ENVIRONMENTAL
PLANNING &
MANAGEMENT, INC.

James Hahn
James J. Hahn Engineering
Putnam Business Park
1689 Route 22
Brewster, NY 10509

January 21, 2011

Dear Mr. Hahn:

Enclosed please find the annual monitoring report of 2010 for the Katonah Municipal Well, Town of Bedford, Westchester County, New York (NYSDEC Site ID # 3-60-007).

Please call should you have any questions.

Sincerely,

Stephen Cherepany
Project Scientist

cc: Kenneth Caffrey, PE, NYSDOH
Carl Hoffman, NYSDEC
William Nixon, Town of Bedford
Paul Kutzy, Westchester County DOH
Damian Duda, USEPA Region 2

GROUNDWATER QUALITY MONITORING
ANNUAL REPORT
DECEMBER 29, 2010
KATONAH MUNICIPAL WELL
TOWN OF BEDFORD
WESTCHESTER, NEW YORK
NYSDEC SITE ID # 3-60-007

EPM PROJECT NUMBER: 10001

PREPARED FOR:

James J. Hahn Engineering
Millbrook Office Center
Route 22 & Milltown Road
Brewster, New York 10509

PREPARED BY:

Environmental Planning & Management, Inc.
1983 Marcus Avenue, Suite 109
Lake Success, New York 11042

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1.0 INTRODUCTION

This annual groundwater sampling and analysis report has been prepared for the Katonah Municipal Well Site in Katonah, Town of Bedford, New York. This submittal is in accordance with the groundwater monitoring requirements of the New York State Department of Health (NYSDOH) and the United States Environmental Protection Agency (USEPA). This report includes the data collection and analysis results of the remedial system operation, for the year-end of 2010. Sampling of the remedial system and the two existing monitoring wells was conducted on December 29, 2010.

2.0 SAMPLE COLLECTION

Environmental Planning & Management, Inc., collected samples on December 29, 2010. Three sample sets were collected from sampling taps; the raw water sampling tap (RW), the stripper number two effluent sampling tap (STEFF), and the distribution sampling tap (DIST). One field duplicate sample (DUP) was collected from the Raw Water sampling tap. Samples were also collected from two monitoring wells, W4 and W11. Sample locations are shown on Figure 1 - Sampling Tap Location Schematic. Sampling was conducted in accordance with the approved Project Operation Plan.

Samples were labeled at the field location and placed into transport coolers containing ice. A field equipment blank, trip blank and chain-of-custody documentation accompanied the samples to the laboratory for analysis. The samples were analyzed by Accutest laboratories, of Dayton, New Jersey (NYS-Department of Health approved Environmental Laboratory Accreditation Program (ELAP) laboratory #10983, in accordance with CLP methods, for volatile organics (Principal Organic Contaminants), by USEPA method 524.2, revision number 3.

3.0 FINDINGS

VOC Analysis

Table 1 provides a summary of the analytical results for the annual water quality monitoring, as well as the applicable NYSDOH Drinking Water Standards and the US EPA clean-up requirement for Tetrachloroethene (PCE). As indicated by the laboratory analysis, the treatment system effluent meets the NYSDOH drinking water standards and the USEPA clean-up level of less than one part per billion (ppb) (or non-detectable) for Tetrachloroethene and meets the levels of less than 100 parts per billion for Trihalomethanes.

Tetrachloroethene was detected in the untreated Raw Water (RW) sample, at a concentration of 29.3 µg/L (ppb), which exceeds the NYSDOH drinking water standard and the USEPA clean-up standard for this compound of 5 ppb and 1 ppb respectively. Sample RW also exhibited Trichloroethylene at a concentration of 0.90 ppb, and cis-1,2-Dichloroethene at a concentration of 0.58 ppb, which is below the NYSDOH drinking water standard and the USEPA Standard of 5 ppb for both compounds.

Analytical results for the duplicate sample (DUP) of the Raw Water (RW) similarly exhibited Tetrachloroethene at a concentration 29.4 ppb. This sample also exhibited Trichloroethylene at a concentration of 0.95 ppb, and cis-1,2-Dichloroethene at a concentration of 0.60 ppb, which is below the NYSDOH drinking water standard and the USEPA Standard of 5 ppb for both compounds.

No VOCs were detected in the treated (stripper number 2) water sample, STEFF.

Three VOCs, Bromodichloromethane, Bromoform and Dibromochloromethane were detected in the Distribution (DIST) water sample at a concentration of 1.2 ppb, 8.3ppb and 4.6ppb, respectively; however this is well below the NYSDOH drinking water standard and the USEPA Standard of 50 ppb for these three compounds.

Two VOCs, Trichloroethylene, and cis-1,2-Dichloroethene were detected in monitoring well 4 (W4) with a concentration of 0.28 ppb, and 0.88 respectively, which is below the NYSDOH drinking water standards and the USEPA Cleanup Standards for both compounds.

One VOC, Tetrachloroethene was detected in monitoring well 11 (W11) with a concentration of 0.59 ppb which is below the NYSDOH drinking water standard and the USEPA Cleanup Standard for this compound.

No VOCs were detected in the Field Blank (FB) or Trip blank water samples, thus suggesting that no contamination was introduced during sampling or that cross-contamination occurred during delivery to the laboratory.

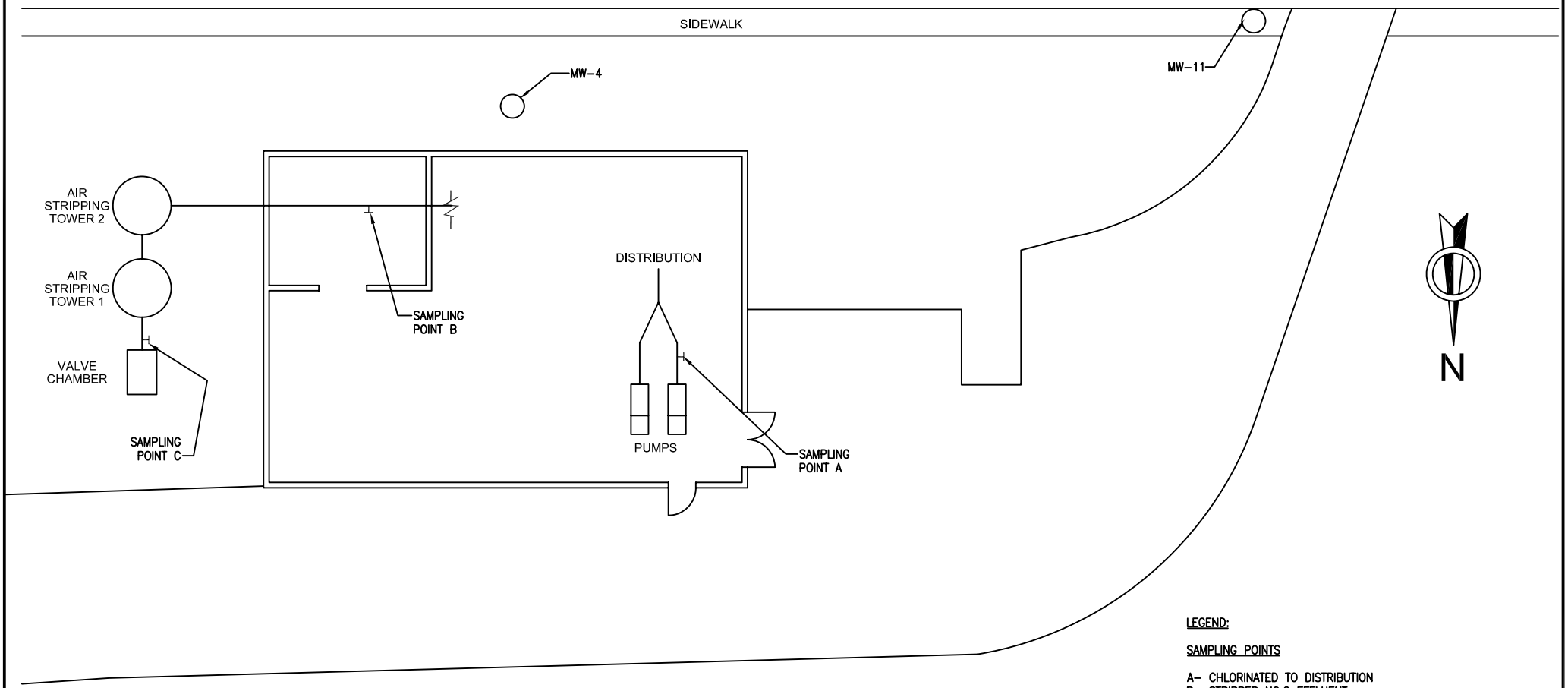
Refer to Table 1 for a summary of the groundwater analysis results for volatile organic

compounds (VOCs). Table 1 reflects the detectable concentration values which have been qualified as a result of data validation. Refer to Appendix A for the data validation report which details any variations of the detectable concentration values discussed above.

The PCE concentration in the Influent (raw water) has increased relative to the last sampling event (see Figure 2). To date, the PCE level in the raw water samples is not of significant concern, since the treated water and distribution water samples continue to exhibit non-detectable or insignificant concentrations of PCE. However, changes in PCE levels will continue to be closely monitored.

Table 1 - SUMMARY OF ANNUAL VOC RESULTS KATONAH MUNICIPAL WELL								
Date Collected	**12/29/2010**							
Sample Location	**Raw Water (Influent)**	**RW DUP**	**STEFF (Treated Water)**	**DIST (Distribution Water)**	**W4 (Well 4)**	**W11 (Well 11)**	**FB (Field Blank)**	**NYSDOH\ USEPA Standard**
Volatile Organic Compounds (ppb)								
Tetrachloroethylene (127-18-4)	**29.3**	**29.4**	ND	ND	ND	0.59	ND	**5/1***
Trichloroethylene (79-01-6)	0.90	0.95	ND	ND	0.28 J	ND	ND	**5**
cis-1,2-Dichloroethylene (156-59-2)	0.58	0.60	ND	ND	0.88	ND	ND	**5**
Methylene Chloride (75-09-2)	ND	ND	ND	ND	ND	ND	ND	**5**
Bromoform (75-25-2)	ND	ND	ND	8.3	ND	ND	ND	**50**
Dibromochloromethane (124-48-1)	ND	ND	ND	4.6	ND	ND	ND	**50**
Bromodichloromethane (75-27-4)	ND	ND	ND	1.2	ND	ND	ND	**50**
Methyl Tert Butyl Ether(MTBE 1634-04-4)	ND	ND	ND	ND	ND	ND	ND	**0.010**

* 1 ppb is the USEPA cleanup standard for the site
1 - Determined undetect following data validation
Level exceeds the USEPA/NYSDOH standard
U Denotes detection limit/not detected
J Denotes an estimated value
N Presumptive evidence of a compound
R Determined unusable following data validation
NS No standard
B Denotes Detection in the Field Blank as well
ND No Detectable Concentration
NR Denotes sample not analyzed for this compound



PEM ENVIRONMENTAL PLANNING & MANAGEMENT, INC.
1983 MARCUS AVENUE
SUITE 109
LAKE SUCCESS, NEW YORK 11042

DRAWN BY: AMR	DATE:	CLIENT: KATONAH MUNICIPAL WATER SYSTEM	TITLE: SIMPLIFIED SAMPLING LOCATION SCHEMATIC
CHECKED BY: FP	FILENAME: KATONAH		PROJECT LOCATION: KATONAH MUNICIPAL WATER SYSTEM KATONAH, NEW YORK
APPR'VD BY: ASG	SCALE: NOT TO SCALE		DRAWING NO: FIG. 1
PATH: C:\AMR\BEDFORD\KATONAH\22001DWGS			SHEET 1 OF 1

Figure 2

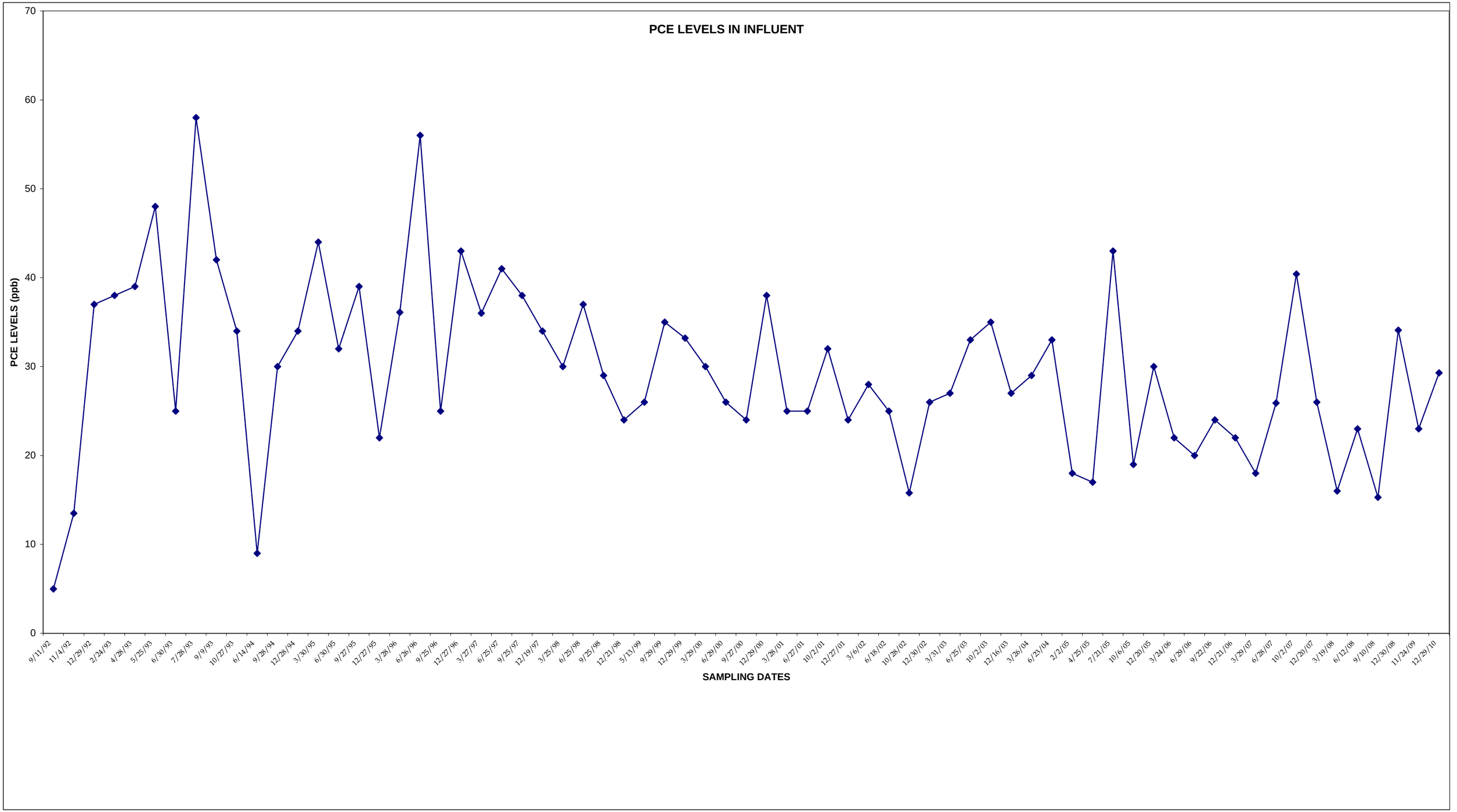


FIGURE -2

4.0 FUTURE ACTIONS

Water quality monitoring will continue to be conducted annually at the treatment system influent, stripper effluent, distribution point, and the two groundwater monitoring wells.

The next annual sampling event for the year-end of 2011, the twentieth year of sampling, is tentatively scheduled for the month of December, 2011.

APPENDIX A

DATA VALIDATION REPORT

C.T. MALE ASSOCIATES, P.C.

50 Century Hill Drive, Latham, NY 12110
518.786.7400 FAX 518.786.7299 ctmale@ctmale.com

January 19, 2011

Mr. Stephen Cherepany
Environmental Planning & Management, Inc.
1983 Marcus Ave. Suite 109
Lake Success, New York 11042

Re: Data Validation – Katonah – 4th Quarter 2010 Water Sampling
C.T. Male Project No.:07.7690

Dear Mr. Cherepany:

This Data Validation Summary Report for organic analysis was generated for the samples collected in association with the field investigation for the Katonah 4th Quarter 2010 Water Sampling. Five (5) water samples were collected on December 29, 2010. The samples were submitted, along with a field duplicate, a matrix spike (MS) sample, a MS duplicate (MSD) sample, a field blank and a trip blank to Accutest Laboratories (Accutest) in Dayton, New Jersey for volatile organic analysis (VOA) by the United States Environmental Protection Agency (USEPA) Method 524.2 by Gas Chromatography / Mass Spectrometry (GC/MS).

C. T. Male Associates, P. C. evaluated the data reported by the laboratory to determine data usability and deviations in accordance with the *USEPA Region II Standard Operation Procedure for the Validation of Organic Data Acquired Using Method 524.2* (October 2001); with guidance from the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (June 2008); and the appropriate method from the *New York State Department of Environmental Conservation (NYSDEC) Analytical Service Protocols (ASP)*, where applicable. The following criteria were reviewed:

- Completeness of data package as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables;
- Holding time compliance for chemical analysis;
- Protocol required limits and specification compliance for quality control (QC) data (e.g., instrument tuning, calibration standards, blank results, spike results, duplicate results, etc);
- Contract compliance for analytical protocols;
- Omissions and transcription errors; and
- Data qualification.

1.0 Data Completeness

Documentation required by the project was included in the data package. There were no discrepancies found between the raw data and summary forms. The laboratory Case Narrative (Attachment A) identified deviations from laboratory analytical specifications. QC exceedences and data qualification recommendations are presented in the Data Evaluation Checklist (Attachment B).

Qualified sample results are presented in the laboratory summary forms, which are located in Attachment C. QC exceedences and data qualification recommendations are summarized below.

2.0 Sample Condition Upon Receipt

Accutest received all the samples listed on the chain of custody (COC) record intact and in good condition. The temperature of samples was within laboratory specification limits of 2 to 6°C upon receipt.

3.0 VOA by USEPA Method 524.2 GC/MS

3.1 Holding Times

The project samples were analyzed within the acceptable NYSDEC ASP holding time of 10 days from Verified Time of Sample Receipt (VTSR) for the preserved water samples.

3.2 GC/MS Instrument Performance Check and Calibration

All samples were analyzed within 12 hours of the performance check standard, BFB. Percent relative abundance of all ions met the criteria specified in Table 3 of the USEPA Method 524.2. Laboratory specifications were met during the initial and continuing calibrations associated with the project samples. In addition the average relative response factor (RRF) was greater than or equal to 0.05 for target analytes during the initial and continuing calibrations, except the RRF results were below 0.05 during the initial and continuing calibrations associated with the project samples for acetone. The associated results have been qualified as estimated (J/UJ) due to poor correlation in the calibration standards. The percent relative standard deviation (%RSD) between RRF was less than or equal to 30% during the initial calibration, and the percent difference (%D) between the initial calibration average RRF and continuing calibration RRF was less than or equal to 25% for target analytes.

3.3 Surrogate Recovery and Internal Standards

Surrogate recovery and internal standard results met laboratory specifications for project samples.

3.4 Laboratory Control Sample (LCS)

The percent recovery (%R) results for LCS analyses were within laboratory specifications for the target analytes.

3.5 Matrix Spike and Matrix Spike Duplicate (MS/MSD)

Criteria for accuracy were met during the MS/MSD analysis of sample RW for target analytes except the %R of the MS and MSD were below laboratory specifications for tetrachloroethylene. The associated results have been qualified as estimated (J) due to analytical inaccuracy.

3.6 Method Blanks, Field Blank and Trip Blank

A method blank was reported for each analytical batch. A trip blank and a field blank were submitted to the laboratory for VOA. Target analytes were not detected during the analysis of the method blank, the trip blank or the field blank associated with the project samples.

3.7 Field Duplicates

A field duplicate evaluation was performed on samples DUP (blind field duplicate) and RW. Refer to Attachment B-1 for the duplicate evaluation. Criteria for precision was achieved for the detected analytes.

Summary

Overall, data quality objectives were met, as there were no data deficiencies that would indicate the need for re-sampling. All data reviewed is considered to be valid and usable with the appropriate qualifiers as noted in the data summary forms located in Attachment C. No analytical data has been rejected.

If you have any questions please contact me at (518) 786-7400.

Sincerely,

C. T. MALE ASSOCIATES, P. C.

Megan Drosky
Environmental Scientist

Enclosures

ATTACHMENT A
Case Narrative

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Environmental Planning and Management **Job No:** JA65236

Site: Katonah Q4, Katonah Pump House, Bedford, NY **Report Date** 1/10/2011 1:09:25 PM

On 12/30/2010, 6 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.6 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA65236 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method EPA 524.2 REV 4.1

Matrix: AQ **Batch ID:** V1B2368

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA65236-1MS, JA65236-1MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

ATTACHMENT B
Data Evaluation Checklist

Data Evaluation Checklist
Organic Analyses

Project: Environmental Planning and Management – Katonah
Job No.: JA65236
Laboratory: Accutest Laboratories – New Jersey

Project No: 07.7690
Method: USEPA 524.2 (VOA)
Associated Sample IDs: RW, DUP, DIST, STEFF, MW-4, MW-11, FB and TB
Sample Date: 12/29/10
Date: 01/19/11

Reviewer: Megan Drosky

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were holding times met?	✓			VOA: ≤10 days	
2. Were sample storage and preservation requirements met?	✓			4.6°C (2-6°C).	
3. Was a method blank analyzed with each batch?	✓			VOA: V1B2368-MB1	
4. Were target analytes reported in the method or calibration blanks above the Detection Limit?		✓			
5. Were target analytes reported in field blank analyses (e.g., trip, ~~ambient, field, or equipment~~) above the DL?		✓			
6. Were contaminants detected in samples below the blank contamination action level?			✓	Blank contamination does not exist.	
7. Were initial and continuing calibration standards analyzed at the lab-specified frequency for each instrument?	✓			• VOA o Initial calibration: 12/08/10 o Continuing calibration: 01/03/11 @ 09:38	
8. Were these results within lab or project specifications?		✓		VOA – • Initial calibration of 12/08/10. The RF >0.05 and %RSD between response factors was less than 30% for target analytes except acetone (0.031 RRF). J/UJ • Continuing calibration of 01/03/11. The RF>0.05 and %D <25% for target analytes except acetone (0.032 RRF). J/UJ	J/UJ
9. Was a LCS analyzed with each batch?	✓			VOA: V1B2368-BS	
10. Were LCS' recoveries within lab specifications?	✓				
11. Were LCS/LCSD RPD within lab specifications?			✓	LCS only	
12. Was a MS/MSD pair analyzed with each batch?	✓			VOA: JA65236-1 (RW)	
13. Is the MS/MSD parent sample a project-specific sample?	✓				

Data Evaluation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
14. Were MS/MSD recoveries within lab specifications? *Only QC results for project samples are evaluated.*		✓		RW: • Tetrachloroethylene @12 and 40%R (45-145). J	J
15. Were MS/MSD RPD within lab specifications? *Only QC results for project samples are evaluated.*	✓				
16. Was a laboratory duplicate analyzed with each batch?			✓		
17. Is the laboratory duplicate sample a project-specific sample?			✓		
18. Does laboratory duplicate results meet lab specifications? *Only QC results for project samples are evaluated.*			✓		
19. Were surrogate recoveries within lab specifications during organic analysis?	✓				
20. Were internal standard results within lab specifications during the VOA?	✓				
21. Were TIC reported and were reported results qualified as estimated concentrations?		✓			
22. Were field duplicate samples submitted to the laboratory for analysis?	✓			DUP is the field duplicate of RW.	
23. Was precision deemed acceptable as defined by DV Guidelines?	✓			Refer to Attachment B-1 for duplicate evaluation.	
24. Were lab comments included in report? If yes, summarize contents or attach a copy of the narrative.	✓			Refer to Case Narrative	

Comments:

The data review process was modeled after the Appendix 2B, Guidance for the Development of Data Usability Summary Reports, of *DER-10 Technical Guidance for Site Investigation and Remediation* (NYSDEC, May 2010) with guidance from the applicable Region 2 RCRA and CERCLA Field and Data Validation Standard Operating Procedures and the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (June 2008).

Key:

J Positive sample result is considered estimated
R Unusable data
R+ Positive sample result is considered unusable
U Not present above the associated level; blank contamination exists
UJ Sample result is not detected and the detection limit is considered estimated
ND Sample result is not detected
N A "tentative identification" has been made of the presence of an analyte

Evaluation of Field Duplicate Results

ATTACHMENT B-1

Analyte	RW	DUP	MDL	MDLx5	*Criteria*	RPD	Absolute difference	Action
Chloroform	0.072	0.082	0.058	0.29	*Abs Diff*	13	0.01	None, absolute difference <MDL
cis-1,2-Dichloroethylene	0.58	0.6	0.084	0.42	*RPD*	3	0.02	None, RPD<20%
Tetrachloroethylene	29.3	29.4	0.067	0.335	*RPD*	0	0.1	None, RPD<20%
Trichloroethylene	0.9	0.95	0.11	0.55	*RPD*	5	0.05	None, RPD<20%

Note: If the analyte was not detected, then the cell is left blank.
RPD - Relative percent difference
*Results are reported in ug/L
Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the MDL, then precision is based on the absolute difference between duplicate results. If sample results >5x's MDL, then precision is evaluated using RPD. J sample results whenever the absolute difference is greater than MDL or RPD >20%. If the analyte is detected in one sample but not the other, then J/UJ sample results. Above table presents results for detected analytes only. Blank cells indicate that the analyte was not detected.

ATTACHMENT C
Qualified Sample Results

Raw Data: 1B51766.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA65236-1	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51766.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND U3		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.072		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Sample results have been qualified by C. T. Male Associates, P.C. based on the results of the data review process, which is modeled after the *USEPA CLP National Functional Guidelines for Organic Data Review* (June 2008) and the *USEPA SOP Method 524.2*.

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA65236-1	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.58	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	29.3	5.0	0.50	0.067	ug/l	J
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.90	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	110%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Sample results have been qualified by C. T. Male Associates, P.C. based on the results of the data review process, which is modeled after the *USEPA CLP National Functional Guidelines for Organic Data Review* (June 2008) and the *USEPA SOP Method 524.2*.

Raw Data: 1B51767.D

Accutest Laboratories

Report of Analysis

3.2 3

Client Sample ID:	DUP		
Lab Sample ID:	JA65236-2	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51767.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND U5		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.082		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	JA65236-2	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.60	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	29.4	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.95	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51768.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA65236-3	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51768.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND U		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	1.2		0.50	0.038	ug/l	
75-25-2	Bromoform	8.3		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.26		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	4.6		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Sample results have been qualified by C. T. Male Associates, P.C. based on the results of the data review process, which is modeled after the *USEPA CLP National Functional Guidelines for Organic Data Review* (June 2008) and the *USEPA SOP Method 524.2*.

Accutest Laboratories

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA65236-3	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%		78-114%
460-00-4	4-Bromofluorobenzene	102%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51769.D

Accutest Laboratories

Report of Analysis

3.4
6

Client Sample ID:	STEFF		
Lab Sample ID:	JA65236-4	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water Eff	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51769.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND (U3)		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	STEFF		
Lab Sample ID:	JA65236-4	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water Eff	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	105%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51770.D

Accutest Laboratories

Report of Analysis

3.5

Client Sample ID:	MW-4		
Lab Sample ID:	JA65236-5	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51770.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND U5		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA65236-5	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.88	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.28	5.0	0.50	0.11	ug/l	J
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51771.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA65236-6	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51771.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND U3		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.089		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA65236-6	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	0.59	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	111%		78-114%
460-00-4	4-Bromofluorobenzene	103%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51772.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA65236-7	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water FB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51772.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA65236-7	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water FB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	104%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 1B51773.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA65236-8	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water TB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51773.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA65236-8	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water TB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	107%		78-114%
460-00-4	4-Bromofluorobenzene	106%		77-115%

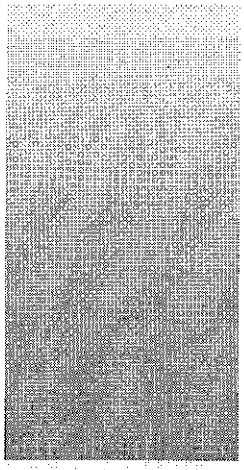
ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

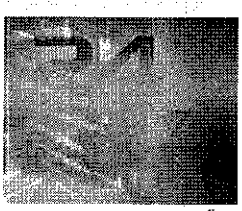
APPENDIX B

LABORATORY ANALYSIS SUMMARY REPORT

New Jersey
ACCUTEST
LABORATORIES

01/10/11





Technical Report for

Environmental Planning and Management

Katonah Q4, Katonah Pump House, Bedford, NY

10001

Accutest Job Number: JA65236

Sampling Date: 12/29/10

Report to:

EPM
1983 Marcus Avenue Suite 109
Lake Success, NY 11042
scherepany@epmco.com

ATTN: Steve Cherepany

Total number of pages in report: 142

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Tony Esposito 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

Sections: 1 2 3 4 5 6

Table of Contents

Sample Summary

Environmental Planning and Management

Job No: JA65236

Katonah Q4, Katonah Pump House, Bedford, NY
Project No: 10001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JA65236-1	12/29/10	11:15	SC	12/30/10	DW	Drinking Water	RW
JA65236-1D	12/29/10	11:25	SC	12/30/10	DW	Drinking Water Dup.	RW MSD
JA65236-1S	12/29/10	11:25	SC	12/30/10	DW	Drinking Water MS	RW MS
JA65236-2	12/29/10	00:00	SC	12/30/10	DW	Drinking Water	DUP
JA65236-3	12/29/10	10:00	SC	12/30/10	DW	Drinking Water	DIST
JA65236-4	12/29/10	10:45	SC	12/30/10	DW	Drinking Water Eff	STEFF
JA65236-5	12/29/10	12:10	SC	12/30/10	DW	Drinking Water	MW-4
JA65236-6	12/29/10	13:30	SC	12/30/10	DW	Drinking Water	MW-11
JA65236-7	12/29/10	13:15	SC	12/30/10	DW	Drinking Water FB	FB
JA65236-8	12/29/10	13:30	SC	12/30/10	DW	Drinking Water TB	TB

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Environmental Planning and Management **Job No:** JA65236

Site: Katonah Q4, Katonah Pump House, Bedford, NY **Report Date** 1/10/2011 1:09:25 PM

On 12/30/2010, 6 Sample(s), 1 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.6 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA65236 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method EPA 524.2 REV 4.1

Matrix: AQ **Batch ID:** V1B2368

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA65236-1MS, JA65236-1MSD were used as the QC samples indicated.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Tetrachloroethylene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA65236-1	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51766.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.072		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA65236-1	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.58	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	29.3	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.90	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	110%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	JA65236-2	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51767.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.082		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	JA65236-2	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.60	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	29.4	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.95	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA65236-3	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51768.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	1.2		0.50	0.038	ug/l	
75-25-2	Bromoform	8.3		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.26		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	4.6		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA65236-3	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%		78-114%
460-00-4	4-Bromofluorobenzene	102%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	STEFF		
Lab Sample ID:	JA65236-4	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water Eff	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51769.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	STEFF		
Lab Sample ID:	JA65236-4	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water Eff	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	105%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA65236-5	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51770.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA65236-5	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.88	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	0.28	5.0	0.50	0.11	ug/l	J
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%		78-114%
460-00-4	4-Bromofluorobenzene	101%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA65236-6	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51771.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	0.089		0.50	0.058	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA65236-6	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	0.59	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	111%		78-114%
460-00-4	4-Bromofluorobenzene	103%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA65236-7	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water FB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51772.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA65236-7	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water FB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%		78-114%
460-00-4	4-Bromofluorobenzene	104%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA65236-8	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water TB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B51773.D	1	01/03/11	MFH	n/a	n/a	V1B2368
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	1.8	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.038	ug/l	
75-25-2	Bromoform	ND		0.50	0.093	ug/l	
74-83-9	Bromomethane	ND		0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND		0.50	0.14	ug/l	
67-66-3	Chloroform	ND		0.50	0.058	ug/l	
74-87-3	Chloromethane	ND		0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.059	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA65236-8	Date Sampled:	12/29/10
Matrix:	DW - Drinking Water TB	Date Received:	12/30/10
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
541-73-1	m-Dichlorobenzene	ND		0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.089	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.076	ug/l	
110-54-3	Hexane	ND		0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.37	ug/l	
91-20-3	Naphthalene	ND		0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.12	ug/l	
100-42-5	Styrene	ND	100	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.067	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.080	ug/l	
	m,p-Xylene	ND		1.0	0.21	ug/l	
95-47-6	o-Xylene	ND		0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	107%		78-114%
460-00-4	4-Bromofluorobenzene	106%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody
- 2010 MDL Study - Method: EPA 524.2 REV 4.1

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www. acutest.com

PAGE 1 OF 1

FED-EX Tracking # 8592 4353 1391 | Bottle Order Control # KM - 12/22/2010-6
Acutest Quote # | Acutest Job # JA65236

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name: EPM Inc	Project Name: Katonah 2010		DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank
Street Address: 1983 Marcus Ave	Street: Katonah Pump House	Billing Information (if different from Report to)	
City: Lake Success State: NY Zip: 11042	City: Bedford, NY State:	Company Name	
Project Contact: Steve Cherepany E-mail: scherepany@epmnet.com	Project #: 10001	Street Address	
Phone #: 516-358-1194 Fax #: 516-328-1351	Client Purchase Order #: ~~KM~~ KM-12/22/2010-6	City State Zip	
Sampler(s) Name(s): S. Cherepany Phone #	Project Manager: S. Cherepany	Attention:	

Acutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	524.2 Rev 3 VOCs	LAB USE ONLY
-1	RW		12/29/10	11:15	SC	DW	3	X								X	
	RW/MS MSD			11:25			3	X								X	4992
-2	DUP			—			3	X								X	
-3	DIST			10:00			3	X								X	
-4	STEFF			10:45			3	X								X	
-5	MW-4			12:10			3	X								X	
-6	MW-11			13:30			3	X								X	
-7	FB			13:15		WW	2	X								X	
-8	TB		12/22/10	1400		WW	2	X								X	

Turnaround Time (Business days)
- [X] Std. 15 Business Days
- [ ] Std. 10 Business Days (by Contract only)
- [ ] 10 Day RUSH
- [ ] 5 Day RUSH
- [ ] 3 Day EMERGENCY
- [ ] 2 Day EMERGENCY
- [ ] 1 Day EMERGENCY

Approved By (Acutest PM): / Date:

Emergency & Rush T/A data available VIA Labilink

Data Deliverable Information
- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [ ] NJ Reduced
- [ ] Commercial "C"
- [ ] NYASP Category A
- [X] NYASP Category B
- [ ] State Forms
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions
* NY Cat B *

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	S. Cherepany	12/29/10	Fed Ex	Fedex	12/30 10:00	
2					10:30	
3						
4						
5						

Custody Seal # | Intact | Not Intact | Preserved where applicable | On Ice | Cooler Temp. 4.6°C

B

TA1

4.1 4

JA65236: Chain of Custody
Page 1 of 3

ACCUTEST

Sample Log-In Summary

JA65236
COO

Lab Name: ______ Page ___ of ___

Received by (Print Name): Timothy Hudson Log-in Date: ______

Received by (Signature): [signature]

Case Number: N/A
SDG Number:
SAS Number: N/A

REMARKS:

1. Custody Seal(s) Present/Absent* (Absent circled) Intact/Broken
2. Custody Seal Numbers:
3. Chain-of-Custody Records Present/Absent* (Present circled)
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/Absent*
5. Airbill Airbill/Sticker (Airbill circled) Present/Absent*
6. Airbill No.: 8592 4353 1391
7. Sample Tags Present/Absent* (Present circled) Sample Tag Nos. Listed/Not Listed on Chain-of-Custody
8. Sample Condition Intact/Broken*/Leaking (Intact circled)
9. Does Information on custody rec., CLSIS, & sample tags agree Yes/No* (Yes circled)
10. Date received at Lab: 12-30-10
11. Time Received: 09:30
12. Do aqueous VOC vials have headspace? Yes/No* (No circled)
13. Are preserved voc soil samples fully immersed in preservative?. Yes/No* N/A (N/A circled)

NYSDEC SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
N/A		JA65236 -1	OK
N/A		-2	
N/A		-3	
N/A		-4	
N/A		-5	
N/A		-6	
N/A		-7	
N/A		-8	
N/A			
N/A			
N/A			
N/A			
N/A			
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N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

Sample Transfer
Fraction:
Area #:
By:
On:

See Internal Chain of Custody

* Contract BTSR and attach record of resolution
Reviewed By:
Date:

Logbook No.: N/A
Logbook Page No.: N/A

Form: SM10-02
Rev. Date: 8/21/03

JA65236: Chain of Custody
Page 2 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA65236 **Client:** _____ **Immediate Client Services Action Required:** No

Date / Time Received: 12/30/2010 **Delivery Method:** _____ **Client Service Action Required at Login:** No

Project: _____ **No. Coolers:** 1 **Airbill #'s:** _____

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	Infared gun
3. Cooler media:	Ice (bag)

Quality Control Preservatio	Y or N	N/A
1. Trip Blank present / cooler:	☑ ☐	☐
2. Trip Blank listed on COC:	☑ ☐	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☑ ☐	☐

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

4.1

JA65236: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Environmental Planning and Management

Job No: JA65236

Katonah Q4, Katonah Pump House, Bedford, NY
Project No: 10001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA65236-1 RW	Collected: 29-DEC-10 11:15 By: SC		Received: 30-DEC-10 By: TH			
JA65236-1	EPA 524.2 REV 4.1	03-JAN-11 12:04	MFH			V524STD
JA65236-2 DUP	Collected: 29-DEC-10 00:00 By: SC		Received: 30-DEC-10 By: TH			
JA65236-2	EPA 524.2 REV 4.1	03-JAN-11 12:35	MFH			V524STD
JA65236-3 DIST	Collected: 29-DEC-10 10:00 By: SC		Received: 30-DEC-10 By: TH			
JA65236-3	EPA 524.2 REV 4.1	03-JAN-11 13:07	MFH			V524STD
JA65236-4 STEFF	Collected: 29-DEC-10 10:45 By: SC		Received: 30-DEC-10 By: TH			
JA65236-4	EPA 524.2 REV 4.1	03-JAN-11 13:40	MFH			V524STD
JA65236-5 MW-4	Collected: 29-DEC-10 12:10 By: SC		Received: 30-DEC-10 By: TH			
JA65236-5	EPA 524.2 REV 4.1	03-JAN-11 14:12	MFH			V524STD
JA65236-6 MW-11	Collected: 29-DEC-10 13:30 By: SC		Received: 30-DEC-10 By: TH			
JA65236-6	EPA 524.2 REV 4.1	03-JAN-11 14:44	MFH			V524STD
JA65236-7 FB	Collected: 29-DEC-10 13:15 By: SC		Received: 30-DEC-10 By: TH			
JA65236-7	EPA 524.2 REV 4.1	03-JAN-11 15:16	MFH			V524STD
JA65236-8 TB	Collected: 29-DEC-10 13:30 By: SC		Received: 30-DEC-10 By: TH			
JA65236-8	EPA 524.2 REV 4.1	03-JAN-11 15:48	MFH			V524STD

Accutest Internal Chain of Custody

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY
Received: 12/30/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA65236-1.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-1.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-1.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-1.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-1.2	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-1.2	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-1.2	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-1.2	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-1.3	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-1.3	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-1.3	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-1.3	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-1.4	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-1.4	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-1.4	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-1.4	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-1.5	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-1.5	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-1.5	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-1.5	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-1.6	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-1.6	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-1.6	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-1.6	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-2.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-2.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-2.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-2.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-2.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-2.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-2.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-2.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-3.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-3.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-3.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-3.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY
Received: 12/30/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA65236-3.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-3.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-3.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-3.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-4.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-4.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-4.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-4.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-4.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-4.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-4.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-4.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-5.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-5.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-5.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-5.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-5.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-5.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-5.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-5.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-6.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-6.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-6.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-6.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-6.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-6.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-6.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-6.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-7.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-7.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-7.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-7.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-7.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-7.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-7.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument

Accutest Internal Chain of Custody

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY
Received: 12/30/10

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA65236-7.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage
JA65236-8.1	Secured Storage	MoHui Huang	12/30/10 16:41	Retrieve from Storage
JA65236-8.1	MoHui Huang	GCMS1B	12/30/10 16:41	Load on Instrument
JA65236-8.1	GCMS1B	MoHui Huang	01/03/11 09:34	Unload from Instrument
JA65236-8.1	MoHui Huang	Secured Storage	01/03/11 09:34	Return to Storage
JA65236-8.2	Secured Storage	MoHui Huang	01/03/11 09:36	Retrieve from Storage
JA65236-8.2	MoHui Huang	GCMS1B	01/03/11 09:36	Load on Instrument
JA65236-8.2	GCMS1B	MoHui Huang	01/04/11 11:20	Unload from Instrument
JA65236-8.2	MoHui Huang	Secured Storage	01/04/11 11:20	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1A, GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2010

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
Acetone	12-Feb-10	3	4.55	3.83	3.04	3.50	4.09	3.63	3.89	3.79	126.36	0.47	1.49	2.02
Acrolein	12-Feb-10	10	7.68	6.28	6.94	6.94	7.50	6.21	7.36	6.99	69.87	0.57	1.80	5.54
Acrylonitrile	9-Mar-10	2.5	1.37	1.84	1.80	1.98	2.13	2.26	1.84	1.89	75.52	0.29	0.90	2.78
Allyl chloride	26-Jan-10	0.5	0.49	0.48	0.49	0.59	0.55	0.54	0.41	0.51	101.52	0.06	0.18	2.73
2-Butanone	26-Jan-10	2.99988	3.04	2.97	3.60	3.49	4.72	3.69	3.37	3.56	118.50	0.58	1.83	1.64
Benzene	9-Mar-10	0.5	0.41	0.42	0.41	0.43	0.41	0.38	0.38	0.41	81.12	0.02	0.06	8.16
Bromobenzene	9-Mar-10	0.2	0.14	0.16	0.15	0.12	0.14	0.17	0.12	0.14	71.15	0.02	0.05	3.79
Bromochloromethane	12-Feb-10	0.5	0.33	0.36	0.33	0.35	0.23	0.26	0.31	0.31	62.08	0.05	0.15	3.32
Bromodichloromethane	9-Mar-10	0.2	0.14	0.15	0.14	0.12	0.15	0.15	0.12	0.14	70.40	0.01	0.04	5.31
Bromoform	9-Mar-10	0.5	0.38	0.40	0.39	0.45	0.36	0.40	0.35	0.39	77.98	0.03	0.09	5.38
Bromomethane	26-Jan-10	0.2	0.28	0.24	0.22	0.30	0.23	0.26	0.23	0.25	126.29	0.03	0.09	2.11
n-Butylbenzene	26-Jan-10	0.2	0.20	0.22	0.21	0.20	0.22	0.20	0.21	0.21	103.65	0.01	0.03	6.15
sec-Butylbenzene	26-Jan-10	0.5	0.53	0.52	0.54	0.56	0.51	0.52	0.50	0.53	105.18	0.02	0.06	8.52
tert-Butylbenzene	26-Jan-10	0.2	0.22	0.23	0.21	0.22	0.19	0.24	0.22	0.22	109.10	0.01	0.04	4.46
Carbon disulfide	21-Jan-10	1	0.94	0.93	0.95	0.92	0.92	0.91	0.88	0.92	92.25	0.02	0.07	14.20
Chloroacetonitrile	27-Jan-10	25	26.77	22.10	19.99	23.29	21.16	23.26	24.43	23.00	92.00	2.22	6.99	3.58
1-Chlorobutane	12-Feb-10	1	0.53	0.57	0.51	0.53	0.48	0.41	0.51	0.51	50.50	0.05	0.16	6.32
Chlorobenzene	12-Feb-10	1	0.89	0.83	0.83	0.84	0.84	0.83	0.82	0.84	84.00	0.02	0.07	14.27
Chloroethane	9-Mar-10	1	0.81	0.77	0.79	0.78	0.90	0.78	0.78	0.80	80.05	0.04	0.14	7.32
Chloroform	9-Mar-10	0.5	0.40	0.44	0.42	0.43	0.44	0.46	0.42	0.43	85.90	0.02	0.06	8.70
2-Chloroethyl vinyl ether	13-Jan-10	5	4.87	4.94	4.71	4.62	4.58	4.78	4.62	4.73	94.62	0.14	0.43	11.70
Chloromethane	8-Jan-10	0.2	0.20	0.22	0.32	0.29	0.21	0.27	0.31	0.26	129.37	0.05	0.16	1.30
o-Chlorotoluene	9-Mar-10	0.2	0.11	0.10	0.16	0.11	0.14	0.13	0.13	0.12	62.30	0.02	0.07	3.06
p-Chlorotoluene	9-Mar-10	1	0.90	0.90	0.89	0.88	0.86	0.82	0.86	0.87	86.97	0.03	0.09	11.26
Carbon tetrachloride	9-Mar-10	0.5	0.42	0.43	0.44	0.36	0.39	0.39	0.38	0.40	80.36	0.03	0.09	5.34
Cyclohexane	9-Mar-10	0.5	0.42	0.38	0.42	0.42	0.34	0.36	0.34	0.39	77.02	0.04	0.12	4.23
1,1-Dichloroethane	26-Jan-10	0.2	0.13	0.22	0.20	0.22	0.20	0.19	0.20	0.19	96.40	0.03	0.10	2.03
1,1-Dichloroethylene	9-Mar-10	0.5	0.40	0.39	0.35	0.38	0.30	0.40	0.31	0.36	72.60	0.04	0.13	3.86
1,1-Dichloropropene	9-Mar-10	1	0.87	0.88	0.83	0.76	0.79	0.91	0.78	0.83	83.01	0.06	0.18	5.47
1,2-Dibromo-3-chloropropane	9-Mar-10	0.5	0.42	0.34	0.22	0.46	0.18	0.34	0.16	0.30	60.56	0.12	0.37	1.34
1,2-Dibromoethane	9-Mar-10	0.2	0.10	0.16	0.14	0.14	0.10	0.14	0.14	0.13	66.45	0.02	0.07	2.67
1,2-Dichloroethane	9-Mar-10	0.2	0.17	0.13	0.15	0.19	0.18	0.17	0.20	0.17	85.45	0.02	0.07	2.79
1,2-Dichloropropane	9-Mar-10	0.5	0.40	0.47	0.37	0.39	0.44	0.38	0.38	0.40	80.66	0.04	0.12	4.32
1,3-Dichloropropane	9-Mar-10	0.2	0.17	0.15	0.18	0.14	0.15	0.17	0.14	0.16	78.45	0.01	0.05	4.37
2,2-Dichloropropane	26-Jan-10	0.5	0.56	0.59	0.55	0.57	0.54	0.57	0.47	0.55	109.82	0.04	0.12	4.11
Dibromochloromethane	12-Feb-10	0.5	0.31	0.37	0.30	0.35	0.34	0.34	0.34	0.34	67.02	0.02	0.07	7.47
Dibromomethane	9-Mar-10	0.5	0.43	0.38	0.44	0.41	0.38	0.35	0.37	0.39	78.76	0.03	0.10	4.99

