

New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, New York 14414-9519
Phone: (585) 226-5353 • Fax: (585) 226-8139
Website: www.dec.ny.gov



Joe Martens
Acting Commissioner

February 16, 2011

Mr. Ricky A. Ryan, P.E.
Senior Principal Engineer/Project Manager
MACTEC Engineering and Consulting, Inc
9725 Cogdill Road
Knoxville, TN 37932

Dear Mr. Ryan:

**Subject: Former Taylor Instruments Site, Site #V00144-8
Addendum to Vapor Mitigation Measure Work Plan
Sub-Slab Vapor and Indoor Air Sampling at 7 Lynchford Park B Residence
January 17, 2011
City of Rochester, Monroe County**

The New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have completed their review of the above-referenced Addendum to Vapor Mitigation Measure Work Plan Sub-Slab Vapor and Indoor Air Sampling at 7 Lynchford Park B Residence dated January 17, 2011 (the Report) and prepared by MACTEC Engineering and Consulting, Inc (MACTEC) for the former Taylor Instruments site. The Report provides the vapor intrusion sampling results for the off-site property located at 7 Lynchford Park B. Based upon the information and representations made in the Report, the Report is hereby approved.

Please contact me at 585-226-5357 if you have any questions about this project.

Sincerely,

Frank Sowers, P.E.
Environmental Engineer 2

ec:

B. Putzig
K. Comerford
J. Kosmala
J. McCreary
L. Ford
J. Conant



engineering and constructing a better tomorrow

January 17, 2011

Mr. Frank Sowers, P.E.
Environmental Engineer 2
New York State Department of Environmental Conservation
Region 8 – Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, NY 14414

Subject: **Addendum to Vapor Mitigation Measure Work Plan
Sub-Slab Vapor and Indoor Air Sampling at 7 Lynchford Park B Residence
Former Taylor Instruments Site #V00144-8
Rochester, New York
VCA Index #B8-0508-97-02
MACTEC Project Number 3031052006/12**

Dear Mr. Sowers:

On behalf of ABB, Inc. (ABB), MACTEC Engineering and Consulting, Inc. (MACTEC) has prepared this letter which serves as an addendum to MACTEC's July 2010 *Vapor Mitigation Measure Work Plan for 80 Ames Street and 215 Danforth Street* (MACTEC, 2010a). Included in that Work Plan were the results of a sub-slab vapor and indoor air (SSIA) investigation performed at six houses (seven residences) near the Former Taylor Instruments Site (the Site) located at 95 Ames Street in Rochester, New York. One additional residence, 7 Lynchford Park B, was also proposed for the SSIA investigation; however, ABB and MACTEC did not receive a signed access agreement from the owner until late May 2010, after completion of the SSIA investigation and outside of the heating season. After consultation with the New York State Department of Health (NYSDOH), it was decided that 7 Lynchford Park B would be sampled after the start of the subsequent heating season in November 2010 (MACTEC, 2010b), with results submitted via an addendum letter (MACTEC, 2010a). This addendum letter presents the results of a SSIA investigation performed at the 7 Lynchford Park B residence during November 15 and 16, 2010. The results contained herein indicate that no further action is required.

Sub-Slab Vapor and Indoor Air Sampling

MACTEC collected sub-slab vapor and indoor air samples at 7 Lynchford Park B near the Site during November 15 and 16, 2010. The residence is shown on Figure 1 (Attachment A). The air samples were collected consistent with the procedures and techniques described in the NYSDOH *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (NYSDOH, 2006).

The targeted sampling approach for the residence included:

- Completion of the NYSDOH Indoor Air Quality Questionnaire and Building Inventory (Attachment B),
- Collection of one sub-slab vapor and one indoor air sample from the residence basement,
- Collection of an outdoor ambient air sample during the sampling event for comparison to the indoor air sample.

Pre-Sampling Inspection and Collection of Samples

The pre-sampling inspection and sample collection procedures followed those detailed in the *Vapor Mitigation Measure Work Plan* (MACTEC, 2010a). One sub-slab vapor sample, one indoor air sample, and one outdoor ambient air sample were collected. Selected photographs of the residence basement, including the floor slab, household products, and sample locations are provided in Attachment C. The residence was a two-story, wood-frame house with an unfinished basement.

The basement at 7 Lynchford Park B is used primarily for laundry and storage. The basement slab was in overall good condition, though much of the slab could not be viewed due to stored items. Limited containers of cleaning products (e.g., disinfectants, bleach) were observed in the corner of the basement on top of the dryer. Ambient photoionization detector (PID) readings throughout the basement ranged from 50 to 95 parts per billion (ppb); when the PID was held near the household cleaning products it read similar concentrations (55 to 122 ppb). Because the source of the ambient indoor PID readings was not directly identified, and because none of the chemicals had any contaminants of concern (COCs) listed as ingredients, MACTEC proceeded with the sampling.

During helium leak tests before and after sampling, helium was not detected in the sample port. Consistent with the NYSDOH *Guidance* (NYSDOH, 2006), the helium leak tests results were judged acceptable.

Quality Assurance

Concurrent with sub-slab vapor and indoor air sample collection, an outdoor ambient air sample was collected during the 24-hour indoor sampling activity to evaluate the potential influence, if any, of outdoor air on indoor air quality. The outdoor air sample was collected by staging a clean-certified SUMMA[®] canister with a certified 24-hour flow regulator at an interpreted upwind location on the porch of 7 Lynchford Park B. The outdoor ambient PID readings measured during outdoor air sampling were less than 0.1 ppb. The weather was cool to cold, and no unusual odors were noted. The sampling procedures, including flow rates and volume determination, followed those for indoor air sampling.

One duplicate indoor air samples (IA-08 Dup) was collected to assess the precision of the sampling methods as well as laboratory data. The duplicate sample was collected in accordance with the indoor air sampling procedures.

For all samples, pertinent information including the time of sample collection, starting and ending canister vacuum (inches mercury [in/Hg]), PID measurements, etc., was recorded in a field log book and on sampling record forms (Attachment D).

Laboratory Analytical Testing

Vacuum measurements were collected from each sample canister upon retrieval in the field and receipt by the project laboratory. Zero-vacuum was not observed in any of the canisters.

All vapor samples were submitted to Con-Test Analytical Laboratory under chain-of-custody protocol for analyses of the four volatile organic compound (VOC) COCs using United States Environmental Protection Agency (EPA) Method TO-15. The selected VOCs are as follows:

- Tetrachloroethene (PCE);
- Trichloroethene (TCE);
- cis-1,2-dichloroethene (DCE); and
- Vinyl chloride (VC).

For undiluted samples using EPA Method TO-15 for VOCs, Con-Test has standard reporting limits of 1 microgram per cubic meter ($\mu\text{g}/\text{m}^3$) or less for sub-slab vapor and $0.25 \mu\text{g}/\text{m}^3$ or less for indoor air and outdoor ambient air. The analytical results were used in conjunction with the Soil Vapor/Indoor Air

Matrix tables in the NYSDOH 2006 Guidance document (NYSDOH, 2006) to aid in the assessment of soil vapor intrusion at the residences. In accordance a June 25, 2007 NYSDOH letter (NYSDOH, 2007), TCE and VC concentrations were evaluated by using Matrix 1 guidance values, while PCE and DCE were evaluated using Matrix 2 guidance values.

Data Usability Assessment

MACTEC reviewed the laboratory results from the sampling event to establish that the results met data quality objectives. The project chemists' review was completed based on New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for Data Usability Summary Reports* (DUSR) (NYSDEC, 2002). The review included evaluations of sample collection, data package completeness, holding times, quality control data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification.

One sub-slab vapor sample (SS-08), one indoor air sample (IA-08), one outdoor ambient air sample (AA-06), and one duplicate indoor air sample (IA-08 Dup) were analyzed by Con-Test Analytical Laboratory for Site COCs by EPA Method TO-15. Con-Test provided Category B deliverables as defined in the NYSDEC *Analytical Services Protocols* (NYSDEC, 2005), copies of which are provided in Attachment E.

The DUSRs are provided in Attachment F. The results are interpreted to be usable as reported by the laboratory.

Vapor Investigation Results

The analytical results for all samples are presented in Table 1 and are summarized afterward. ABB has provided these results to the appropriate property owners and tenants.

Low concentrations of PCE were detected in sub-slab vapor ($1.0 \mu\text{g}/\text{m}^3$) and in the indoor air ($0.24 \mu\text{g}/\text{m}^3$) at 7 Lynchford Park B. The detected PCE concentrations are well below the NYSDOH air guidance value of $100 \mu\text{g}/\text{m}^3$ for PCE. TCE was detected in sub-slab vapor at a concentration of $2.9 \mu\text{g}/\text{m}^3$; below the NYSDOH air guidance value of $5 \mu\text{g}/\text{m}^3$ for TCE. TCE was not detected in the indoor air sample at this residence, and no other COCs were detected in the sub-slab vapor or indoor air samples. The NYSDOH Matrix Table guidance for this residence is no further action.

A low concentration of TCE ($0.88 \mu\text{g}/\text{m}^3$) was reported in the ambient air sample (AA-06) collected during the indoor air sampling period. No other COCs were detected in the ambient air samples. The presence of TCE in the ambient outdoor air may be attributable to nearby industries.

TCE was reported in the field duplicate (IA-08 DUP) but not in the primary indoor air sample (IA-08), while PCE was reported in the primary sample but not in the field duplicate. In both cases the concentrations detected were at or near the reporting limit, and as detailed in the DUSR the differences in the results are not interpreted to indicate a significant precision problem with the data set. Results for TCE and PCE in the primary indoor air sample (IA-08) were qualified estimated in the DUSR.

Table 1
Sub-Slab Vapor and Indoor Air Analytical Results and NYSDOH Matrix Guidance
7 Lynchford Park B Residence in Rochester, New York

Sample ID/Location	PCE ($\mu\text{g}/\text{m}^3$)	TCE ($\mu\text{g}/\text{m}^3$)	cis-1,2- DCE ($\mu\text{g}/\text{m}^3$)	VC ($\mu\text{g}/\text{m}^3$)	NYSDOH Matrix Table 1 Guidance (TCE and VC)	NYSDOH Matrix Table 2 Guidance (PCE and DCE)
SS-08/ 7 Lynchford Park B Sub-Slab	1.0	2.9	0.40 U	0.26 U	NFA	NFA
IA-08/ 7 Lynchford Park B Indoor Air	0.24 J	0.19 UJ	0.14 U	0.09 U		
IA-08 DUP (Duplicate Indoor Air)	0.24 UJ	0.21 J	0.14 U	0.09 U	NA	
AA-06/Ambient (Outdoor) Air	0.24 U	0.88	0.14 U	0.09 U	NA	
Notes: $\mu\text{g}/\text{m}^3$ = micrograms per cubic meter cis-1,2-DCE = cis-,1,2-dichloroethene ID = identification J = estimated (qualifier applied by project chemist) NA = not applicable NFA = no further action NYSDOH = New York State Department of Health PCE = tetrachloroethene TCE = trichloroethene U = not detected VC = vinyl chloride					Prepared by/Date: <u>KJD/12-15-10</u> Checked by/Date: <u>CRW/12-16-10</u>	

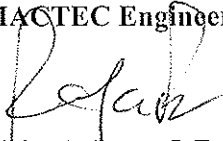
Conclusions and Recommendations

The primary goal of this SSIA investigation was to determine whether selected VOCs (i.e., PCE, TCE, cis-1,2-DCE, and VC) are present at levels requiring further investigation or mitigation in the sub-slab vapor or indoor air at 7 Lynchford Park B. Based on the review of results from this investigation, the NYSDOH Soil Vapor/Indoor Air Matrix tables indicate that no further action is warranted at this residence. Therefore, the sampling of 7 Lynchford Park B concludes the SSIA investigation at the off-Site residences.

Mr. Sowers, should you have any questions regarding this addendum, please contact one of us at (865) 588-8544 (ext. 1113 or 1149), or via email at raryan@mactec.com.

Sincerely,

MACTEC Engineering and Consulting, Inc.




Ricky A. Ryan, P.E.
Senior Principal/Project Manager

[1032]

cc w/ enc:

Bart Putzig, NYSDEC (*electronic*)
James D. Charles, NYSDEC
Katherine Comerford, NYSDOH (*electronic*)
Jeffrey Kosmala, MCHD



K. Joe Deatherage
Senior Environmental Engineer

Jean McCreary, Nixon Peabody LLP (*electronic*)
Libby Ford, Nixon Peabody LLP (*electronic*)
Nelson Walter, MACTEC (*electronic*)
Melody Christopher, ABB (*electronic + hard copy*)

References

MACTEC, 2010a. *Vapor Mitigation Measure Work Plan for 80 Ames Street and 215 Danforth Street*. Former Taylor Instruments Site, Rochester, New York. Prepared for ABB, Inc. July.

MACTEC, 2010b. Email from Mr. Ricky A. Ryan with MACTEC Engineering and Consulting, Inc., to Mr. Frank Sowers with the New York State Department of Environmental Conservation and Ms. Katherine Comerford with the New York State Department of Health. May 28.

NYSDEC, 2002. *Guidance for the Development of Data Usability Reports*. Prepared by the New York State Department of Environmental Conservation Division of Environmental Remediation.

NYSDEC, 2005. *Analytical Services Protocols*. Prepared by the New York State Department of Environmental Conservation. July.

NYSDOH, 2006. *Guidance for Evaluating Soil Vapor Intrusion in the State of New York*. Prepared by the New York State Department of Health. October.

NYSDOH, 2007. Letter from Mr. Gary A. Litwin to Mr. Dale Desnoyers with the New York State Department of Environmental Conservation. June 25.

ACRONYM LIST

$\mu\text{g}/\text{m}^3$	microgram per cubic meter
ABB	ABB, Inc.
COC	contaminant of concern
DCE	dichloroethene
DUSR	Data Usability Summary Reports
EPA	Environmental Protection Agency (United States)
in/Hg	inches mercury
MACTEC	MACTEC Engineering and Consulting, Inc.
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethene
PID	photoionization detector
ppb	parts per billion
Site	Former Taylor Instruments Site
SSIA	sub-slab vapor and indoor air
TCE	trichloroethene
VC	vinyl chloride
VOC	volatile organic compound

ATTACHMENT A

FIGURE



NFA = no further action warranted
 SSD = sub-slab depressurization system installed

Note: Results from other residences previously sampled are also depicted.

Prepared by: KJD 12/15/2010
 Checked by: CRW 12/13/2010



Figure 1 - Sub-Slab Vapor and Indoor Air Sampling Residence at 7 Lynchford Park B

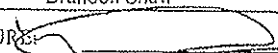
Former Taylor Instruments Site
 Rochester, New York

Project 3031052006-12

ATTACHMENT D

SUB-SLAB VAPOR AND INDOOR AIR SAMPLING RECORDS

INDOOR AIR SAMPLING RECORD

PROJECT NAME:	ABB Former Taylor Site	LOCATION ID:	Structure 08	DATE:	11/15/2010
PROJECT NO./TASK NO.:	3031052006-12	CLIENT:	ABB		
PROJECT LOCATION:	Rochester, New York	SAMPLER NAME:	Brandon Shaw		
WEATHER CONDITIONS:	30 F, dark, windy, cold	SAMPLER SIGNATURE:			
		CHECKED BY:	KSP	DATE:	12-9-10

SUMMA Canister Record Information

SUB-SLAB SOIL VAPOR SAMPLE		INDOOR AIR - BASEMENT		INDOOR AIR - BASEMENT DUPE		ASSOCIATED AMBIENT AIR	
Flow Regulator Number:	3352	Flow Regulator Number:	3079	Flow Regulator Number:	3417	Flow Regulator Number:	3433
Flow Rate (mL/min):	~ 4	Flow Rate (mL/min):	~ 4	Flow Rate (mL/min):	~ 4	Flow Rate (mL/min):	~ 4
Canister Serial Number:	1259	Canister Serial Number:	1661	Canister Serial Number:	1036	Canister Serial Number:	1283
Start Time: 11/15/2010 @ 1907		Start Time: 11/15/2010 @ 1910		Start Time: 11/15/2010 @ 1910		Start Time: 11/15/2010 @ 1923	
Start Pressure ("Hg):	-30	Start Pressure ("Hg):	-29	Start Pressure ("Hg):	-30+	Start Pressure ("Hg):	-30
Stop Time: 11/16/2010 @ 1815		Stop Time: 11/16/2010 @ 1815		Stop Time: 11/16/2010 @ 1815		Stop Time: 11/16/2010 @ 1839	
Stop Pressure ("Hg):	-10	Stop Pressure ("Hg):	-10	Stop Pressure ("Hg):	-11	Stop Pressure ("Hg):	-11
Sample ID:	SS-08	Sample ID:	IA-08	Sample ID:	IA-08DUP	Sample ID:	AA-06

Other Sampling Information:

Basement Type	Unfinished	Story/Level:	Basement	Story/Level:	Basement	Direction from Building:	East
Floor Slab Thickness:	~5 inches	Room:	Storage	Room:	Storage	Distance from Building:	20'
Potential Vapor Entry Points:	NA	Potential Vapor Entry Points:	Sump	Potential Vapor Entry Points:	Sump	Distance from Roadway:	~100'
Floor Surface:	Concrete	Floor Surface:	Concrete	Floor Surface:	Concrete	Ground Surface:	Grass
Noticable Odor:	NA	Noticable Odor:	Smoke	Noticable Odor:	Smoke	Noticable Odor:	None
PID Reading (ppb):	3,100	PID Reading (ppb):	80	PID Reading (ppb):	80	PID Reading (ppb):	< 0.1
Intake Depth/Height:	~9 inches	Intake Height:	~5'	Intake Height:	~5'	Intake Height Above Ground Surface:	~6'
Helium Test Conducted?	Yes	Indoor Air Temp:	68 F	Indoor Air Temp:	68 F	Intake Tubing Used?	Yes

Comments/Location Sketch:



511 Congress Street, Portland, ME 04101

ATTACHMENT E
LABORATORY CATEGORY B ANALYTICAL REPORTS
(SEE ENCLOSED CD)



ENHANCED DATA PACKAGE

WORK ORDER# 10K0616

Client: Mactec, Inc. - TN

Project Location: Rochester - NY

Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Phone: 413.525.2332
Fax: 413.525.6405
Email: info@contestlabs.com
www.contestlabs.com



TABLE OF CONTENTS
Modified TO-15
WORK ORDER# 10K0616
CLIENT: Mactec, Inc. - TN

	Page Numbers	
	From	To
1. Analytical Summary	1	3
a. Narrative		
2. Analytical Results (PPBv followed by Ug/M3)	4	8
a. TO-15 Prep		
3. QC Summary Report	9	11
a. Surrogate Recovery		
b. Method Blank		
c. Second Source LCS		
d. Flag/Qualifier Summary		
e. Certifications and Accreditations		
4. Raw Data (ICAL) (05-24-10) standard compound list	12	50
a. GCMS Sequence Summary		
b. Autosampler Sequence Summary		
c. Non-Conformance Form		
d. BFB		
e. Method Blank Raw Data		
f. ICAL Summary Table		
g. Linear Regression Plots		
h. Curve - Raw Data		
i. Second Source Table and Raw Data		
5. Raw Data (Samples) 11-21-10	51	124
a. GCMS Sequence Summary		
b. Autosampler Sequence Summary		
c. IS Summary		
d. Non-Conformance Form		
e. BFB		
f. Continuting Table and Raw Data		
g. Second Source Table and Raw		
h. Method Blank Raw Data		
i. Sample Raw Data		
6. Shipping/Receiving Documents	125	127
a. Login Receipt Summary Sheet		
b. Chain-of-Custody Records		
c. Shipping Documents		

Comments:

Completed by:

Tod Kopyscinski/Air Lab Manager 12-02-10

Signature

(Print Name / Title)

Date

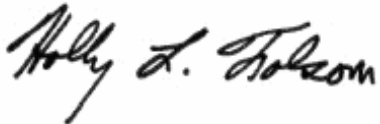
November 24, 2010

Joe Deatherage
Mactec, Inc - TN
9725 Cogdill Road
Knoxville, TN 37932

Project Location: Rochester, NY
Client Job Number:
Project Number: 3031052006.12
Laboratory Work Order Number: 10K0616

Enclosed are results of analyses for samples received by the laboratory on November 17, 2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Holly L. Folsom". The signature is written in a cursive style with a large, prominent "H" and "F".

Holly L. Folsom
Project Manager

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Mactec, Inc - TN
9725 Cogdill Road
Knoxville, TN 37932
ATTN: Joe Deatherage

REPORT DATE: 11/24/2010

PURCHASE ORDER NUMBER: 201015552

PROJECT NUMBER: 3031052006.12

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 10K0616

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Rochester, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SS-08	10K0616-01	Air		EPA TO-15	
IA-08	10K0616-02	Air		EPA TO-15	
IA-08 DUP	10K0616-03	Air		EPA TO-15	
AA-06	10K0616-04	Air		EPA TO-15	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Daren J. Damboragian", is written over a light gray rectangular background.

Daren J. Damboragian
Laboratory Manager

ANALYTICAL RESULTS

Project Location: Rochester, NY
 Date Received: 11/17/2010
Field Sample #: SS-08
Sample ID: 10K0616-01
 Sample Matrix: Air
 Sampled: 11/16/2010 00:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1259
 Canister Size: 6 liter
 Flow Controller ID: 3352
 Sample Type: 24 hr

Work Order: 10K0616
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -10
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.10		ND	0.40	2	11/22/10	9:34	WSD
Tetrachloroethylene	0.15	0.10		1.0	0.68	2	11/22/10	9:34	WSD
Trichloroethylene	0.55	0.10		2.9	0.54	2	11/22/10	9:34	WSD
Vinyl Chloride	ND	0.10		ND	0.26	2	11/22/10	9:34	WSD

Surrogates	% Recovery		% REC Limits		Date/Time
4-Bromofluorobenzene (1)	94.1		70-130		11/22/10 9:34

ANALYTICAL RESULTS

Project Location: Rochester, NY
 Date Received: 11/17/2010
Field Sample #: IA-08
Sample ID: 10K0616-02
 Sample Matrix: Air
 Sampled: 11/16/2010 00:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1661
 Canister Size: 6 liter
 Flow Controller ID: 3079
 Sample Type: 24 hr

Work Order: 10K0616
 Initial Vacuum(in Hg): -29
 Final Vacuum(in Hg): -10
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10	2:45	WSD
Tetrachloroethylene	0.035	0.035		0.24	0.24	0.702	11/22/10	2:45	WSD
Trichloroethylene	ND	0.035		ND	0.19	0.702	11/22/10	2:45	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10	2:45	WSD
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	92.2			70-130			11/22/10	2:45	

ANALYTICAL RESULTS

Project Location: Rochester, NY
 Date Received: 11/17/2010
Field Sample #: IA-08 DUP
Sample ID: 10K0616-03
 Sample Matrix: Air
 Sampled: 11/16/2010 00:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1036
 Canister Size: 6 liter
 Flow Controller ID: 3417
 Sample Type: 24 hr

Work Order: 10K0616
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -11
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Dilution	Date/Time		Analyst
	Results	RL		Results	RL		Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10	1:56	WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	11/22/10	1:56	WSD
Trichloroethylene	0.039	0.035		0.21	0.19	0.702	11/22/10	1:56	WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10	1:56	WSD
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	93.0			70-130			11/22/10	1:56	

ANALYTICAL RESULTS

Project Location: Rochester, NY
 Date Received: 11/17/2010
Field Sample #: AA-06
Sample ID: 10K0616-04
 Sample Matrix: Air
 Sampled: 11/16/2010 00:00

Sample Description/Location:
 Sub Description/Location:
 Canister ID: 1283
 Canister Size: 6 liter
 Flow Controller ID: 3433
 Sample Type: 24 hr

Work Order: 10K0616
 Initial Vacuum(in Hg): -30
 Final Vacuum(in Hg): -11
 Receipt Vacuum(in Hg): -10
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling:

EPA TO-15

Analyte	ppbv		Flag	ug/m3		Date/Time			Analyst
	Results	RL		Results	RL	Dilution	Analyzed		
cis-1,2-Dichloroethylene	ND	0.035		ND	0.14	0.702	11/22/10 1:09		WSD
Tetrachloroethylene	ND	0.035		ND	0.24	0.702	11/22/10 1:09		WSD
Trichloroethylene	0.16	0.035		0.88	0.19	0.702	11/22/10 1:09		WSD
Vinyl Chloride	ND	0.035		ND	0.090	0.702	11/22/10 1:09		WSD
Surrogates	% Recovery			% REC Limits					
4-Bromofluorobenzene (1)	91.9			70-130			11/22/10 1:09		

Sample Extraction Data

Prep Method: TO-15 Prep-EPA TO-15

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
10K0616-01 [SS-08]	B022792	1.5	1	N/A	1000	400	300	11/21/10
10K0616-02 [IA-08]	B022792	1.5	1	N/A	1000	400	855	11/21/10
10K0616-03 [IA-08 DUP]	B022792	1.5	1	N/A	1000	400	855	11/21/10
10K0616-04 [AA-06]	B022792	1.5	1	N/A	1000	400	855	11/21/10

QUALITY CONTROL

Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	RPD	Limit	Flag
	Results	RL	Results	RL	ppbv	Result	%REC				

Batch B022792 - TO-15 Prep

Blank (B022792-BLK1)

Prepared & Analyzed: 11/21/10

cis-1,2-Dichloroethylene	ND	0.025									
Tetrachloroethylene	ND	0.025									
Trichloroethylene	ND	0.025									
Vinyl Chloride	ND	0.025									
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.33				8.00		91.6			70-130	

LCS (B022792-BS1)

Prepared & Analyzed: 11/21/10

cis-1,2-Dichloroethylene	4.64				5.00		92.8			70-130	
Tetrachloroethylene	4.32				5.00		86.5			70-130	
Trichloroethylene	4.69				5.00		93.8			70-130	
Vinyl Chloride	4.01				5.00		80.3			70-130	
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	7.59				8.00		94.8			70-130	

FLAG/QUALIFIER SUMMARY

- * QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
cis-1,2-Dichloroethylene	AIHA,FL,NY
Tetrachloroethylene	AIHA,FL,NJ,NY
Trichloroethylene	AIHA,FL,NJ,NY
Vinyl Chloride	AIHA,FL,NJ,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2011
CT	Connecticut Department of Public Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2011
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2011
RI	Rhode Island Department of Health	LAO00112	12/30/2010
NC	North Carolina Div. of Water Quality	652	12/31/2010
NJ	New Jersey DEP	MA007 NELAP	06/30/2011
FL	Florida Department of Health	E871027 NELAP	06/30/2011
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2011
WA	State of Washington Department of Ecology	C2065	02/23/2011

Injection Log

Directory: D:\HPCHEM\1\DATA\B052410

12

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	4	B052401.d	1.	BFB	CTWS-2519	24 May 2010 12:26
2	4	B052402.d	1.	9.38PPBv CCV	CTWS-2517	24 May 2010 13:05
3	5	B052403.d	1.	9.38PPBv LCS	CTWS-2518	24 May 2010 13:45
4	1	B052404.d	1.	CLUP *	CTWS-2513	24 May 2010 14:26
5	1	B052405.d	1.	0.025PPBv STD	CTWS-2513	24 May 2010 15:06
6	1	B052406.d	1.	0.05PPBv STD	CTWS-2513	24 May 2010 15:46
7	1	B052407.d	1.	0.1PPBv STD	CTWS-2513	24 May 2010 16:26
8	1	B052408.d	1.	0.2PPBv STD	CTWS-2513	24 May 2010 17:06
9	1	B052409.d	1.	0.5PPBv STD	CTWS-2513	24 May 2010 17:46
10	2	B052410.d	1.	2.0PPBv STD	CTWS-2514	24 May 2010 18:27
11	2	B052411.d	1.	5.0PPBv STD	CTWS-2514	24 May 2010 19:10
12	2	B052412.d	1.	10PPBv STD	CTWS-2514	24 May 2010 19:52
13	2	B052413.d	1.	20PPBv STD	CTWS-2514	24 May 2010 20:34
14	2	B052414.d	1.	50PPBv STD	CTWS-2514	24 May 2010 21:21
15	3	B052415.d	1.	5.0PPBv LCS		24 May 2010 23:32
16	21	B052416.d	1.	CLUP *		25 May 2010 00:13
17	21	B052417.d	1.	MBL 0.5X		25 May 2010 00:57
18	1	B052418.d	1.	0.05PPBv STD	CTWS-2513	25 May 2010 12:40
19	2	B052419.d	1.	0.5PPBv STD	CTWS-2514	25 May 2010 13:20

Re-ran data points to achieve better results, however they did not work due to possible contamination as the MBL before points was

* NOT USED

- Re-ran data points to confirm that the multi-conister calibration levels were correct. Original calibration was within acceptance criteria. Analyses B052418.d and B052419.d not used and not needed.

Sequence Name: C:\SMART\052410.SEQ
Date: 07-12-2010
Time: 15:40:50
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
BFB	1	4	100	0	C:\SMART\051010.CTD	12:00
9.38PPBv CCV	1	4	100	0	C:\SMART\051010.CTD	12:00
9.38PPBv LCS	1	5	100	0	C:\SMART\051010.CTD	12:00
CLUP	1	1	10	0	C:\SMART\051010.CTD	12:00
0.05PPBv STD	1	1	20	0	C:\SMART\051010.CTD	12:00
0.1PPBv STD	1	1	40	0	C:\SMART\051010.CTD	12:00
0.2PPBv STD	1	1	80	0	C:\SMART\051010.CTD	12:00
0.5PPBv STD	1	1	200	0	C:\SMART\051010.CTD	12:00
2.0PPBv STD	1	2	40	0	C:\SMART\051010.CTD	12:00
5.0PPBv STD	1	2	100	0	C:\SMART\051010.CTD	12:00
10PPBv STD	1	2	200	0	C:\SMART\051010.CTD	12:00
20PPBv STD	1	2	400	0	C:\SMART\051010.CTD	12:00
50PPBv STD	1	2	1000	0	C:\SMART\051010.CTD	12:00
5.0PPBv LCS	1	3	100	0	C:\SMART\051010.CTD	12:00
CLUP	2	1	100	0	C:\SMART\051010.CTD	12:00
MBL 0.5X	2	1	800	0	C:\SMART\051010.CTD	12:00
0.05PPBv STD	1	1	20	0	C:\SMART\051010.CTD	12:00
0.5PPBv STD	1	2	10	0	C:\SMART\051010.CTD	12:00

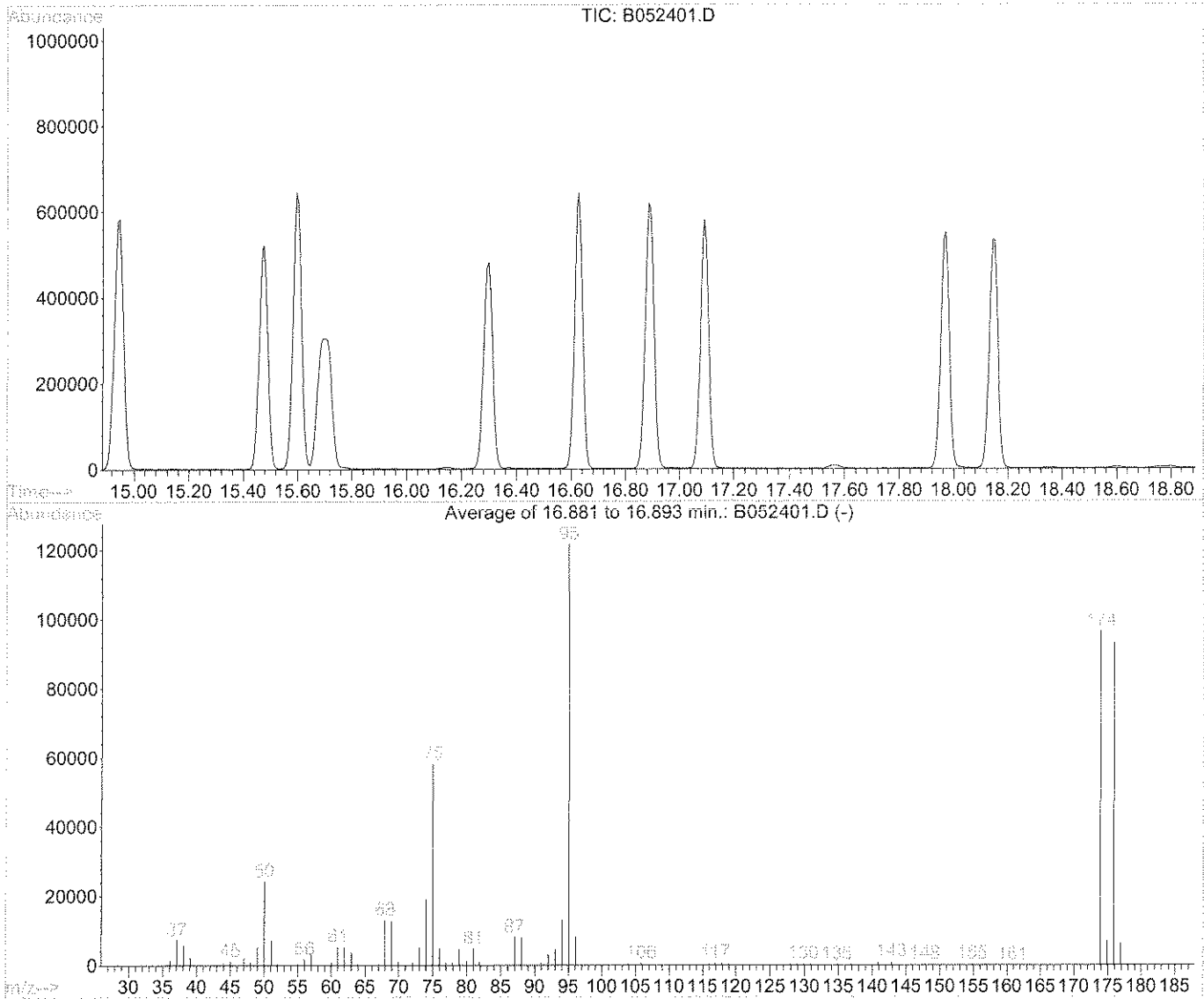
Calibration Table Report
Method: TO052410.M
Title: QUANT FILE FOR TO-14/TO-15
Last Calibration: Tue Jun 01 13:53:16 2010

