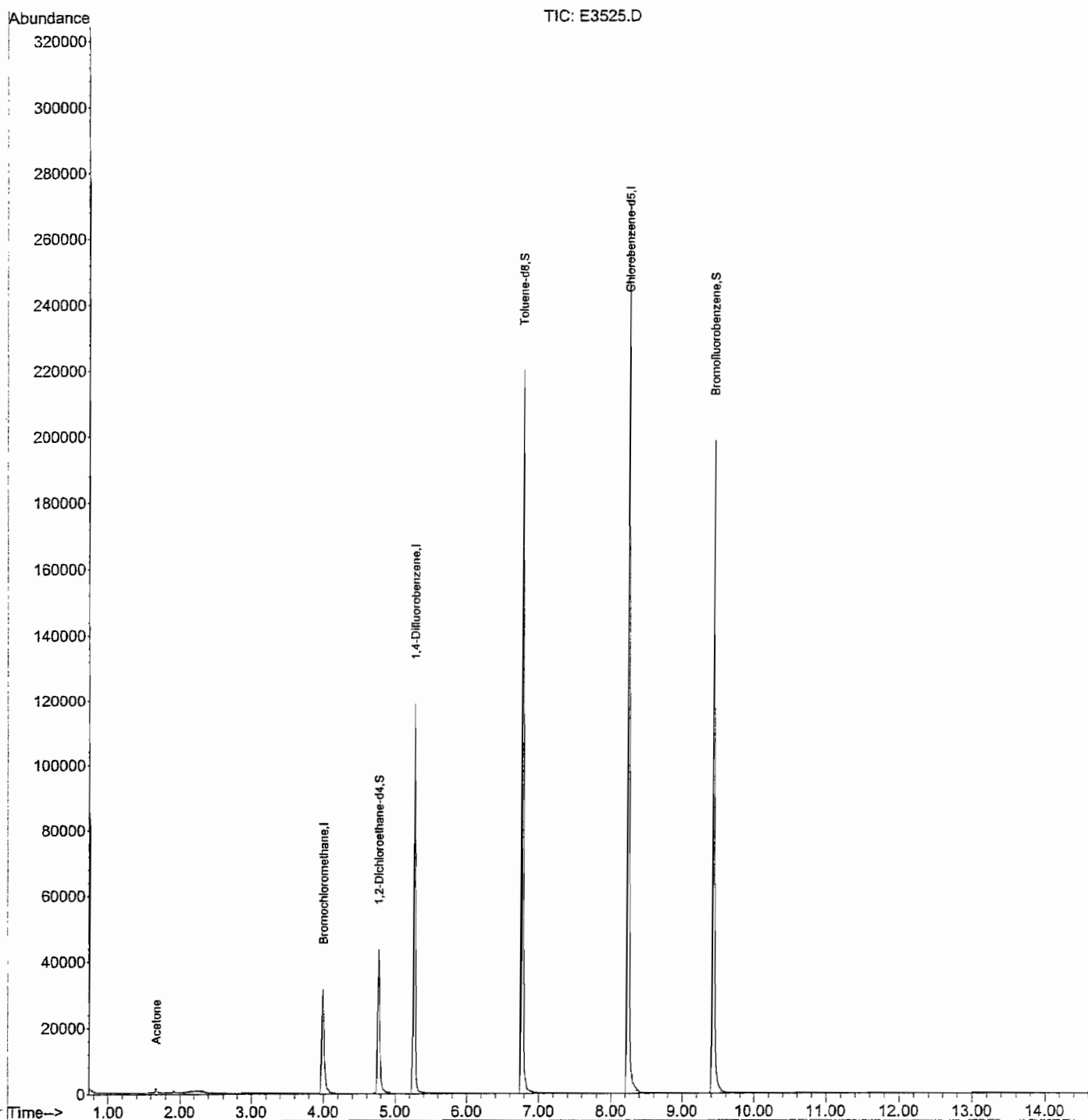
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3525.D
 Acq On : 7 Dec 2007 12:58 pm
 Operator :
 Sample : 071204030-005A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 07 13:13:59 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



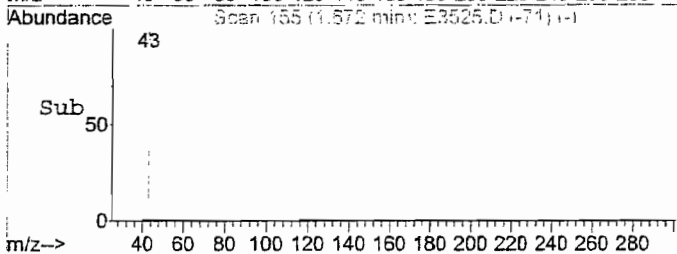
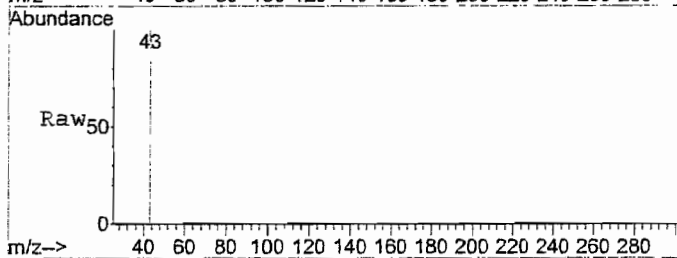
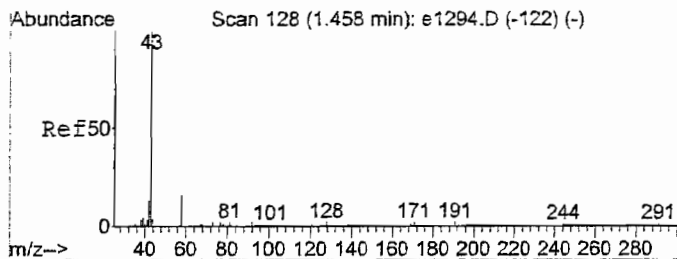
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3525.D
 Acq On : 7 Dec 2007 12:58 pm
 Operator :
 Sample : 071204030-005A
 Misc : SAMP EPA 8260 WATER
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 07 13:13:59 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

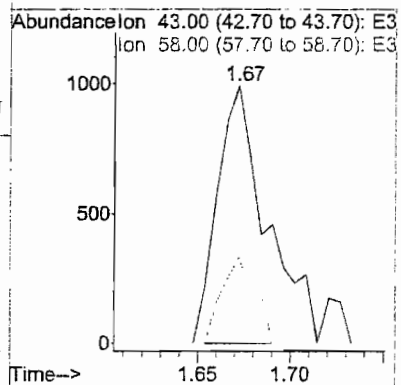
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	4.00	128	10170	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	90905	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	98679	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	35344m	56.37	ug	0.00
45) Toluene-d8	6.76	98	126716	44.68	ug	0.00
56) Bromofluorobenzene	9.42	95	68973	49.66	ug	0.00
Target Compounds						Qvalue
12) Acetone	1.67	43	1837	18.37	ug	77

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#12
 Acetone
 Concen: 18.37 ug
 RT: 1.67 min Scan# 155
 Delta R.T. 0.01 min
 Lab File: E3525.D
 Acq: 7 Dec 2007 12:58 pm

Tgt Ion: 43 Resp: 1837
 Ion Ratio Lower Upper
 43 100
 58 22.9 16.4 56.4



STANDARDS

DATA

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Instrument ID: MSVOAE Calibration Date(s): 11/30/2007 11/30/2007

Heated Purge: (Y/N) N Calibration Time(s): 10:31 12:26

GC Column: DB624 ID: 0.18 (mm)

LAB FILE ID:		RRF10 = ES384.D		RRF20 = ES385.D			
RRF50 = ES386.D		RRF100 = ES387.D		RRF200 = ES388.D			
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	3.495	4.559	5.131	4.208	3.576	4.194	16.4
Chloromethane *	3.559	4.672	5.007	4.205	3.553	4.199	15.5 *
Vinyl Chloride *	2.624	3.403	3.858	3.245	2.767	3.179	15.7 *
Bromomethane	1.161	1.313	1.238	1.030	1.018	1.152	11.2
Chloroethane	1.190	1.224	1.256	0.859	0.572	1.020	29.1
Trichlorofluoromethane	4.183	5.361	5.970	4.760	3.739	4.803	18.6
1,1-Dichloroethene *	1.551	1.874	2.057	1.862	1.517	1.772	13.0 *
1,1,2-Trichloro-1,2,2-t	1.970	2.202	2.481	2.231	1.858	2.148	11.3
Acetone	0.727	0.660	0.614	0.588	0.454	0.609	16.6
Carbon Disulfide	4.334	5.385	6.426	5.980	5.147	5.454	14.7
Methyl Acetate	1.056	1.322	1.418	1.324	1.049	1.234	13.8
Methylene Chloride	1.824	2.078	2.197	1.978	1.607	1.937	11.9
trans-1,2-Dichloroethen	2.272	2.582	3.130	2.819	2.417	2.644	12.8
Mtbe	3.302	3.836	4.345	4.319	4.027	3.966	10.8
1,1-Dichloroethane *	5.885	7.083	8.130	7.510	6.585	7.039	12.2 *
cis-1,2-Dichloroethene	3.671	4.693	5.659	5.356	5.030	4.882	15.7
2-Butanone	1.246	1.277	1.573	1.766	1.465	1.466	14.7
Chloroform *	5.609	6.545	7.627	6.882	6.147	6.562	11.6 *
1,1,1-Trichloroethane *	0.494	0.557	0.730	0.659	0.651	0.618	15.0 *
Cyclohexane	3.856	4.838	6.100	5.782	5.294	5.174	17.0
Carbon Tetrachloride *	0.355	0.449	0.495	0.495	0.496	0.458	13.3 *
Benzene *	1.504	1.737	2.167	1.906	1.814	1.826	13.3 *
1,2-Dichloroethane *	4.352	5.301	6.073	5.635	4.913	5.255	12.6 *
Trichloroethane *	0.336	0.383	0.485	0.421	0.418	0.409	13.3 *
Methylcyclohexane	0.639	0.707	0.899	0.806	0.789	0.768	12.9
1,2-Dichloropropane *	0.411	0.470	0.590	0.524	0.500	0.499	13.2 *
Bromodichloromethane *	0.372	0.468	0.615	0.586	0.572	0.523	19.3 *
cis-1,3-Dichloropropene *	0.354	0.456	0.575	0.575	0.575	0.507	19.7 *
4-Methyl-2-Pentanone	0.415	0.472	0.540	0.579	0.533	0.508	12.7
Toluene *	1.212	1.336	1.633	1.469	1.434	1.417	11.1 *
trans-1,3-Dichloropropene *	0.280	0.362	0.469	0.446	0.439	0.399	19.5 *
1,1,2-Trichloroethane *	0.309	0.345	0.431	0.386	0.361	0.366	12.4 *
Tetrachloroethene *	0.335	0.348	0.436	0.419	0.414	0.390	11.8 *
2-Hexanone	0.135	0.217	0.309	0.363	0.358	0.276	35.6
Dibromochloromethane *	0.216	0.280	0.398	0.371	0.382	0.330	23.7 *
1,2-Dibromoethane	0.294	0.328	0.361	0.328	0.308	0.324	7.8
Chlorobenzene *	1.364	1.421	1.727	1.575	1.557	1.529	9.3 *

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Instrument ID: MSVOAE Calibration Date(s): 11/30/2007 11/30/2007

Heated Purge: (Y/N) N Calibration Time(s): 10:31 12:26

GC Column: DB624 ID: 0.18 (mm)