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1A, GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2010

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
Dichlorodifluoromethane	13-Jan-10	0.5	0.35	0.32	0.31	0.29	0.36	0.24	0.27	0.31	61.02	0.04	0.13	3.82
cis-1,3-Dichloropropene	9-Mar-10	0.2	0.17	0.13	0.18	0.15	0.15	0.14	0.13	0.15	75.45	0.02	0.06	3.38
m-Dichlorobenzene	12-Feb-10	0.2	0.15	0.14	0.17	0.14	0.14	0.13	0.14	0.15	73.55	0.01	0.05	4.42
o-Dichlorobenzene	12-Feb-10	1	0.98	0.88	0.88	0.91	0.90	0.91	0.87	0.90	90.41	0.04	0.12	8.49
p-Dichlorobenzene	9-Mar-10	0.2	0.19	0.17	0.16	0.14	0.14	0.17	0.17	0.16	80.90	0.02	0.06	3.58
trans-1,2-Dichloroethylene	9-Mar-10	0.2	0.16	0.16	0.09	0.11	0.10	0.14	0.12	0.12	61.95	0.03	0.09	2.26
cis-1,2-Dichloroethylene	13-Jan-10	0.2	0.14	0.18	0.18	0.22	0.19	0.21	0.18	0.18	92.20	0.03	0.08	2.37
trans-1,3-Dichloropropene	26-Jan-10	0.2	0.18	0.19	0.18	0.21	0.19	0.18	0.22	0.19	97.20	0.02	0.05	3.67
1,1-Dichloropropanone	12-Feb-10	5	4.55	4.54	4.66	4.52	4.32	4.36	4.37	4.47	89.49	0.12	0.39	12.74
Trans-1,4-Dichloro-2-Butene	9-Mar-10	0.5	0.35	0.44	0.39	0.43	0.29	0.32	0.31	0.36	72.28	0.06	0.19	2.67
Di-Isopropyl ether	22-Jan-10	0.2	0.20	0.20	0.15	0.19	0.17	0.20	0.21	0.19	94.16	0.02	0.06	3.16
Ethyl Acetate	26-Jan-10	1	0.48	0.74	0.86	0.68	0.81	0.80	0.69	0.72	72.48	0.12	0.39	2.55
Ethylbenzene	12-Feb-10	1	0.91	0.85	0.84	0.84	0.83	0.82	0.82	0.84	84.37	0.03	0.10	10.10
Ethyl tert Butyl Ether	9-Mar-10	1	0.88	0.88	0.91	0.89	0.92	0.87	0.87	0.89	88.91	0.02	0.07	15.29
Ethyl Ether	9-Mar-10	0.5	0.29	0.37	0.40	0.43	0.38	0.32	0.29	0.35	70.78	0.05	0.17	2.98
Ethyl methacrylate	21-Jan-10	1	0.96	0.92	0.91	0.87	0.94	0.94	0.83	0.91	90.90	0.04	0.14	7.28
Freon 113	13-Jan-10	1	1.00	0.88	0.85	0.83	0.89	0.79	0.72	0.85	85.02	0.09	0.27	3.72
Hexachlorobutadiene	26-Jan-10	0.2	0.20	0.25	0.22	0.26	0.24	0.20	0.23	0.23	113.95	0.02	0.08	2.64
Hexane	9-Mar-10	0.5	0.45	0.34	0.44	0.40	0.32	0.37	0.33	0.38	75.92	0.05	0.16	3.09
Hexachloroethane	12-Feb-10	0.5	0.35	0.30	0.27	0.31	0.26	0.30	0.27	0.29	58.84	0.03	0.10	5.05
2-Hexanone	22-Jan-10	0.6	0.26	0.35	0.43	0.37	0.43	0.37	0.35	0.36	60.72	0.06	0.19	3.20
Iodomethane	26-Jan-10	0.2	0.20	0.23	0.17	0.21	0.20	0.22	0.19	0.20	101.10	0.02	0.07	3.01
Isopropylbenzene	13-Jan-10	1	1.08	1.01	0.99	1.00	1.00	0.97	0.93	1.00	99.66	0.05	0.15	6.79
p-Isopropyltoluene	26-Jan-10	0.5	0.53	0.54	0.53	0.54	0.52	0.52	0.49	0.52	104.46	0.02	0.06	8.65
Methylene chloride	9-Mar-10	0.2	0.16	0.14	0.18	0.14	0.09	0.12	0.14	0.14	68.70	0.03	0.09	2.18
Methyl Tert Butyl Ether	12-Feb-10	5	5.02	4.97	5.27	5.02	4.96	4.92	4.90	5.01	100.18	0.13	0.39	12.70
4-Methyl-2-pentanone	12-Feb-10	3	3.44	3.23	3.24	3.16	3.08	3.13	3.18	3.21	106.93	0.12	0.37	8.21
Methacrylonitrile	26-Jan-10	0.5	0.53	0.54	0.52	0.43	0.42	0.49	0.43	0.48	95.82	0.05	0.17	2.96
Methyl methacrylate	12-Feb-10	1	0.63	0.57	0.54	0.56	0.55	0.55	0.58	0.57	56.82	0.03	0.09	10.99
Methyl Acrylate	21-Jan-10	1	1.15	1.10	0.91	0.84	1.03	1.03	0.92	1.00	99.69	0.11	0.35	2.86
Methyl Acetate	11-Jan-10	1	0.58	0.41	0.47	0.41	0.43	0.45	0.43	0.45	45.39	0.06	0.19	5.22
Methylcyclohexane	22-Jan-10	0.2	0.20	0.19	0.18	0.17	0.17	0.17	0.16	0.18	88.60	0.01	0.05	4.40
Nitrobenzene	12-Feb-10	50	52.27	52.18	54.72	52.13	50.85	50.38	50.53	51.87	103.73	1.50	4.72	10.60
2-Nitropropane	9-Mar-10	1	1.05	1.05	0.93	1.01	0.90	1.30	0.93	1.02	102.30	0.13	0.42	2.36
Naphthalene	26-Jan-10	0.5	0.49	0.51	0.54	0.54	0.52	0.53	0.50	0.52	103.60	0.02	0.06	8.36
n-Propylbenzene	12-Feb-10	1	0.90	0.85	0.84	0.82	0.79	0.82	0.80	0.83	83.07	0.04	0.12	8.59
Pentachloroethane	12-Feb-10	0.5	0.36	0.34	0.34	0.28	0.32	0.28	0.34	0.32	64.88	0.03	0.10	4.97
Propionitrile	22-Jan-10	5	2.59	1.92	2.73	3.37	2.17	2.96	1.86	2.51	50.30	0.56	1.77	2.83
Styrene	9-Mar-10	0.2	0.16	0.16	0.15	0.16	0.12	0.12	0.14	0.15	73.20	0.02	0.05	3.90
tert-Amyl Methyl Ether	22-Jan-10	0.5	0.55	0.49	0.50	0.51	0.52	0.52	0.54	0.52	103.77	0.02	0.06	8.10

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1A, GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2010

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
1,1,1,2-Tetrachloroethane	9-Mar-10	0.5	0.43	0.39	0.41	0.43	0.43	0.37	0.41	0.41	81.90	0.02	0.07	7.16
Tetrahydrofuran	9-Mar-10	1	0.76	0.82	0.70	0.78	0.77	0.56	0.70	0.73	72.92	0.09	0.27	3.74
1,1,1-Trichloroethane	13-Jan-10	0.5	0.46	0.45	0.42	0.43	0.42	0.41	0.38	0.42	84.56	0.03	0.08	6.01
1,1,2,2-Tetrachloroethane	9-Mar-10	0.2	0.17	0.18	0.15	0.18	0.14	0.16	0.18	0.17	83.95	0.01	0.05	4.28
1,1,2-Trichloroethane	9-Mar-10	0.2	0.12	0.18	0.09	0.12	0.14	0.07	0.10	0.12	58.85	0.03	0.11	1.82
1,2,3-Trichlorobenzene	12-Feb-10	0.2	0.16	0.12	0.16	0.14	0.15	0.13	0.15	0.14	72.30	0.01	0.04	4.47
1,2,3-Trichloropropane	9-Mar-10	0.5	0.53	0.47	0.29	0.37	0.31	0.44	0.33	0.39	77.86	0.09	0.28	1.79
1,2,4-Trichlorobenzene	21-Jan-10	1	0.93	0.96	0.93	0.93	0.95	0.92	0.92	0.93	93.34	0.02	0.05	19.74
1,2,4-Trimethylbenzene	22-Jan-10	0.2	0.20	0.19	0.17	0.17	0.18	0.17	0.17	0.18	89.10	0.01	0.03	6.30
1,3,5-Trimethylbenzene	12-Feb-10	1	0.89	0.83	0.82	0.81	0.80	0.81	0.78	0.82	81.99	0.03	0.11	9.37
Tetrachloroethylene	9-Mar-10	0.2	0.09	0.13	0.08	0.11	0.12	0.13	0.13	0.11	56.30	0.02	0.07	2.97
Toluene	12-Feb-10	1	0.93	0.89	0.87	0.85	0.85	0.85	0.86	0.87	87.23	0.03	0.10	10.03
Trichloroethylene	9-Mar-10	0.5	0.37	0.38	0.41	0.32	0.40	0.37	0.33	0.37	73.62	0.03	0.11	4.74
Trichlorofluoromethane	9-Mar-10	1	0.85	0.85	0.80	0.80	0.87	0.75	0.82	0.82	81.97	0.04	0.12	8.23
Tertiary Butyl Alcohol	9-Mar-10	5	4.97	4.02	4.91	4.47	5.36	4.50	4.51	4.68	93.56	0.43	1.36	3.67
Vinyl chloride	26-Jan-10	0.2	0.22	0.18	0.21	0.21	0.26	0.24	0.21	0.22	108.38	0.03	0.08	2.50
m,p-Xylene	13-Jan-10	2	2.08	2.06	1.96	2.00	1.96	1.89	1.93	1.98	99.14	0.07	0.21	9.35
o-Xylene	13-Jan-10	1	1.04	1.00	0.99	1.01	1.02	0.97	0.94	1.00	99.61	0.03	0.11	9.19

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Raw Data: 1B51763.D

Method Blank Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-MB1	1B51763.D	1	01/03/11	MFH	n/a	n/a	V1B2368

5.1.1

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	1.5	ug/l	
78-93-3	2-Butanone	ND	5.0	1.8	ug/l	
71-43-2	Benzene	ND	0.50	0.061	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.053	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.038	ug/l	
75-25-2	Bromoform	ND	0.50	0.093	ug/l	
74-83-9	Bromomethane	ND	0.50	0.095	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.033	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.059	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.045	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.070	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.070	ug/l	
75-00-3	Chloroethane	ND	0.50	0.14	ug/l	
67-66-3	Chloroform	ND	0.50	0.058	ug/l	
74-87-3	Chloromethane	ND	0.50	0.15	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.065	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.089	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.094	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.098	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.13	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.18	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.37	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.075	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.072	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.046	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.12	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.067	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.10	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.13	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.059	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.045	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.12	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.056	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.089	ug/l	

Method Blank Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-MB1	1B51763.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	Result	RL	MDL	Units	Q
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.084	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.055	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.099	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.076	ug/l	
110-54-3	Hexane	ND	0.50	0.16	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.19	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.15	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.058	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.092	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.39	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.37	ug/l	
91-20-3	Naphthalene	ND	0.50	0.060	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.12	ug/l	
100-42-5	Styrene	ND	0.50	0.051	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.070	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.083	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.047	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.11	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.045	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.051	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.032	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.11	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.067	ug/l	
108-88-3	Toluene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.11	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.12	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.080	ug/l	
	m,p-Xylene	ND	1.0	0.21	ug/l	
95-47-6	o-Xylene	ND	0.50	0.11	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.11	ug/l	

CAS No.	Surrogate Recoveries		Limits
2199-69-1	1,2-Dichlorobenzene-d4	109%	78-114%

Method Blank Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-MB1	1B51763.D	1	01/03/11	MFH	n/a	n/a	V1B2368

5.4.1

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	102%	77-115%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

Blank Spike Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-BS	1B51764.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	20	18.5	93	70-130
78-93-3	2-Butanone	20	20.1	101	70-130
71-43-2	Benzene	5	5.0	100	70-130
108-86-1	Bromobenzene	5	5.6	112	70-130
74-97-5	Bromochloromethane	5	5.4	108	70-130
75-27-4	Bromodichloromethane	5	5.2	104	70-130
75-25-2	Bromoform	5	5.2	104	70-130
74-83-9	Bromomethane	2	2.0	100	70-130
104-51-8	n-Butylbenzene	5	5.5	110	70-130
135-98-8	sec-Butylbenzene	5	5.4	108	70-130
98-06-6	tert-Butylbenzene	5	5.4	108	70-130
75-15-0	Carbon disulfide	5	4.8	96	70-130
108-90-7	Chlorobenzene	5	5.5	110	70-130
75-00-3	Chloroethane	2	2.0	100	70-130
67-66-3	Chloroform	5	5.1	102	70-130
74-87-3	Chloromethane	2	1.9	95	70-130
95-49-8	o-Chlorotoluene	5	5.6	112	70-130
106-43-4	p-Chlorotoluene	5	5.1	102	70-130
56-23-5	Carbon tetrachloride	5	5.6	112	70-130
75-34-3	1,1-Dichloroethane	5	5.0	100	70-130
75-35-4	1,1-Dichloroethylene	5	4.5	90	70-130
563-58-6	1,1-Dichloropropene	5	5.0	100	70-130
96-12-8	1,2-Dibromo-3-chloropropane	5	5.1	102	70-130
106-93-4	1,2-Dibromoethane	5	5.4	108	70-130
107-06-2	1,2-Dichloroethane	5	5.5	110	70-130
78-87-5	1,2-Dichloropropane	5	5.1	102	70-130
142-28-9	1,3-Dichloropropane	5	5.5	110	70-130
594-20-7	2,2-Dichloropropane	5	5.2	104	70-130
124-48-1	Dibromochloromethane	5	5.4	108	70-130
74-95-3	Dibromomethane	5	5.5	110	70-130
75-71-8	Dichlorodifluoromethane	2	2.2	110	70-130
10061-01-5	cis-1,3-Dichloropropene	5	5.3	106	70-130
541-73-1	m-Dichlorobenzene	5	5.8	116	70-130
95-50-1	o-Dichlorobenzene	5	5.5	110	70-130
106-46-7	p-Dichlorobenzene	5	5.6	112	70-130
156-60-5	trans-1,2-Dichloroethylene	5	4.5	90	70-130

Blank Spike Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-BS	1B51764.D	1	01/03/11	MFH	n/a	n/a	V1B2368

5.2.1 5

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
156-59-2	cis-1,2-Dichloroethylene	5	5.2	104	70-130
10061-02-6	trans-1,3-Dichloropropene	5	5.4	108	70-130
100-41-4	Ethylbenzene	5	5.2	104	70-130
87-68-3	Hexachlorobutadiene	5	5.8	116	70-130
110-54-3	Hexane	5	5.2	104	70-130
591-78-6	2-Hexanone	20	19.0	95	70-130
98-82-8	Isopropylbenzene	5	5.3	106	70-130
99-87-6	p-Isopropyltoluene	5	5.6	112	70-130
75-09-2	Methylene chloride	5	4.4	88	70-130
1634-04-4	Methyl Tert Butyl Ether	10	9.7	97	70-130
108-10-1	4-Methyl-2-pentanone	20	19.1	96	70-130
91-20-3	Naphthalene	5	5.6	112	70-130
103-65-1	n-Propylbenzene	5	5.2	104	70-130
100-42-5	Styrene	5	4.9	98	70-130
630-20-6	1,1,1,2-Tetrachloroethane	5	5.5	110	70-130
71-55-6	1,1,1-Trichloroethane	5	5.2	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	5.2	104	70-130
79-00-5	1,1,2-Trichloroethane	5	5.3	106	70-130
87-61-6	1,2,3-Trichlorobenzene	5	6.0	120	70-130
96-18-4	1,2,3-Trichloropropane	5	5.7	114	70-130
120-82-1	1,2,4-Trichlorobenzene	5	5.8	116	70-130
95-63-6	1,2,4-Trimethylbenzene	5	5.3	106	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.3	106	70-130
127-18-4	Tetrachloroethylene	5	5.4	108	70-130
108-88-3	Toluene	5	5.3	106	70-130
79-01-6	Trichloroethylene	5	5.2	104	70-130
75-69-4	Trichlorofluoromethane	2	2.4	120	70-130
75-01-4	Vinyl chloride	2	2.0	100	70-130
	m,p-Xylene	10	10.9	109	70-130
95-47-6	o-Xylene	5	5.5	110	70-130
1330-20-7	Xylenes (total)	15	16.4	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	111%	78-114%

Blank Spike Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2368-BS	1B51764.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	101%	77-115%

Raw Data: 1B51774.D 1B51775.D

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA65236-1MS	1B51774.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1MSD	1B51775.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1	1B51766.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	JA65236-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		20	18.5	93	19.0	95	3	41-142/24
78-93-3	2-Butanone	ND		20	19.4	97	19.3	97	1	55-129/31
71-43-2	Benzene	ND		5	5.2	104	5.5	110	6	53-138/16
108-86-1	Bromobenzene	ND		5	6.1	122	6.2	124	2	54-138/17
74-97-5	Bromochloromethane	ND		5	5.6	112	5.8	116	4	55-140/13
75-27-4	Bromodichloromethane	ND		5	5.3	106	5.5	110	4	57-147/11
75-25-2	Bromoform	ND		5	5.1	102	5.0	100	2	47-137/13
74-83-9	Bromomethane	ND		2	1.8	90	2.0	100	11	40-162/27
104-51-8	n-Butylbenzene	ND		5	5.7	114	6.1	122	7	45-144/19
135-98-8	sec-Butylbenzene	ND		5	5.7	114	6.2	124	8	46-145/20
98-06-6	tert-Butylbenzene	ND		5	5.9	118	6.2	124	5	48-141/17
75-15-0	Carbon disulfide	ND		5	4.0	80	4.2	84	5	35-127/32
108-90-7	Chlorobenzene	ND		5	5.9	118	6.1	122	3	54-135/15
75-00-3	Chloroethane	ND		2	1.8	90	1.9	95	5	38-153/43
67-66-3	Chloroform	0.072	J	5	5.5	109	5.6	111	2	57-151/13
74-87-3	Chloromethane	ND		2	1.8	90	2.0	100	11	39-165/35
95-49-8	o-Chlorotoluene	ND		5	6.0	120	6.4	128	6	55-142/15
106-43-4	p-Chlorotoluene	ND		5	5.7	114	5.9	118	3	55-139/20
56-23-5	Carbon tetrachloride	ND		5	6.0	120	6.3	126	5	49-170/24
75-34-3	1,1-Dichloroethane	ND		5	5.2	104	5.4	108	4	55-149/13
75-35-4	1,1-Dichloroethylene	ND		5	4.7	94	5.0	100	6	42-142/20
563-58-6	1,1-Dichloropropene	ND		5	5.4	108	5.6	112	4	46-151/21
96-12-8	1,2-Dibromo-3-chloropropane	ND		5	5.4	108	5.3	106	2	48-141/27
106-93-4	1,2-Dibromoethane	ND		5	5.6	112	5.9	118	5	57-135/10
107-06-2	1,2-Dichloroethane	ND		5	5.5	110	5.6	112	2	59-166/15
78-87-5	1,2-Dichloropropane	ND		5	5.4	108	5.6	112	4	53-142/11
142-28-9	1,3-Dichloropropane	ND		5	5.6	112	5.7	114	2	58-143/13
594-20-7	2,2-Dichloropropane	ND		5	5.5	110	5.8	116	5	38-165/19
124-48-1	Dibromochloromethane	ND		5	5.4	108	5.5	110	2	55-138/15
74-95-3	Dibromomethane	ND		5	5.7	114	5.7	114	0	61-144/10
75-71-8	Dichlorodifluoromethane	ND		2	1.4	70	1.6	80	13	23-172/30
10061-01-5	cis-1,3-Dichloropropene	ND		5	5.3	106	5.4	108	2	51-136/11
541-73-1	m-Dichlorobenzene	ND		5	6.0	120	6.2	124	3	53-138/17
95-50-1	o-Dichlorobenzene	ND		5	6.0	120	6.3	126	5	54-140/11
106-46-7	p-Dichlorobenzene	ND		5	6.0	120	6.2	124	3	53-137/14
156-60-5	trans-1,2-Dichloroethylene	ND		5	5.2	104	5.4	108	4	47-148/22

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA65236-1MS	1B51774.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1MSD	1B51775.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1	1B51766.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Compound	JA65236-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
156-59-2	cis-1,2-Dichloroethylene	0.58		5	5.5	98	5.9	106	7	51-146/14
10061-02-6	trans-1,3-Dichloropropene	ND		5	5.2	104	5.4	108	4	54-142/10
100-41-4	Ethylbenzene	ND		5	5.7	114	6.0	120	5	51-138/18
87-68-3	Hexachlorobutadiene	ND		5	5.9	118	6.5	130	10	40-154/21
110-54-3	Hexane	ND		5	4.4	88	4.7	94	7	22-142/42
591-78-6	2-Hexanone	ND		20	19.1	96	18.8	94	2	53-128/29
98-82-8	Isopropylbenzene	ND		5	5.8	116	6.2	124	7	49-139/16
99-87-6	p-Isopropyltoluene	ND		5	5.7	114	6.2	124	8	45-141/17
75-09-2	Methylene chloride	ND		5	4.4	88	4.5	90	2	54-137/14
1634-04-4	Methyl Tert Butyl Ether	ND		5	4.8	96	4.9	98	2	53-143/10
108-10-1	4-Methyl-2-pentanone	ND		20	19.0	95	19.1	96	1	58-127/32
91-20-3	Naphthalene	ND		5	5.4	108	5.7	114	5	44-140/14
103-65-1	n-Propylbenzene	ND		5	5.7	114	6.1	122	7	50-142/20
100-42-5	Styrene	ND		5	4.9	98	5.1	102	4	23-130/20
630-20-6	1,1,1,2-Tetrachloroethane	ND		5	5.9	118	6.2	124	5	57-144/11
71-55-6	1,1,1-Trichloroethane	ND		5	5.7	114	6.1	122	7	52-164/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		5	5.4	108	5.5	110	2	58-138/10
79-00-5	1,1,2-Trichloroethane	ND		5	5.4	108	5.6	112	4	59-139/11
87-61-6	1,2,3-Trichlorobenzene	ND		5	6.1	122	6.3	126	3	47-141/17
96-18-4	1,2,3-Trichloropropane	ND		5	5.9	118	5.8	116	2	56-148/15
120-82-1	1,2,4-Trichlorobenzene	ND		5	6.0	120	6.2	124	3	46-137/17
95-63-6	1,2,4-Trimethylbenzene	ND		5	5.5	110	5.8	116	5	41-138/16
108-67-8	1,3,5-Trimethylbenzene	ND		5	5.7	114	5.9	118	3	45-138/16
127-18-4	Tetrachloroethylene	29.3		5	29.9	12* [a]	31.3	40* [a]	5	45-145/19
108-88-3	Toluene	ND		5	5.6	112	5.9	118	5	52-134/19
79-01-6	Trichloroethylene	0.90		5	6.4	110	6.7	116	5	54-143/15
75-69-4	Trichlorofluoromethane	ND		2	1.7	85	1.9	95	11	36-167/28
75-01-4	Vinyl chloride	ND		2	1.8	90	1.9	95	5	35-162/30
	m,p-Xylene	ND		10	11.8	118	12.3	123	4	49-135/18
95-47-6	o-Xylene	ND		5	6.0	120	6.1	122	2	49-134/19
1330-20-7	Xylenes (total)	ND		15	17.7	118	18.4	123	4	50-134/18

CAS No.	Surrogate Recoveries	MS	MSD	JA65236-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	112%	110%	110%	78-114%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA65236-1MS	1B51774.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1MSD	1B51775.D	1	01/03/11	MFH	n/a	n/a	V1B2368
JA65236-1	1B51766.D	1	01/03/11	MFH	n/a	n/a	V1B2368

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA65236-1, JA65236-2, JA65236-3, JA65236-4, JA65236-5, JA65236-6, JA65236-7, JA65236-8

CAS No.	Surrogate Recoveries	MS	MSD	JA65236-1	Limits
460-00-4	4-Bromofluorobenzene	102%	102%	101%	77-115%

(a) Outside control limits due to high level in sample relative to spike amount.

Instrument Performance Check (BFB)

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample:	V1B2336-BFB	Injection Date:	12/08/10
Lab File ID:	1B51061.D	Injection Time:	19:03
Instrument ID:	GCMS1B		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2082	18.8		Pass
75	30.0 - 80.0% of mass 95	5341	48.3		Pass
95	Base peak, 100% relative abundance	11064	100.0		Pass
96	5.0 - 9.0% of mass 95	755	6.82		Pass
173	Less than 2.0% of mass 174	41	0.37	(0.49) [a]	Pass
174	50.0 - 120.0% of mass 95	8438	76.3	--	Pass
175	5.0 - 9.0% of mass 174	647	5.85	(7.67) [a]	Pass
176	95.0 - 101.0% of mass 174	8119	73.4	(96.2) [a]	Pass
177	5.0 - 9.0% of mass 176	541	4.89	(6.66) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1B2336-IC2336	1B51062.D	12/08/10	19:35	00:32	Initial cal 0.5
V1B2336-IC2336	1B51063.D	12/08/10	20:07	01:04	Initial cal 1
V1B2336-IC2336	1B51064.D	12/08/10	20:39	01:36	Initial cal 2
V1B2336-IC2336	1B51065.D	12/08/10	21:11	02:08	Initial cal 5
V1B2336-ICC2336	1B51066.D	12/08/10	21:43	02:40	Initial cal 10
V1B2336-IC2336	1B51067.D	12/08/10	22:15	03:12	Initial cal 20
V1B2336-IC2336	1B51068.D	12/08/10	22:47	03:44	Initial cal 40
V1B2336-ICV2336	1B51070.D	12/08/10	23:51	04:48	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample:	V1B2368-BFB	Injection Date:	01/03/11
Lab File ID:	1B51761.D	Injection Time:	09:06
Instrument ID:	GCMS1B		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	1743	16.0		Pass
75	30.0 - 80.0% of mass 95	5277	48.4		Pass
95	Base peak, 100% relative abundance	10914	100.0		Pass
96	5.0 - 9.0% of mass 95	803	7.36		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	8224	75.4		Pass
175	5.0 - 9.0% of mass 174	730	6.69	(8.88) [a]	Pass
176	95.0 - 101.0% of mass 174	8215	75.3	(99.9) [a]	Pass
177	5.0 - 9.0% of mass 176	542	4.97	(6.60) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
V1B2368-CC2336	1B51762.D	01/03/11	09:38	00:32	Continuing cal 10
V1B2368-MB1	1B51763.D	01/03/11	10:12	01:06	Method Blank
V1B2368-BS	1B51764.D	01/03/11	10:56	01:50	Blank Spike
ZZZZZZ	1B51765.D	01/03/11	11:32	02:26	(unrelated sample)
JA65236-1	1B51766.D	01/03/11	12:04	02:58	RW
JA65236-2	1B51767.D	01/03/11	12:35	03:29	DUP
JA65236-3	1B51768.D	01/03/11	13:07	04:01	DIST
JA65236-4	1B51769.D	01/03/11	13:40	04:34	STEFF
JA65236-5	1B51770.D	01/03/11	14:12	05:06	MW-4
JA65236-6	1B51771.D	01/03/11	14:44	05:38	MW-11
JA65236-7	1B51772.D	01/03/11	15:16	06:10	FB
JA65236-8	1B51773.D	01/03/11	15:48	06:42	TB
JA65236-1MS	1B51774.D	01/03/11	16:20	07:14	Matrix Spike
JA65236-1MSD	1B51775.D	01/03/11	16:52	07:46	Matrix Spike Duplicate
ZZZZZZ	1B51776.D	01/03/11	17:24	08:18	(unrelated sample)
ZZZZZZ	1B51780.D	01/03/11	19:34	10:28	(unrelated sample)
ZZZZZZ	1B51781.D	01/03/11	20:06	11:00	(unrelated sample)
ZZZZZZ	1B51782.D	01/03/11	20:38	11:32	(unrelated sample)

Volatile Internal Standard/Surrogate Area Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Check Std:	V1B2368-CC2336	Injection Date:	01/03/11
Lab File ID:	1B51762.D	Injection Time:	09:38
Instrument ID:	GCMS1B	Method:	EPA 524.2 REV 4.1

	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
Initial Cal [a]	23630	7.85	62053	11.28	22164	17.71	22182	16.03
Previous Check [b]	21917	7.83	58822	11.27	23316	17.70	21798	16.01
Check Std [c]	23322	7.85	59564	11.27	21703	17.70	22270	16.02
Upper Limit [d]	46644	8.35	119128	11.77	43406	18.20	44540	16.52
Lower Limit [e]	11661	7.35	29782	10.77	10852	17.20	11135	15.52

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
V1B2368-MB1	22140	7.83	58475	11.27	23110	17.70	21405	16.02
V1B2368-BS	22636	7.82	59542	11.27	23762	17.70	21508	16.02
ZZZZZZ	23574	7.84	59211	11.27	23368	17.70	21051	16.02
JA65236-1	22379	7.85	59171	11.27	23574	17.70	21279	16.02
JA65236-2	21935	7.84	60981	11.27	24111	17.70	22014	16.02
JA65236-3	23482	7.85	60005	11.28	24256	17.70	21824	16.02
JA65236-4	23758	7.85	66020	11.28	25982	17.71	24859	16.02
JA65236-5	20069	7.85	57382	11.28	23148	17.70	20626	16.02
JA65236-6	21168	7.85	57649	11.27	23072	17.70	21222	16.02
JA65236-7	22540	7.86	59572	11.28	23460	17.70	22045	16.02
JA65236-8	19814	7.84	58795	11.28	22770	17.70	22235	16.02
JA65236-1MS	21042	7.85	58770	11.27	23840	17.70	21442	16.02
JA65236-1MSD	21340	7.84	58595	11.27	23265	17.70	21256	16.02
ZZZZZZ	21655	7.86	59164	11.28	23970	17.70	22182	16.02
ZZZZZZ	19824	7.84	59176	11.27	23149	17.70	21446	16.02
ZZZZZZ	19770	7.84	58099	11.27	22790	17.70	21455	16.02
ZZZZZZ	19662	7.85	58337	11.27	23007	17.70	21295	16.02

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Fluorobenzene
Surr 3 = 1,2-Dichlorobenzene-d4
Surr 4 = 4-Bromofluorobenzene

(a) Initial Cal is: V1B2336-ICC2336 1B51066.D 12/08/10 21:43
(b) Previous Check is: V1B2366-CC2336 1B51716.D 12/30/10 10:47
(c) Check Std Limit = -30% of previous check area; -50% of initial cal area.
(d) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(e) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Method: EPA 524.2 REV 4.1 Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
JA65236-1	1B51766.D	110.0	101.0
JA65236-2	1B51767.D	109.0	101.0
JA65236-3	1B51768.D	112.0	102.0
JA65236-4	1B51769.D	109.0	105.0
JA65236-5	1B51770.D	112.0	101.0
JA65236-6	1B51771.D	111.0	103.0
JA65236-7	1B51772.D	109.0	104.0
JA65236-8	1B51773.D	107.0	106.0
JA65236-1MS	1B51774.D	112.0	102.0
JA65236-1MSD	1B51775.D	110.0	102.0
V1B2368-BS	1B51764.D	111.0	101.0
V1B2368-MB1	1B51763.D	109.0	102.0

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichlorobenzene-d4	78-114%
S2 = 4-Bromofluorobenzene	77-115%

Initial Calibration Summary

Job Number: JA65236 **Sample:** V1B2336-ICC2336
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B51066.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Response Factor Report MS1B

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Calibration Files
5 =1b51065.D 10 =1b51066.D 1 =1b51063.D 20 =1b51067.D
40 =1b51068.D 2 =1b51064.D 0.5 =1b51062.D =

Compound	5	10	1	20	40	2	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9	----------ISTD----------								
2) TERTIARY BUT	1.226	1.201	1.157	1.236	1.202	1.191	1.342	1.222	4.81
3) 1,4-Dioxane	0.082	0.091	0.077	0.095	0.091	0.079		0.086	8.83
4) I FLUOROBENZENE	----------ISTD----------								
5) 4-BROMOFLUOR	0.357	0.357	0.356	0.357	0.357	0.360	0.356	0.357	0.43
6) 1,2-DICHLORO	0.364	0.357	0.359	0.361	0.361	0.363	0.363	0.361	0.70
7) DICHLORODIFL	0.448	0.398	0.407	0.305	0.352	0.322		0.372	14.76
8) CHLOROMETHAN	0.510	0.480	0.523	0.414	0.471	0.499	0.505	0.486	7.48
9) VINYL CHLORI	0.436	0.408	0.390	0.344	0.397	0.374	0.321	0.381	10.20
10) BROMOMETHANE	0.263	0.249	0.262	0.214	0.246	0.255	0.246	0.248	6.66
11) CHLOROETHANE	0.250	0.234	0.241	0.200	0.229	0.231	0.209	0.228	7.67
12) TRICHLOROFLU	0.414	0.376	0.349	0.291	0.344	0.306		0.347	12.98
13) ETHYL ETHER	0.210	0.216	0.219	0.200	0.193	0.224	0.191	0.208	6.28
14) ACROLEIN	0.081	0.080	0.086	0.073	0.080	0.089		0.081	6.83
15) 1,1-DICHLORO	0.255	0.252	0.243	0.226	0.223	0.245	0.257	0.243	5.72
16) FREON 113	0.179	0.158	0.116	0.136	0.143	0.139		0.145	14.79
17) ACETONE	0.030	0.033	0.026	0.033	0.031	0.030		0.031	8.34
18) IODOMETHANE	0.405	0.408	0.372	0.384	0.376	0.392	0.372	0.387	3.84
19) CARBON DISUL	0.969	0.976	0.854	0.884	0.880	0.911	0.822	0.899	6.35
20) METHYL ACETA	0.057	0.059	0.027	0.064	0.063	0.050		0.053	26.32
----- Linear regression ----- Coefficient = 0.9997									
Response Ratio = -0.00633 + 0.06392 *A									
21) ALLYL CHLORI	0.174	0.173	0.160	0.154	0.151	0.166	0.142	0.160	7.47
22) METHYLENE CH	0.353	0.360	0.353	0.333	0.328	0.347	0.382	0.351	5.07
23) ACRYLONITRIL	0.149	0.152	0.138	0.153	0.144	0.150	0.129	0.145	5.85
24) METHYL TERT	0.961	0.980	0.951	0.948	0.925	0.962	0.981	0.958	2.04
25) trans-1,2-DI	0.415	0.426	0.366	0.385	0.373	0.385	0.373	0.389	5.91
26) HEXANE	0.351	0.314	0.275	0.266	0.266	0.287	0.187	0.278	18.22
27) 1,1-DICHLORO	0.521	0.527	0.479	0.484	0.468	0.497	0.449	0.489	5.70
28) DI-ISOPROPYL	1.041	0.991	1.055	0.965	0.951	0.968	1.058	1.004	4.60
29) ETHYL TERT-B	1.047	0.996	0.967	1.000	0.987	0.965	1.014	0.996	2.86
30) 2-BUTANONE	0.038	0.042	0.030	0.043	0.040	0.037		0.038	11.64
31) 2,2-DICHLORO	0.405	0.397	0.387	0.356	0.341	0.391	0.413	0.384	6.89
32) cis-1,2-DICH	0.310	0.316	0.346	0.291	0.280	0.310	0.367	0.317	9.56
33) PROPIONITRIL	0.057	0.060	0.058	0.062	0.058	0.059	0.054	0.058	3.90
34) METHYLACRYLA	0.304	0.320	0.249	0.330	0.319	0.284		0.301	9.96
35) METHACRYLONI	0.205	0.216	0.176	0.220	0.211	0.197	0.226	0.207	8.16
36) BROMOCHLOROM	0.142	0.149	0.137	0.141	0.136	0.133	0.125	0.138	5.57
37) CHLOROFORM	0.484	0.486	0.481	0.459	0.441	0.460	0.514	0.475	5.01
38) TETRAHYDROFU	0.161	0.134	0.158	0.144	0.130	0.186		0.152	13.60
39) 1,1,1-TRICHL	0.398	0.401	0.345	0.362	0.353	0.376	0.335	0.367	6.97
40) CYCLOHEXANE	0.446	0.432	0.383	0.375	0.372	0.399	0.319	0.389	10.80
41) 1-CHLOROBUTA	1.122	1.117	0.954	0.991	0.964	1.055	0.887	1.013	8.70
42) 1,1-DICHLORO	0.380	0.387	0.322	0.351	0.338	0.356	0.304	0.349	8.57

Initial Calibration Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2336-ICC2336
Lab FileID: 1B51066.D

43)	CARBON TETRA	0.325	0.332	0.278	0.299	0.292	0.304	0.258	0.298	8.55
44)	1,2-DICHLORO	0.379	0.390	0.346	0.378	0.365	0.362	0.325	0.364	6.08
45)	BENZENE	1.137	1.168	1.044	1.078	1.046	1.098	1.068	1.091	4.28
46)	TERT AMYL ME	1.034	0.942	0.931	0.946	0.937	0.948	1.141	0.983	7.95
47)	TRICHLOROETH	0.273	0.279	0.240	0.259	0.251	0.258	0.242	0.257	5.73
48)	METHYLCYCLOH	0.487	0.434	0.380	0.381	0.392	0.401	0.273	0.393	16.53
49)	METHYL METHA	0.349	0.353	0.308	0.343	0.335	0.338	0.302	0.333	6.01
50)	1,2-DICHLORO	0.306	0.320	0.279	0.303	0.295	0.303	0.286	0.299	4.60
51)	DIBROMOMETHA	0.180	0.187	0.162	0.181	0.176	0.171	0.166	0.175	4.97
52)	BROMODICHLOR	0.363	0.375	0.349	0.359	0.354	0.349	0.357	0.358	2.54
53)	CHLOROACETON	0.020	0.022	0.019	0.022	0.021	0.022	0.018	0.021	8.17
54)	2-NITROPROPA	0.082	0.088	0.099	0.090	0.085	0.096		0.090	7.40
55)	2-CHLOROETHY	0.234	0.230	0.213	0.236	0.228	0.224	0.218	0.226	3.75
56)	cis-1,3-DICH	0.479	0.500	0.450	0.475	0.463	0.458	0.456	0.469	3.66
57)	4-METHYL-2-P	0.143	0.152	0.141	0.151	0.140	0.153	0.159	0.149	4.64
58)	1,1-DICHLORO	0.101	0.119	0.095	0.128	0.124	0.108		0.113	11.77
59)	TOLUENE	0.666	0.698	0.585	0.642	0.626	0.636	0.641	0.642	5.44
60)	trans-1,3-DI	0.451	0.468	0.431	0.449	0.442	0.438	0.433	0.444	2.87
61)	ETHYL METHAC	0.426	0.458	0.421	0.442	0.428	0.434	0.454	0.438	3.20
62)	1,1,2-TRICHL	0.231	0.241	0.215	0.230	0.224	0.234	0.241	0.231	3.99
63)	1,3-DICHLORO	0.462	0.484	0.444	0.464	0.453	0.457	0.462	0.461	2.69
64)	2-HEXANONE	0.135	0.145	0.139	0.146	0.136	0.151	0.151	0.143	4.63
65)	TETRACHLOROE	0.272	0.279	0.234	0.255	0.247	0.258	0.231	0.254	7.15
66)	DIBROMOCHLOR	0.272	0.289	0.266	0.277	0.275	0.271	0.259	0.273	3.44
67)	1,2-DIBROMOE	0.265	0.281	0.254	0.275	0.269	0.260	0.247	0.264	4.49
68)	CHLOROBENZEN	0.721	0.755	0.684	0.704	0.694	0.704	0.716	0.711	3.25
69)	1,1,1,2-TETR	0.272	0.274	0.256	0.259	0.257	0.261	0.258	0.262	2.76
70)	ETHYLBENZENE	1.317	1.353	1.187	1.258	1.223	1.255	1.234	1.261	4.49
71)	m,p-XYLENE	0.500	0.511	0.457	0.476	0.464	0.479	0.467	0.479	4.10
72)	o-XYLENE	0.504	0.515	0.465	0.479	0.473	0.480	0.450	0.481	4.64
73)	STYRENE	0.838	0.880	0.777	0.822	0.816	0.820	0.798	0.821	3.92
74)	BROMOFORM	0.199	0.214	0.198	0.208	0.205	0.207	0.216	0.207	3.31
75)	ISOPROPYLBEN	1.325	1.360	1.170	1.254	1.229	1.273	1.203	1.259	5.32
76)	BROMOBENZENE	0.310	0.316	0.294	0.304	0.296	0.306	0.297	0.303	2.69
77)	1,1,2,2-TETR	0.417	0.443	0.436	0.428	0.413	0.466	0.453	0.436	4.43
78)	TRANS-1,4-DI	0.111	0.117	0.109	0.116	0.111	0.121	0.112	0.114	3.76
79)	1,2,3-TRICHL	0.117	0.122	0.115	0.120	0.114	0.131	0.117	0.119	4.75
80)	n-PROPYLBENZ	1.596	1.630	1.471	1.516	1.481	1.552	1.485	1.533	4.02
81)	O-CHLOROTOLU	0.304	0.310	0.282	0.290	0.284	0.303	0.312	0.298	4.18
82)	1,3,5-TRIMET	1.124	1.158	1.030	1.075	1.072	1.100	1.028	1.084	4.38
83)	P-CHLOROTOLU	0.997	1.015	0.962	0.947	0.923	0.990	1.005	0.977	3.45
84)	tert-BUTYLBE	0.940	0.975	0.851	0.920	0.910	0.924	0.884	0.915	4.35
85)	1,2,4-TRIMET	1.154	1.189	1.068	1.111	1.096	1.150	1.132	1.129	3.59
86)	PENTACHLOROE	0.187	0.199	0.176	0.191	0.195	0.198	0.188	0.191	4.11
87)	sec-BUTYLBEN	1.490	1.526	1.302	1.406	1.388	1.433	1.342	1.413	5.56
88)	p-ISOPROPYLT	1.194	1.231	1.074	1.138	1.136	1.171	1.090	1.148	4.86
89)	M-DICHLOROBE	0.621	0.634	0.603	0.594	0.585	0.614	0.608	0.608	2.69
90)	P-DICHLOROBE	0.638	0.666	0.604	0.617	0.608	0.656	0.642	0.633	3.79
91)	n-BUTYLBENZE	0.662	0.682	0.590	0.629	0.620	0.640	0.568	0.627	6.26
92)	O-DICHLOROBE	0.619	0.648	0.612	0.606	0.596	0.644	0.642	0.624	3.30
93)	HEXACHLOROET	0.173	0.185	0.149	0.174	0.177	0.168	0.156	0.169	7.33
94)	1,2-DIBROMO-	0.074	0.079	0.076	0.077	0.075	0.079	0.073	0.076	3.26
95)	NITROBENZENE	0.037	0.040	0.035	0.043	0.044	0.041	0.042	0.040	7.86
96)	1,2,4-TRICHL	0.471	0.504	0.447	0.478	0.479	0.497	0.464	0.477	4.02
97)	HEXACHLOROBU	0.235	0.239	0.206	0.220	0.220	0.217	0.218	0.222	4.95
98)	NAPHTHALENE	1.388	1.500	1.281	1.467	1.448	1.547	1.346	1.425	6.49
99)	1,2,3-TRICHL	0.455	0.491	0.438	0.471	0.470	0.485	0.441	0.465	4.41

(#) = Out of Range ### Number of calibration levels exceeded format ###

5.7.1 5

Initial Calibration Summary

Job Number:	JA65236	Sample:	V1B2336-ICC2336
Account:	EPMNYLS Environmental Planning and Management	Lab FileID:	1B51066.D
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

M1B2336.M Thu Dec 09 09:51:25 2010 MS1B

Initial Calibration Verification

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2336-ICV2336
Lab FileID: 1B51070.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1b51070.D
Acq On : 8 Dec 2010 11:51 pm
Sample : icv2336-10
Misc : MS5663,V1B2336,W,,,,1
MS Integration Params: rteint.p