Calibration Files

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
	B052406.D	B052407.D	B052408.D	B052409.D	B052410.D	B052411.D	B052412.D	B052413.D	B052414.D		
BROMOCHLOROMETHANE (1)	ISTD										
PROPENE	X	X	0.678	0.548	0.443	0.401	0.378	0.381	0.363	0.456	25.518
DICHLORODIFLUOROMETHANE	1.920	1.624	1.584	1.549	1.376	1.332	1.268	1.209	1.002	1.430	18.939
CHLOROMETHANE	0.789	0.635	0.568	0.545	0.486	0.448	0.482	0.473	0.449	0.542	20.515
FRON 114	2.184	1.881	1.854	1.788	1.610	1.524	1.551	1.497	1.282	1.686	15.879
VINYL CHLORIDE	0.772	0.610	0.592	0.593	0.543	0.493	0.544	0.540	0.496	0.576	14.623
1,3-BUTADIENE	0.474	0.408	0.376	0.367	0.342	0.310	0.345	0.339	0.308	0.363	14.385
BROMOMETHANE	1.035	0.783	0.718	0.675	0.628	0.561	0.604	0.596	0.550	0.683	22.232
CHLOROETHANE	0.315	0.287	0.284	0.288	0.273	0.239	0.278	0.282	0.255	0.278	7.737
ACROLEIN	X	0.280	0.250	0.219	0.167	0.151	0.171	0.178	0.164	0.197	23.698
ACETONE	X	X	X	1.461	0.736	0.672	0.731	0.693	0.678	0.828	37.545
TRICHLOROFLUOROMETHANE	1.659	1.360	1.341	1.337	1.207	1.126	1.126	1.054	1.030	1.249	15.889
ETHANOL	X	X	X	0.303	0.163	0.154	0.167	0.159	0.146	0.182	32.817
1,1-DICHLOROETHENE	1.237	1.040	1.015	0.998	0.919	0.856	0.830	0.844	0.811	0.950	14.506
METHYLENE CHLORIDE	X	1.284	1.053	0.903	0.759	0.699	0.673	0.673	0.639	0.836	27.486
FRON 113	1.335	1.156	1.111	1.058	0.968	0.925	0.923	0.964	0.959	1.044	13.122
CARBON DISULFIDE	2.262	1.963	1.915	1.845	1.689	1.607	1.591	1.626	1.593	1.788	12.808
TRANS-1,2-DICHLOROETHENE	1.072	0.915	0.912	0.918	0.856	0.802	0.784	0.793	0.759	0.868	11.319
1,1-DICHLOROETHANE	1.379	1.189	1.156	1.120	1.043	0.971	0.948	0.955	0.934	1.077	13.765
MTBE	2.009	1.696	1.543	1.554	1.379	1.354	1.312	1.333	1.319	1.500	15.527
IPA	X	1.036	0.927	0.876	0.762	0.720	0.799	0.639	0.689	0.806	16.470
2-BUTANONE (MEK)	X	2.251	1.956	1.705	1.325	1.323	1.275	1.284	1.243	1.545	24.728
CIS-1,2-DICHLOROETHENE	1.083	0.867	0.881	0.855	0.786	0.755	0.739	0.741	0.709	0.824	14.930
VINYL ACETATE	X	2.868	2.575	2.924	1.760	1.740	1.673	1.686	1.635	1.995	23.567
HEXANE	X	0.343	0.864	0.788	0.698	0.642	0.620	0.593	0.504	0.706	20.946
ETHYL ACETATE	0.187	0.189	0.200	0.200	0.192	0.190	0.187	0.186	0.169	0.189	4.870
CHLOROFORM	1.536	1.291	1.272	1.220	1.108	1.067	1.042	1.065	1.069	1.186	13.708
TETRAHYDROFURAN	0.289	0.250	0.267	0.269	0.248	0.247	0.242	0.247	0.246	0.256	5.998
1,2-DICHLOROETHANE	0.977	0.851	0.843	0.821	0.751	0.721	0.695	0.700	0.661	0.780	12.939
1,4-DIFLUOROBENZENE (1)	ISTD										
1,1,1-TRICHLOROETHANE	0.673	0.579	0.566	0.539	0.498	0.482	0.468	0.479	0.482	0.529	12.697
BENZENE	1.241	1.004	0.943	0.892	0.803	0.774	0.757	0.766	0.755	0.882	18.398
CARBON TETRACHLORIDE	0.635	0.553	0.559	0.542	0.506	0.493	0.490	0.495	0.507	0.531	8.902
CYCLOHEXANE	0.497	0.403	0.407	0.380	0.335	0.321	0.313	0.320	0.330	0.367	16.559
1,2-DICHLOROPROPANE	0.470	0.380	0.384	0.362	0.330	0.326	0.316	0.318	0.310	0.355	14.483
BROMODICHLOROMETHANE	0.808	0.724	0.712	0.696	0.641	0.646	0.631	0.648	0.634	0.682	8.643
TRICHLOROETHENE	0.443	0.397	0.383	0.379	0.341	0.342	0.335	0.348	0.337	0.367	9.992
1,4-DIOXANE	0.241	0.205	0.208	0.194	0.182	0.187	0.179	0.176	0.171	0.194	11.342
METHYL METHACRYLATE	0.378	0.343	0.314	0.321	0.307	0.314	0.308	0.312	0.310	0.323	7.171
HEPTANE	0.385	0.314	0.295	0.287	0.259	0.253	0.247	0.240	0.224	0.278	17.720
MIBK	1.214	0.963	0.936	0.912	0.848	0.873	0.846	0.839	0.755	0.909	14.226
CIS-1,3-DICHLOROPROPENE	0.627	0.545	0.520	0.528	0.489	0.490	0.481	0.492	0.491	0.518	8.922
TRANS-1,3-DICHLOROPROPENE	0.541	0.481	0.487	0.493	0.476	0.482	0.476	0.488	0.479	0.489	4.151
CHLOROBENZENE-D5 (1)	ISTD										
1,1,2-TRICHLOROETHANE	0.431	0.395	0.395	0.382	0.348	0.341	0.337	0.344	0.343	0.368	9.046
TOLUENE	1.358	1.052	1.018	0.961	0.873	0.854	0.837	0.846	0.821	0.958	17.942
2-HEXANONE (MEK)	1.417	1.063	0.998	1.007	0.869	0.899	0.868	0.954	0.755	0.970	19.811
DIBROMOCHLOROMETHANE	0.876	0.764	0.750	0.735	0.692	0.702	0.701	0.724	0.716	0.740	7.594
1,2-DIBROMOETHANE	0.795	0.678	0.687	0.666	0.610	0.615	0.600	0.616	0.604	0.652	9.727
TETRACHLOROETHENE	0.539	0.472	0.469	0.444	0.413	0.419	0.413	0.438	0.442	0.450	8.869
CHLOROBENZENE	0.951	0.813	0.783	0.756	0.703	0.692	0.681	0.698	0.681	0.751	11.838
ETHYLBENZENE	1.693	1.380	1.274	1.245	1.150	1.137	1.115	1.131	1.063	1.243	15.675
M/P-XYLENE	1.317	1.091	1.050	1.024	0.958	0.951	0.940	0.951	0.840	1.014	13.322
BROMOFORM	0.735	0.612	0.623	0.613	0.614	0.637	0.641	0.676	0.653	0.645	6.172
STYRENE	0.778	0.685	0.662	0.656	0.633	0.649	0.642	0.666	0.641	0.688	6.588
O-XYLENE	1.310	1.029	0.998	0.953	0.882	0.891	0.866	0.886	0.816	0.959	15.399
1,1,2,2-TETRACHLOROETHANE	1.159	0.966	0.966	0.945	0.874	0.898	0.873	0.893	0.777	0.928	11.278
4-BROMOFLUOROBENZENE (1)	0.528	0.527	0.527	0.523	0.540	0.549	0.544	0.545	0.545	0.536	1.904
4-ETHYLTOLUENE	1.440	1.212	1.178	1.171	1.100	1.160	1.111	1.152	1.061	1.176	9.263
1,3,5-TRIMETHYLBENZENE	1.266	0.969	0.957	0.941	0.876	0.901	0.892	0.914	0.853	0.952	12.991
1,2,4-TRIMETHYLBENZENE	1.063	0.975	0.931	0.927	0.873	0.903	0.896	0.920	0.859	0.927	6.610
1,3-DICHLOROBENZENE	0.846	0.690	0.705	0.689	0.644	0.678	0.681	0.721	0.660	0.702	8.385
BENZYL CHLORIDE	1.038	0.919	0.908	0.947	0.890	0.961	0.958	0.965	0.843	0.937	5.886
1,4-DICHLOROBENZENE	0.860	0.724	0.715	0.690	0.656	0.678	0.674	0.713	0.683	0.710	8.584
1,2-DICHLOROBENZENE	0.784	0.689	0.637	0.634	0.586	0.614	0.614	0.638	0.637	0.648	8.925
1,2,4-TRICHLOROBENZENE	0.568	0.452	0.433	0.436	0.378	0.412	0.424	0.469	0.460	0.448	11.734
NAPHTHALENE	2.112	1.447	1.299	1.210	0.959	1.031	1.034	1.085	1.039	1.246	20.899
HEXACHLOROBTADIENE	0.477	0.403	0.376	0.356	0.331	0.357	0.387	0.437	0.361	0.387	11.808

Tue Jun 01 14:02:18 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052401.D Vial: 4
 Acq On : 24 May 2010 12:26 pm Operator: TPH
 Sample : BFB Inst : SYSB
 Misc : CTWS-2519 Multiplr: 1.00
 MS Integration Params: 11095INT.P
 Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15



AutoFind: Scans 2165, 2166, 2167; Background Corrected with Scan 2155

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.0	24309	PASS
75	95	30	66	47.8	58136	PASS
95	95	100	100	100.0	121675	PASS
96	95	5	9	6.6	8026	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	79.1	96203	PASS
175	174	4	9	7.3	7025	PASS
176	174	93	101	96.6	92925	PASS
177	176	5	9	6.7	6196	PASS

Data File : D:\HPCHEM\1\DATA\B052410\B052406.D

Vial: 1

Acq On : 24 May 2010 3:46 pm

Operator: TPH

Sample : 0.05PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:33 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	247542 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	468694 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	427734 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	225651 ✓	7.87	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	98.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	1738 ✗	0.123	PPBv #	55
3) DICHLORODIFLUOROMETHANE	4.15	85	2971 ✓	0.067	PPBv	97
4) CHLOROMETHANE	4.30	50	1220 ✓	0.073	PPBv	96
5) FREON 114	4.39	85	3379 ✓	0.065	PPBv	91
6) VINYL CHLORIDE	4.51	62	1194 ✓	0.067	PPBv	85
7) 1,3-BUTADIENE	4.62	54	734 ✓	0.065	PPBv	93
8) BROMOMETHANE	4.86	94	1601 ✓	0.076	PPBv #	79
9) CHLOROETHANE	5.01	64	487 ✓	0.057	PPBv	82
10) ACROLEIN	5.42	56	654 ✗	0.107	PPBv #	9
11) ACETONE	5.55	43	5422 ✗	0.212	PPBv	72
12) TRICHLOROFLUOROMETHANE	5.69	101	2567 ✓	0.066	PPBv	95
13) ETHANOL	5.12	45	2473 ✗	0.410	PPBv	76
14) 1,1-DICHLOROETHENE	6.24	61	1914 ✓	0.065	PPBv	93
15) METHYLENE CHLORIDE	6.33	49	2795 ✗	0.108	PPBv	93
16) FREON 113	6.59	101	2065 ✓	0.064	PPBv	95
17) CARBON DISULFIDE	6.62	76	3499 ✓	0.063	PPBv	95
18) TRANS-1,2-DICHLOROETHENE	7.18	61	1658 ✓	0.062	PPBv #	66
19) 1,1-DICHLOROETHANE	7.36	63	2133 ✓	0.064	PPBv	95
20) MTBE	7.45	73	3108 ✓	0.067	PPBv	95
21) IPA	5.75	45	2005 ✗	0.075	PPBv #	76
22) 2-BUTANONE (MEK)	7.74	43	4729 ✗	0.099	PPBv	97
23) CIS-1,2-DICHLOROETHENE	8.14	61	1676 ✓	0.066	PPBv	94
24) VINYL ACETATE	7.50	43	5869 ✗	0.095	PPBv	92
25) HEXANE	8.35	41	2050 ✗	0.094	PPBv #	55
26) ETHYL ACETATE	8.35	61	289 ✓	0.049	PPBv #	78
27) CHLOROFORM	8.41	83	2376 ✓	0.065	PPBv	93
28) TETRAHYDROFURAN	8.83	71	447 ✓	0.056	PPBv	98
29) 1,2-DICHLOROETHANE	9.12	62	1512 ✓	0.063	PPBv #	93
31) 1,1,1-TRICHLOROETHANE	9.38	97	1970 ✓	0.064	PPBv	94
32) BENZENE	9.82	78	3634 ✓	0.070	PPBv	96
33) CARBON TETRACHLORIDE	9.98	117	1861 ✓	0.060	PPBv	100
34) CYCLOHEXANE	10.11	84	1457 ✓	0.068	PPBv #	74
35) 1,2-DICHLOROPROPANE	10.65	63	1378 ✓	0.066	PPBv #	89
36) BROMODICHLOROMETHANE	10.84	83	2367 ✓	0.059	PPBv #	94
37) TRICHLOROETHENE	10.90	95	1299 ✓	0.060	PPBv	91
38) 1,4-DIOXANE	10.92	88	707 ✓	0.062	PPBv #	56
39) METHYLMETHACRYLATE	11.10	69	1106 ✓	0.058	PPBv	93
40) HEPTANE	11.23	57	1128 ✓	0.069	PPBv	89
41) MIBK	11.86	43	3555 ✓	0.067	PPBv	94
42) CIS-1,3DICHLOROPROPENE	11.80	75	1836 ✓	0.060	PPBv	90
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	1586 ✓	0.055	PPBv	87
45) 1,1,2-TRICHLOROETHANE	12.56	97	1153 ✓	0.059	PPBv	83

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

B052406.D TO052410.M

Tue Jun 01 13:55:10 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052406.D

Vial: 1

Acq On : 24 May 2010 3:46 pm

Operator: TPH

Sample : 0.05PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:33 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.88	91	3630 ✓	0.071	PPBv	100
47) 2-HEXANONE (MBK)	13.19	43	3789 ✓	0.073	PPBv	79
48) DIBROMOCHLOROMETHANE	13.34	129	2341 ✓	0.059	PPBv	97
49) 1,2-DIBROMOETHANE	13.63	107	2126 ✓	0.061	PPBv	97
50) TETRACHLOROETHENE	14.19	166	1441 ✓	0.060	PPBv	93
51) CHLOROBENZENE	15.00	112	2542 ✓	0.063	PPBv	90
52) ETHYLBENZENE	15.48	91	4526 ✓	0.068	PPBv	97
53) M/P-XYLENE	15.70	91	7040 ✓	0.119	PPBv	95
54) BROMOFORM	15.76	173	1964 ✓	0.057	PPBv	92
55) STYRENE	16.16	104	2079 ✓	0.058	PPBv	89
56) O-XYLENE	16.30	91	3501 ✓	0.068	PPBv	96
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	3099 ✓	0.062	PPBv	95
59) 4-ETHYLTOLUENE	18.03	105	3849 ✓	0.061	PPBv	97
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	3385 ✓	0.067	PPBv	100
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	2843 ✓	0.057	PPBv	94
62) 1,3-DICHLOROBENZENE	18.97	146	2262 ✓	0.060	PPBv	95
63) BENZYL CHLORIDE	18.95	91	2774 ✓	0.055	PPBv	98
64) 1,4-DICHLOROBENZENE	19.08	146	2298 ✓	0.061	PPBv	96
65) 1,2-DICHLOROBENZENE	19.63	146	2095 ✓	0.060	PPBv	95
66) 1,2,4-TRICHLOROBENZENE	22.43	180	1518 ✓	0.063	PPBv	97
67) NAPHTHALENE	22.57	128	5647 ✓	0.102	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	1276 ✓	0.062	PPBv #	47

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

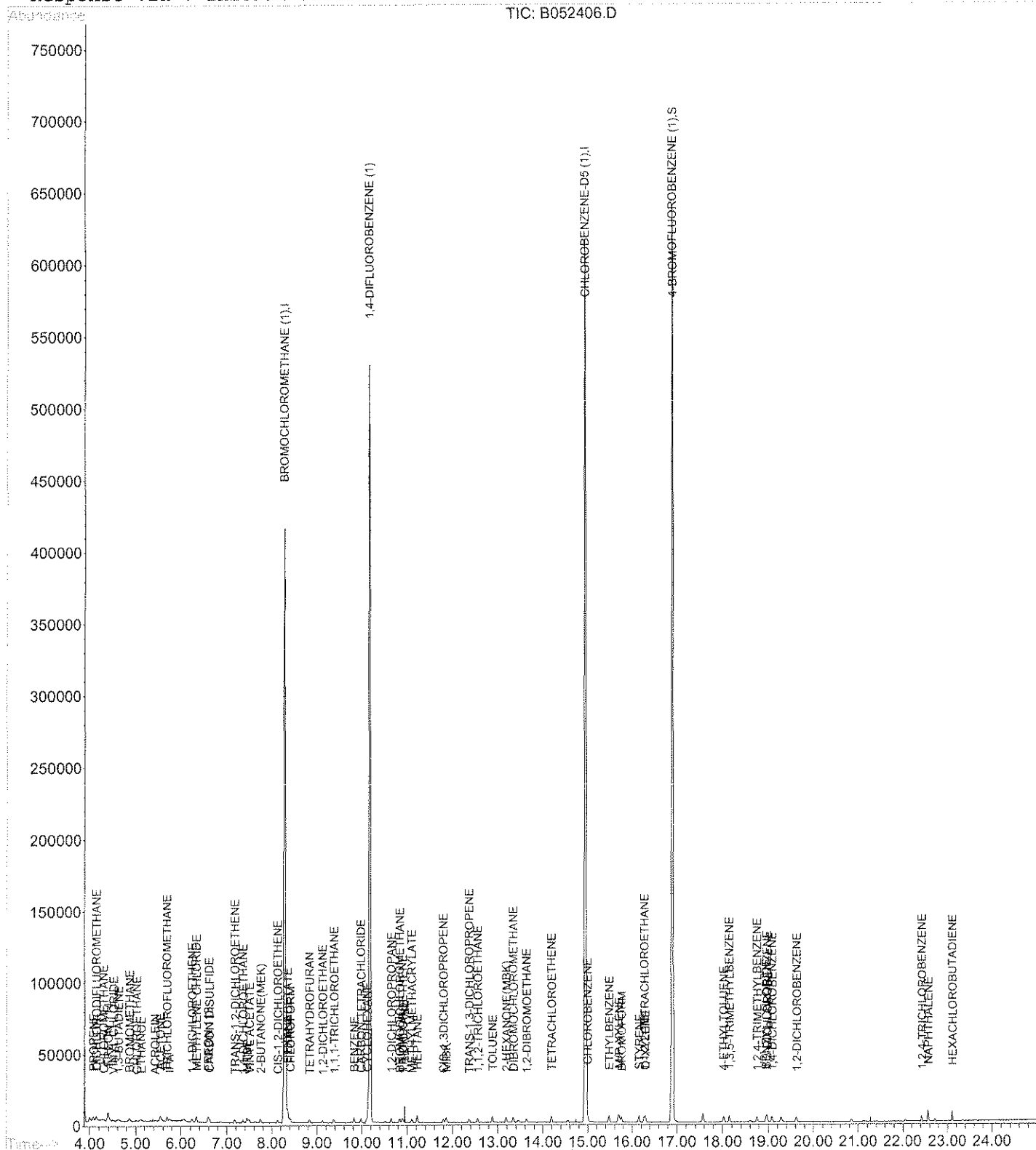
B052406.D TO052410.M Tue Jun 01 13:55:10 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052406.D
Acq On : 24 May 2010 3:46 pm
Sample : 0.05PPBv STD
Misc : CTWS-2513
MS Integration Params: 11095INT.P
Quant Time: May 25 17:33 2010

Vial: 1
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052407.D

Vial: 1

Acq On : 24 May 2010 4:26 pm

Operator: TPH

Sample : 0.1PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	242396 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	451737 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	412390 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	217142 ✓	7.85	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	98.13%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	2426 ✗	0.175	PPBv	85
3) DICHLORODIFLUOROMETHANE	4.15	85	4921 ✓	0.114	PPBv	97
4) CHLOROMETHANE	4.29	50	1923 ✓	0.117	PPBv	98
5) FREON 114	4.39	85	5699 ✓	0.112	PPBv	91
6) VINYL CHLORIDE	4.49	62	1848 ✓	0.106	PPBv	99
7) 1,3-BUTADIENE	4.62	54	1235 ✓	0.112	PPBv	99
8) BROMOMETHANE	4.86	94	2371 ✓	0.115	PPBv	86
9) CHLOROETHANE	5.01	64	870 ✓	0.103	PPBv	70
10) ACROLEIN	5.42	56	848 ✓	0.142	PPBv #	31
11) ACETONE	5.55	43	6517 ✗	0.260	PPBv	72
12) TRICHLOROFLUOROMETHANE	5.69	101	4122 ✓	0.109	PPBv	99
13) ETHANOL	5.11	45	1989 ✗	0.337	PPBv	100
14) 1,1-DICHLOROETHENE	6.24	61	3151 ✓	0.109	PPBv	94
15) METHYLENE CHLORIDE	6.33	49	3891 ✓	0.154	PPBv	99
16) FREON 113	6.59	101	3503 ✓	0.111	PPBv	89
17) CARBON DISULFIDE	6.62	76	5947 ✓	0.110	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.18	61	2772 ✓	0.105	PPBv #	66
19) 1,1-DICHLOROETHANE	7.36	63	3603 ✓	0.110	PPBv	99
20) MTBE	7.45	73	5139 ✓	0.113	PPBv	94
21) IPA	5.75	45	3139 ✓	0.120	PPBv #	94
22) 2-BUTANONE (MEK)	7.73	43	6819 ✓	0.146	PPBv	97
23) CIS-1,2-DICHLOROETHENE	8.13	61	2626 ✓	0.105	PPBv	98
24) VINYL ACETATE	7.49	43	8689 ✓	0.144	PPBv	93
25) HEXANE	8.35	41	2857 ✓	0.134	PPBv #	62
26) ETHYL ACETATE	8.35	61	572 ✓	0.100	PPBv #	84
27) CHLOROFORM	8.41	83	3911 ✓	0.109	PPBv	98
28) TETRAHYDROFURAN	8.83	71	759 ✓	0.098	PPBv	97
29) 1,2-DICHLOROETHANE	9.12	62	2580 ✓	0.109	PPBv #	93
31) 1,1,1-TRICHLOROETHANE	9.38	97	3267 ✓	0.109	PPBv	97
32) BENZENE	9.83	78	5668 ✓	0.114	PPBv	97
33) CARBON TETRACHLORIDE	9.97	117	3120 ✓	0.104	PPBv	99
34) CYCLOHEXANE	10.11	84	2277 ✓	0.110	PPBv	90
35) 1,2-DICHLOROPROPANE	10.66	63	2145 ✓	0.107	PPBv #	96
36) BROMODICHLOROMETHANE	10.84	83	4089 ✓	0.106	PPBv	95
37) TRICHLOROETHENE	10.90	95	2242 ✓	0.108	PPBv	93
38) 1,4-DIOXANE	10.91	88	1156 ✓	0.106	PPBv #	76
39) METHYLMETHACRYLATE	11.10	69	1934 ✓	0.106	PPBv #	83
40) HEPTANE	11.22	57	1772 ✓	0.113	PPBv	89
41) MIBK	11.85	43	5438 ✓	0.106	PPBv	99
42) CIS-1,3DICHLOROPROPENE	11.80	75	3076 ✓	0.105	PPBv	90
43) TRANS-1,3-DICHLOROPROPENE	12.36	75	2718 ✓	0.098	PPBv	95
45) 1,1,2-TRICHLOROETHANE	12.55	97	2036 ✓	0.107	PPBv	90

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

B052407.D TO052410.M Tue Jun 01 13:55:14 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052407.D

Vial: 1

Acq On : 24 May 2010 4:26 pm

Operator: TPH

Sample : 0.1PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	5425 ✓	0.110	PPBv	97
47) 2-HEXANONE (MBK)	13.19	43	5478 ✓	0.110	PPBv	85
48) DIBROMOCHLOROMETHANE	13.34	129	3940 ✓	0.103	PPBv	96
49) 1,2-DIBROMOETHANE	13.63	107	3496 ✓	0.104	PPBv	99
50) TETRACHLOROETHENE	14.19	166	2432 ✓	0.105	PPBv	95
51) CHLOROBENZENE	15.00	112	4193 ✓	0.108	PPBv	95
52) ETHYLBENZENE	15.48	91	7116 ✓	0.111	PPBv	100
53) M/P-XYLENE	15.69	91	11249 ✓	0.197	PPBv	93
54) BROMOFORM	15.75	173	3157 ✓	0.095	PPBv	100
55) STYRENE	16.15	104	3531 ✓	0.103	PPBv	92
56) O-XYLENE	16.30	91	5306 ✓	0.107	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	4978 ✓	0.104	PPBv	99
59) 4-ETHYLTOLUENE	18.03	105	6246 ✓	0.103	PPBv	100
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	4993 ✓	0.102	PPBv	96
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	5024 ✓	0.105	PPBv	99
62) 1,3-DICHLOROBENZENE	18.97	146	3555 ✓	0.098	PPBv	98
63) BENZYL CHLORIDE	18.95	91	4738 ✓	0.098	PPBv	97
64) 1,4-DICHLOROBENZENE	19.08	146	3734 ✓	0.102	PPBv	98
65) 1,2-DICHLOROBENZENE	19.62	146	3553 ✓	0.106	PPBv	90
66) 1,2,4-TRICHLOROBENZENE	22.42	180	2329 ✓	0.101	PPBv	97
67) NAPHTHALENE	22.57	128	7461 ✓	0.139	PPBv	100
68) HEXACHLOROBUTADIENE	23.10	225	2077 ✓	0.104	PPBv	66

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

B052407.D TO052410.M

Tue Jun 01 13:55:15 2010

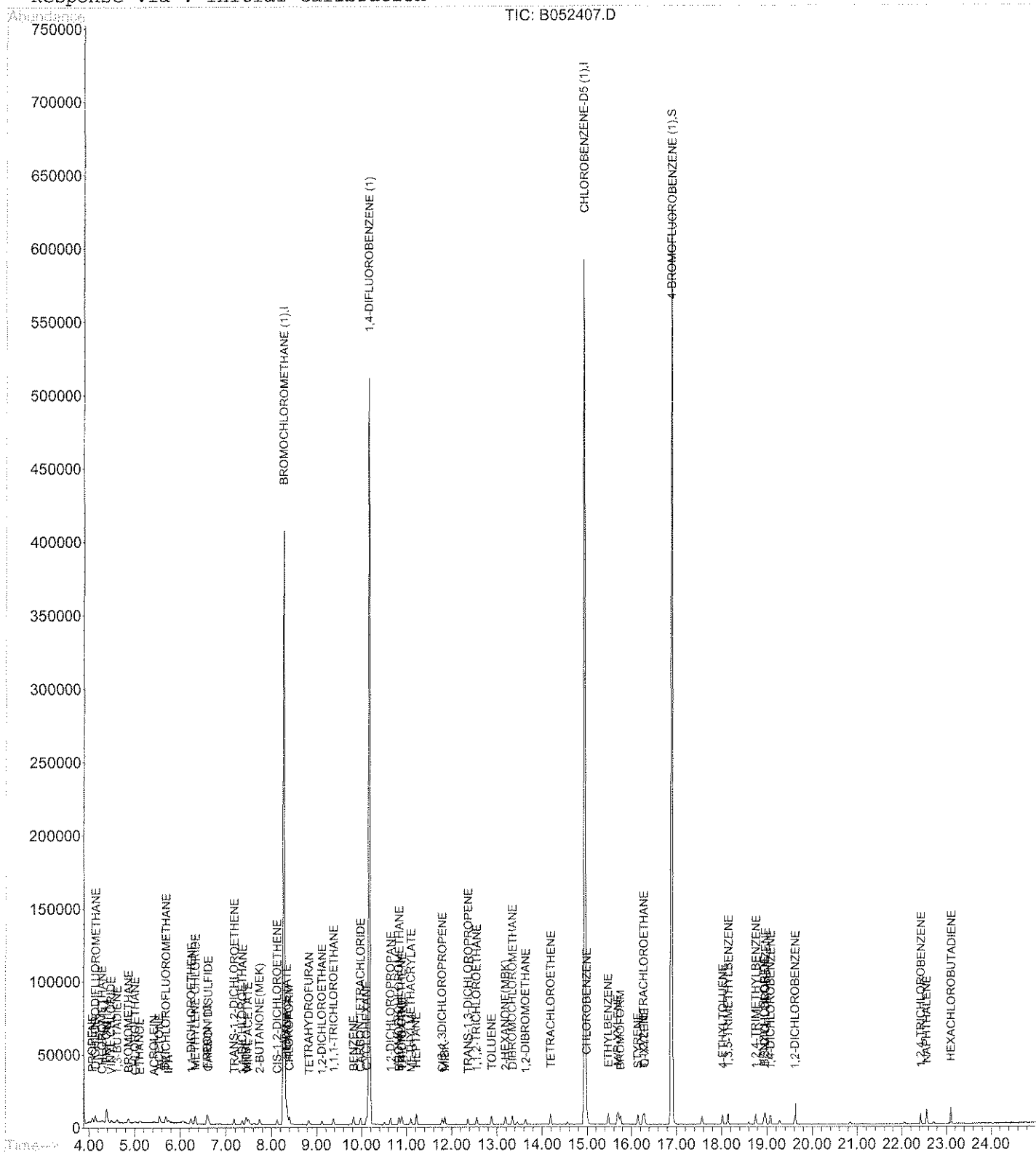
Page 2

Data File : D:\HPCHEM\1\DATA\B052410\B052407.D
 Acq On : 24 May 2010 4:26 pm
 Sample : 0.1PPBv STD
 Misc : CTWS-2513
 MS Integration Params: 11095INT.P
 Quant Time: May 25 17:34 2010

Vial: 1
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue Jun 01 13:53:16 2010
 Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052408.D
 Acq On : 24 May 2010 5:06 pm
 Sample : 0.2PPBv STD
 Misc : CTWS-2513
 MS Integration Params: 11095INT.P
 Quant Time: May 25 17:34 2010

Vial: 1
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue May 25 17:32:49 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	242047 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	448593 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	408499 ✓	8.00	PPBv	0.00

System Monitoring Compounds
 58) 4-BROMOFLUOROBENZENE (1) 16.89 174 215262 ✓ 7.86 PPBv 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 98.25%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	4100 ✓	0.297	PPBv	91
3) DICHLORODIFLUOROMETHANE	4.15	85	9584 ✓	0.222	PPBv	100
4) CHLOROMETHANE	4.29	50	3439 ✓	0.210	PPBv	94
5) FREON 114	4.39	85	11217 ✓	0.220	PPBv	90
6) VINYL CHLORIDE	4.50	62	3584 ✓	0.206	PPBv	94
7) 1,3-BUTADIENE	4.62	54	2275 ✓	0.207	PPBv	96
8) BROMOMETHANE	4.86	94	4343 ✓	0.210	PPBv	91
9) CHLOROETHANE	5.01	64	1721 ✓	0.205	PPBv	90
10) ACROLEIN	5.42	56	1513 ✓	0.253	PPBv #	60
11) ACETONE	5.54	43	10753 ✗	0.429	PPBv	70
12) TRICHLOROFLUOROMETHANE	5.69	101	8116 ✓	0.215	PPBv	99
13) ETHANOL	5.11	45	3479 ✗	0.589	PPBv	82
14) 1,1-DICHLOROETHENE	6.24	61	6142 ✓	0.214	PPBv	92
15) METHYLENE CHLORIDE	6.33	49	6374 ✓	0.252	PPBv	98
16) FREON 113	6.59	101	6725 ✓	0.213	PPBv	92
17) CARBON DISULFIDE	6.62	76	11587 ✓	0.214	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.18	61	5516 ✓	0.210	PPBv #	68
19) 1,1-DICHLOROETHANE	7.36	63	6993 ✓	0.215	PPBv	99
20) MTBE	7.44	73	9338 ✓	0.206	PPBv	95
21) IPA	5.74	45	5608 ✓	0.216	PPBv	99
22) 2-BUTANONE (MEK)	7.73	43	11838 ✓	0.253	PPBv	97
23) CIS-1,2-DICHLOROETHENE	8.13	61	5329 ✓	0.214	PPBv	97
24) VINYL ACETATE	7.49	43	15580 ✓	0.258	PPBv	97
25) HEXANE	8.35	41	5227 ✓	0.245	PPBv #	60
26) ETHYL ACETATE	8.35	61	1211 ✓	0.212	PPBv	91
27) CHLOROFORM	8.40	83	7696 ✓	0.215	PPBv	96
28) TETRAHYDROFURAN	8.82	71	1613 ✓	0.208	PPBv	98
29) 1,2-DICHLOROETHANE	9.11	62	5100 ✓	0.216	PPBv	97
31) 1,1,1-TRICHLOROETHANE	9.38	97	6347 ✓	0.214	PPBv	97
32) BENZENE	9.83	78	10577 ✓	0.214	PPBv	96
33) CARBON TETRACHLORIDE	9.97	117	6264 ✓	0.210	PPBv	97
34) CYCLOHEXANE	10.11	84	4563 ✓	0.221	PPBv #	84
35) 1,2-DICHLOROPROPANE	10.65	63	4310 ✓	0.216	PPBv #	98
36) BROMODICHLOROMETHANE	10.83	83	7980 ✓	0.209	PPBv	96
37) TRICHLOROETHENE	10.89	95	4296 ✓	0.209	PPBv	90
38) 1,4-DIOXANE	10.91	88	2336 ✓	0.215	PPBv	86
39) METHYLMETHACRYLATE	11.10	69	3524 ✓	0.195	PPBv #	87
40) HEPTANE	11.22	57	3310 ✓	0.212	PPBv	89
41) MIBK	11.85	43	10494 ✓	0.206	PPBv	93
42) CIS-1,3DICHLOROPROPENE	11.79	75	5837 ✓	0.201	PPBv	100
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	5462 ✓	0.199	PPBv	97
45) 1,1,2-TRICHLOROETHANE	12.56	97	4032 ✓	0.214	PPBv	92

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

Data File : D:\HPCHEM\1\DATA\B052410\B052408.D

Vial: 1

Acq On : 24 May 2010 5:06 pm

Operator: TPH

Sample : 0.2PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	10394	0.213	PPBv	99
47) 2-HEXANONE (MBK)	13.19	43	10191	0.206	PPBv	87
48) DIBROMOCHLOROMETHANE	13.34	129	7663	0.203	PPBv	97
49) 1,2-DIBROMOETHANE	13.63	107	7014	0.211	PPBv	98
50) TETRACHLOROETHENE	14.19	166	4788	0.208	PPBv	96
51) CHLOROBENZENE	15.00	112	7992	0.208	PPBv	99
52) ETHYLBENZENE	15.48	91	13015	0.205	PPBv	100
53) M/P-XYLENE	15.70	91	21451	0.380	PPBv	93
54) BROMOFORM	15.76	173	6367	0.193	PPBv	99
55) STYRENE	16.16	104	6758	0.198	PPBv	93
56) O-XYLENE	16.29	91	10194	0.208	PPBv	97
57) 1,1,2,2-TETRACHLOROETHANE	16.26	83	9869	0.208	PPBv	98
59) 4-ETHYLTOLUENE	18.02	105	12035	0.200	PPBv	97
60) 1,3,5-TRIMETHYLBENZENE	18.14	105	9771	0.201	PPBv	97
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	9511	0.201	PPBv	97
62) 1,3-DICHLOROBENZENE	18.97	146	7204	0.201	PPBv	99
63) BENZYL CHLORIDE	18.95	91	9272	0.194	PPBv	96
64) 1,4-DICHLOROBENZENE	19.08	146	7304	0.202	PPBv	98
65) 1,2-DICHLOROBENZENE	19.62	146	6505	0.197	PPBv	98
66) 1,2,4-TRICHLOROBENZENE	22.43	180	4420	0.193	PPBv	99
67) NAPHTHALENE	22.56	128	13261	0.250	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	3843	0.194	PPBv #	47