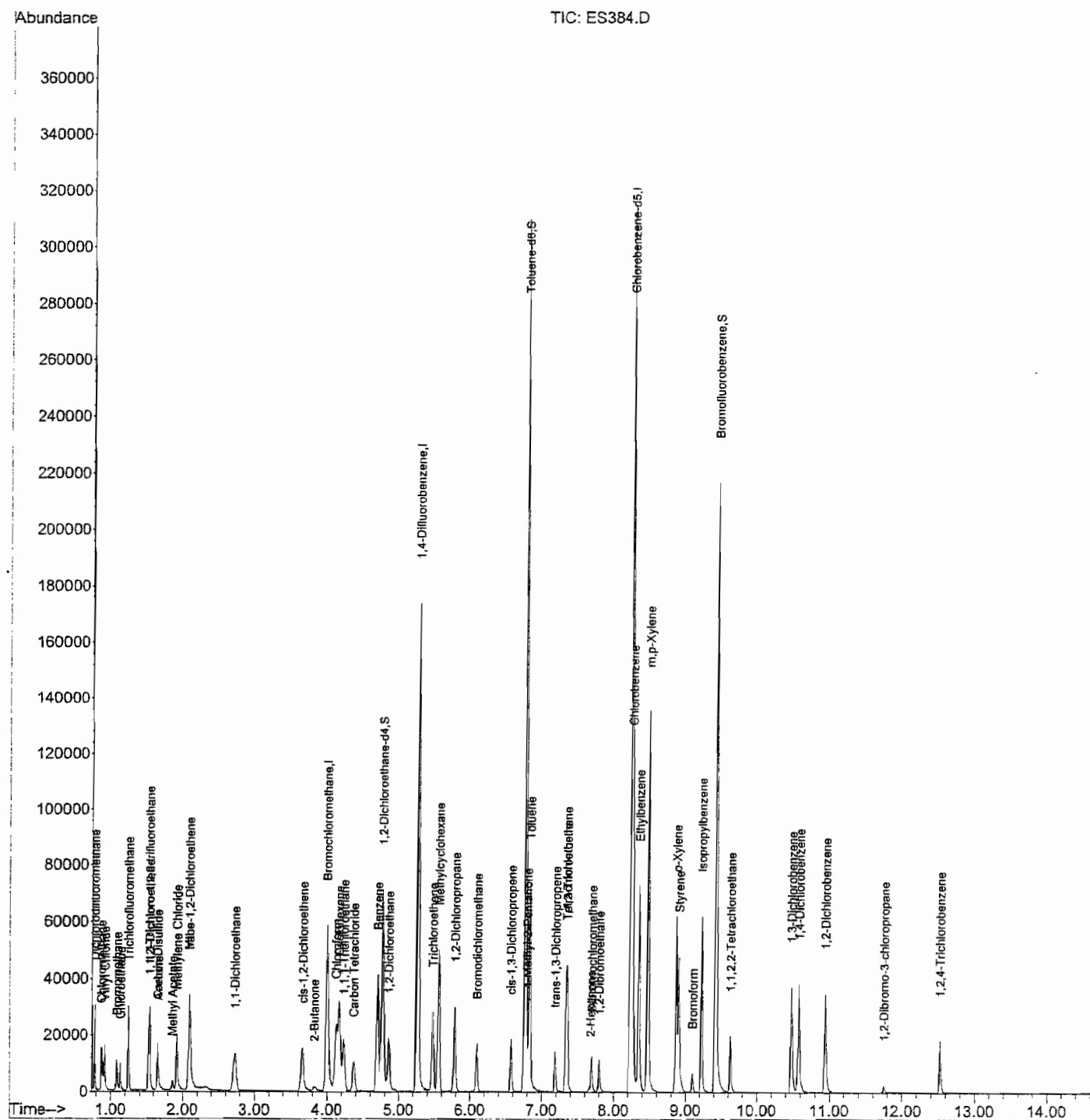
LAB FILE ID:		RRF10 = ES384.D			RRF20 = ES385.D			
RRF50 = ES386.D		RRF100 = ES387.D			RRF200 = ES388.D			
COMPOUND		RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Ethylbenzene	*	0.660	0.723	0.928	0.851	0.847	0.802	13.5
m,p-Xylene	*	1.790	1.899	2.424	2.260	2.406	2.156	13.6
o-Xylene	*	0.712	0.837	1.094	1.026	1.037	0.941	17.1
Styrene	*	1.049	1.251	1.679	1.560	1.571	1.422	18.5
Bromoform	*	0.115	0.143	0.173	0.184	0.193	0.162	19.7
Isopropylbenzene		1.794	2.113	2.777	2.589	2.632	2.381	17.3
1,1,2,2-Tetrachloroetha	*	0.505	0.583	0.701	0.690	0.612	0.618	13.1
1,3-Dichlorobenzene	*	0.728	0.806	1.097	1.069	1.109	0.962	18.8
1,4-Dichlorobenzene	*	0.806	0.884	1.158	1.120	1.155	1.024	16.3
1,2-Dichlorobenzene	*	0.681	0.762	1.024	0.991	0.998	0.891	17.7
1,2-Dibromo-3-chloropro		0.025	0.033	0.055	0.069	0.070	0.050	40.6
1,2,4-Trichlorobenzene	*	0.276	0.314	0.457	0.514	0.537	0.420	28.1
1,2-Dichloroethane-d4		2.986	3.233	3.375	3.051	2.644	3.058	9.1
Toluene-d8		1.660	1.631	1.585	1.680	1.669	1.645	2.3
Bromofluorobenzene	*	0.748	0.736	0.778	0.772	0.769	0.761	2.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

(QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\071130\  
Data File   : ES384.D  
Acq On      : 30 Nov 2007  10:31 am  
Operator    :  
Sample      : VSTD010  
Misc        :  
ALS Vial    : 4      Sample Multiplier: 1
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Quant Time: Nov 30 13:59:35 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Nov 09 13:48:02 2007
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\071130\

Data File : ES384.D

Acq On : 30 Nov 2007 10:31 am

Operator :

Sample : VSTD010

Misc :

ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:59:35 2007

Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M

Quant Title : VOA TCL list OLM4.1

QLast Update : Fri Nov 09 13:48:02 2007

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	3.99	128	18428	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	137477	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	108844	50.00	ug	0.00

System Monitoring Compounds

24) 1,2-Dichloroethane-d4	4.76	65	55034	38.35	ug	0.00
45) Toluene-d8	6.76	98	180678	42.81	ug	0.00
56) Bromofluorobenzene	9.41	95	81466	41.69	ug	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	0.78	85	12882	28.45	ug	99
3) Chloromethane	0.87	50	13118	10.70	ug	98
4) Vinyl Chloride	0.92	62	9671	9.23	ug	99
5) Bromomethane	1.08	96	4280	9.53	ug	96
6) Chloroethane	1.13	64	4385	10.84	ug	99
7) Trichlorofluoromethane	1.24	101	15417	7.93	ug	97
9) 1,1-Dichloroethene	1.54	96	5717	6.13	ug	# 86
10) 1,1,2-Trichloro-1,2,2-trif	1.53	101	7261	6.39	ug	92
11) Carbon Disulfide	1.65	76	15974	5.54	ug	100
12) Acetone	1.67	43	2681m	10.28	ug	
13) Methyl Acetate	1.86	43	3892	5.60	ug	# 91
14) Methylene Chloride	1.92	84	6724	6.88	ug	98
15) trans-1,2-Dichloroethene	2.09	96	8372	6.21	ug	89
16) Mtbe	2.09	73	12169	6.29	ug	89
18) 1,1-Dichloroethane	2.73	63	21688	6.56	ug	97
20) cis-1,2-Dichloroethene	3.66	61	13528	5.47	ug	# 80
22) Chloroform	4.12	83	20673	6.82	ug	97
23) Cyclohexane	4.17	84	14212	5.90	ug	# 75
25) 1,2-Dichloroethane	4.85	62	16038	5.76	ug	99
27) 2-Butanone	3.82	43	4593	7.77	ug	94
28) 1,1,1-Trichloroethane	4.23	97	13583	6.81	ug	87
29) Carbon Tetrachloride	4.37	117	9753m	7.00	ug	
30) Benzene	4.70	78	41365	7.10	ug	100
32) Trichloroethene	5.47	130	9248	7.65	ug	95
33) Methylcyclohexane	5.56	83	17571	7.24	ug	# 79
34) 1,2-Dichloropropane	5.78	63	11310	6.83	ug	99
35) Bromodichloromethane	6.09	83	10234	5.99	ug	91
36) cis-1,3-Dichloropropene	6.58	75	9729	6.12	ug	98
38) trans-1,3-Dichloropropene	7.18	75	7699	6.41	ug	93
40) 1,1,2-Trichloroethane	7.35	83	8499	7.48	ug	90
41) Dibromochloromethane	7.69	129	5945	6.19	ug	86
42) 1,2-Dibromoethane	7.80	107	8091	8.82	ug	97
43) Bromoform	9.09	173	3172	6.65	ug	90
46) 4-Methyl-2-Pentanone	6.80	43	9032	5.92	ug	# 60
47) Toluene	6.83	92	26392	6.59	ug	85
48) Tetrachloroethene	7.34	164	7282	6.95	ug	99
49) 2-Hexanone	7.67	43	2937m	3.54	ug	
50) Chlorobenzene	8.25	112	29696	7.06	ug	93
51) Ethylbenzene	8.35	106	14363	6.36	ug	# 81
52) m,p-Xylene	8.47	91	77917	11.61	ug	93
53) o-Xylene	8.86	106	15500	5.71	ug	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES384.D
 Acq On : 30 Nov 2007 10:31 am
 Operator :
 Sample : VSTD010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 30 13:59:35 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

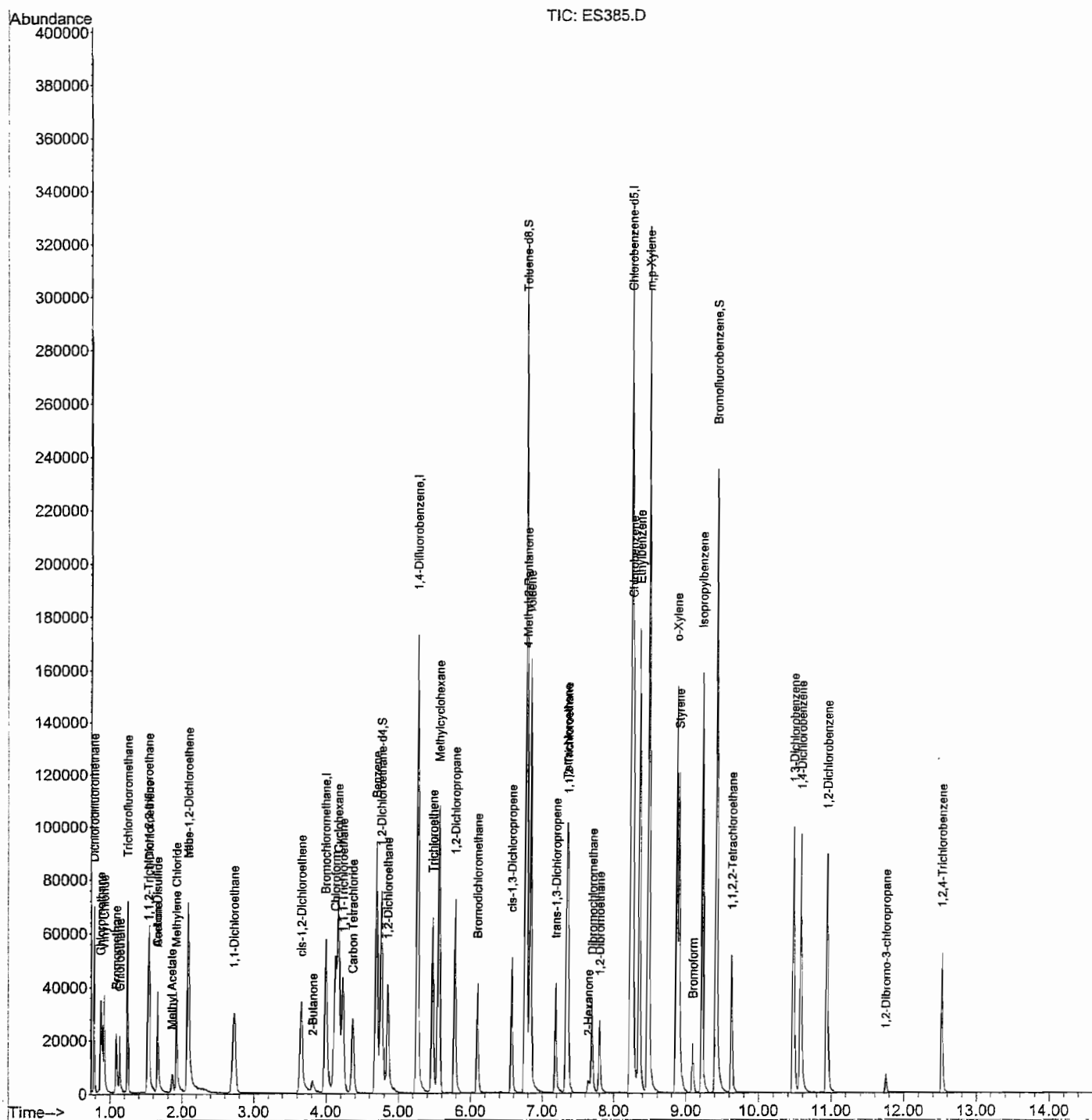
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Styrene	8.90	104	22842	5.56	ug	86
55) Isopropylbenzene	9.22	105	39063	5.56	ug	99
57) 1,1,2,2-Tetrachloroethane	9.62	83	10992	6.68	ug	99
58) 1,3-Dichlorobenzene	10.47	146	15843	5.92	ug	96
59) 1,4-Dichlorobenzene	10.57	146	17541	6.25	ug	98
60) 1,2-Dichlorobenzene	10.94	146	14826	6.02	ug	94
61) 1,2-Dibromo-3-chloropropan	11.76	157	542	5.19	ug	# 68
62) 1,2,4-Trichlorobenzene	12.52	180	6010m	5.61	ug	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES385.D
 Acq On : 30 Nov 2007 11:22 am
 Operator :
 Sample : VSTD020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:59:57 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES385.D
 Acq On : 30 Nov 2007 11:22 am
 Operator :
 Sample : VSTD020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:59:57 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	17124	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	137621	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	115023	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	55361	41.52	ug	0.00
45) Toluene-d8	6.76	98	187564	42.05	ug	0.00
56) Bromofluorobenzene	9.41	95	84658	41.00	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.78	85	31230	74.24	ug	99
3) Chloromethane	0.87	50	32002	28.09	ug	96
4) Vinyl Chloride	0.92	62	23307	23.94	ug	100
5) Bromomethane	1.08	96	8995m	21.55	ug	
6) Chloroethane	1.13	64	8386m	22.31	ug	
7) Trichlorofluoromethane	1.24	101	36721	20.32	ug	93
9) 1,1-Dichloroethene	1.54	96	12837	14.82	ug	# 81
10) 1,1,2-Trichloro-1,2,2-trif	1.52	101	15083	14.29	ug	94
11) Carbon Disulfide	1.65	76	36887	13.76	ug	100
12) Acetone	1.65	43	4524	18.66	ug	87
13) Methyl Acetate	1.85	43	9055	14.02	ug	94
14) Methylene Chloride	1.92	84	14232	15.66	ug	98
15) trans-1,2-Dichloroethene	2.08	96	17688	14.12	ug	94
16) Mtbe	2.09	73	26275	14.61	ug	93
18) 1,1-Dichloroethane	2.72	63	48517	15.80	ug	96
20) cis-1,2-Dichloroethene	3.66	61	32142	14.00	ug	87
22) Chloroform	4.12	83	44834	15.91	ug	97
23) Cyclohexane	4.16	84	33140	14.79	ug	# 76
25) 1,2-Dichloroethane	4.85	62	36309	14.04	ug	99
27) 2-Butanone	3.81	43	8750	14.79	ug	98
28) 1,1,1-Trichloroethane	4.23	97	30684	15.38	ug	87
29) Carbon Tetrachloride	4.37	117	24727m	17.73	ug	
30) Benzene	4.69	78	95615	16.40	ug	100
32) Trichloroethene	5.47	130	21091	17.42	ug	97
33) Methylcyclohexane	5.55	83	38928	16.02	ug	# 80
34) 1,2-Dichloropropane	5.78	63	25887	15.63	ug	98
35) Bromodichloromethane	6.09	83	25751	15.07	ug	95
36) cis-1,3-Dichloropropene	6.57	75	25109	15.78	ug	97
38) trans-1,3-Dichloropropene	7.18	75	19930	16.58	ug	92
40) 1,1,2-Trichloroethane	7.35	83	18970	16.68	ug	89
41) Dibromochloromethane	7.69	129	15440	16.06	ug	85
42) 1,2-Dibromoethane	7.80	107	18049	19.64	ug	99
43) Bromoform	9.09	173	7898	16.53	ug	97
46) 4-Methyl-2-Pentanone	6.78	43	21728	13.48	ug	95
47) Toluene	6.83	92	61473	14.53	ug	89
48) Tetrachloroethene	7.33	164	15993	14.45	ug	99
49) 2-Hexanone	7.64	43	9976m	11.38	ug	
50) Chlorobenzene	8.25	112	65366	14.71	ug	90
51) Ethylbenzene	8.35	106	33247	13.93	ug	# 85
52) m,p-Xylene	8.47	91	174755	24.63	ug	92
53) o-Xylene	8.86	106	38487	13.41	ug	89