Vial: 10
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Thu Dec 09 09:30:59 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	108	0.00	7.86
2	M	TERTIARY BUTYL ALCOHOL	1.222	1.376	-12.6	123	0.00	7.99
3	m	1,4-Dioxane	0.086	0.106	-23.3	125	0.00	12.12
4	I	FLUOROBENZENE	1.000	1.000	0.0	104	0.00	11.28
5	S	4-BROMOFLUOROBENZENE (S)	0.357	0.350	2.0	101	0.00	16.02
6	S	1,2-DICHLOROBENZENE-d4 (S	0.361	0.357	1.1	104	0.00	17.71
7	M	DICHLORODIFLUOROMETHANE	0.372	0.371	0.3	96	0.00	4.03
8	M	CHLOROMETHANE	0.486	0.452	7.0	98	-0.02	4.37
9	M	VINYL CHLORIDE	0.381	0.405	-6.3	103	-0.02	4.65
10	M	BROMOMETHANE	0.248	0.245	1.2	102	0.00	5.39
11	M	CHLOROETHANE	0.228	0.232	-1.8	103	0.00	5.60
12	M	TRICHLOROFLUOROMETHANE	0.347	0.385	-11.0	106	-0.01	6.17
13	M	ETHYL ETHER	0.208	0.190	8.7	91	0.00	6.63
14	M	ACROLEIN	0.081	0.083	-2.5	107	0.00	6.84
15	M	1,1-DICHLOROETHYLENE	0.243	0.237	2.5	97	0.00	7.11
16	M	FREON 113	0.145	0.167	-15.2	110	0.00	7.11
17	M	ACETONE	0.031	0.032	-3.2	99	0.00	7.11
18	M	IODOMETHANE	0.387	0.382	1.3	97	-0.01	7.39
19	M	CARBON DISULFIDE	0.899	0.880	2.1	93	-0.01	7.57
			True	Calc.	% Drift			
20	M	METHYL ACETATE	10.000	9.957	0.4	106	0.00	7.68
			AvgRF	CCRF	% Dev			
21	M	ALLYL CHLORIDE	0.160	0.159	0.6	95	0.00	7.69
22	M	METHYLENE CHLORIDE	0.351	0.340	3.1	98	0.00	7.89
23	M	ACRYLONITRILE	0.145	0.147	-1.4	100	0.00	8.21
24	M	METHYL TERT BUTYL ETHER	0.958	0.959	-0.1	102	-0.01	8.32
25	M	trans-1,2-DICHLOROETHYLEN	0.389	0.356	8.5	86	0.00	8.36
26	M	HEXANE	0.278	0.269	3.2	89	0.00	8.77
27	M	1,1-DICHLOROETHANE	0.489	0.503	-2.9	99	0.00	8.97
28	M	DI-ISOPROPYL ETHER	1.004	1.064	-6.0	111	0.00	9.02
29	M	ETHYL TERT-BUTYL ETHER	0.996	1.032	-3.6	107	0.00	9.54
30	M	2-BUTANONE	0.038	0.040	-5.3	99	0.01	9.73
31	M	2,2-DICHLOROPROPANE	0.384	0.364	5.2	95	0.00	9.81
32	M	cis-1,2-DICHLOROETHYLENE	0.317	0.335	-5.7	110	0.00	9.80
33	M	PROPIONITRILE	0.058	0.058	0.0	100	0.00	9.79
34	M	METHYLACRYLATE	0.301	0.303	-0.7	98	0.01	9.88
35	M	METHACRYLONITRILE	0.207	0.208	-0.5	100	0.00	10.02
36	M	BROMOCHLOROMETHANE	0.138	0.139	-0.7	97	0.00	10.13
37	M	CHLOROFORM	0.475	0.475	0.0	101	0.00	10.19

5.7.2 5

Initial Calibration Verification

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2336-ICV2336
Lab FileID: 1B51070.D

38	M	TETRAHYDROFURAN	0.152	0.145	4.6	112	0.00	10.20
39	M	1,1,1-TRICHLOROETHANE	0.367	0.378	-3.0	98	0.00	10.50
40	M	CYCLOHEXANE	0.389	0.389	0.0	93	0.00	10.62
41	M	1-CHLOROBUTANE	1.013	1.043	-3.0	97	0.00	10.60
42	M	1,1-DICHLOROPROPENE	0.349	0.367	-5.2	98	0.00	10.70
43	M	CARBON TETRACHLORIDE	0.298	0.313	-5.0	98	0.00	10.74
44	M	1,2-DICHLOROETHANE	0.364	0.372	-2.2	99	0.00	10.94
45	M	BENZENE	1.091	1.105	-1.3	98	0.00	10.97
46	M	TERT AMYL METHYL ETHER	0.983	1.012	-3.0	111	0.00	11.04
47	M	TRICHLOROETHYLENE	0.257	0.272	-5.8	101	0.00	11.75
48	M	METHYLCYCLOHEXANE	0.393	0.439	-11.7	105	0.00	12.02
49	M	METHYL METHACRYLATE	0.333	0.332	0.3	97	0.00	12.02
50	M	1,2-DICHLOROPROPANE	0.299	0.309	-3.3	100	0.00	11.99
51	M	DIBROMOMETHANE	0.175	0.180	-2.9	100	0.00	12.16
52	M	BROMODICHLOROMETHANE	0.358	0.368	-2.8	102	0.00	12.30
53	M	CHLOROACETONITRILE	0.021	0.022	-4.8	105	0.00	12.44
54	M	2-NITROPROPANE	0.090	0.093	-3.3	109	0.00	12.48
55	M	2-CHLOROETHYL VINYL ETHER	0.226	0.192	15.0	86	0.00	12.56
56	M	cis-1,3-DICHLOROPROPENE	0.469	0.472	-0.6	98	0.00	12.80
57	M	4-METHYL-2-PENTANONE	0.149	0.149	0.0	101	0.00	12.89
58	M	1,1-DICHLOROPROPANONE	0.113	0.113	0.0	98	0.00	12.99
59	M	TOLUENE	0.642	0.660	-2.8	98	0.00	13.22
60	M	trans-1,3-DICHLOROPROPENE	0.444	0.450	-1.4	100	0.00	13.40
61	M	ETHYL METHACRYLATE	0.438	0.449	-2.5	102	0.00	13.42
62	M	1,1,2-TRICHLOROETHANE	0.231	0.230	0.4	99	0.00	13.62
63	M	1,3-DICHLOROPROPANE	0.461	0.463	-0.4	99	0.00	13.82
64	M	2-HEXANONE	0.143	0.142	0.7	102	0.00	13.81
65	M	TETRACHLOROETHYLENE	0.254	0.268	-5.5	100	0.00	13.88
66	M	DIBROMOCHLOROMETHANE	0.273	0.271	0.7	97	0.00	14.12
67	M	1,2-DIBROMOETHANE	0.264	0.272	-3.0	100	0.00	14.28
68	M	CHLOROBENZENE	0.711	0.725	-2.0	99	0.00	14.81
69	M	1,1,1,2-TETRACHLOROETHANE	0.262	0.263	-0.4	100	0.00	14.87
70	M	ETHYLBENZENE	1.261	1.278	-1.3	98	0.00	14.88
71	M	m,p-XYLENE	0.479	0.490	-2.3	99	0.00	14.99
72	M	o-XYLENE	0.481	0.508	-5.6	102	0.00	15.45
73	M	STYRENE	0.821	0.833	-1.5	98	0.00	15.45
74	M	BROMOFORM	0.207	0.201	2.9	97	0.00	15.72
75	M	ISOPROPYLBENZENE	1.259	1.323	-5.1	101	0.00	15.82
76	M	BROMOBENZENE	0.303	0.307	-1.3	101	0.00	16.24
77	M	1,1,2,2-TETRACHLOROETHANE	0.436	0.415	4.8	97	0.00	16.10
78	M	TRANS-1,4-DICHLORO-2-BUTE	0.114	0.121	-6.1	107	0.00	16.15
79	M	1,2,3-TRICHLOROPROPANE	0.119	0.117	1.7	99	0.00	16.18
80	M	n-PROPYLBENZENE	1.533	1.533	0.0	97	0.00	16.26
81	M	O-CHLOROTOLUENE	0.298	0.299	-0.3	100	0.00	16.42
82	M	1,3,5-TRIMETHYLBENZENE	1.084	1.121	-3.4	100	0.00	16.42
83	M	P-CHLOROTOLUENE	0.977	0.950	2.8	97	0.00	16.52
84	M	tert-BUTYLBENZENE	0.915	0.928	-1.4	99	0.00	16.80
85	M	1,2,4-TRIMETHYLBENZENE	1.129	1.141	-1.1	99	0.00	16.84
86	M	PENTACHLOROETHANE	0.191	0.201	-5.2	105	0.00	16.87
87	M	sec-BUTYLBENZENE	1.413	1.464	-3.6	99	0.00	17.03
88	M	p-ISOPROPYLTOLUENE	1.148	1.209	-5.3	102	0.00	17.15
89	M	M-DICHLOROBENZENE	0.608	0.620	-2.0	101	0.00	17.23
90	M	P-DICHLOROBENZENE	0.633	0.626	1.1	97	0.00	17.31
91	M	n-BUTYLBENZENE	0.627	0.664	-5.9	101	0.00	17.59
92	M	O-DICHLOROBENZENE	0.624	0.613	1.8	98	0.00	17.73
93	M	HEXACHLOROETHANE	0.169	0.178	-5.3	100	0.00	18.04
94	M	1,2-DIBROMO-3-CHLOROPROPA	0.076	0.075	1.3	98	0.00	18.53
95	M	NITROBENZENE	0.040	0.040	0.0	104	0.00	18.74
96	M	1,2,4-TRICHLOROBENZENE	0.477	0.470	1.5	97	0.00	19.42
97	M	HEXACHLOROBUTADIENE	0.222	0.220	0.9	95	0.00	19.56

Initial Calibration Verification

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2336-ICV2336
Lab FileID: 1B51070.D

98	M	NAPHTHALENE	1.425	1.411	1.0	97	0.00	19.71
99	M	1,2,3-TRICHLOROBENZENE	0.465	0.464	0.2	98	0.00	19.98

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1b51066.D M1B2336.M Thu Dec 09 09:48:50 2010 MS1B

5.7.2

Continuing Calibration Summary

Job Number: JA65236 **Sample:** V1B2368-CC2336
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B51762.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1b51762.D Vial: 2
Acq On : 3 Jan 2011 9:38 am Operator: mohui
Sample : cc2336-10 Inst : MS1B
Misc : MS6764,V1B2368,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Thu Dec 09 09:30:59 2010
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	99	-0.01	7.85
2	M	TERTIARY BUTYL ALCOHOL	1.222	1.212	0.8	100	0.00	7.98
3	m	1,4-Dioxane	0.086	0.105	-22.1	114	0.00	12.11
4	I	FLUOROBENZENE	1.000	1.000	0.0	96	-0.01	11.27
5	S	4-BROMOFLUOROBENZENE (S)	0.357	0.374	-4.8	100	0.00	16.02
6	S	1,2-DICHLOROBENZENE-d4 (S	0.361	0.364	-0.8	98	-0.01	17.70
7	M	DICHLORODIFLUOROMETHANE	0.372	0.357	4.0	86	0.00	4.02
8	M	CHLOROMETHANE	0.486	0.472	2.9	94	-0.02	4.37
9	M	VINYL CHLORIDE	0.381	0.389	-2.1	92	-0.02	4.65
10	M	BROMOMETHANE	0.248	0.248	0.0	96	-0.01	5.38
11	M	CHLOROETHANE	0.228	0.238	-4.4	98	0.00	5.60
12	M	TRICHLOROFLUOROMETHANE	0.347	0.383	-10.4	98	-0.01	6.17
13	M	ETHYL ETHER	0.208	0.173	16.8	77	-0.01	6.63
14	M	ACROLEIN	0.081	0.088	-8.6	106	-0.01	6.84
15	M	1,1-DICHLOROETHYLENE	0.243	0.214	11.9	82	-0.01	7.10
16	M	FREON 113	0.145	0.161	-11.0	98	0.00	7.11
17	M	ACETONE	0.031	0.032	-3.2	95	0.00	7.10
18	M	IODOMETHANE	0.387	0.379	2.1	89	-0.02	7.39
19	M	CARBON DISULFIDE	0.899	0.828	7.9	81	-0.02	7.56
			True	Calc.	% Drift			
20	M	METHYL ACETATE	10.000	11.472	-14.7	114	0.00	7.67
			AvgRF	CCRF	% Dev			
21	M	ALLYL CHLORIDE	0.160	0.150	6.3	83	-0.01	7.68
22	M	METHYLENE CHLORIDE	0.351	0.305	13.1	81	-0.01	7.89
23	M	ACRYLONITRILE	0.145	0.149	-2.8	95	0.00	8.20
24	M	METHYL TERT BUTYL ETHER	0.958	0.947	1.1	93	-0.02	8.32
25	M	trans-1,2-DICHLOROETHYLEN	0.389	0.362	6.9	82	-0.01	8.35
26	M	HEXANE	0.278	0.280	-0.7	86	-0.01	8.76
27	M	1,1-DICHLOROETHANE	0.489	0.486	0.6	89	-0.01	8.97
28	M	DI-ISOPROPYL ETHER	1.004	0.932	7.2	90	-0.01	9.01
29	M	ETHYL TERT-BUTYL ETHER	0.996	0.986	1.0	95	-0.01	9.53
30	M	2-BUTANONE	0.038	0.042	-10.5	98	0.00	9.72
31	M	2,2-DICHLOROPROPANE	0.384	0.401	-4.4	97	-0.01	9.81
32	M	cis-1,2-DICHLOROETHYLENE	0.317	0.311	1.9	94	-0.01	9.79
33	M	PROPIONITRILE	0.058	0.063	-8.6	101	0.00	9.77
34	M	METHYLACRYLATE	0.301	0.309	-2.7	93	0.00	9.87
35	M	METHACRYLONITRILE	0.207	0.222	-7.2	98	0.00	10.01
36	M	BROMOCHLOROMETHANE	0.138	0.155	-12.3	99	-0.01	10.12
37	M	CHLOROFORM	0.475	0.493	-3.8	97	-0.01	10.18

Continuing Calibration Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2368-CC2336
Lab FileID: 1B51762.D

38	M	TETRAHYDROFURAN	0.152	0.147	3.3	105	0.00	10.20
39	M	1,1,1-TRICHLOROETHANE	0.367	0.381	-3.8	91	0.00	10.50
40	M	CYCLOHEXANE	0.389	0.343	11.8	76	-0.01	10.61
41	M	1-CHLOROBUTANE	1.013	0.910	10.2	78	-0.02	10.59
42	M	1,1-DICHLOROPROPENE	0.349	0.343	1.7	85	0.00	10.70
43	M	CARBON TETRACHLORIDE	0.298	0.324	-8.7	94	-0.01	10.73
44	M	1,2-DICHLOROETHANE	0.364	0.411	-12.9	101	-0.01	10.94
45	M	BENZENE	1.091	1.078	1.2	89	-0.01	10.96
46	M	TERT AMYL METHYL ETHER	0.983	0.980	0.3	100	-0.01	11.03
47	M	TRICHLOROETHYLENE	0.257	0.270	-5.1	93	-0.01	11.74
48	M	METHYLCYCLOHEXANE	0.393	0.403	-2.5	89	-0.01	12.01
49	M	METHYL METHACRYLATE	0.333	0.333	0.0	90	-0.01	12.01
50	M	1,2-DICHLOROPROPANE	0.299	0.312	-4.3	94	-0.01	11.98
51	M	DIBROMOMETHANE	0.175	0.200	-14.3	103	0.00	12.15
52	M	BROMODICHLOROMETHANE	0.358	0.385	-7.5	99	-0.01	12.29
53	M	CHLOROACETONITRILE	0.021	0.025	-19.0	111	0.00	12.43
54	M	2-NITROPROPANE	0.090	0.099	-10.0	107	0.00	12.47
55	M	2-CHLOROETHYL VINYL ETHER	0.226	0.230	-1.8	96	-0.01	12.55
56	M	cis-1,3-DICHLOROPROPENE	0.469	0.515	-9.8	99	-0.01	12.79
57	M	4-METHYL-2-PENTANONE	0.149	0.150	-0.7	95	-0.01	12.88
58	M	1,1-DICHLOROPROPANONE	0.113	0.138	-22.1	111	0.00	12.98
59	M	TOLUENE	0.642	0.689	-7.3	95	-0.01	13.21
60	M	trans-1,3-DICHLOROPROPENE	0.444	0.507	-14.2	104	0.00	13.39
61	M	ETHYL METHACRYLATE	0.438	0.439	-0.2	92	0.00	13.41
62	M	1,1,2-TRICHLOROETHANE	0.231	0.258	-11.7	103	0.00	13.62
63	M	1,3-DICHLOROPROPANE	0.461	0.525	-13.9	104	0.00	13.82
64	M	2-HEXANONE	0.143	0.143	0.0	94	-0.01	13.80
65	M	TETRACHLOROETHYLENE	0.254	0.286	-12.6	98	-0.01	13.87
66	M	DIBROMOCHLOROMETHANE	0.273	0.318	-16.5	105	-0.01	14.11
67	M	1,2-DIBROMOETHANE	0.264	0.305	-15.5	104	-0.01	14.27
68	M	CHLOROBENZENE	0.711	0.811	-14.1	103	0.00	14.80
69	M	1,1,1,2-TETRACHLOROETHANE	0.262	0.308	-17.6	108	-0.01	14.86
70	M	ETHYLBENZENE	1.261	1.359	-7.8	96	0.00	14.87
71	M	m,p-XYLENE	0.479	0.542	-13.2	102	0.00	14.99
72	M	o-XYLENE	0.481	0.551	-14.6	103	-0.01	15.44
73	M	STYRENE	0.821	0.866	-5.5	95	0.00	15.44
74	M	BROMOFORM	0.207	0.239	-15.5	108	0.00	15.71
75	M	ISOPROPYLBENZENE	1.259	1.406	-11.7	99	-0.01	15.81
76	M	BROMOBENZENE	0.303	0.359	-18.5	109	0.00	16.23
77	M	1,1,2,2-TETRACHLOROETHANE	0.436	0.489	-12.2	106	-0.01	16.09
78	M	TRANS-1,4-DICHLORO-2-BUTE	0.114	0.135	-18.4	111	-0.01	16.13
79	M	1,2,3-TRICHLOROPROPANE	0.119	0.142	-19.3	111	-0.01	16.17
80	M	n-PROPYLBENZENE	1.533	1.692	-10.4	100	-0.01	16.25
81	M	O-CHLOROTOLUENE	0.298	0.348	-16.8	108	-0.01	16.41
82	M	1,3,5-TRIMETHYLBENZENE	1.084	1.233	-13.7	102	0.00	16.41
83	M	P-CHLOROTOLUENE	0.977	1.068	-9.3	101	-0.01	16.51
84	M	tert-BUTYLBENZENE	0.915	0.944	-3.2	93	-0.01	16.79
85	M	1,2,4-TRIMETHYLBENZENE	1.129	1.132	-0.3	91	-0.01	16.83
86	M	PENTACHLOROETHANE	0.191	0.210	-9.9	102	0.00	16.87
87	M	sec-BUTYLBENZENE	1.413	1.442	-2.1	91	-0.01	17.02
88	M	p-ISOPROPYLTOLUENE	1.148	1.204	-4.9	94	0.00	17.15
89	M	M-DICHLOROBENZENE	0.608	0.645	-6.1	98	0.00	17.22
90	M	P-DICHLOROBENZENE	0.633	0.674	-6.5	97	-0.01	17.30
91	M	n-BUTYLBENZENE	0.627	0.642	-2.4	90	0.00	17.59
92	M	O-DICHLOROBENZENE	0.624	0.705	-13.0	104	0.00	17.72
93	M	HEXACHLOROETHANE	0.169	0.182	-7.7	95	-0.01	18.03
94	M	1,2-DIBROMO-3-CHLOROPROPA	0.076	0.080	-5.3	97	-0.01	18.51
95	M	NITROBENZENE	0.040	0.044	-10.0	105	0.00	18.72
96	M	1,2,4-TRICHLOROBENZENE	0.477	0.535	-12.2	102	-0.01	19.41
97	M	HEXACHLOROBUTADIENE	0.222	0.235	-5.9	95	0.00	19.55

5.7.3 5

Continuing Calibration Summary

Job Number: JA65236
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2368-CC2336
Lab FileID: 1B51762.D

98	M	NAPHTHALENE	1.425	1.565	-9.8	100	-0.01	19.70
99	M	1,2,3-TRICHLOROBENZENE	0.465	0.531	-14.2	104	0.00	19.97

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1b51066.D M1B2336.M Tue Jan 04 08:19:49 2011 MS1B

5.7.3

New Jersey ACCUTEST LABORATORIES

GC/MS Volatiles

6

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51766.D
Acq On : 3 Jan 2011 12:04 pm
Operator : mohui
Sample : ja65236-1
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 04 08:22:06 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.851	65	22379	50.00	PPB	-0.01
4) FLUOROBENZENE	11.274	96	59171	5.00	PPb	-0.01
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	21279	5.03	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 100.60%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23574	5.52	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 110.40%			
Target Compounds						Qvalue
24) METHYL TERT BUTYL ETHER	8.343	73	863	0.08	PPb	55
32) cis-1,2-DICHLOROETHYLENE	9.806	96	2175	0.58	PPb	81
37) CHLOROFORM	10.199	83	406	0.07	PPb	88
47) TRICHLOROETHYLENE	11.741	95	2749	0.90	PPb	86
65) TETRACHLOROETHYLENE	13.870	166	87991	29.30	PPb	98

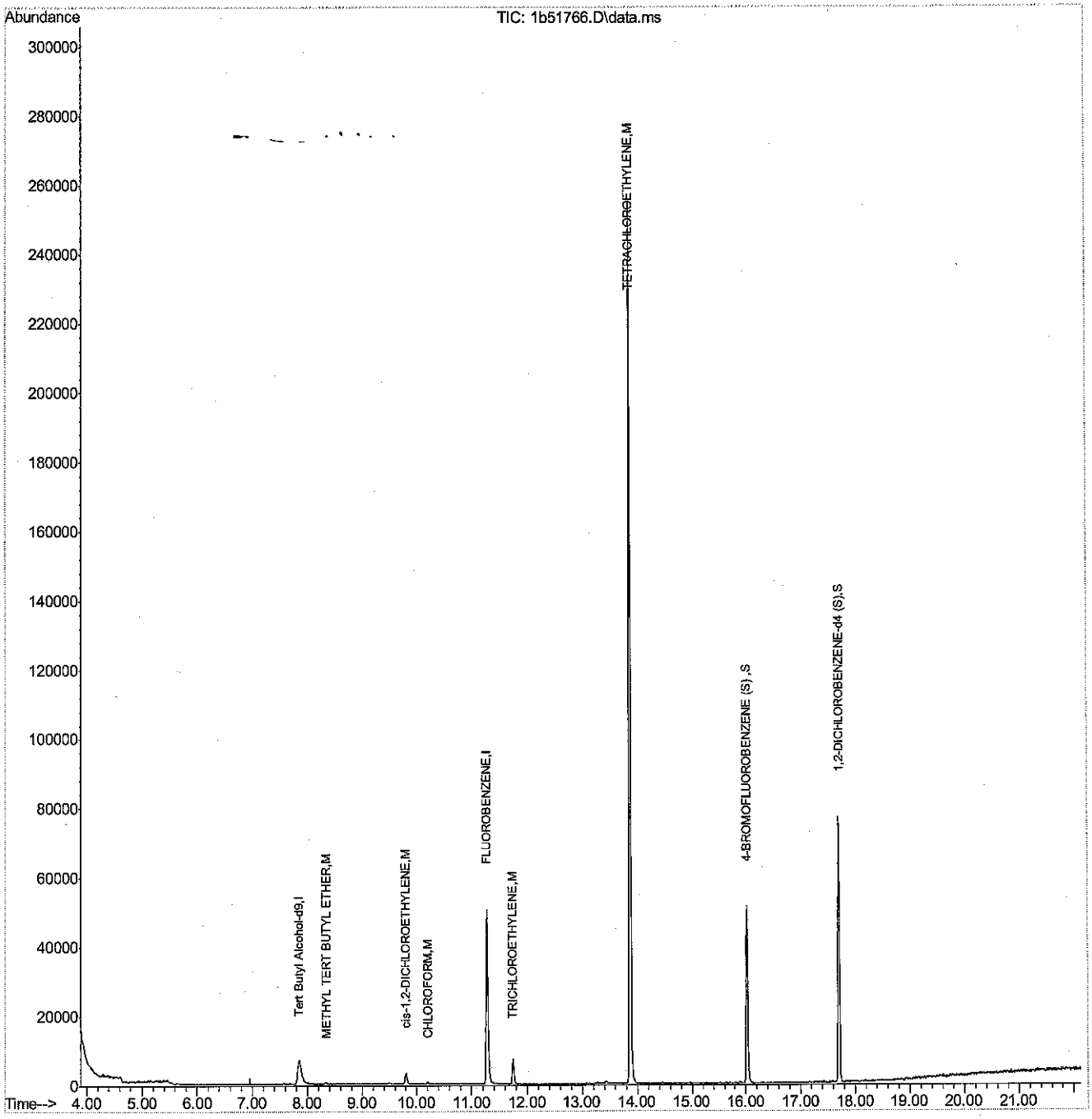
(#) = qualifier out of range (m) = manual integration (+) = signals summed

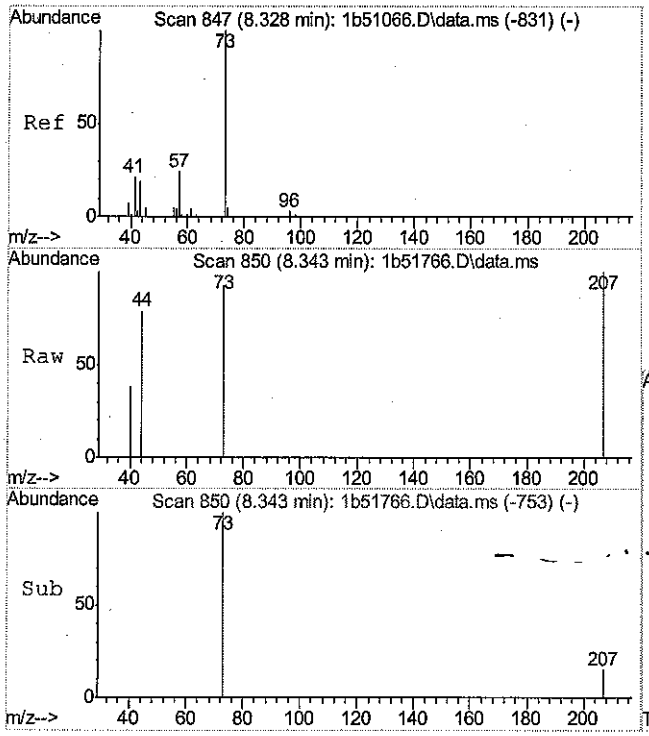
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51766.D
Acq On : 3 Jan 2011 12:04 pm
Operator : mohui
Sample : ja65236-1
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 04 08:22:06 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.1 6

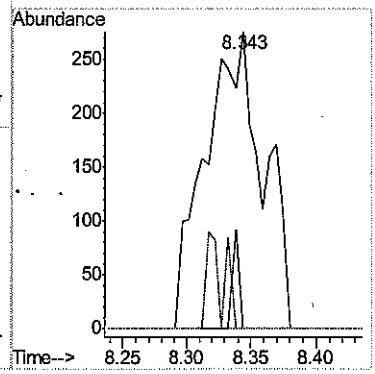


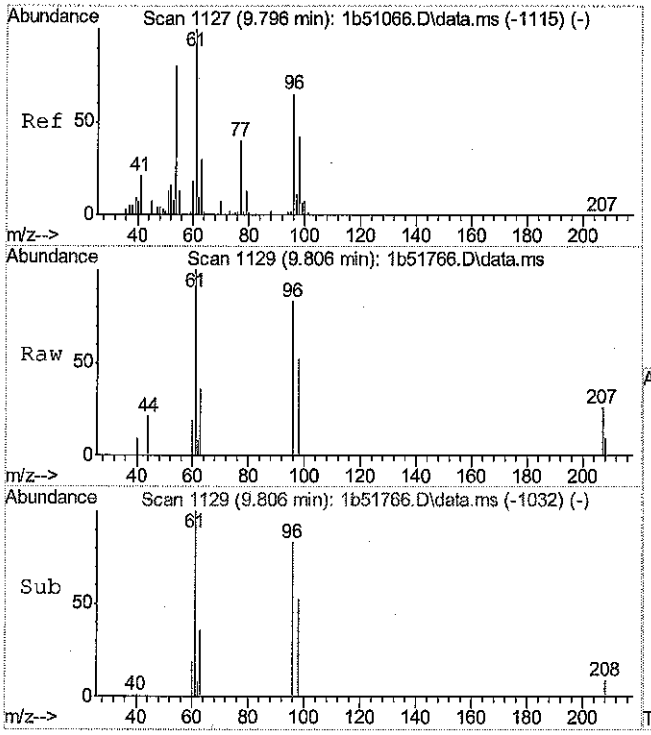


#24
METHYL TERT BUTYL ETHER
Concen: 0.08 PPb
RT: 8.343 min Scan# 850
Delta R.T. 0.011 min
Lab File: 1b51766.D
Acq: 3 Jan 2011 12:04 pm

Tgt Ion: 73 Resp: 863

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	53.7
43	0.0	0.0	48.6

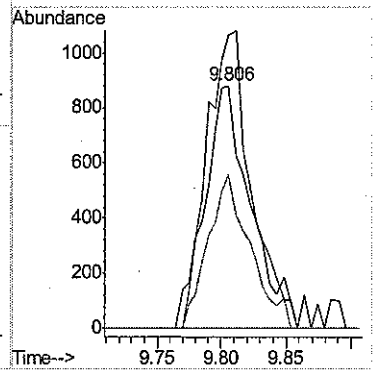


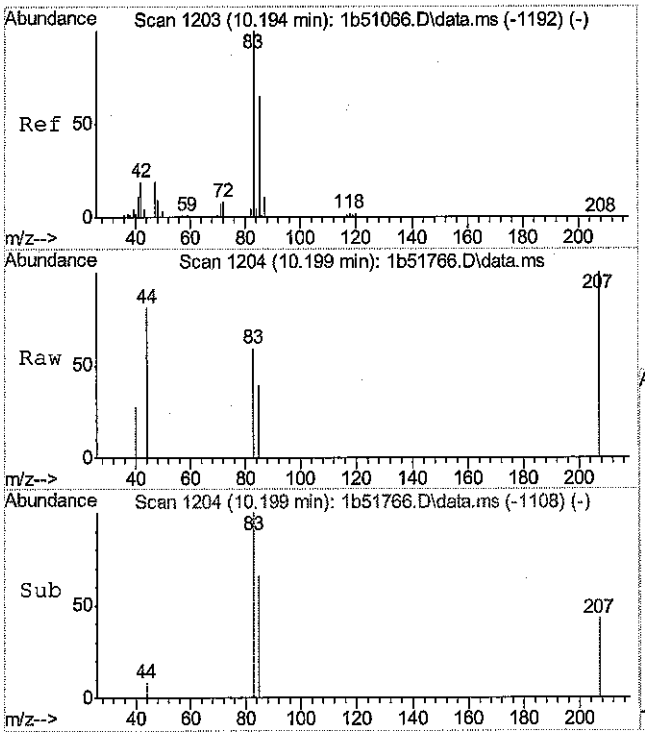


#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.58 PPb
RT: 9.806 min Scan# 1129
Delta R.T. 0.011 min
Lab File: 1b51766.D
Acq: 3 Jan 2011 12:04 pm

Tgt Ion: 96 Resp: 2175

Ion	Ratio	Lower	Upper
96	100		
61	120.8	108.1	200.9
98	63.3	45.2	84.0

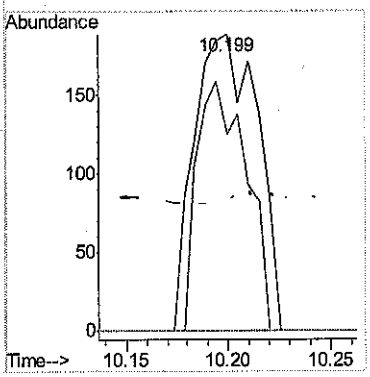


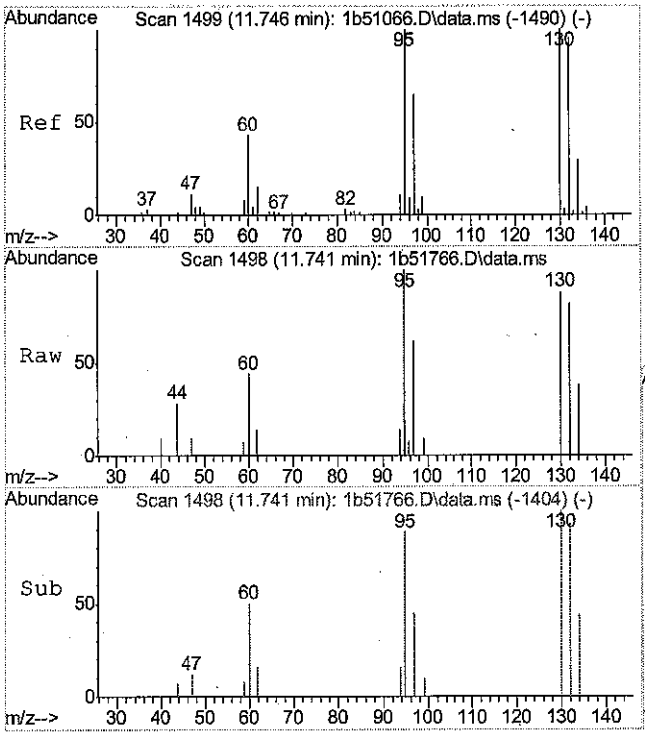


#37
CHLOROFORM
Concen: 0.07 PPb
RT: 10.199 min Scan# 1204
Delta R.T. 0.005 min
Lab File: 1b51766.D
Acq: 3 Jan 2011 12:04 pm

Tgt Ion: 83 Resp: 406

Ion	Ratio	Lower	Upper
83	100		
85	66.1	35.2	95.2
47	0.0	0.0	50.7

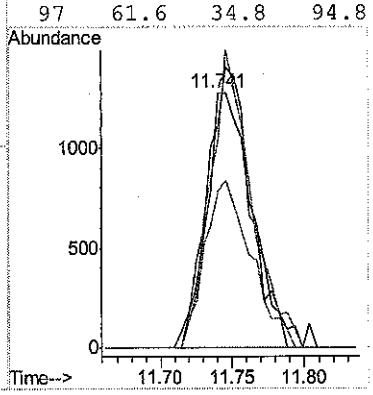


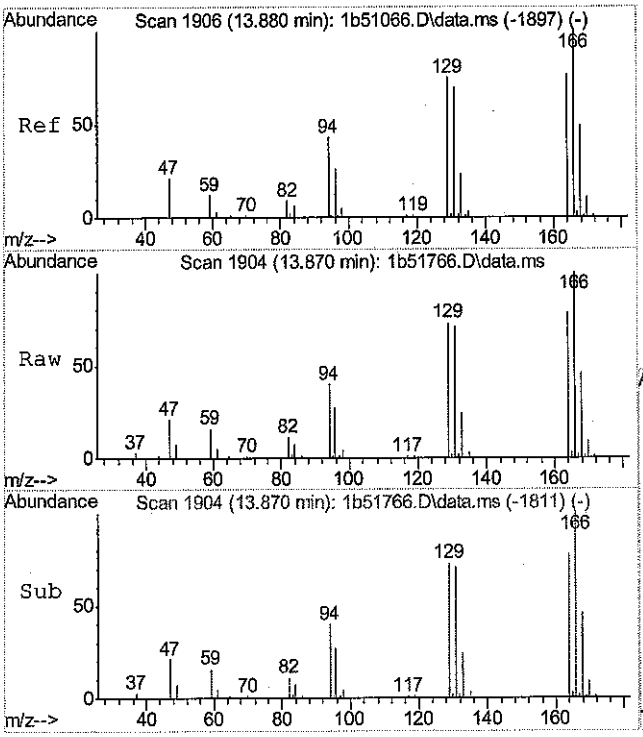


#47
TRICHLOROETHYLENE
Concen: 0.90 PPb
RT: 11.741 min Scan# 1498
Delta R.T. -0.005 min
Lab File: 1b51766.D
Acq: 3 Jan 2011 12:04 pm

Tgt Ion: 95 Resp: 2749

Ion	Ratio	Lower	Upper
95	100		
130	83.7	69.9	129.9
132	78.4	65.4	125.4
97	61.6	34.8	94.8

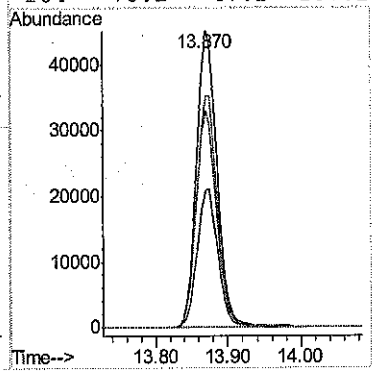




#65
TETRACHLOROETHYLENE
Concen: 29.30 PPb
RT: 13.870 min Scan# 1904
Delta R.T. -0.010 min
Lab File: 1b51766.D
Acq: 3 Jan 2011 12:04 pm

Tgt Ion:166 Resp: 87991

Ion	Ratio	Lower	Upper
166	100		
168	46.1	19.0	79.0
129	73.1	45.2	105.2
164	78.2	47.2	107.2



6.1.1 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51767.D
Acq On : 3 Jan 2011 12:35 pm
Operator : mohui
Sample : ja65236-2
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 04 08:23:07 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.840	65	21935	50.00	PPB	-0.02
4) FLUOROBENZENE	11.274	96	60981	5.00	PPb	-0.01
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	22014	5.05	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.00%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	24111	5.47	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 109.40%			
Target Compounds						Qvalue
24) METHYL TERT BUTYL ETHER	8.328	73	886	0.08	PPb	55
32) cis-1,2-DICHLOROETHYLENE	9.801	96	2329	0.60	PPb	78
37) CHLOROFORM	10.194	83	477	0.08	PPb	77
47) TRICHLOROETHYLENE	11.746	95	2980	0.95	PPb	98
65) TETRACHLOROETHYLENE	13.875	166	90841	29.35	PPb	96

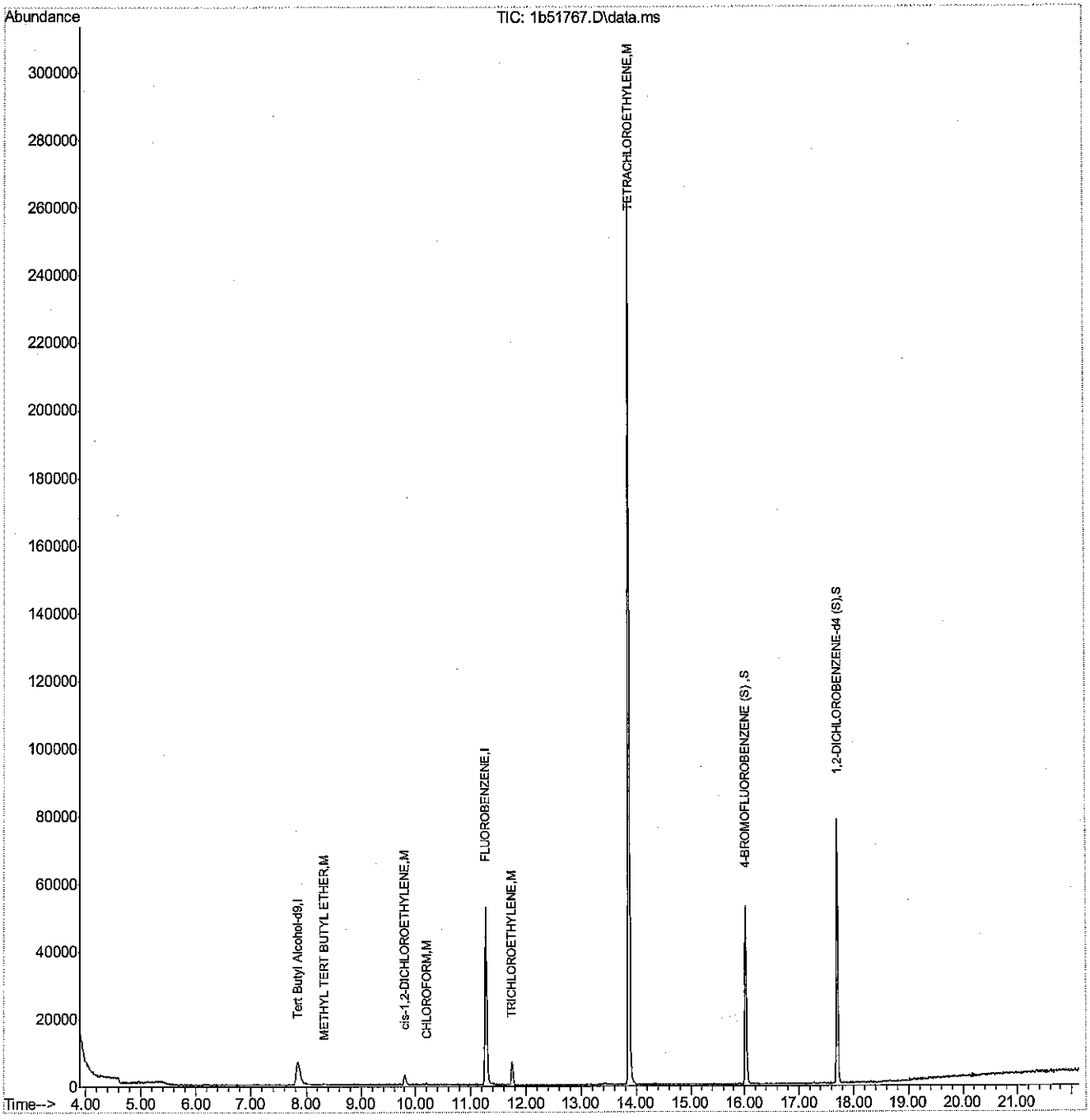
(#) = qualifier out of range (m) = manual integration (+) = signals summed

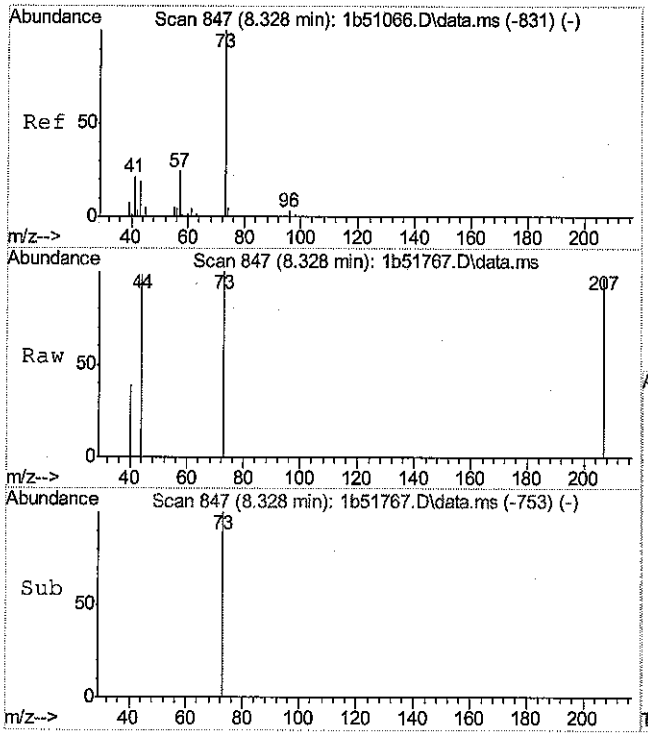
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51767.D
Acq On : 3 Jan 2011 12:35 pm
Operator : mohui
Sample : ja65236-2
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 04 08:23:07 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.2 (6)

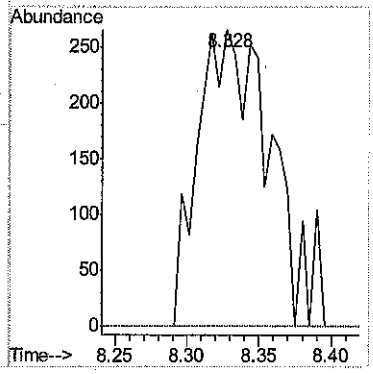


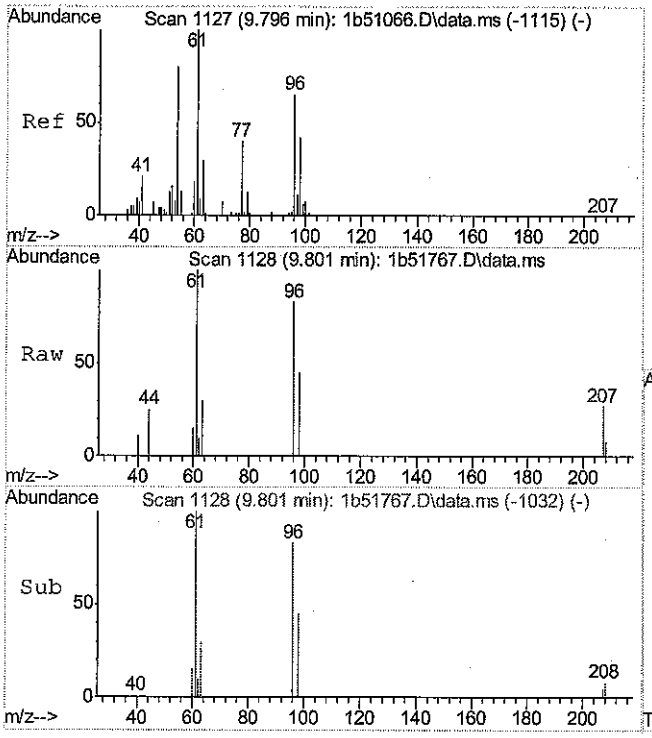


#24
METHYL TERT BUTYL ETHER
Concen: 0.08 PPb
RT: 8.328 min Scan# 847
Delta R.T. -0.005 min
Lab File: 1b51767.D
Acq: 3 Jan 2011 12:35 pm