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

B052408.D TO052410.M

Tue Jun 01 13:55:21 2010

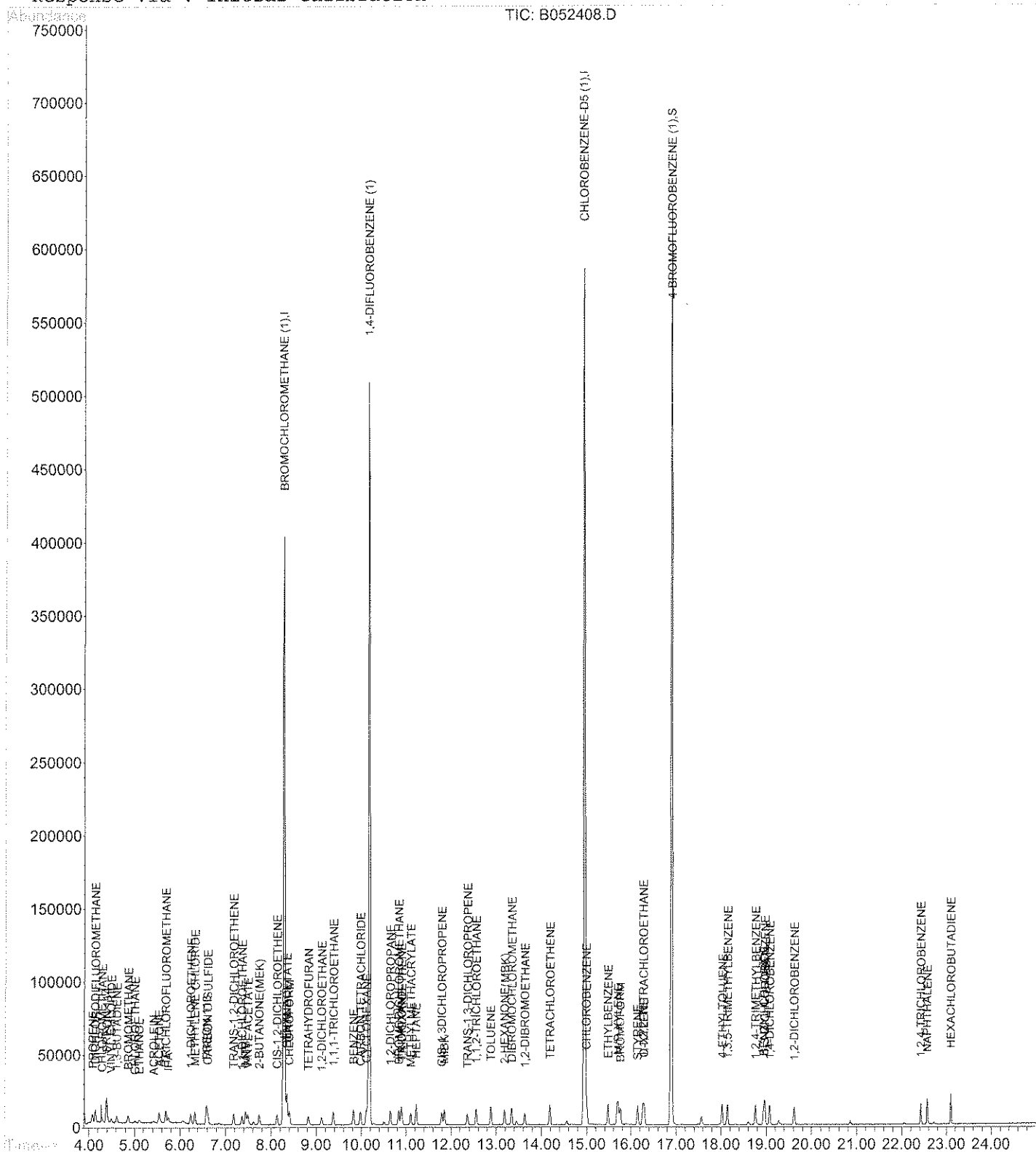
Page 2

Data File : D:\HPCHEM\1\DATA\B052410\B052408.D
Acq On : 24 May 2010 5:06 pm
Sample : 0.2PPBv STD
Misc : CTWS-2513
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 1
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052409.D

Vial: 1

Acq On : 24 May 2010 5:46 pm

Operator: TPH

Sample : 0.5PPBv STD

Inst : SYSB

Misc : CTWS-2513

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:36 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	240066 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	446020 ✓	8.00	PPBv	0.00
44) CHLOROENZENE-D5 (1)	14.95	117	402462 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	210458 ✓	7.80	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	97.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	8215 ✓	0.599	PPBv	87
3) DICHLORODIFLUOROMETHANE	4.15	85	23243 ✓	0.542	PPBv	99
4) CHLOROMETHANE	4.29	50	8180 ✓	0.503	PPBv	97
5) FREON 114	4.39	85	26834 ✓	0.530	PPBv	91
6) VINYL CHLORIDE	4.50	62	8892 ✓	0.515	PPBv	96
7) 1,3-BUTADIENE	4.62	54	5509 ✓	0.505	PPBv	97
8) BROMOMETHANE	4.86	94	10124 ✓	0.494	PPBv	94
9) CHLOROETHANE	5.02	64	4325 ✓	0.519	PPBv	90
10) ACROLEIN	5.42	56	3285 ✓	0.554	PPBv	85
11) ACETONE	5.54	43	21919 ✓	0.882	PPBv	70
12) TRICHLOROFLUOROMETHANE	5.69	101	20062 ✓	0.535	PPBv	98
13) ETHANOL	5.11	45	4548m ✓	0.777	PPBv	
14) 1,1-DICHLOROETHENE	6.24	61	14979 ✓	0.525	PPBv	90
15) METHYLENE CHLORIDE	6.34	49	13551 ✓	0.540	PPBv	98
16) FREON 113	6.59	101	15872 ✓	0.506	PPBv	92
17) CARBON DISULFIDE	6.62	76	27688 ✓	0.516	PPBv	98
18) TRANS-1,2-DICHLOROETHENE	7.18	61	13776 ✓	0.529	PPBv #	67
19) 1,1-DICHLOROETHANE	7.36	63	16800 ✓	0.520	PPBv	98
20) MTBE	7.44	73	23310 ✓	0.518	PPBv	94
21) IPA	5.74	45	13149 ✓	0.509	PPBv	98
22) 2-BUTANONE (MEK)	7.73	43	25587 ✓	0.551	PPBv	94
23) CIS-1,2-DICHLOROETHENE	8.13	61	12830 ✓	0.519	PPBv	98
24) VINYL ACETATE	7.49	43	30370 ✓	0.507	PPBv	96
25) HEXANE	8.35	41	11820 ✓	0.558	PPBv #	61
26) ETHYL ACETATE	8.34	61	3003 ✓	0.530	PPBv	94
27) CHLOROFORM	8.41	83	18311 ✓	0.515	PPBv	98
28) TETRAHYDROFURAN	8.82	71	4036 ✓	0.525	PPBv	96
29) 1,2-DICHLOROETHANE	9.12	62	12314 ✓	0.526	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	15036 ✓	0.509	PPBv	97
32) BENZENE	9.83	78	24871 ✓	0.506	PPBv	97
33) CARBON TETRACHLORIDE	9.98	117	15117 ✓	0.511	PPBv	98
34) CYCLOHEXANE	10.11	84	10581 ✓	0.517	PPBv #	85
35) 1,2-DICHLOROPROPANE	10.65	63	10081 ✓	0.509	PPBv #	100
36) BROMODICHLOROMETHANE	10.83	83	19401 ✓	0.510	PPBv	97
37) TRICHLOROETHENE	10.89	95	10555 ✓	0.516	PPBv	93
38) 1,4-DIOXANE	10.90	88	5395 ✓	0.500	PPBv	94
39) METHYLMETHACRYLATE	11.10	69	8944 ✓	0.497	PPBv #	85
40) HEPTANE	11.22	57	7989 ✓	0.515	PPBv	89
41) MIBK	11.85	43	25418 ✓	0.501	PPBv	92
42) CIS-1,3DICHLOROPROPENE	11.80	75	14719 ✓	0.510	PPBv	99
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	13753 ✓	0.504	PPBv	97
45) 1,1,2-TRICHLOROETHANE	12.56	97	9597 ✓	0.518	PPBv	89

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

B052409.D TO052410.M Tue Jun 01 13:55:26 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052409.D
 Acq On : 24 May 2010 5:46 pm
 Sample : 0.5PPBv STD
 Misc : CTWS-2513

Vial: 1
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:36 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	24175 ✓	0.502	PPBv	99
47) 2-HEXANONE (MBK)	13.18	43	25339 ✓	0.519	PPBv	87
48) DIBROMOCHLOROMETHANE	13.35	129	18497 ✓	0.497	PPBv	99
49) 1,2-DIBROMOETHANE	13.63	107	16748 ✓	0.510	PPBv	98
50) TETRACHLOROETHENE	14.19	166	11163 ✓	0.493	PPBv	96
51) CHLOROBENZENE	15.00	112	19009 ✓	0.503	PPBv	98
52) ETHYLBENZENE	15.47	91	31304 ✓	0.501	PPBv	100
53) M/P-XYLENE	15.71	91	51506 ✓	0.925	PPBv	93
54) BROMOFORM	15.76	173	15418 ✓	0.475	PPBv	96
55) STYRENE	16.16	104	16504 ✓	0.491	PPBv	93
56) O-XYLENE	16.30	91	23967 ✓	0.497	PPBv	98
57) 1,1,2,2-TETRACHLOROETHANE	16.26	83	23775 ✓	0.509	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	29444 ✓	0.498	PPBv	98
60) 1,3,5-TRIMETHYLBENZENE	18.14	105	23671 ✓	0.494	PPBv	98
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	23316 ✓	0.500	PPBv	97
62) 1,3-DICHLOROBENZENE	18.97	146	17330 ✓	0.491	PPBv	100
63) BENZYL CHLORIDE	18.94	91	23816 ✓	0.505	PPBv	99
64) 1,4-DICHLOROBENZENE	19.08	146	17368 ✓	0.487	PPBv	99
65) 1,2-DICHLOROBENZENE	19.62	146	15939 ✓	0.489	PPBv	97
66) 1,2,4-TRICHLOROBENZENE	22.42	180	10965 ✓	0.487	PPBv	98
67) NAPHTHALENE	22.57	128	30438 ✓	0.583	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	8954 ✓	0.460	PPBv	88

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

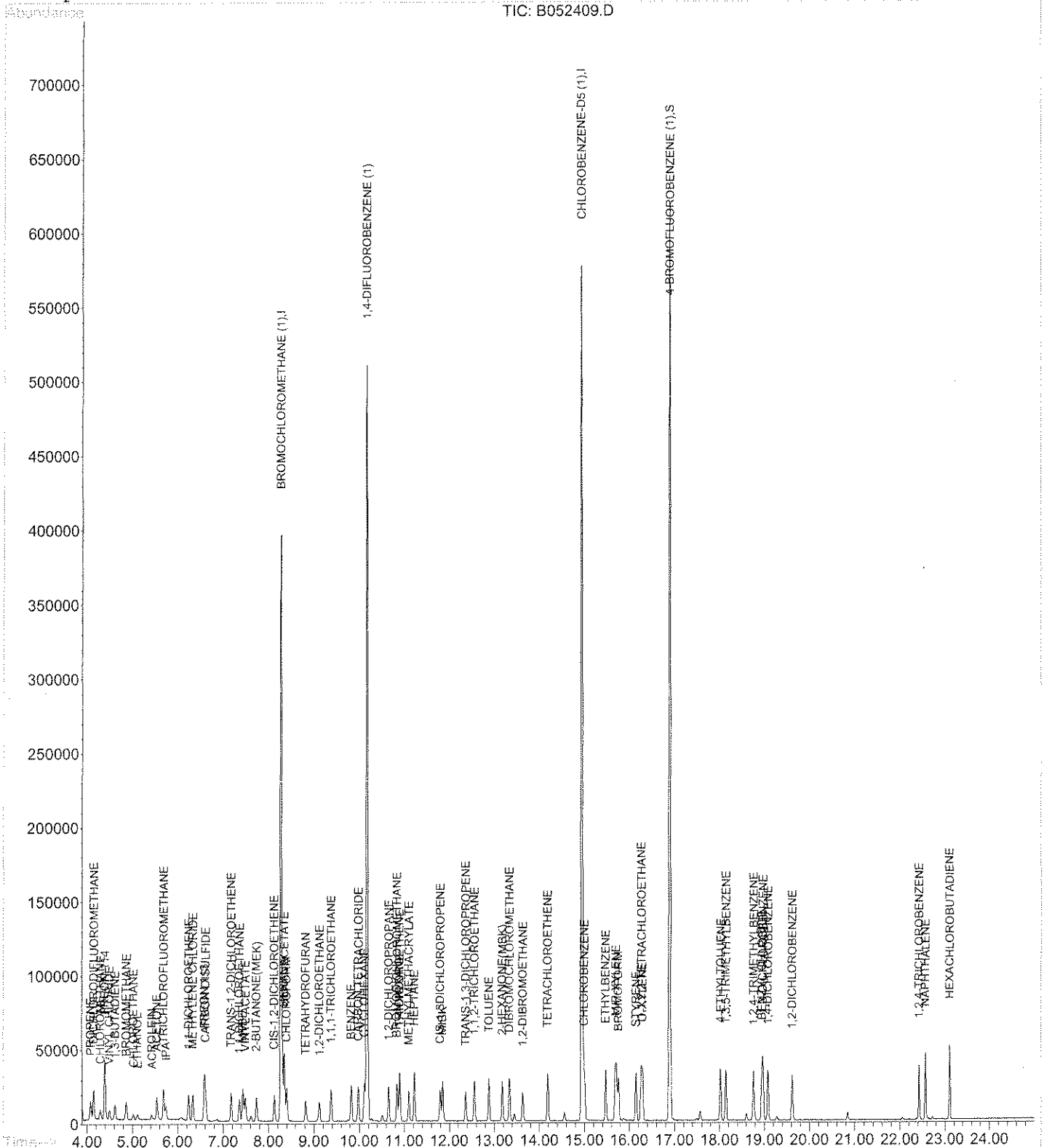
B052409.D TO052410.M Tue Jun 01 13:55:26 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052409.D
Acq On : 24 May 2010 5:46 pm
Sample : 0.5PPBv STD
Misc : CTWS-2513
MS Integration Params: 11095INT.P
Quant Time: May 25 17:36 2010

Vial: 1
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration

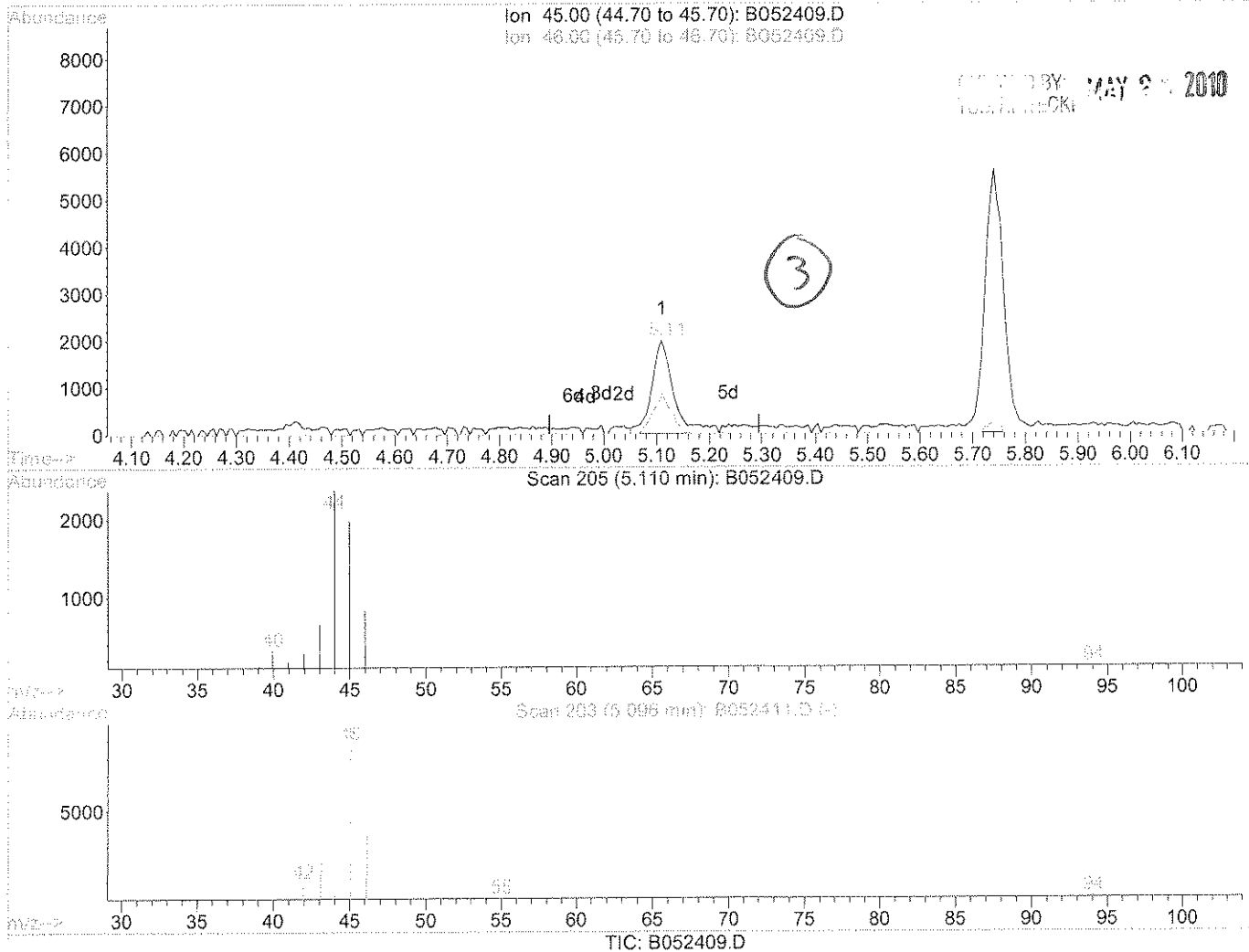


Data File : D:\HPCHEM\1\DATA\B052410\B052409.D
 Acq On : 24 May 2010 5:46 pm
 Sample : 0.5PPBv STD
 Misc : CTWS-2513
 MS Integration Params: 11095INT.P
 Quant Time: May 25 17:34 2010

Vial: 1
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue May 25 17:35:22 2010
 Response via : Multiple Level Calibration



(13) ETHANOL

5.11min 0.98PPBv

response 5761

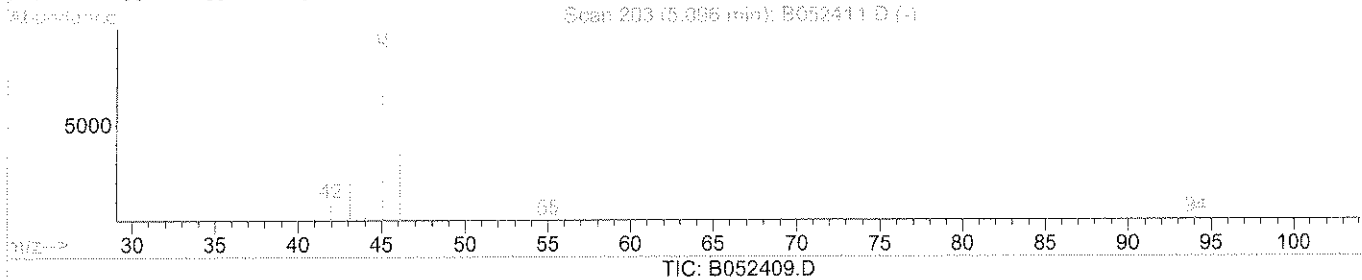
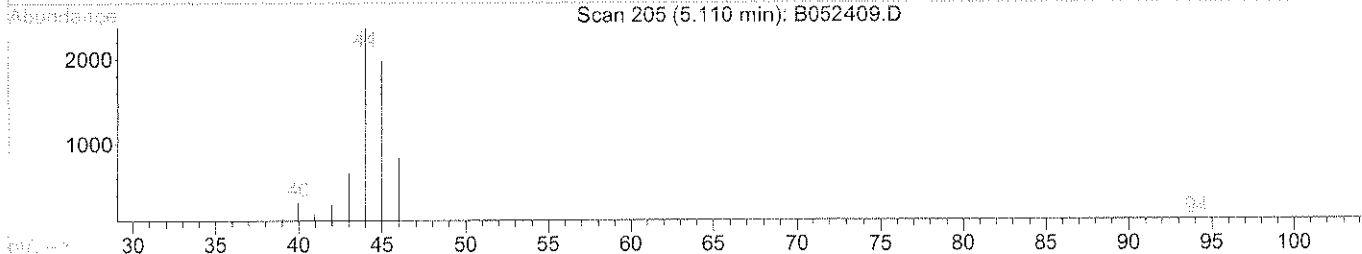
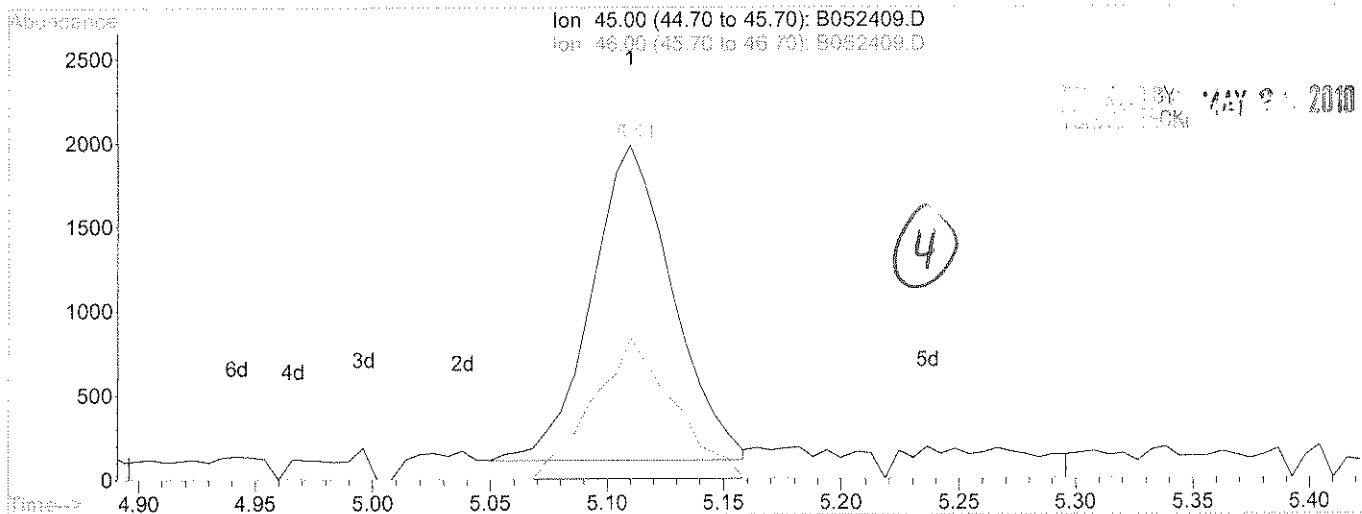
Ion	Exp%	Act%
45.00	100	100
46.00	44.60	34.66
0.00	0.00	0.00
0.00	0.00	0.00

Data File : D:\HPCHEM\1\DATA\B052410\B052409.D
 Acq On : 24 May 2010 5:46 pm
 Sample : 0.5PPBv STD
 Misc : CTWS-2513
 MS Integration Params: 11095INT.P
 Quant Time: May 25 17:36 2010

Vial: 1
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: temp.res

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue May 25 17:35:22 2010
 Response via : Multiple Level Calibration



(13) ETHANOL

5.11min 0.78PPBv m

response 4548

Ion	Exp%	Act%
45.00	100	100
46.00	44.60	43.91
0.00	0.00	0.00
0.00	0.00	0.00

Data File : D:\HPCHEM\1\DATA\B052410\B052410.D

Vial: 2

Acq On : 24 May 2010 6:27 pm

Operator: TPH

Sample : 2.0PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	240877 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	443861 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	404055 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	218244 ✓	8.06	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	100.75%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.07	41	26684 ✓	1.940	PPBv	100
3) DICHLORODIFLUOROMETHANE	4.15	85	82876 ✓	1.925	PPBv	98
4) CHLOROMETHANE	4.29	50	29282 ✓	1.794	PPBv	100
5) FREON 114	4.39	85	96945 ✓	1.910	PPBv	92
6) VINYL CHLORIDE	4.50	62	32673 ✓	1.884	PPBv	95
7) 1,3-BUTADIENE	4.62	54	20617 ✓	1.885	PPBv	95
8) BROMOMETHANE	4.86	94	37839 ✓	1.839	PPBv	96
9) CHLOROETHANE	5.01	64	16411 ✓	1.961	PPBv	93
10) ACROLEIN	5.42	56	10044 ✓	1.689	PPBv	97
11) ACETONE	5.53	43	44319 ✓	1.777	PPBv	86
12) TRICHLOROFLUOROMETHANE	5.68	101	72657 ✓	1.932	PPBv	99
13) ETHANOL	5.10	45	9826 ✓	1.673	PPBv	99
14) 1,1-DICHLOROETHENE	6.24	61	55312 ✓	1.934	PPBv	91
15) METHYLENE CHLORIDE	6.33	49	45729 ✓	1.818	PPBv	98
16) FREON 113	6.59	101	58288 ✓	1.854	PPBv	93
17) CARBON DISULFIDE	6.62	76	101719 ✓	1.889	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.18	61	51563 ✓	1.973	PPBv #	68
19) 1,1-DICHLOROETHANE	7.36	63	62808 ✓	1.936	PPBv	99
20) MTBE	7.43	73	83037 ✓	1.839	PPBv	93
21) IPA	5.73	45	45865 ✓	1.771	PPBv	97
22) 2-BUTANONE (MEK)	7.73	43	79812 ✓	1.714	PPBv	94
23) CIS-1,2-DICHLOROETHENE	8.13	61	47318 ✓	1.908	PPBv	98
24) VINYL ACETATE	7.49	43	105995 ✓	1.765	PPBv	97
25) HEXANE	8.35	41	42028 ✓	1.976	PPBv #	62
26) ETHYL ACETATE	8.35	61	11554 ✓	2.032	PPBv	99
27) CHLOROFORM	8.40	83	66752 ✓	1.870	PPBv	99
28) TETRAHYDROFURAN	8.81	71	14961 ✓	1.939	PPBv	97
29) 1,2-DICHLOROETHANE	9.11	62	45240 ✓	1.926	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	55311 ✓	1.883	PPBv	98
32) BENZENE	9.82	78	89066 ✓	1.821	PPBv	97
33) CARBON TETRACHLORIDE	9.98	117	56132 ✓	1.905	PPBv	99
34) CYCLOHEXANE	10.11	84	37202 ✓	1.825	PPBv #	85
35) 1,2-DICHLOROPROPANE	10.65	63	36631 ✓	1.859	PPBv #	99
36) BROMODICHLOROMETHANE	10.84	83	71091 ✓	1.878	PPBv	96
37) TRICHLOROETHENE	10.90	95	37870 ✓	1.859	PPBv	90
38) 1,4-DIOXANE	10.90	88	20170 ✓	1.878	PPBv	95
39) METHYLMETHACRYLATE	11.10	69	34046 ✓	1.900	PPBv #	82
40) HEPTANE	11.22	57	28795 ✓	1.866	PPBv	88
41) MIBK	11.85	43	94097 ✓	1.865	PPBv	92
42) CIS-1,3DICHLOROPROPENE	11.80	75	54220 ✓	1.886	PPBv	100
43) TRANS-1,3-DICHLOROPROPENE	12.36	75	52836 ✓	1.946	PPBv	98
45) 1,1,2-TRICHLOROETHANE	12.56	97	35133 ✓	1.888	PPBv	90

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

B052410.D TO052410.M

Tue Jun 01 13:55:32 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052410.D

Vial: 2

Acq On : 24 May 2010 6:27 pm

Operator: TPH

Sample : 2.0PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	88172 ✓	1.823	PPBv	100
47) 2-HEXANONE (MBK)	13.18	43	87824 ✓	1.792	PPBv	88
48) DIBROMOCHLOROMETHANE	13.34	129	69875 ✓	1.869	PPBv	98
49) 1,2-DIBROMOETHANE	13.63	107	61609 ✓	1.870	PPBv	99
50) TETRACHLOROETHENE	14.19	166	41676 ✓	1.835	PPBv	97
51) CHLOROBENZENE	15.00	112	71048 ✓	1.873	PPBv	94
52) ETHYLBENZENE	15.48	91	116151 ✓	1.850	PPBv	100
53) M/P-XYLENE	15.70	91	193634 ✓	3.464	PPBv	94
54) BROMOFORM	15.76	173	62011 ✓	1.903	PPBv	99
55) STYRENE	16.15	104	63932 ✓	1.895	PPBv	94
56) O-XYLENE	16.30	91	89123 ✓	1.840	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.26	83	88297 ✓	1.884	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	111121 ✓	1.871	PPBv	95
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	88536 ✓	1.842	PPBv	97
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	88175 ✓	1.882	PPBv	94
62) 1,3-DICHLOROBENZENE	18.97	146	65004 ✓	1.835	PPBv	100
63) BENZYL CHLORIDE	18.95	91	89933 ✓	1.901	PPBv	97
64) 1,4-DICHLOROBENZENE	19.08	146	65625 ✓	1.832	PPBv	99
65) 1,2-DICHLOROBENZENE	19.63	146	59218 ✓	1.809	PPBv	97
66) 1,2,4-TRICHLOROBENZENE	22.43	180	38213 ✓	1.690	PPBv	98
67) NAPHTHALENE	22.56	128	96856 ✓	1.847	PPBv	100
68) HEXACHLOROBUTADIENE	23.10	225	33398 ✓	1.708	PPBv	98

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

B052410.D TO052410.M

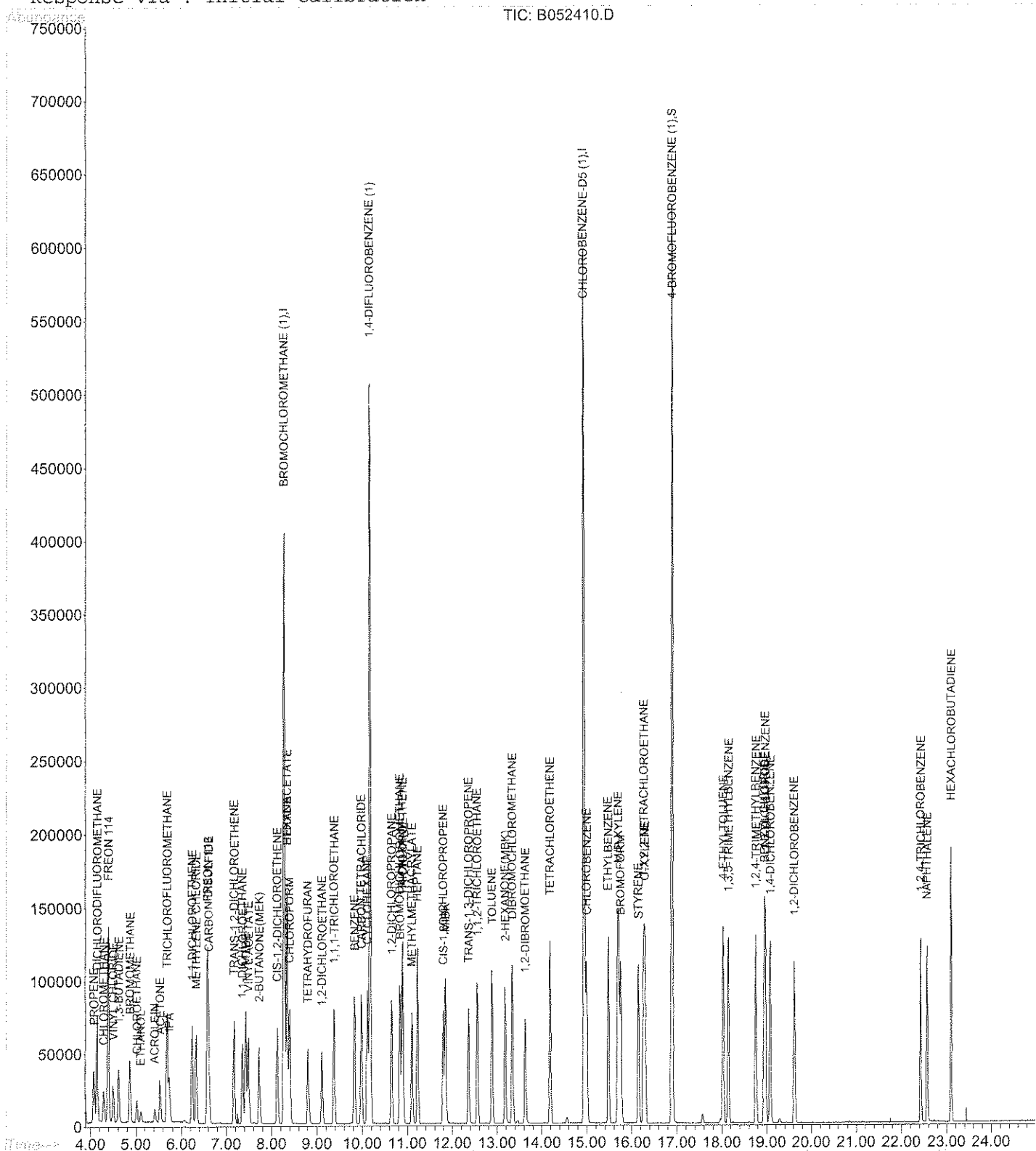
Tue Jun 01 13:55:33 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052410.D
Acq On : 24 May 2010 6:27 pm
Sample : 2.0PPBV STD
Misc : CTWS-2514
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052411.D