Data Path : C:\MSDCHEM\1\DATA\071130\

Data File : ES385.D

Acq On : 30 Nov 2007 11:22 am

Operator :

Sample : VSTD020

Misc :

ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 30 13:59:57 2007

Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M

Quant Title : VOA TCL list OLM4.1

QLast Update : Fri Nov 09 13:48:02 2007

Response via : Initial Calibration

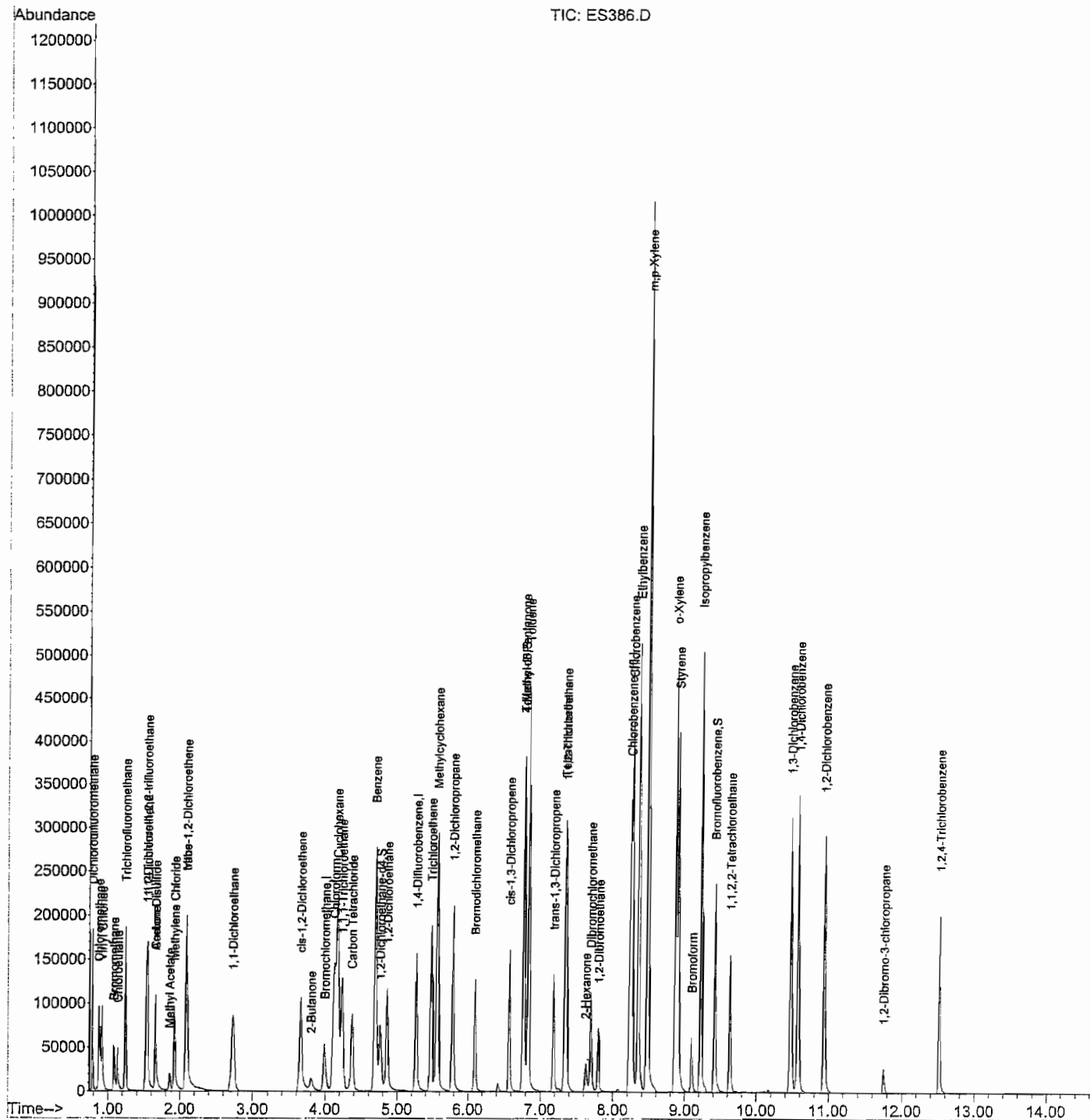
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Styrene	8.90	104	57548	13.26	ug	85
55) Isopropylbenzene	9.22	105	97224	13.10	ug	97
57) 1,1,2,2-Tetrachloroethane	9.62	83	26823	15.43	ug	99
58) 1,3-Dichlorobenzene	10.47	146	37082	13.12	ug	94
59) 1,4-Dichlorobenzene	10.57	146	40665	13.71	ug	97
60) 1,2-Dichlorobenzene	10.94	146	35078	13.48	ug	94
61) 1,2-Dibromo-3-chloropropan	11.76	157	1534	13.89	ug #	64
62) 1,2,4-Trichlorobenzene	12.53	180	14458	12.76	ug #	69