Tgt Ion: 73 Resp: 886

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	53.7
43	0.0	0.0	48.6

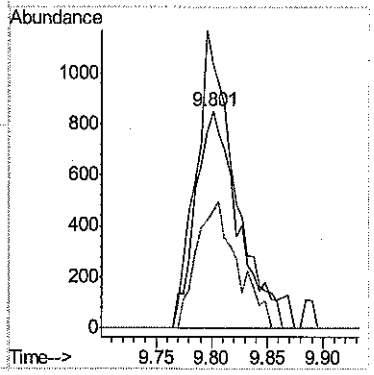


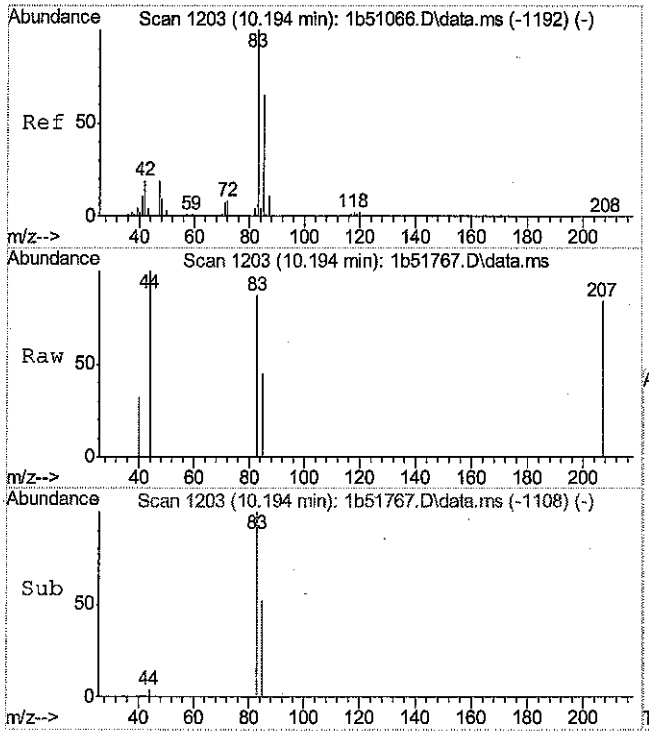


#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.60 PPb
RT: 9.801 min Scan# 1128
Delta R.T. 0.005 min
Lab File: 1b51767.D
Acq: 3 Jan 2011 12:35 pm

Tgt Ion: 96 Resp: 2329

Ion	Ratio	Lower	Upper
96	100		
61	120.9	108.1	200.9
98	54.2	45.2	84.0

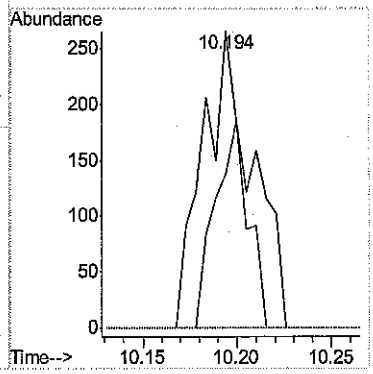


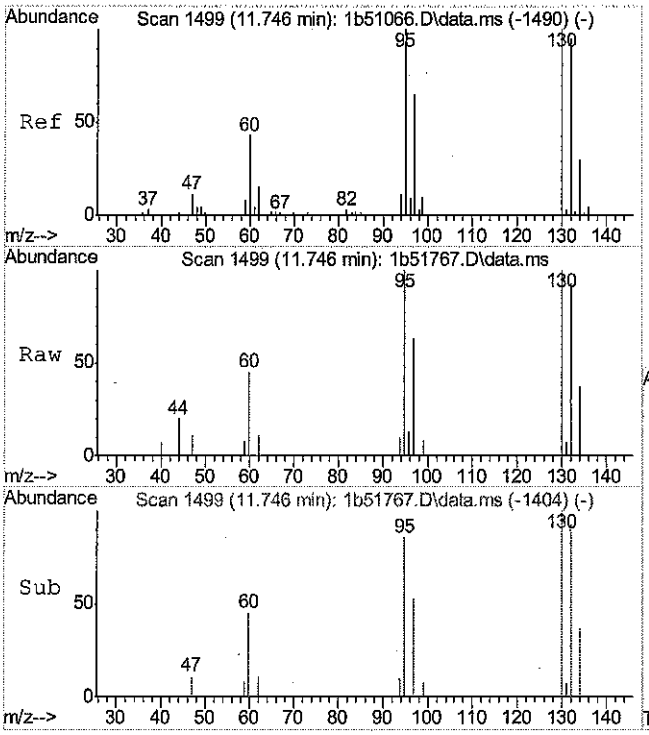


#37
CHLOROFORM
Concen: 0.08 PPb
RT: 10.194 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 1b51767.D
Acq: 3 Jan 2011 12:35 pm

Tgt Ion: 83 Resp: 477

Ion	Ratio	Lower	Upper
83	100		
85	52.1	35.2	95.2
47	0.0	0.0	50.7

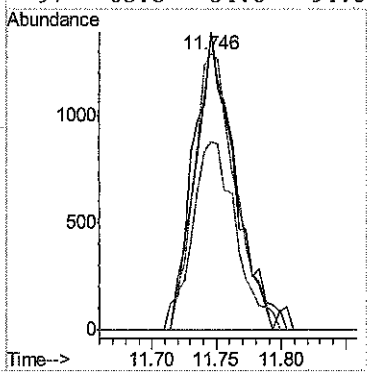


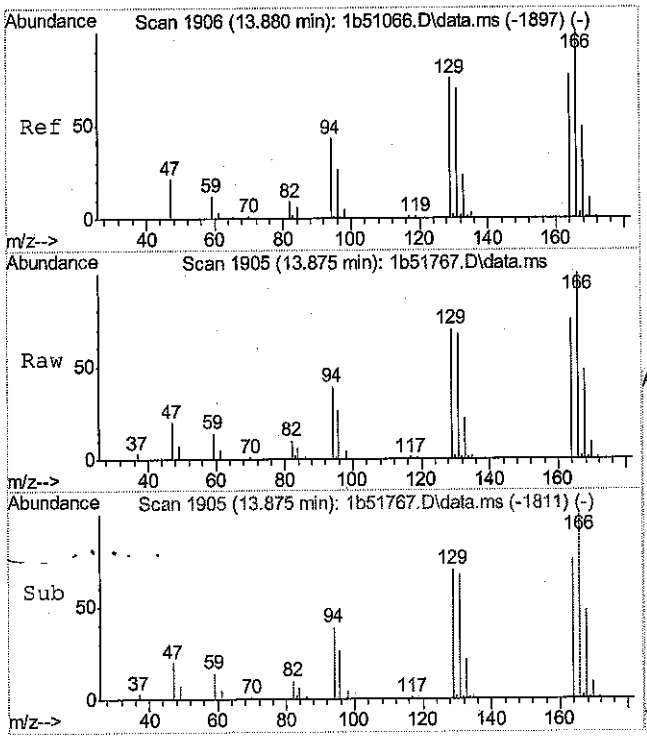


#47
TRICHLOROETHYLENE
Concen: 0.95 PPb
RT: 11.746 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 1b51767.D
Acq: 3 Jan 2011 12:35 pm

Tgt Ion: 95 Resp: 2980

Ion	Ratio	Lower	Upper
95	100		
130	100.1	69.9	129.9
132	92.9	65.4	125.4
97	63.3	34.8	94.8

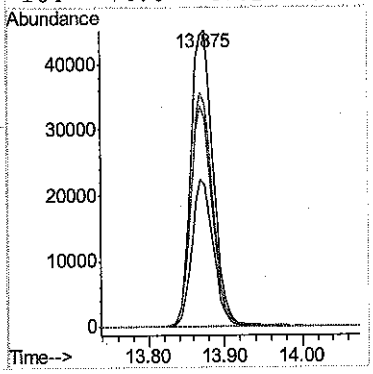




#65
TETRACHLOROETHYLENE
Concen: 29.35 PPb
RT: 13.875 min Scan# 1905
Delta R.T. -0.005 min
Lab File: 1b51767.D
Acq: 3 Jan 2011 12:35 pm

Tgt Ion:166 Resp: 90841

Ion	Ratio	Lower	Upper
166	100		
168	47.6	19.0	79.0
129	70.2	45.2	105.2
164	74.6	47.2	107.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51768.D
Acq On : 3 Jan 2011 1:07 pm
Operator : mohui
Sample : ja65236-3
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 04 08:23:29 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.845	65	23482	50.00	PPB	-0.02
4) FLUOROBENZENE	11.279	96	60005	5.00	PPb	0.00
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.024	95	21824	5.09	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	24256	5.60	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 112.00%			
Target Compounds						Qvalue
37) CHLOROFORM	10.194	83	1491	0.26	PPb	95
52) BROMODICHLOROMETHANE	12.297	83	5019	1.17	PPb	99
66) DIBROMOCHLOROMETHANE	14.111	129	15078	4.61	PPb	97
74) BROMOFORM	15.710	173	20520	8.27	PPb	98

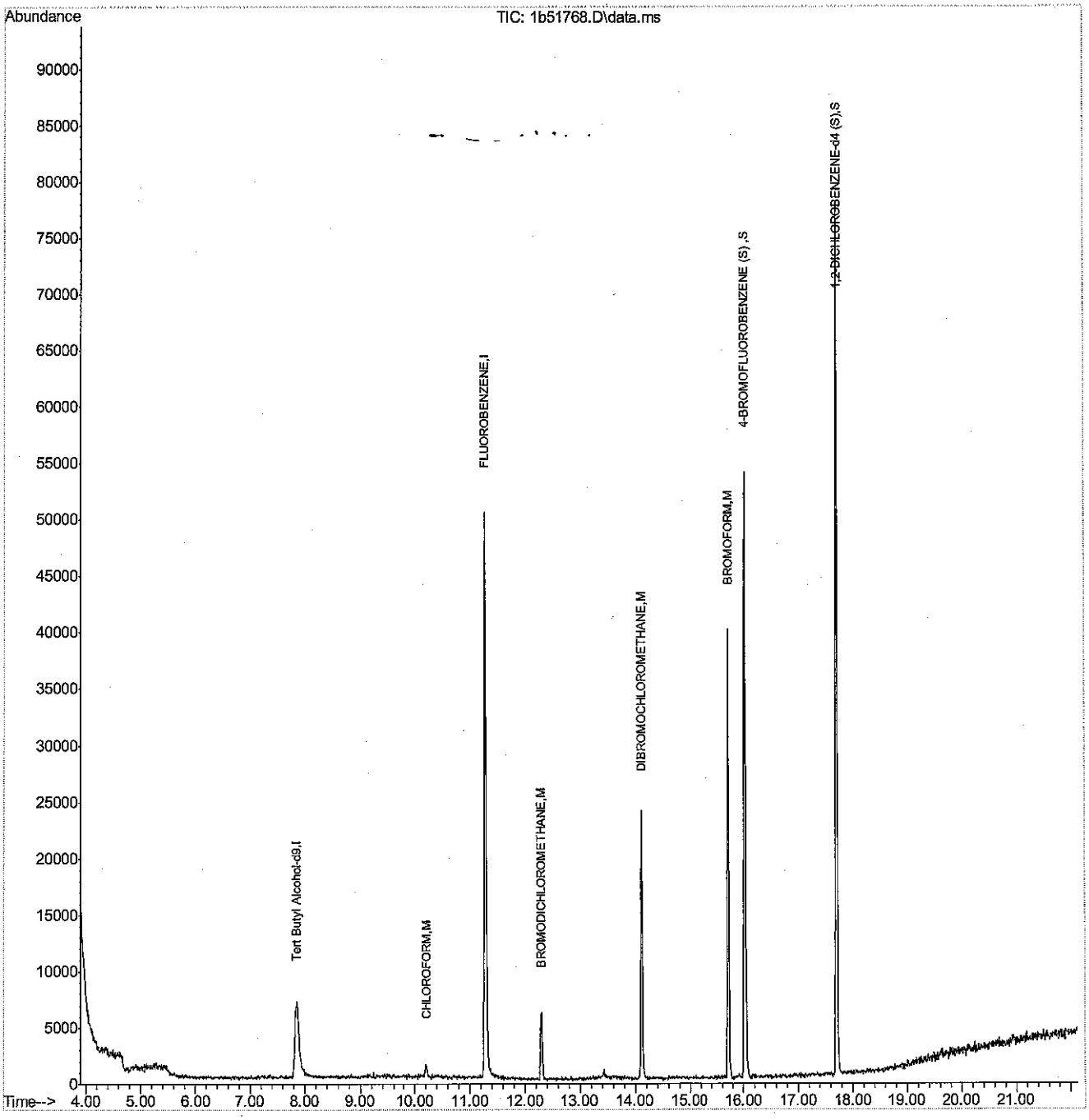
(#) = qualifier out of range (m) = manual integration (+) = signals summed

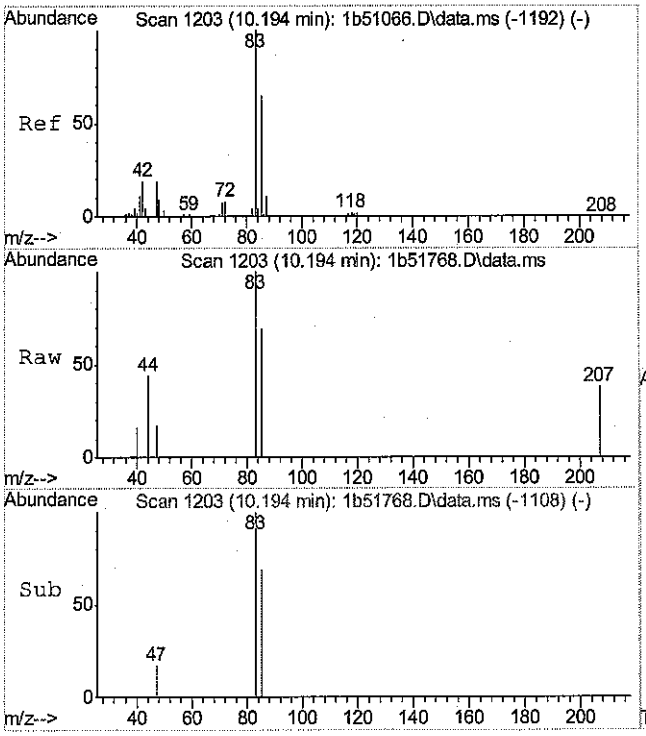
6.1.3 (6)

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51768.D
Acq On : 3 Jan 2011 1:07 pm
Operator : mohui
Sample : ja65236-3
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 04 08:23:29 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

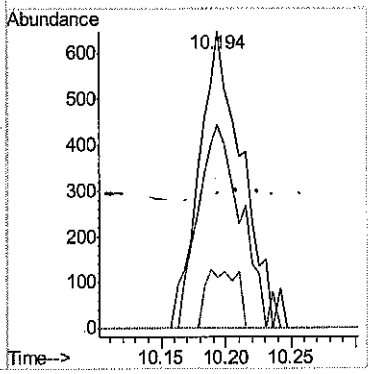


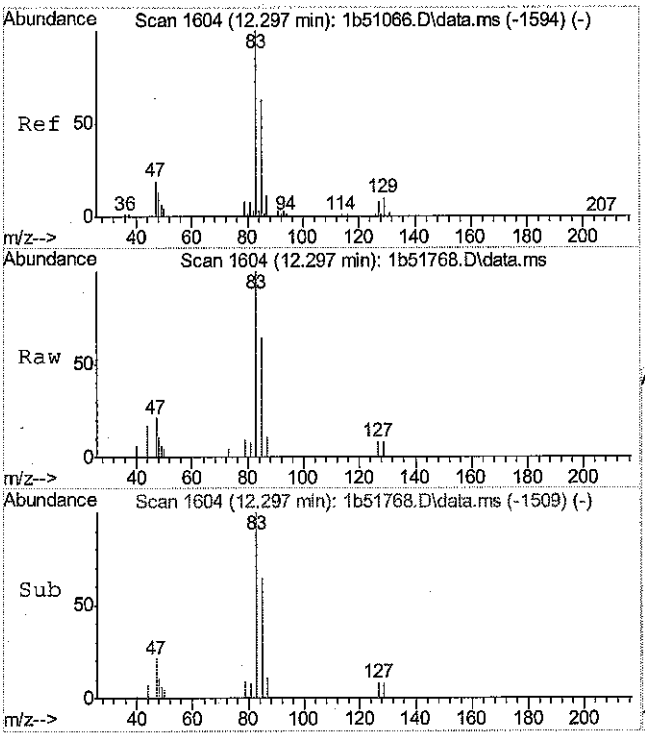


#37
CHLOROFORM
Concen: 0.26 PPb
RT: 10.194 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 1b51768.D
Acq: 3 Jan 2011 1:07 pm

Tgt Ion: 83 Resp: 1491

Ion	Ratio	Lower	Upper
83	100		
85	68.8	35.2	95.2
47	17.2	0.0	50.7

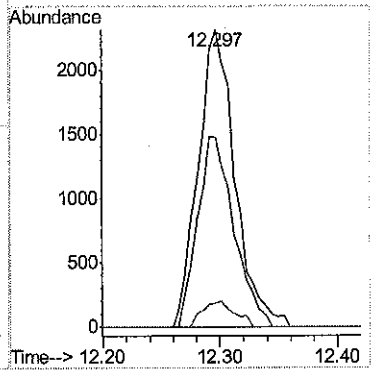


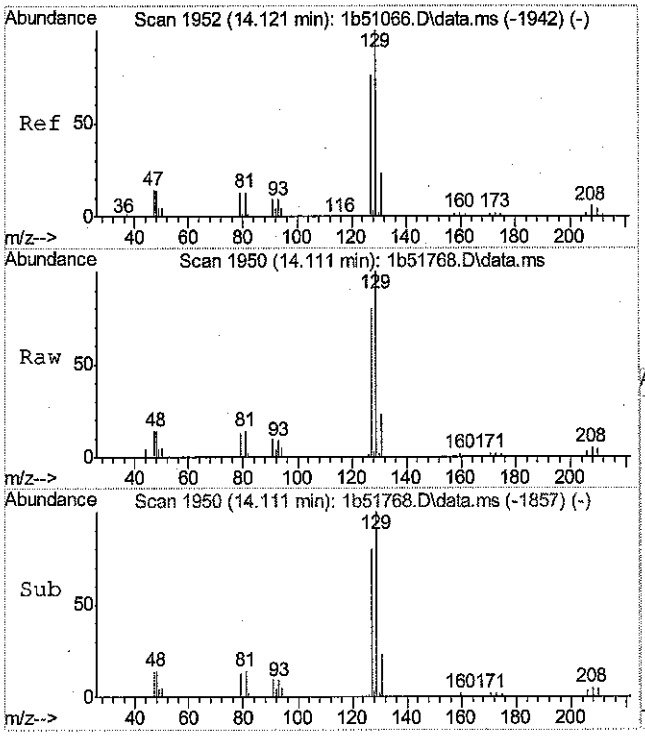


#52
BROMODICHLOROMETHANE
Concen: 1.17 PPb
RT: 12.297 min Scan# 1604
Delta R.T. 0.000 min
Lab File: 1b51768.D
Acq: 3 Jan 2011 1:07 pm

Tgt Ion: 83 Resp: 5019

Ion	Ratio	Lower	Upper
83	100		
85	63.8	33.3	93.3
127	7.9	0.0	38.2

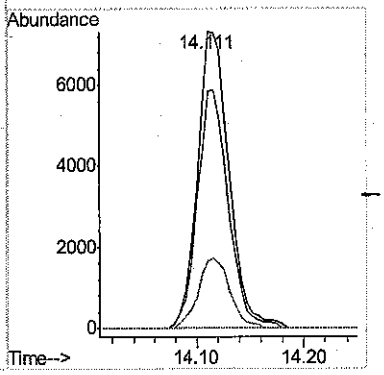


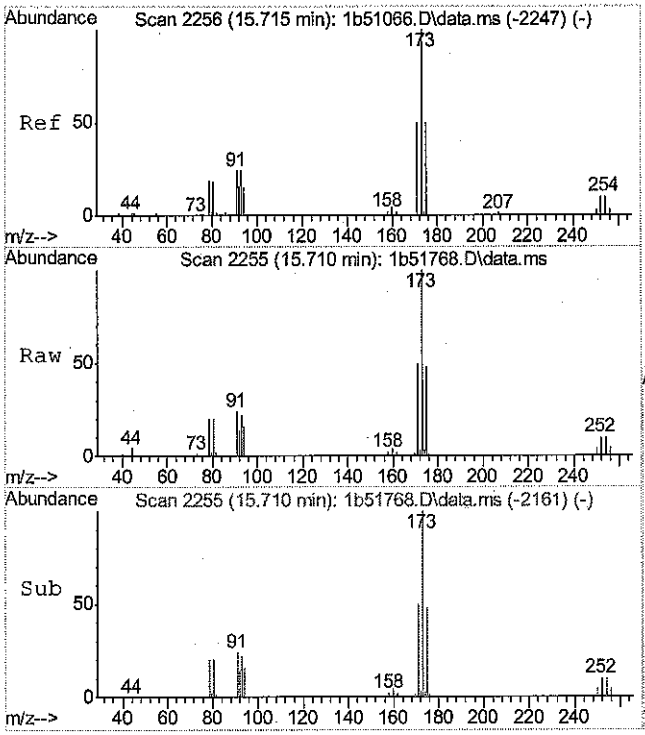


#66
DIBROMOCHLOROMETHANE
Concen: 4.61 PPb
RT: 14.111 min Scan# 1950
Delta R.T. -0.010 min
Lab File: 1b51768.D
Acq: 3 Jan 2011 1:07 pm

Tgt Ion:129 Resp: 15078

Ion	Ratio	Lower	Upper
129	100		
127	79.9	46.2	106.2
131	22.9	0.0	52.9

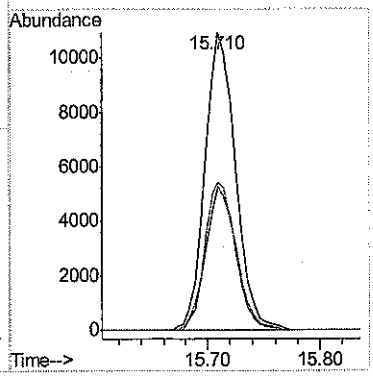




#74
BROMOFORM
Concen: 8.27 PPb
RT: 15.710 min Scan# 2255
Delta R.T. -0.005 min
Lab File: 1b51768.D
Acq: 3 Jan 2011 1:07 pm

Tgt Ion:173 Resp: 20520

Ion	Ratio	Lower	Upper
173	100		
175	48.1	20.1	80.1
171	49.7	19.9	79.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51769.D
Acq On : 3 Jan 2011 1:40 pm
Operator : mohui
Sample : ja65236-4
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 14:11:06 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.845	65	23758	50.00	PPB	-0.02
4) FLUOROBENZENE	11.279	96	66020	5.00	PPb	0.00
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.024	95	24859	5.27	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 105.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.707	152	25982	5.45	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 109.00%			
Target Compounds						Qvalue

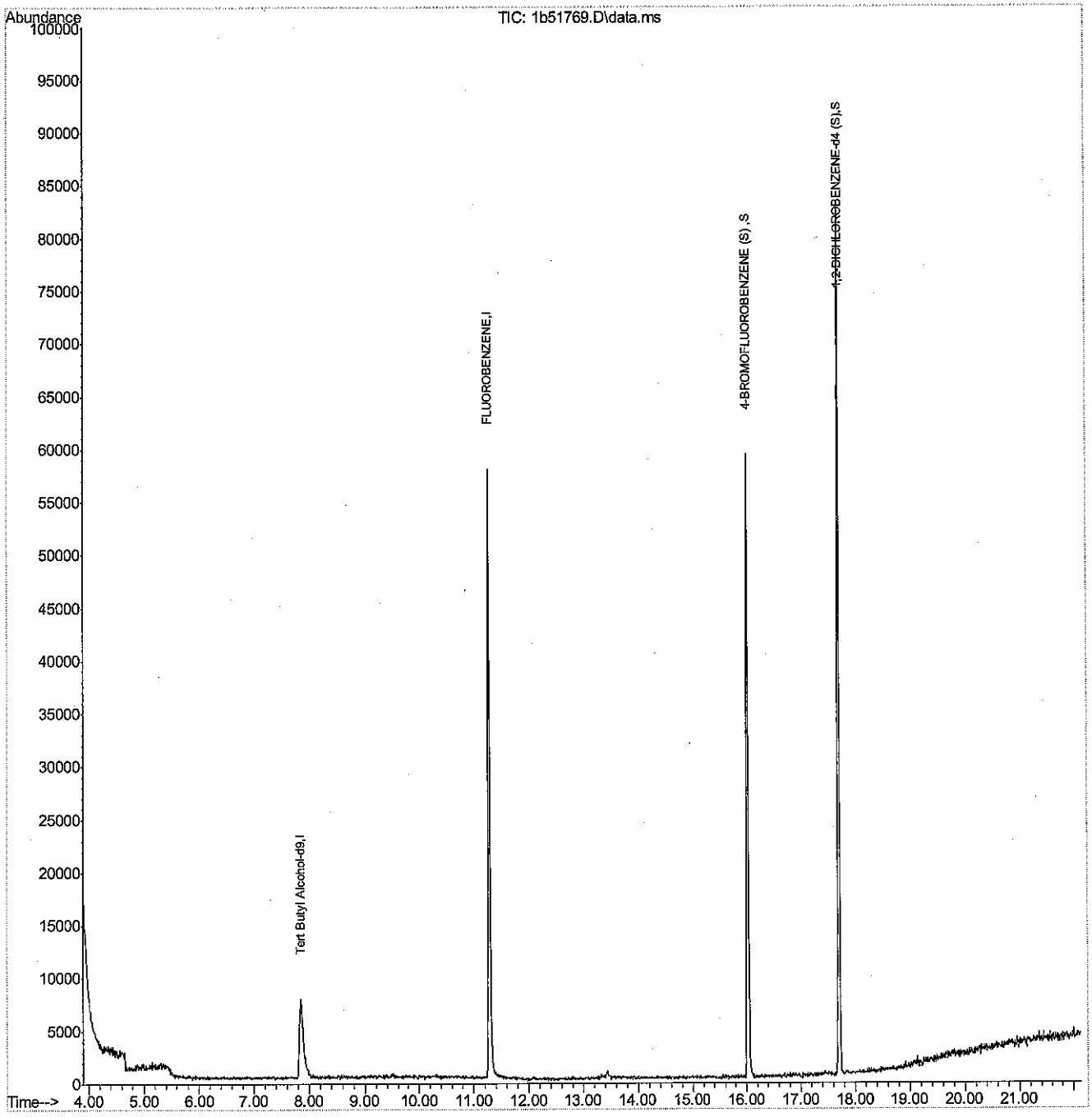
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51769.D
Acq On : 3 Jan 2011 1:40 pm
Operator : mohui
Sample : ja65236-4
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 03 14:11:06 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



M1B2336.M Tue Jan 04 08:53:26 2011 MS1B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51770.D
Acq On : 3 Jan 2011 2:12 pm
Operator : mohui
Sample : ja65236-5
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 04 08:24:50 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.845	65	20069	50.00	PPB	-0.02
4) FLUOROBENZENE	11.280	96	57382	5.00	PPb	0.00
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	20626	5.03	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 100.60%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23148	5.58	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 111.60%			
Target Compounds						Qvalue
32) cis-1,2-DICHLOROETHYLENE	9.806	96	3189	0.88	PPb	87
47) TRICHLOROETHYLENE	11.746	95	825	0.28	PPb	99

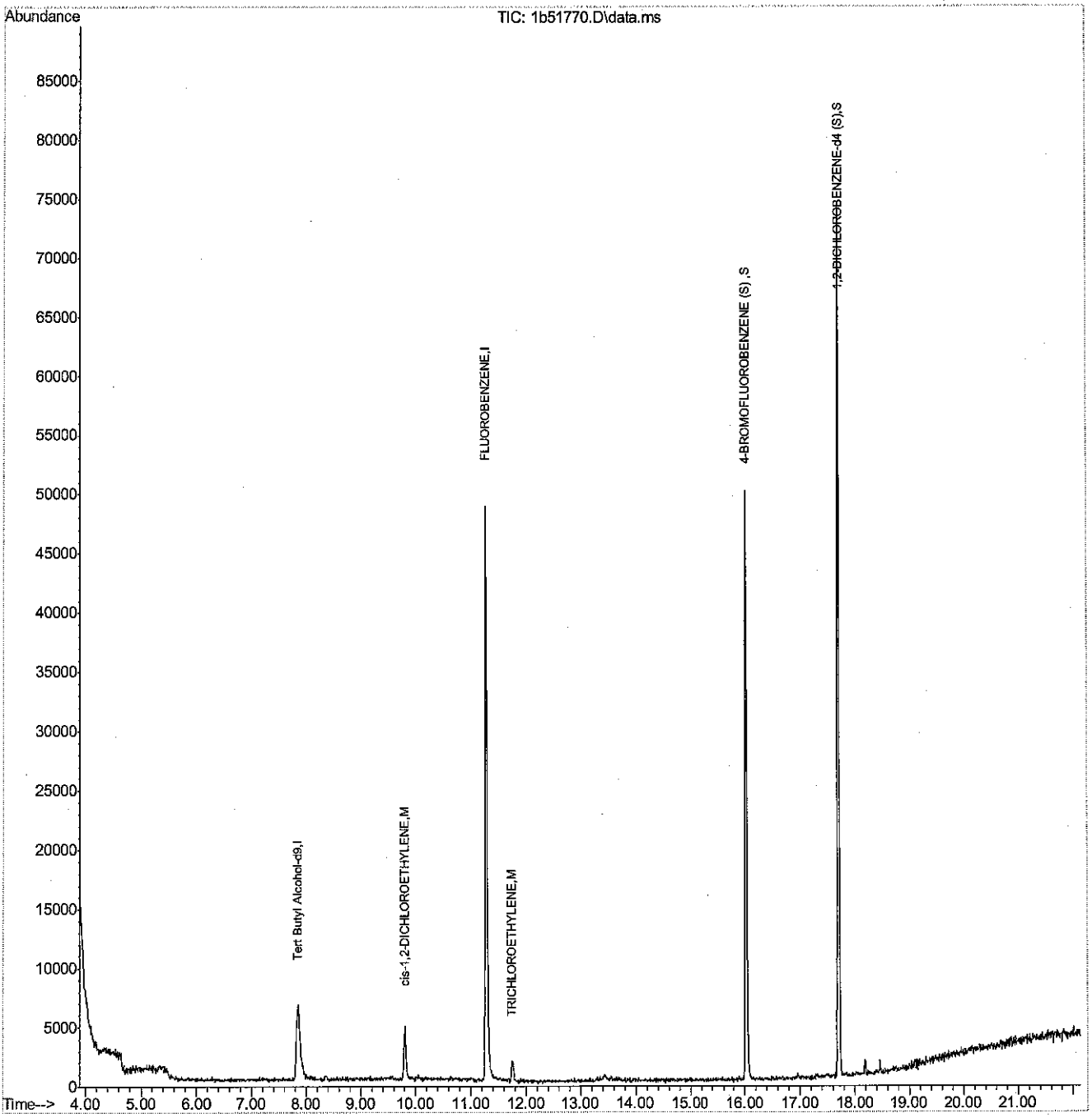
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

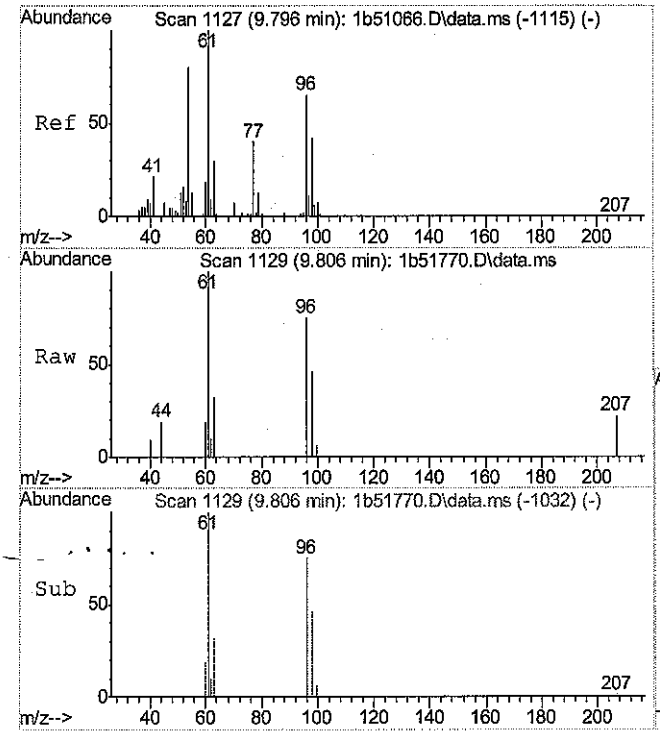
Data Path : C:\msdchem\1\DATA\
Data File : 1b51770.D
Acq On : 3 Jan 2011 2:12 pm
Operator : mohui
Sample : ja65236-5
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 04 08:24:50 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.5
6



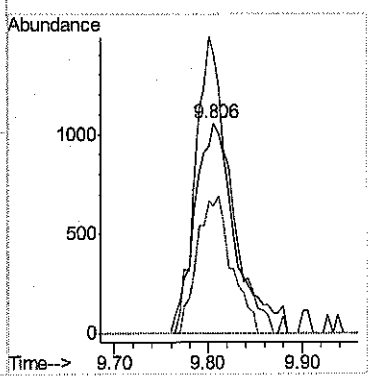
M1B2336.M Tue Jan 04 08:53:27 2011 MS1B

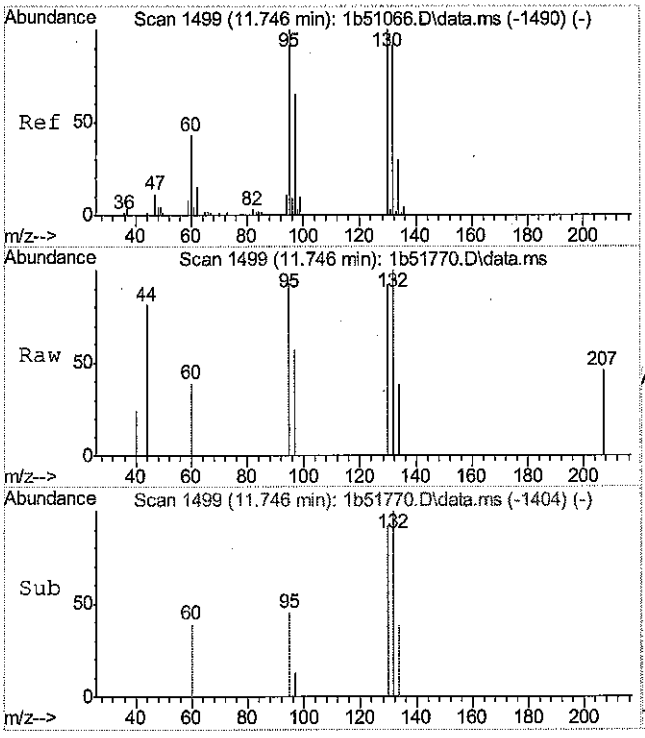


#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.88 PPb
RT: 9.806 min Scan# 1129
Delta R.T. 0.011 min
Lab File: 1b51770.D
Acq: 3 Jan 2011 2:12 pm

Tgt Ion: 96 Resp: 3189

Ion	Ratio	Lower	Upper
96	100		
61	133.7	108.1	200.9
98	61.1	45.2	84.0

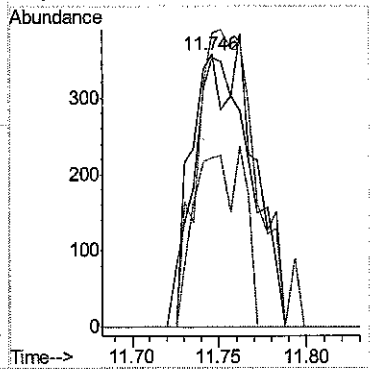




#47
TRICHLOROETHYLENE
Concen: 0.28 PPb
RT: 11.746 min Scan# 1499
Delta R.T. 0.000 min
Lab File: 1b51770.D
Acq: 3 Jan 2011 2:12 pm

Tgt Ion: 95 Resp: 825

Ion	Ratio	Lower	Upper
95	100		
130	98.9	69.9	129.9
132	95.2	65.4	125.4
97	61.9	34.8	94.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51771.D
Acq On : 3 Jan 2011 2:44 pm
Operator : mohui
Sample : ja65236-6
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 04 08:25:13 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.845	65	21168	50.00	PPB	-0.02
4) FLUOROBENZENE	11.274	96	57649	5.00	PPb	-0.01
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.025	95	21222	5.15	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 103.00%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23072	5.54	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 110.80%			
Target Compounds						Qvalue
37) CHLOROFORM	10.194	83	488	0.09	PPb	83
65) TETRACHLOROETHYLENE	13.875	166	1726	0.59	PPb	85

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

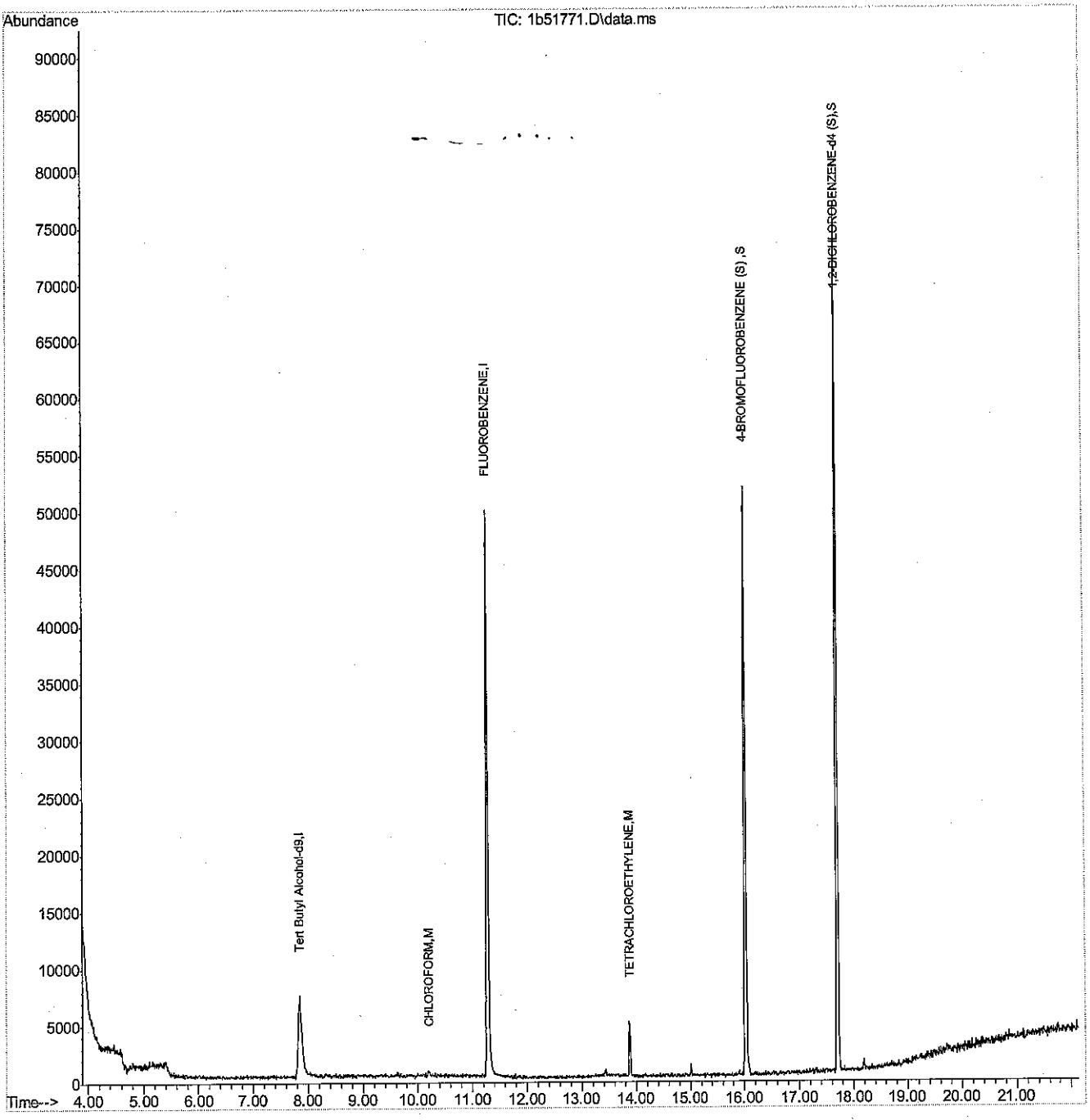
6.1.6

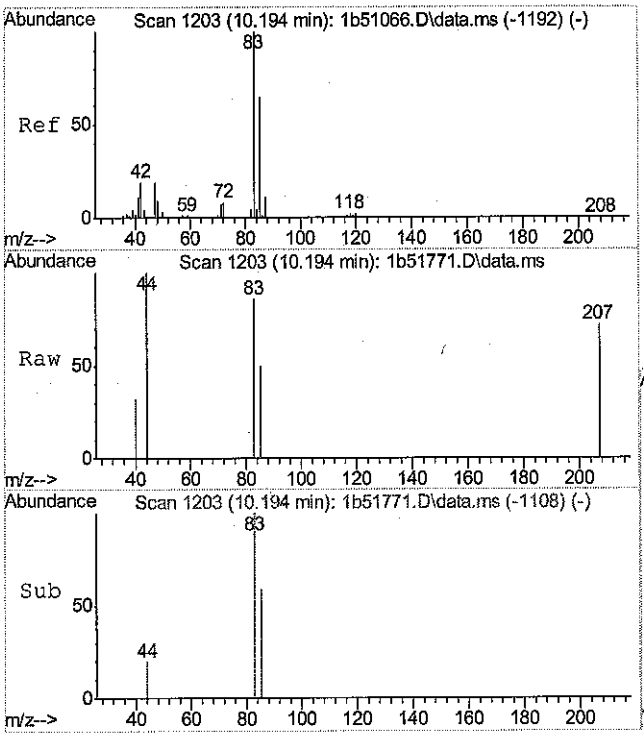
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51771.D
Acq On : 3 Jan 2011 2:44 pm
Operator : mohui
Sample : ja65236-6
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jan 04 08:25:13 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.6

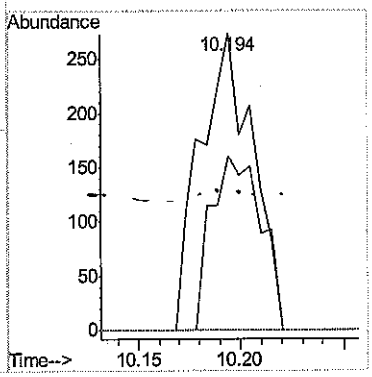


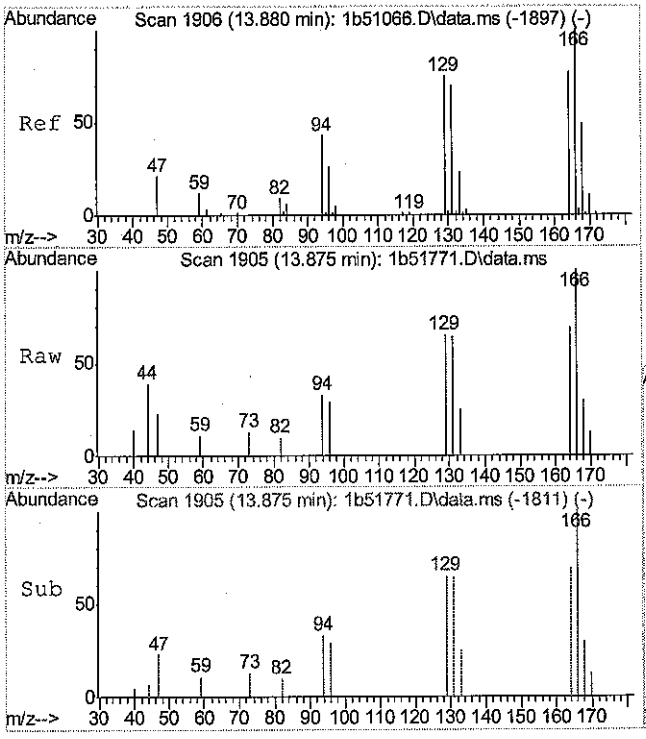


#37
CHLOROFORM
Concen: 0.09 PPb
RT: 10.194 min Scan# 1203
Delta R.T. 0.000 min
Lab File: 1b51771.D
Acq: 3 Jan 2011 2:44 pm

Tgt Ion: 83 Resp: 488

Ion	Ratio	Lower	Upper
83	100		
85	58.6	35.2	95.2
47	0.0	0.0	50.7

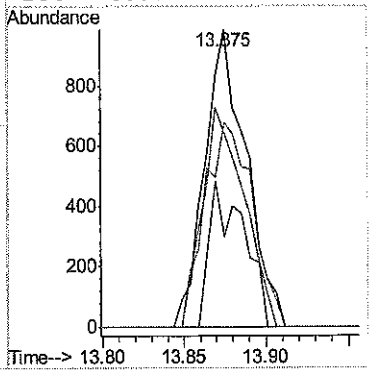




#65
TETRACHLOROETHYLENE
Concen: 0.59 PPb
RT: 13.875 min Scan# 1905
Delta R.T. -0.005 min
Lab File: 1b51771.D
Acq: 3 Jan 2011 2:44 pm

Tgt Ion:166 Resp: 1726

Ion	Ratio	Lower	Upper
166	100		
168	30.2	19.0	79.0
129	65.1	45.2	105.2
164	68.7	47.2	107.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51772.D
Acq On : 3 Jan 2011 3:16 pm
Operator : mohui
Sample : ja65236-7
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 04 08:25:33 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.856	65	22540	50.00	PPB	0.00
4) FLUOROBENZENE	11.280	96	59572	5.00	PPb	0.00
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	22045	5.18	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 103.60%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23460	5.45	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 109.00%			
Target Compounds						Qvalue