Vial: 2

Acq On : 24 May 2010 7:10 pm

Operator: TPH

Sample : 5.0PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	241397 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	438709 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	404360 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	222099 ✓	8.19	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	102.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.07	41	60466 ✓	4.385	PPBv	99
3) DICHLORODIFLUOROMETHANE	4.14	85	200960 ✓	4.658	PPBv	99
4) CHLOROMETHANE	4.29	50	67656 ✓	4.137	PPBv	100
5) FREON 114	4.38	85	229997 ✓	4.520	PPBv	91
6) VINYL CHLORIDE	4.49	62	74423 ✓	4.283	PPBv	97
7) 1,3-BUTADIENE	4.62	54	46758 ✓	4.267	PPBv	95
8) BROMOMETHANE	4.86	94	84593 ✓	4.103	PPBv	98
9) CHLOROETHANE	5.01	64	35995 ✓	4.293	PPBv	94
10) ACROLEIN	5.41	56	22760 ✓	3.819	PPBv	98
11) ACETONE	5.53	43	101337 ✓	4.054	PPBv	86
12) TRICHLOROFLUOROMETHANE	5.68	101	169845 ✓	4.507	PPBv	99
13) ETHANOL	5.10	45	23267 ✓	3.953	PPBv	93
14) 1,1-DICHLOROETHENE	6.24	61	129137 ✓	4.505	PPBv	91
15) METHYLENE CHLORIDE	6.33	49	105506 ✓	4.185	PPBv	98
16) FREON 113	6.59	101	139504 ✓	4.427	PPBv	94
17) CARBON DISULFIDE	6.62	76	242516 ✓	4.495	PPBv	98
18) TRANS-1,2-DICHLOROETHENE	7.17	61	121013 ✓	4.621	PPBv #	68
19) 1,1-DICHLOROETHANE	7.36	63	146531 ✓	4.508	PPBv	99
20) MTBE	7.43	73	204256 ✓	4.513	PPBv	93
21) IPA	5.73	45	108618 ✓	4.185	PPBv	97
22) 2-BUTANONE (MEK)	7.72	43	199655 ✓	4.279	PPBv	93
23) CIS-1,2-DICHLOROETHENE	8.13	61	113847 ✓	4.580	PPBv	98
24) VINYL ACETATE	7.49	43	262496 ✓	4.361	PPBv	97
25) HEXANE	8.35	41	96789 ✓	4.542	PPBv #	62
26) ETHYL ACETATE	8.34	61	28598 ✓	5.019	PPBv	99
27) CHLOROFORM	8.41	83	160907 ✓	4.498	PPBv	99
28) TETRAHYDROFURAN	8.80	71	37247 ✓	4.817	PPBv	97
29) 1,2-DICHLOROETHANE	9.11	62	108844 ✓	4.623	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	132116 ✓	4.550	PPBv	99
32) BENZENE	9.83	78	212242 ✓	4.390	PPBv	97
33) CARBON TETRACHLORIDE	9.98	117	135096 ✓	4.639	PPBv	99
34) CYCLOHEXANE	10.11	84	88119 ✓	4.373	PPBv #	83
35) 1,2-DICHLOROPROPANE	10.65	63	89258 ✓	4.582	PPBv #	100
36) BROMODICHLOROMETHANE	10.84	83	177058 ✓	4.733	PPBv	96
37) TRICHLOROETHENE	10.90	95	93715 ✓	4.654	PPBv	89
38) 1,4-DIOXANE	10.89	88	51266 ✓	4.829	PPBv	93
39) METHYLMETHACRYLATE	11.10	69	86031 ✓	4.858	PPBv #	80
40) HEPTANE	11.22	57	69429 ✓	4.551	PPBv	87
41) MIBK	11.85	43	239349 ✓	4.799	PPBv	92
42) CIS-1,3DICHLOROPROPENE	11.80	75	134304 ✓	4.728	PPBv	100
43) TRANS-1,3-DICHLOROPROPENE	12.36	75	132030 ✓	4.920	PPBv	98
45) 1,1,2-TRICHLOROETHANE	12.56	97	86295 ✓	4.633	PPBv	89

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

B052411.D TO052410.M Tue Jun 01 13:55:37 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052411.D
 Acq On : 24 May 2010 7:10 pm
 Sample : 5.0PPBv STD
 Misc : CTWS-2514

Vial: 2
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue May 25 17:32:49 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	215876 ✓	4.459	PPBv	99
47) 2-HEXANONE (MBK)	13.18	43	227297 ✓	4.636	PPBv	88
48) DIBROMOCHLOROMETHANE	13.34	129	177300 ✓	4.740	PPBv	98
49) 1,2-DIBROMOETHANE	13.63	107	155315 ✓	4.712	PPBv	100
50) TETRACHLOROETHENE	14.20	166	105874 ✓	4.657	PPBv	97
51) CHLOROBENZENE	15.00	112	174899 ✓	4.608	PPBv	97
52) ETHYLBENZENE	15.48	91	287412 ✓	4.574	PPBv	100
53) M/P-XYLENE	15.70	91	480842 ✓	8.595	PPBv	94
54) BROMOFORM	15.76	173	160965 ✓	4.937	PPBv	99
55) STYRENE	16.15	104	164043 ✓	4.859	PPBv	94
56) O-XYLENE	16.30	91	225196 ✓	4.646	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	226944 ✓	4.839	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	293268 ✓	4.933	PPBv	97
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	227614 ✓	4.731	PPBv	95
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	228104 ✓	4.866	PPBv	94
62) 1,3-DICHLOROBENZENE	18.97	146	171412 ✓	4.834	PPBv	99
63) BENZYL CHLORIDE	18.95	91	242968 ✓	5.132	PPBv	96
64) 1,4-DICHLOROBENZENE	19.08	146	171324 ✓	4.779	PPBv	99
65) 1,2-DICHLOROBENZENE	19.63	146	155261 ✓	4.739	PPBv	96
66) 1,2,4-TRICHLOROBENZENE	22.43	180	104072 ✓	4.598	PPBv	98
67) NAPHTHALENE	22.57	128	260486 ✓	4.964	PPBv	100
68) HEXACHLOROBUTADIENE	23.10	225	90182 ✓	4.609	PPBv	95

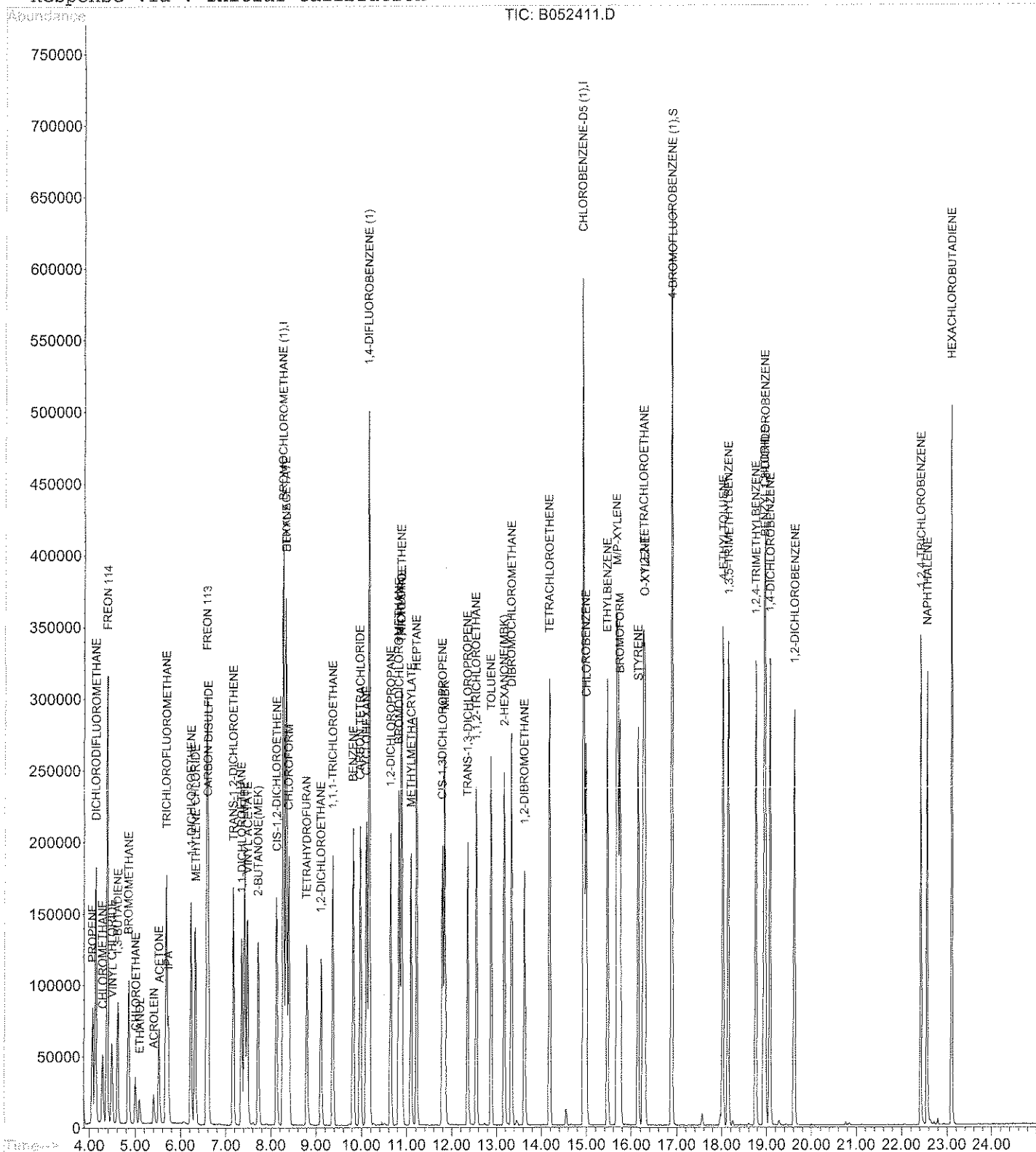
 (#) = qualifier out of range (m) = manual integration
 B052411.D TO052410.M Tue Jun 01 13:55:38 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052411.D
Acq On : 24 May 2010 7:10 pm
Sample : 5.0PPBV STD
Misc : CTWS-2514
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052412.D
 Acq On : 24 May 2010 7:52 pm
 Sample : 10PPBv STD
 Misc : CTWS-2514

Vial: 2
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

MS Integration Params: 11095INT.P
 Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue May 25 17:32:49 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.28	49	241438 ✓	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	441068 ✓	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	409826 ✓	8.00	PPBv	0.00

System Monitoring Compounds
 58) 4-BROMOFLUOROBENZENE (1) 16.89 174 223027 ✓ 8.12 PPBv 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.07	41	114063 ✓	8.271	PPBv	98
3) DICHLORODIFLUOROMETHANE	4.14	85	382813 ✓	8.872	PPBv	99
4) CHLOROMETHANE	4.29	50	145612 ✓	8.902	PPBv	99
5) FREON 114	4.39	85	467986 ✓	9.196	PPBv	90
6) VINYL CHLORIDE	4.49	62	164261 ✓	9.451	PPBv	97
7) 1,3-BUTADIENE	4.61	54	104018 ✓	9.490	PPBv	94
8) BROMOMETHANE	4.86	94	182158 ✓	8.834	PPBv	96
9) CHLOROETHANE	5.01	64	84018 ✓	10.018	PPBv	95
10) ACROLEIN	5.41	56	51697 ✓	8.673	PPBv	97
11) ACETONE	5.52	43	220490 ✓	8.820	PPBv	83
12) TRICHLOROFLUOROMETHANE	5.68	101	339904 ✓	9.017	PPBv	99
13) ETHANOL	5.10	45	50419 ✓	8.565	PPBv	94
14) 1,1-DICHLOROETHENE	6.24	61	250509 ✓	8.737	PPBv	91
15) METHYLENE CHLORIDE	6.33	49	202973 ✓	8.049	PPBv	98
16) FREON 113	6.59	101	278436 ✓	8.835	PPBv	96
17) CARBON DISULFIDE	6.62	76	480110 ✓	8.897	PPBv	98
18) TRANS-1,2-DICHLOROETHENE	7.18	61	236592 ✓	9.032	PPBv #	68
19) 1,1-DICHLOROETHANE	7.36	63	285965 ✓	8.796	PPBv	98
20) MTBE	7.43	73	396027 ✓	8.748	PPBv	93
21) IPA	5.73	45	241274 ✓	9.295	PPBv	95
22) 2-BUTANONE (MEK)	7.72	43	384835 ✓	8.246	PPBv	93
23) CIS-1,2-DICHLOROETHENE	8.13	61	222985 ✓	8.968	PPBv	99
24) VINYL ACETATE	7.49	43	505002 ✓	8.388	PPBv	97
25) HEXANE	8.34	41	187071 ✓	8.777	PPBv #	62
26) ETHYL ACETATE	8.34	61	56348 ✓	9.888	PPBv	99
27) CHLOROFORM	8.41	83	314405 ✓	8.787	PPBv	99
28) TETRAHYDROFURAN	8.80	71	73134 ✓	9.456	PPBv	96
29) 1,2-DICHLOROETHANE	9.11	62	209831 ✓	8.911	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	257957 ✓	8.837	PPBv	99
32) BENZENE	9.83	78	417251 ✓	8.585	PPBv	97
33) CARBON TETRACHLORIDE	9.98	117	270388 ✓	9.236	PPBv	99
34) CYCLOHEXANE	10.11	84	172565 ✓	8.518	PPBv #	82
35) 1,2-DICHLOROPROPANE	10.65	63	174495 ✓	8.910	PPBv #	99
36) BROMODICHLOROMETHANE	10.84	83	348029 ✓	9.254	PPBv	96
37) TRICHLOROETHENE	10.90	95	184552 ✓	9.117	PPBv	87
38) 1,4-DIOXANE	10.89	88	98831 ✓	9.260	PPBv	91
39) METHYLMETHACRYLATE	11.10	69	170086 ✓	9.554	PPBv #	79
40) HEPTANE	11.23	57	136043 ✓	8.870	PPBv	86
41) MIBK	11.85	43	466350 ✓	9.301	PPBv	91
42) CIS-1,3DICHLOROPROPENE	11.80	75	265082 ✓	9.281	PPBv	100
43) TRANS-1,3-DICHLOROPROPENE	12.36	75	262709 ✓	9.737	PPBv	99
45) 1,1,2-TRICHLOROETHANE	12.56	97	172546 ✓	9.141	PPBv	89

(#) = qualifier out of range (m) = manual integration
 B052412.D TO052410.M Tue Jun 01 13:55:43 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052412.D

Vial: 2

Acq On : 24 May 2010 7:52 pm

Operator: TPH

Sample : 10PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	428978 ✓	8.742	PPBv	99
47) 2-HEXANONE (MBK)	13.18	43	444410 ✓	8.943	PPBv	89
48) DIBROMOCHLOROMETHANE	13.35	129	359163 ✓	9.474	PPBv	98
49) 1,2-DIBROMOETHANE	13.64	107	307115 ✓	9.193	PPBv	99
50) TETRACHLOROETHENE	14.20	166	211622 ✓	9.185	PPBv	97
51) CHLOROBENZENE	15.01	112	348826 ✓	9.068	PPBv	98
52) ETHYLBENZENE	15.48	91	570952 ✓	8.966	PPBv	100
53) M/P-XYLENE	15.72	91	962766 ✓	16.979	PPBv	95
54) BROMOFORM	15.76	173	328603 ✓	9.944	PPBv	99
55) STYRENE	16.16	104	328931 ✓	9.612	PPBv	95
56) O-XYLENE	16.30	91	443394 ✓	9.025	PPBv	99
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	447342 ✓	9.411	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	569271 ✓	9.449	PPBv	95
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	456729 ✓	9.367	PPBv	95
61) 1,2,4-TRIMETHYLBENZENE	18.77	105	458828 ✓	9.657	PPBv	93
62) 1,3-DICHLOROBENZENE	18.98	146	349041 ✓	9.712	PPBv	99
63) BENZYL CHLORIDE	18.95	91	490970 ✓	10.232	PPBv	95
64) 1,4-DICHLOROBENZENE	19.08	146	345217 ✓	9.501	PPBv	98
65) 1,2-DICHLOROBENZENE	19.63	146	314417 ✓	9.470	PPBv	96
66) 1,2,4-TRICHLOROBENZENE	22.43	180	217015 ✓	9.461	PPBv	98
67) NAPHTHALENE	22.57	128	529665 ✓	9.960	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	198090 ✓	9.990	PPBv	94

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

B052412.D TO052410.M

Tue Jun 01 13:55:44 2010

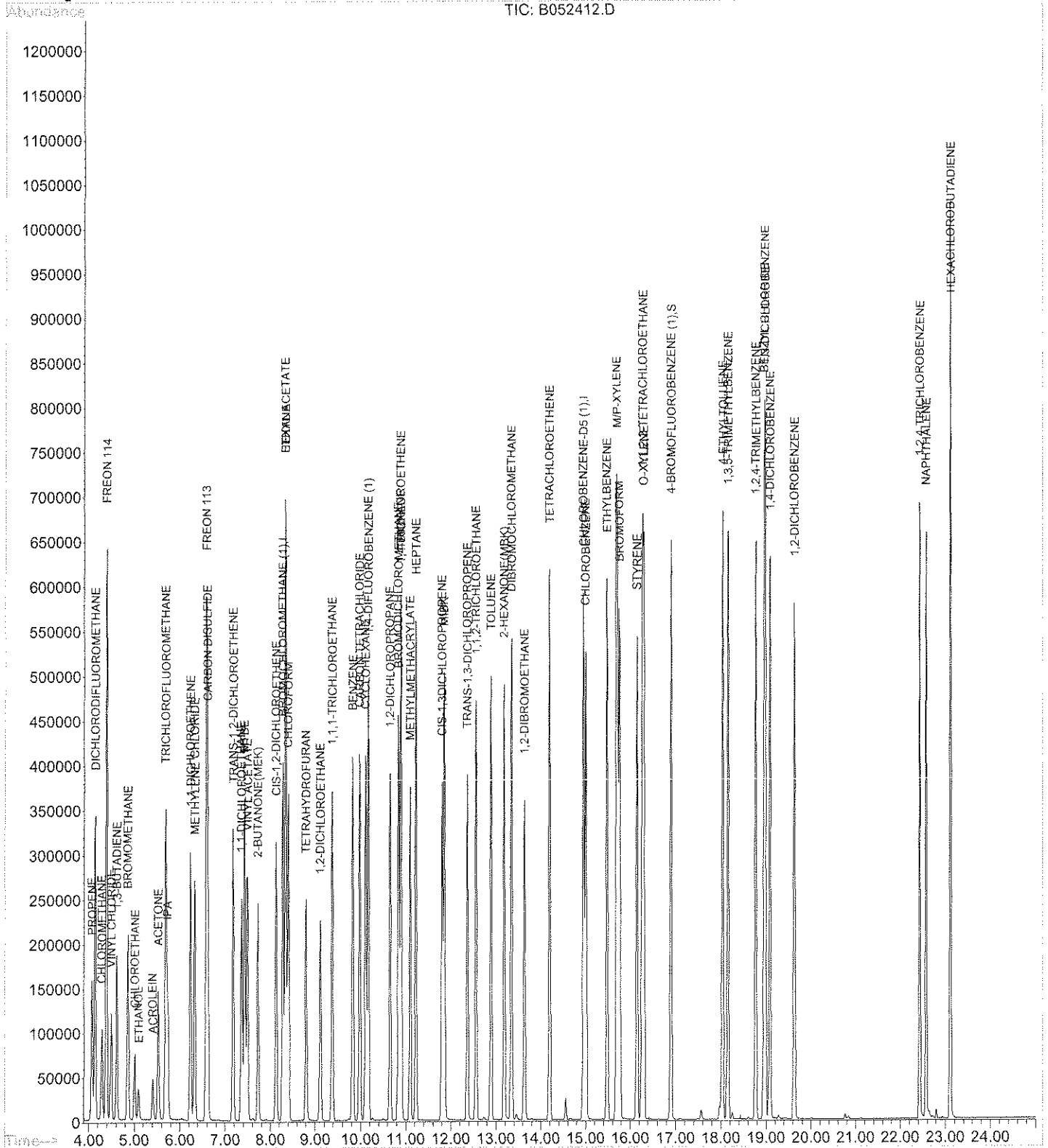
Page 2

Data File : D:\HPCHEM\1\DATA\B052410\B052412.D
Acq On : 24 May 2010 7:52 pm
Sample : 10PPBV STD
Misc : CTWS-2514
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052413.D

Vial: 2

Acq On : 24 May 2010 8:34 pm

Operator: TPH

Sample : 20PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	242463✓	8.00	PPBv	0.01
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	444235✓	8.00	PPBv	0.01
44) CHLOROBENZENE-D5 (1)	14.95	117	413929✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	225400✓	8.12	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.50%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.07	41	230774✓	16.664	PPBv	99
3) DICHLORODIFLUOROMETHANE	4.15	85	733131✓	16.919	PPBv	99
4) CHLOROMETHANE	4.30	50	286886✓	17.465	PPBv	99
5) FREON 114	4.39	85	907695✓	17.762	PPBv	91
6) VINYL CHLORIDE	4.49	62	327225✓	18.748	PPBv	96
7) 1,3-BUTADIENE	4.62	54	205301✓	18.652	PPBv	95
8) BROMOMETHANE	4.86	94	361379✓	17.451	PPBv	97
9) CHLOROETHANE	5.02	64	170752✓	20.273	PPBv	94
10) ACROLEIN	5.42	56	107894✓	18.024	PPBv	97
11) ACETONE	5.53	43	419859✓	16.724	PPBv	85
12) TRICHLOROFLUOROMETHANE	5.69	101	638986✓	16.880	PPBv	99
13) ETHANOL	5.11	45	96520✓	16.327	PPBv	94
14) 1,1-DICHLOROETHENE	6.24	61	511796✓	17.775	PPBv	92
15) METHYLENE CHLORIDE	6.34	49	408079✓	16.115	PPBv	98
16) FREON 113	6.59	101	584280✓	18.461	PPBv	97
17) CARBON DISULFIDE	6.62	76	985821✓	18.191	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.19	61	480586✓	18.270	PPBv #	68
19) 1,1-DICHLOROETHANE	7.37	63	579134✓	17.739	PPBv	98
20) MTBE	7.44	73	808297✓	17.780	PPBv	93
21) IPA	5.74	45	387558✓	14.868	PPBv	96
22) 2-BUTANONE (MEK)	7.73	43	778054✓	16.601	PPBv	92
23) CIS-1,2-DICHLOROETHENE	8.13	61	449152✓	17.988	PPBv	100
24) VINYL ACETATE	7.50	43	1022113✓	16.905	PPBv	96
25) HEXANE	8.35	41	359233✓	16.783	PPBv #	65
26) ETHYL ACETATE	8.35	61	113022✓	19.750	PPBv	96
27) CHLOROFORM	8.42	83	645509✓	17.965	PPBv	99
28) TETRAHYDROFURAN	8.81	71	149905✓	19.301	PPBv	97
29) 1,2-DICHLOROETHANE	9.13	62	424346✓	17.945	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	531812✓	18.088	PPBv	99
32) BENZENE	9.83	78	850242✓	17.369	PPBv	98
33) CARBON TETRACHLORIDE	9.98	117	549603✓	18.639	PPBv	99
34) CYCLOHEXANE	10.12	84	355724✓	17.434	PPBv #	80
35) 1,2-DICHLOROPROPANE	10.66	63	353225✓	17.908	PPBv #	99
36) BROMODICHLOROMETHANE	10.84	83	719428✓	18.993	PPBv	97
37) TRICHLOROETHENE	10.90	95	386530✓	18.958	PPBv	86
38) 1,4-DIOXANE	10.89	88	195345✓	18.172	PPBv	88
39) METHYLMETHACRYLATE	11.11	69	346734✓	19.338	PPBv #	77
40) HEPTANE	11.23	57	266038✓	17.223	PPBv	84
41) MIBK	11.85	43	931637✓	18.447	PPBv	90
42) CIS-1,3DICHLOROPROPENE	11.80	75	546463✓	18.997	PPBv	99
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	541960✓	19.944	PPBv	100
45) 1,1,2-TRICHLOROETHANE	12.57	97	356151✓	18.680	PPBv	90

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

B052413.D TO052410.M Tue Jun 01 13:55:48 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052413.D

Vial: 2

Acq On : 24 May 2010 8:34 pm

Operator: TPH

Sample : 20PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	875173 ✓	17.659	PPBv	99
47) 2-HEXANONE (MBK)	13.19	43	883501 ✓	17.602	PPBv	90
48) DIBROMOCHLOROMETHANE	13.35	129	749451 ✓	19.572	PPBv	98
49) 1,2-DIBROMOETHANE	13.64	107	637117 ✓	18.881	PPBv	100
50) TETRACHLOROETHENE	14.20	166	453460 ✓	19.486	PPBv	98
51) CHLOROBENZENE	15.01	112	722233 ✓	18.589	PPBv	99
52) ETHYLBENZENE	15.48	91	1170183 ✓	18.193	PPBv	98
53) M/P-XYLENE	15.72	91	1967495 ✓	34.354	PPBv	97
54) BROMOFORM	15.77	173	699686 ✓	20.964	PPBv	98
55) STYRENE	16.16	104	689425 ✓	19.947	PPBv	97
56) O-XYLENE	16.30	91	917120 ✓	18.483	PPBv	98
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	923987 ✓	19.245	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	1191733 ✓	19.584	PPBv	94
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	945482 ✓	19.198	PPBv	94
61) 1,2,4-TRIMETHYLBENZENE	18.77	105	952346 ✓	19.846	PPBv	92
62) 1,3-DICHLOROBENZENE	18.98	146	746362 ✓	20.561	PPBv	98
63) BENZYL CHLORIDE	18.95	91	998954 ✓	20.613	PPBv	93
64) 1,4-DICHLOROBENZENE	19.09	146	737378 ✓	20.093	PPBv	98
65) 1,2-DICHLOROBENZENE	19.63	146	660430 ✓	19.694	PPBv	96
66) 1,2,4-TRICHLOROBENZENE	22.43	180	485195 ✓	20.942	PPBv	98
67) NAPHTHALENE	22.57	128	1122897 ✓	20.905	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	451853 ✓	22.561	PPBv	92

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

B052413.D TO052410.M

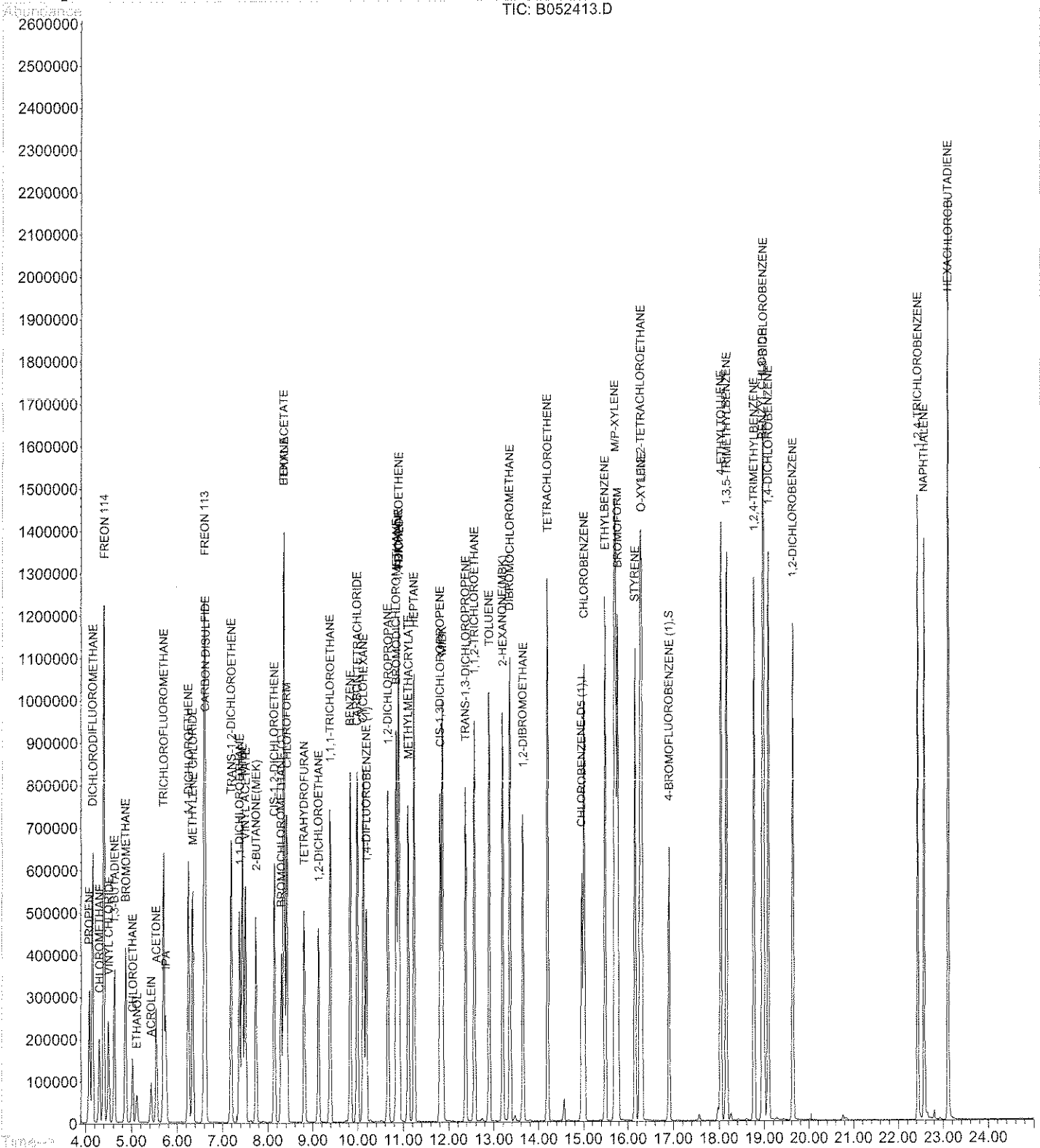
Tue Jun 01 13:55:49 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052413.D
Acq On : 24 May 2010 8:34 pm
Sample : 20PPBV STD
Misc : CTWS-2514
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052414.D

Vial: 2

Acq On : 24 May 2010 9:21 pm

Operator: TPH

Sample : 50PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	252557 ✓	8.00	PPBv	0.01
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	462607 ✓	8.00	PPBv	0.01
44) CHLOROBENZENE-D5 (1)	14.95	117	439619 ✓	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	239784 ✓	8.13	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.63%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	572433 ✓	39.683	PPBv	99
3) DICHLORODIFLUOROMETHANE	4.15	85	1581595 ✓	35.041	PPBv	100
4) CHLOROMETHANE	4.30	50	708860 ✓	41.430	PPBv	99
5) FREON 114	4.39	85	2024316 ✓	38.029	PPBv	95
6) VINYL CHLORIDE	4.50	62	782568 ✓	43.045	PPBv	96
7) 1,3-BUTADIENE	4.62	54	485504 ✓	42.345	PPBv	95
8) BROMOMETHANE	4.86	94	867575 ✓	40.221	PPBv	97
9) CHLOROETHANE	5.02	64	402875 ✓	45.922	PPBv	94
10) ACROLEIN	5.42	56	258566 ✓	41.469	PPBv	96
11) ACETONE	5.53	43	1070819 ✓	40.948	PPBv	84
12) TRICHLOROFLUOROMETHANE	5.69	101	1625451 ✓	41.224	PPBv	99
13) ETHANOL	5.11	45	230016 ✓	37.353	PPBv	94
14) 1,1-DICHLOROETHENE	6.24	61	1279504 ✓	42.662	PPBv	95
15) METHYLENE CHLORIDE	6.34	49	1008739 ✓	38.243	PPBv	94
16) FREON 113	6.59	101	1514017 ✓	45.924	PPBv	95
17) CARBON DISULFIDE	6.62	76	2514837 ✓	44.550	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.19	61	1197875 ✓	43.718	PPBv #	67
19) 1,1-DICHLOROETHANE	7.37	63	1474553 ✓	43.360	PPBv	98
20) MTBE	7.43	73	2082133 ✓	43.970	PPBv	91
21) IPA	5.74	45	1087165 ✓	40.040	PPBv	94
22) 2-BUTANONE (MEK)	7.73	43	1962661 ✓	40.203	PPBv	90
23) CIS-1,2-DICHLOROETHENE	8.14	61	1119099 ✓	43.027	PPBv	94
24) VINYL ACETATE	7.51	43	2580104 ✓	40.968	PPBv	94
25) HEXANE	8.36	41	794880 ✓	35.651	PPBv #	66
26) ETHYL ACETATE	8.35	61	266624 ✓	44.728	PPBv	90
27) CHLOROFORM	8.42	83	1687468 ✓	45.088	PPBv	100
28) TETRAHYDROFURAN	8.81	71	388840 ✓	48.064	PPBv	96
29) 1,2-DICHLOROETHANE	9.13	62	1044006 ✓	42.386	PPBv	97
31) 1,1,1-TRICHLOROETHANE	9.39	97	1393062 ✓	45.499	PPBv	97
32) BENZENE	9.84	78	2183993 ✓	42.842	PPBv	99
33) CARBON TETRACHLORIDE	9.99	117	1464653 ✓	47.699	PPBv	99
34) CYCLOHEXANE	10.12	84	954069 ✓	44.902	PPBv #	74
35) 1,2-DICHLOROPROPANE	10.66	63	897336 ✓	43.688	PPBv #	99
36) BROMODICHLOROMETHANE	10.85	83	1832897 ✓	46.468	PPBv	97
37) TRICHLOROETHENE	10.91	95	972935 ✓	45.824	PPBv #	79
38) 1,4-DIOXANE	10.89	88	492966 ✓	44.037	PPBv	79
39) METHYLMETHACRYLATE	11.11	69	895453 ✓	47.957	PPBv #	70
40) HEPTANE	11.24	57	647716 ✓	40.266	PPBv #	79
41) MIBK	11.86	43	2184215 ✓	41.532	PPBv	87
42) CIS-1,3DICHLOROPROPENE	11.81	75	1419880 ✓	47.399	PPBv	97
43) TRANS-1,3-DICHLOROPROPENE	12.38	75	1385693 ✓	48.968	PPBv	98
45) 1,1,2-TRICHLOROETHANE	12.57	97	943654 ✓	46.603	PPBv	91

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

B052414.D TO052410.M

Tue Jun 01 13:55:54 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052414.D