(#)=qualifier out of range (m)=manual integration (+)=signals summed

(QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\071130\  
Data File  : ES386.D  
Acq On     : 30 Nov 2007  11:43 am  
Operator   :  
Sample     : VSTD050  
Misc       :  
ALS Vial   : 6      Sample Multiplier: 1
```

Quant Time: Nov 30 14:05:11 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Nov 09 13:48:02 2007
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES386.D
 Acq On : 30 Nov 2007 11:43 am
 Operator :
 Sample : VSTD050
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 14:05:11 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	16914	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	129557	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	108340	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	57082m	43.34	ug	0.00
45) Toluene-d8	6.76	98	171673m	40.86	ug	0.00
56) Bromofluorobenzene	9.41	95	84269	43.33	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.78	85	86780	208.84	ug	99
3) Chloromethane	0.87	50	84688	75.26	ug	99
4) Vinyl Chloride	0.92	62	65255	67.85	ug	99
5) Bromomethane	1.08	96	20944m	50.81	ug	
6) Chloroethane	1.13	64	21251m	57.23	ug	
7) Trichlorofluoromethane	1.24	101	100982	56.58	ug	94
9) 1,1-Dichloroethene	1.54	96	34793	40.65	ug	# 87
10) 1,1,2-Trichloro-1,2,2-trif	1.53	101	41963	40.24	ug	96
11) Carbon Disulfide	1.65	76	108681	41.03	ug	100
12) Acetone	1.65	43	10388	43.39	ug	86
13) Methyl Acetate	1.85	43	23976	37.59	ug	100
14) Methylene Chloride	1.92	84	37160	41.40	ug	99
15) trans-1,2-Dichloroethene	2.09	96	52943	42.78	ug	# 88
16) Mtbe	2.09	73	73495	41.37	ug	91
18) 1,1-Dichloroethane	2.72	63	137512	45.34	ug	94
20) cis-1,2-Dichloroethene	3.66	61	95723	42.20	ug	# 80
22) Chloroform	4.12	83	128997	46.34	ug	98
23) Cyclohexane	4.17	84	103181	46.63	ug	# 74
25) 1,2-Dichloroethane	4.85	62	102715	40.21	ug	99
27) 2-Butanone	3.80	43	26614	47.78	ug	92
28) 1,1,1-Trichloroethane	4.23	97	94560	50.34	ug	87
29) Carbon Tetrachloride	4.37	117	64144	48.87	ug	# 65
30) Benzene	4.69	78	280787	51.15	ug	100
32) Trichloroethene	5.47	130	62772	55.07	ug	97
33) Methylcyclohexane	5.55	83	116510	50.94	ug	# 79
34) 1,2-Dichloropropane	5.78	63	76450	49.02	ug	98
35) Bromodichloromethane	6.09	83	79619	49.48	ug	93
36) cis-1,3-Dichloropropene	6.57	75	74495m	49.74	ug	
38) trans-1,3-Dichloropropene	7.18	75	60754	53.69	ug	95
40) 1,1,2-Trichloroethane	7.35	83	55820	52.14	ug	90
41) Dibromochloromethane	7.69	129	51512	56.90	ug	85
42) 1,2-Dibromoethane	7.80	107	46746	54.04	ug	100
43) Bromoform	9.09	173	22459m	49.93	ug	
46) 4-Methyl-2-Pentanone	6.77	43	58462	38.51	ug	96
47) Toluene	6.82	92	176896	44.38	ug	90
48) Tetrachloroethene	7.33	164	47277	45.34	ug	99
49) 2-Hexanone	7.62	43	33482	40.56	ug	69
50) Chlorobenzene	8.25	112	187098	44.69	ug	90
51) Ethylbenzene	8.35	106	100502	44.70	ug	# 84
52) m,p-Xylene	8.47	91	525294	78.61	ug	91
53) o-Xylene	8.86	106	118515	43.84	ug	# 88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES386.D
 Acq On : 30 Nov 2007 11:43 am
 Operator :
 Sample : VSTD050
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 30 14:05:11 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

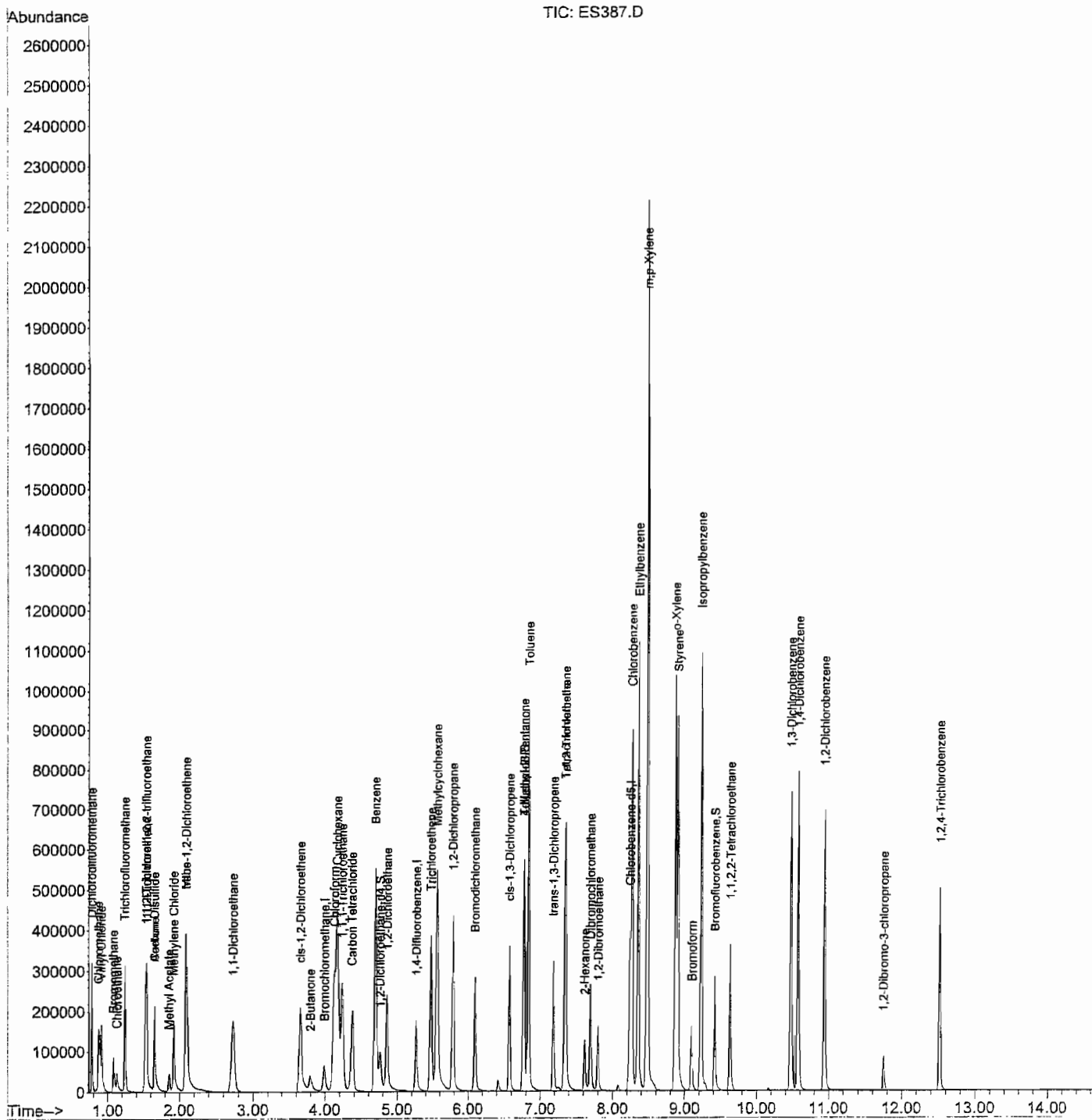
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Styrene	8.89	104	181867	44.50	ug	82
55) Isopropylbenzene	9.22	105	300877	43.05	ug	97
57) 1,1,2,2-Tetrachloroethane	9.62	83	75966	46.41	ug	99
58) 1,3-Dichlorobenzene	10.47	146	118893	44.64	ug	94
59) 1,4-Dichlorobenzene	10.57	146	125404	44.90	ug	95
60) 1,2-Dichlorobenzene	10.94	146	110933	45.26	ug	93
61) 1,2-Dibromo-3-chloropropan	11.75	157	5989	57.58	ug #	76
62) 1,2,4-Trichlorobenzene	12.52	180	49556	46.44	ug #	66

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\071130\  
Data File  : ES387.D  
Acq On     : 30 Nov 2007  12:05 pm  
Operator    :  
Sample     : VSTD100  
Misc       :  
ALS Vial   : 7      Sample Multiplier: 1
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Quant Time: Nov 30 14:00:35 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Nov 09 13:48:02 2007
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES387.D
 Acq On : 30 Nov 2007 12:05 pm
 Operator :
 Sample : VSTD100
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 14:00:35 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	19151	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	151687	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	125732	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	58434	39.19	ug	0.00
45) Toluene-d8	6.76	98	211248	43.33	ug	0.00
56) Bromofluorobenzene	9.41	95	97072	43.01	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.78	85	161166	342.55	ug	100
3) Chloromethane	0.87	50	161044	126.40	ug	98
4) Vinyl Chloride	0.92	62	124278	114.12	ug	99
5) Bromomethane	1.08	96	39462	84.55	ug	91
6) Chloroethane	1.12	64	32887m	78.22	ug	
7) Trichlorofluoromethane	1.24	101	182325	90.22	ug	94
9) 1,1-Dichloroethene	1.54	96	71310	73.59	ug	# 83
10) 1,1,2-Trichloro-1,2,2-trif	1.53	101	85446	72.37	ug	94
11) Carbon Disulfide	1.65	76	229052	76.38	ug	100
12) Acetone	1.65	43	22511	83.04	ug	85
13) Methyl Acetate	1.85	43	50712	70.22	ug	98
14) Methylene Chloride	1.92	84	75743	74.53	ug	95
15) trans-1,2-Dichloroethene	2.08	96	107979	77.06	ug	92
16) Mtbe	2.09	73	165442	82.25	ug	92
18) 1,1-Dichloroethane	2.72	63	287666	83.78	ug	95
20) cis-1,2-Dichloroethene	3.65	61	205142	79.88	ug	# 84
22) Chloroform	4.12	83	263576	83.62	ug	97
23) Cyclohexane	4.16	84	221457	88.40	ug	# 73
25) 1,2-Dichloroethane	4.85	62	215832	74.62	ug	99
27) 2-Butanone	3.80	43	67644	103.72	ug	94
28) 1,1,1-Trichloroethane	4.23	97	200009	90.94	ug	88
29) Carbon Tetrachloride	4.37	117	150049	97.64	ug	# 67
30) Benzene	4.69	78	578342	89.98	ug	100
32) Trichloroethene	5.47	130	127832	95.78	ug	96
33) Methylcyclohexane	5.55	83	244564	91.33	ug	# 78
34) 1,2-Dichloropropane	5.78	63	158895	87.02	ug	100
35) Bromodichloromethane	6.09	83	177799	94.38	ug	94
36) cis-1,3-Dichloropropene	6.57	75	174512	99.52	ug	97
38) trans-1,3-Dichloropropene	7.18	75	135325m	102.15	ug	
40) 1,1,2-Trichloroethane	7.35	83	116951	93.30	ug	93
41) Dibromochloromethane	7.69	129	112520m	106.15	ug	
42) 1,2-Dibromoethane	7.80	107	99400	98.15	ug	96
43) Bromoform	9.09	173	55819m	105.99	ug	
46) 4-Methyl-2-Pentanone	6.76	43	145658	82.67	ug	93
47) Toluene	6.83	92	369415	79.85	ug	90
48) Tetrachloroethene	7.34	164	105428	87.12	ug	98
49) 2-Hexanone	7.62	43	91350m	95.37	ug	
50) Chlorobenzene	8.25	112	396056	81.52	ug	92
51) Ethylbenzene	8.35	106	213968	82.00	ug	# 84
52) m,p-Xylene	8.47	91	1136461	146.55	ug	93
53) o-Xylene	8.86	106	257890	82.20	ug	# 86

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES387.D
 Acq On : 30 Nov 2007 12:05 pm
 Operator :
 Sample : VSTD100
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 30 14:00:35 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

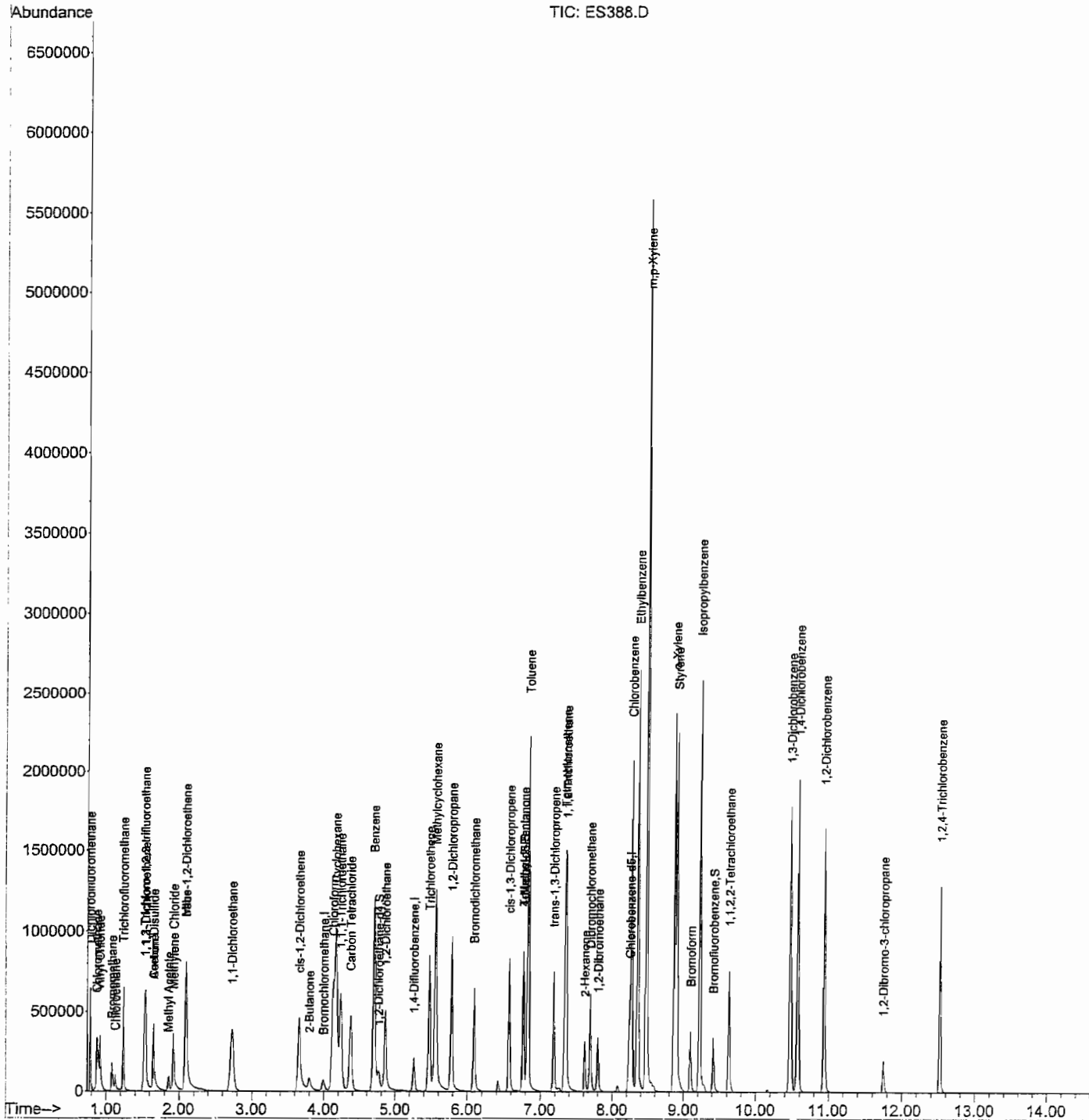
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Styrene	8.89	104	392166	82.67	ug	84
55) Isopropylbenzene	9.22	105	650948	80.26	ug	97
57) 1,1,2,2-Tetrachloroethane	9.62	83	173517	91.34	ug	99