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

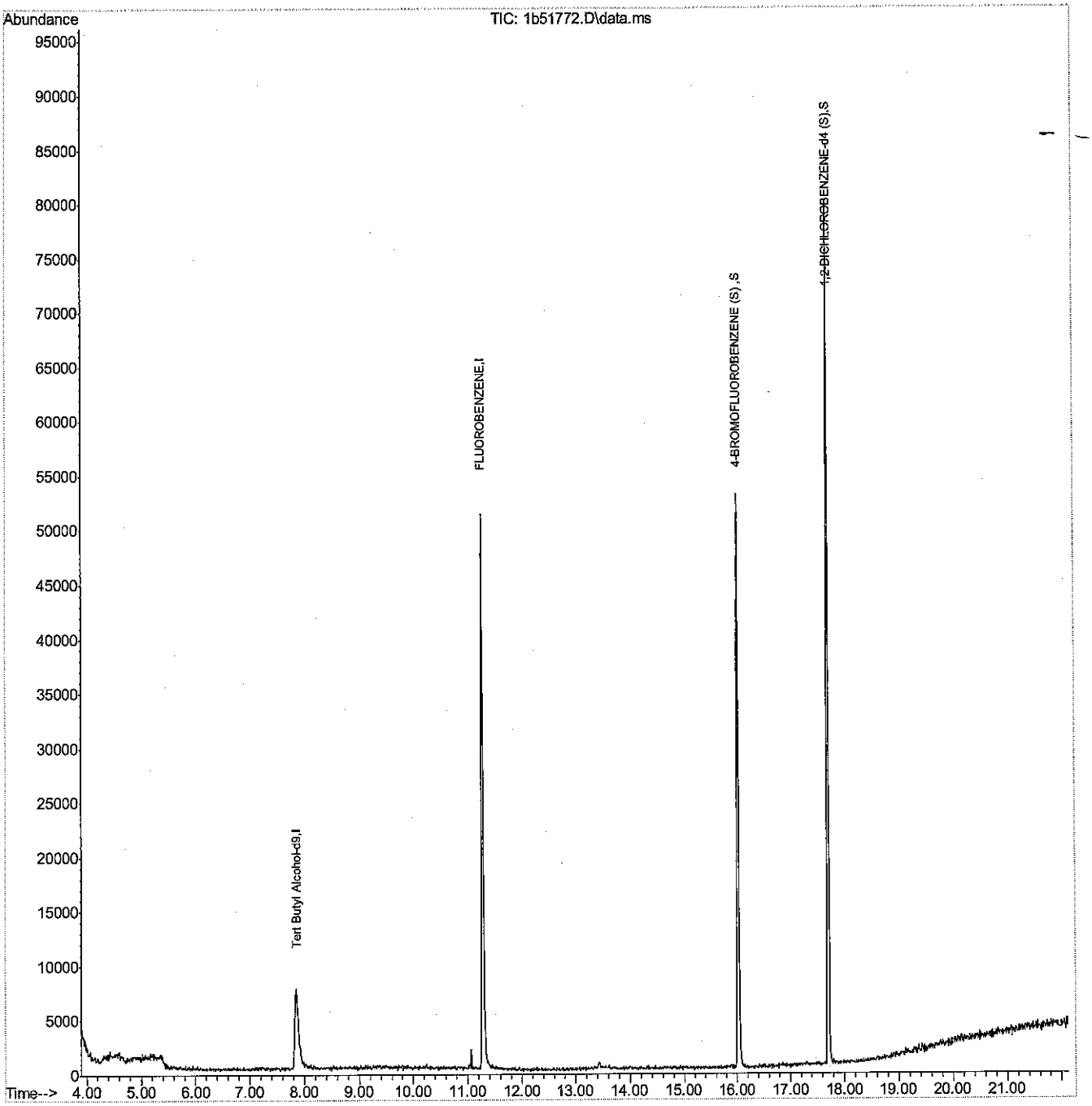
9.1.7 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51772.D
Acq On : 3 Jan 2011 3:16 pm
Operator : mohui
Sample : ja65236-7
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jan 04 08:25:33 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51773.D
Acq On : 3 Jan 2011 3:48 pm
Operator : mohui
Sample : ja65236-8
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 04 08:25:53 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.840	65	19814	50.00	PPB	-0.02
4) FLUOROBENZENE	11.279	96	58795	5.00	PPb	0.00
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.024	95	22235	5.29	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 105.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	22770	5.36	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 107.20%			
Target Compounds						Qvalue

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

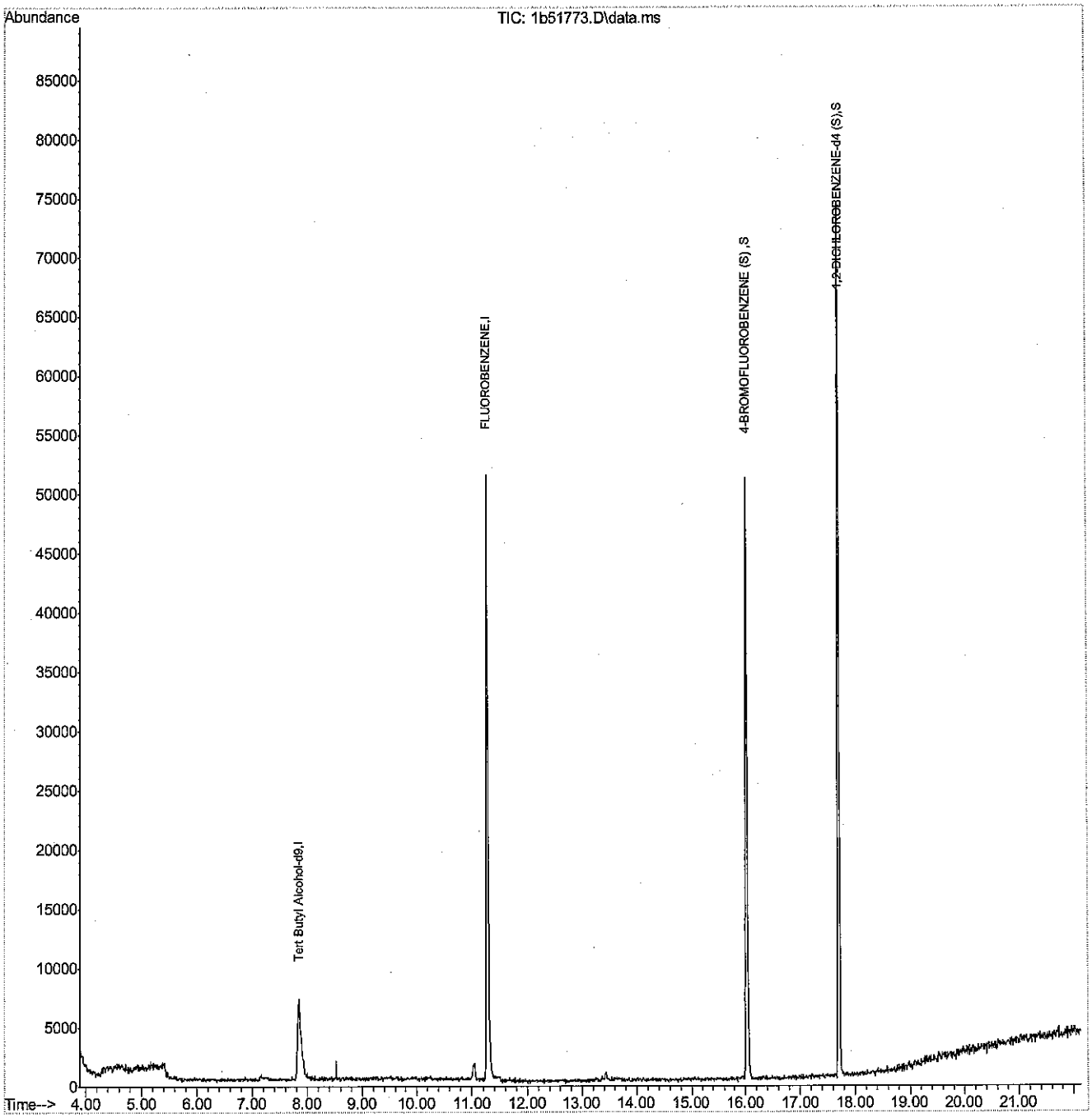
6.1.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51773.D
Acq On : 3 Jan 2011 3:48 pm
Operator : mohui
Sample : ja65236-8
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 04 08:25:53 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.1.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51763.D
Acq On : 3 Jan 2011 10:12 am
Operator : mohui
Sample : mb1
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 08:20:36 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.835	65	22140	50.00	PPB	-0.03
4) FLUOROBENZENE	11.274	96	58475	5.00	PPb	-0.01
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	21405	5.12	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 102.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23110	5.47	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 109.40%			
Target Compounds						Qvalue

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

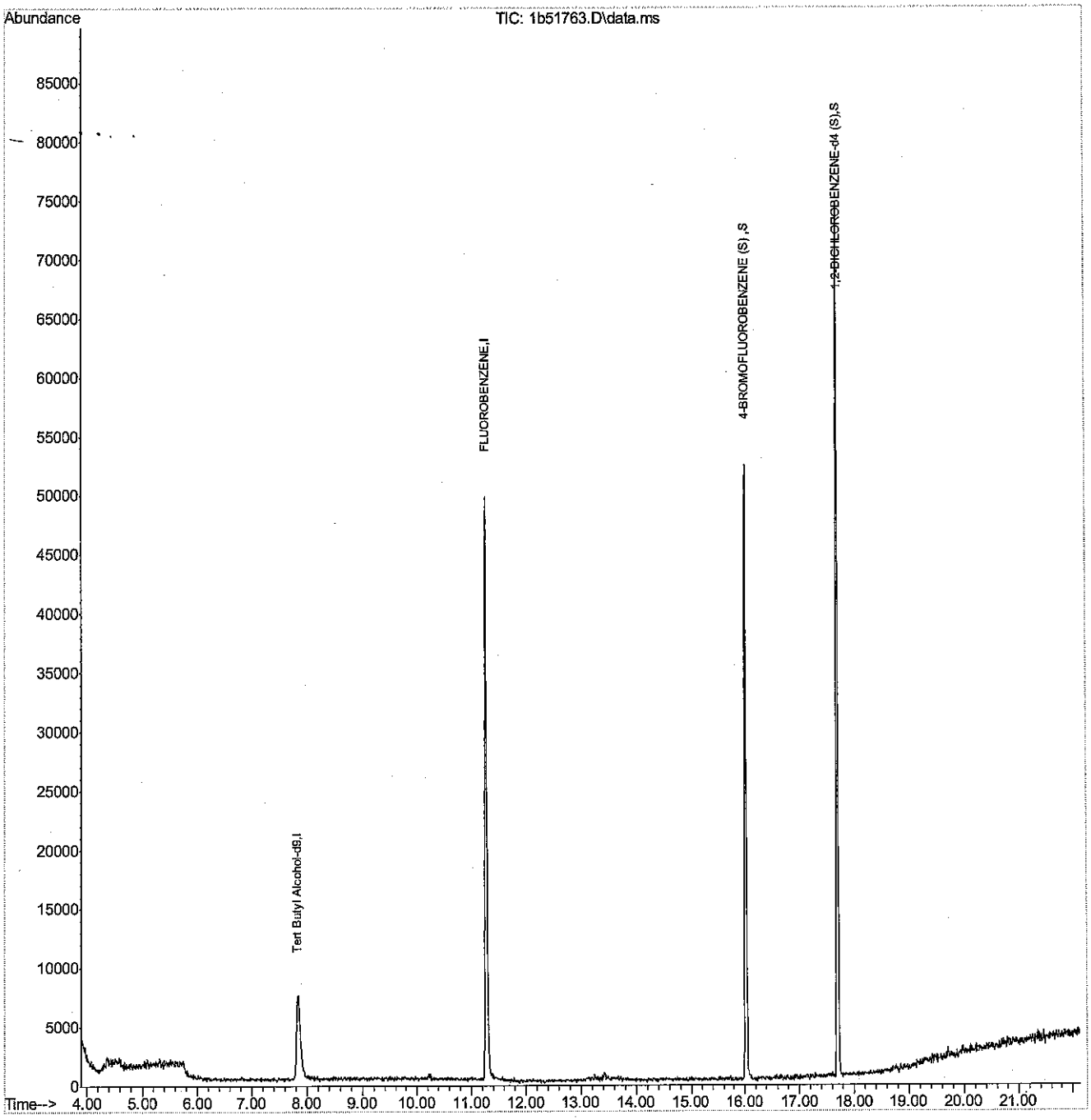
6.2.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51763.D
Acq On : 3 Jan 2011 10:12 am
Operator : mohui
Sample : mb1
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 04 08:20:36 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

6.2.1 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51764.D
Acq On : 3 Jan 2011 10:56 am
Operator : mohui
Sample : bs
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:41:43 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.824	65	22636	50.00	PPB		-0.04
4) FLUOROBENZENE	11.269	96	59542	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	21508	5.06	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.20%				
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23762	5.53	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 110.60%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.971	59	14283	25.81	PPb		95
3) 1,4-Dioxane	12.103	88	5944	152.92	PPB		91
7) DICHLORODIFLUOROMETHANE	4.023	85	9886	2.23	PPb		96
8) CHLOROMETHANE	4.364	50	11167	1.93	PPb		99
9) VINYL CHLORIDE	4.637	62	9169	2.02	PPb		99
10) BROMOMETHANE	5.381	94	5975	2.02	PPb		96
11) CHLOROETHANE	5.591	64	5462	2.01	PPb		99
12) TRICHLOROFLUOROMETHANE	6.162	101	9890	2.39	PPb		99
13) ETHYL ETHER	6.619	45	9942	4.02	PPb		93
14) ACROLEIN	6.839	56	47027	48.52	PPb		96
15) 1,1-DICHLOROETHYLENE	7.090	96	13149	4.55	PPb		87
16) FREON 113	7.090	151	10118	5.85	PPb		91
17) ACETONE	7.096	58	6754	18.55	PPb		94
18) IODOMETHANE	7.379	142	23202	5.03	PPb		99
19) CARBON DISULFIDE	7.562	76	51635	4.82	PPb		99
20) METHYL ACETATE	7.678	74	3409	4.97	PPb	#	85
21) ALLYL CHLORIDE	7.683	76	9416	4.94	PPb		90
22) METHYLENE CHLORIDE	7.882	84	18384	4.40	PPb		97
23) ACRYLONITRILE	8.202	53	42848	24.85	PPb		94
24) METHYL TERT BUTYL ETHER	8.312	73	110900	9.72	PPb		97
25) trans-1,2-DICHLOROETHY...	8.349	61	20923	4.52	PPb		99
26) HEXANE	8.752	57	17131	5.17	PPb		99
27) 1,1-DICHLOROETHANE	8.962	63	29078	4.99	PPb		97
28) DI-ISOPROPYL ETHER	9.009	45	54499	4.56	PPb		92
29) ETHYL TERT-BUTYL ETHER	9.528	59	55177	4.65	PPb		98
30) 2-BUTANONE	9.728	72	9132	20.10	PPb		81
31) 2,2-DICHLOROPROPANE	9.801	77	23975	5.24	PPb		94
32) cis-1,2-DICHLOROETHYLENE	9.785	96	19643	5.20	PPb		99
33) PROPIONITRILE	9.775	54	35135	50.55	PPb		99
34) METHYLACRYLATE	9.880	55	17529	4.89	PPb		100
35) METHACRYLONITRILE	10.016	41	12241	4.96	PPb		95
36) BROMOCHLOROMETHANE	10.116	128	8848	5.40	PPb		78
37) CHLOROFORM	10.179	83	28969	5.12	PPb		98
38) TETRAHYDROFURAN	10.194	42	9631	5.31	PPb		80
39) 1,1,1-TRICHLOROETHANE	10.488	97	22861	5.23	PPb		98
40) CYCLOHEXANE	10.614	84	22890	4.94	PPb	#	100
41) 1-CHLOROBUTANE	10.593	56	58035	4.81	PPb		96
42) 1,1-DICHLOROPROPENE	10.698	75	20663	4.98	PPb		98
43) CARBON TETRACHLORIDE	10.734	117	19741	5.56	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51764.D
Acq On : 3 Jan 2011 10:56 am
Operator : mohui
Sample : bs
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:41:43 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,2-DICHLOROETHANE	10.934	62	23797	5.50	PPb		97
45)	BENZENE	10.955	78	65129	5.01	PPb		97
46)	TERT AMYL METHYL ETHER	11.028	73	55467	4.74	PPB		98
47)	TRICHLOROETHYLENE	11.736	95	16029	5.23	PPb		96
48)	METHYLCYCLOHEXANE	12.008	83	24605	5.26	PPb		99
49)	METHYL METHACRYLATE	12.008	69	18581	4.69	PPb		86
50)	1,2-DICHLOROPROPANE	11.977	63	18304	5.14	PPb		97
51)	DIBROMOMETHANE	12.145	93	11396	5.48	PPb		94
52)	BROMODICHLOROMETHANE	12.286	83	22193	5.21	PPb		99
53)	CHLOROACETONITRILE	12.433	75	7206	29.31	PPb		88
54)	2-NITROPROPANE	12.470	41	5935	5.54	PPb		83
55)	2-CHLOROETHYL VINYL ETHER	12.548	63	63958	23.73	PPb		97
56)	cis-1,3-DICHLOROPROPENE	12.790	75	29662	5.31	PPb		99
57)	4-METHYL-2-PENTANONE	12.879	58	33727	19.07	PPb		96
58)	1,1-DICHLOROPROPANONE	12.984	43	6721	5.01	PPb		96
59)	TOLUENE	13.209	92	40689	5.32	PPb		98
60)	trans-1,3-DICHLOROPROPENE	13.387	75	28691	5.42	PPb		99
61)	ETHYL METHACRYLATE	13.408	69	24308	4.67	PPb		95
62)	1,1,2-TRICHLOROETHANE	13.613	83	14599	5.31	PPb		98
63)	1,3-DICHLOROPROPANE	13.812	76	30313	5.52	PPb		92
64)	2-HEXANONE	13.807	58	32491	19.02	PPb		97
65)	TETRACHLOROETHYLENE	13.870	166	16184	5.36	PPb		97
66)	DIBROMOCHLOROMETHANE	14.106	129	17594	5.42	PPb		97
67)	1,2-DIBROMOETHANE	14.268	107	17136	5.44	PPb		99
68)	CHLOROBENZENE	14.798	112	46766	5.52	PPb		96
69)	1,1,1,2-TETRACHLOROETHANE	14.855	131	17322	5.54	PPb		98
70)	ETHYLBENZENE	14.871	91	78600	5.23	PPb		97
71)	m,p-XYLENE	14.986	106	62209	10.90	PPb		96
72)	o-XYLENE	15.437	106	31392	5.48	PPb		96
73)	STYRENE	15.443	104	47567	4.86	PPb		98
74)	BROMOFORM	15.705	173	12848	5.22	PPb		95
75)	ISOPROPYLBENZENE	15.810	105	80192	5.35	PPb		98
76)	BROMOBENZENE	16.234	156	20380	5.64	PPb		90
77)	1,1,2,2-TETRACHLOROETHANE	16.093	83	26869	5.17	PPb		97
78)	TRANS-1,4-DICHLORO-2-B...	16.140	53	7741	5.71	PPb		93
79)	1,2,3-TRICHLOROPROPANE	16.177	110	8105	5.70	PPb	#	75
80)	n-PROPYLBENZENE	16.250	91	94262	5.16	PPb		98
81)	O-CHLOROTOLUENE	16.407	126	19792	5.58	PPb		88
82)	1,3,5-TRIMETHYLBENZENE	16.413	105	68883	5.34	PPb		94
83)	P-CHLOROTOLUENE	16.512	91	59799	5.14	PPb		94
84)	tert-BUTYLBENZENE	16.790	119	58778	5.39	PPb		96
85)	1,2,4-TRIMETHYLBENZENE	16.837	105	71066	5.29	PPb		96
86)	PENTACHLOROETHANE	16.863	167	13097	5.77	PPb		94
87)	sec-BUTYLBENZENE	17.021	105	90968	5.41	PPb		98
88)	p-ISOPROPYLTOLUENE	17.147	119	76423	5.59	PPb		98
89)	M-DICHLOROBENZENE	17.220	146	41695	5.76	PPb		96
90)	P-DICHLOROBENZENE	17.304	146	41889	5.56	PPb		95
91)	n-BUTYLBENZENE	17.587	92	40946	5.48	PPb		99
92)	O-DICHLOROBENZENE	17.723	146	40822	5.49	PPb		99
93)	HEXACHLOROETHANE	18.038	201	11087	5.52	PPb		97

6.3.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51764.D
Acq On : 3 Jan 2011 10:56 am
Operator : mohui
Sample : bs
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:41:43 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.520	155	4625	5.10 PPb	88
95) NITROBENZENE	18.725	77	24481	50.99 PPb	95
96) 1,2,4-TRICHLOROBENZENE	19.412	180	33160	5.84 PPb	97
97) HEXACHLOROBUTADIENE	19.553	225	15291	5.78 PPb	94
98) NAPHTHALENE	19.700	128	94520	5.57 PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.973	180	33271	6.01 PPb	93

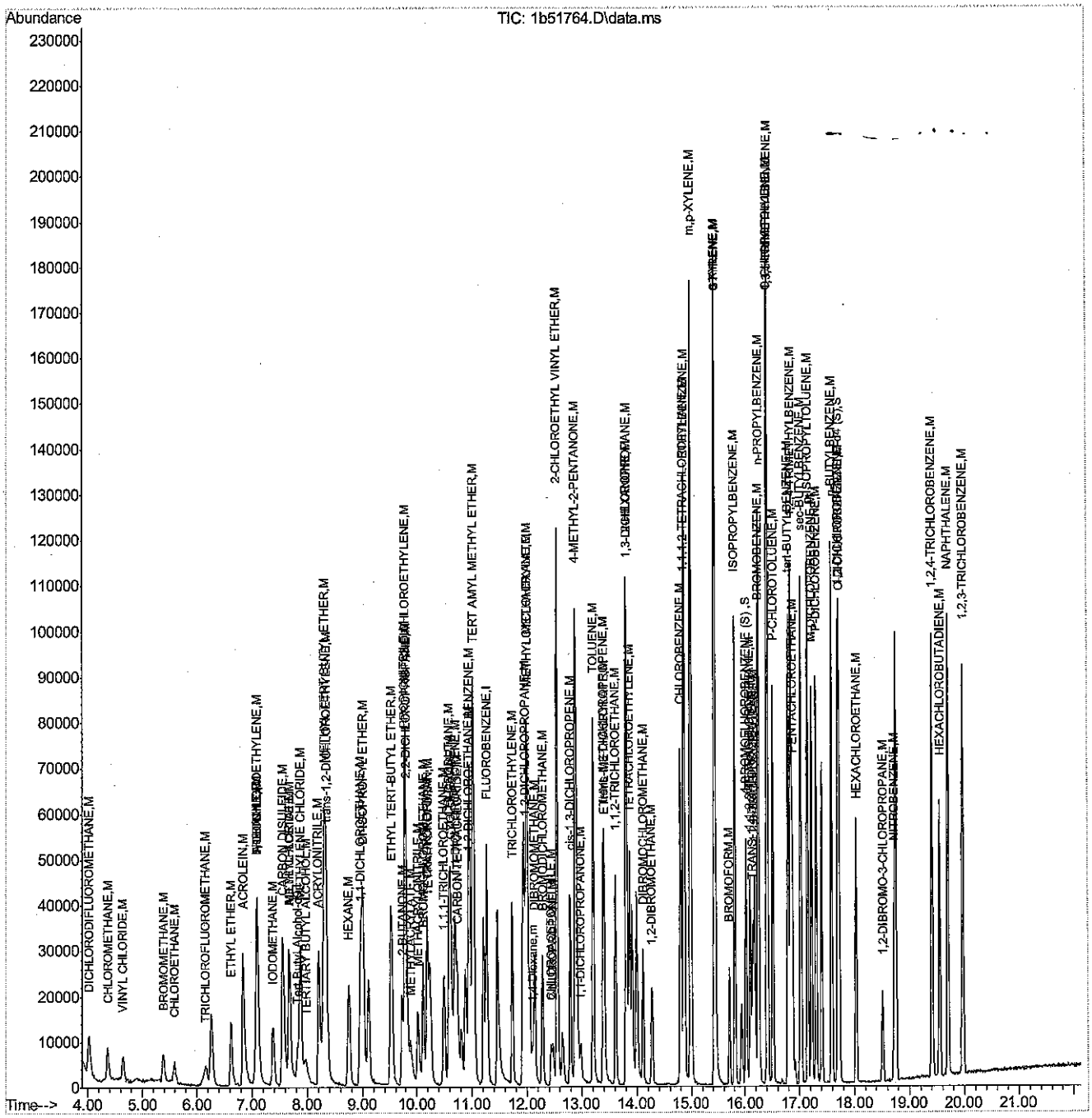
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.3.1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51764.D
Acq On : 3 Jan 2011 10:56 am
Operator : mohui
Sample : bs
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:41:43 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51774.D
Acq On : 3 Jan 2011 4:20 pm
Operator : mohui
Sample : ja65236-1ms
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 03 17:06:27 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.845	65	21042	50.00	PPB		-0.02
4) FLUOROBENZENE	11.274	96	58770	5.00	PPb		-0.01
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.024	95	21442	5.11	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 102.20%				
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23840	5.62	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 112.40%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.982	59	15328	29.80	PPb		92
3) 1,4-Dioxane	12.118	88	5559	153.85	PPB		86
7) DICHLORODIFLUOROMETHANE	4.034	85	6104	1.40	PPb		98
8) CHLOROMETHANE	4.369	50	10183	1.78	PPb		95
9) VINYL CHLORIDE	4.652	62	7952	1.77	PPb		97
10) BROMOMETHANE	5.381	94	5220	1.79	PPb		98
11) CHLOROETHANE	5.596	64	4693	1.75	PPb		92
12) TRICHLOROFLUOROMETHANE	6.168	101	7105	1.74	PPb		89
13) ETHYL ETHER	6.634	45	9460	3.88	PPb		98
14) ACROLEIN	6.849	56	42793	44.73	PPb		100
15) 1,1-DICHLOROETHYLENE	7.106	96	13381	4.69	PPb		97
16) FREON 113	7.111	151	8331	4.88	PPb		88
17) ACETONE	7.111	58	6662	18.53	PPb		88
18) IODOMETHANE	7.394	142	22717	4.99	PPb		98
19) CARBON DISULFIDE	7.567	76	42336	4.01	PPb		99
20) METHYL ACETATE	7.699	74	3394	5.01	PPb	#	1
21) ALLYL CHLORIDE	7.688	76	8176	4.34	PPb		94
22) METHYLENE CHLORIDE	7.893	84	18121	4.40	PPb		95
23) ACRYLONITRILE	8.218	53	37944	22.30	PPb		96
24) METHYL TERT BUTYL ETHER	8.322	73	54439	4.83	PPb		98
25) trans-1,2-DICHLOROETHY...	8.359	61	23561	5.15	PPb		97
26) HEXANE	8.758	57	14509	4.44	PPb		96
27) 1,1-DICHLOROETHANE	8.973	63	29771	5.18	PPb		99
28) DI-ISOPROPYL ETHER	9.020	45	55369	4.69	PPb		90
29) ETHYL TERT-BUTYL ETHER	9.534	59	58403	4.99	PPb		97
30) 2-BUTANONE	9.738	72	8711	19.42	PPb		91
31) 2,2-DICHLOROPROPANE	9.806	77	24883	5.51	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.790	96	20526	5.50	PPb		95
33) PROPIONITRILE	9.785	54	33352	48.62	PPb		95
34) METHYLACRYLATE	9.895	55	15931	4.50	PPb		100
35) METHACRYLONITRILE	10.021	41	11742	4.82	PPb		95
36) BROMOCHLOROMETHANE	10.121	128	8993	5.56	PPb		87
37) CHLOROFORM	10.189	83	30511	5.46	PPb		98
38) TETRAHYDROFURAN	10.199	42	6642	3.71	PPb		91
39) 1,1,1-TRICHLOROETHANE	10.498	97	24429	5.66	PPb		99
40) CYCLOHEXANE	10.614	84	23761	5.19	PPb	#	100
41) 1-CHLOROBUTANE	10.598	56	60374	5.07	PPb		97
42) 1,1-DICHLOROPROPENE	10.698	75	22221	5.42	PPb		95
43) CARBON TETRACHLORIDE	10.739	117	21147	6.03	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51774.D
Acq On : 3 Jan 2011 4:20 pm
Operator : mohui
Sample : ja65236-1ms
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 03 17:06:27 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,2-DICHLOROETHANE	10.944	62	23629	5.53	PPb		98
45) BENZENE	10.965	78	67234	5.24	PPb		99
46) TERT AMYL METHYL ETHER	11.033	73	58867	5.10	PPB		99
47) TRICHLOROETHYLENE	11.741	95	19236	6.36	PPb		98
48) METHYLCYCLOHEXANE	12.014	83	21038	4.56	PPb		97
49) METHYL METHACRYLATE	12.019	69	17318	4.43	PPb		88
50) 1,2-DICHLOROPROPANE	11.987	63	18957	5.40	PPb		97
51) DIBROMOMETHANE	12.150	93	11704	5.70	PPb		97
52) BROMODICHLOROMETHANE	12.297	83	22439	5.33	PPb		99
53) CHLOROACETONITRILE	12.449	75	6352	26.17	PPb		97
54) 2-NITROPROPANE	12.475	41	5669	5.36	PPb		93
55) 2-CHLOROETHYL VINYL ETHER	12.664	63	204	0.08	PPb	#	46
56) cis-1,3-DICHLOROPROPENE	12.800	75	29284	5.32	PPb		97
57) 4-METHYL-2-PENTANONE	12.884	58	33127	18.97	PPb		95
58) 1,1-DICHLOROPROPANONE	12.989	43	6631	5.01	PPb		97
59) TOLUENE	13.214	92	41980	5.56	PPb		99
60) trans-1,3-DICHLOROPROPENE	13.392	75	27250	5.22	PPb		99
61) ETHYL METHACRYLATE	13.413	69	23263	4.52	PPb		94
62) 1,1,2-TRICHLOROETHANE	13.618	83	14661	5.40	PPb		95
63) 1,3-DICHLOROPROPANE	13.817	76	30296	5.59	PPb		95
64) 2-HEXANONE	13.807	58	32145	19.06	PPb		97
65) TETRACHLOROETHYLENE	13.875	166	89238	29.92	PPb		97
66) DIBROMOCHLOROMETHANE	14.111	129	17300	5.40	PPb		95
67) 1,2-DIBROMOETHANE	14.273	107	17548	5.65	PPb		97
68) CHLOROBENZENE	14.803	112	49548	5.93	PPb		96
69) 1,1,1,2-TETRACHLOROETHANE	14.861	131	18346	5.95	PPb		98
70) ETHYLBENZENE	14.871	91	84280	5.69	PPb		96
71) m,p-XYLENE	14.986	106	66392	11.79	PPb		100
72) o-XYLENE	15.443	106	33659	5.95	PPb		93
73) STYRENE	15.448	104	47683	4.94	PPb		97
74) BROMOFORM	15.710	173	12446	5.12	PPb		98
75) ISOPROPYLBENZENE	15.815	105	85913	5.80	PPb		98
76) BROMOBENZENE	16.234	156	21606	6.06	PPb		93
77) 1,1,2,2-TETRACHLOROETHANE	16.093	83	27736	5.41	PPb		99
78) TRANS-1,4-DICHLORO-2-B...	16.140	53	5969	4.46	PPb		97
79) 1,2,3-TRICHLOROPROPANE	16.177	110	8244	5.87	PPb	#	82
80) n-PROPYLBENZENE	16.255	91	103589	5.75	PPb		97
81) O-CHLOROTOLUENE	16.412	126	21038	6.01	PPb		89
82) 1,3,5-TRIMETHYLBENZENE	16.412	105	72589	5.70	PPb		99
83) P-CHLOROTOLUENE	16.512	91	65262	5.68	PPb		95
84) tert-BUTYLBENZENE	16.795	119	63053	5.86	PPb		97
85) 1,2,4-TRIMETHYLBENZENE	16.837	105	72954	5.50	PPb		96
86) PENTACHLOROETHANE	16.869	167	12890	5.76	PPb		95
87) sec-BUTYLBENZENE	17.026	105	95352	5.74	PPb		98
88) p-ISOPROPYLTOLUENE	17.146	119	77053	5.71	PPb		98
89) M-DICHLOROBENZENE	17.220	146	42822	5.99	PPb		98
90) P-DICHLOROBENZENE	17.309	146	44726	6.01	PPb		97
91) n-BUTYLBENZENE	17.587	92	41859	5.68	PPb		99
92) O-DICHLOROBENZENE	17.723	146	43728	5.96	PPb		97
93) HEXACHLOROETHANE	18.038	201	11178	5.64	PPb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51774.D
Acq On : 3 Jan 2011 4:20 pm
Operator : mohui
Sample : ja65236-1ms
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 03 17:06:27 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.520	155	4803	5.37	PPb	91
95) NITROBENZENE	18.730	77	16799	35.45	PPb	96
96) 1,2,4-TRICHLOROBENZENE	19.417	180	33920	6.05	PPb	95
97) HEXACHLOROBUTADIENE	19.553	225	15501	5.94	PPb	95
98) NAPHTHALENE	19.705	128	90859	5.42	PPb	98
99) 1,2,3-TRICHLOROBENZENE	19.972	180	33287	6.10	PPb	100

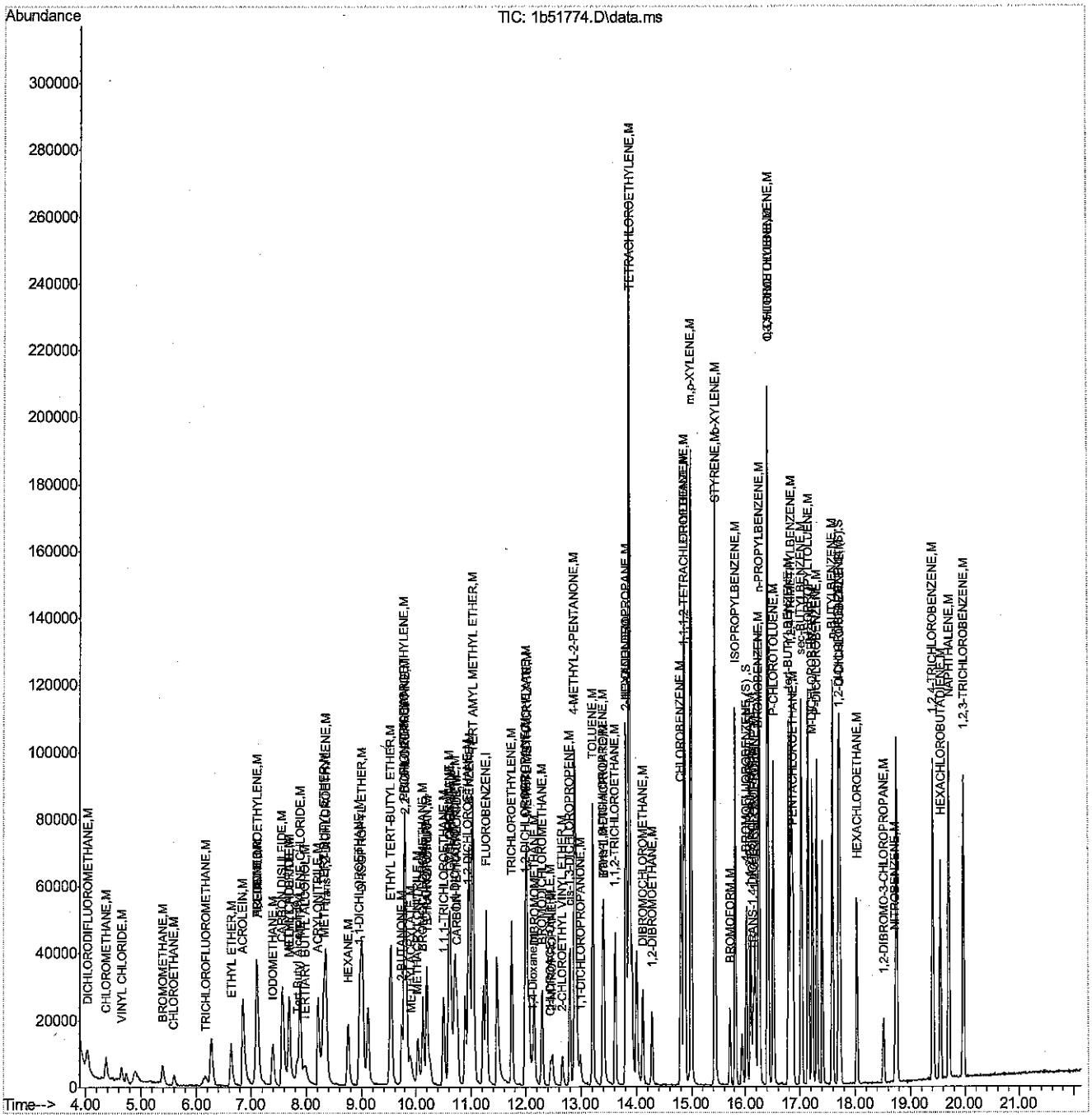
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.4.1 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51774.D
Acq On : 3 Jan 2011 4:20 pm
Operator : mohui
Sample : ja65236-1ms
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jan 03 17:06:27 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51775.D
Acq On : 3 Jan 2011 4:52 pm
Operator : mohui
Sample : ja65236-1msd
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 08:33:03 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.840	65	21340	50.00	PPB		-0.02
4) FLUOROBENZENE	11.274	96	58595	5.00	PPb		-0.01
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	21256	5.08	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.702	152	23265	5.50	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 110.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.976	59	16141	30.94	PPb		92
3) 1,4-Dioxane	12.118	88	6052	165.15	PPB		90
7) DICHLORODIFLUOROMETHANE	4.018	85	6860	1.57	PPb		98
8) CHLOROMETHANE	4.374	50	11390	2.00	PPb		96
9) VINYL CHLORIDE	4.647	62	8546	1.91	PPb		97
10) BROMOMETHANE	5.386	94	5920	2.04	PPb		96
11) CHLOROETHANE	5.601	64	5179	1.94	PPb		94
12) TRICHLOROFLUOROMETHANE	6.173	101	7554	1.86	PPb		98
13) ETHYL ETHER	6.634	45	9848	4.05	PPb		97
14) ACROLEIN	6.844	56	44004	46.13	PPb		100
15) 1,1-DICHLOROETHYLENE	7.101	96	14103	4.95	PPb		94
16) FREON 113	7.096	151	9213	5.42	PPb		96
17) ACETONE	7.111	58	6805	18.99	PPb		100
18) IODOMETHANE	7.389	142	24294	5.35	PPb		99
19) CARBON DISULFIDE	7.567	76	43818	4.16	PPb		99
20) METHYL ACETATE	7.683	74	3518	5.19	PPb	#	79
21) ALLYL CHLORIDE	7.693	76	8506	4.53	PPb	#	84
22) METHYLENE CHLORIDE	7.887	84	18656	4.54	PPb		97
23) ACRYLONITRILE	8.212	53	38492	22.68	PPb		98
24) METHYL TERT BUTYL ETHER	8.322	73	54926	4.89	PPb		100
25) trans-1,2-DICHLOROETHY...	8.359	61	24653	5.41	PPb		97
26) HEXANE	8.763	57	15331	4.70	PPb		95
27) 1,1-DICHLOROETHANE	8.967	63	31015	5.41	PPb		97
28) DI-ISOPROPYL ETHER	9.014	45	57740	4.91	PPb		97
29) ETHYL TERT-BUTYL ETHER	9.534	59	60511	5.18	PPb		96
30) 2-BUTANONE	9.738	72	8630	19.30	PPb		89
31) 2,2-DICHLOROPROPANE	9.801	77	25979	5.77	PPb		96
32) cis-1,2-DICHLOROETHYLENE	9.790	96	21759	5.85	PPb		97
33) PROPIONITRILE	9.780	54	33672	49.23	PPb		96
34) METHYLACRYLATE	9.895	55	14954	4.24	PPb		100
35) METHACRYLONITRILE	10.021	41	11722	4.83	PPb		92
36) BROMOCHLOROMETHANE	10.115	128	9418	5.84	PPb		85
37) CHLOROFORM	10.189	83	31400	5.64	PPb		93
38) TETRAHYDROFURAN	10.199	42	6784	3.80	PPb		90
39) 1,1,1-TRICHLOROETHANE	10.503	97	26307	6.12	PPb		99
40) CYCLOHEXANE	10.619	84	25358	5.56	PPb	#	100
41) 1-CHLOROBUTANE	10.598	56	62901	5.30	PPb		95
42) 1,1-DICHLOROPROPENE	10.703	75	22740	5.57	PPb		97
43) CARBON TETRACHLORIDE	10.745	117	22112	6.32	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51775.D
Acq On : 3 Jan 2011 4:52 pm
Operator : mohui
Sample : ja65236-1msd
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 08:33:03 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,2-DICHLOROETHANE	10.944	62	23796	5.59	PPb		97
45)	BENZENE	10.960	78	69880	5.46	PPb		98
46)	TERT AMYL METHYL ETHER	11.033	73	61662	5.35	PPB		99
47)	TRICHLOROETHYLENE	11.741	95	20199	6.70	PPb		95
48)	METHYLCYCLOHEXANE	12.019	83	22948	4.99	PPb	#	73
49)	METHYL METHACRYLATE	12.019	69	18371	4.71	PPb		91
50)	1,2-DICHLOROPROPANE	11.987	63	19498	5.57	PPb		97
51)	DIBROMOMETHANE	12.150	93	11692	5.71	PPb		97
52)	BROMODICHLOROMETHANE	12.291	83	23148	5.52	PPb		92
53)	CHLOROACETONITRILE	12.449	75	6794	28.08	PPb		98
54)	2-NITROPROPANE	12.480	41	5657	5.36	PPb		98
55)	2-CHLOROETHYL VINYL ETHER	12.664	63	297	0.11	PPb	#	46
56)	cis-1,3-DICHLOROPROPENE	12.795	75	29559	5.38	PPb		98
57)	4-METHYL-2-PENTANONE	12.884	58	33172	19.06	PPb		96
58)	1,1-DICHLOROPROPANONE	12.989	43	6386	4.84	PPb		98
59)	TOLUENE	13.214	92	44270	5.88	PPb		96
60)	trans-1,3-DICHLOROPROPENE	13.392	75	28335	5.44	PPb		92
61)	ETHYL METHACRYLATE	13.413	69	24112	4.70	PPb		98
62)	1,1,2-TRICHLOROETHANE	13.618	83	15077	5.57	PPb		96
63)	1,3-DICHLOROPROPANE	13.817	76	30910	5.72	PPb		94
64)	2-HEXANONE	13.812	58	31647	18.83	PPb		95
65)	TETRACHLOROETHYLENE	13.870	166	92971	31.26	PPb		98
66)	DIBROMOCHLOROMETHANE	14.116	129	17511	5.48	PPb		97
67)	1,2-DIBROMOETHANE	14.273	107	18214	5.88	PPb		95
68)	CHLOROBENZENE	14.803	112	51240	6.15	PPb		93
69)	1,1,1,2-TETRACHLOROETHANE	14.860	131	19062	6.20	PPb		93
70)	ETHYLBENZENE	14.871	91	89017	6.02	PPb		98
71)	m,p-XYLENE	14.992	106	69276	12.34	PPb		94
72)	o-XYLENE	15.437	106	34442	6.11	PPb		99
73)	STYRENE	15.442	104	49291	5.12	PPb		100
74)	BROMOFORM	15.710	173	12196	5.04	PPb		100
75)	ISOPROPYLBENZENE	15.815	105	91375	6.19	PPb		100
76)	BROMOBENZENE	16.234	156	22185	6.24	PPb		92
77)	1,1,2,2-TETRACHLOROETHANE	16.098	83	27983	5.47	PPb		96
78)	TRANS-1,4-DICHLORO-2-B...	16.140	53	6266	4.70	PPb		95
79)	1,2,3-TRICHLOROPROPANE	16.171	110	8106	5.79	PPb		99
80)	n-PROPYLBENZENE	16.255	91	110014	6.12	PPb		98
81)	O-CHLOROTOLUENE	16.412	126	22224	6.37	PPb	#	78
82)	1,3,5-TRIMETHYLBENZENE	16.412	105	75195	5.92	PPb		95
83)	P-CHLOROTOLUENE	16.512	91	67179	5.87	PPb		97
84)	tert-BUTYLBENZENE	16.790	119	66270	6.18	PPb		95
85)	1,2,4-TRIMETHYLBENZENE	16.837	105	76865	5.81	PPb		98
86)	PENTACHLOROETHANE	16.869	167	13637	6.11	PPb		93
87)	sec-BUTYLBENZENE	17.021	105	101989	6.16	PPb		100
88)	p-ISOPROPYLTOLUENE	17.146	119	83193	6.19	PPb		97
89)	M-DICHLOROBENZENE	17.220	146	44530	6.25	PPb		97
90)	P-DICHLOROBENZENE	17.309	146	46292	6.24	PPb		98
91)	n-BUTYLBENZENE	17.587	92	44724	6.08	PPb		97
92)	O-DICHLOROBENZENE	17.723	146	45802	6.26	PPb		98
93)	HEXACHLOROETHANE	18.032	201	11451	5.80	PPb		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51775.D
Acq On : 3 Jan 2011 4:52 pm
Operator : mohui
Sample : ja65236-1msd
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 08:33:03 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.520	155	4756	5.33 PPb	96
95) NITROBENZENE	18.730	77	17540	37.12 PPb	96
96) 1,2,4-TRICHLOROBENZENE	19.417	180	34579	6.19 PPb	97
97) HEXACHLOROBUTADIENE	19.553	225	16918	6.50 PPb	97
98) NAPHTHALENE	19.705	128	94938	5.68 PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.972	180	34155	6.27 PPb	96