Vial: 2

Acq On : 24 May 2010 9:21 pm

Operator: TPH

Sample : 50PPBv STD

Inst : SYSB

Misc : CTWS-2514

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 25 17:34 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Tue May 25 17:32:49 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.90	91	2256395✓	42.869	PPBv	99
47) 2-HEXANONE (MBK)	13.19	43	2075397✓	38.932	PPBv	91
48) DIBROMOCHLOROMETHANE	13.36	129	1967811✓	48.387	PPBv	98
49) 1,2-DIBROMOETHANE	13.64	107	1658827✓	46.287	PPBv	99
50) TETRACHLOROETHENE	14.20	166	1213601✓	49.102	PPBv	99
51) CHLOROBENZENE	15.01	112	1871646✓	45.359	PPBv	97
52) ETHYLBENZENE	15.49	91	2920736✓	42.757	PPBv	97
53) M/P-XYLENE	15.72	91	4615534✓	75.882	PPBv	97
54) BROMOFORM	15.78	173	1795429✓	50.652	PPBv	97
55) STYRENE	16.17	104	1761203✓	47.980	PPBv	99
56) O-XYLENE	16.32	91	2241527✓	42.535	PPBv	96
57) 1,1,2,2-TETRACHLOROETHANE	16.28	83	2133769✓	41.846	PPBv	99
59) 4-ETHYLTOLUENE	18.04	105	2914729✓	45.100	PPBv	92
60) 1,3,5-TRIMETHYLBENZENE	18.16	105	2344302✓	44.820	PPBv	93
61) 1,2,4-TRIMETHYLBENZENE	18.78	105	2360583✓	46.318	PPBv	91
62) 1,3-DICHLOROBENZENE	18.99	146	1812317✓	47.009	PPBv	97
63) BENZYL CHLORIDE	18.97	91	2315558✓	44.988	PPBv	91
64) 1,4-DICHLOROBENZENE	19.10	146	1877583✓	48.172	PPBv	96
65) 1,2-DICHLOROBENZENE	19.63	146	1750459✓	49.148	PPBv	94
66) 1,2,4-TRICHLOROBENZENE	22.43	180	1264732✓	51.400	PPBv	97
67) NAPHTHALENE	22.58	128	2854923✓	50.044	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	991664✓	46.620	PPBv	91

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

B052414.D TO052410.M

Tue Jun 01 13:55:55 2010

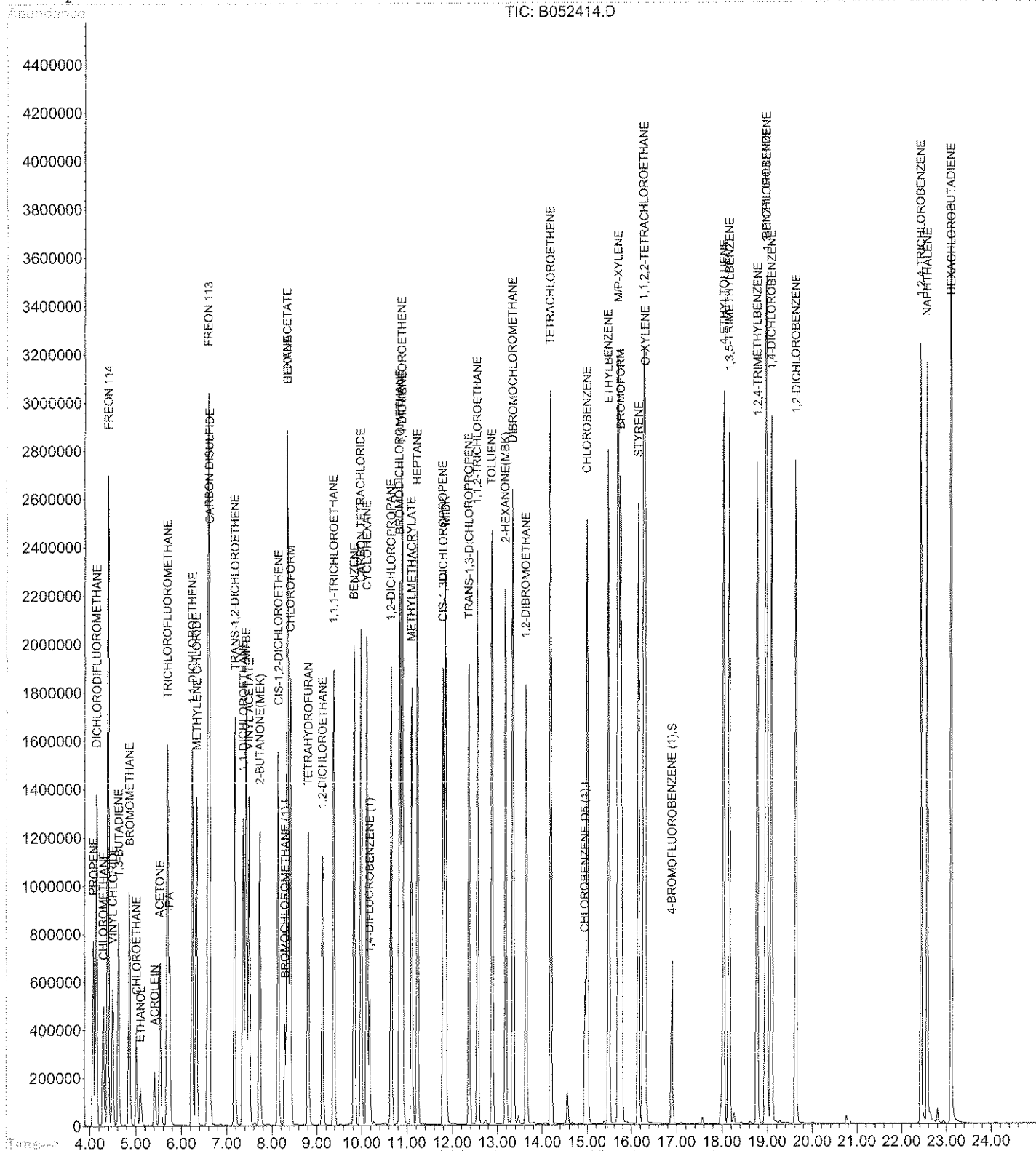
Page 2

Data File : D:\HPCHEM\1\DATA\B052410\B052414.D
Acq On : 24 May 2010 9:21 pm
Sample : 50PPBV STD
Misc : CTWS-2514
MS Integration Params: 11095INT.P
Quant Time: May 25 17:34 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Tue Jun 01 13:53:16 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B052410\B052415.D
 Acq On : 24 May 2010 11:32 pm
 Sample : 5.0PPBv LCS
 Misc :
 MS Integration Params: 11095INT.P

Vial: 3
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue Jun 01 13:53:16 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE (1)	8.000	8.000	0.0	102	0.00
2	PROPENE	5.000	4.326	13.5	101	0.00
3	DICHLORODIFLUOROMETHANE	5.000	4.206	15.9	92	0.00
4	CHLOROMETHANE	5.000	3.464	30.7#	86	0.00
5	FREON 114	5.000	3.540	29.2	80	0.00
6	VINYL CHLORIDE	5.000	3.947	21.1	94	0.00
7	1,3-BUTADIENE	5.000	3.962	20.8	95	0.00
8	BROMOMETHANE	5.000	3.809	23.8	95	0.00
9	CHLOROETHANE	5.000	4.685	6.3	112	0.00
10	ACROLEIN	5.000	4.302	14.0	115	0.00
11	ACETONE	5.000	4.208	15.8	106	0.00
12	TRICHLOROFLUOROMETHANE	5.000	4.428	11.4	100	0.00
13	ETHANOL	5.000	3.476	30.5#	84	0.00
14	1,1-DICHLOROETHENE	5.000	4.706	5.9	107	0.00
15	METHYLENE CHLORIDE	5.000	4.324	13.5	106	0.00
16	FREON 113	5.000	4.740	5.2	109	0.00
17	CARBON DISULFIDE	5.000	4.716	5.7	107	0.00
18	TRANS-1,2-DICHLOROETHENE	5.000	4.814	3.7	106	0.00
19	1,1-DICHLOROETHANE	5.000	4.654	6.9	105	0.00
20	MTBE	5.000	4.349	13.0	98	0.00
21	IPA	5.000	3.697	26.1	85	0.00
22	2-BUTANONE (MEK)	5.000	3.980	20.4	95	0.00
23	CIS-1,2-DICHLOROETHENE	5.000	4.729	5.4	106	0.00
24	VINYL ACETATE	5.000	3.998	20.0	94	0.00
25	HEXANE	5.000	4.523	9.5	102	0.00
26	ETHYL ACETATE	5.000	4.767	4.7	97	0.00
27	CHLOROFORM	5.000	4.672	6.6	106	0.00
28	TETRAHYDROFURAN	5.000	4.492	10.2	95	0.00
29	1,2-DICHLOROETHANE	5.000	4.596	8.1	102	0.00
30	1,4-DIFLUOROBENZENE (1)	8.000	8.000	0.0	108	0.00
31	1,1,1-TRICHLOROETHANE	5.000	4.396	12.1	105	0.00
32	BENZENE	5.000	4.256	14.9	105	0.00
33	CARBON TETRACHLORIDE	5.000	4.507	9.9	105	0.00
34	CYCLOHEXANE	5.000	4.174	16.5	103	0.00
35	1,2-DICHLOROPROPANE	5.000	4.339	13.2	103	0.00
36	BROMODICHLOROMETHANE	5.000	4.484	10.3	103	0.00
37	TRICHLOROETHENE	5.000	4.556	8.9	106	0.00
38	1,4-DIOXANE	5.000	4.085	18.3	92	0.00
39	METHYLMETHACRYLATE	5.000	4.337	13.3	97	0.00
40	HEPTANE	5.000	4.221	15.6	100	0.00
41	MIBK	5.000	4.007	19.9	90	0.00
42	CIS-1,3DICHLOROPROPENE	5.000	4.733	5.3	108	0.00
43	TRANS-1,3-DICHLOROPROPENE	5.000	4.283	14.3	94	0.00
44 I	CHLOROBENZENE-D5 (1)	8.000	8.000	0.0	107	0.00
45	1,1,2-TRICHLOROETHANE	5.000	4.490	10.2	104	0.00
46	TOLUENE	5.000	4.305	13.9	103	0.00
47	2-HEXANONE (MBK)	5.000	3.830	23.4	88	0.00
48	DIBROMOCHLOROMETHANE	5.000	4.448	11.0	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

47

Data File : D:\HPCHEM\1\DATA\B052410\B052415.D Vial: 3
 Acq On : 24 May 2010 11:32 pm Operator: TPH
 Sample : 5.0PPBv LCS Inst : SYSB
 Misc : Multiplr: 1.00
 MS Integration Params: 11095INT.P

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue Jun 01 13:53:16 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	1,2-DIBROMOETHANE	5.000	4.465	10.7	101	0.00
50	TETRACHLOROETHENE	5.000	4.475	10.5	103	0.00
51	CHLOROBENZENE	5.000	4.371	12.6	101	0.00
52	ETHYLBENZENE	5.000	4.245	15.1	99	0.00
53	M/P-XYLENE	10.000	8.805	12.0	100	0.00
54	BROMOFORM	5.000	4.568	8.6	99	0.00
55	STYRENE	5.000	4.469	10.6	98	0.00
56	O-XYLENE	5.000	4.283	14.3	99	0.00
57	1,1,2,2-TETRACHLOROETHANE	5.000	4.362	12.8	96	0.00
58 S	4-BROMOFLUOROBENZENE (1)	8.000	8.080	-1.0	105	0.00
59	4-ETHYLTOLUENE	5.000	4.343	13.1	94	0.00
60	1,3,5-TRIMETHYLBENZENE	5.000	4.336	13.3	98	0.00
61	1,2,4-TRIMETHYLBENZENE	5.000	4.462	10.8	98	0.00
62	1,3-DICHLOROBENZENE	5.000	4.475	10.5	99	0.00
63	BENZYL CHLORIDE	5.000	4.528	9.4	94	0.00
64	1,4-DICHLOROBENZENE	5.000	4.370	12.6	98	0.00
65	1,2-DICHLOROBENZENE	5.000	4.405	11.9	99	0.00
66	1,2,4-TRICHLOROBENZENE	5.000	4.710	5.8	110	0.00
67	NAPHTHALENE	5.000	5.459	-9.2	107	0.00
68	HEXACHLOROBUTADIENE	5.000	4.458	10.8	103	0.00

Data File : D:\HPCHEM\1\DATA\B052410\B052415.D

Vial: 3

Acq On : 24 May 2010 11:32 pm

Operator: TPH

Sample : 5.0PPBv LCS

Inst : SYSB

Misc :

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 27 14:11 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Thu May 27 14:08:58 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.27	49	246644	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.17	114	475297	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	432255	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.89	174	234191	8.08	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	101.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.07	41	60945	4.326	PPBv	98
3) DICHLORODIFLUOROMETHANE	4.14	85	185402	4.206	PPBv	99
4) CHLOROMETHANE	4.29	50	57885	3.464	PPBv	96
5) FREON 114	4.38	85	184032	3.540	PPBv	98
6) VINYL CHLORIDE	4.49	62	70071	3.947	PPBv	96
7) 1,3-BUTADIENE	4.62	54	44358	3.962	PPBv	97
8) BROMOMETHANE	4.86	94	80225	3.809	PPBv	97
9) CHLOROETHANE	5.01	64	40135	4.685	PPBv	94
10) ACROLEIN	5.41	56	26196	4.302	PPBv	98
11) ACETONE	5.53	43	107457	4.208	PPBv	83
12) TRICHLOROFLUOROMETHANE	5.69	101	170517	4.428	PPBv	99
13) ETHANOL	5.10	45	19460	3.476	PPBv	94
14) 1,1-DICHLOROETHENE	6.24	61	137832	4.706	PPBv	93
15) METHYLENE CHLORIDE	6.33	49	111396	4.324	PPBv	98
16) FREON 113	6.59	101	152604	4.740	PPBv	96
17) CARBON DISULFIDE	6.62	76	260000	4.716	PPBv	97
18) TRANS-1,2-DICHLOROETHENE	7.18	61	128806	4.814	PPBv #	67
19) 1,1-DICHLOROETHANE	7.36	63	154546	4.654	PPBv	98
20) MTBE	7.43	73	201089	4.349	PPBv	92
21) IPA	5.73	45	91819	3.697	PPBv	94
22) 2-BUTANONE (MEK)	7.72	43	189761	3.980	PPBv	92
23) CIS-1,2-DICHLOROETHENE	8.12	61	120117	4.729	PPBv	99
24) VINYL ACETATE	7.49	43	245898	3.998	PPBv	96
25) HEXANE	8.35	41	98476	4.523	PPBv #	62
26) ETHYL ACETATE	8.34	61	27749	4.767	PPBv	97
27) CHLOROFORM	8.40	83	170739	4.672	PPBv	99
28) TETRAHYDROFURAN	8.80	71	35490	4.492	PPBv	95
29) 1,2-DICHLOROETHANE	9.12	62	110546	4.596	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.37	97	138273	4.396	PPBv	99
32) BENZENE	9.82	78	222929	4.256	PPBv	97
33) CARBON TETRACHLORIDE	9.98	117	142179	4.507	PPBv	98
34) CYCLOHEXANE	10.11	84	91114	4.174	PPBv #	82
35) 1,2-DICHLOROPROPANE	10.65	63	91567	4.339	PPBv #	99
36) BROMODICHLOROMETHANE	10.84	83	181739	4.484	PPBv	96
37) TRICHLOROETHENE	10.89	95	99381	4.556	PPBv	88
38) 1,4-DIOXANE	10.89	88	46989	4.085	PPBv	91
39) METHYLMETHACRYLATE	11.10	69	83212	4.337	PPBv #	79
40) HEPTANE	11.22	57	69763	4.221	PPBv	86
41) MIBK	11.84	43	216497	4.007	PPBv	91
42) CIS-1,3DICHLOROPROPENE	11.79	75	145684	4.733	PPBv	99
43) TRANS-1,3-DICHLOROPROPENE	12.36	75	124520	4.283	PPBv	99
45) 1,1,2-TRICHLOROETHANE	12.56	97	89402	4.490	PPBv	90

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

Data File : D:\HPCHEM\1\DATA\B052410\B052415.D

Vial: 3

Acq On : 24 May 2010 11:32 pm

Operator: TPH

Sample : 5.0PPBv LCS

Inst : SYSB

Misc :

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: May 27 14:11 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Thu May 27 14:08:58 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.89	91	222805	4.305	PPBv	100
47) 2-HEXANONE (MBK)	13.18	43	200737	3.830	PPBv	89
48) DIBROMOCHLOROMETHANE	13.34	129	177881	4.448	PPBv	98
49) 1,2-DIBROMOETHANE	13.63	107	157337	4.465	PPBv	99
50) TETRACHLOROETHENE	14.19	166	108746	4.475	PPBv	97
51) CHLOROBENZENE	15.00	112	177339	4.371	PPBv	97
52) ETHYLBENZENE	15.48	91	285091	4.245	PPBv	100
53) M/P-XYLENE	15.71	91	482174	8.805	PPBv	94
54) BROMOFORM	15.76	173	159221	4.568	PPBv	99
55) STYRENE	16.16	104	161313	4.469	PPBv	95
56) O-XYLENE	16.30	91	221922	4.283	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.26	83	218678	4.362	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	275999	4.343	PPBv	95
60) 1,3,5-TRIMETHYLBENZENE	18.14	105	223005	4.336	PPBv	95
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	223577	4.462	PPBv	94
62) 1,3-DICHLOROBENZENE	18.97	146	169629	4.475	PPBv	99
63) BENZYL CHLORIDE	18.94	91	229148	4.528	PPBv	96
64) 1,4-DICHLOROBENZENE	19.08	146	167473	4.370	PPBv	98
65) 1,2-DICHLOROBENZENE	19.62	146	154254	4.405	PPBv	97
66) 1,2,4-TRICHLOROBENZENE	22.43	180	113962	4.710	PPBv	98
67) NAPHTHALENE	22.56	128	279132	5.459	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	93232	4.458	PPBv	98

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

B052415.D TO052410.M

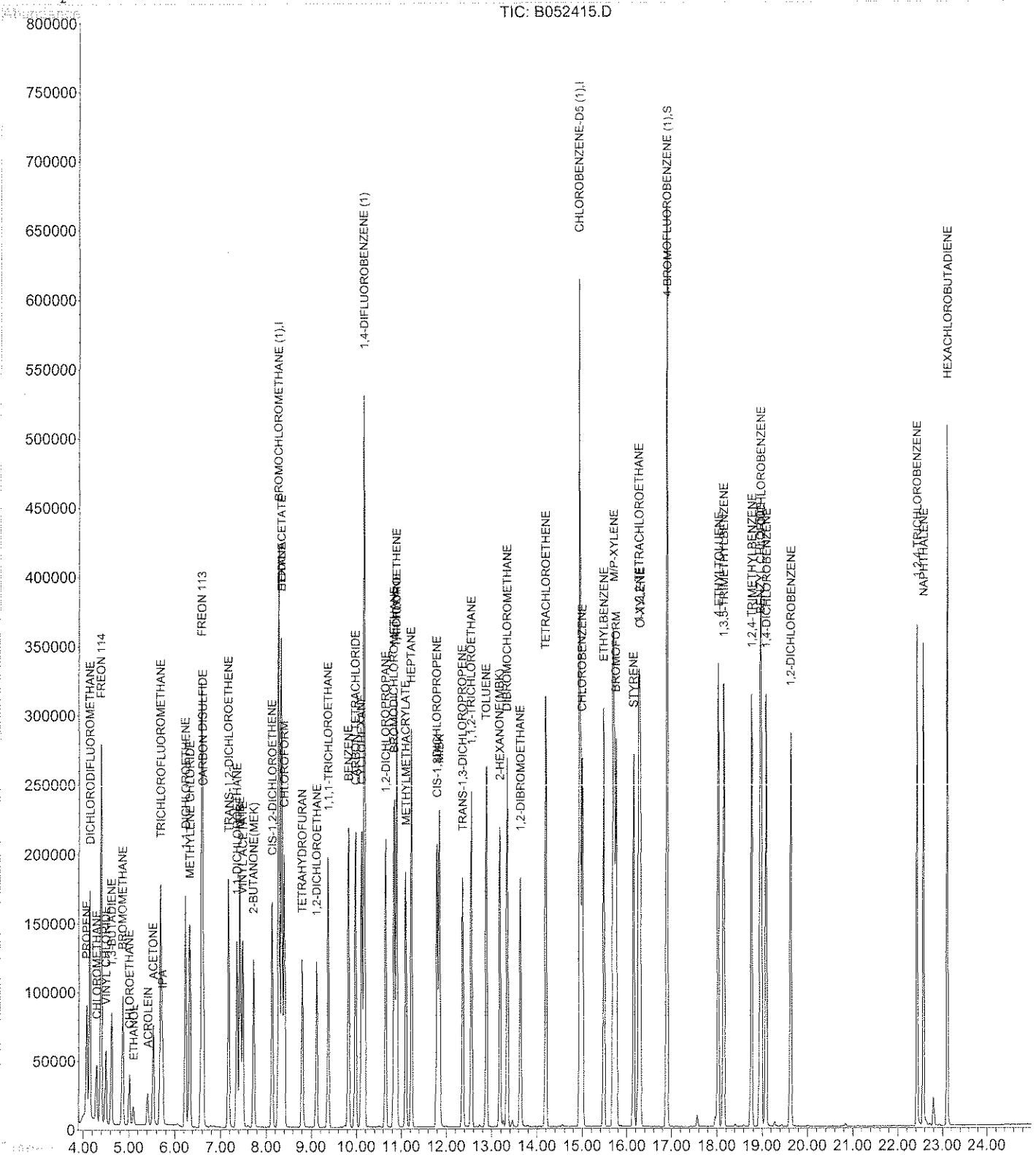
Mon Jul 12 15:24:15 2010

Data File : D:\HPCHEM\1\DATA\B052410\B052415.D
 Acq On : 24 May 2010 11:32 pm
 Sample : 5.0PPBV LCS
 Misc :
 MS Integration Params: 11095INT.P
 Quant Time: May 27 14:11 2010

Vial: 3
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Tue Jun 01 13:53:16 2010
 Response via : Initial Calibration



Injection Log

Directory: D:\HPCHEM1\DATA\B112110

51

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	1	B112101.d	1.	BFB	CTWS-2568	21 Nov 2010 19:12
2	2	B112102.d	1.	5.0PPBv CCV	CTWS-2552	21 Nov 2010 19:52
3	3	B112103.d	1.	5.0PPBv LCS	CTWS-2553	21 Nov 2010 20:32
4	6	B112104.d	1.	6.25ug-m3 CCV Acro(x)	CTWS-2569	21 Nov 2010 21:12
5	7	B112105.d	1.	6.25ug-m3 LCS Acro(x)	CTWS-2570	21 Nov 2010 21:53
6	21	B112106.d	1.	<u>CLUP</u>		21 Nov 2010 22:33
7	21	B112107.d	1.	MBL 0.5X	1,1,400,800,0.5X	21 Nov 2010 23:18
8	22	B112108.d	1.	10K0617-01 0.7X	1.5,1,400,855,0.7X	22 Nov 2010 00:22
9	23	B112109.d	1.	10K0616-04 0.7X	1.5,1,400,855,0.7X	22 Nov 2010 01:09
10	24	B112110.d	1.	10K0616-03 0.7X	1.5,1,400,855,0.7X	22 Nov 2010 01:56
11	25	B112111.d	1.	10K0616-02 0.7X	1.5,1,400,855,0.7X	22 Nov 2010 02:45
12	26	B112112.d	1.	<u>10K0616-01 20X</u> NR	1.5,1,400,30,20X	22 Nov 2010 03:25
13	27	B112113.d	1.	10K0618-01 1X	1,1,400,400,1X	22 Nov 2010 04:06
14	27	B112114.d	1.	10K0618-01 1XDUP	1,1,400,400,1XDUP	22 Nov 2010 04:47
15	28	B112115.d	1.	10K0618-02 1X	1,1,400,400,1X	22 Nov 2010 05:31
16	32	B112116.d	1.	10K0662-04 10X	1,1,400,40,10X	22 Nov 2010 06:11
17	33	B112117.d	1.	10K0662-05 10X	1,1,400,40,10X	22 Nov 2010 06:52
18	34	B112118.d	1.	10K0662-06 10X	1,1,400,40,10X	22 Nov 2010 07:32
19	35	B112119.d	1.	<u>10K0699-01 80X</u> NR	2,1,400,10,80X	22 Nov 2010 08:13
20	21	B112120.d	1.	<u>CLUP</u>	2,1,400,10,80X	22 Nov 2010 08:53
21	26	B112121.d	1.	10K0616-01 2X	1.5,1,400,300,2X	22 Nov 2010 09:34
22	21	B112122.d	1.	<u>CLUP</u>	2,1,400,10,80X	22 Nov 2010 10:15
23	35	B112123.d	1.	<u>10K0699-01 100X</u> NR	2,1,400,10,80X	22 Nov 2010 13:52
24	27	B112124.d	1.	10K0618-01 5X RE	1,1,400,400,1X	22 Nov 2010 14:33
25	27	B112125.d	1.	10K0618-01 5XDUP Dup2	1,1,400,400,1X	22 Nov 2010 15:15
26	28	B112126.d	1.	10K0618-02 5X RE	1,1,400,400,1X	22 Nov 2010 15:57
27	35	B112127.d	1.	10K0699-01 200X	2,1,400,400,200X 0.01	22 Nov 2010 17:08

CCV
Br M L
Acryl H

B 22709
602 QC 112410

B 22790
617 5544
618
QC 112410

B 22792
6100
QC 112410

LCS
14 Dax C
MIBK L
Acryl H
BDCP L
Comen L
DBCP L

B 22869 up 112910
699 among dilution *
See Misc Info
Add note for Brn(V-S)

* Fixed in data before sending report
to client - data review note.

MBL 0.5X
Acc 0637

Sequence Name: C:\SMART\112110.SEQ
Date: 11-23-2010
Time: 16:20:21
Int. Std Volume: 100 cc

Sample Name	Inlet #	Auto Pos	Samp Vol.	Cal Std Vol.	Method	Time
BFB	1	1	100	0	C:\SMART\051010.CTD	12:00
5.0PPBv CCV	1	2	100	0	C:\SMART\051010.CTD	12:00
5.0PPBv LCS	1	3	100	0	C:\SMART\051010.CTD	12:00
6.25ug-m3 CCV	1	6	200	0	C:\SMART\051010.CTD	12:00
6.25ug-m3 LCS	1	7	50	0	C:\SMART\051010.CTD	12:00
CLUP	2	1	100	0	C:\SMART\051010.CTD	12:00
MBL 0.5X	2	1	800	0	C:\SMART\051010.CTD	12:00
10K0617-01 0.7X	2	2	855	0	C:\SMART\051010.CTD	12:00
10K0616-04 0.7X	2	3	855	0	C:\SMART\051010.CTD	12:00
10K0616-03 0.7X	2	4	855	0	C:\SMART\051010.CTD	12:00
10K0616-02 0.7X	2	5	855	0	C:\SMART\051010.CTD	12:00
10K0616-01 20X	2	6	30	0	C:\SMART\051010.CTD	12:00
10K0618-01 1X	2	7	400	0	C:\SMART\051010.CTD	12:00
10K0618-01 1XDUP	2	7	400	0	C:\SMART\051010.CTD	12:00
10K0618-02 1X	2	8	400	0	C:\SMART\051010.CTD	12:00
10K0662-04 10X	2	12	40	0	C:\SMART\051010.CTD	12:00
10K0662-05 10X	2	13	40	0	C:\SMART\051010.CTD	12:00
10K0662-06 10X	2	14	40	0	C:\SMART\051010.CTD	12:00
10K0699-01 80X	2	15	10	0	C:\SMART\051010.CTD	12:00
CLUP	2	1	100	0	C:\SMART\051010.CTD	12:00
10K0616-01 2X	2	6	300	0	C:\SMART\051010.CTD	12:00
CLUP	2	1	100	0	C:\SMART\051010.CTD	12:00
10K0699-01 100X	2	15	8	0	C:\SMART\051010.CTD	12:00
10K0618-01 5X	2	7	80	0	C:\SMART\051010.CTD	12:00
10K0618-01 5XDUP	2	7	80	0	C:\SMART\051010.CTD	12:00
10K0618-02 5X	2	8	80	0	C:\SMART\051010.CTD	12:00
10K0699-01 200X	2	15	400	0	C:\SMART\051010.CTD	12:00

ANALYTICAL METHOD: **TO14/15**
 INSTRUMENT DESIGNATOR/SERIAL NUMBER: **SYS 8"**
 NAME:
 LINESAT:
 SAMPLE NUMBERS:
 ANALYSIS DATE:

HON-COMFORMANCE FORM
 DEFAULT RANGE:
0.05 - 50 PPBV

5-24-10 ICAL DATE
 QUANT METHOD NAME:
TO052410.DM

INITIAL CALIBRATION CRITERIA	INITIAL CALIBRATION COMPOUNDS	ADJUSTMENT TO HIGHEST STANDARD IN ICAL	ADJUSTMENT TO REPORTING LIMIT IN ICAL	CONTINUING CALIBRATION CRITERIA FILE NUMBER
INITIAL CALIBRATION CRITERIA (RSD CCC = 1.5, Ethylbenzene, Chlorobenzene, 1,2-Dichlorobenzene, Toluene, Ethylbenzene, Vinyl Chloride) (RSD CCC = Acetophenone, 1,4-Dichlorobenzene, Hexachlorobenzene, Diphenylmethane, Diethylphthalate, Ethylbenzene, Propylbenzene, 4-Ethylphenol, 2-Ethylphenol, 2,4,6-Trichlorophenol)	(R < 0.9) LESS THAN A 5 POINT CURVE, RESPONSE FACTORS < 0.05) IF CRITERIA ARE NOT MET. LIST COMPOUNDS, DATA MUST BE FLAGGED AS ESTIMATED WITH NGIE. NOTE: SCALOUT NOT	LIST COMPOUNDS WHEN LOWEST POINT IN CURVE IS DROPPED AND NEW REPORTING LIMIT IS MANUALLY ENTERED ALONG WITH NEW R/L LISTED BELOW	IF CRITERIA ARE NOT MET, LIST COMPOUNDS, DATA MUST BE FLAGGED AS ESTIMATED WITH NGIE. SCALOUT NOT	
MASSACHUSETTS and CONNECTICUT 8250 8270 ALL OTHERS (S/W 845 8000) 8260 8270	% RSD <= 15% OR R >= 0.99 EXCEPT CCC MUST BE <= 30% % RSD <= 15% OR R >= 0.99 EXCEPT CCC MUST BE <= 30% W/ RSD <= 15% OR R >= 0.99 EXCEPT CCC <= 30% % RSD <= 15% OR R >= 0.99 EXCEPT CCC <= 30% RSD <= 1.35%			%D FOR CCC <= 20%, ALL OTHERS <= 30% %D FOR CCC <= 20%, ALL OTHERS <= 30% %D <= 20% %D <= 20% %D <= 20%
ALL TO-14	% RSD <= 10% OR R >= 0.99	Acetone 0.5	Acetone 0.5	LES
ALL TO-15	W/ RSD <= 30% <= 50% FOR DIFFICULT COMPOUNDS	Ethanol 0.5	Ethanol 0.5	1,4-Dioxane (4) MEK
APH	% RSD <= 20% or R >= 0.99	Methylbenzyl Chloride 0.1	Methylbenzyl Chloride 0.1	HCAD (4)
524.2	% RSD <= 20% or R >= 0.99	IPA 0.1	IPA 0.1	
		MEK 0.1	MEK 0.1	
		Vinyl Acetate 0.1	Vinyl Acetate 0.1	
		Hexane 0.1	Hexane 0.1	

Tune File : D:\HPCHEM\1\DATA\B112110\B112101.D

Tune Time : 21 Nov 2010 7:12 pm

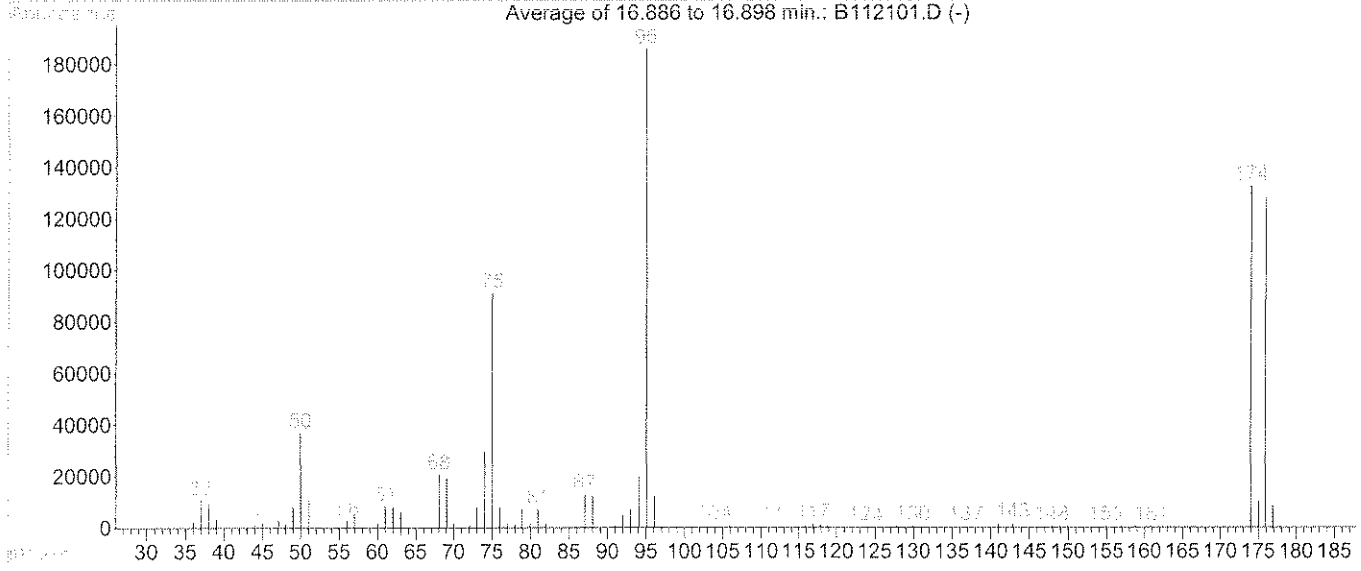
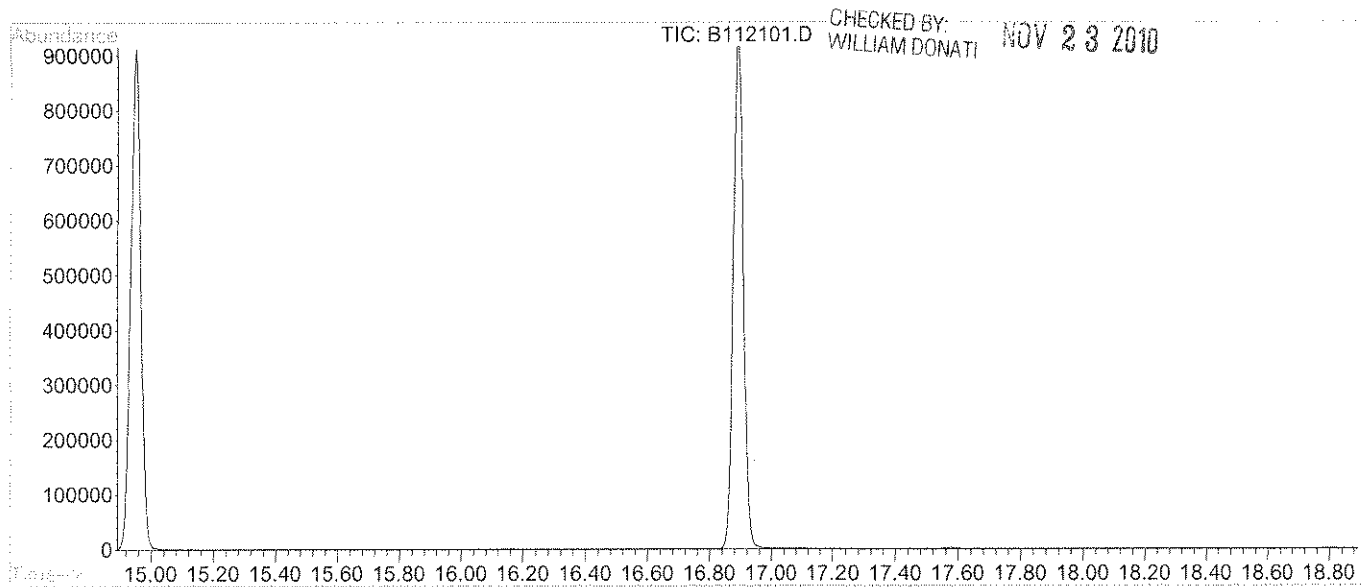
Daily Calibration File : D:\HPCHEM\1\DATA\B112110\B112102.D