58) 1,3-Dichlorobenzene	10.46	146	268720	86.95	ug	93
59) 1,4-Dichlorobenzene	10.57	146	281523	86.86	ug	99
60) 1,2-Dichlorobenzene	10.93	146	249287	87.64	ug	95
61) 1,2-Dibromo-3-chloropropan	11.75	157	17254	142.94	ug	81
62) 1,2,4-Trichlorobenzene	12.52	180	129316	104.42	ug #	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

(QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071130\
Data File : ES388.D
Acq On : 30 Nov 2007 12:26 pm
Operator :
Sample : VSTD200
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 14:00:59 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Nov 09 13:48:02 2007
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ES388.D
 Acq On : 30 Nov 2007 12:26 pm
 Operator :
 Sample : VSTD200
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 14:00:59 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Nov 09 13:48:02 2007
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	23856	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	174707	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	145939	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	63082	33.96	ug	0.00
45) Toluene-d8	6.76	98	243634	43.05	ug	0.00
56) Bromofluorobenzene	9.41	95	112196	42.83	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.78	85	341197	582.17	ug	100
3) Chloromethane	0.87	50	339054	213.63	ug	98
4) Vinyl Chloride	0.91	62	264068	194.67	ug	99
5) Bromomethane	1.08	96	97099m	167.01	ug	
6) Chloroethane	1.12	64	54588m	104.23	ug	
7) Trichlorofluoromethane	1.23	101	356837	141.75	ug	94
9) 1,1-Dichloroethene	1.54	96	144732	119.90	ug	# 83
10) 1,1,2-Trichloro-1,2,2-trif	1.52	101	177314	120.56	ug	98
11) Carbon Disulfide	1.65	76	491106	131.47	ug	100
12) Acetone	1.66	43	43365	128.42	ug	87
13) Methyl Acetate	1.85	43	100086	111.25	ug	99
14) Methylene Chloride	1.92	84	153332	121.13	ug	94
15) trans-1,2-Dichloroethene	2.09	96	230678	132.15	ug	# 88
16) Mtbe	2.09	73	384268	153.36	ug	91
18) 1,1-Dichloroethane	2.72	63	628321	146.90	ug	95
20) cis-1,2-Dichloroethene	3.66	61	480019	150.05	ug	# 85
22) Chloroform	4.12	83	586528	149.38	ug	97
23) Cyclohexane	4.16	84	505216	161.90	ug	# 73
25) 1,2-Dichloroethane	4.85	62	468857	130.13	ug	100
27) 2-Butanone	3.80	43	139821	186.14	ug	91
28) 1,1,1-Trichloroethane	4.23	97	454892	179.57	ug	87
29) Carbon Tetrachloride	4.37	117	346861m	195.96	ug	
30) Benzene	4.69	78	1267944	171.27	ug	100
32) Trichloroethene	5.47	130	291769	189.82	ug	98
33) Methylcyclohexane	5.56	83	551044	178.66	ug	# 79
34) 1,2-Dichloropropane	5.78	63	349531	166.20	ug	100
35) Bromodichloromethane	6.09	83	399818	184.27	ug	93
36) cis-1,3-Dichloropropene	6.57	75	402069m	199.07	ug	
38) trans-1,3-Dichloropropene	7.18	75	306959m	201.18	ug	
40) 1,1,2-Trichloroethane	7.35	83	252095	174.61	ug	93
41) Dibromochloromethane	7.69	129	267281m	218.94	ug	
42) 1,2-Dibromoethane	7.80	107	215149	184.46	ug	97
43) Bromoform	9.09	173	134618m	221.94	ug	
46) 4-Methyl-2-Pentanone	6.76	43	311399	152.27	ug	91
47) Toluene	6.83	92	837046	155.88	ug	89
48) Tetrachloroethene	7.34	164	241821	172.15	ug	99
49) 2-Hexanone	7.61	43	208908m	187.89	ug	
50) Chlorobenzene	8.25	112	909057	161.21	ug	91
51) Ethylbenzene	8.35	106	494633	163.32	ug	# 85
52) m,p-Xylene	8.47	91	2808737	312.05	ug	92
53) o-Xylene	8.86	106	605440	166.26	ug	# 86

Data Path : C:\MSDCHEM\1\DATA\071130\
Data File : ES388.D
Acq On : 30 Nov 2007 12:26 pm
Operator :
Sample : VSTD200
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 30 14:00:59 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Nov 09 13:48:02 2007
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
54) Styrene	8.89	104	917017	166.55	ug	84
55) Isopropylbenzene	9.22	105	1536661	163.23	ug	97
57) 1,1,2,2-Tetrachloroethane	9.62	83	357343	162.07	ug	99
58) 1,3-Dichlorobenzene	10.47	146	647441	180.48	ug	94
59) 1,4-Dichlorobenzene	10.57	146	674415	179.27	ug	99
60) 1,2-Dichlorobenzene	10.93	146	582598	176.46	ug	96
61) 1,2-Dibromo-3-chloropropan	11.75	157	40691	290.42	ug	86
62) 1,2,4-Trichlorobenzene	12.52	180	313463	218.07	ug #	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Instrument ID: MSVOAE Calibration Date/Time: 12/7/2007 10:38

Lab File ID: ES393.D Init. Calib. Date(s): 11/30/2007 11/30/2007

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 12:26

GC Column: DB624 ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	4.194	3.075	0.010	-26.68	
Chloromethane	4.199	3.578	0.010	-14.79	
Vinyl Chloride	3.179	2.882	0.100	-9.34	25.0
Bromomethane	1.152	1.085	0.100	-5.82	25.0
Chloroethane	1.020	1.299	0.010	27.35	
Trichlorofluoromethane	4.803	4.656	0.010	-3.06	
1,1-Dichloroethene	1.772	1.730	0.100	-2.37	25.0
1,1,2-Trichloro-1,2,2-tri	2.148	2.181	0.010	1.54	
Acetone	0.609	0.492	0.010	-19.21	
Carbon Disulfide	5.454	5.048	0.010	-7.44	
Methyl Acetate	1.234	1.134	0.010	-8.10	
Methylene Chloride	1.937	1.917	0.010	-1.03	
trans-1,2-Dichloroethene	2.644	2.506	0.010	-5.22	
Mtbe	3.966	3.395	0.010	-14.40	
1,1-Dichloroethane	7.039	6.741	0.200	-4.23	25.0
cis-1,2-Dichloroethene	4.882	4.701	0.010	-3.71	
2-Butanone	1.466	1.180	0.010	-19.51	
Chloroform	6.562	6.473	0.200	-1.36	25.0
1,1,1-Trichloroethane	0.618	0.580	0.100	-6.15	25.0
Cyclohexane	5.174	5.276	0.010	1.97	
Carbon Tetrachloride	0.458	0.410	0.100	-10.48	25.0
Benzene	1.826	1.782	0.500	-2.41	25.0
1,2-Dichloroethane	5.255	4.935	0.100	-6.09	25.0
Trichloroethene	0.409	0.435	0.300	6.36	25.0
Methylcyclohexane	0.768	0.767	0.010	-0.13	
1,2-Dichloropropane	0.499	0.470	0.010	-5.81	
Bromodichloromethane	0.523	0.478	0.200	-8.60	25.0
cis-1,3-Dichloropropene	0.507	0.473	0.200	-6.71	25.0
4-Methyl-2-Pentanone	0.508	0.366	0.010	-27.95	
Toluene	1.417	1.387	0.400	-2.12	25.0
trans-1,3-Dichloropropene	0.399	0.384	0.100	-3.76	25.0
1,1,2-Trichloroethane	0.366	0.335	0.100	-8.47	25.0
Tetrachloroethene	0.390	0.397	0.200	1.79	25.0
2-Hexanone	0.276	0.205	0.010	-25.72	
Dibromochloromethane	0.330	0.322	0.100	-2.42	25.0
1,2-Dibromoethane	0.324	0.296	0.010	-8.64	
Chlorobenzene	1.529	1.533	0.500	0.26	25.0
Ethylbenzene	0.802	0.806	0.100	0.50	25.0
m,p-Xylene	2.156	2.060	0.010	-4.45	
o-Xylene	0.941	0.953	0.300	1.28	25.0
Styrene	1.422	1.427	0.300	0.35	25.0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Instrument ID: MSVOAE Calibration Date/Time: 12/7/2007 10:38

Lab File ID: ES393.D Init. Calib. Date(s): 11/30/2007 11/30/2007

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 12:26

GC Column: DB624 ID: 0.18 (mm)

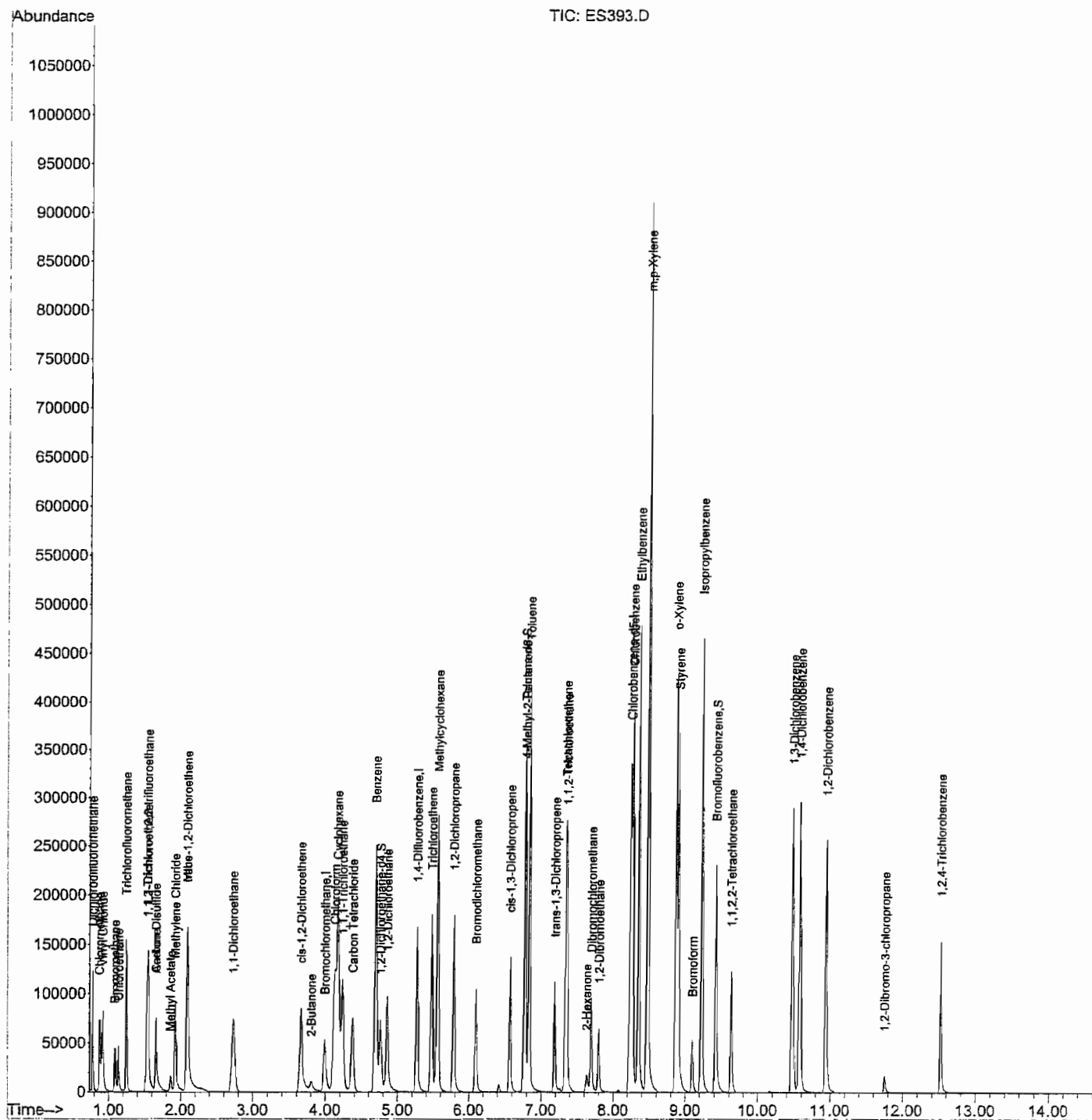
COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Bromoform	0.162	0.165	0.100	1.85	25.0
Isopropylbenzene	2.381	2.354	0.010	-1.13	
1,1,2,2-Tetrachloroethane	0.618	0.521	0.300	-15.70	25.0
1,3-Dichlorobenzene	0.962	0.968	0.600	0.62	25.0
1,4-Dichlorobenzene	1.024	1.055	0.500	3.03	25.0
1,2-Dichlorobenzene	0.891	0.889	0.400	-0.22	25.0
1,2-Dibromo-3-chloropropa	0.050	0.037		-26.00	
1,2,4-Trichlorobenzene	0.420	0.361	0.200	-14.05	25.0
1,2-Dichloroethane-d4	3.058	2.770	0.010	-9.42	
Toluene-d8	1.645	1.607	0.010	-2.31	
Bromofluorobenzene	0.761	0.704	0.200	-7.49	25.0

All other compounds must meet a minimum RRF of 0.010.

(QT Reviewed)