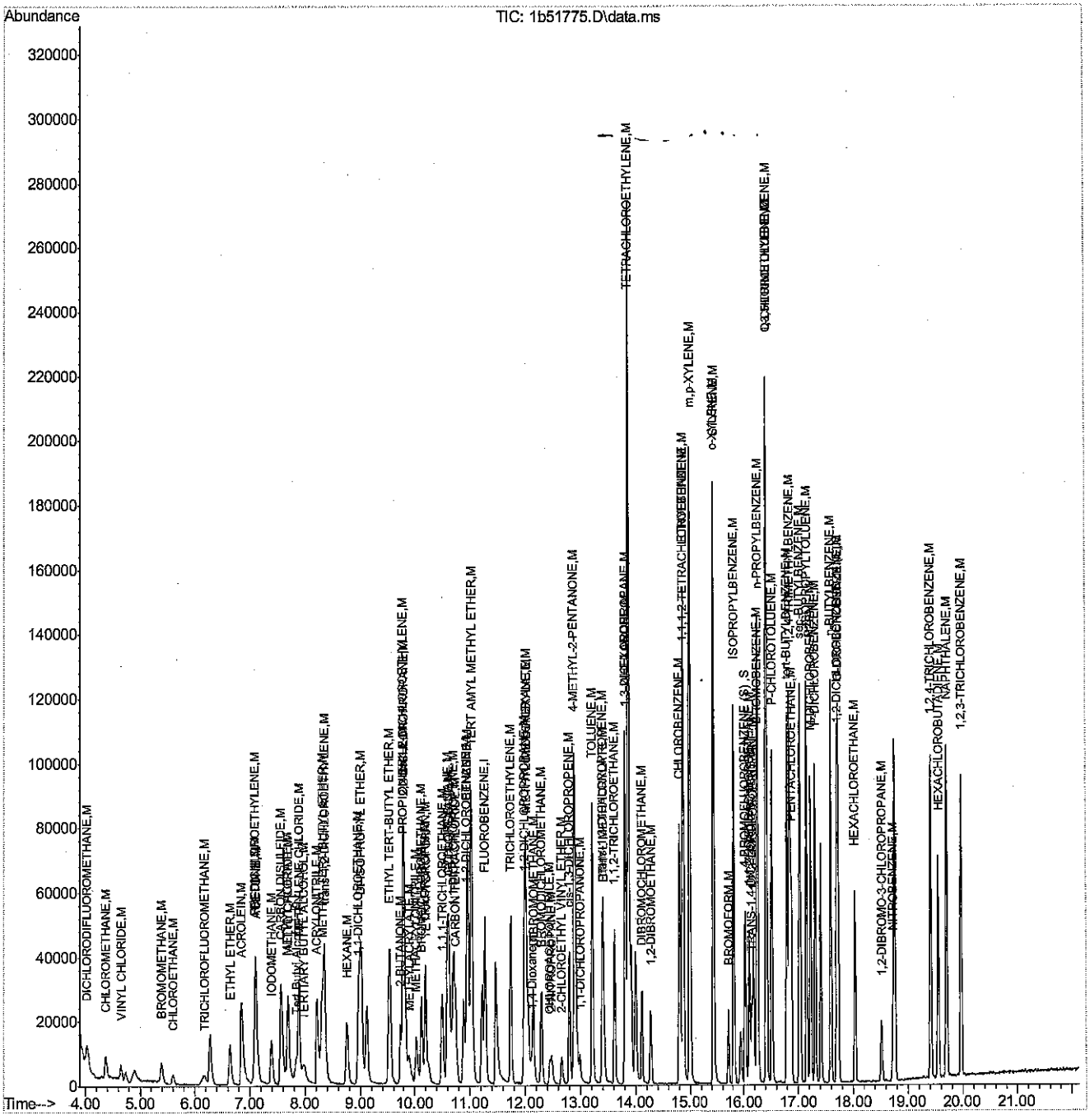
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.4.2 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51775.D
Acq On : 3 Jan 2011 4:52 pm
Operator : mohui
Sample : ja65236-1msd
Misc : MS6794,V1B2368,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 04 08:33:03 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



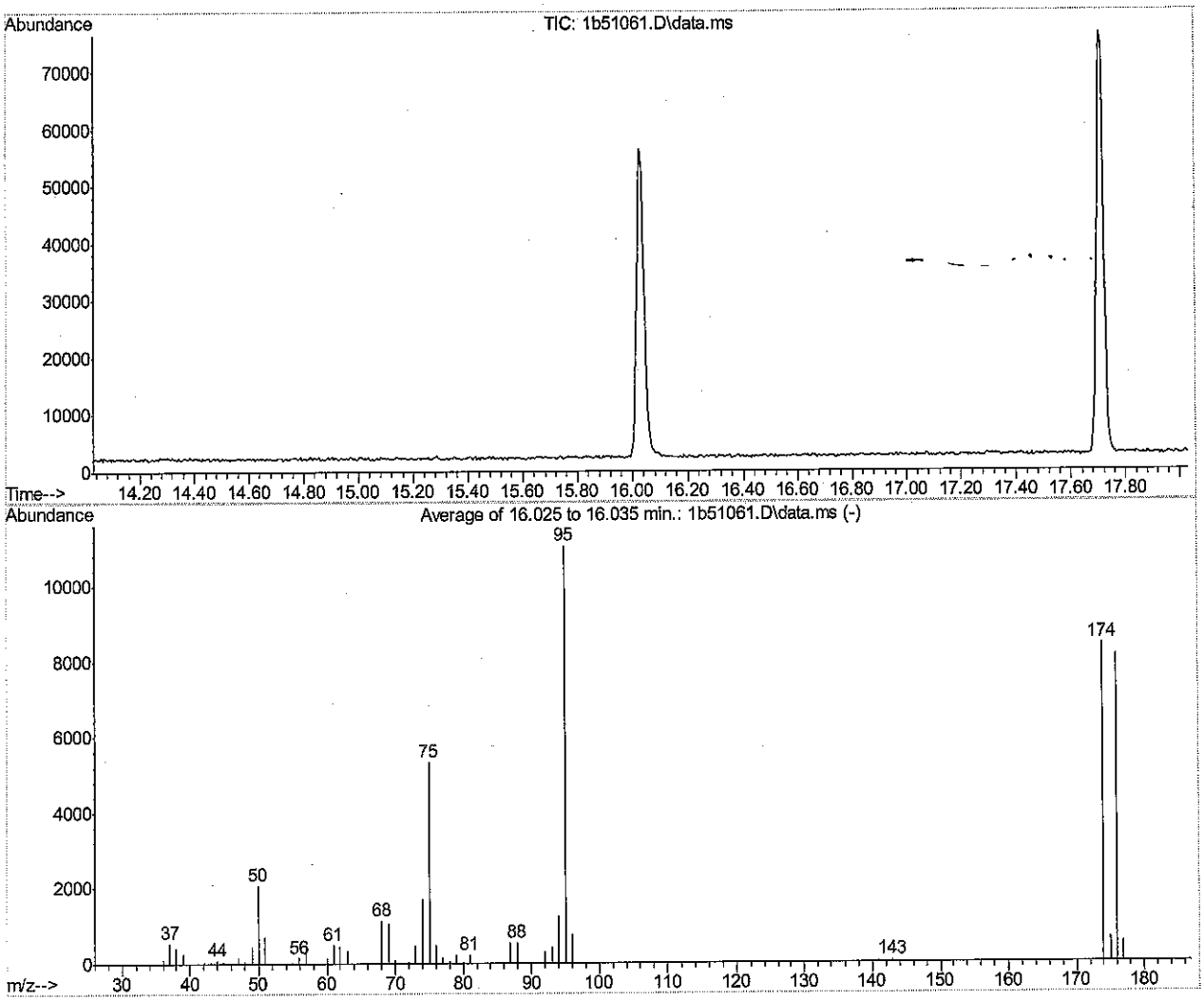
M1B2336.M Tue Jan 04 08:55:24 2011 MS1B

BFB

Data File : C:\msdchem\1\DATA\1b51061.D
Acq On : 8 Dec 2010 7:03 pm
Sample : bfb
Misc : MS5663,V1B2336,W,,,,1
MS Integration Params: rteint.p

Vial: 1
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um



AutoFind: Scans 2315, 2316, 2317; Background Corrected with Scan 2307

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.8	2082	PASS
75	95	30	80	48.3	5341	PASS
95	95	100	100	100.0	11064	PASS
96	95	5	9	6.8	755	PASS
173	174	0.00	2	0.5	41	PASS
174	95	50	120	76.3	8438	PASS
175	174	5	9	7.7	647	PASS
176	174	95	101	96.2	8119	PASS
177	176	5	9	6.7	541	PASS

1b51061.D M1B2336.M Thu Dec 09 09:04:21 2010 MS1B

Average of 16.025 to 16.035 min.: 1b51061.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	108	50.00	2082	70.00	75	86.95	540
37.00	553	51.00	697	72.00	37	87.95	549
38.00	437	55.00	43	73.00	483	92.00	302
39.05	250	55.95	166	74.00	1701	93.00	432
42.05	57	57.05	303	75.05	5341	94.05	1241
43.00	60	60.05	145	76.05	483	95.05	11064
44.00	89	61.00	500	76.95	134	96.05	755
44.90	67	62.00	460	78.00	57	140.95	57
47.00	160	63.05	351	78.90	232	143.00	61
48.00	58	68.00	1147	80.00	31	172.80	41
49.00	465	69.00	1053	80.95	229	174.00	8438

Average of 16.025 to 16.035 min.: 1b51061.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	647						
176.00	8119						
176.95	541						

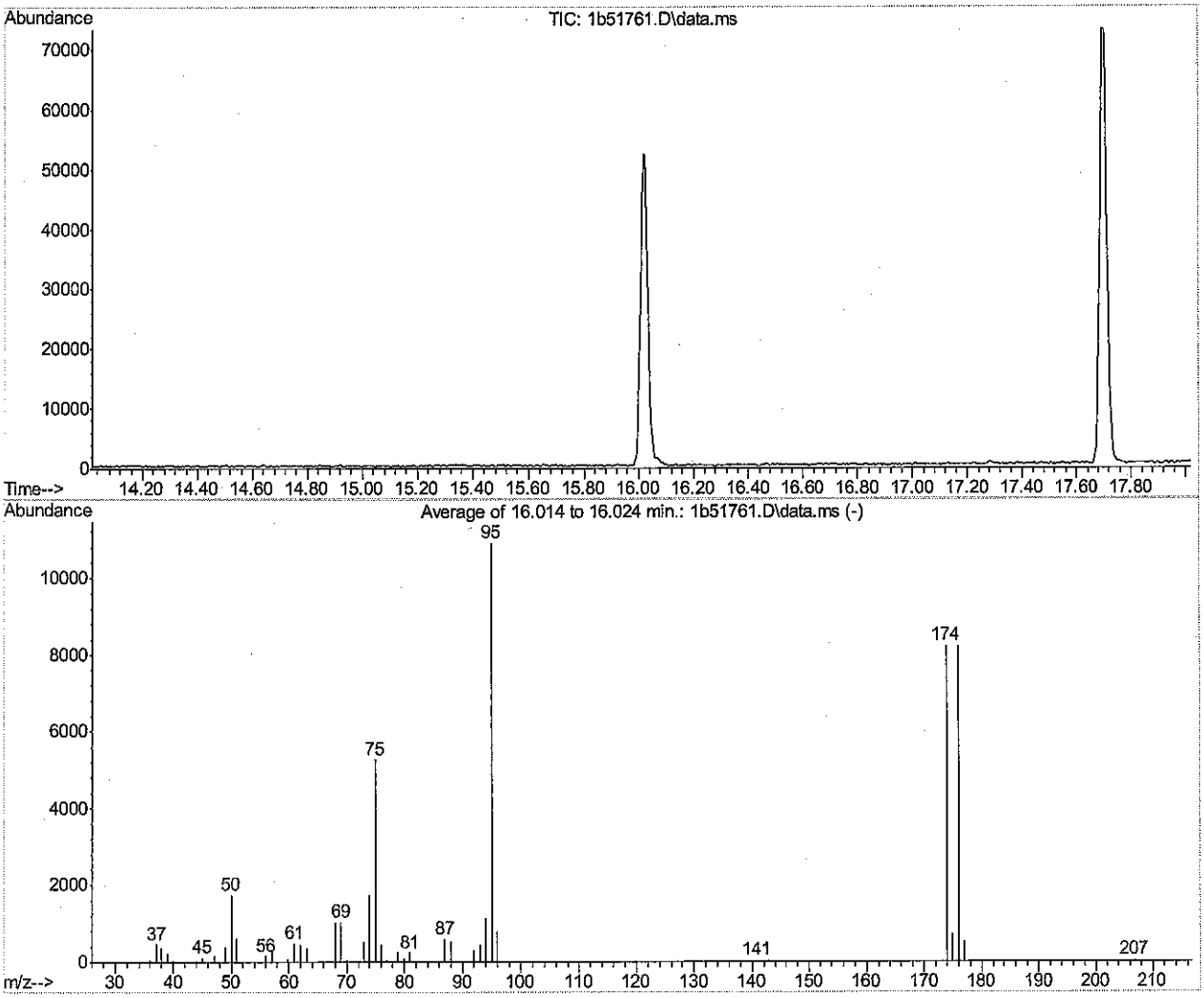
6.5.1

BFB

Data File : C:\msdchem\1\DATA\1b51761.D
Acq On : 3 Jan 2011 9:06 am
Sample : bfb
Misc : MS6764,V1B2368,W,,,,1
MS Integration Params: rteint.p

Vial: 1
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\msdchem\1\METHODS\M1B2336.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um



AutoFind: Scans 2313, 2314, 2315; Background Corrected with Scan 2305

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.0	1743	PASS
75	95	30	80	48.4	5277	PASS
95	95	100	100	100.0	10914	PASS
96	95	5	9	7.4	803	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	75.4	8224	PASS
175	174	5	9	8.9	730	PASS
176	174	95	101	99.9	8215	PASS
177	176	5	9	6.6	542	PASS

1b51761.D M1B2336.M Tue Jan 04 08:19:10 2011 MS1B

Average of 16.014 to 16.024 min.: 1b51761.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	57	55.95	164	75.00	5277	94.00	1138
37.05	473	57.05	269	75.95	462	95.00	10914
38.00	353	59.85	73	76.90	69	96.05	803
39.05	234	60.95	490	77.10	39	140.80	37
40.00	17	61.95	458	78.90	261	141.00	28
43.95	15	63.05	356	79.95	74	142.70	34
45.05	117	68.00	1031	80.95	249	142.90	28
47.05	174	69.00	1048	87.00	587	173.95	8224
49.00	383	70.05	63	88.00	518	174.95	730
50.00	1743	73.00	536	91.95	308	175.95	8215
51.00	605	74.00	1739	92.95	435	176.95	542

Average of 16.014 to 16.024 min.: 1b51761.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
206.80	32						

6.5.2.9

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 12/10/10 04:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:21:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.866	65	24584	50.00	PPB		0.00
4) FLUOROBENZENE	11.285	96	62042	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.030	95	22103	4.99	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.80%				
6) 1,2-DICHLOROBENZENE-d4...	17.708	152	22549	5.03	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.60%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	8.013	59	1650	2.75	PPb		80
3) 1,4-Dioxane	12.150	88	390	9.60	PPB	#	73
7) DICHLORODIFLUOROMETHANE	4.034	85	1403	0.30	PPb		80
8) CHLOROMETHANE	4.380	50	3134	0.52	PPb		86
9) VINYL CHLORIDE	4.652	62	1990	0.42	PPb		91
10) BROMOMETHANE	5.397	94	1526	0.50	PPb		89
11) CHLOROETHANE	5.607	64	1298	0.46	PPb		97
12) TRICHLOROFLUOROMETHANE	6.173	101	1224m	0.28	PPb		
13) ETHYL ETHER	6.666	45	1185	0.43	PPb		83
14) ACROLEIN	6.896	56	5615	5.56	PPb		92
15) 1,1-DICHLOROETHYLENE	7.117	96	1595	0.53	PPb		86
16) FREON 113	7.111	151	303	0.17	PPb	#	19
17) ACETONE	7.185	58	616	1.67	PPb		95
18) IODOMETHANE	7.405	142	2310	0.48	PPb		95
19) CARBON DISULFIDE	7.583	76	5098	0.46	PPb		90
21) ALLYL CHLORIDE	7.704	76	878	0.44	PPb	#	51
22) METHYLENE CHLORIDE	7.908	84	2368	0.54	PPb		95
23) ACRYLONITRILE	8.275	53	4017	2.24	PPb		85
24) METHYL TERT BUTYL ETHER	8.343	73	6086	0.51	PPb		97
25) trans-1,2-DICHLOROETHY...	8.375	61	2312	0.48	PPb		83
26) HEXANE	8.779	57	1158	0.34	PPb		90
27) 1,1-DICHLOROETHANE	8.983	63	2787	0.46	PPb		98
28) DI-ISOPROPYL ETHER	9.041	45	6567	0.53	PPb		90
29) ETHYL TERT-BUTYL ETHER	9.555	59	6288	0.51	PPb		94
30) 2-BUTANONE	9.785	72	641	1.42	PPb		59
31) 2,2-DICHLOROPROPANE	9.833	77	2565	0.54	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.812	96	2279	0.58	PPb		76
33) PROPIONITRILE	9.838	54	3380	4.67	PPb		81
35) METHACRYLONITRILE	10.058	41	1405	0.50	PPb		85
36) BROMOCHLOROMETHANE	10.131	128	775	0.45	PPb		75
37) CHLOROFORM	10.205	83	3192	0.54	PPb		97
38) TETRAHYDROFURAN	10.226	42	1709	0.85	PPb		86
39) 1,1,1-TRICHLOROETHANE	10.514	97	2078	0.46	PPb		91
40) CYCLOHEXANE	10.624	84	1978	0.41	PPb	#	100
41) 1-CHLOROBUTANE	10.614	56	5505	0.44	PPb		87
42) 1,1-DICHLOROPROPENE	10.713	75	1887	0.44	PPb		89
43) CARBON TETRACHLORIDE	10.745	117	1603	0.43	PPb		91
44) 1,2-DICHLOROETHANE	10.965	62	2015	0.45	PPb		92
45) BENZENE	10.976	78	6623	0.49	PPb		93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:21:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46)	TERT AMYL METHYL ETHER	11.049	73	7078	0.58	PPB	#	49
47)	TRICHLOROETHYLENE	11.751	95	1499	0.47	PPb		94
48)	METHYLCYCLOHEXANE	12.024	83	1693	0.35	PPb	#	76
49)	METHYL METHACRYLATE	12.045	69	1874	0.45	PPb	#	53
50)	1,2-DICHLOROPROPANE	12.003	63	1774	0.48	PPb		92
51)	DIBROMOMETHANE	12.160	93	1032	0.48	PPb		91
52)	BROMODICHLOROMETHANE	12.302	83	2214	0.50	PPb		92
53)	CHLOROACETONITRILE	12.480	75	565	2.21	PPb	#	70
54)	2-NITROPROPANE	12.496	41	718	0.64	PPb		77
55)	2-CHLOROETHYL VINYL ETHER	12.575	63	6773	2.41	PPb		96
56)	cis-1,3-DICHLOROPROPENE	12.811	75	2831	0.49	PPb		95
57)	4-METHYL-2-PENTANONE	12.905	58	3934	2.13	PPb		97
58)	1,1-DICHLOROPROPANONE	13.005	43	461	0.33	PPb		82
59)	TOLUENE	13.230	92	3979	0.50	PPb		88
60)	trans-1,3-DICHLOROPROPENE	13.414	75	2686	0.49	PPb		97
61)	ETHYL METHACRYLATE	13.434	69	2815	0.52	PPb		94
62)	1,1,2-TRICHLOROETHANE	13.634	83	1495	0.52	PPb		94
63)	1,3-DICHLOROPROPANE	13.833	76	2866	0.50	PPb		96
64)	2-HEXANONE	13.833	58	3740	2.10	PPb		95
65)	TETRACHLOROETHYLENE	13.885	166	1431	0.45	PPb		89
66)	DIBROMOCHLOROMETHANE	14.127	129	1608	0.48	PPb		96
67)	1,2-DIBROMOETHANE	14.289	107	1531	0.47	PPb		90
68)	CHLOROBENZENE	14.819	112	4440	0.50	PPb		92
69)	1,1,1,2-TETRACHLOROETHANE	14.871	131	1599	0.49	PPb		93
70)	ETHYLBENZENE	14.882	91	7656	0.49	PPb		97
71)	m,p-XYLENE	15.002	106	5796	0.97	PPb		95
72)	o-XYLENE	15.448	106	2792	0.47	PPb		97
73)	STYRENE	15.453	104	4948	0.49	PPb		94
74)	BROMOFORM	15.726	173	1343	0.52	PPb		95
75)	ISOPROPYLBENZENE	15.825	105	7463	0.48	PPb		98
76)	BROMOBENZENE	16.245	156	1843	0.49	PPb		97
77)	1,1,2,2-TETRACHLOROETHANE	16.103	83	2812	0.52	PPb		95
78)	TRANS-1,4-DICHLORO-2-B...	16.156	53	697	0.49	PPb		98
79)	1,2,3-TRICHLOROPROPANE	16.187	110	728	0.49	PPb	#	89
80)	n-PROPYLBENZENE	16.266	91	9216	0.48	PPb		99
81)	O-CHLOROTOLUENE	16.418	126	1935	0.52	PPb		98
82)	1,3,5-TRIMETHYLBENZENE	16.423	105	6380	0.47	PPb		97
83)	P-CHLOROTOLUENE	16.523	91	6235	0.51	PPb		97
84)	tert-BUTYLBENZENE	16.801	119	5487	0.48	PPb		96
85)	1,2,4-TRIMETHYLBENZENE	16.848	105	7023	0.50	PPb		85
86)	PENTACHLOROETHANE	16.879	167	1169	0.49	PPb		92
87)	sec-BUTYLBENZENE	17.031	105	8329	0.48	PPb		96
88)	p-ISOPROPYLTOLUENE	17.157	119	6761	0.47	PPb		97
89)	M-DICHLOROBENZENE	17.230	146	3772	0.50	PPb		95
90)	P-DICHLOROBENZENE	17.320	146	3983	0.51	PPb		97
91)	n-BUTYLBENZENE	17.597	92	3526	0.45	PPb		97
92)	O-DICHLOROBENZENE	17.729	146	3981	0.51	PPb		95
93)	HEXACHLOROETHANE	18.038	201	967	0.46	PPb		85
94)	1,2-DIBROMO-3-CHLOROPR...	18.531	155	451	0.48	PPb		98
95)	NITROBENZENE	18.740	77	2627	5.25	PPb		89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:21:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
96) 1,2,4-TRICHLOROBENZENE	19.422	180	2878	0.49 PPb	87
97) HEXACHLOROBUTADIENE	19.558	225	1354	0.49 PPb	97
98) NAPHTHALENE	19.716	128	8350	0.47 PPb	98
99) 1,2,3-TRICHLOROBENZENE	19.983	180	2739	0.48 PPb	95

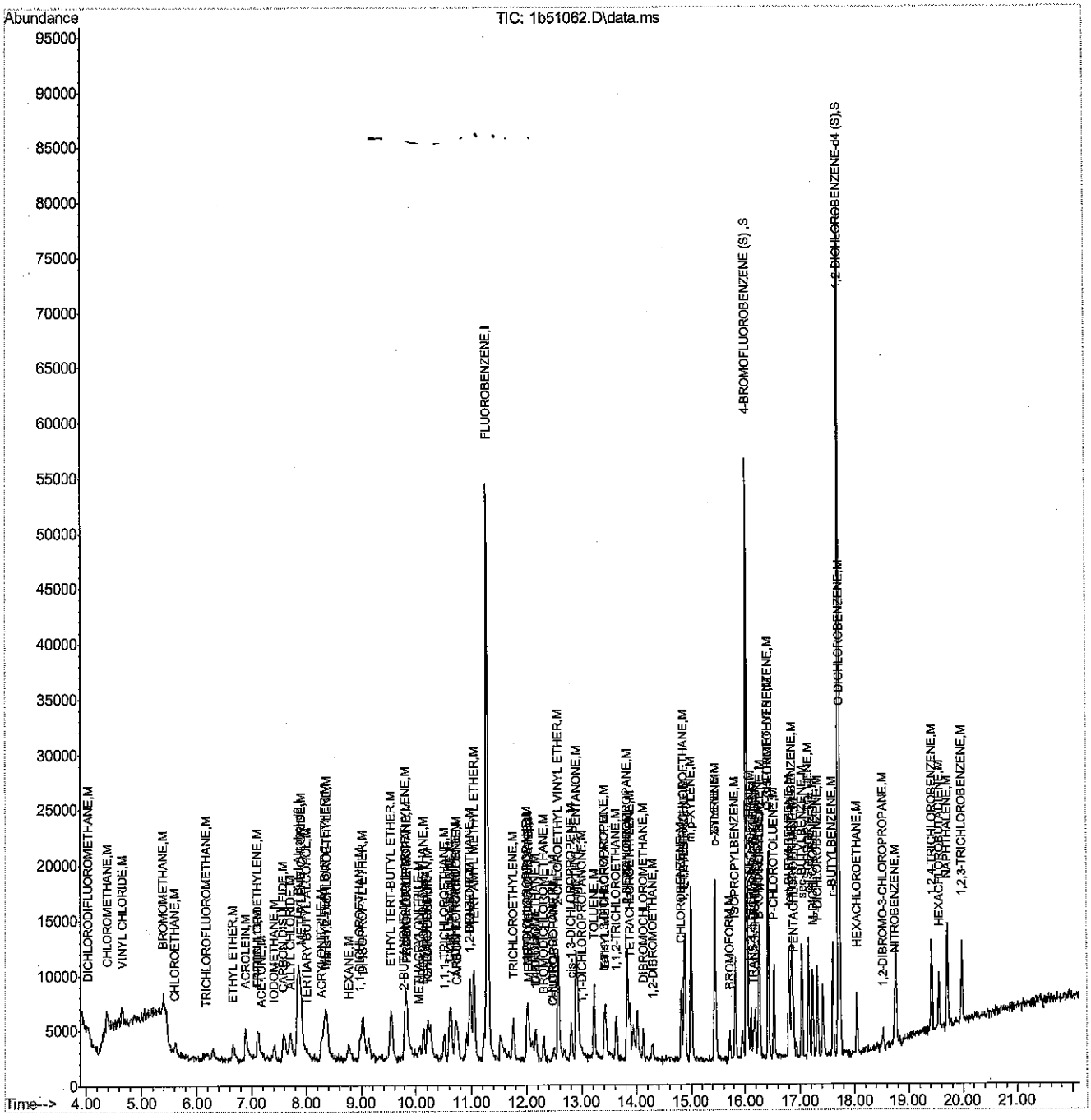
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.1 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 09:21:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration



Manual Integration Approval Summary

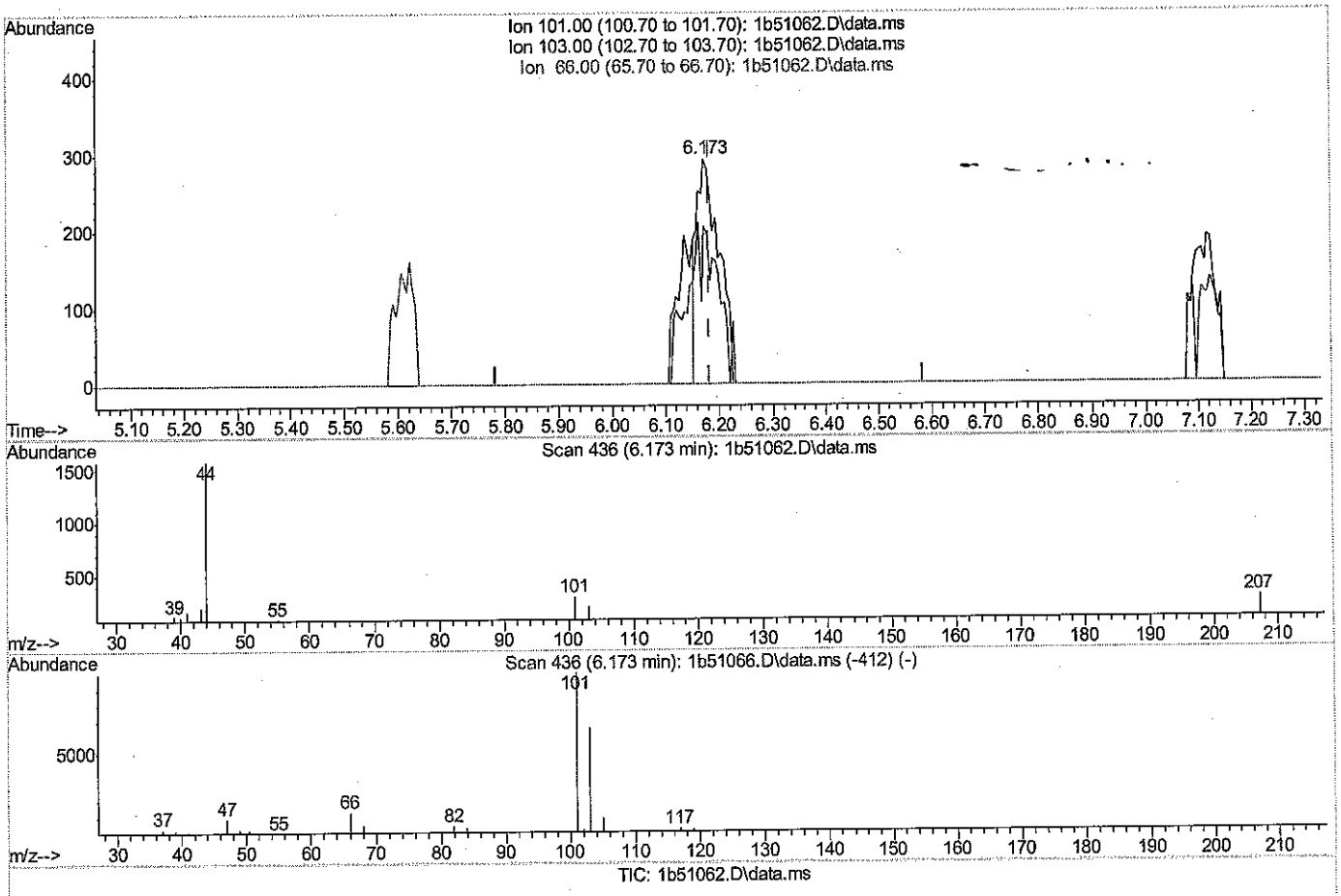
Sample Number:	V1B2336-IC2336	Method:	EPA 524.2 REV 4.1
Lab FileID:	1B51062.D	Analyst approved:	12/09/10 09:51 MoHui Huang
Injection Time:	12/08/10 19:35	Supervisor approved:	12/10/10 04:56 Kanya Veerawat

Parameter	CAS	Sig#	R.T. (min.)	Reason
Trichlorofluoromethane	75-69-4		6.17	Split peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 08:06:40 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration



TIC: 1b51062.D\data.ms

(12) TRICHLOROFLUOROMETHANE (M)

6.173min (-0.010) 0.19PPb

response 829

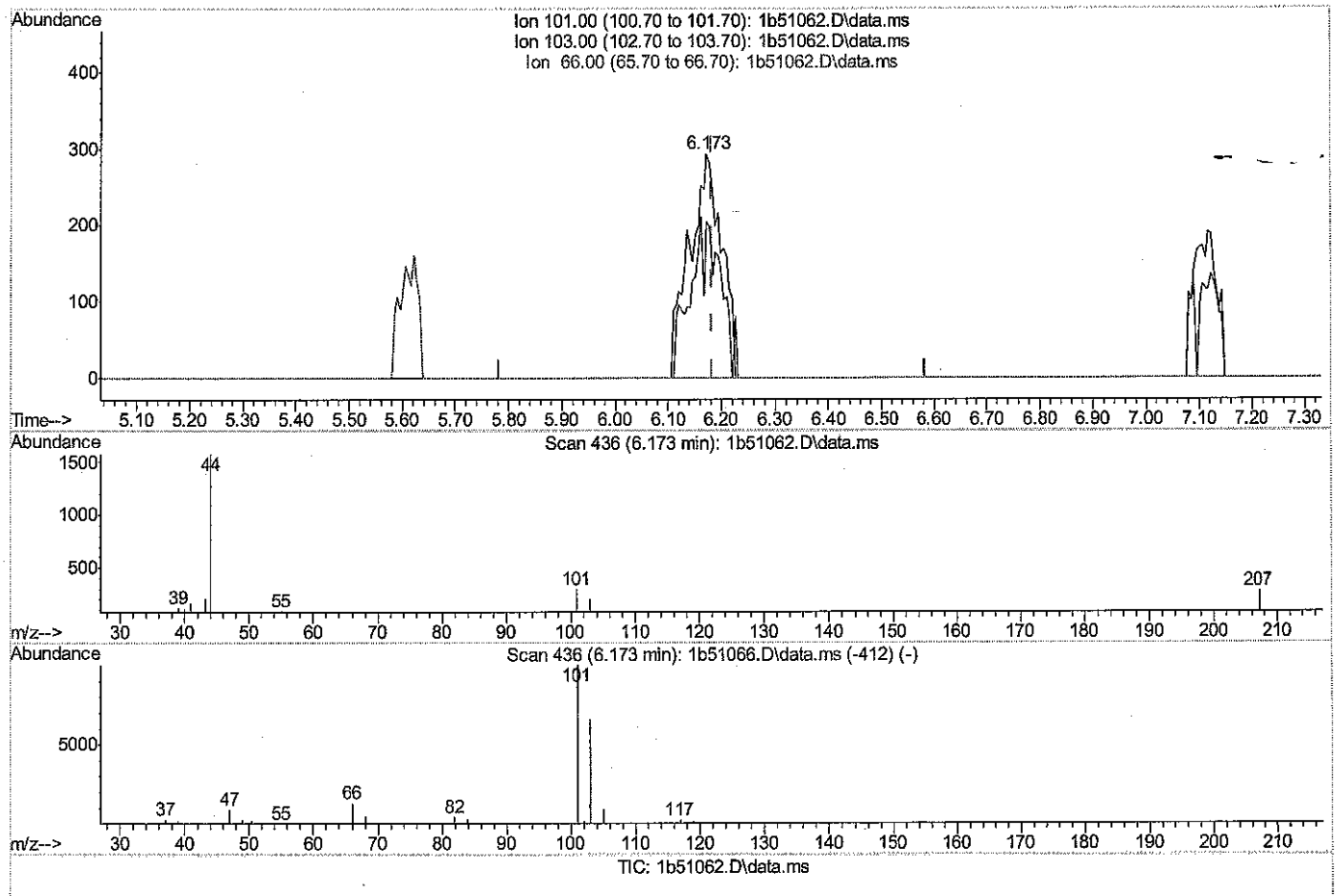
Ion	Exp%	Act%
101.00	100	100
103.00	66.10	69.60
66.00	12.60	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51062.D
Acq On : 8 Dec 2010 7:35 pm
Operator : mohui
Sample : ic2336-0.5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 09 08:06:40 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:51 2010
Response via : Initial Calibration

6.6.13



TIC: 1b51062.D\data.ms

(12) TRICHLOROFLUOROMETHANE (M)

6.173min (-0.010) 0.28PPb m

response 1224

Ion	Exp%	Act%
101.00	100	100
103.00	66.10	69.97
66.00	12.60	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51063.D
Acq On : 8 Dec 2010 8:07 pm
Operator : mohui
Sample : ic2336-1
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 08:20:36 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 08:19:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.866	65	25237	50.00	PPB		0.00
4) FLUOROBENZENE	11.285	96	62590	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.030	95	22256	4.98	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.708	152	22443	4.96	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 99.20%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.992	59	2919	4.73	PPb		91
3) 1,4-Dioxane	12.134	88	973	23.32	PPB		83
7) DICHLORODIFLUOROMETHANE	4.034	85	5094	1.09	PPb		94
8) CHLOROMETHANE	4.380	50	6542	1.08	PPb		97
9) VINYL CHLORIDE	4.647	62	4878	1.02	PPb		95
10) BROMOMETHANE	5.397	94	3281	1.06	PPb		98
11) CHLOROETHANE	5.601	64	3012	1.06	PPb		97
12) TRICHLOROFLUOROMETHANE	6.168	101	4370	1.01	PPb		88
13) ETHYL ETHER	6.655	45	2740	1.05	PPb		88
14) ACROLEIN	6.875	56	10761	10.56	PPb		91
15) 1,1-DICHLOROETHYLENE	7.111	96	3040	1.00	PPb		91
16) FREON 113	7.111	151	1449	0.80	PPb		86
17) ACETONE	7.164	58	1303	3.50	PPb		89
18) IODOMETHANE	7.405	142	4662	0.96	PPb		97
19) CARBON DISULFIDE	7.578	76	10686	0.95	PPb		98
20) METHYL ACETATE	7.751	74	332	0.50	PPb	#	1
21) ALLYL CHLORIDE	7.704	76	2008	1.00	PPb	#	77
22) METHYLENE CHLORIDE	7.903	84	4414	1.01	PPb		97
23) ACRYLONITRILE	8.254	53	8620	4.76	PPb		98
24) METHYL TERT BUTYL ETHER	8.343	73	11910	0.99	PPb		98
25) trans-1,2-DICHLOROETHY...	8.375	61	4579	0.94	PPb		92
26) HEXANE	8.789	57	3443	0.99	PPb		100
27) 1,1-DICHLOROETHANE	8.978	63	5992	0.98	PPb		95
28) DI-ISOPROPYL ETHER	9.036	45	13207	1.05	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.555	59	12101	0.97	PPb		93
30) 2-BUTANONE	9.785	72	1513	3.32	PPb		87
31) 2,2-DICHLOROPROPANE	9.817	77	4846	1.01	PPb		92
32) cis-1,2-DICHLOROETHYLENE	9.812	96	4333	1.09	PPb		79
33) PROPIONITRILE	9.817	54	7291	9.98	PPb		92
34) METHYLACRYLATE	9.937	55	3116	0.89	PPb		100
35) METHACRYLONITRILE	10.047	41	2203	0.85	PPb		91
36) BROMOCHLOROMETHANE	10.137	128	1710	0.99	PPb		91
37) CHLOROFORM	10.205	83	6018	1.01	PPb		98
38) TETRAHYDROFURAN	10.226	42	1983	1.04	PPb		90
39) 1,1,1-TRICHLOROETHANE	10.509	97	4315	0.94	PPb		96
40) CYCLOHEXANE	10.629	84	4789	0.98	PPb	#	100
41) 1-CHLOROBUTANE	10.608	56	11937	0.94	PPb		89
42) 1,1-DICHLOROPROPENE	10.713	75	4034	0.92	PPb		92
43) CARBON TETRACHLORIDE	10.750	117	3482	0.93	PPb		88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51063.D
Acq On : 8 Dec 2010 8:07 pm
Operator : mohui
Sample : ic2336-1
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 08:20:36 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 08:19:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
44) 1,2-DICHLOROETHANE	10.960	62	4336	0.95 PPb		98
45) BENZENE	10.975	78	13066	0.96 PPb		95
46) TERT AMYL METHYL ETHER	11.038	73	11654	0.95 PPB	#	75
47) TRICHLOROETHYLENE	11.751	95	3003	0.93 PPb		86
48) METHYLCYCLOHEXANE	12.024	83	4763	0.97 PPb	#	35
49) METHYL METHACRYLATE	12.040	69	3850	0.92 PPb		70
50) 1,2-DICHLOROPROPANE	11.993	63	3487	0.93 PPb		96
51) DIBROMOMETHANE	12.166	93	2029	0.93 PPb		88
52) BROMODICHLOROMETHANE	12.302	83	4375	0.98 PPb		96
53) CHLOROACETONITRILE	12.470	75	1165	4.51 PPb		94
54) 2-NITROPROPANE	12.496	41	1244	1.06 PPb		97
55) 2-CHLOROETHYL VINYL ETHER	12.569	63	13319	4.70 PPb		98
56) cis-1,3-DICHLOROPROPENE	12.805	75	5630	0.96 PPb		99
57) 4-METHYL-2-PENTANONE	12.900	58	7077	3.81 PPb		97
58) 1,1-DICHLOROPROPANONE	13.005	43	1191	0.85 PPb		82
59) TOLUENE	13.225	92	7321	0.91 PPb		96
60) trans-1,3-DICHLOROPROPENE	13.403	75	5391	0.97 PPb		92
61) ETHYL METHACRYLATE	13.429	69	5276	0.96 PPb		92
62) 1,1,2-TRICHLOROETHANE	13.628	83	2691	0.93 PPb		95
63) 1,3-DICHLOROPROPANE	13.828	76	5560	0.96 PPb		99
64) 2-HEXANONE	13.822	58	6978	3.89 PPb		94
65) TETRACHLOROETHYLENE	13.880	166	2927	0.92 PPb		97
66) DIBROMOCHLOROMETHANE	14.127	129	3330	0.98 PPb		97
67) 1,2-DIBROMOETHANE	14.289	107	3182	0.96 PPb		99
68) CHLOROBENZENE	14.813	112	8559	0.96 PPb		92
69) 1,1,1,2-TETRACHLOROETHANE	14.871	131	3210	0.98 PPb		93
70) ETHYLBENZENE	14.882	91	14862	0.94 PPb		99
71) m,p-XYLENE	14.997	106	11432	1.91 PPb		99
72) o-XYLENE	15.448	106	5825	0.97 PPb		89
73) STYRENE	15.453	104	9728	0.95 PPb		98
74) BROMOFORM	15.726	173	2484	0.96 PPb		90
75) ISOPROPYLBENZENE	15.820	105	14640	0.93 PPb		98
76) BROMOBENZENE	16.245	156	3680	0.97 PPb		89
77) 1,1,2,2-TETRACHLOROETHANE	16.103	83	5455	1.00 PPb		96
78) TRANS-1,4-DICHLORO-2-B...	16.150	53	1361	0.96 PPb		95
79) 1,2,3-TRICHLOROPROPANE	16.182	110	1442	0.96 PPb		89
80) n-PROPYLBENZENE	16.266	91	18418	0.96 PPb		96
81) O-CHLOROTOLUENE	16.418	126	3534	0.95 PPb		91
82) 1,3,5-TRIMETHYLBENZENE	16.423	105	12897	0.95 PPb		94
83) P-CHLOROTOLUENE	16.523	91	12041	0.98 PPb		96
84) tert-BUTYLBENZENE	16.800	119	10649	0.93 PPb		98
85) 1,2,4-TRIMETHYLBENZENE	16.848	105	13366	0.95 PPb		86
86) PENTACHLOROETHANE	16.879	167	2205	0.92 PPb		93
87) sec-BUTYLBENZENE	17.031	105	16302	0.92 PPb		98
88) p-ISOPROPYLTOLUENE	17.157	119	13446	0.94 PPb		98
89) M-DICHLOROBENZENE	17.230	146	7545	0.99 PPb		95
90) P-DICHLOROBENZENE	17.314	146	7558	0.95 PPb		95
91) n-BUTYLBENZENE	17.597	92	7391	0.94 PPb		99
92) O-DICHLOROBENZENE	17.729	146	7660	0.98 PPb		98
93) HEXACHLOROETHANE	18.043	201	1864	0.88 PPb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51063.D
Acq On : 8 Dec 2010 8:07 pm
Operator : mohui
Sample : ic2336-1
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 08:20:36 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 08:19:04 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	946	0.99 PPb	92
95) NITROBENZENE	18.740	77	4393	8.70 PPb	92
96) 1,2,4-TRICHLOROBENZENE	19.422	180	5599	0.94 PPb	97
97) HEXACHLOROBUTADIENE	19.564	225	2583	0.93 PPb	97
98) NAPHTHALENE	19.716	128	16032	0.90 PPb	98
99) 1,2,3-TRICHLOROBENZENE	19.978	180	5484	0.94 PPb	98