File	Sample	Surrogate	Recovery %	353966	642719	603670
Internal Standard Responses						
B112103.D	5.0PPBv LCS		95	340634	625046	587828
B112107.D	MBL 0.5X		92	335660	579469	548314
B112108.D	10K0617-01 0.7X		94	331807	564880	533096
B112109.D	10K0616-04 0.7X		92	332541	565538	529622
B112110.D	10K0616-03 0.7X		93	326454	549796	519902
B112111.D	10K0616-02 0.7X		92	327516	558872	524461
B112112.D	10K0616-01 20X		92	329450	551035	519052
B112113.D	10K0618-01 1X		94	323895	542605	528244
B112114.D	10K0618-01 1XDU		94	337593	606261	577893
B112115.D	10K0618-02 1X		95	337807	626208	580643
B112116.D	10K0662-04 10X		94	339362	635376	596965
B112117.D	10K0662-05 10X		94	330781	616941	577296
B112118.D	10K0662-06 10X		94	325879	604097	563892
B112119.D	10K0699-01 80X		93	325732	597443	559733
B112120.D	CLUP		93	317263	575564	540755
B112121.D	10K0616-01 2X		94	316136	563248	529757
B112122.D	CLUP		94	308814	543748	506119
B112123.D	10K0699-01 100X		94	315925	541595	509726
B112124.D	10K0618-01 5X		95	309414	516243	491605
B112125.D	10K0618-01 5XDU		94	305131	534932	500909
B112126.D	10K0618-02 5X		95	315859	556320	523330
B112127.D	10K0699-01 200X		94	317249	562348	528840

t - fails 24hr time check * - fails criteria

Created: Tue Nov 23 16:12:38 2010 SYSB

Data File : D:\HPCHEM\1\DATA\B112110\B112101.D Vial: 1
 Acq On : 21 Nov 2010 7:12 pm Operator: TPH
 Sample : BFB Inst : SYSB
 Misc : CTWS-2568 Multiplr: 1.00
 MS Integration Params: 11095INT.P
 Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15



AutoFind: Scans 2165, 2166, 2167; Background Corrected with Scan 2155

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.9	37005	PASS
75	95	30	66	48.9	90947	PASS
95	95	100	100	100.0	185835	PASS
96	95	5	9	6.6	12325	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	71.2	132261	PASS
175	174	4	9	7.6	9996	PASS
176	174	93	101	96.5	127677	PASS
177	176	5	9	6.7	8546	PASS

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D
 Acq On : 21 Nov 2010 7:52 pm
 Sample : 5.0PPbv CCV
 Misc : CTWS-2552
 MS Integration Params: 11095INT.P

Vial: 2
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

CHECKED BY: WILLIAM DONATI NOV 23 2010

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I BROMOCHLOROMETHANE (1)	8.000	8.000	0.0	147	0.00
2 PROPENE	5.000	4.309	13.8	144	0.02
3 DICHLORODIFLUOROMETHANE	5.000	4.260	14.8	134	0.02
4 CHLOROMETHANE	5.000	3.718	25.6	132	0.02
5 FREON 114	5.000	3.966	20.7	129	0.02
6 VINYL CHLORIDE	5.000	3.893	22.1	133	0.02
7 1,3-BUTADIENE	5.000	3.758	24.8	129	0.02
8 BROMOMETHANE	5.000	3.466	30.7#	124	0.02
9 CHLOROETHANE	5.000	3.923	21.5	134	0.00
10 ACROLEIN	5.000	4.976	0.5	191	0.02
11 ACETONE	5.000	5.684	-13.7	206	0.00
12 TRICHLOROFLUOROMETHANE	5.000	3.995	20.1	130	0.02
13 ETHANOL	5.000	5.059	-1.2	175	0.02
14 1,1-DICHLOROETHENE	5.000	4.277	14.5	139	0.02
15 METHYLENE CHLORIDE	5.000	3.935	21.3	138	0.02
16 FREON 113	5.000	4.299	14.0	142	0.02
17 CARBON DISULFIDE	5.000	4.582	8.4	149	0.02
18 TRANS-1,2-DICHLOROETHENE	5.000	4.399	12.0	140	0.02
19 1,1-DICHLOROETHANE	5.000	4.452	11.0	145	0.00
20 MTBE	5.000	4.361	12.8	142	0.00
21 IPA	5.000	6.138	-22.8	202	0.00
22 2-BUTANONE (MEK)	5.000	3.782	24.4	130	0.00
23 CIS-1,2-DICHLOROETHENE	5.000	4.377	12.5	140	0.00
24 VINYL ACETATE	5.000	3.841	23.2	129	0.00
25 HEXANE	5.000	4.108	17.8	133	0.00
26 ETHYL ACETATE	5.000	4.861	2.8	142	0.00
27 CHLOROFORM	5.000	4.402	12.0	144	0.00
28 TETRAHYDROFURAN	5.000	4.767	4.7	145	0.00
29 1,2-DICHLOROETHANE	5.000	4.159	16.8	132	0.00
30 1,4-DIFLUOROBENZENE (1)	8.000	8.000	0.0	147	0.00
31 1,1,1-TRICHLOROETHANE	5.000	4.322	13.6	139	0.00
32 BENZENE	5.000	4.441	11.2	148	0.00
33 CARBON TETRACHLORIDE	5.000	4.289	14.2	135	0.00
34 CYCLOHEXANE	5.000	4.438	11.2	149	0.00
35 1,2-DICHLOROPROPANE	5.000	4.531	9.4	145	0.00
36 BROMODICHLOROMETHANE	5.000	4.611	7.8	143	0.00
37 TRICHLOROETHENE	5.000	4.516	9.7	142	0.00
38 1,4-DIOXANE	5.000	4.474	10.5	136	0.00
39 METHYLMETHACRYLATE	5.000	4.614	7.7	139	0.00
40 HEPTANE	5.000	4.437	11.3	143	0.00
41 MIBK	5.000	4.081	18.4	125	0.00
42 CIS-1,3DICHLOROPROPENE	5.000	4.673	6.5	145	0.00
43 TRANS-1,3-DICHLOROPROPENE	5.000	4.775	4.5	142	0.00
44 I CHLOROBENZENE-D5 (1)	8.000	8.000	0.0	149	0.00
45 1,1,2-TRICHLOROETHANE	5.000	4.500	10.0	145	0.00
46 TOLUENE	5.000	4.309	13.8	144	0.00
47 2-HEXANONE (MBK)	5.000	3.832	23.4	123	0.00
48 DIBROMOCHLOROMETHANE	5.000	4.307	13.9	136	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D Vial: 2
 Acq On : 21 Nov 2010 7:52 pm Operator: TPH
 Sample : 5.0PPBv CCV Inst : SYSB
 Misc : CTWS-2552 Multiplr: 1.00
 MS Integration Params: 11095INT.P

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	1,2-DIBROMOETHANE	5.000	4.308	13.8	136	0.00
50	TETRACHLOROETHENE	5.000	4.207	15.9	135	0.00
51	CHLOROBENZENE	5.000	4.271	14.6	138	0.00
52	ETHYLBENZENE	5.000	4.327	13.5	141	0.00
53	M/P-XYLENE	10.000	8.765	12.3	139	0.02
54	BROMOFORM	5.000	4.111	17.8	124	0.00
55	STYRENE	5.000	4.512	9.8	139	0.00
56	O-XYLENE	5.000	4.304	13.9	138	0.00
57	1,1,2,2-TETRACHLOROETHANE	5.000	4.768	4.6	147	0.00
58 S	4-BROMOFLUOROBENZENE (1)	8.000	7.632	4.6	139	0.00
59	4-ETHYLTOLUENE	5.000	4.527	9.5	137	0.00
60	1,3,5-TRIMETHYLBENZENE	5.000	4.379	12.4	138	0.00
61	1,2,4-TRIMETHYLBENZENE	5.000	4.527	9.5	139	0.00
62	1,3-DICHLOROBENZENE	5.000	4.494	10.1	139	0.00
63	BENZYL CHLORIDE	5.000	4.864	2.7	141	0.00
64	1,4-DICHLOROBENZENE	5.000	4.451	11.0	139	0.00
65	1,2-DICHLOROBENZENE	5.000	4.503	9.9	142	0.00
66	1,2,4-TRICHLOROBENZENE	5.000	4.402	12.0	143	0.00
67	NAPHTHALENE	5.000	4.072	18.6	147	0.00
68	HEXACHLOROBUTADIENE	5.000	4.330	13.4	140	0.00

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D Vial: 2
 Acq On : 21 Nov 2010 7:52 pm Operator: TPH
 Sample : 5.0PPBv CCV Inst : SYSB
 Misc : CTWS-2552 Multiplr: 1.00
 MS Integration Params: 11095INT.P

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	BROMOCHLOROMETHANE (1)	1.000	1.000	0.0	147	0.00
2	PROPENE	0.456	0.393	13.8	144	0.02
3	DICHLORODIFLUOROMETHANE	1.429	1.218	14.8	134	0.02
4	CHLOROMETHANE	0.542	0.403	25.6	132	0.02
5	FREON 114	1.686	1.337	20.7	129	0.02
6	VINYL CHLORIDE	0.576	0.448	22.2	133	0.02
7	1,3-BUTADIENE	0.363	0.273	24.8	129	0.02
8	BROMOMETHANE	0.683	0.474	30.6#	124	0.02
9	CHLOROETHANE	0.278	0.218	21.6	134	0.00
10	ACROLEIN	0.197	0.197	0.0	191	0.02
11	ACETONE	0.828	0.942	-13.8	206#	0.00
12	TRICHLOROFLUOROMETHANE	1.249	0.998	20.1	130	0.02
13	ETHANOL	0.182	0.184	-1.1	175	0.02
14	1,1-DICHLOROETHENE	0.950	0.813	14.4	139	0.02
15	METHYLENE CHLORIDE	0.836	0.657	21.4	138	0.02
16	FREON 113	1.044	0.898	14.0	142	0.02
17	CARBON DISULFIDE	1.788	1.639	8.3	149	0.02
18	TRANS-1,2-DICHLOROETHENE	0.868	0.764	12.0	140	0.02
19	1,1-DICHLOROETHANE	1.077	0.959	11.0	145	0.00
20	MTBE	1.500	1.308	12.8	142	0.00
21	IPA	0.806	0.989	-22.7	202#	0.00
22	2-BUTANONE (MEK)	1.545	1.169	24.3	130	0.00
23	CIS-1,2-DICHLOROETHENE	0.824	0.721	12.5	140	0.00
24	VINYL ACETATE	1.995	1.532	23.2	129	0.00
25	HEXANE	0.706	0.580	17.8	133	0.00
26	ETHYL ACETATE	0.189	0.184	2.6	142	0.00
27	CHLOROFORM	1.185	1.044	11.9	144	0.00
28	TETRAHYDROFURAN	0.256	0.244	4.7	145	0.00
29	1,2-DICHLOROETHANE	0.780	0.649	16.8	132	0.00
30	1,4-DIFLUOROBENZENE (1)	1.000	1.000	0.0	147	0.00
31	1,1,1-TRICHLOROETHANE	0.529	0.458	13.4	139	0.00
32	BENZENE	0.882	0.783	11.2	148	0.00
33	CARBON TETRACHLORIDE	0.531	0.456	14.1	135	0.00
34	CYCLOHEXANE	0.367	0.326	11.2	149	0.00
35	1,2-DICHLOROPROPANE	0.355	0.322	9.3	145	0.00
36	BROMODICHLOROMETHANE	0.682	0.629	7.8	143	0.00
37	TRICHLOROETHENE	0.367	0.332	9.5	142	0.00
38	1,4-DIOXANE	0.194	0.173	10.8	136	0.00
39	METHYLMETHACRYLATE	0.323	0.298	7.7	139	0.00
40	HEPTANE	0.278	0.247	11.2	143	0.00
41	MIBK	0.909	0.742	18.4	125	0.00
42	CIS-1,3DICHLOROPROPENE	0.518	0.484	6.6	145	0.00
43	TRANS-1,3-DICHLOROPROPENE	0.489	0.467	4.5	142	0.00
44 I	CHLOROBENZENE-D5 (1)	1.000	1.000	0.0	149	0.00
45	1,1,2-TRICHLOROETHANE	0.368	0.332	9.8	145	0.00
46	TOLUENE	0.958	0.825	13.9	144	0.00
47	2-HEXANONE (MBK)	0.970	0.743	23.4	123	0.00
48	DIBROMOCHLOROMETHANE	0.740	0.638	13.8	136	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D Vial: 2
 Acq On : 21 Nov 2010 7:52 pm Operator: TPH
 Sample : 5.0PPBv CCV Inst : SYSB
 Misc : CTWS-2552 Multiplr: 1.00
 MS Integration Params: 11095INT.P

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	1,2-DIBROMOETHANE	0.652	0.562	13.8	136	0.00
50	TETRACHLOROETHENE	0.450	0.378	16.0	135	0.00
51	CHLOROBENZENE	0.751	0.641	14.6	138	0.00
52	ETHYLBENZENE	1.243	1.076	13.4	141	0.00
53	M/P-XYLENE	1.014	0.888	12.4	139	0.02
54	BROMOFORM	0.645	0.530	17.8	124	0.00
55	STYRENE	0.668	0.603	9.7	139	0.00
56	O-XYLENE	0.959	0.825	14.0	138	0.00
57	1,1,2,2-TETRACHLOROETHANE	0.928	0.885	4.6	147	0.00
58 S	4-BROMOFLUOROBENZENE (1)	0.536	0.512	4.5	139	0.00
59	4-ETHYLTOLUENE	1.176	1.065	9.4	137	0.00
60	1,3,5-TRIMETHYLBENZENE	0.952	0.834	12.4	138	0.00
61	1,2,4-TRIMETHYLBENZENE	0.927	0.840	9.4	139	0.00
62	1,3-DICHLOROBENZENE	0.702	0.631	10.1	139	0.00
63	BENZYL CHLORIDE	0.937	0.911	2.8	141	0.00
64	1,4-DICHLOROBENZENE	0.710	0.632	11.0	139	0.00
65	1,2-DICHLOROBENZENE	0.648	0.584	9.9	142	0.00
66	1,2,4-TRICHLOROBENZENE	0.448	0.394	12.1	143	0.00
67	NAPHTHALENE	1.246	1.015	18.5	147	0.00
68	HEXACHLOROBUTADIENE	0.387	0.335	13.4	140	0.00

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D Vial: 2
 Acq On : 21 Nov 2010 7:52 pm Operator: TPH
 Sample : 5.0PPBv CCV Inst : SYSB
 Misc : CTWS-2552 Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: Nov 21 23:40 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Mon Jul 12 16:49:22 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	353966	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	642719	8.00	PPBv	0.00
44) CHLOROENZENE-D5 (1)	14.95	117	603670	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	308922	7.63	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	95.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	86893	4.309	PPBv	97
3) DICHLORODIFLUOROMETHANE	4.16	85	269452	4.260	PPBv	99
4) CHLOROMETHANE	4.30	50	89129	3.718	PPBv	98
5) FREON 114	4.40	85	295829	3.966	PPBv	85
6) VINYL CHLORIDE	4.50	62	99191	3.893	PPBv	96
7) 1,3-BUTADIENE	4.63	54	60391	3.758	PPBv	97
8) BROMOMETHANE	4.87	94	104752	3.466	PPBv	96
9) CHLOROETHANE	5.02	64	48230	3.923	PPBv	94
10) ACROLEIN	5.42	56	43473	4.976	PPBv	93
11) ACETONE	5.54	43	208340	5.684	PPBv	83
12) TRICHLOROFLUOROMETHANE	5.70	101	220787	3.995	PPBv	98
13) ETHANOL	5.11	45	40759	5.059	PPBv	99
14) 1,1-DICHLOROETHENE	6.25	61	179755	4.277	PPBv	94
15) METHYLENE CHLORIDE	6.35	49	145452	3.935	PPBv	94
16) FREON 113	6.60	101	198642	4.299	PPBv	91
17) CARBON DISULFIDE	6.63	76	362492	4.582	PPBv	98
18) TRANS-1,2-DICHLOROETHENE	7.19	61	168919	4.399	PPBv #	86
19) 1,1-DICHLOROETHANE	7.37	63	212189	4.452	PPBv	98
20) MTBE	7.44	73	289441	4.361	PPBv	93
21) IPA	5.74	45	218885	6.138	PPBv	92
22) 2-BUTANONE (MEK)	7.73	43	258610	3.782	PPBv	89
23) CIS-1,2-DICHLOROETHENE	8.14	61	159556	4.377	PPBv	99
24) VINYL ACETATE	7.50	43	339019	3.841	PPBv	94
25) HEXANE	8.35	41	128363	4.108	PPBv	95
26) ETHYL ACETATE	8.34	61	40607	4.861	PPBv	96
27) CHLOROFORM	8.41	83	230921	4.402	PPBv	99
28) TETRAHYDROFURAN	8.81	71	54044	4.767	PPBv	97
29) 1,2-DICHLOROETHANE	9.12	62	143561	4.159	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	183853	4.322	PPBv	99
32) BENZENE	9.83	78	314515	4.441	PPBv	99
33) CARBON TETRACHLORIDE	9.99	117	182981	4.289	PPBv	99
34) CYCLOHEXANE	10.12	84	131000	4.438	PPBv	94
35) 1,2-DICHLOROPROPANE	10.66	63	129306	4.531	PPBv	99
36) BROMODICHLOROMETHANE	10.84	83	252703	4.611	PPBv	95
37) TRICHLOROETHENE	10.90	95	133205	4.516	PPBv	91
38) 1,4-DIOXANE	10.90	88	69589	4.474	PPBv	88
39) METHYLMETHACRYLATE	11.11	69	119686	4.614	PPBv	94
40) HEPTANE	11.23	57	99165	4.437	PPBv	84
41) MIBK	11.85	43	298157	4.081	PPBv	89
42) CIS-1,3DICHLOROPROPENE	11.80	75	194500	4.673	PPBv	99
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	187741	4.775	PPBv	98
45) 1,1,2-TRICHLOROETHANE	12.57	97	125134	4.500	PPBv	88

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

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D

Vial: 2

Acq On : 21 Nov 2010 7:52 pm

Operator: TPH

Sample : 5.0PPBv CCV

Inst : SYSB

Misc : CTWS-2552

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: Nov 21 23:40 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Mon Jul 12 16:49:22 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.90	91	311412	4.309	PPBv	100
47) 2-HEXANONE (MBK)	13.18	43	280505	3.832	PPBv	90
48) DIBROMOCHLOROMETHANE	13.35	129	240541	4.307	PPBv	98
49) 1,2-DIBROMOETHANE	13.64	107	211998	4.308	PPBv	100
50) TETRACHLOROETHENE	14.20	166	142780	4.207	PPBv	96
51) CHLOROBENZENE	15.00	112	242028	4.271	PPBv	93
52) ETHYLBENZENE	15.48	91	405884	4.327	PPBv	99
53) M/P-XYLENE	15.71	91	670326	8.765	PPBv	94
54) BROMOFORM	15.77	173	200115	4.111	PPBv	99
55) STYRENE	16.16	104	227432	4.512	PPBv	95
56) O-XYLENE	16.30	91	311425	4.304	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	333823	4.768	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	401739	4.527	PPBv	97
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	314545	4.379	PPBv	96
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	316823	4.527	PPBv	95
62) 1,3-DICHLOROBENZENE	18.97	146	237933	4.494	PPBv	98
63) BENZYL CHLORIDE	18.95	91	343785	4.864	PPBv	98
64) 1,4-DICHLOROBENZENE	19.08	146	238332	4.451	PPBv	97
65) 1,2-DICHLOROBENZENE	19.63	146	220247	4.503	PPBv	95
66) 1,2,4-TRICHLOROBENZENE	22.43	180	148769	4.402	PPBv	98
67) NAPHTHALENE	22.57	128	382898	4.072	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	126490	4.330	PPBv	95

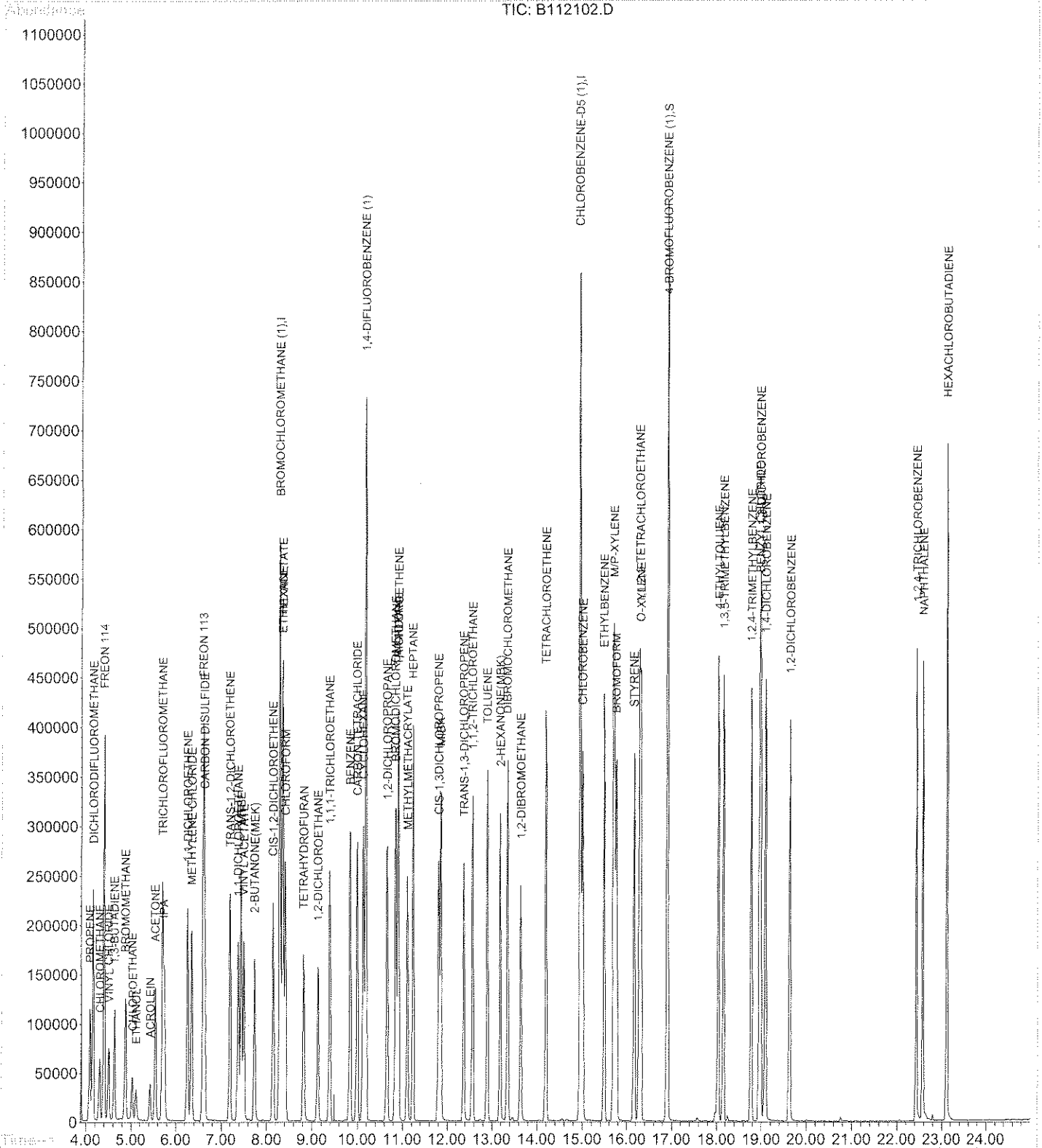
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D
Acq On : 21 Nov 2010 7:52 pm
Sample : 5.0PPbv CCV
Misc : CTWS-2552
MS Integration Params: 11095INT.P
Quant Time: Nov 21 23:40 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B112110\B112102.D

Vial: 2

Acq On : 21 Nov 2010 7:52 pm

Operator: TPH

Sample : 5.0PPBv CCV

Inst : SYSB

Misc : CTWS-2552

Multiplr: 1.00

MS Integration Params: 11095INT.P

Quant Time: Nov 21 23:40 2010

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15

Last Update : Mon Jul 12 16:49:22 2010

Response via : Initial Calibration

DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	353966	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	642719	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	603670	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	308922	7.63	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	95.38%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) PROPENE	4.08	41	86893	4.309	PPBv	97
3) DICHLORODIFLUOROMETHANE	4.16	85	269452	4.260	PPBv	99
4) CHLOROMETHANE	4.30	50	89129	3.718	PPBv	98
5) FREON 114	4.40	85	295829	3.966	PPBv	85
6) VINYL CHLORIDE	4.50	62	99191	3.893	PPBv	96
7) 1,3-BUTADIENE	4.63	54	60391	3.758	PPBv	97
8) BROMOMETHANE	4.87	94	104752	3.466	PPBv	96
9) CHLOROETHANE	5.02	64	48230	3.923	PPBv	94
10) ACROLEIN	5.42	56	43473	4.976	PPBv	93
11) ACETONE	5.54	43	208340	5.684	PPBv	83
12) TRICHLOROFLUOROMETHANE	5.70	101	220787	3.995	PPBv	98
13) ETHANOL	5.11	45	40759	5.059	PPBv	99
14) 1,1-DICHLOROETHENE	6.25	61	179755	4.277	PPBv	94
15) METHYLENE CHLORIDE	6.35	49	145452	3.935	PPBv	94
16) FREON 113	6.60	101	198642	4.299	PPBv	91
17) CARBON DISULFIDE	6.63	76	362492	4.582	PPBv	98
18) TRANS-1,2-DICHLOROETHENE	7.19	61	168919	4.399	PPBv #	86
19) 1,1-DICHLOROETHANE	7.37	63	212189	4.452	PPBv	98
20) MTBE	7.44	73	289441	4.361	PPBv	93
21) IPA	5.74	45	218885	6.138	PPBv	92
22) 2-BUTANONE (MEK)	7.73	43	258610	3.782	PPBv	89
23) CIS-1,2-DICHLOROETHENE	8.14	61	159556	4.377	PPBv	99
24) VINYL ACETATE	7.50	43	339019	3.841	PPBv	94
25) HEXANE	8.35	41	128363	4.108	PPBv	95
26) ETHYL ACETATE	8.34	61	40607	4.861	PPBv	96
27) CHLOROFORM	8.41	83	230921	4.402	PPBv	99
28) TETRAHYDROFURAN	8.81	71	54044	4.767	PPBv	97
29) 1,2-DICHLOROETHANE	9.12	62	143561	4.159	PPBv	98
31) 1,1,1-TRICHLOROETHANE	9.38	97	183853	4.322	PPBv	99
32) BENZENE	9.83	78	314515	4.441	PPBv	99
33) CARBON TETRACHLORIDE	9.99	117	182981	4.289	PPBv	99
34) CYCLOHEXANE	10.12	84	131000	4.438	PPBv	94
35) 1,2-DICHLOROPROPANE	10.66	63	129306	4.531	PPBv	99
36) BROMODICHLOROMETHANE	10.84	83	252703	4.611	PPBv	95
37) TRICHLOROETHENE	10.90	95	133205	4.516	PPBv	91
38) 1,4-DIOXANE	10.90	88	69589	4.474	PPBv	88
39) METHYLMETHACRYLATE	11.11	69	119686	4.614	PPBv	94
40) HEPTANE	11.23	57	99165	4.437	PPBv	84
41) MIBK	11.85	43	298157	4.081	PPBv	89
42) CIS-1,3DICHLOROPROPENE	11.80	75	194500	4.673	PPBv	99
43) TRANS-1,3-DICHLOROPROPENE	12.37	75	187741	4.775	PPBv	98
45) 1,1,2-TRICHLOROETHANE	12.57	97	125134	4.500	PPBv	88

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

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D Vial: 2
 Acq On : 21 Nov 2010 7:52 pm Operator: TPH
 Sample : 5.0PPBv CCV Inst : SYSB
 Misc : CTWS-2552 Multiplr: 1.00
 MS Integration Params: 11095INT.P
 Quant Time: Nov 21 23:40 2010 Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) TOLUENE	12.90	91	311412	4.309	PPBv	100
47) 2-HEXANONE (MBK)	13.18	43	280505	3.832	PPBv	90
48) DIBROMOCHLOROMETHANE	13.35	129	240541	4.307	PPBv	98
49) 1,2-DIBROMOETHANE	13.64	107	211998	4.308	PPBv	100
50) TETRACHLOROETHENE	14.20	166	142780	4.207	PPBv	96
51) CHLOROBENZENE	15.00	112	242028	4.271	PPBv	93
52) ETHYLBENZENE	15.48	91	405884	4.327	PPBv	99
53) M/P-XYLENE	15.71	91	670326	8.765	PPBv	94
54) BROMOFORM	15.77	173	200115	4.111	PPBv	99
55) STYRENE	16.16	104	227432	4.512	PPBv	95
56) O-XYLENE	16.30	91	311425	4.304	PPBv	100
57) 1,1,2,2-TETRACHLOROETHANE	16.27	83	333823	4.768	PPBv	98
59) 4-ETHYLTOLUENE	18.03	105	401739	4.527	PPBv	97
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	314545	4.379	PPBv	96
61) 1,2,4-TRIMETHYLBENZENE	18.76	105	316823	4.527	PPBv	95
62) 1,3-DICHLOROBENZENE	18.97	146	237933	4.494	PPBv	98
63) BENZYL CHLORIDE	18.95	91	343785	4.864	PPBv	98
64) 1,4-DICHLOROBENZENE	19.08	146	238332	4.451	PPBv	97
65) 1,2-DICHLOROBENZENE	19.63	146	220247	4.503	PPBv	95
66) 1,2,4-TRICHLOROBENZENE	22.43	180	148769	4.402	PPBv	98
67) NAPHTHALENE	22.57	128	382898	4.072	PPBv	100
68) HEXACHLOROBUTADIENE	23.11	225	126490	4.330	PPBv	95

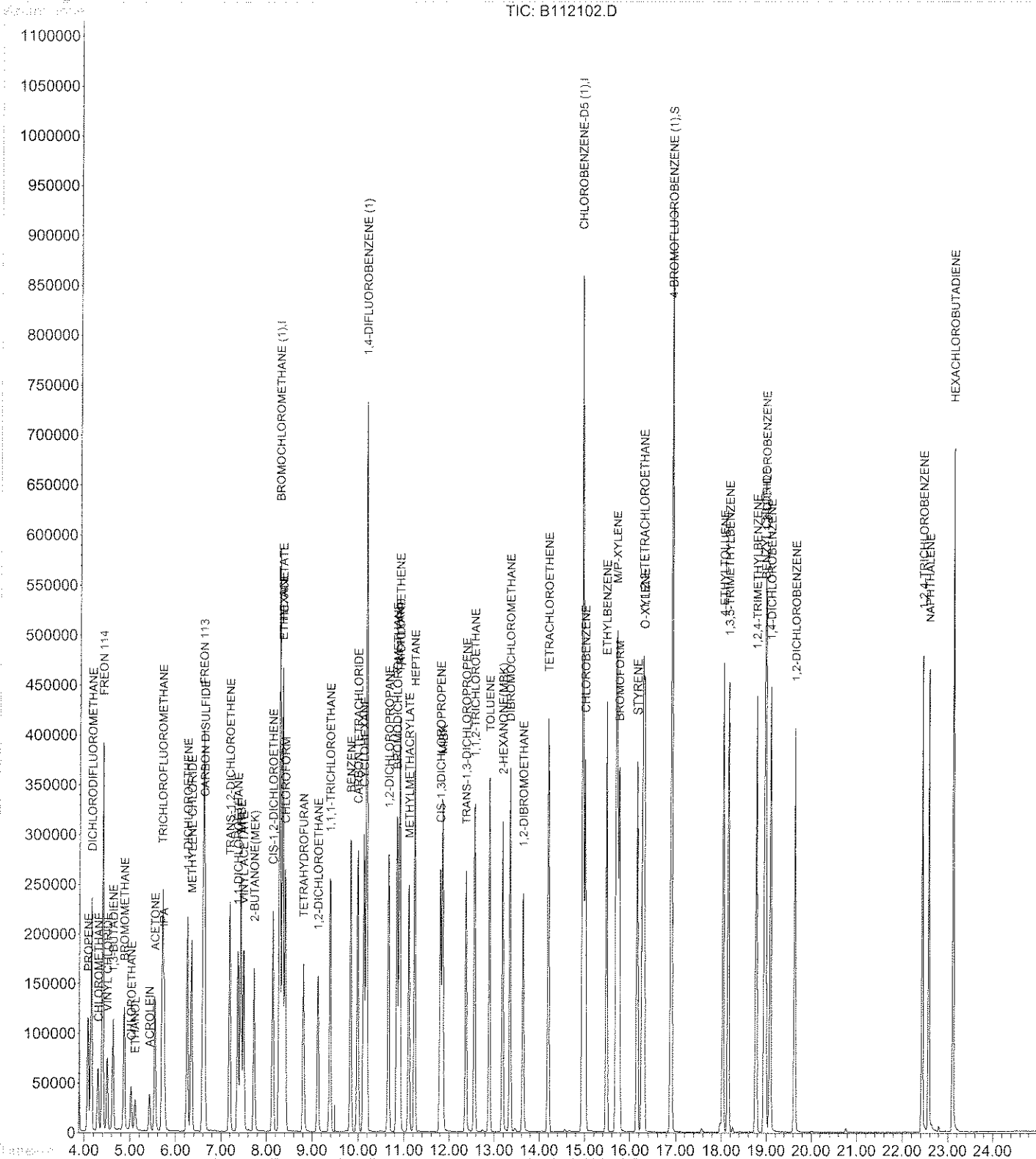
(#) = qualifier out of range (m) = manual integration