```
Data Path   : C:\MSDCHEM\1\DATA\071207\  
Data File  : ES393.D  
Acq On     : 7 Dec 2007 10:38 am  
Operator   :  
Sample     : VSTD050  
Misc       :  
ALS Vial   : 2      Sample Multiplier: 1
```

Quant Time: Dec 07 13:34:22 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Wed Dec 05 11:47:42 2007
Response via : Initial Calibration



Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : ES393.D
 Acq On : 7 Dec 2007 10:38 am
 Operator :
 Sample : VSTD050
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 07 13:34:22 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Wed Dec 05 11:47:42 2007
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	17916	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	139603	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	117534	50.00	ug	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,2-Dichloroethane-d4	4.76	65	55229m	51.34	ug	0.00
45) Toluene-d8	6.76	98	168888m	43.14	ug	0.00
56) Bromofluorobenzene	9.41	95	82709	46.26	ug	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	0.78	85	55089	36.66	ug	99
3) Chloromethane	0.87	50	64097	42.60	ug	97
4) Vinyl Chloride	0.92	62	51642	45.33	ug	99
5) Bromomethane	1.08	96	19442	47.09	ug	99
6) Chloroethane	1.13	64	23280	63.68	ug	100
7) Trichlorofluoromethane	1.24	101	83408	48.47	ug	95
9) 1,1-Dichloroethene	1.54	96	33141m	52.19	ug	
10) 1,1,2-Trichloro-1,2,2-trif	1.53	101	39081	50.77	ug	96
11) Carbon Disulfide	1.65	76	90447	46.28	ug	100
12) Acetone	1.66	43	8807	40.37	ug	83
13) Methyl Acetate	1.85	43	20309	45.94	ug	93
14) Methylene Chloride	1.92	84	34348	49.50	ug	95
15) trans-1,2-Dichloroethene	2.09	96	44892	47.38	ug	94
16) Mtbe	2.09	73	60816	42.80	ug	90
18) 1,1-Dichloroethane	2.73	63	120763	47.88	ug	94
20) cis-1,2-Dichloroethene	3.66	61	84220	48.15	ug	# 84
22) Chloroform	4.12	83	115962	49.32	ug	98
23) Cyclohexane	4.16	84	94523	50.98	ug	# 72
25) 1,2-Dichloroethane	4.85	62	88407	46.95	ug	99
27) 2-Butanone	3.81	43	21137m	39.66	ug	
28) 1,1,1-Trichloroethane	4.23	97	81037	46.94	ug	87
29) Carbon Tetrachloride	4.37	117	57186	44.72	ug	# 63
30) Benzene	4.69	78	248779	48.80	ug	100
32) Trichloroethene	5.47	130	60744	53.25	ug	100
33) Methylcyclohexane	5.55	83	107103	49.95	ug	# 79
34) 1,2-Dichloropropane	5.78	63	65544	47.03	ug	98
35) Bromodichloromethane	6.09	83	66770	45.76	ug	94
36) cis-1,3-Dichloropropene	6.57	75	66052	46.65	ug	97
38) trans-1,3-Dichloropropene	7.18	75	53592	48.07	ug	90
40) 1,1,2-Trichloroethane	7.35	83	46714	45.69	ug	96
41) Dibromochloromethane	7.69	129	44931	48.83	ug	85
42) 1,2-Dibromoethane	7.80	107	41362	45.77	ug	99
43) Bromoform	9.09	173	22983	50.89	ug	98
46) 4-Methyl-2-Pentanone	6.78	43	43050	36.06	ug	95
47) Toluene	6.82	92	163063	48.96	ug	91
48) Tetrachloroethene	7.34	164	46678	50.86	ug	98
49) 2-Hexanone	7.63	43	24125m	37.13	ug	
50) Chlorobenzene	8.25	112	180220	50.15	ug	91
51) Ethylbenzene	8.35	106	94712	50.26	ug	# 78
52) m,p-Xylene	8.47	91	484313	95.58	ug	90
53) o-Xylene	8.86	106	112064	50.66	ug	# 82

Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : ES393.D
Acq On : 7 Dec 2007 10:38 am
Operator :
Sample : VSTD050
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 07 13:34:22 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Wed Dec 05 11:47:42 2007
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) Styrene	8.89	104	167688	50.17	ug	80
55) Isopropylbenzene	9.22	105	276686	49.43	ug	96
57) 1,1,2,2-Tetrachloroethane	9.62	83	61224	42.13	ug	98
58) 1,3-Dichlorobenzene	10.47	146	113790	50.33	ug	93
59) 1,4-Dichlorobenzene	10.57	146	123997	51.49	ug	97
60) 1,2-Dichlorobenzene	10.94	146	104474	49.86	ug	96
61) 1,2-Dibromo-3-chloropropan	11.75	157	4359	36.82	ug	87
62) 1,2,4-Trichlorobenzene	12.52	180	42426	42.99	ug #	69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: AES, Inc. Contract _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S

Lab File ID: ES393.D Date Analyzed: 12/7/2007

Instrument ID: MSVOAE Time Analyzed: 10:38

GC Column: DB624 ID: 0.1 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT#	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	17916	3.99	139603	5.26	117534	8.23
UPPER LIMIT	35832	4.49	279206	5.76	235068	8.73
LOWER LIMIT	8958	3.49	69802	4.76	58767	7.73
SAMPLE NO.						
VBLK01	12138	3.99	109832	5.26	115438	8.23
AX-MW-11S (120407)	10911	4.00	100374	5.26	107076	8.23
AX-MW-8S (120407)	10508	4.00	98124	5.26	108262	8.23
AX-MW-9S (120407)	10078	4.00	89526	5.26	100079	8.23
AX-DUPE (120407)	10057	4.00	89115	5.26	98287	8.23
AX-TB (120407)	10170	4.00	90905	5.26	98679	8.23
AX-MW-11S (120407)	9853	4.00	140354	5.26	98789	8.23
AX-MW-11S (120407)	10156	3.99	147759	5.26	102228	8.23
VMSB	9749	4.00	119094	5.26	96344	8.23

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

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

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

* Values outside of QC limits.

Form VIII VOA-1

: 00083

RAW QC

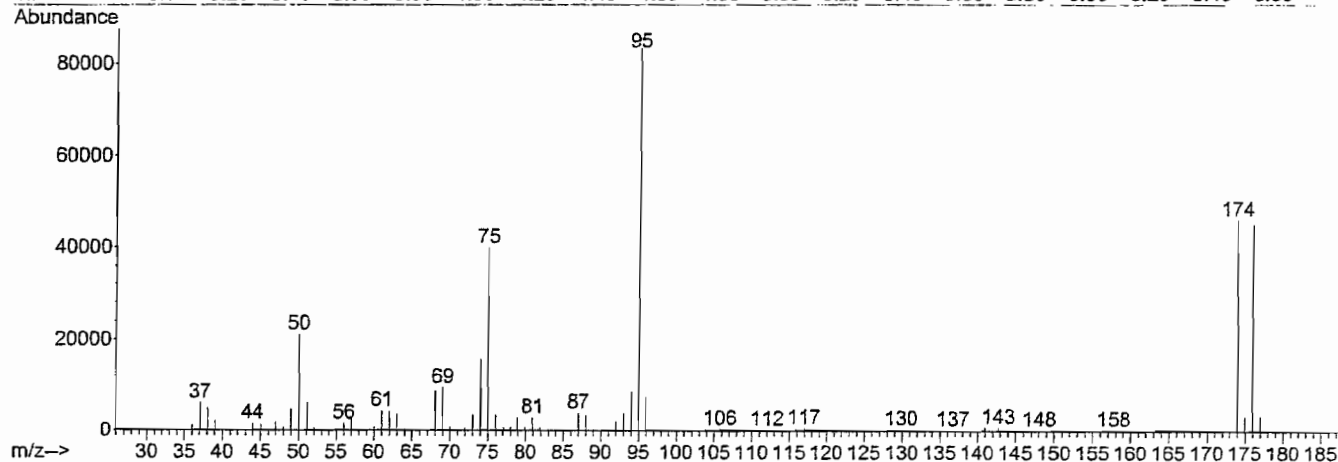
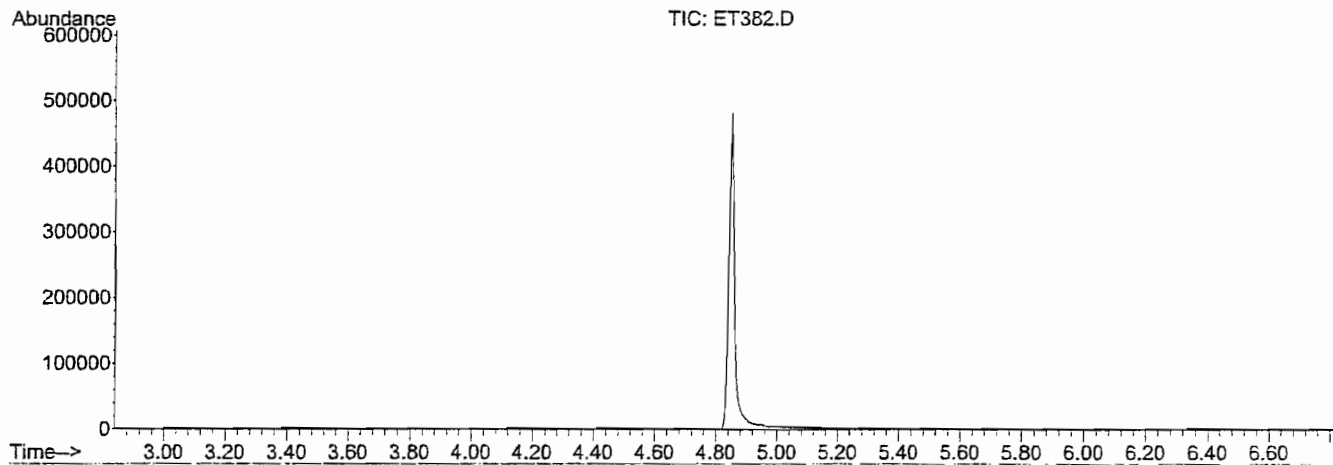
DATA

BFB

Data Path : C:\MSDCHEM\1\DATA\071130\
 Data File : ET382.D
 Acq On : 30 Nov 2007 9:18 am
 Operator :
 Sample : BFB-INJ
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Title : VOA TCL list OLM4.1
 Last Update : Fri Nov 09 13:48:02 2007



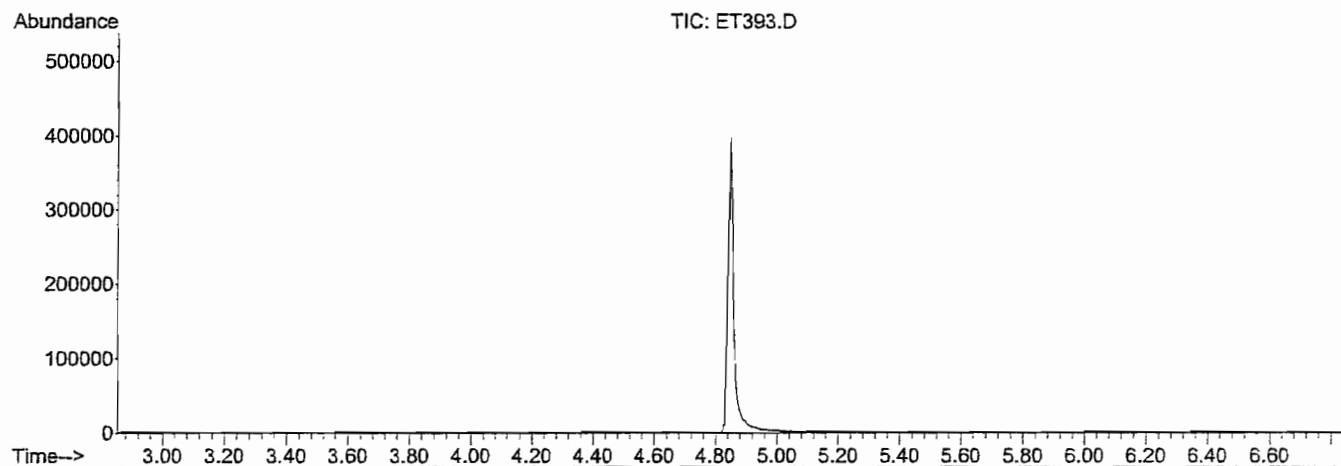
Spectrum Information: Scan 676

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	21008	PASS
75	95	30	60	47.8	39840	PASS
95	95	100	100	100.0	83344	PASS
96	95	5	9	8.7	7215	PASS
173	174	0.00	2	0.8	346	PASS
174	95	50	100	55.1	45952	PASS
175	174	5	9	6.8	3124	PASS
176	174	95	101	97.7	44880	PASS
177	176	5	9	7.3	3291	PASS

Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : ET393.D
Acq On : 7 Dec 2007 10:14 am
Operator :
Sample : BFB-INJ
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: LSCINT.P

Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Title : VOA TCL list OLM4.1
Last Update : Thu Dec 20 10:16:19 2007



Spectrum Information: Scan 678

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.5	12238	PASS
75	95	30	60	48.8	26586	PASS
95	95	100	100	100.0	54504	PASS
96	95	5	9	6.6	3573	PASS
173	174	0.00	2	0.5	234	PASS
174	95	50	100	86.6	47202	PASS
175	174	5	9	7.2	3394	PASS
176	174	95	101	95.1	44881	PASS
177	176	5	9	6.1	2757	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VELK01

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER Lab Sample ID: VELK

Sample-wt/vol: 5.0 (g/mL) ml Lab File ID: EB393.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		10	U
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		10	U