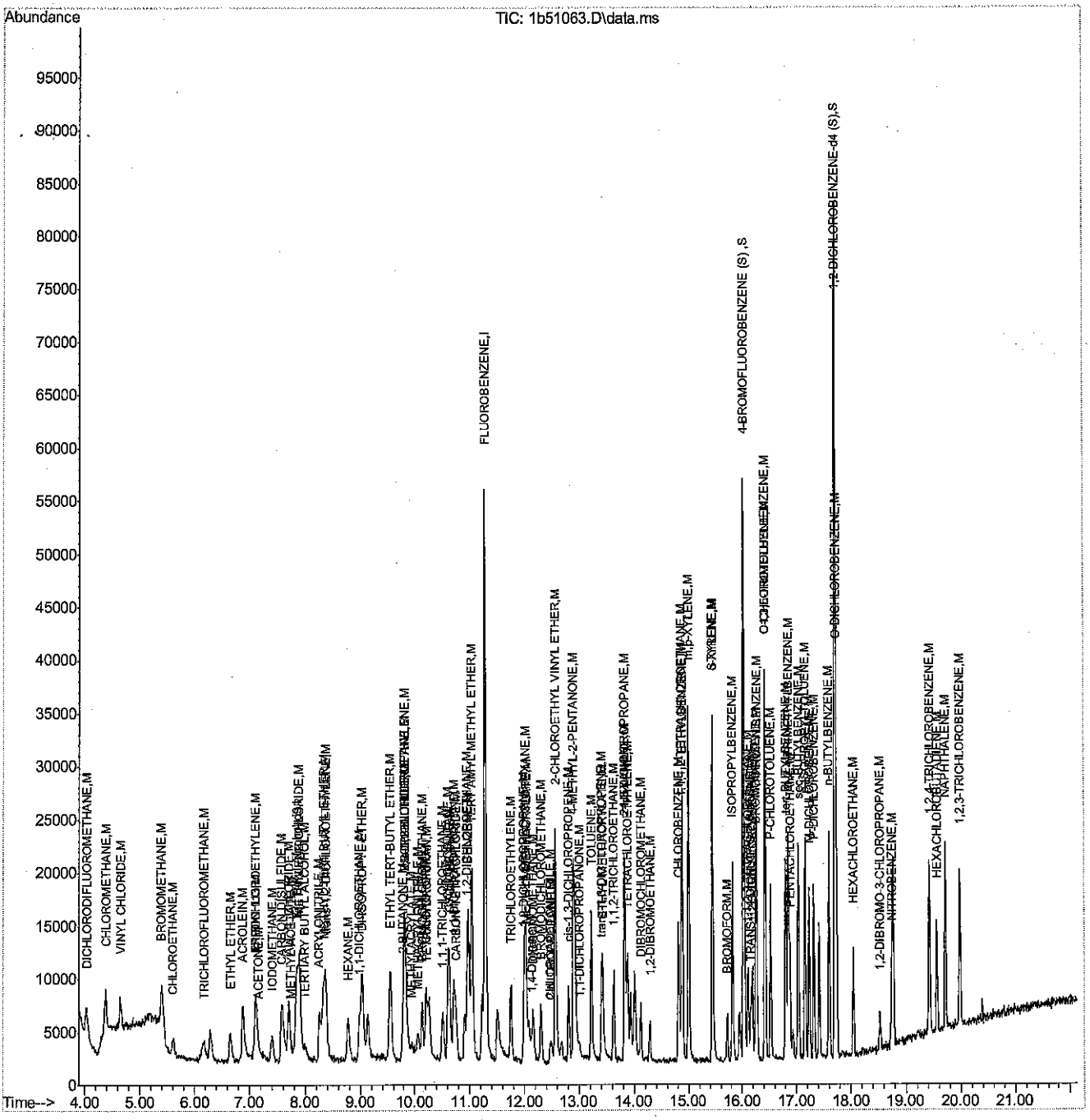
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.2 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51063.D
Acq On : 8 Dec 2010 8:07 pm
Operator : mohui
Sample : ic2336-1
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 09 08:20:36 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 08:19:04 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51064.D
Acq On : 8 Dec 2010 8:39 pm
Operator : mohui
Sample : ic2336-2
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 07:51:09 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:50:57 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.850	65	25797	50.00	PPB		-0.02
4) FLUOROBENZENE	11.285	96	61316	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.030	95	22095	5.05	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.707	152	22241	5.04	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.992	59	6147	9.66	PPb		90
3) 1,4-Dioxane	12.129	88	2038	51.07	PPB		80
7) DICHLORODIFLUOROMETHANE	4.039	85	7900	1.71	PPb		96
8) CHLOROMETHANE	4.374	50	12237	1.99	PPb		96
9) VINYL CHLORIDE	4.647	62	9163	2.00	PPb		100
10) BROMOMETHANE	5.397	94	6261	2.02	PPb		96
11) CHLOROETHANE	5.612	64	5677	2.03	PPb		95
12) TRICHLOROFLUOROMETHANE	6.178	101	7506	1.80	PPb		87
13) ETHYL ETHER	6.645	45	5491	1.80	PPb		94
14) ACROLEIN	6.870	56	21738	21.32	PPb		93
15) 1,1-DICHLOROETHYLENE	7.111	96	6000	1.95	PPb		93
16) FREON 113	7.106	151	3416	2.59	PPb		90
17) ACETONE	7.132	58	2952	8.63	PPb		85
18) IODOMETHANE	7.405	142	9623	2.04	PPb		97
19) CARBON DISULFIDE	7.578	76	22348	2.06	PPb		99
20) METHYL ACETATE	7.714	74	1222	2.32	PPb	#	69
21) ALLYL CHLORIDE	7.698	76	4079	2.10	PPb	#	85
22) METHYLENE CHLORIDE	7.898	84	8505	1.90	PPb		94
23) ACRYLONITRILE	8.244	53	18335	10.71	PPb		91
24) METHYL TERT BUTYL ETHER	8.338	73	23584	1.98	PPb		99
25) trans-1,2-DICHLOROETHY...	8.375	61	9434	1.98	PPb		98
26) HEXANE	8.773	57	7033	2.22	PPb		97
27) 1,1-DICHLOROETHANE	8.983	63	12183	2.05	PPb		97
28) DI-ISOPROPYL ETHER	9.035	45	23735	1.87	PPb		99
29) ETHYL TERT-BUTYL ETHER	9.544	59	23659	1.94	PPb		98
30) 2-BUTANONE	9.759	72	3611	9.05	PPb		94
31) 2,2-DICHLOROPROPANE	9.822	77	9591	1.96	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.806	96	7597	1.80	PPb		92
33) PROPIONITRILE	9.811	54	14381	20.34	PPb		90
34) METHYLACRYLATE	9.921	55	6971	2.83	PPb		100
35) METHACRYLONITRILE	10.037	41	4820	1.58	PPb		92
36) BROMOCHLOROMETHANE	10.126	128	3265	1.94	PPb		96
37) CHLOROFORM	10.199	83	11289	1.86	PPb		96
38) TETRAHYDROFURAN	10.220	42	4560	1.78	PPb	#	74
39) 1,1,1-TRICHLOROETHANE	10.503	97	9218	2.09	PPb		99
40) CYCLOHEXANE	10.629	84	9797	2.12	PPb	#	100
41) 1-CHLOROBUTANE	10.608	56	25870	2.14	PPb		98
42) 1,1-DICHLOROPROPENE	10.713	75	8740	2.11	PPb		94
43) CARBON TETRACHLORIDE	10.755	117	7454	2.10	PPb		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51064.D
Acq On : 8 Dec 2010 8:39 pm
Operator : mohui
Sample : ic2336-2
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 07:51:09 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:50:57 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,2-DICHLOROETHANE	10.954	62	8877	2.05	PPb		93
45)	BENZENE	10.975	78	26926	2.01	PPb		98
46)	TERT AMYL METHYL ETHER	11.038	73	23253	1.88	PPB		99
47)	TRICHLOROETHYLENE	11.756	95	6326	2.04	PPb		95
48)	METHYLCYCLOHEXANE	12.019	83	9836	2.21	PPb		94
49)	METHYL METHACRYLATE	12.029	69	8285	2.11	PPb		93
50)	1,2-DICHLOROPROPANE	11.992	63	7438	2.06	PPb		96
51)	DIBROMOMETHANE	12.155	93	4199	1.99	PPb		93
52)	BROMODICHLOROMETHANE	12.302	83	8560	1.94	PPb		100
53)	CHLOROACETONITRILE	12.464	75	2700	11.23	PPb		97
54)	2-NITROPROPANE	12.491	41	2356	1.90	PPb		99
55)	2-CHLOROETHYL VINYL ETHER	12.564	63	27498	10.17	PPb		99
56)	cis-1,3-DICHLOROPROPENE	12.805	75	11241	1.96	PPb		98
57)	4-METHYL-2-PENTANONE	12.894	58	15056	8.15	PPb		95
58)	1,1-DICHLOROPROPANONE	13.004	43	2644	2.24	PPb		96
59)	TOLUENE	13.219	92	15601	1.98	PPb		95
60)	trans-1,3-DICHLOROPROPENE	13.403	75	10738	1.97	PPb		94
61)	ETHYL METHACRYLATE	13.424	69	10650	1.95	PPb		89
62)	1,1,2-TRICHLOROETHANE	13.628	83	5745	2.02	PPb		95
63)	1,3-DICHLOROPROPANE	13.827	76	11205	1.97	PPb		94
64)	2-HEXANONE	13.822	58	14859	8.35	PPb		99
65)	TETRACHLOROETHYLENE	13.880	166	6324	2.08	PPb		95
66)	DIBROMOCHLOROMETHANE	14.121	129	6638	1.99	PPb		94
67)	1,2-DIBROMOETHANE	14.289	107	6368	1.99	PPb		98
68)	CHLOROBENZENE	14.813	112	17269	1.96	PPb		96
69)	1,1,1,2-TETRACHLOROETHANE	14.871	131	6404	1.99	PPb		94
70)	ETHYLBENZENE	14.881	91	30775	1.99	PPb		99
71)	m,p-XYLENE	14.997	106	23498	4.01	PPb		100
72)	o-XYLENE	15.448	106	11774	2.01	PPb		93
73)	STYRENE	15.453	104	20102	2.00	PPb		100
74)	BROMOFORM	15.720	173	5079	1.98	PPb		96
75)	ISOPROPYLBENZENE	15.820	105	31226	2.05	PPb		99
76)	BROMOBENZENE	16.245	156	7495	2.02	PPb		96
77)	1,1,2,2-TETRACHLOROETHANE	16.103	83	11439	2.10	PPb		96
78)	TRANS-1,4-DICHLORO-2-B...	16.145	53	2973	2.15	PPb		93
79)	1,2,3-TRICHLOROPROPANE	16.187	110	3204	2.21	PPb	#	83
80)	n-PROPYLBENZENE	16.260	91	38063	2.03	PPb		99
81)	O-CHLOROTOLUENE	16.418	126	7429	2.01	PPb		100
82)	1,3,5-TRIMETHYLBENZENE	16.423	105	26983	2.05	PPb		98
83)	P-CHLOROTOLUENE	16.517	91	24291	1.99	PPb		100
84)	tert-BUTYLBENZENE	16.800	119	22673	2.05	PPb		99
85)	1,2,4-TRIMETHYLBENZENE	16.842	105	28215	2.04	PPb		88
86)	PENTACHLOROETHANE	16.874	167	4846	2.10	PPb		97
87)	sec-BUTYLBENZENE	17.031	105	35151	2.06	PPb		99
88)	p-ISOPROPYLTOLUENE	17.157	119	28712	2.07	PPb		97
89)	M-DICHLOROBENZENE	17.230	146	15057	2.00	PPb		98
90)	P-DICHLOROBENZENE	17.314	146	16089	2.06	PPb		98
91)	n-BUTYLBENZENE	17.597	92	15699	2.09	PPb		97
92)	O-DICHLOROBENZENE	17.728	146	15798	2.03	PPb		99
93)	HEXACHLOROETHANE	18.038	201	4112	2.06	PPb		90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51064.D
Acq On : 8 Dec 2010 8:39 pm
Operator : mohui
Sample : ic2336-2
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 07:51:09 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:50:57 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	1949	2.10	PPb	90
95) NITROBENZENE	18.735	77	9951	20.71	PPb	92
96) 1,2,4-TRICHLOROBENZENE	19.422	180	12190	2.11	PPb	94
97) HEXACHLOROBUTADIENE	19.558	225	5334	1.97	PPb	95
98) NAPHTHALENE	19.710	128	37941	2.25	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.983	180	11900	2.12	PPb	96

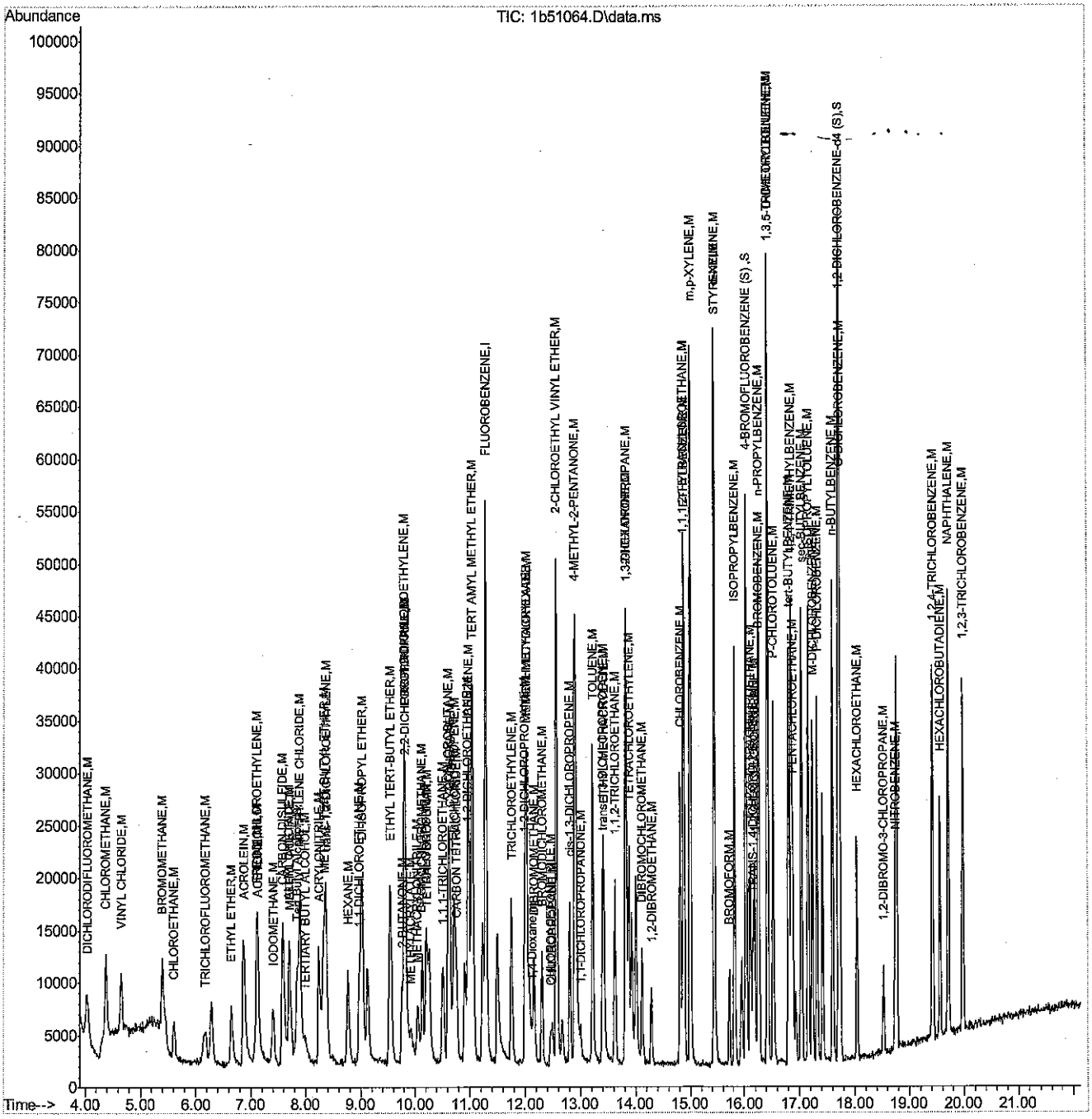
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51064.D
Acq On : 8 Dec 2010 8:39 pm
Operator : mohui
Sample : ic2336-2
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 09 07:51:09 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:50:57 2010
Response via : Initial Calibration



M1B2336.M Thu Dec 09 09:53:33 2010 MS1B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51065.D
Acq On : 8 Dec 2010 9:11 pm
Operator : mohui
Sample : ic2336-5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:51:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.851	65	24196	50.00	PPB		0.00
4) FLUOROBENZENE	11.285	96	62447	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.030	95	22275	4.99	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.80%				
6) 1,2-DICHLOROBENZENE-d4...	17.707	152	22732	5.05	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 101.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.987	59	14837	25.07	PPb		97
3) 1,4-Dioxane	12.124	88	4932	131.06	PPB		95
7) DICHLORODIFLUOROMETHANE	4.028	85	27962	5.72	PPb		97
8) CHLOROMETHANE	4.374	50	31867	5.09	PPb		97
9) VINYL CHLORIDE	4.652	62	27203	5.84	PPb		100
10) BROMOMETHANE	5.392	94	16411	5.19	PPb		99
11) CHLOROETHANE	5.601	64	15586	5.45	PPb		98
12) TRICHLOROFLUOROMETHANE	6.173	101	25860	5.63	PPb		98
13) ETHYL ETHER	6.639	45	13104	4.33	PPb		96
14) ACROLEIN	6.854	56	50549	47.63	PPb		98
15) 1,1-DICHLOROETHYLENE	7.106	96	15953	5.13	PPb		98
16) FREON 113	7.111	151	11185	7.76	PPb		98
17) ACETONE	7.117	58	7610	21.42	PPb		98
18) IODOMETHANE	7.400	142	25279	5.24	PPb		99
19) CARBON DISULFIDE	7.578	76	60502	5.44	PPb		99
20) METHYL ACETATE	7.704	74	3581	6.34	PPb	#	1
21) ALLYL CHLORIDE	7.698	76	10887	5.44	PPb		89
22) METHYLENE CHLORIDE	7.898	84	22021	4.90	PPb		97
23) ACRYLONITRILE	8.223	53	46380	26.13	PPb		98
24) METHYL TERT BUTYL ETHER	8.333	73	60042	4.96	PPb		99
25) trans-1,2-DICHLOROETHY...	8.364	61	25904	5.35	PPb		99
26) HEXANE	8.768	57	21936	6.61	PPb		98
27) 1,1-DICHLOROETHANE	8.978	63	32530	5.34	PPb		99
28) DI-ISOPROPYL ETHER	9.025	45	65037	5.11	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.539	59	65409	5.32	PPb		98
30) 2-BUTANONE	9.743	72	9481	22.60	PPb		96
31) 2,2-DICHLOROPROPANE	9.822	77	25322	5.11	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.796	96	19384	4.63	PPb		97
33) PROPIONITRILE	9.790	54	35664	49.31	PPb		97
34) METHYLACRYLATE	9.901	55	18982	6.85	PPb		100
35) METHACRYLONITRILE	10.032	41	12808	4.36	PPb		96
36) BROMOCHLOROMETHANE	10.131	128	8837	5.20	PPb		90
37) CHLOROFORM	10.199	83	30235	4.99	PPb		98
38) TETRAHYDROFURAN	10.205	42	10075	3.98	PPb		91
39) 1,1,1-TRICHLOROETHANE	10.509	97	24833	5.46	PPb		99
40) CYCLOHEXANE	10.624	84	27834	5.82	PPb	#	100
41) 1-CHLOROBUTANE	10.608	56	70043	5.59	PPb		95
42) 1,1-DICHLOROPROPENE	10.708	75	23753	5.55	PPb		96
43) CARBON TETRACHLORIDE	10.750	117	20279	5.54	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51065.D
Acq On : 8 Dec 2010 9:11 pm
Operator : mohui
Sample : ic2336-5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:51:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.949	62	23683	5.33 PPb	97
45) BENZENE	10.970	78	71030	5.20 PPb	98
46) TERT AMYL METHYL ETHER	11.038	73	64552	5.20 PPB	99
47) TRICHLOROETHYLENE	11.746	95	17057	5.36 PPb	97
48) METHYLCYCLOHEXANE	12.019	83	30385	6.54 PPb	99
49) METHYL METHACRYLATE	12.024	69	21787	5.36 PPb	97
50) 1,2-DICHLOROPROPANE	11.993	63	19132	5.16 PPb	97
51) DIBROMOMETHANE	12.155	93	11240	5.24 PPb	96
52) BROMODICHLOROMETHANE	12.302	83	22670	5.08 PPb	98
53) CHLOROACETONITRILE	12.449	75	6296	24.95 PPb	94
54) 2-NITROPROPANE	12.491	41	5101	4.09 PPb	89
55) 2-CHLOROETHYL VINYL ETHER	12.559	63	73174	26.46 PPb	97
56) cis-1,3-DICHLOROPROPENE	12.805	75	29910	5.14 PPb	99
57) 4-METHYL-2-PENTANONE	12.894	58	35797	18.94 PPb	98
58) 1,1-DICHLOROPROPANONE	12.999	43	6301	5.09 PPb	97
59) TOLUENE	13.219	92	41594	5.20 PPb	98
60) trans-1,3-DICHLOROPROPENE	13.398	75	28168	5.10 PPb	98
61) ETHYL METHACRYLATE	13.419	69	26610	4.82 PPb	95
62) 1,1,2-TRICHLOROETHANE	13.628	83	14446	4.97 PPb	97
63) 1,3-DICHLOROPROPANE	13.822	76	28848	5.00 PPb	96
64) 2-HEXANONE	13.817	58	33783	18.44 PPb	98
65) TETRACHLOROETHYLENE	13.880	166	16992	5.43 PPb	98
66) DIBROMOCHLOROMETHANE	14.121	129	16963	5.01 PPb	97
67) 1,2-DIBROMOETHANE	14.284	107	16557	5.09 PPb	95
68) CHLOROBENZENE	14.813	112	45025	5.04 PPb	97
69) 1,1,1,2-TETRACHLOROETHANE	14.871	131	16967	5.18 PPb	98
70) ETHYLBENZENE	14.881	91	82216	5.24 PPb	99
71) m,p-XYLENE	14.997	106	62411	10.44 PPb	98
72) o-XYLENE	15.448	106	31481	5.28 PPb	97
73) STYRENE	15.453	104	52342	5.12 PPb	99
74) BROMOFORM	15.715	173	12411	4.76 PPb	100
75) ISOPROPYLBENZENE	15.820	105	82743	5.29 PPb	99
76) BROMOBENZENE	16.245	156	19383	5.12 PPb	96
77) 1,1,2,2-TETRACHLOROETHANE	16.103	83	26038	4.64 PPb	98
78) TRANS-1,4-DICHLORO-2-B...	16.145	53	6944	4.84 PPb	95
79) 1,2,3-TRICHLOROPROPANE	16.182	110	7323	4.83 PPb	86
80) n-PROPYLBENZENE	16.260	91	99642	5.20 PPb	100
81) O-CHLOROTOLUENE	16.418	126	18958	5.03 PPb	98
82) 1,3,5-TRIMETHYLBENZENE	16.423	105	70194	5.21 PPb	99
83) P-CHLOROTOLUENE	16.517	91	62286	5.02 PPb	100
84) tert-BUTYLBENZENE	16.800	119	58728	5.17 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.842	105	72075	5.09 PPb	98
86) PENTACHLOROETHANE	16.879	167	11656	4.91 PPb	94
87) sec-BUTYLBENZENE	17.031	105	93045	5.32 PPb	100
88) p-ISOPROPYLTOLUENE	17.157	119	74573	5.23 PPb	99
89) M-DICHLOROBENZENE	17.230	146	38769	5.05 PPb	96
90) P-DICHLOROBENZENE	17.314	146	39854	4.97 PPb	100
91) n-BUTYLBENZENE	17.597	92	41356	5.34 PPb	99
92) O-DICHLOROBENZENE	17.728	146	38660	4.86 PPb	99
93) HEXACHLOROETHANE	18.043	201	10779	5.25 PPb	97

6.6.4 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51065.D
Acq On : 8 Dec 2010 9:11 pm
Operator : mohui
Sample : ic2336-5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:51:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	4623	4.83	PPb	97
95) NITROBENZENE	18.735	77	23305	47.21	PPb	98
96) 1,2,4-TRICHLOROBENZENE	19.422	180	29403	4.93	PPb	96
97) HEXACHLOROBUTADIENE	19.558	225	14644	5.32	PPb	95
98) NAPHTHALENE	19.710	128	86669	4.89	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.983	180	28441	4.91	PPb	94

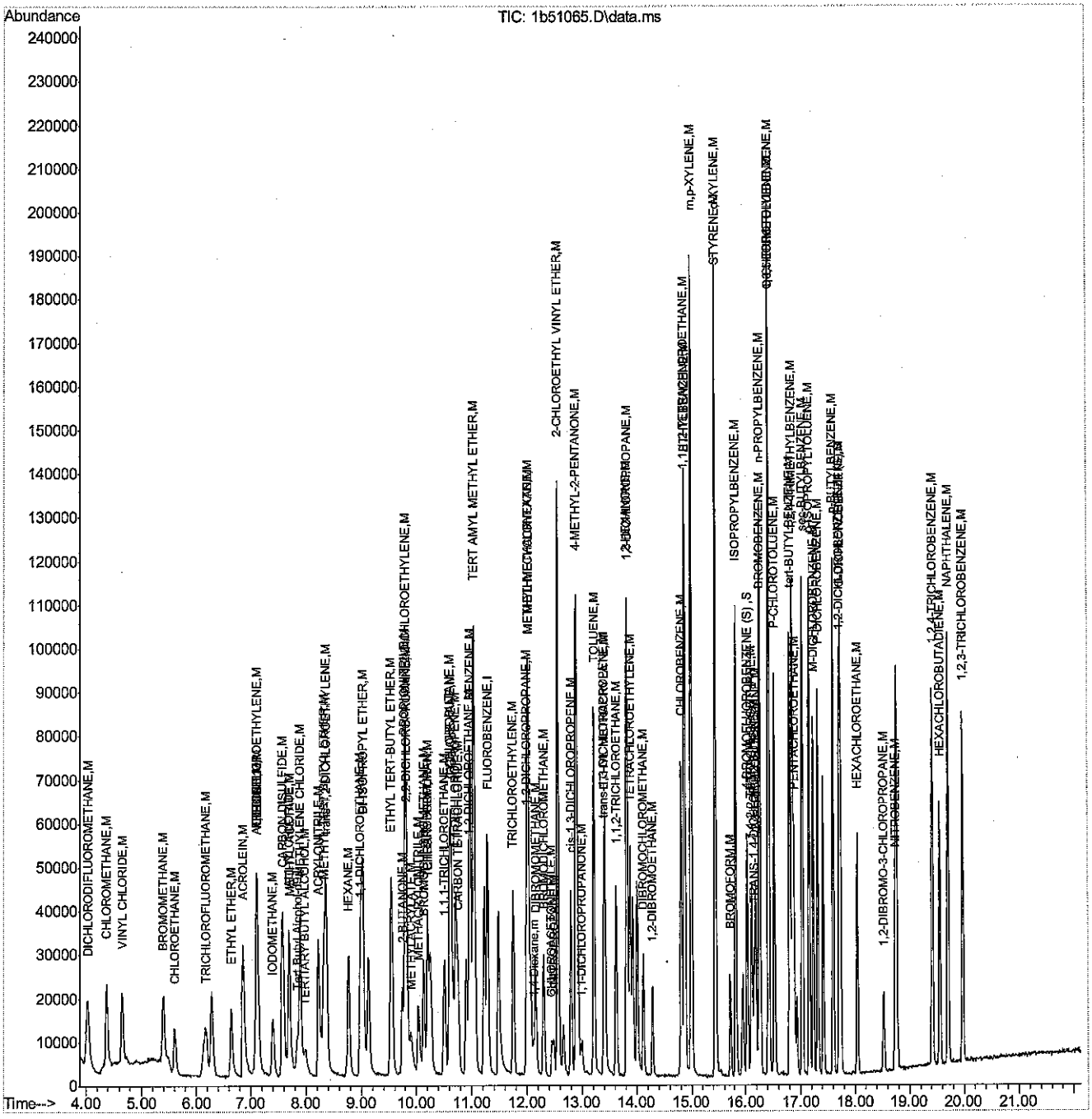
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.4 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51065.D
Acq On : 8 Dec 2010 9:11 pm
Operator : mohui
Sample : ic2336-5
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 09 07:51:28 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:17 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51066.D
Acq On : 8 Dec 2010 9:43 pm
Operator : mohui
Sample : icc2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 07:48:19 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 11 09:50:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.851	65	23630	50.00	PPB		-0.01
4) FLUOROBENZENE	11.285	96	62053	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.030	95	22182	4.77	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery =	95.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.708	152	22164	4.59	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery =	91.80%			
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.982	59	28372	46.95	PPb		78
3) 1,4-Dioxane	12.124	88	10809	204.71	PPB		96
7) DICHLORODIFLUOROMETHANE	4.023	85	49418	11.42	PPb		99
8) CHLOROMETHANE	4.369	50	59608	10.09	PPb		100
9) VINYL CHLORIDE	4.652	62	50582	10.95	PPb		100
10) BROMOMETHANE	5.392	94	30872	9.74	PPb		99
11) CHLOROETHANE	5.601	64	29065	9.70	PPb		97
12) TRICHLOROFLUOROMETHANE	6.173	101	46698	9.91	PPb		98
13) ETHYL ETHER	6.639	45	26837	9.72	PPb		94
14) ACROLEIN	6.849	56	99673	113.18	PPb		98
15) 1,1-DICHLOROETHYLENE	7.106	96	31291	10.02	PPb		95
16) FREON 113	7.117	151	19571	9.54	PPb		97
17) ACETONE	7.111	58	16317	40.30	PPb		99
18) IODOMETHANE	7.400	142	50600	9.51	PPb		98
19) CARBON DISULFIDE	7.573	76	121114	10.58	PPb		100
20) METHYL ACETATE	7.683	74	7355	9.63	PPb	#	98
21) ALLYL CHLORIDE	7.693	76	21432	10.00	PPb		98
22) METHYLENE CHLORIDE	7.893	84	44643	9.49	PPb		98
23) ACRYLONITRILE	8.212	53	94100	47.27	PPb		99
24) METHYL TERT BUTYL ETHER	8.328	73	121651	9.28	PPb		100
25) trans-1,2-DICHLOROETHY...	8.364	61	52927	10.33	PPb		99
26) HEXANE	8.773	57	39019	8.65	PPb		98
27) 1,1-DICHLOROETHANE	8.978	63	65392	9.98	PPb		99
28) DI-ISOPROPYL ETHER	9.020	45	123000	9.08	PPb		94
29) ETHYL TERT-BUTYL ETHER	9.544	59	123625	9.29	PPb		96
30) 2-BUTANONE	9.733	72	20610	39.67	PPb		97
31) 2,2-DICHLOROPROPANE	9.812	77	49254	9.43	PPb		100
32) cis-1,2-DICHLOROETHYLENE	9.796	96	39257	9.37	PPb		99
33) PROPIONITRILE	9.785	54	74788	95.31	PPb		97
34) METHYLACRYLATE	9.885	55	39682	9.68	PPb		100
35) METHACRYLONITRILE	10.026	41	26817	9.40	PPb		96
36) BROMOCHLOROMETHANE	10.126	128	18538	9.62	PPb		93
37) CHLOROFORM	10.194	83	60326	9.70	PPb		99
38) TETRAHYDROFURAN	10.200	42	16686	8.10	PPb		95
39) 1,1,1-TRICHLOROETHANE	10.509	97	49749	10.28	PPb		99
40) CYCLOHEXANE	10.624	84	53582	11.74	PPb	#	100
41) 1-CHLOROBUTANE	10.603	56	138598	11.53	PPb		98
42) 1,1-DICHLOROPROPENE	10.708	75	48070	10.64	PPb		100
43) CARBON TETRACHLORIDE	10.750	117	41202	10.43	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51066.D
Acq On : 8 Dec 2010 9:43 pm
Operator : mohui
Sample : icc2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 07:48:19 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 11 09:50:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.949	62	48344	9.88	PPb	97
45) BENZENE	10.970	78	144924	10.00	PPb	100
46) TERT AMYL METHYL ETHER	11.038	73	116887	8.78	PPB	99
47) TRICHLOROETHYLENE	11.746	95	34610	9.95	PPb	98
48) METHYLCYCLOHEXANE	12.019	83	53924	9.36	PPb	98
49) METHYL METHACRYLATE	12.019	69	43835	9.64	PPb	99
50) 1,2-DICHLOROPROPANE	11.993	63	39707	9.74	PPb	98
51) DIBROMOMETHANE	12.155	93	23192	9.52	PPb	98
52) BROMODICHLOROMETHANE	12.297	83	46561	9.88	PPb	100
53) CHLOROACETONITRILE	12.444	75	13642	47.82	PPb	99
54) 2-NITROPROPANE	12.485	41	10972	9.45	PPb	100
55) 2-CHLOROETHYL VINYL ETHER	12.559	63	142839	46.31	PPb	97
56) cis-1,3-DICHLOROPROPENE	12.800	75	62026	9.61	PPb	99
57) 4-METHYL-2-PENTANONE	12.889	58	75405	37.37	PPb	95
58) 1,1-DICHLOROPROPANONE	12.994	43	14821	9.91	PPb	98
59) TOLUENE	13.220	92	86661	9.73	PPb	96
60) trans-1,3-DICHLOROPROPENE	13.398	75	58047	9.52	PPb	99
61) ETHYL METHACRYLATE	13.419	69	56795	9.58	PPb	94
62) 1,1,2-TRICHLOROETHANE	13.623	83	29858	9.65	PPb	98
63) 1,3-DICHLOROPROPANE	13.822	76	60123	9.45	PPb	97
64) 2-HEXANONE	13.812	58	72125	36.15	PPb	97
65) TETRACHLOROETHYLENE	13.880	166	34649	9.94	PPb	99
66) DIBROMOCHLOROMETHANE	14.121	129	35900	9.64	PPb	99
67) 1,2-DIBROMOETHANE	14.284	107	34889	9.38	PPb	99
68) CHLOROBENZENE	14.808	112	93727	9.33	PPb	94
69) 1,1,1,2-TETRACHLOROETHANE	14.871	131	33984	9.30	PPb	99
70) ETHYLBENZENE	14.876	91	167921	9.71	PPb	98
71) m,p-XYLENE	14.997	106	126848	18.95	PPb	99
72) o-XYLENE	15.448	106	63970	9.49	PPb	94
73) STYRENE	15.448	104	109156	9.37	PPb	98
74) BROMOFORM	15.715	173	26513	10.17	PPb	98
75) ISOPROPYLBENZENE	15.820	105	168836	9.70	PPb	99
76) BROMOBENZENE	16.239	156	39206	9.17	PPb	92
77) 1,1,2,2-TETRACHLOROETHANE	16.103	83	54938	9.32	PPb	98
78) TRANS-1,4-DICHLORO-2-B...	16.145	53	14493	10.88	PPb	95
79) 1,2,3-TRICHLOROPROPANE	16.182	110	15196	9.20	PPb	88
80) n-PROPYLBENZENE	16.260	91	202308	9.73	PPb	99
81) O-CHLOROTOLUENE	16.418	126	38533	9.25	PPb	95
82) 1,3,5-TRIMETHYLBENZENE	16.418	105	143669	9.51	PPb	98
83) P-CHLOROTOLUENE	16.517	91	125999	9.35	PPb	96
84) tert-BUTYLBENZENE	16.795	119	121058	9.56	PPb	98
85) 1,2,4-TRIMETHYLBENZENE	16.842	105	147560	9.41	PPb	97
86) PENTACHLOROETHANE	16.879	167	24664	9.25	PPb	97
87) sec-BUTYLBENZENE	17.031	105	189372	9.90	PPb	99
88) p-ISOPROPYLTOLUENE	17.152	119	152775	9.47	PPb	97
89) M-DICHLOROBENZENE	17.225	146	78659	9.09	PPb	98
90) P-DICHLOROBENZENE	17.314	146	82630	9.13	PPb	98
91) n-BUTYLBENZENE	17.597	92	84613	9.83	PPb	99
92) O-DICHLOROBENZENE	17.729	146	80419	9.11	PPb	100
93) HEXACHLOROETHANE	18.043	201	22919	9.76	PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51066.D
Acq On : 8 Dec 2010 9:43 pm
Operator : mohui
Sample : icc2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 07:48:19 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 11 09:50:17 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	9804	9.44 PPb	96
95) NITROBENZENE	18.735	77	49757	151.00 PPb	96
96) 1,2,4-TRICHLOROBENZENE	19.422	180	62507	8.98 PPb	99
97) HEXACHLOROBUTADIENE	19.558	225	29626	9.41 PPb	100
98) NAPHTHALENE	19.710	128	186146	8.91 PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.978	180	60955	8.92 PPb	96

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

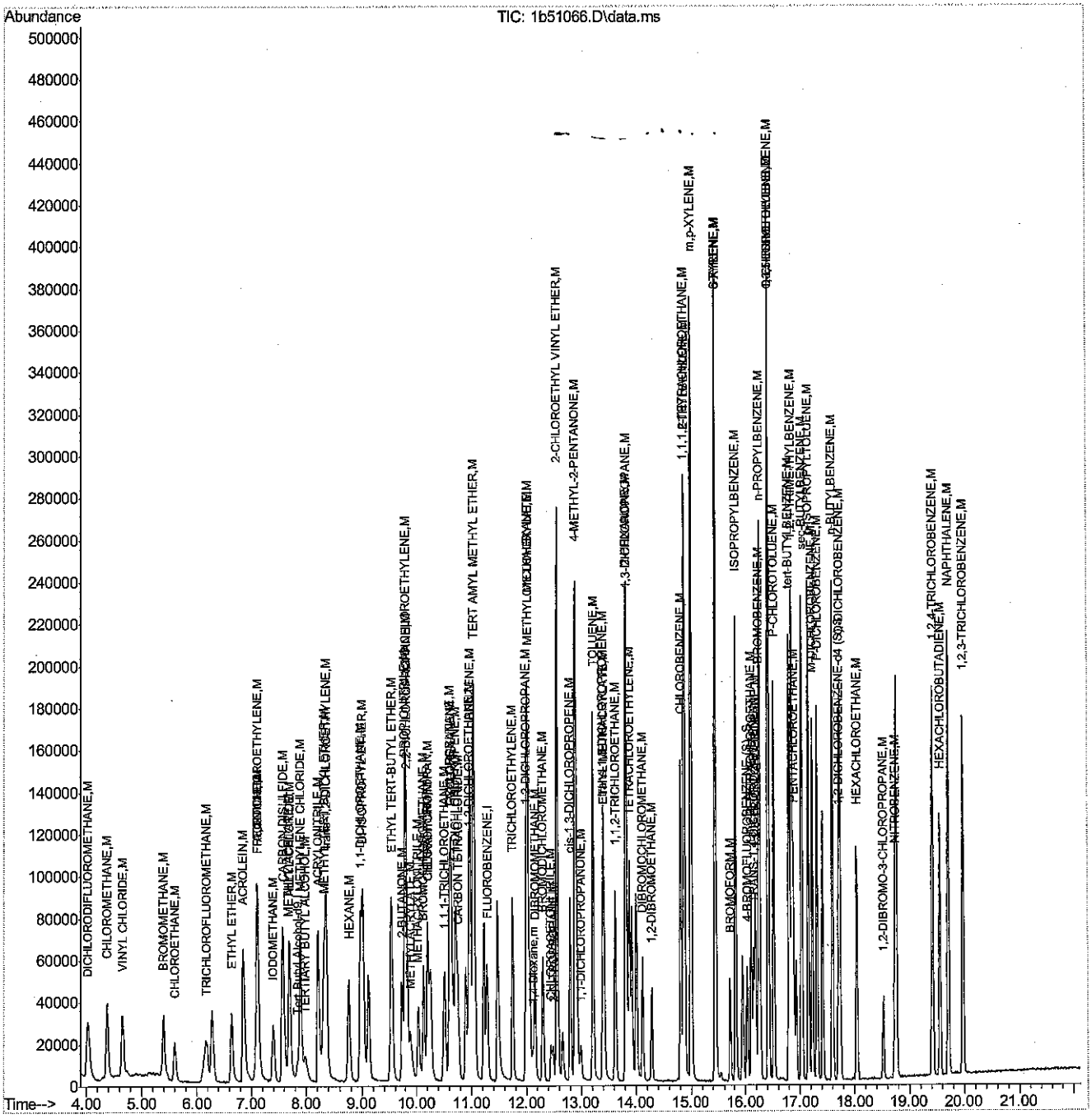
6.6.5 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51066.D
Acq On : 8 Dec 2010 9:43 pm
Operator : mohui
Sample : icc2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 09 07:48:19 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 11 09:50:17 2010
Response via : Initial Calibration

6.6.5



ACCUTEST LABORATORIES JA65236

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51067.D
Acq On : 8 Dec 2010 10:15 pm
Operator : mohui
Sample : ic2336-20
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:52:16 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.851	65	25803	50.00	PPB		0.00
4) FLUOROBENZENE	11.285	96	63028	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.025	95	22470	4.99	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.80%				
6) 1,2-DICHLOROBENZENE-d4...	17.708	152	22751	5.00	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.976	59	63764	100.99	PPb		96
3) 1,4-Dioxane	12.118	88	24603	607.19	PPB		90
7) DICHLORODIFLUOROMETHANE	4.028	85	76787	14.91	PPb		98
8) CHLOROMETHANE	4.374	50	104311	16.44	PPb		100
9) VINYL CHLORIDE	4.658	62	86744	17.85	PPb		99
10) BROMOMETHANE	5.386	94	53961	16.79	PPb		98
11) CHLOROETHANE	5.601	64	50348	17.14	PPb		97
12) TRICHLOROFLUOROMETHANE	6.173	101	73477	15.08	PPb		98
13) ETHYL ETHER	6.634	45	50396	16.96	PPb		96
14) ACROLEIN	6.844	56	182960	172.86	PPb		100
15) 1,1-DICHLOROETHYLENE	7.106	96	56912	18.03	PPb		99
16) FREON 113	7.111	151	34184	21.16	PPb		95
17) ACETONE	7.101	58	33324	91.62	PPb		97
18) IODOMETHANE	7.400	142	96878	19.71	PPb		98
19) CARBON DISULFIDE	7.573	76	222801	19.50	PPb		97
20) METHYL ACETATE	7.672	74	16082	26.45	PPb	#	100
21) ALLYL CHLORIDE	7.688	76	38856	18.90	PPb		98
22) METHYLENE CHLORIDE	7.893	84	84060	18.59	PPb		98
23) ACRYLONITRILE	8.207	53	192473	106.49	PPb		97
24) METHYL TERT BUTYL ETHER	8.328	73	239098	19.61	PPb		99
25) trans-1,2-DICHLOROETHY...	8.359	61	97184	19.62	PPb		99
26) HEXANE	8.768	57	67136	18.83	PPb		100
27) 1,1-DICHLOROETHANE	8.978	63	122148	19.60	PPb		99
28) DI-ISOPROPYL ETHER	9.025	45	243307	18.87	PPb		97
29) ETHYL TERT-BUTYL ETHER	9.539	59	252053	20.04	PPb		100
30) 2-BUTANONE	9.728	72	42943	98.84	PPb		97
31) 2,2-DICHLOROPROPANE	9.812	77	89759	17.86	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.796	96	73285	17.62	PPb		98
33) PROPIONITRILE	9.780	54	155369	213.44	PPb		99
34) METHYLACRYLATE	9.874	55	83092	27.66	PPb		100
35) METHACRYLONITRILE	10.021	41	55463	19.18	PPb		98
36) BROMOCHLOROMETHANE	10.126	128	35610	20.60	PPb		94
37) CHLOROFORM	10.194	83	115792	18.93	PPb		99
38) TETRAHYDROFURAN	10.200	42	36331	14.82	PPb		95
39) 1,1,1-TRICHLOROETHANE	10.504	97	91144	19.50	PPb		98
40) CYCLOHEXANE	10.624	84	94416	18.93	PPb	#	100
41) 1-CHLOROBUTANE	10.598	56	249786	19.30	PPb		90
42) 1,1-DICHLOROPROPENE	10.703	75	88569	20.07	PPb		98
43) CARBON TETRACHLORIDE	10.745	117	75414	19.98	PPb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51067.D
Acq On : 8 Dec 2010 10:15 pm
Operator : mohui
Sample : ic2336-20
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:52:16 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:59 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,2-DICHLOROETHANE	10.949	62	95327	20.98	PPb	98
45)	BENZENE	10.970	78	271763	19.55	PPb	99
46)	TERT AMYL METHYL ETHER	11.038	73	238599	18.90	PPB	99
47)	TRICHLOROETHYLENE	11.746	95	65217	20.03	PPb	97
48)	METHYLCYCLOHEXANE	12.019	83	96012	19.28	PPb	99
49)	METHYL METHACRYLATE	12.014	69	86476	20.79	PPb	97
50)	1,2-DICHLOROPROPANE	11.993	63	76401	20.28	PPb	99
51)	DIBROMOMETHANE	12.155	93	45517	20.84	PPb	97
52)	BROMODICHLOROMETHANE	12.297	83	90522	20.02	PPb	100
53)	CHLOROACETONITRILE	12.438	75	28119	110.44	PPb	98
54)	2-NITROPROPANE	12.480	41	22571	18.60	PPb	97
55)	2-CHLOROETHYL VINYL ETHER	12.559	63	297881	105.50	PPb	100
56)	cis-1,3-DICHLOROPROPENE	12.800	75	119749	20.27	PPb	99
57)	4-METHYL-2-PENTANONE	12.889	58	152073	80.58	PPb	99
58)	1,1-DICHLOROPROPANONE	12.994	43	32269	25.72	PPb	99
59)	TOLUENE	13.214	92	161956	19.91	PPb	99
60)	trans-1,3-DICHLOROPROPENE	13.393	75	113178	20.22	PPb	98
61)	ETHYL METHACRYLATE	13.413	69	111322	20.13	PPb	96
62)	1,1,2-TRICHLOROETHANE	13.623	83	58099	19.83	PPb	99
63)	1,3-DICHLOROPROPANE	13.822	76	117010	20.10	PPb	98
64)	2-HEXANONE	13.812	58	147246	80.89	PPb	98
65)	TETRACHLOROETHYLENE	13.875	166	64401	20.06	PPb	98
66)	DIBROMOCHLOROMETHANE	14.116	129	69784	20.40	PPb	98
67)	1,2-DIBROMOETHANE	14.279	107	69272	21.02	PPb	99
68)	CHLOROBENZENE	14.808	112	177592	19.68	PPb	88
69)	1,1,1,2-TETRACHLOROETHANE	14.871	131	65355	19.63	PPb	99
70)	ETHYLBENZENE	14.876	91	317067	19.82	PPb	99
71)	m,p-XYLENE	14.992	106	240241	39.48	PPb	100
72)	o-XYLENE	15.448	106	120872	19.85	PPb	97
73)	STYRENE	15.448	104	207143	19.98	PPb	100
74)	BROMOFORM	15.715	173	52335	20.07	PPb	98
75)	ISOPROPYLBENZENE	15.820	105	316262	19.81	PPb	100
76)	BROMOBENZENE	16.239	156	76635	19.96	PPb	94
77)	1,1,2,2-TETRACHLOROETHANE	16.103	83	107836	19.31	PPb	98
78)	TRANS-1,4-DICHLORO-2-B...	16.145	53	29148	20.27	PPb	94
79)	1,2,3-TRICHLOROPROPANE	16.182	110	30154	19.84	PPb	94
80)	n-PROPYLBENZENE	16.260	91	382290	19.61	PPb	100
81)	O-CHLOROTOLUENE	16.418	126	73014	19.16	PPb	98
82)	1,3,5-TRIMETHYLBENZENE	16.418	105	271069	19.76	PPb	99
83)	P-CHLOROTOLUENE	16.517	91	238793	19.06	PPb	99
84)	tert-BUTYLBENZENE	16.800	119	232045	20.12	PPb	97
85)	1,2,4-TRIMETHYLBENZENE	16.842	105	280062	19.51	PPb	99
86)	PENTACHLOROETHANE	16.874	167	48094	20.13	PPb	97
87)	sec-BUTYLBENZENE	17.031	105	354373	19.81	PPb	100
88)	p-ISOPROPYLTOLUENE	17.152	119	286906	19.76	PPb	99
89)	M-DICHLOROBENZENE	17.225	146	149760	19.29	PPb	97
90)	P-DICHLOROBENZENE	17.314	146	155632	19.26	PPb	98
91)	n-BUTYLBENZENE	17.592	92	158526	20.01	PPb	99
92)	O-DICHLOROBENZENE	17.729	146	152829	19.15	PPb	99
93)	HEXACHLOROETHANE	18.043	201	43781	20.93	PPb	96