Data File : D:\HPCHEM\1\DATA\B112110\B112102.D
Acq On : 21 Nov 2010 7:52 pm
Sample : 5.0PPBV CCV
Misc : CTWS-2552
MS Integration Params: 11095INT.P
Quant Time: Nov 21 23:40 2010

Vial: 2
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration



Data File : D:\HPCHEM\1\DATA\B112110\B112103.D
 Acq On : 21 Nov 2010 8:32 pm
 Sample : 5.0PPbv LCS
 Misc : CTWS-2553
 MS Integration Params: 11095INT.P

Vial: 3
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I BROMOCHLOROMETHANE (1)	8.000	8.000	0.0	141	0.00
2 PROPENE	5.000	4.717	5.7	151	0.02
3 DICHLORODIFLUOROMETHANE	5.000	4.438	11.2	134	0.01
4 CHLOROMETHANE	5.000	3.847	23.1	131	0.02
5 FREON 114	5.000	3.698	26.0	115	0.02
6 VINYL CHLORIDE	5.000	4.014	19.7	132	0.02
7 1,3-BUTADIENE	5.000	3.899	22.0	129	0.01
8 BROMOMETHANE	5.000	3.580	28.4	123	0.02
9 CHLOROETHANE	5.000	4.119	17.6	135	0.01
10 ACROLEIN	5.000	4.714	5.7	174	0.02
11 ACETONE	5.000	6.068	-21.4	211	0.01
12 TRICHLOROFLUOROMETHANE	5.000	4.132	17.4	129	0.02
13 ETHANOL	5.000	2.777	45% 44.5#	93	0.02
14 1,1-DICHLOROETHENE	5.000	4.682	6.4	147	0.02
15 METHYLENE CHLORIDE	5.000	4.267	14.7	144	0.01
16 FREON 113	5.000	4.747	5.1	151	0.01
17 CARBON DISULFIDE	5.000	4.845	3.1	152	0.02
18 TRANS-1,2-DICHLOROETHENE	5.000	4.823	3.5	147	0.01
19 1,1-DICHLOROETHANE	5.000	4.762	4.8	149	0.01
20 MTBE	5.000	4.513	9.7	141	0.00
21 IPA	5.000	3.755	24.9	119	0.01
22 2-BUTANONE (MEK)	5.000	3.750	25.0	124	0.00
23 CIS-1,2-DICHLOROETHENE	5.000	4.638	7.2	143	0.01
24 VINYL ACETATE	5.000	3.539	29.2	115	0.00
25 HEXANE	5.000	4.332	13.4	135	0.01
26 ETHYL ACETATE	5.000	4.951	1.0	139	0.00
27 CHLOROFORM	5.000	4.700	6.0	147	0.00
28 TETRAHYDROFURAN	5.000	4.551	9.0	133	0.01
29 1,2-DICHLOROETHANE	5.000	4.335	13.3	132	0.01
30 1,4-DIFLUOROBENZENE (1)	8.000	8.000	0.0	142	0.01
31 1,1,1-TRICHLOROETHANE	5.000	4.509	9.8	141	0.00
32 BENZENE	5.000	4.638	7.2	151	0.00
33 CARBON TETRACHLORIDE	5.000	4.548	9.0	140	0.01
34 CYCLOHEXANE	5.000	4.597	8.1	150	0.01
35 1,2-DICHLOROPROPANE	5.000	4.682	6.4	146	0.00
36 BROMODICHLOROMETHANE	5.000	4.689	6.2	141	0.00
37 TRICHLOROETHENE	5.000	4.688	6.2	144	0.00
38 1,4-DIOXANE	5.000	3.465	30.7#	102	0.00
39 METHYLMETHACRYLATE	5.000	4.389	12.2	129	0.00
40 HEPTANE	5.000	4.620	7.6	145	0.01
41 MIBK	5.000	3.363	32.7#	100	0.00
42 CIS-1,3DICHLOROPROPENE	5.000	5.169	-3.4	156	0.00
43 TRANS-1,3-DICHLOROPROPENE	5.000	4.526	9.5	131	0.00
44 I CHLOROENZENE-D5 (1)	8.000	8.000	0.0	145	0.00
45 1,1,2-TRICHLOROETHANE	5.000	4.760	4.8	149	0.00
46 TOLUENE	5.000	4.471	10.6	146	0.00
47 2-HEXANONE (MBK)	5.000	2.722	45% 45.6#	85	0.00
48 DIBROMOCHLOROMETHANE	5.000	4.353	12.9	134	0.00

(#) = Out of Range

Data File : D:\HPCHEM\1\DATA\B112110\B112103.D Vial: 3
 Acq On : 21 Nov 2010 8:32 pm Operator: TPH
 Sample : 5.0PPBv LCS Inst : SYSB
 Misc : CTWS-2553 Multiplr: 1.00
 MS Integration Params: 11095INT.P

Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	1,2-DIBROMOETHANE	5.000	4.448	11.0	137	0.00
50	TETRACHLOROETHENE	5.000	4.323	13.5	135	0.00
51	CHLOROBENZENE	5.000	4.411	11.8	139	0.00
52	ETHYLBENZENE	5.000	4.380	12.4	139	0.00
53	M/P-XYLENE	10.000	9.006	9.9	139	0.02
54	BROMOFORM	5.000	4.115	17.7	121	0.00
55	STYRENE	5.000	4.521	9.6	135	0.00
56	O-XYLENE	5.000	4.482	10.4	140	0.00
57	1,1,2,2-TETRACHLOROETHANE	5.000	4.582	8.4	138	0.00
58 S	4-BROMOFLUOROBENZENE (1)	8.000	7.586	5.2	135	0.00
59	4-ETHYLTOLUENE	5.000	4.309	13.8	127	0.00
60	1,3,5-TRIMETHYLBENZENE	5.000	4.276	14.5	131	0.00
61	1,2,4-TRIMETHYLBENZENE	5.000	4.422	11.6	132	0.00
62	1,3-DICHLOROBENZENE	5.000	4.429	11.4	133	0.00
63	BENZYL CHLORIDE	5.000	4.310	13.8	122	0.00
64	1,4-DICHLOROBENZENE	5.000	4.436	11.3	135	0.00
65	1,2-DICHLOROBENZENE	5.000	4.361	12.8	134	0.00
66	1,2,4-TRICHLOROBENZENE	5.000	3.953	20.9	125	0.00
67	NAPHTHALENE	5.000	2.911	41.8#	102	0.00
68	HEXACHLOROBUTADIENE	5.000	3.973	20.5	125	0.00

Data File : D:\HPCHEM\1\DATA\B112110\B112107.D Vial: 21
 Acq On : 21 Nov 2010 11:18 pm Operator: TPH
 Sample : MBL 0.5X Inst : SYSB
 Misc : 1,1,400,800,0.5X Multiplr: 1.00
 MS Integration Params: 11095INT.P
 Quant Time: Nov 22 9:16 2010 Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	335660	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	579469	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	548314	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	269375	7.33	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	91.63%

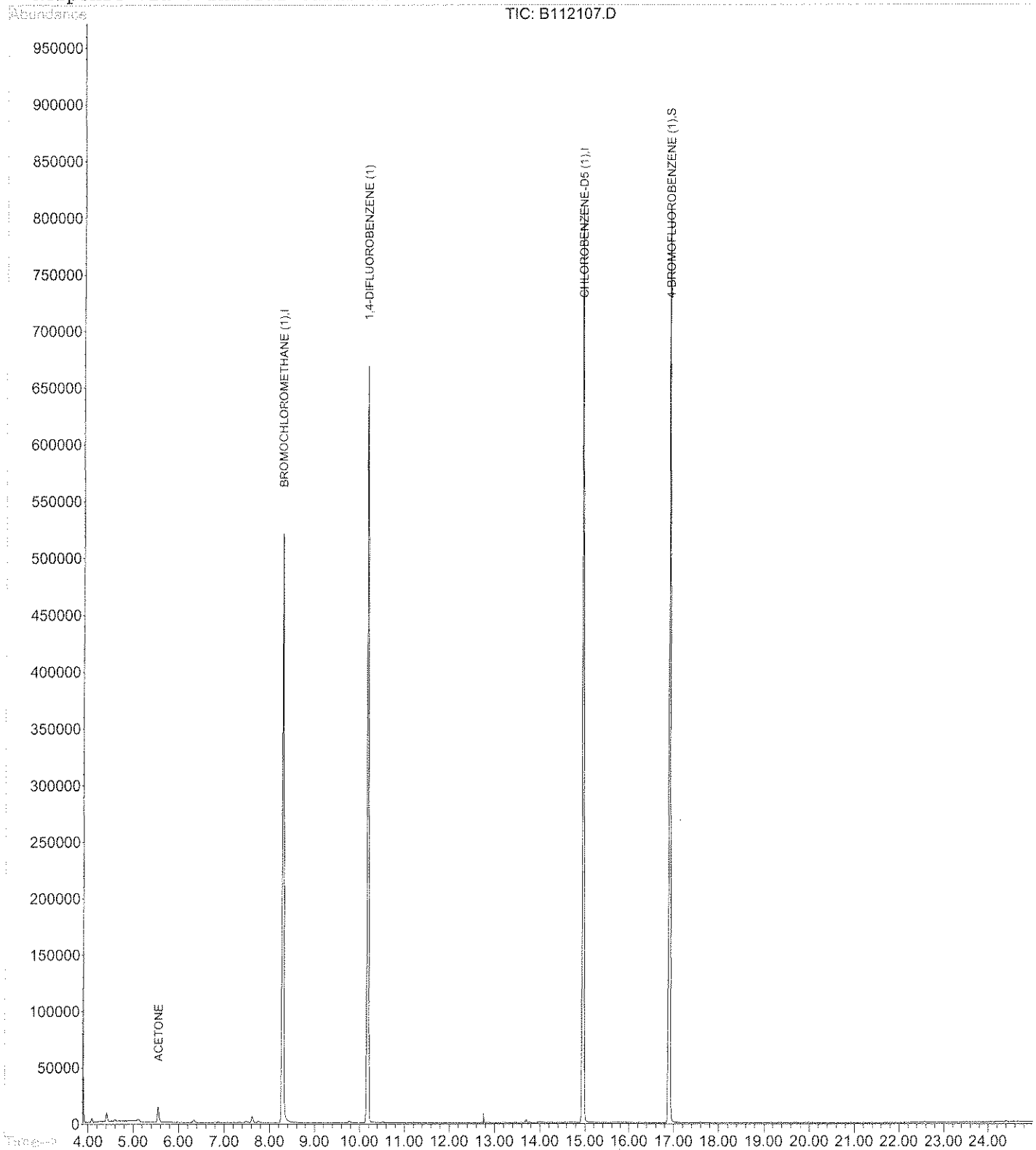
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) ACETONE	5.55	43	22141	0.637	PPBv	71

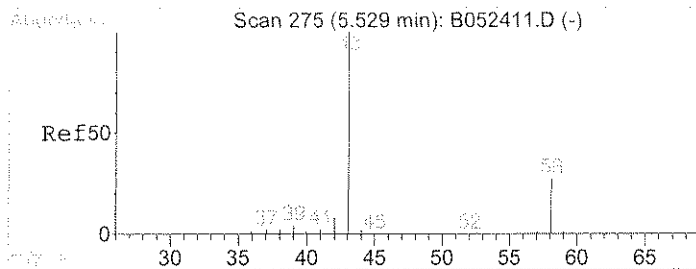
Data File : D:\HPCHEM\1\DATA\B112110\B112107.D
Acq On : 21 Nov 2010 11:18 pm
Sample : MBL 0.5X
Misc : 1,1,400,800,0.5X
MS Integration Params: 11095INT.P
Quant Time: Nov 22 9:16 2010

Vial: 21
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

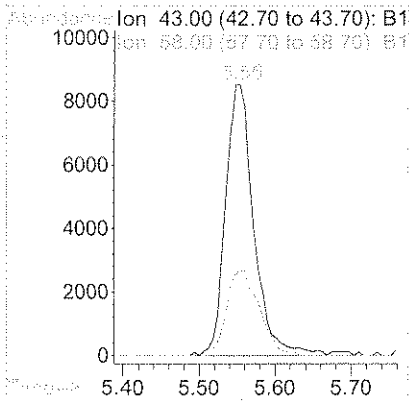
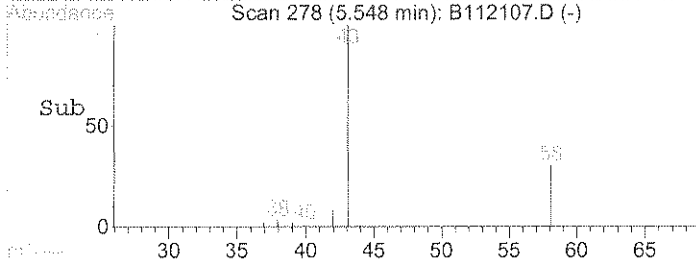
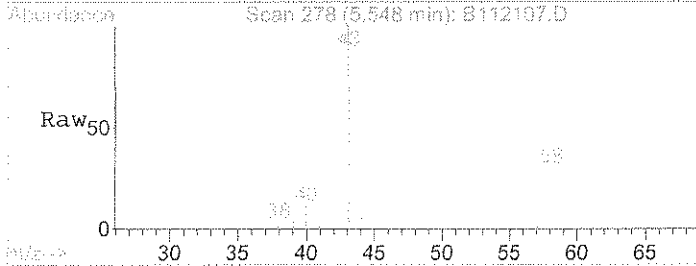
Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration





#11
ACETONE
Concen: 0.64 PPBv
RT: 5.55 min Scan# 278
Delta R.T. 0.02 min
Lab File: B112107.D
Acq: 21 Nov 2010 11:18 pm

Tgt Ion	Resp	Lower	Upper
43	100		
58	35.7	2.1	42.1



Data File : D:\HPCHEM\1\DATA\B112110\B112109.D
 Acq On : 22 Nov 2010 1:09 am
 Sample : 10K0616-04 0.7X
 Misc : 1.5,1,400,855,0.7X
 MS Integration Params: 11095INT.P
 Quant Time: Nov 22 10:37 2010

Vial: 23
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

CHECKED BY: WILLIAM DONATI NOV 23 2010

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	332541	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	565538	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.95	117	529622	8.00	PPBv	0.00

System Monitoring Compounds
 58) 4-BROMOFLUOROBENZENE (1) 16.90 174 261060 7.35 PPBv 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 91.88%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) DICHLORODIFLUOROMETHANE	4.15	85	22540	0.379	PPBv	98
4) CHLOROMETHANE	4.30	50	15853	0.704	PPBv	97
10) ACROLEIN	5.43	56	5592	0.681	PPBv	94
11) ACETONE	5.54	43	463860	13.471	PPBv	94
12) TRICHLOROFLUOROMETHANE	5.70	101	13931	0.268	PPBv	99
13) ETHANOL	5.12	45	186863	24.688	PPBv	96
15) METHYLENE CHLORIDE	6.35	49	20335	0.586	PPBv	97
16) FREON 113	6.60	101	4323	0.100	PPBv	88
21) IPA	5.75	45	30357	0.906	PPBv	97
22) 2-BUTANONE (MEK)	7.73	43	38157	0.594	PPBv	91
25) HEXANE	8.36	41	17385	0.592	PPBv	95
32) BENZENE	9.84	78	22273	0.357	PPBv	97
34) CYCLOHEXANE	10.12	84	3706	0.143	PPBv #	77
37) TRICHLOROETHENE	10.91	95	6038	0.233	PPBv	94
40) HEPTANE	11.24	57	1188	0.060	PPBv	93
46) TOLUENE	12.89	91	11818	0.186	PPBv	100

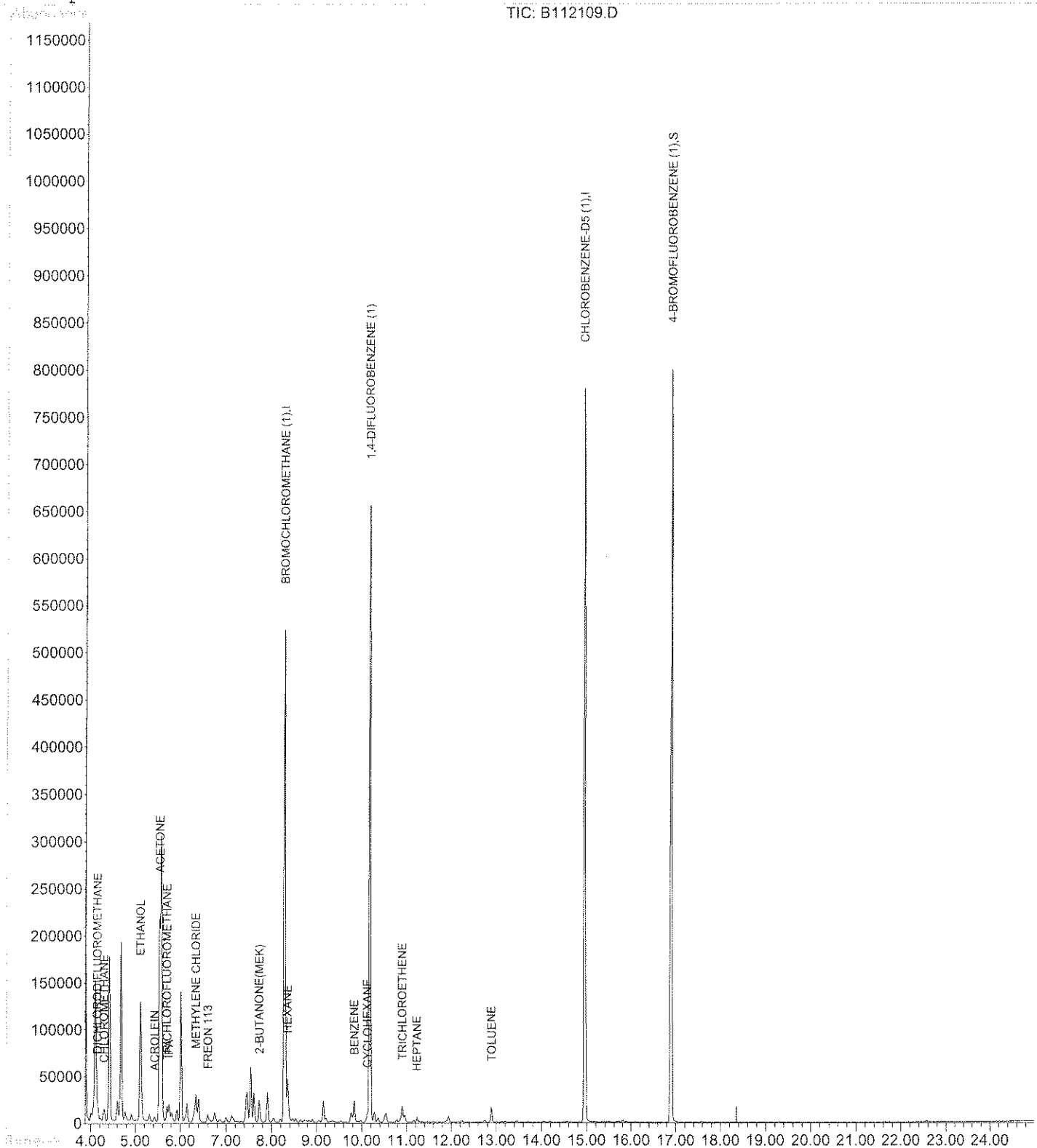
Select List

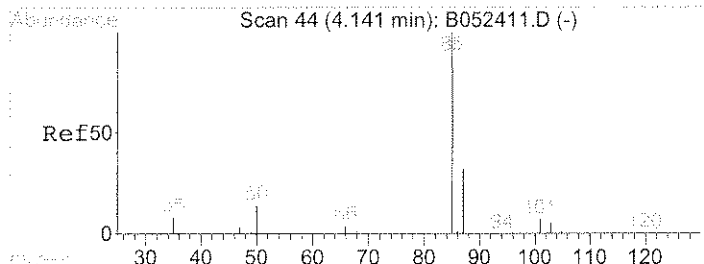
Data File : D:\HPCHEM\1\DATA\B112110\B112109.D
Acq On : 22 Nov 2010 1:09 am
Sample : 10K0616-04 0.7X
Misc : 1.5,1,400,855,0.7X
MS Integration Params: 11095INT.P
Quant Time: Nov 22 10:37 2010

Vial: 23
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

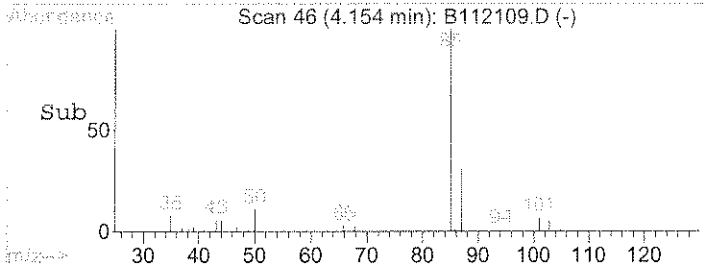
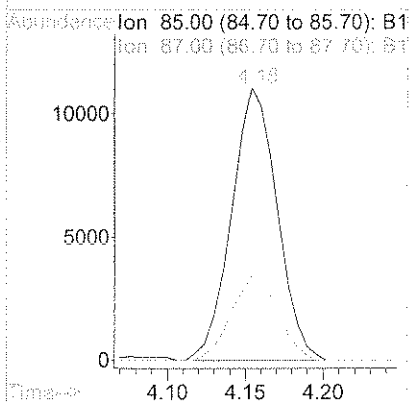
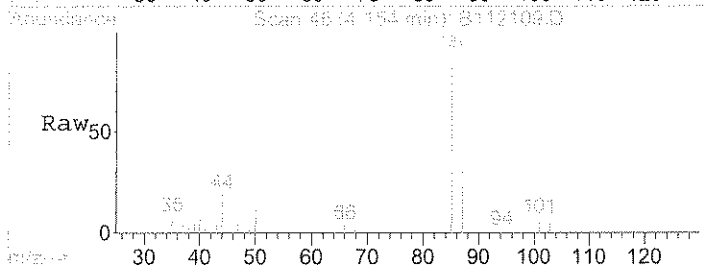
Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration





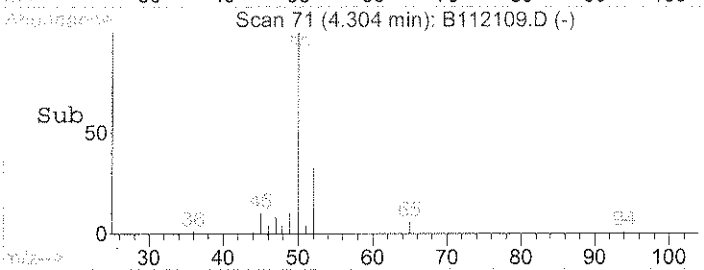
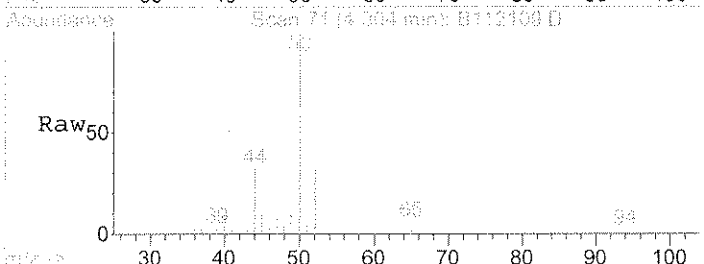
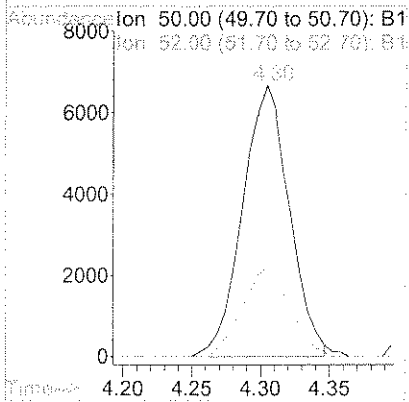
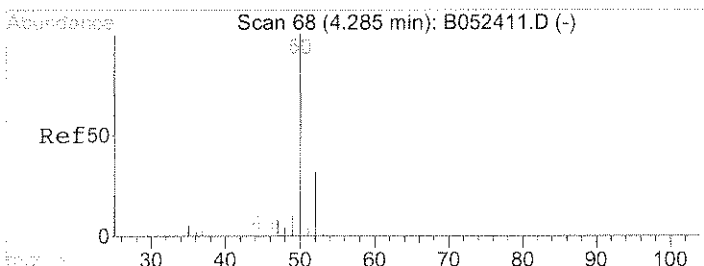
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.38 PPBv
 RT: 4.15 min Scan# 46
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

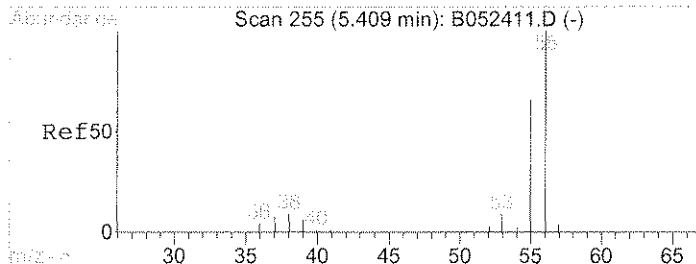
Tgt Ion: 85 Resp: 22540
 Ion Ratio Lower Upper
 85 100
 87 31.4 12.3 52.3



#4
 CHLOROMETHANE
 Concen: 0.70 PPBv
 RT: 4.30 min Scan# 71
 Delta R.T. 0.02 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

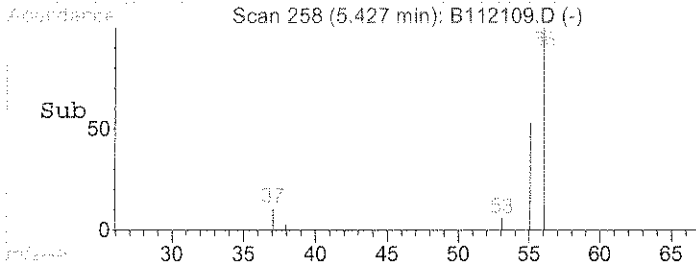
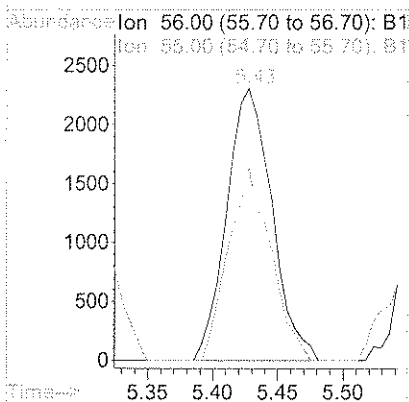
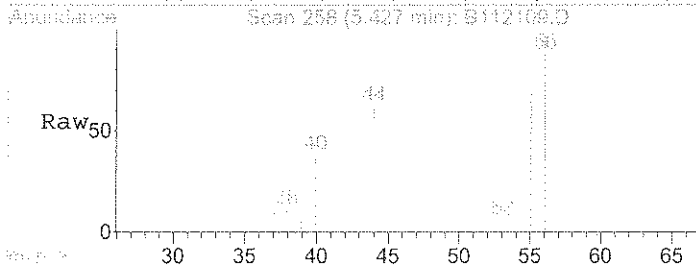
Tgt Ion: 50 Resp: 15853
 Ion Ratio Lower Upper
 50 100
 52 33.5 12.0 52.0





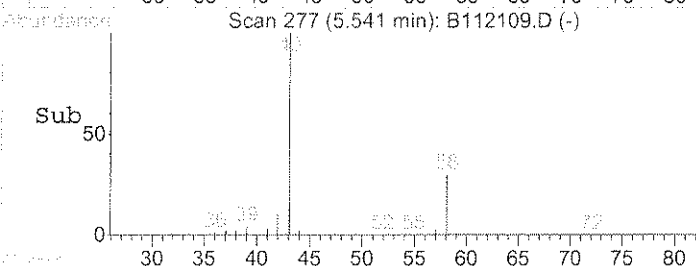
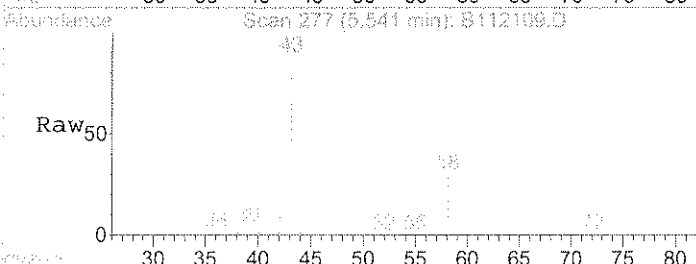
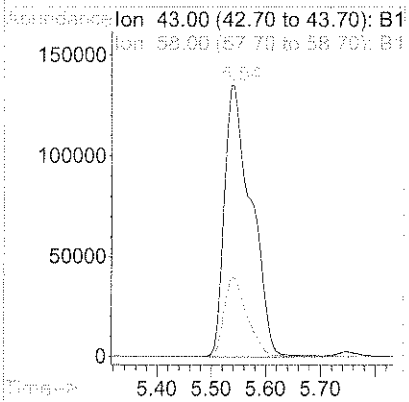
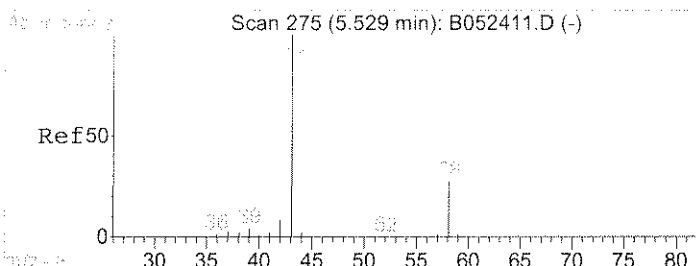
#10
 ACROLEIN
 Concen: 0.68 PPBv
 RT: 5.43 min Scan# 258
 Delta R.T. 0.02 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

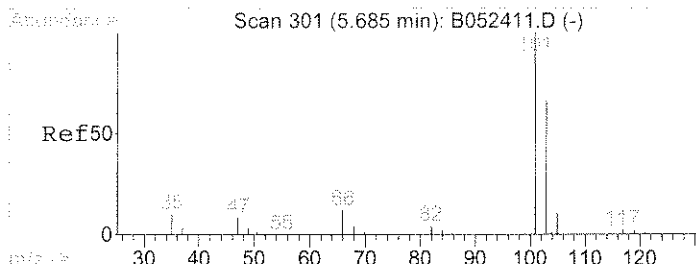
Tgt Ion	Resp	Lower	Upper
56	100		
55	66.1	51.2	91.2



#11
 ACETONE
 Concen: 13.47 PPBv
 RT: 5.54 min Scan# 277
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

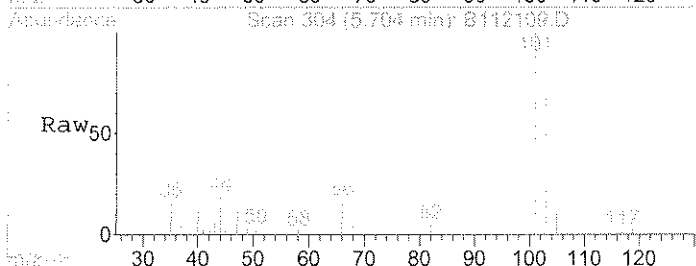
Tgt Ion	Resp	Lower	Upper
43	100		
58	25.0	2.1	42.1



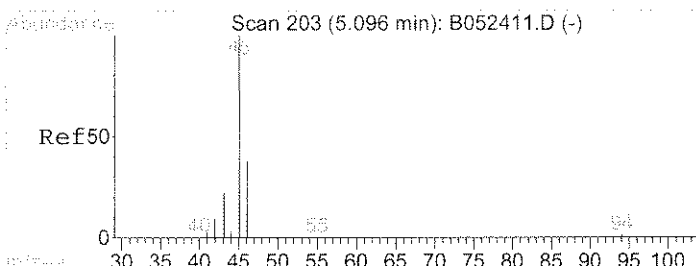
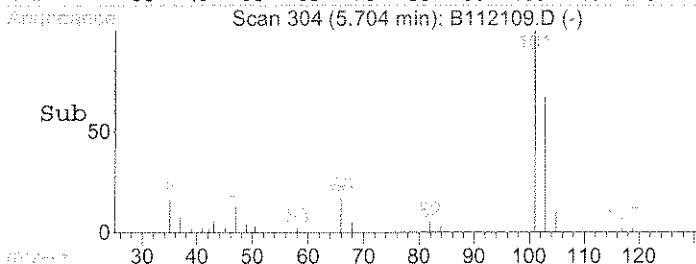
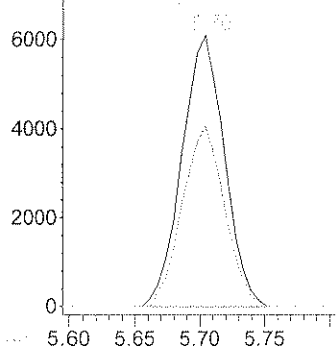


#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.27 PPBv
 RT: 5.70 min Scan# 304
 Delta R.T. 0.02 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion: 101 Resp: 13931
 Ion Ratio Lower Upper
 101 100
 103 65.8 46.8 86.8

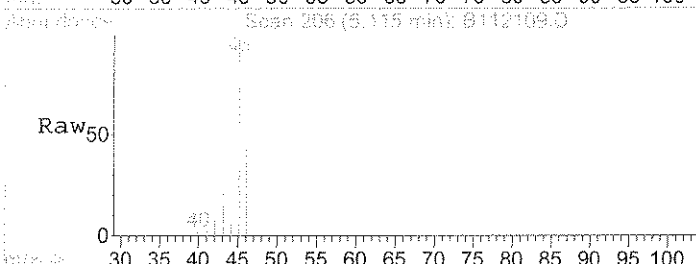


Abundance Ion 101.00 (100.70 to 101.70):
 Ion 103.00 (102.70 to 103.70):

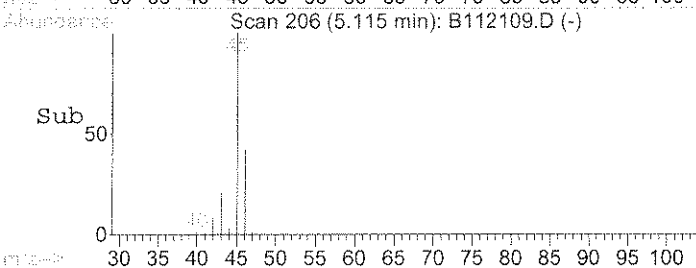
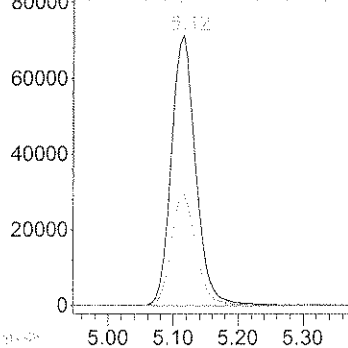