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		10	U
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK01

Lab Name: AES, Inc.

Contract:

Lab Code: AES

Case No.: ERM0701

SAS No.:

SDG No.:

AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: VBLK

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: EB393.D

Level (low/med):

Date Received:

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

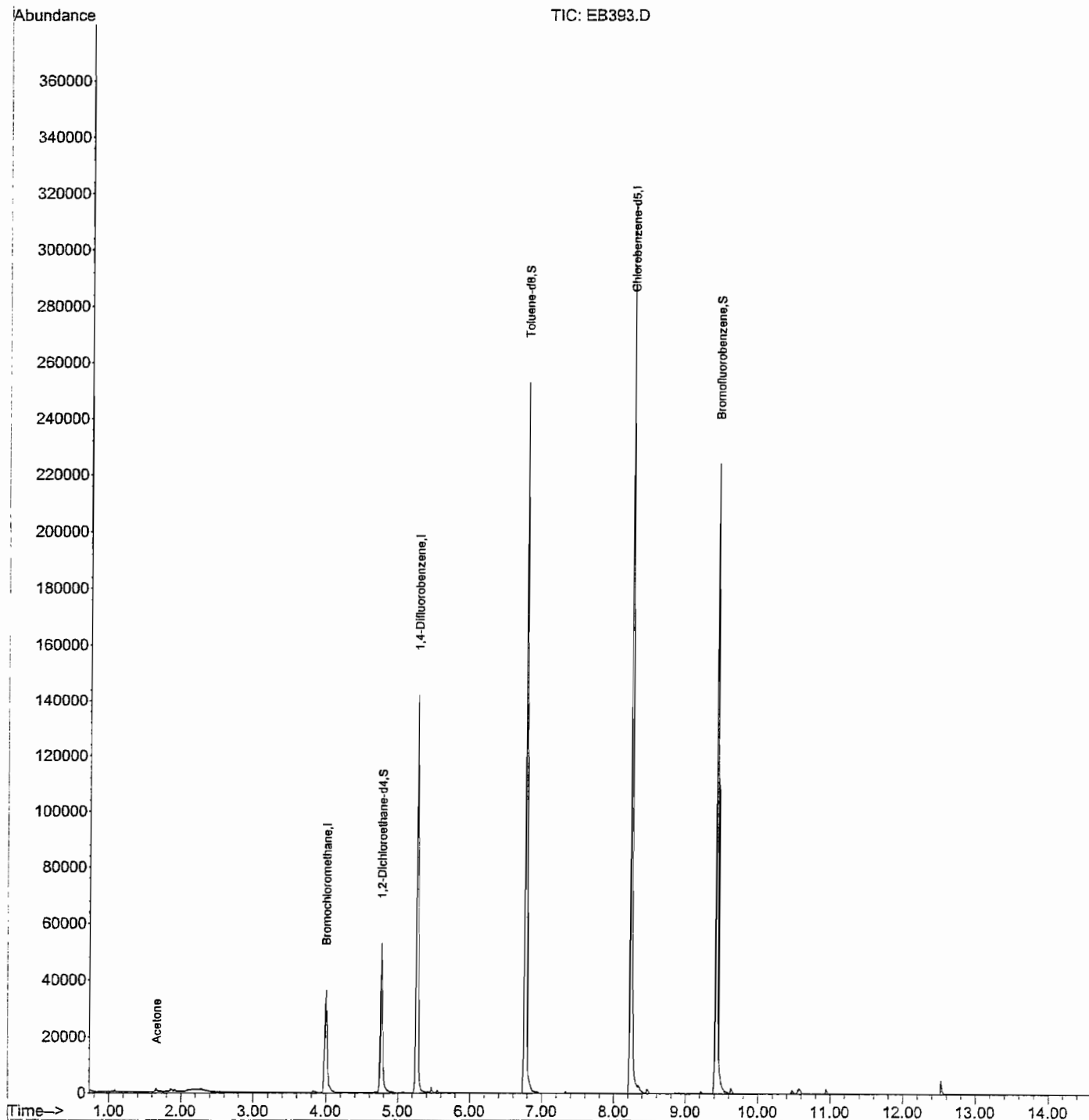
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		10	U
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : EB393.D
 Acq On : 7 Dec 2007 11:00 am
 Operator :
 Sample : VBLK
 Misc : MBLK EPA_8260_WATER
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 11 11:10:14 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 11:20:56 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

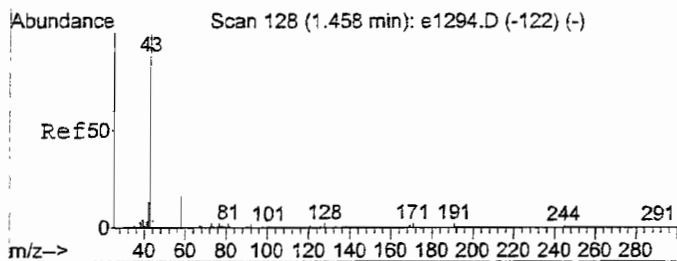


Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : EB393.D
Acq On : 7 Dec 2007 11:00 am
Operator :
Sample : VBLK
Misc : MBLK EPA 8260 WATER
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 11 11:10:14 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Dec 07 11:20:56 2007
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

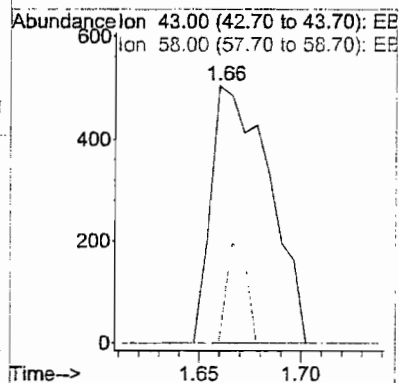
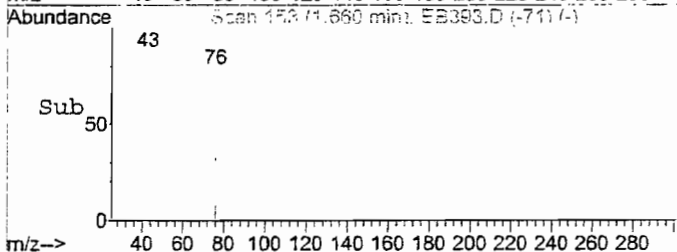
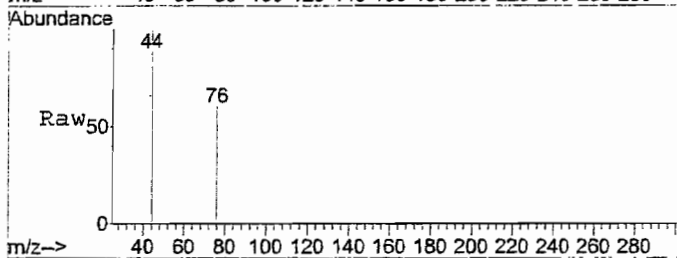
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	12138	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	109832	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	115438	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	40702	54.39	ug	0.00
45) Toluene-d8	6.76	98	147256	44.39	ug	0.00
56) Bromofluorobenzene	9.42	95	78433	48.28	ug	0.00
Target Compounds						
12) Acetone	1.66	43	994	8.33	ug	Qvalue # 61

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#12
 Acetone
 Concen: 8.33 ug
 RT: 1.66 min Scan# 153
 Delta R.T. -0.00 min
 Lab File: EB393.D
 Acq: 7 Dec 2007 11:00 am

Tgt Ion: 43 Resp: 994
 Ion Ratio Lower Upper
 43 100
 58 13.4 16.4 56.4#



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VMSB

Lab Name: AES, Inc. Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER Lab Sample ID: VMSB

Sample wt/vol: 5.0 (g/mL) ml Lab File ID: E3528.D

Level (low/med): _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane		10	U
74-87-3	Chloromethane		10	U
75-01-4	Vinyl chloride		10	U
74-83-9	Bromomethane		10	U
75-00-3	Chloroethane		10	U
75-69-4	Trichlorofluoromethane		10	U
75-35-4	1,1-Dichloroethene		67	
76-13-1	1,1,2-Trichloro-1,2,2-tri		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon disulfide		10	U
79-20-9	Methyl Acetate		10	U
75-09-2	Methylene Chloride		10	U
156-60-5	trans-1,2-Dichloroethene		10	U
1634-04-4	Methyl tert-butyl Ether		10	U
75-34-3	1,1-Dichloroethane		10	U
156-59-2	cis-1,2-Dichloroethene		10	U
78-93-3	2-Butanone		10	U
67-66-3	Chloroform		10	U
71-55-6	1,1,1-Trichloroethane		10	U
110-82-7	Cyclohexane		10	U
56-23-5	Carbon Tetrachloride		10	U
71-43-2	Benzene		59	
107-06-2	1,2-Dichloroethane		10	U
79-01-6	Trichloroethene		57	
108-87-2	Methylcyclohexane		10	U
78-87-5	1,2-Dichloropropane		10	U
75-27-4	Bromodichloromethane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
108-88-3	Toluene		60	
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
127-18-4	Tetrachloroethene		10	U
591-78-6	2-Hexanone		10	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VMSE

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: VMSE

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3528.D

Level (low/med):

Date Received:

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

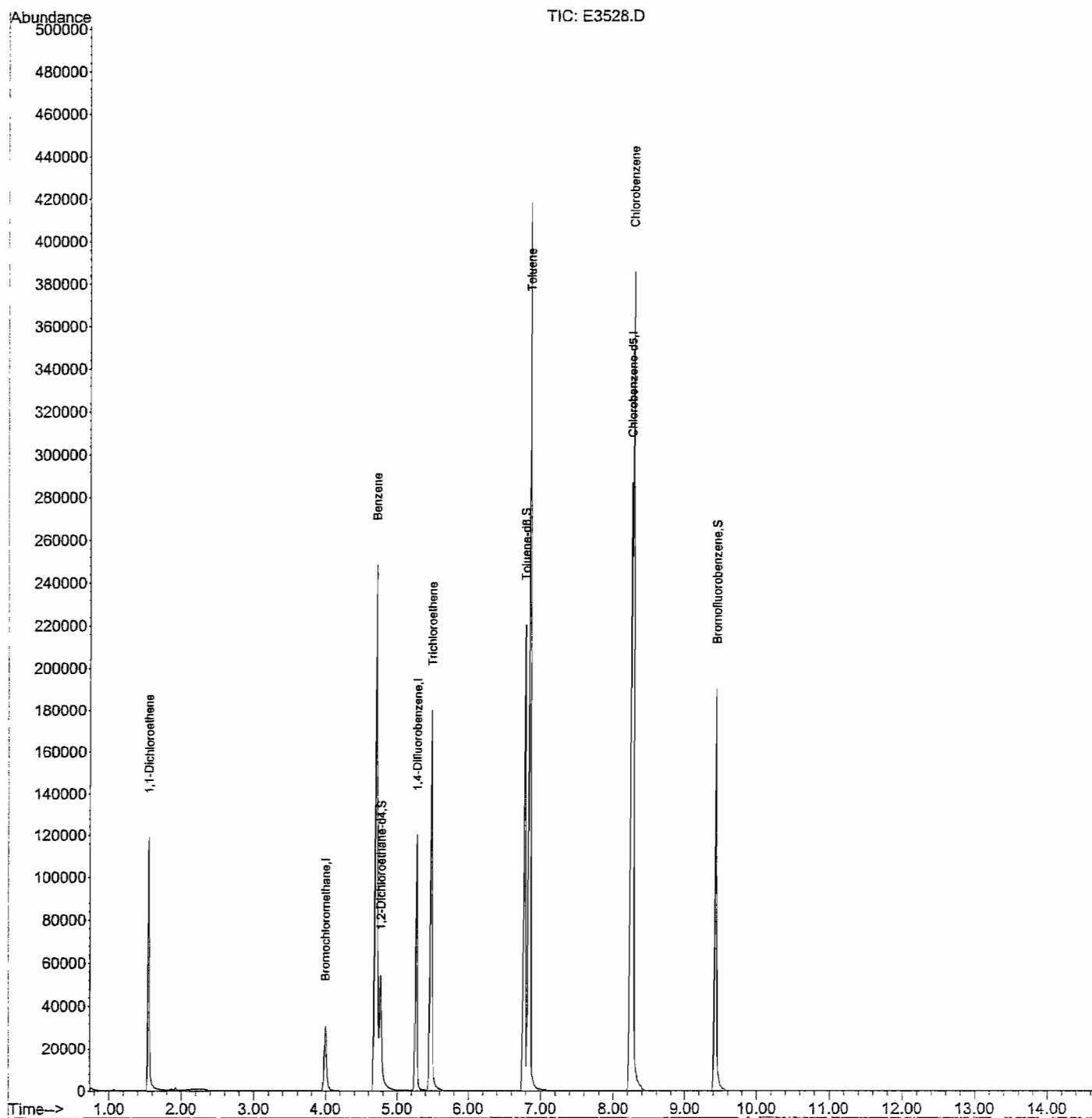
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane	10	U	
106-93-4	1,2-Dibromoethane	10	U	
108-90-7	Chlorobenzene	60		
100-41-4	Ethyl Benzene	10	U	
126777-61-2	m,p-Xylenes	10	U	
95-47-6	o-Xylene	10	U	
100-42-5	Styrene	10	U	
75-25-2	Bromoform	10	U	
98-82-8	Isopropylbenzene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
541-73-1	1,3-Dichlorobenzene	10	U	
106-46-7	1,4-Dichlorobenzene	10	U	
95-50-1	1,2-Dichlorobenzene	10	U	
96-12-8	1,2-Dibromo-3-Chloropropane	10	U	
120-82-1	1,2,4-Trichlorobenzene	10	U	

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3528.D
 Acq On : 7 Dec 2007 2:09 pm
 Operator :
 Sample : VMSB
 Misc : LCS EPA_8260_WATER
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 11 11:13:30 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 13:34:26 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : E3528.D
Acq On : 7 Dec 2007 2:09 pm
Operator :
Sample : VMSB
Misc : LCS EPA_8260_WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 11 11:13:30 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Dec 07 13:34:26 2007
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	9749	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	119094m	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	96344	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	34970	58.18	ug	0.00
45) Toluene-d8	6.76	98	126206	45.58	ug	0.00
56) Bromofluorobenzene	9.42	95	67359	49.68	ug	0.00
Target Compounds				Qvalue		
9) 1,1-Dichloroethene	1.54	96	24288m	67.34	ug	
30) Benzene	4.69	78	248980	58.66	ug	100
32) Trichloroethene	5.47	130	58978	56.91	ug	100
47) Toluene	6.83	92	160458	60.02	ug	91
50) Chlorobenzene	8.25	112	178114	60.28	ug	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)MS

Lab Name: AES, Inc.

Contract: _____

Lab Code: AES Case No.: ERM0701 SAS No.: _____ SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001AMS

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3526.D

Level (low/med): _____

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	70		
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	50		
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	48		
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	57		
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)MS

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-BS (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001AMS

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: E3526.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

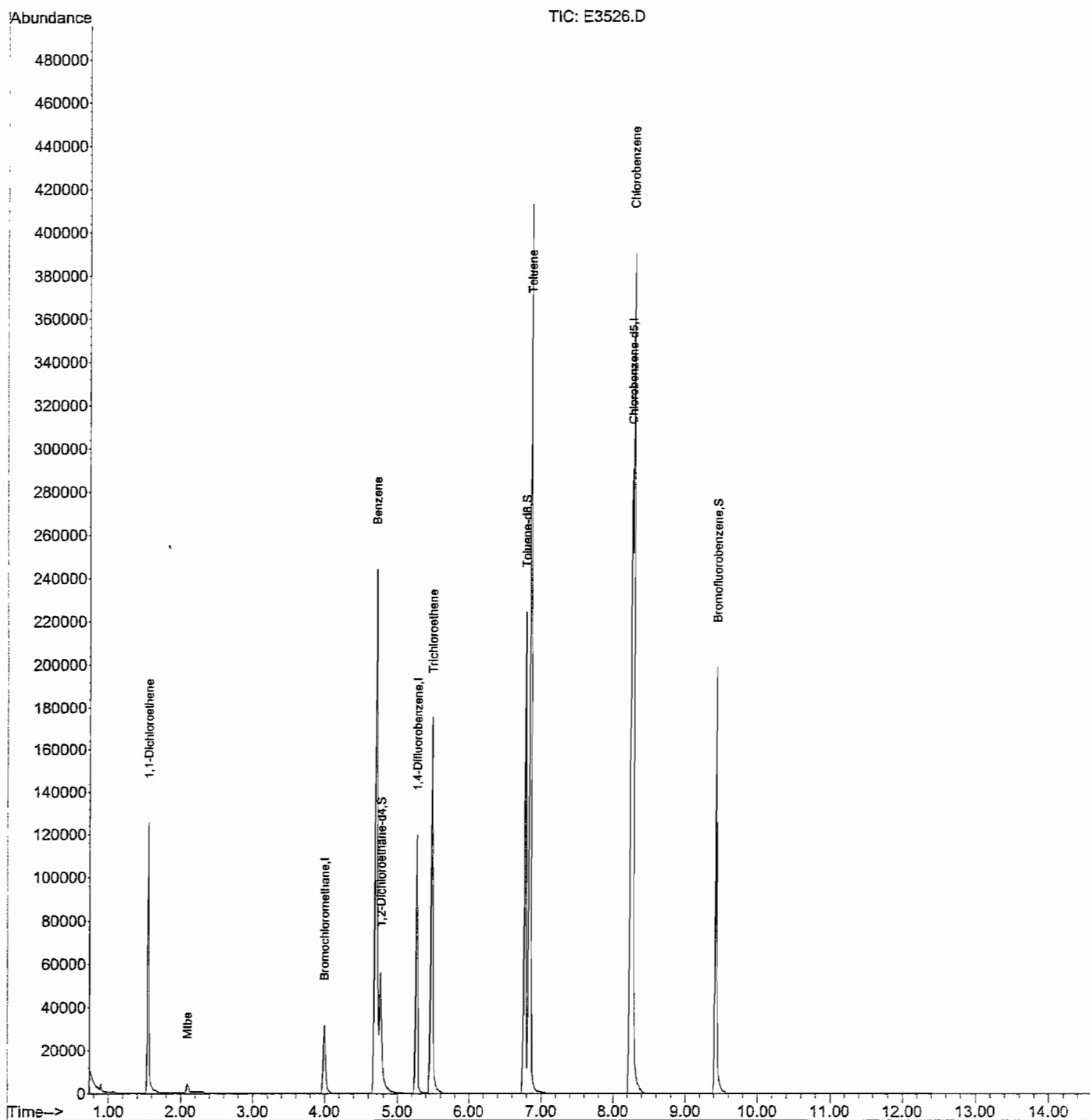
CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		58	
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
 Data File : E3526.D
 Acq On : 7 Dec 2007 1:22 pm
 Operator :
 Sample : 071204030-001A MS
 Misc : MS EPA_8260_WATER
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 11 11:12:44 2007
 Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
 Quant Title : VOA TCL list OLM4.1