6.6.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51067.D
Acq On : 8 Dec 2010 10:15 pm
Operator : mohui
Sample : ic2336-20
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:52:16 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	19370	20.18	PPb	97
95) NITROBENZENE	18.730	77	108069	219.35	PPb	97
96) 1,2,4-TRICHLOROBENZENE	19.422	180	120539	20.07	PPb	98
97) HEXACHLOROBUTADIENE	19.558	225	55437	19.72	PPb	98
98) NAPHTHALENE	19.710	128	369932	20.78	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.978	180	118747	20.38	PPb	97

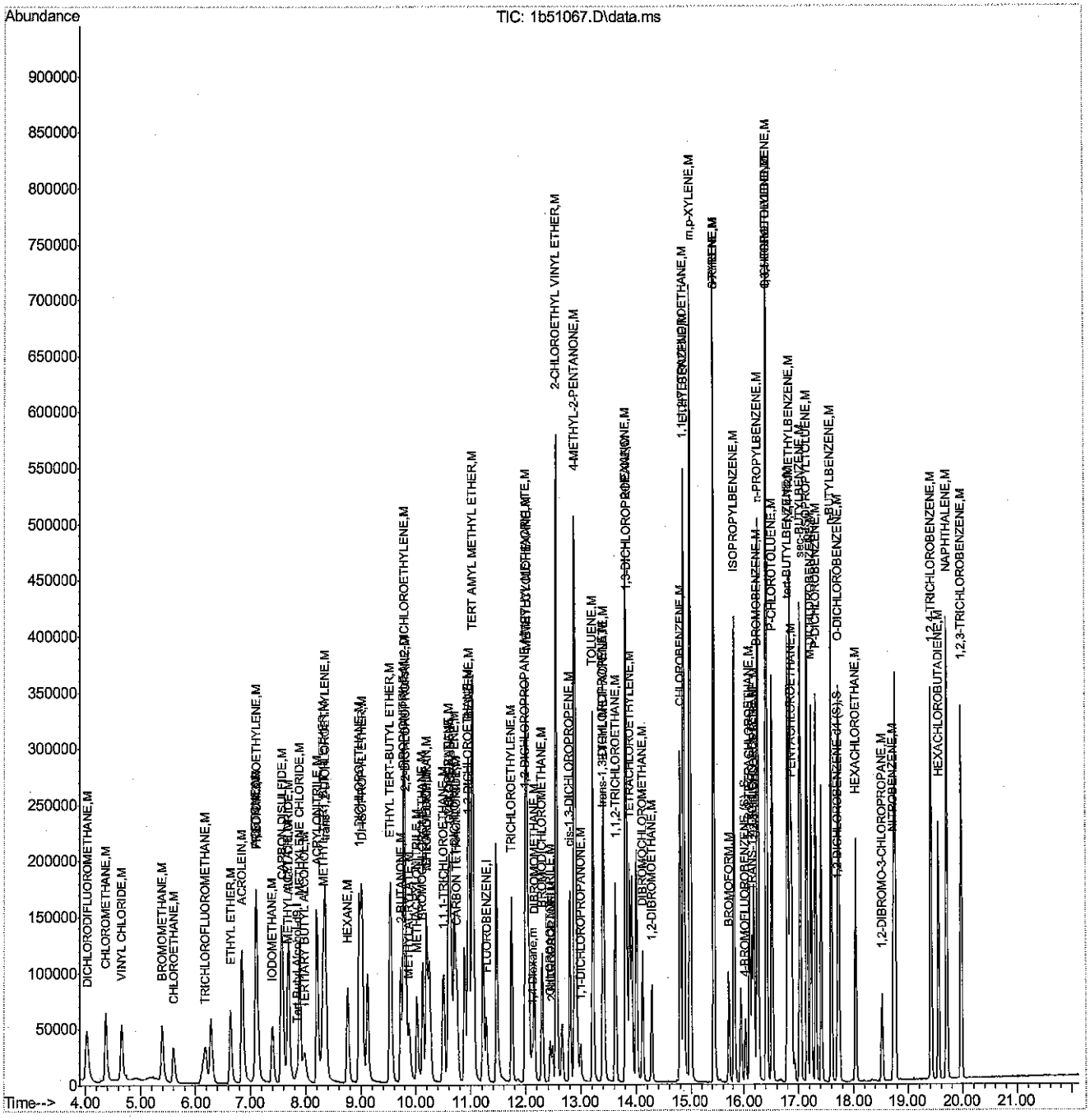
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51067.D
Acq On : 8 Dec 2010 10:15 pm
Operator : mohui
Sample : ic2336-20
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 09 07:52:16 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:51:59 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51068.D
Acq On : 8 Dec 2010 10:47 pm
Operator : mohui
Sample : ic2336-40
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 07:52:42 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:32 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.861	65	24968	50.00	PPB		0.00
4) FLUOROBENZENE	11.285	96	64126	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.024	95	22898	5.00	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 100.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.707	152	23161	5.00	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.981	59	120080	196.22	PPb		96
3) 1,4-Dioxane	12.113	88	45281	1115.04	PPB		91
7) DICHLORODIFLUOROMETHANE	4.028	85	180688	44.48	PPb		99
8) CHLOROMETHANE	4.385	50	241753	38.59	PPb		100
9) VINYL CHLORIDE	4.673	62	203832	41.98	PPb		98
10) BROMOMETHANE	5.391	94	126115	39.63	PPb		98
11) CHLOROETHANE	5.601	64	117629	40.32	PPb		98
12) TRICHLOROFLUOROMETHANE	6.183	101	176709	45.40	PPb		97
13) ETHYL ETHER	6.639	45	99014	33.61	PPb		96
14) ACROLEIN	6.849	56	410223	391.57	PPb		99
15) 1,1-DICHLOROETHYLENE	7.111	96	114155	36.14	PPb		99
16) FREON 113	7.116	151	73613	44.36	PPb		97
17) ACETONE	7.101	58	63611	167.83	PPb		93
18) IODOMETHANE	7.405	142	192968	38.68	PPb		97
19) CARBON DISULFIDE	7.583	76	451390	39.00	PPb		99
20) METHYL ACETATE	7.672	74	32246	48.96	PPb		94
21) ALLYL CHLORIDE	7.693	76	77643	37.47	PPb		96
22) METHYLENE CHLORIDE	7.898	84	168059	36.97	PPb		99
23) ACRYLONITRILE	8.207	53	369216	198.63	PPb		98
24) METHYL TERT BUTYL ETHER	8.333	73	474402	38.37	PPb		93
25) trans-1,2-DICHLOROETHY...	8.364	61	191205	38.07	PPb		98
26) HEXANE	8.768	57	136594	38.03	PPb		99
27) 1,1-DICHLOROETHANE	8.978	63	240063	37.98	PPb		99
28) DI-ISOPROPYL ETHER	9.025	45	487735	37.54	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.544	59	506407	39.56	PPb		99
30) 2-BUTANONE	9.722	72	81769	178.00	PPb		97
31) 2,2-DICHLOROPROPANE	9.817	77	174786	34.80	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.796	96	143755	34.66	PPb		99
33) PROPIONITRILE	9.780	54	298513	398.60	PPb		97
34) METHYLACRYLATE	9.874	55	163532	50.29	PPb		100
35) METHACRYLONITRILE	10.016	41	108070	36.99	PPb		97
36) BROMOCHLOROMETHANE	10.126	128	69671	39.42	PPb		99
37) CHLOROFORM	10.194	83	226392	36.71	PPb		99
38) TETRAHYDROFURAN	10.194	42	66532	27.87	PPb		98
39) 1,1,1-TRICHLOROETHANE	10.503	97	180970	38.21	PPb		97
40) CYCLOHEXANE	10.624	84	190919	37.96	PPb	#	100
41) 1-CHLOROBUTANE	10.603	56	494414	37.76	PPb		92
42) 1,1-DICHLOROPROPENE	10.703	75	173480	38.61	PPb		98
43) CARBON TETRACHLORIDE	10.745	117	149929	39.05	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51068.D
Acq On : 8 Dec 2010 10:47 pm
Operator : mohui
Sample : ic2336-40
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 07:52:42 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:32 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.949	62	187165	40.17 PPb	97
45) BENZENE	10.970	78	536575	38.08 PPb	99
46) TERT AMYL METHYL ETHER	11.038	73	480468	37.76 PPB	98
47) TRICHLOROETHYLENE	11.746	95	128925	38.91 PPb	98
48) METHYLCYCLOHEXANE	12.019	83	200926	39.89 PPb	99
49) METHYL METHACRYLATE	12.019	69	172041	40.39 PPb	96
50) 1,2-DICHLOROPROPANE	11.992	63	151333	39.40 PPb	97
51) DIBROMOMETHANE	12.155	93	90212	40.31 PPb	97
52) BROMODICHLOROMETHANE	12.297	83	181412	39.43 PPb	100
53) CHLOROACETONITRILE	12.438	75	54491	206.75 PPb	95
54) 2-NITROPROPANE	12.480	41	43592	35.73 PPb	95
55) 2-CHLOROETHYL VINYL ETHER	12.559	63	584743	201.71 PPb	100
56) cis-1,3-DICHLOROPROPENE	12.800	75	237502	39.43 PPb	99
57) 4-METHYL-2-PENTANONE	12.889	58	288201	149.92 PPb	100
58) 1,1-DICHLOROPROPANONE	12.989	43	63611	47.57 PPb	99
59) TOLUENE	13.219	92	320985	38.81 PPb	100
60) trans-1,3-DICHLOROPROPENE	13.392	75	226736	39.74 PPb	97
61) ETHYL METHACRYLATE	13.413	69	219473	38.97 PPb	95
62) 1,1,2-TRICHLOROETHANE	13.623	83	114888	38.60 PPb	99
63) 1,3-DICHLOROPROPANE	13.822	76	232406	39.20 PPb	99
64) 2-HEXANONE	13.812	58	279217	150.48 PPb	98
65) TETRACHLOROETHYLENE	13.880	166	126855	38.81 PPb	98
66) DIBROMOCHLOROMETHANE	14.121	129	140980	40.38 PPb	98
67) 1,2-DIBROMOETHANE	14.284	107	137964	40.81 PPb	99
68) CHLOROBENZENE	14.808	112	355816	38.86 PPb	89
69) 1,1,1,2-TETRACHLOROETHANE	14.871	131	131903	39.06 PPb	100
70) ETHYLBENZENE	14.876	91	627365	38.60 PPb	99
71) m,p-XYLENE	14.991	106	476433	77.12 PPb	99
72) o-XYLENE	15.448	106	242742	39.23 PPb	96
73) STYRENE	15.448	104	418465	39.68 PPb	99
74) BROMOFORM	15.715	173	105013	39.56 PPb	98
75) ISOPROPYLBENZENE	15.820	105	630329	38.88 PPb	99
76) BROMOBENZENE	16.239	156	151654	38.84 PPb	96
77) 1,1,2,2-TETRACHLOROETHANE	16.103	83	211705	37.48 PPb	99
78) TRANS-1,4-DICHLORO-2-B...	16.145	53	56918	38.82 PPb	95
79) 1,2,3-TRICHLOROPROPANE	16.182	110	58387	37.81 PPb	99
80) n-PROPYLBENZENE	16.260	91	759676	38.42 PPb	100
81) O-CHLOROTOLUENE	16.418	126	145472	37.79 PPb	96
82) 1,3,5-TRIMETHYLBENZENE	16.418	105	549791	39.48 PPb	99
83) P-CHLOROTOLUENE	16.517	91	473761	37.46 PPb	99
84) tert-BUTYLBENZENE	16.800	119	466931	39.75 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.842	105	562424	38.67 PPb	100
86) PENTACHLOROETHANE	16.874	167	100247	41.20 PPb	98
87) sec-BUTYLBENZENE	17.031	105	712161	39.20 PPb	100
88) p-ISOPROPYLTOLUENE	17.152	119	582626	39.52 PPb	99
89) M-DICHLOROBENZENE	17.225	146	300279	38.24 PPb	98
90) P-DICHLOROBENZENE	17.314	146	311799	38.15 PPb	98
91) n-BUTYLBENZENE	17.592	92	317870	39.43 PPb	99
92) O-DICHLOROBENZENE	17.728	146	305995	37.96 PPb	99
93) HEXACHLOROETHANE	18.043	201	90616	42.25 PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51068.D
Acq On : 8 Dec 2010 10:47 pm
Operator : mohui
Sample : ic2336-40
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 07:52:42 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:32 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	1,2-DIBROMO-3-CHLOROPR...	18.525	155	38634	39.50	PPb	96
95)	NITROBENZENE	18.730	77	225493	442.71	PPb	97
96)	1,2,4-TRICHLOROBENZENE	19.422	180	245520	40.15	PPb	98
97)	HEXACHLOROBUTADIENE	19.558	225	112669	39.48	PPb	98
98)	NAPHTHALENE	19.710	128	742889	40.75	PPb	100
99)	1,2,3-TRICHLOROBENZENE	19.978	180	241018	40.53	PPb	97

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

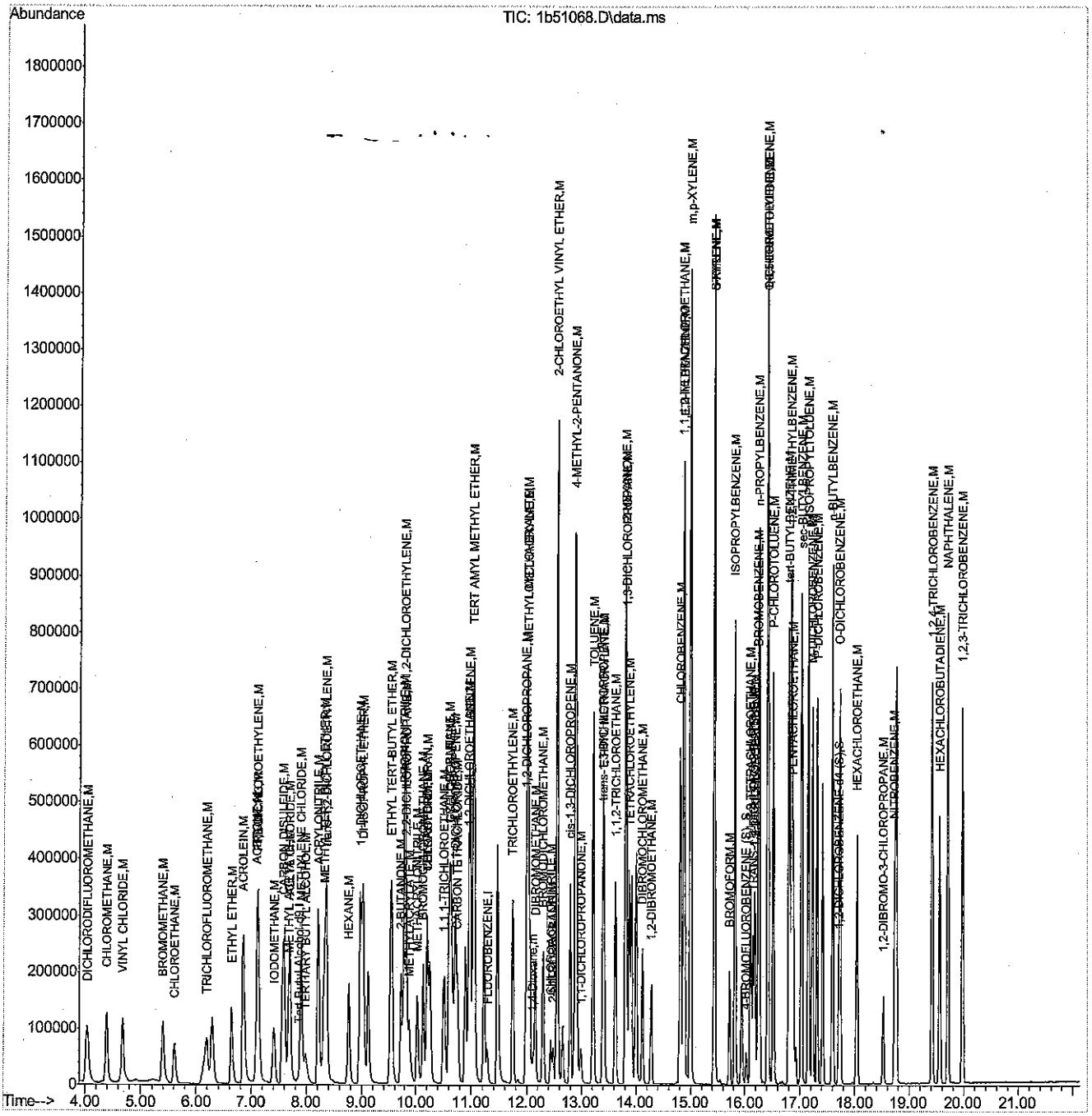
6.0.7 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51068.D
Acq On : 8 Dec 2010 10:47 pm
Operator : mohui
Sample : ic2336-40
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 09 07:52:42 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 07:52:32 2010
Response via : Initial Calibration

6.6.7



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51070.D
Acq On : 8 Dec 2010 11:51 pm
Operator : mohui
Sample : icv2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:46:00 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.856	65	25405	50.00	PPB		0.00
4) FLUOROBENZENE	11.280	96	64295	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.025	95	22487	4.90	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 98.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.708	152	22968	4.95	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 99.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.987	59	34954	56.29	PPb		99
3) 1,4-Dioxane	12.118	88	13489	309.20	PPB		92
7) DICHLORODIFLUOROMETHANE	4.028	85	47679	9.97	PPb		99
8) CHLOROMETHANE	4.369	50	58168	9.31	PPb		99
9) VINYL CHLORIDE	4.652	62	52095	10.63	PPb		99
10) BROMOMETHANE	5.386	94	31492	9.88	PPb		96
11) CHLOROETHANE	5.601	64	29793	10.17	PPb		100
12) TRICHLOROFLUOROMETHANE	6.173	101	49529	11.10	PPb		94
13) ETHYL ETHER	6.634	45	24461	9.17	PPb		97
14) ACROLEIN	6.844	56	106959	102.19	PPb		100
15) 1,1-DICHLOROETHYLENE	7.106	96	30448	9.75	PPb		99
16) FREON 113	7.111	151	21525	11.53	PPb		95
17) ACETONE	7.106	58	16229	41.27	PPb		94
18) IODOMETHANE	7.395	142	49144	9.87	PPb		98
19) CARBON DISULFIDE	7.573	76	113158	9.79	PPb		100
20) METHYL ACETATE	7.678	74	7777	9.96	PPb		96
21) ALLYL CHLORIDE	7.688	76	20401	9.91	PPb		91
22) METHYLENE CHLORIDE	7.893	84	43669	9.69	PPb		98
23) ACRYLONITRILE	8.212	53	94416	50.71	PPb		98
24) METHYL TERT BUTYL ETHER	8.323	73	246681	20.02	PPb		99
25) trans-1,2-DICHLOROETHY...	8.359	61	45731	9.14	PPb		97
26) HEXANE	8.768	57	34588	9.67	PPb		97
27) 1,1-DICHLOROETHANE	8.973	63	64641	10.27	PPb		99
28) DI-ISOPROPYL ETHER	9.020	45	136868	10.60	PPb		98
29) ETHYL TERT-BUTYL ETHER	9.539	59	132713	10.36	PPb		98
30) 2-BUTANONE	9.733	72	20493	41.77	PPb		97
31) 2,2-DICHLOROPROPANE	9.812	77	46825	9.47	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.796	96	43036	10.55	PPb		99
33) PROPIONITRILE	9.785	54	74903	99.80	PPb		97
34) METHYLACRYLATE	9.885	55	38900	10.05	PPb		100
35) METHACRYLONITRILE	10.021	41	26688	10.01	PPb		98
36) BROMOCHLOROMETHANE	10.126	128	17903	10.12	PPb		92
37) CHLOROFORM	10.194	83	61048	9.99	PPb		99
38) TETRAHYDROFURAN	10.200	42	18691	9.54	PPb		95
39) 1,1,1-TRICHLOROETHANE	10.504	97	48591	10.30	PPb		97
40) CYCLOHEXANE	10.624	84	50056	10.00	PPb	#	100
41) 1-CHLOROBUTANE	10.603	56	134094	10.30	PPb		97
42) 1,1-DICHLOROPROPENE	10.703	75	47208	10.53	PPb		99
43) CARBON TETRACHLORIDE	10.745	117	40294	10.50	PPb		100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51070.D
Acq On : 8 Dec 2010 11:51 pm
Operator : mohui
Sample : icv2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:46:00 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.944	62	47880	10.24 PPb	98
45) BENZENE	10.970	78	142119	10.13 PPb	99
46) TERT AMYL METHYL ETHER	11.038	73	130111	10.30 PPB	98
47) TRICHLOROETHYLENE	11.746	95	35030	10.59 PPb	97
48) METHYLCYCLOHEXANE	12.019	83	56492	11.19 PPb	99
49) METHYL METHACRYLATE	12.019	69	42728	9.99 PPb	95
50) 1,2-DICHLOROPROPANE	11.987	63	39693	10.33 PPb	98
51) DIBROMOMETHANE	12.155	93	23099	10.28 PPb	97
52) BROMODICHLOROMETHANE	12.297	83	47272	10.27 PPb	98
53) CHLOROACETONITRILE	12.444	75	14280	53.78 PPb	99
54) 2-NITROPROPANE	12.480	41	11964	10.34 PPb	97
55) 2-CHLOROETHYL VINYL ETHER	12.559	63	123367	42.39 PPb	100
56) cis-1,3-DICHLOROPROPENE	12.800	75	60699	10.07 PPb	99
57) 4-METHYL-2-PENTANONE	12.889	58	76471	40.04 PPb	99
58) 1,1-DICHLOROPROPANONE	12.994	43	14505	10.02 PPb	98
59) TOLUENE	13.220	92	84919	10.28 PPb	97
60) trans-1,3-DICHLOROPROPENE	13.398	75	57909	10.13 PPb	98
61) ETHYL METHACRYLATE	13.419	69	57779	10.27 PPb	97
62) 1,1,2-TRICHLOROETHANE	13.623	83	29532	9.95 PPb	98
63) 1,3-DICHLOROPROPANE	13.822	76	59499	10.04 PPb	96
64) 2-HEXANONE	13.812	58	73227	39.70 PPb	98
65) TETRACHLOROETHYLENE	13.880	166	34502	10.57 PPb	97
66) DIBROMOCHLOROMETHANE	14.116	129	34904	9.96 PPb	99
67) 1,2-DIBROMOETHANE	14.279	107	34998	10.30 PPb	99
68) CHLOROBENZENE	14.808	112	93201	10.19 PPb	96
69) 1,1,1,2-TETRACHLOROETHANE	14.871	131	33833	10.03 PPb	96
70) ETHYLBENZENE	14.876	91	164356	10.14 PPb	99
71) m,p-XYLENE	14.992	106	125996	20.45 PPb	100
72) o-XYLENE	15.448	106	65379	10.57 PPb	94
73) STYRENE	15.448	104	107054	10.14 PPb	100
74) BROMOFORM	15.715	173	25813	9.71 PPb	98
75) ISOPROPYLBENZENE	15.820	105	170062	10.50 PPb	100
76) BROMOBENZENE	16.240	156	39442	10.12 PPb	97
77) 1,1,2,2-TETRACHLOROETHANE	16.103	83	53308	9.50 PPb	100
78) TRANS-1,4-DICHLORO-2-B...	16.145	53	15555	10.63 PPb	92
79) 1,2,3-TRICHLOROPROPANE	16.182	110	15019	9.78 PPb	89
80) n-PROPYLBENZENE	16.261	91	197098	10.00 PPb	99
81) O-CHLOROTOLUENE	16.418	126	38435	10.04 PPb	97
82) 1,3,5-TRIMETHYLBENZENE	16.418	105	144136	10.34 PPb	100
83) P-CHLOROTOLUENE	16.517	91	122171	9.72 PPb	100
84) tert-BUTYLBENZENE	16.795	119	119306	10.14 PPb	96
85) 1,2,4-TRIMETHYLBENZENE	16.842	105	146749	10.11 PPb	99
86) PENTACHLOROETHANE	16.874	167	25795	10.53 PPb	97
87) sec-BUTYLBENZENE	17.026	105	188294	10.37 PPb	99
88) p-ISOPROPYLTOLUENE	17.152	119	155522	10.54 PPb	99
89) M-DICHLOROBENZENE	17.225	146	79745	10.19 PPb	99
90) P-DICHLOROBENZENE	17.314	146	80482	9.89 PPb	97
91) n-BUTYLBENZENE	17.592	92	85368	10.58 PPb	98
92) O-DICHLOROBENZENE	17.729	146	78875	9.83 PPb	100
93) HEXACHLOROETHANE	18.038	201	22911	10.57 PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51070.D
Acq On : 8 Dec 2010 11:51 pm
Operator : mohui
Sample : icv2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:46:00 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.525	155	9610	9.82	PPb	97
95) NITROBENZENE	18.735	77	51725	99.76	PPb	98
96) 1,2,4-TRICHLOROBENZENE	19.422	180	60479	9.86	PPb	100
97) HEXACHLOROBUTADIENE	19.558	225	28279	9.90	PPb	97
98) NAPHTHALENE	19.710	128	181400	9.90	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.978	180	59609	9.98	PPb	95

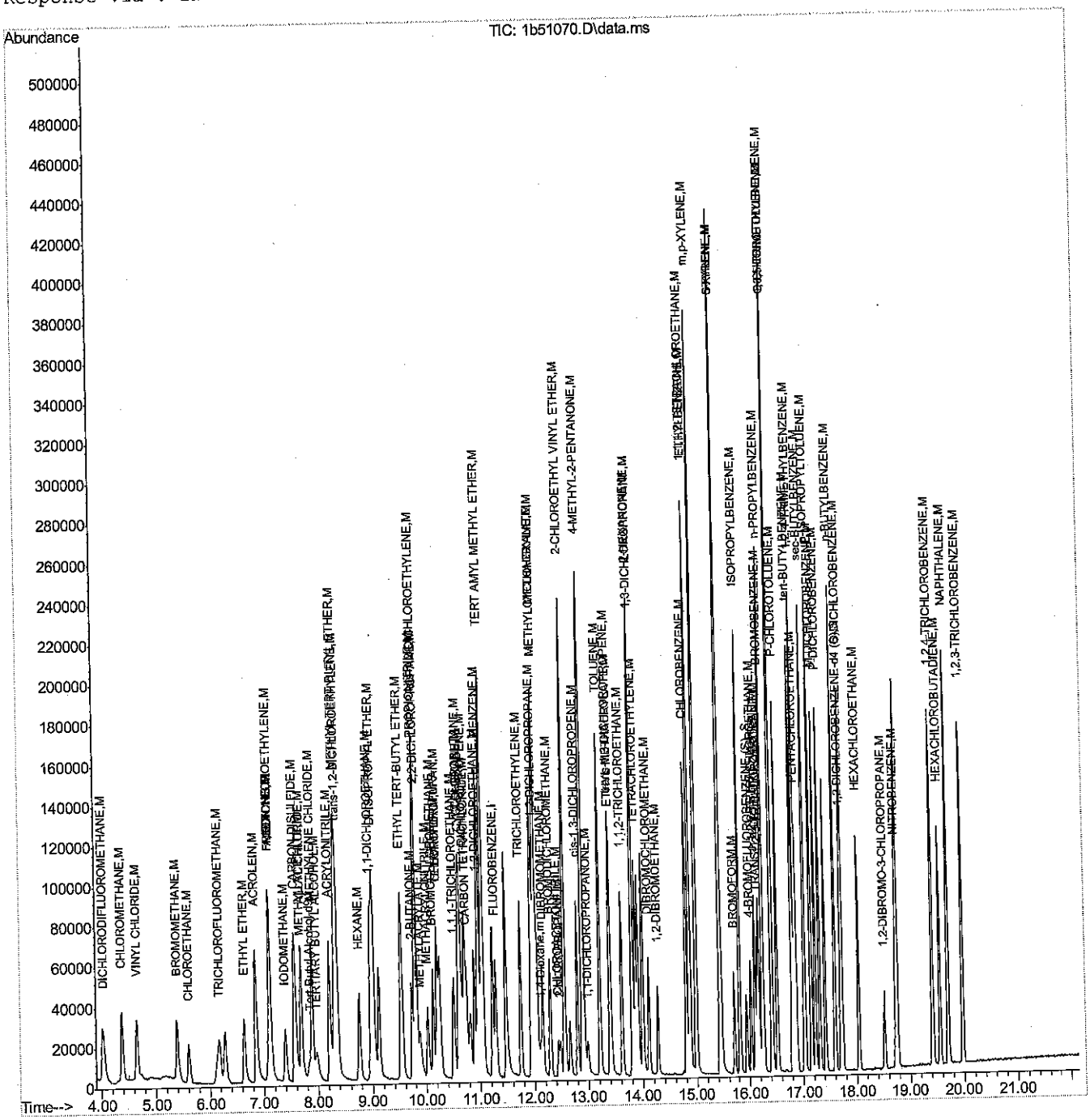
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51070.D
Acq On : 8 Dec 2010 11:51 pm
Operator : mohui
Sample : icv2336-10
Misc : MS5663,V1B2336,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 09 09:46:00 2010
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



M1B2336.M Thu Dec 09 09:53:40 2010 MS1B

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51762.D
Acq On : 3 Jan 2011 9:38 am
Operator : mohui
Sample : cc2336-10
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 10:02:41 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.851	65	23322	50.00	PPB		-0.01
4) FLUOROBENZENE	11.274	96	59564	5.00	PPb		-0.01
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	16.019	95	22270	5.23	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 104.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.697	152	21703	5.04	PPb		-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.976	59	28274	49.60	PPb		89
3) 1,4-Dioxane	12.108	88	12295	307.00	PPB		99
7) DICHLORODIFLUOROMETHANE	4.023	85	42551	9.60	PPb		98
8) CHLOROMETHANE	4.369	50	56253	9.72	PPb		100
9) VINYL CHLORIDE	4.652	62	46309	10.20	PPb		100
10) BROMOMETHANE	5.381	94	29530	10.00	PPb		96
11) CHLOROETHANE	5.596	64	28356	10.45	PPb		99
12) TRICHLOROFLUOROMETHANE	6.173	101	45602	11.03	PPb		96
13) ETHYL ETHER	6.629	45	20663	8.36	PPb		98
14) ACROLEIN	6.839	56	105214	108.50	PPb		98
15) 1,1-DICHLOROETHYLENE	7.101	96	25515	8.82	PPb		91
16) FREON 113	7.106	151	19168	11.08	PPb		93
17) ACETONE	7.101	58	15424	42.34	PPb		97
18) IODOMETHANE	7.389	142	45158	9.79	PPb		96
19) CARBON DISULFIDE	7.562	76	98692	9.21	PPb		100
20) METHYL ACETATE	7.672	74	8358	11.47	PPb	#	1
21) ALLYL CHLORIDE	7.683	76	17824	9.35	PPb		88
22) METHYLENE CHLORIDE	7.887	84	36319	8.69	PPb		99
23) ACRYLONITRILE	8.202	53	88998	51.60	PPb		98
24) METHYL TERT BUTYL ETHER	8.317	73	112823	9.88	PPb		99
25) trans-1,2-DICHLOROETHY...	8.354	61	43181	9.32	PPb		97
26) HEXANE	8.758	57	33366	10.07	PPb		97
27) 1,1-DICHLOROETHANE	8.967	63	57878	9.93	PPb		98
28) DI-ISOPROPYL ETHER	9.014	45	111080	9.29	PPb		94
29) ETHYL TERT-BUTYL ETHER	9.534	59	117452	9.89	PPb		97
30) 2-BUTANONE	9.722	72	20126	44.28	PPb		92
31) 2,2-DICHLOROPROPANE	9.806	77	47779	10.43	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.785	96	37065	9.81	PPb		96
33) PROPIONITRILE	9.775	54	75414	108.47	PPb		98
34) METHYLACRYLATE	9.869	55	36844	10.28	PPb		100
35) METHACRYLONITRILE	10.011	41	26413	10.70	PPb		98
36) BROMOCHLOROMETHANE	10.116	128	18421	11.25	PPb		87
37) CHLOROFORM	10.184	83	58763	10.38	PPb		97
38) TETRAHYDROFURAN	10.199	42	17545	9.67	PPb		88
39) 1,1,1-TRICHLOROETHANE	10.498	97	45437	10.40	PPb		97
40) CYCLOHEXANE	10.614	84	40826	8.80	PPb	#	100
41) 1-CHLOROBUTANE	10.587	56	108383	8.98	PPb		94
42) 1,1-DICHLOROPROPENE	10.698	75	40866	9.84	PPb		98
43) CARBON TETRACHLORIDE	10.734	117	38600	10.86	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51762.D
Acq On : 3 Jan 2011 9:38 am
Operator : mohui
Sample : cc2336-10
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 10:02:41 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,2-DICHLOROETHANE	10.939	62	48931	11.30	PPb	99
45)	BENZENE	10.960	78	128453	9.88	PPb	99
46)	TERT AMYL METHYL ETHER	11.028	73	116706	9.97	PPB	99
47)	TRICHLOROETHYLENE	11.736	95	32165	10.49	PPb	97
48)	METHYLCYCLOHEXANE	12.008	83	48064	10.28	PPb	97
49)	METHYL METHACRYLATE	12.008	69	39665	10.01	PPb	98
50)	1,2-DICHLOROPROPANE	11.982	63	37183	10.44	PPb	98
51)	DIBROMOMETHANE	12.150	93	23875	11.47	PPb	97
52)	BROMODICHLOROMETHANE	12.286	83	45864	10.75	PPb	99
53)	CHLOROACETONITRILE	12.433	75	15096	61.37	PPb	94
54)	2-NITROPROPANE	12.475	41	11790	11.00	PPb	95
55)	2-CHLOROETHYL VINYL ETHER	12.548	63	137264	50.91	PPb	97
56)	cis-1,3-DICHLOROPROPENE	12.789	75	61303	10.98	PPb	98
57)	4-METHYL-2-PENTANONE	12.879	58	71597	40.46	PPb	97
58)	1,1-DICHLOROPROPANONE	12.983	43	16471	12.29	PPb	97
59)	TOLUENE	13.209	92	82028	10.72	PPb	96
60)	trans-1,3-DICHLOROPROPENE	13.387	75	60357	11.40	PPb	98
61)	ETHYL METHACRYLATE	13.408	69	52273	10.03	PPb	96
62)	1,1,2-TRICHLOROETHANE	13.618	83	30721	11.17	PPb	97
63)	1,3-DICHLOROPROPANE	13.817	76	62537	11.39	PPb	94
64)	2-HEXANONE	13.801	58	68038	39.81	PPb	98
65)	TETRACHLOROETHYLENE	13.870	166	34063	11.27	PPb	94
66)	DIBROMOCHLOROMETHANE	14.111	129	37862	11.66	PPb	97
67)	1,2-DIBROMOETHANE	14.273	107	36343	11.54	PPb	98
68)	CHLOROBENZENE	14.803	112	96632	11.41	PPb	91
69)	1,1,1,2-TETRACHLOROETHANE	14.860	131	36738	11.75	PPb	98
70)	ETHYLBENZENE	14.871	91	161871	10.78	PPb	96
71)	m,p-XYLENE	14.986	106	129136	22.62	PPb	96
72)	o-XYLENE	15.437	106	65602	11.45	PPb	93
73)	STYRENE	15.442	104	103156	10.54	PPb	97
74)	BROMOFORM	15.710	173	28518	11.58	PPb	97
75)	ISOPROPYLBENZENE	15.809	105	167520	11.17	PPb	98
76)	BROMOBENZENE	16.234	156	42815	11.85	PPb	94
77)	1,1,2,2-TETRACHLOROETHANE	16.093	83	58207	11.19	PPb	100
78)	TRANS-1,4-DICHLORO-2-B...	16.135	53	16058	11.84	PPb	95
79)	1,2,3-TRICHLOROPROPANE	16.171	110	16889	11.87	PPb	88
80)	n-PROPYLBENZENE	16.250	91	201568	11.04	PPb	98
81)	O-CHLOROTOLUENE	16.407	126	41464	11.69	PPb	87
82)	1,3,5-TRIMETHYLBENZENE	16.412	105	146910	11.38	PPb	96
83)	P-CHLOROTOLUENE	16.507	91	127287	10.93	PPb	94
84)	tert-BUTYLBENZENE	16.790	119	112494	10.32	PPb	97
85)	1,2,4-TRIMETHYLBENZENE	16.832	105	134887	10.03	PPb	98
86)	PENTACHLOROETHANE	16.869	167	25066	11.04	PPb	97
87)	sec-BUTYLBENZENE	17.021	105	171756	10.21	PPb	99
88)	p-ISOPROPYLTOLUENE	17.146	119	143401	10.49	PPb	96
89)	M-DICHLOROBENZENE	17.220	146	76891	10.61	PPb	97
90)	P-DICHLOROBENZENE	17.304	146	80254	10.64	PPb	97
91)	n-BUTYLBENZENE	17.587	92	76430	10.23	PPb	98
92)	O-DICHLOROBENZENE	17.723	146	84021	11.30	PPb	98
93)	HEXACHLOROETHANE	18.032	201	21695	10.80	PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51762.D
Acq On : 3 Jan 2011 9:38 am
Operator : mohui
Sample : cc2336-10
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 10:02:41 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.515	155	9471	10.44	PPb	96
95) NITROBENZENE	18.725	77	52260	108.80	PPb	98
96) 1,2,4-TRICHLOROBENZENE	19.411	180	63717	11.21	PPb	98
97) HEXACHLOROBUTADIENE	19.553	225	28004	10.58	PPb	98
98) NAPHTHALENE	19.700	128	186384	10.98	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.972	180	63259	11.43	PPb	97

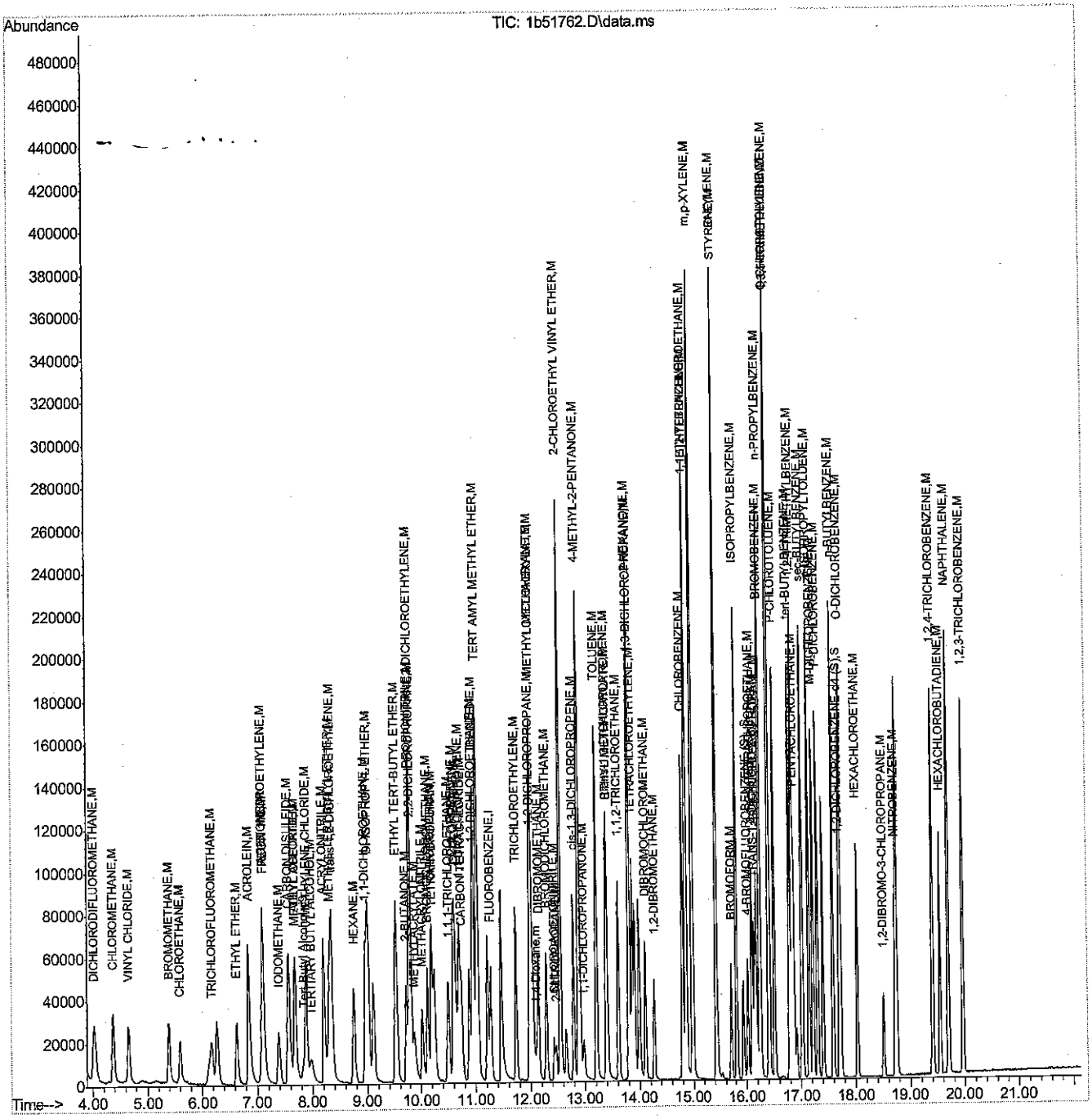
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.6.9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b51762.D
Acq On : 3 Jan 2011 9:38 am
Operator : mohui
Sample : cc2336-10
Misc : MS6764,V1B2368,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 10:02:41 2011
Quant Method : C:\msdchem\1\METHODS\M1B2336.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Dec 09 09:30:59 2010
Response via : Initial Calibration



M1B2336.M Tue Jan 04 08:55:20 2011 MS1B

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V1B2336

Print Analyst Name: Mohsin Hucha

Analyst Signature:

Date: 12/8/10

Columns: 624 60m x 0.25mm ID 1.4µm

Method V524

Initial Cal. Method MV1B2336

Standard Data

Lot #	Description	Conc.
W10980-158	BFB	100/1000
W10914-16	Cmpd L	100
-08	BFB	100-5000
-13	Cmpd Number	1000
-13	Cmpd K	1000/4000/8000

Standard Data

Lot #	Description	Conc.
W11914-11	BFB	100-1000
W13560-145	BFB	100-5000
W10414-31	Cmpd L	100
V011660-14	M	4000/8000
-147	K	1000
W10414-18	Number	1000

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 12/9/10

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	B51061	BFB				1	5.1						OK	7:03 pm	
	r1063	IL2336-0.5				3					-	+	OK	500 pg 536 ng mix	
	r1065	IL2336-1				7					-	-	OK		
	r1064	IL2336-2				4					-	-	OK		
	r1067	IL2336-5				5					-	-	OK		
	r1066	IL2336-10				6					-	-	OK		
	r1063	IL2336-20				7					-	-	OK		
	r1068	IL2336-40				8					-	-	OK		
	r1069	IB1				9									
	r1070	IL2336-10				10					-	-	OK	10ml IS/SA, B, DIL, Adms. → 100 ml	C
							MH 12/8								

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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6.7.1 9

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V1B2368

Print Analyst Name: Mohd Hanafi

Date: 1/3/11

Analyst Signature: [signature]

Columns: 624

Method: V 5xx

Initial Cal. Method: M1BV336

Standard Data

Lot #	Description	Conc.
WG94754-36	Ext A	100/1000
-53	Ext C	100
-54	Ext B	100-5000
-55	Ext Acrolein	1000
-64	Ext DK	300/600/900

Standard Data

Lot #	Description	Conc.
WG94754-51	A Std	100-1000
-42	B Std	100-5000
-56	C Std	100
-23	"	400/800
-35	"	300
-41	Acrolein	1000
-24	Acrolein	200/500

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 1/3

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	IB51361	BFB				1	5.1	—					OK	9:06 AM	
	51362	M2336-10				2						✓	OK	10 ml A, B, C, DK, Acrolein → 100 ml DI	
	51363	MBI				3				-	-	✓	OK		
	51364	BI				4						✓	OK	SM: Ext C & B, DK, Acrolein; 24: Ext C & B → 100 ml DI	
R	51365	TA65225-13	624 SIM	MW	2	5	10 / 50		5x			✓	OK		✓
	51366	TA65236-1		MW	4	6	5.1		1x			✓	OK		✓
	51367	TA65236-2		MW	5	7					-	✓	OK		✓
	51368	TA65236-3		MW	6	8					-	✓	OK		✓
	51369	TA65236-4		MW	7	9					-	✓	OK		✓
	51370	TA65236-5		MW	8	10					-	✓	OK		✓
	51371	TA65236-6		MW	9	11					-	✓	OK		✓
	51372	TA65236-7		MW	10	12					-	✓	OK		✓
	51373	TA65236-8		MW	11	13					-	✓	OK		✓
	51374	TA65236-1MS		MW	12	14					-	✓	OK	2 ml A, B, DK, Acrolein, 1 ml C → 50 ml Sample	✓
	51375	TA65236-1MSD		MW	13	15					-	✓	OK		✓
	51376	TA65225-12		MW	1	16					-	✓	OK		✓
	51377	TA65230-1	624 SIM Full Scan	MW	3	17				+	-	✓	OK		✓

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

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Form: OR001-9
Rev. Date: 2/14/2007

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ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V182368

Date: 1/3/11

Print Analyst Name: Mohammad Hasan

Analyst Signature:

Standard Data			Standard Data		
Lot #	Description	Conc.	Lot #	Description	Conc.

Columns: 2B-Low

Method 1534

Initial Cal. Method M1B2336

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 1/3

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	1851378	7465230-2	6608 Tert-Hex	W	1	18	5.0		1x	✓	✓	✓	OK		✓
	51379	7465230-3	↓	W	1	19				✓	✓	✓	OK		✓
	51380	7465290-1	624 0.25	W	1	20					✓	✓	OK		✓
	51381	7465290-2	↓	W	1	21					✓	✓	OK		✓
	51382	7465284-24	6608 Naphth-d8	S	1	22					✓	✓	OK		✓

1/3

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

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