 QLast Update : Fri Dec 07 13:34:26 2007
 Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : E3526.D
Acq On : 7 Dec 2007 1:22 pm
Operator :
Sample : 071204030-001A MS
Misc : MS EPA 8260 WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 11 11:12:44 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Dec 07 13:34:26 2007
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.00	128	9853	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	140354m	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	98789	50.00	ug	0.00

System Monitoring Compounds

24) 1,2-Dichloroethane-d4	4.76	65	35882	59.07	ug	0.00
45) Toluene-d8	6.76	98	126976	44.72	ug	0.00
56) Bromofluorobenzene	9.42	95	68588	49.33	ug	0.00

Target Compounds

						Qvalue
9) 1,1-Dichloroethene	1.54	96	25454m	69.83	ug	
16) Mtbe	2.10	73	3974	5.94	ug	# 84
30) Benzene	4.70	78	247711	49.52	ug	100
32) Trichloroethene	5.47	130	58032	47.51	ug	99
47) Toluene	6.83	92	157104	57.31	ug	89
50) Chlorobenzene	8.25	112	176149	58.14	ug	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)MSD

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001AMSD

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3527.D

Level (low/med):

Date Received: 12/4/07

Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	10	U	
74-87-3	Chloromethane	10	U	
75-01-4	Vinyl chloride	10	U	
74-83-9	Bromomethane	10	U	
75-00-3	Chloroethane	10	U	
75-69-4	Trichlorofluoromethane	10	U	
75-35-4	1,1-Dichloroethene	70		
76-13-1	1,1,2-Trichloro-1,2,2-tri	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon disulfide	10	U	
79-20-9	Methyl Acetate	10	U	
75-09-2	Methylene Chloride	10	U	
156-60-5	trans-1,2-Dichloroethene	10	U	
1634-04-4	Methyl tert-butyl Ether	10	U	
75-34-3	1,1-Dichloroethane	10	U	
156-59-2	cis-1,2-Dichloroethene	10	U	
78-93-3	2-Butanone	10	U	
67-66-3	Chloroform	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
110-82-7	Cyclohexane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
71-43-2	Benzene	47		
107-06-2	1,2-Dichloroethane	10	U	
79-01-6	Trichloroethene	45		
108-87-2	Methylcyclohexane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
75-27-4	Bromodichloromethane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
108-88-3	Toluene	56		
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
127-18-4	Tetrachloroethene	10	U	
591-78-6	2-Hexanone	10	U	

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

AX-MW-11S (120407)MSD

Lab Name: AES, Inc.

Contract:

Lab Code: AES Case No.: ERM0701 SAS No.: SDG No.: AX-MW-8S (

Matrix (soil/water): WATER

Lab Sample ID: 071204030-001AMSD

Sample wt/vol: 5.0 (g/mL) ml

Lab File ID: E3527.D

Level (low/med):

Date Received: 12/4/07

% Moisture: not dec. 100

Date Analyzed: 12/7/07

GC Column: DB624 ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

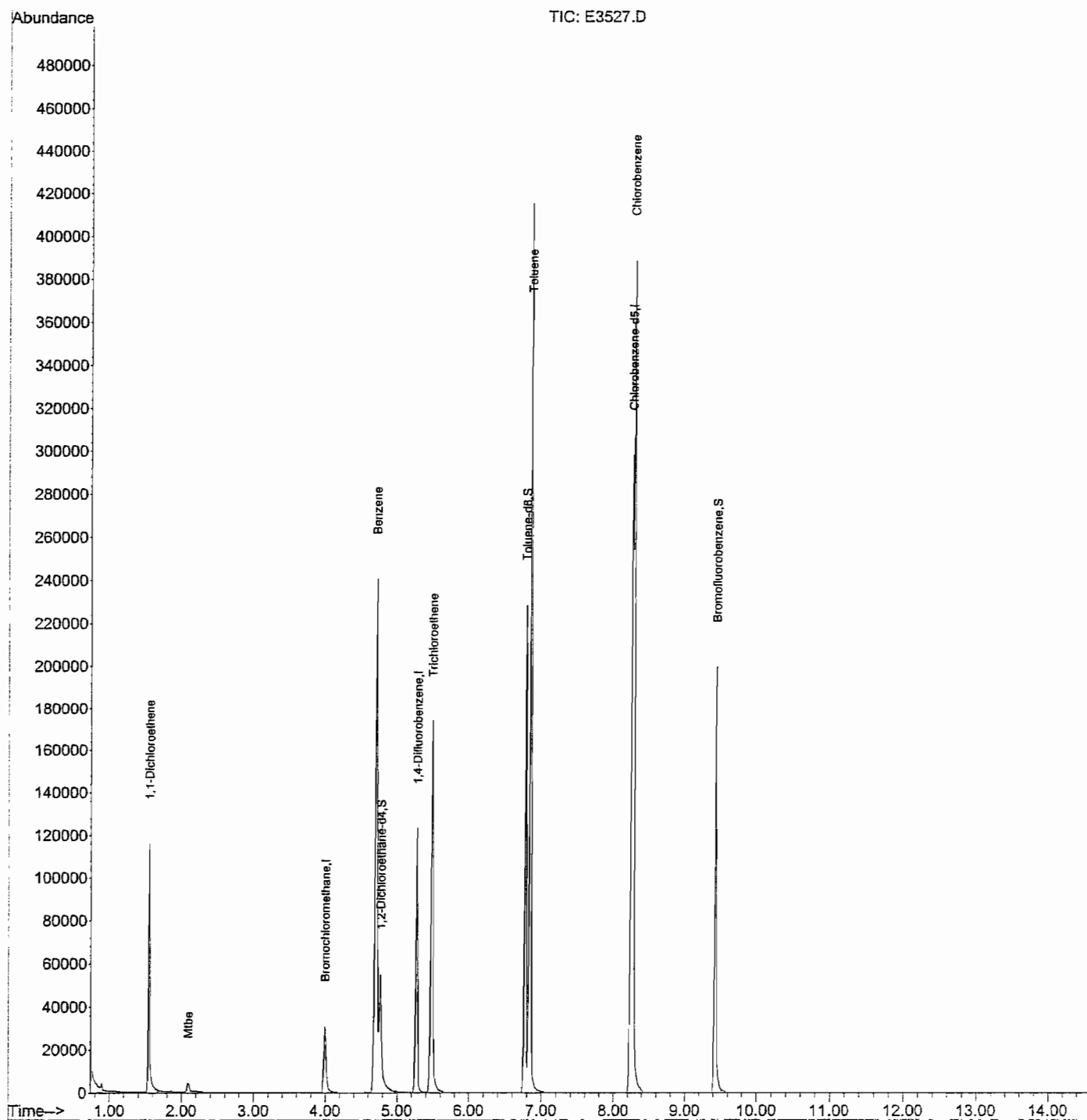
Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
124-48-1	Dibromochloromethane		10	U
106-93-4	1,2-Dibromoethane		10	U
108-90-7	Chlorobenzene		57	
100-41-4	Ethyl Benzene		10	U
126777-61-2	m,p-Xylenes		10	U
95-47-6	o-Xylene		10	U
100-42-5	Styrene		10	U
75-25-2	Bromoform		10	U
98-82-8	Isopropylbenzene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
541-73-1	1,3-Dichlorobenzene		10	U
106-46-7	1,4-Dichlorobenzene		10	U
95-50-1	1,2-Dichlorobenzene		10	U
96-12-8	1,2-Dibromo-3-Chloropropane		10	U
120-82-1	1,2,4-Trichlorobenzene		10	U

Data Path : C:\MSDCHEM\1\DATA\071207\
Data File : E3527.D
Acq On : 7 Dec 2007 1:45 pm
Operator :
Sample : 071204030-001A MSD
Misc : MSD EPA 8260 WATER
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 11 11:13:10 2007
Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M
Quant Title : VOA TCL list OLM4.1
QLast Update : Fri Dec 07 13:34:26 2007
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D



Data Path : C:\MSDCHEM\1\DATA\071207\

Data File : E3527.D

Acq On : 7 Dec 2007 1:45 pm

Operator :

Sample : 071204030-001A MSD

Misc : MSD EPA_8260_WATER

ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 11 11:13:10 2007

Quant Method : C:\MSDCHEM\MSDEMO\TCLOLM4.M

Quant Title : VOA TCL list OLM4.1

QLast Update : Fri Dec 07 13:34:26 2007

Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\071207\ES393.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	3.99	128	10156	50.00	ug	0.00
26) 1,4-Difluorobenzene	5.26	114	147759m	50.00	ug	0.00
44) Chlorobenzene-d5	8.23	117	102228	50.00	ug	0.00
System Monitoring Compounds						
24) 1,2-Dichloroethane-d4	4.76	65	37521	59.92	ug	0.00
45) Toluene-d8	6.76	98	129918	44.22	ug	0.00
56) Bromofluorobenzene	9.42	95	68902	47.89	ug	0.00
Target Compounds						
9) 1,1-Dichloroethene	1.54	96	26181m	69.68	ug	Qvalue
16) Mtbe	2.09	73	4109	5.96	ug	# 75
30) Benzene	4.69	78	249365	47.35	ug	100
32) Trichloroethene	5.47	130	58374	45.40	ug	99
47) Toluene	6.83	92	159851	56.35	ug	90
50) Chlorobenzene	8.25	112	177488	56.61	ug	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

CLP

SAMPLE CALCULATIONS FOR VOLATILE ORGANICS:

1) RRF of Trichloroethene from the VSTD050 analyzed on 12/7/07:

$$\begin{aligned} &= \frac{\text{area of Trichloroethene in std.}}{\text{area of internal std}} \times \frac{\text{concentration of internal standard.}}{\text{concentration of standard}} \\ &= \frac{60744}{139603} \times \frac{50}{50} = 0.435 \end{aligned}$$

2) Amount of Trichloroethene in sample AX-MW-11S MS (AES sample number 071204030-001 MS):

$$\begin{aligned} \text{ug/L} &= \frac{\text{area of Trichloroethene in sample}}{\text{area of internal standard in sample}} \times \frac{\text{amount of internal std. (ng)}}{(\text{ml of sample purged})(\text{RRF})} \\ &= \frac{58032}{140354} \times \frac{(250)}{(5.0)(0.435)} = 47.5 \text{ ug/L} \end{aligned}$$

which is reported as 48 ug/L on the Form I for Volatile Organics

3) Calculation of spike recovery for Trichloroethene in sample AX-MW-11S Matrix Spike:

$$\text{Percent spike recovery} = \frac{\text{quantity determined by analysis}}{\text{quantity added to sample}} \times 100$$

$$\% \text{ recovery of Trichloroethene} = \frac{(47.5 - 0.0)}{50.0} \times 100 = 95.0 \%$$

Analyst	Date	Time	File ID	Sample ID	DF	pH	QA/QC Checks		Comments
							Surrogate Check	Internal Std Check	
ML	12/7/07		ET393	BFB-nj -OR saved					
			ES393	VST0050 -CC updated					
BFB=10A8-45F		Q/	EB393	VBULK			OK	OK	
IS=	-39D	Q/	E3521	12040301A	1		OK	OK	MTBE=7
G=	-45F	Q/	E3522	-2A	1		OK	OK	MTBE=8
MM=	-43E	Q/	E3523	-3A	1		OK	OK	
MS=	-42E	Q/	E3524	-4A	1		OK	OK	
		Q/	E3525	-5A	1		OK	OK	
17916		Q/	E3526	-1AMS			OK	OK	
139603		Q/	E3527	-1AMS0			OK	OK	
117534		Q/	E3528	VMSB			OK	OK	