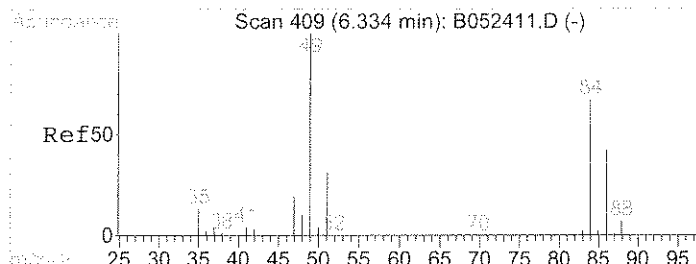
#13
 ETHANOL
 Concen: 24.69 PPBv
 RT: 5.12 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion: 45 Resp: 186863
 Ion Ratio Lower Upper
 45 100
 46 42.0 24.6 64.6



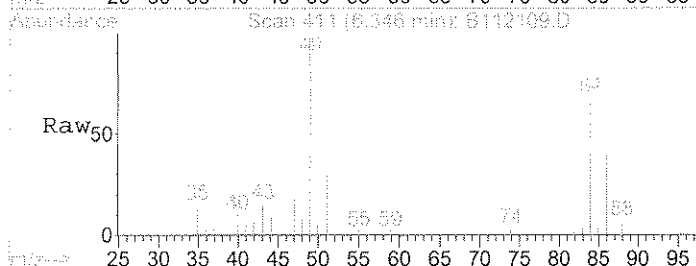
Abundance Ion 45.00 (44.70 to 45.70): B1
 Ion 46.00 (45.70 to 46.70): B1



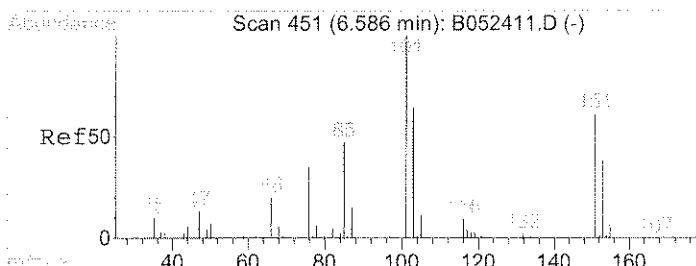
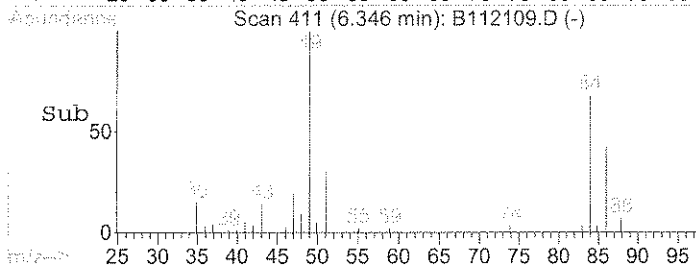
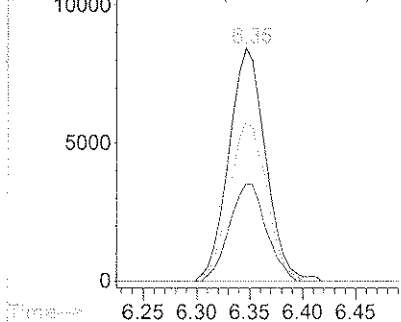


#15
 METHYLENE CHLORIDE
 Concen: 0.59 PPBv
 RT: 6.35 min Scan# 411
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion	Resp	Lower	Upper
49	100		
84	68.5	46.8	86.8
86	41.7	24.2	64.2

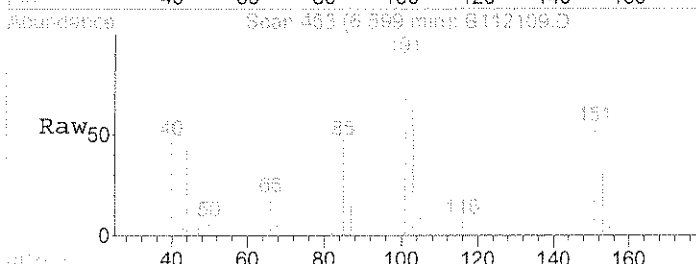


Abundance
 Ion 49.00 (48.70 to 49.70): B1
 Ion 84.00 (83.70 to 84.70): B1
 Ion 86.00 (85.70 to 86.70): B1

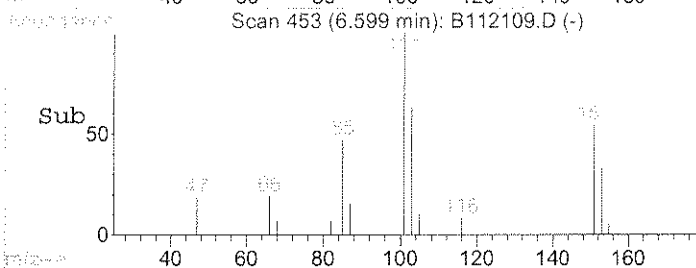
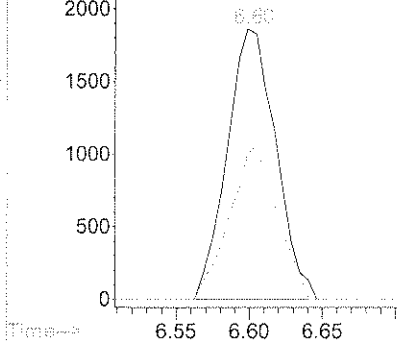


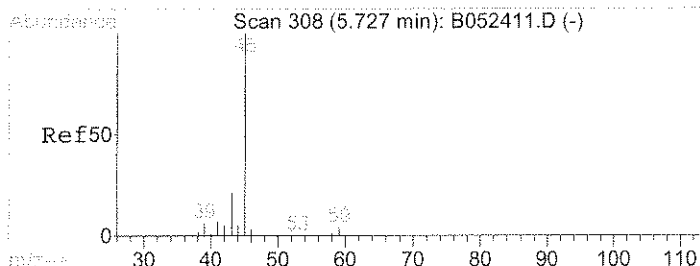
#16
 FREON 113
 Concen: 0.10 PPBv
 RT: 6.60 min Scan# 453
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion	Resp	Lower	Upper
101	100		
151	55.0	44.3	84.3



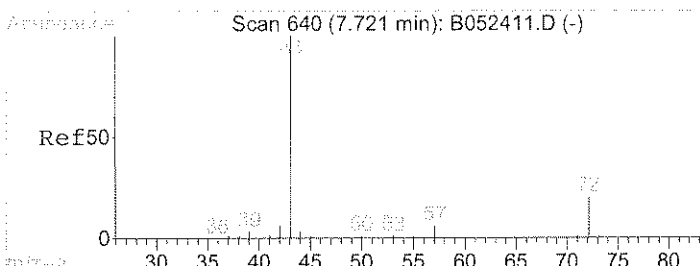
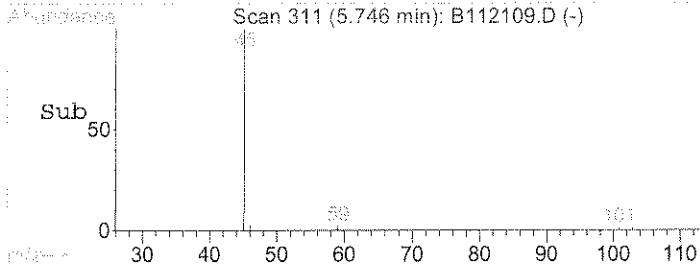
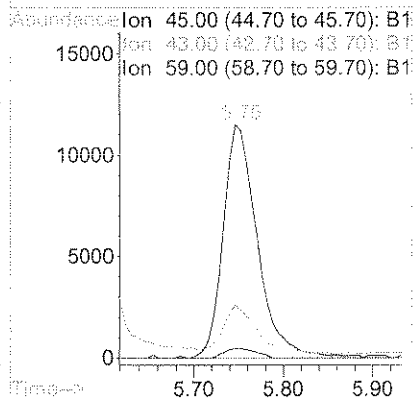
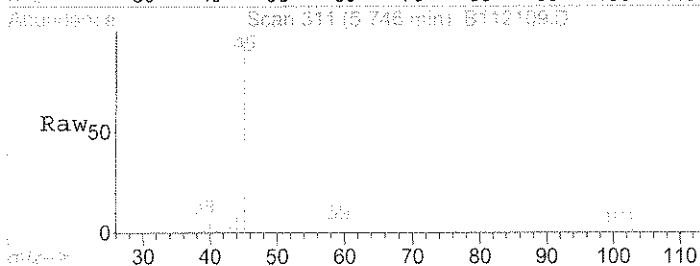
Abundance
 Ion 101.00 (100.70 to 101.70): B1
 Ion 151.00 (150.70 to 151.70): B1





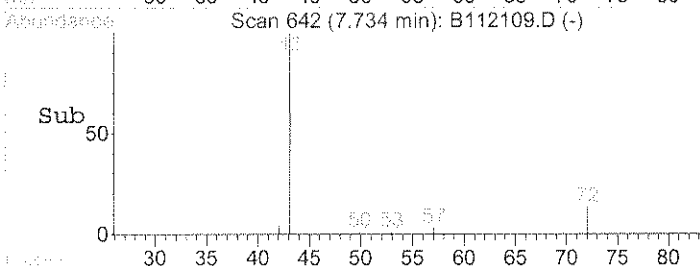
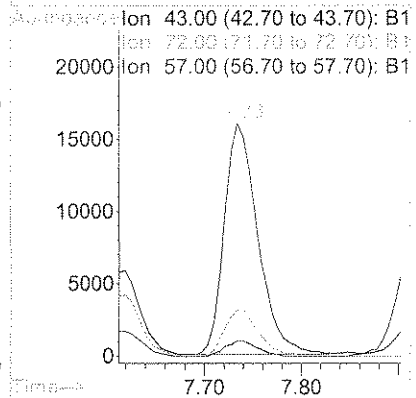
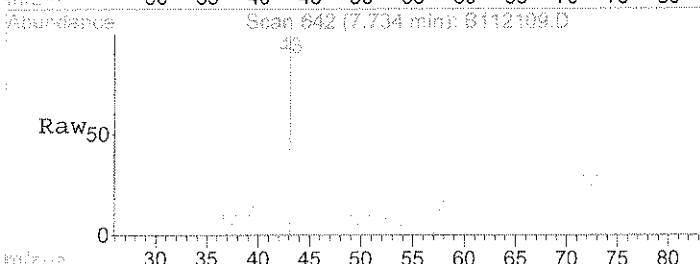
#21
 IPA
 Concen: 0.91 PPBv
 RT: 5.75 min Scan# 311
 Delta R.T. 0.02 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

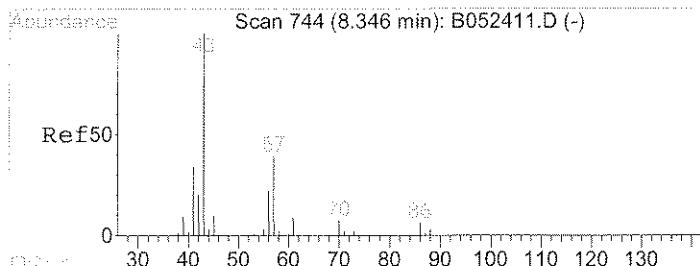
Tgt Ion	Resp	Lower	Upper
45	100		
43	20.7	2.5	42.5
59	3.7	0.0	23.4



#22
 2-BUTANONE (MEK)
 Concen: 0.59 PPBv
 RT: 7.73 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

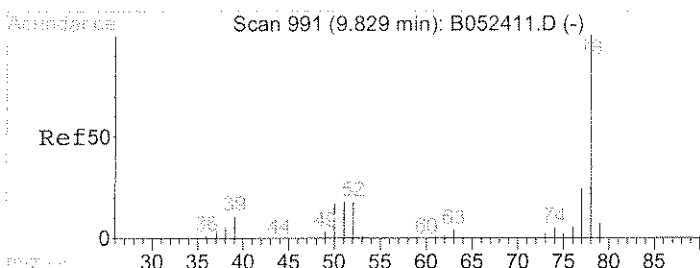
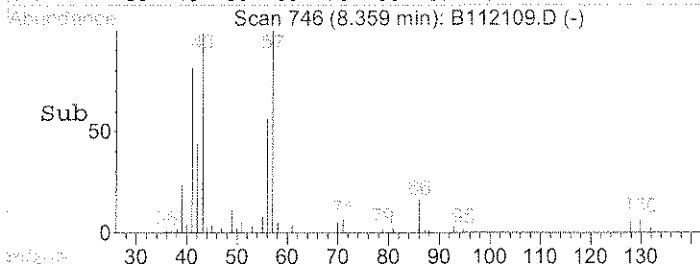
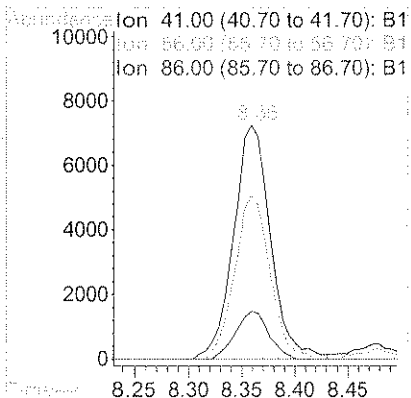
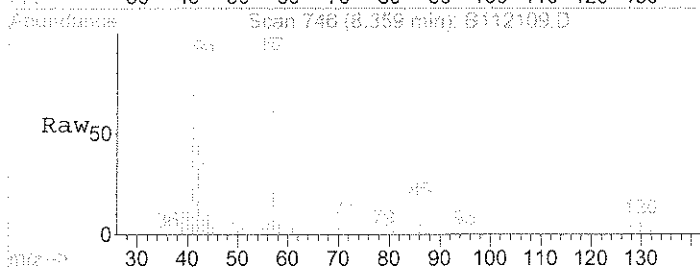
Tgt Ion	Resp	Lower	Upper
43	100		
72	20.4	0.0	35.7
57	6.5	0.0	25.8





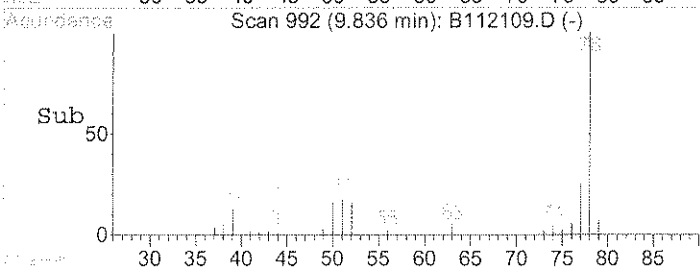
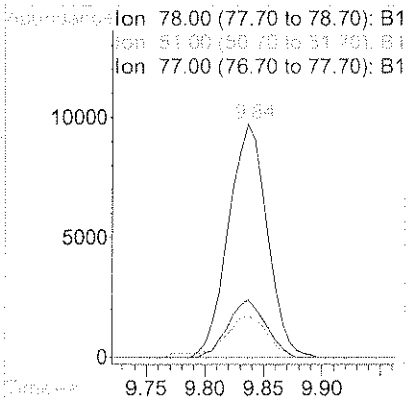
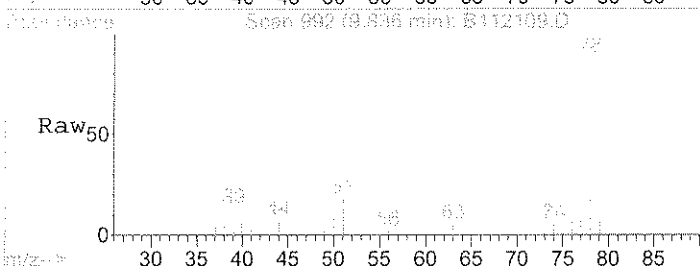
#25
 HEXANE
 Concen: 0.59 PPBv
 RT: 8.36 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

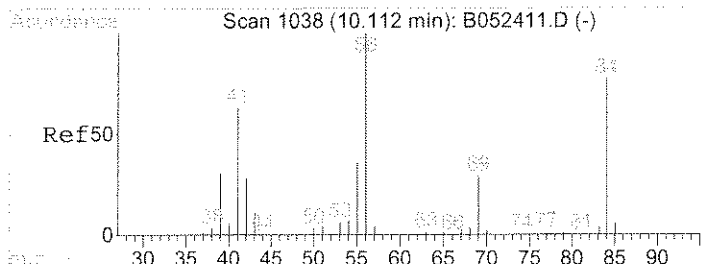
Tgt Ion	Resp	Lower	Upper
41	100		
56	65.9	50.0	90.0
86	18.2	0.0	36.6



#32
 BENZENE
 Concen: 0.36 PPBv
 RT: 9.84 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

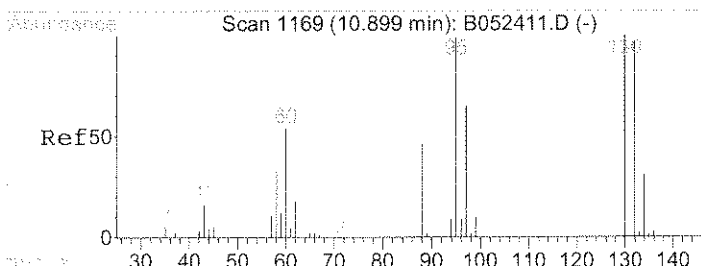
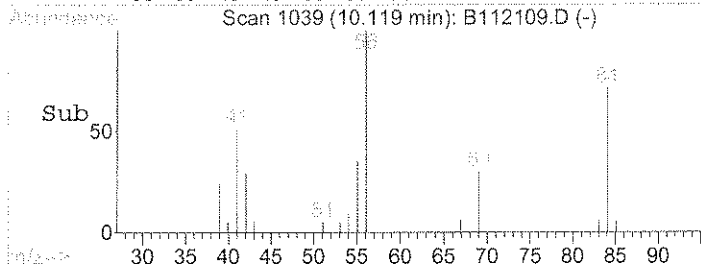
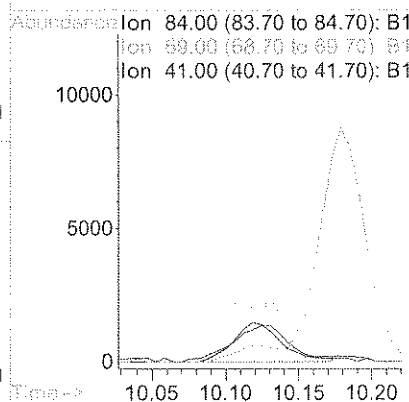
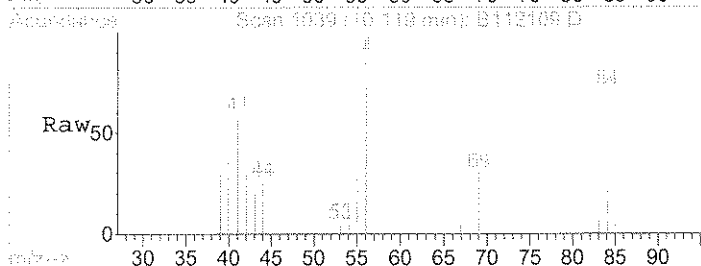
Tgt Ion	Resp	Lower	Upper
78	100		
51	19.0	0.0	36.4
77	24.0	4.7	44.7





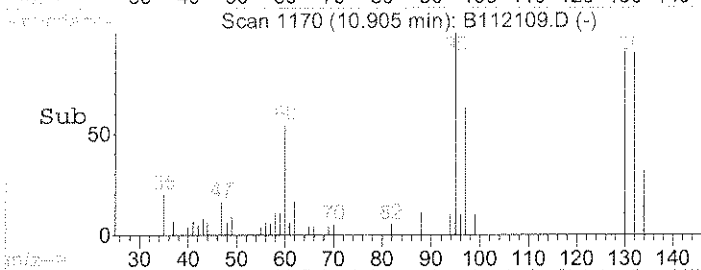
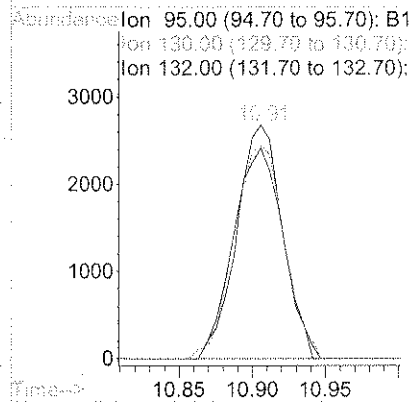
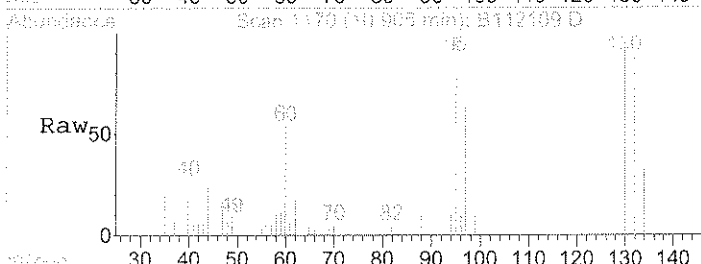
#34
 CYCLOHEXANE
 Concen: 0.14 PPBv
 RT: 10.12 min Scan# 1039
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

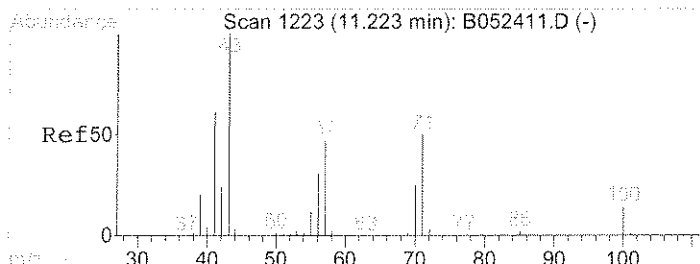
Tgt Ion	Resp	Lower	Upper
84	100		
69	32.4	17.3	57.3
41	93.1	48.0	88.0#



#37
 TRICHLOROETHENE
 Concen: 0.23 PPBv
 RT: 10.91 min Scan# 1170
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

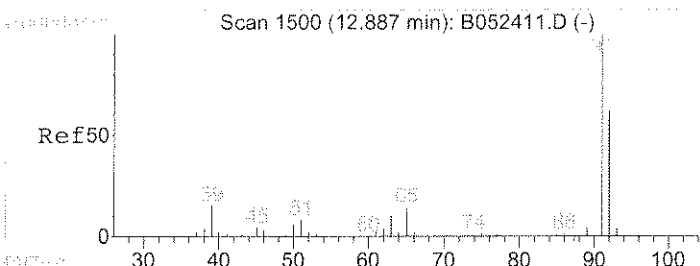
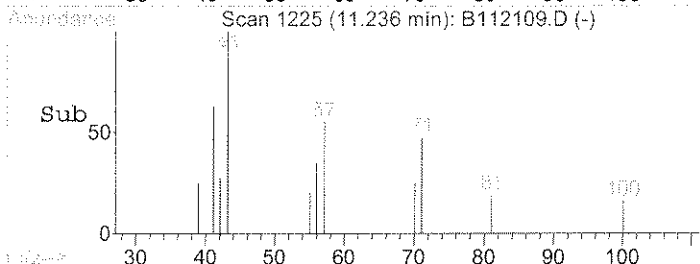
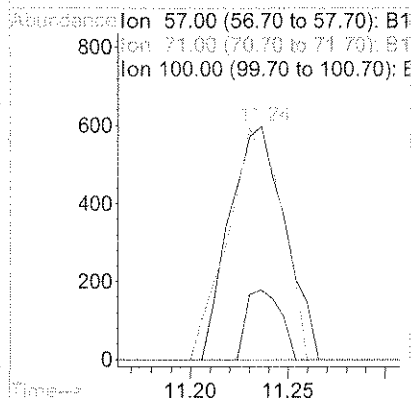
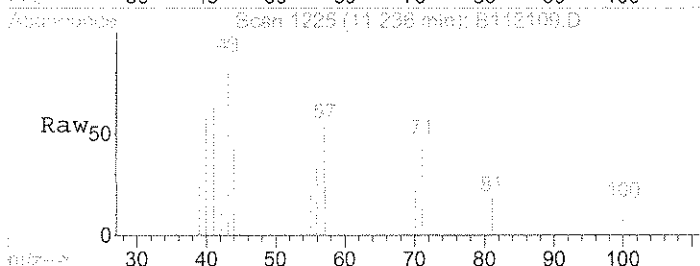
Tgt Ion	Resp	Lower	Upper
95	100		
130	95.4	65.4	105.4
132	91.2	70.0	110.0





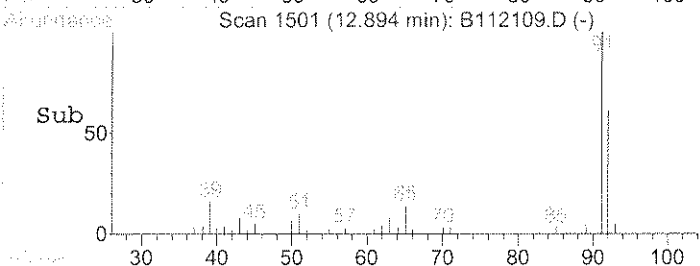
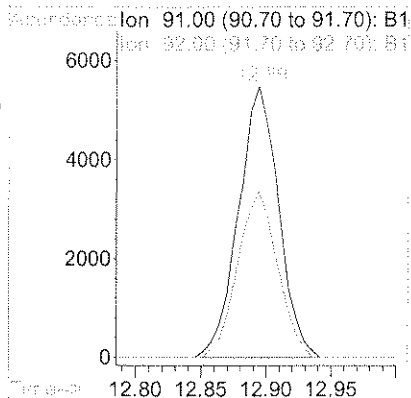
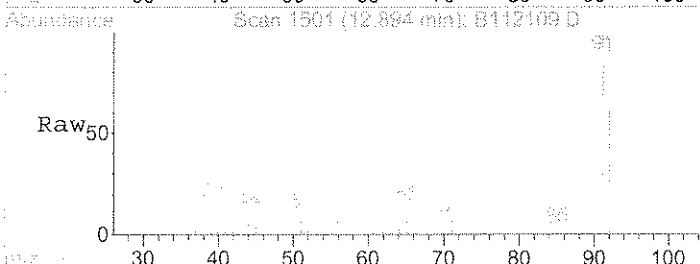
#40
 HEPTANE
 Concen: 0.06 PPBv
 RT: 11.24 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion	Resp	Lower	Upper
57	100		
71	96.3	71.5	111.5
100	18.6	6.2	46.2



#46
 TOLUENE
 Concen: 0.19 PPBv
 RT: 12.89 min Scan# 1501
 Delta R.T. 0.01 min
 Lab File: B112109.D
 Acq: 22 Nov 2010 1:09 am

Tgt Ion	Resp	Lower	Upper
91	100		
92	60.9	41.1	81.1



Data File : D:\HPCHEM\1\DATA\B112110\B112110.D
 Acq On : 22 Nov 2010 1:56 am
 Sample : 10K0616-03 0.7X
 Misc : 1.5,1,400,855,0.7X
 MS Integration Params: 11095INT.P
 Quant Time: Nov 23 15:20 2010

Vial: 24
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)

Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

CHECKED BY: *WILLIAM DONATI* NOV 23 2010

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	326454	8.00	PPBv	0.00
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	549796	8.00	PPBv	0.00
44) CHLOROBENZENE-D5 (1)	14.96	117	519902	8.00	PPBv	0.00

System Monitoring Compounds

58) 4-BROMOFLUOROBENZENE (1)	16.90	174	259449	7.44	PPBv	0.00
Spiked Amount	8.000	Range	70 - 130	Recovery	=	93.00%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) DICHLORODIFLUOROMETHANE	4.16	85	22292	0.382	PPBv	99
4) CHLOROMETHANE	4.31	50	15114	0.684	PPBv	100
10) ACROLEIN	5.43	56	7278	0.903	PPBv	97
11) ACETONE	5.54	43	486214	14.384	PPBv	86
12) TRICHLOROFLUOROMETHANE	5.70	101	48002	0.942	PPBv	98
13) ETHANOL	5.12	45	101403	13.647	PPBv	97
15) METHYLENE CHLORIDE	6.35	49	16915	0.496	PPBv	96
16) FREON 113	6.61	101	4527	0.106	PPBv	85
21) IPA	5.75	45	39894	1.213	PPBv	96
22) 2-BUTANONE (MEK)	7.74	43	72302	1.147	PPBv	91
25) HEXANE	8.36	41	26421	0.917	PPBv	95
27) CHLOROFORM	8.41	83	4420	0.091	PPBv	98
32) BENZENE	9.84	78	50531	0.834	PPBv	96
33) CARBON TETRACHLORIDE	9.99	117	3878	0.106	PPBv	97
37) TRICHLOROETHENE	10.90	95	1388	0.055	PPBv	91
40) HEPTANE	11.24	57	6867	0.359	PPBv	89
46) TOLUENE	12.89	91	118127	1.898	PPBv	100
47) 2-HEXANONE (MBK)	13.19	43	10798	0.171	PPBv	91
52) ETHYLBENZENE	15.48	91	21898	0.271	PPBv	99
53) M/P-XYLENE	15.69	91	56195	0.853	PPBv	100
56) O-XYLENE	16.31	91	20877	0.335	PPBv	98
59) 4-ETHYLTOLUENE	18.04	105	6478	0.085	PPBv	99
60) 1,3,5-TRIMETHYLBENZENE	18.15	105	5427	0.088	PPBv	98
61) 1,2,4-TRIMETHYLBENZENE	18.77	105	18306	0.304	PPBv	95
64) 1,4-DICHLOROBENZENE	19.09	146	4392	0.095	PPBv	95
67) NAPHTHALENE	22.57	128	5025	0.062	PPBv	100

Select list

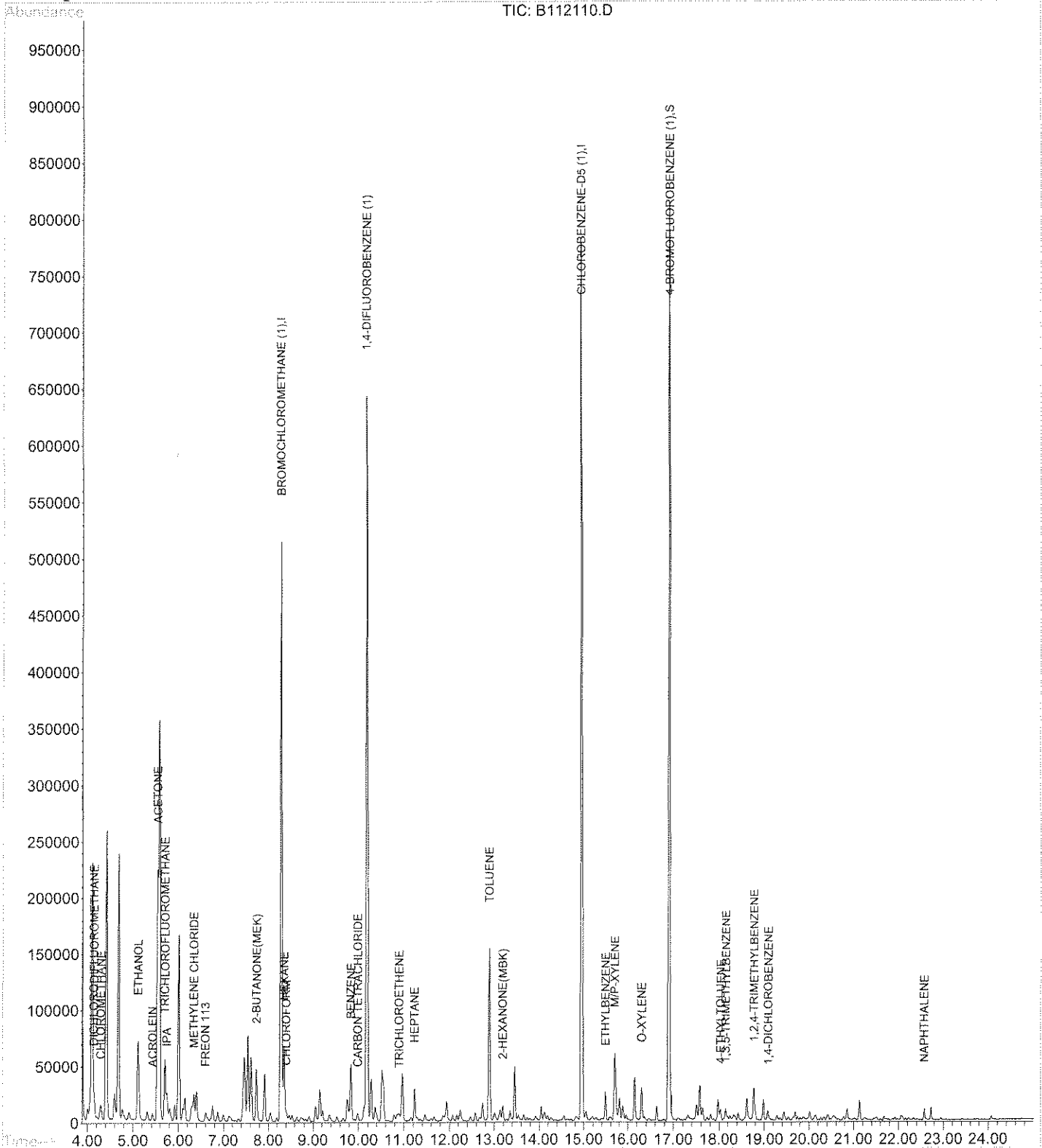
(#) = qualifier out of range (m) = manual integration

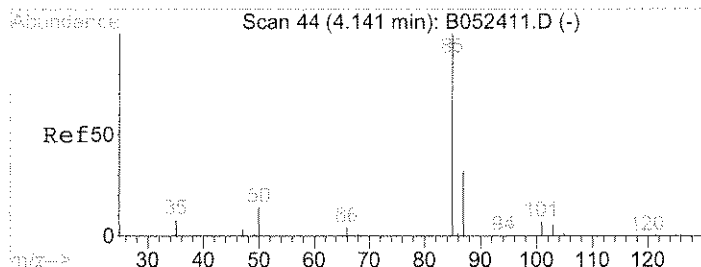
Data File : D:\HPCHEM\1\DATA\B112110\B112110.D
Acq On : 22 Nov 2010 1:56 am
Sample : 10K0616-03 0.7X
Misc : 1.5,1,400,855,0.7X
MS Integration Params: 11095INT.P
Quant Time: Nov 23 15:20 2010

Vial: 24
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

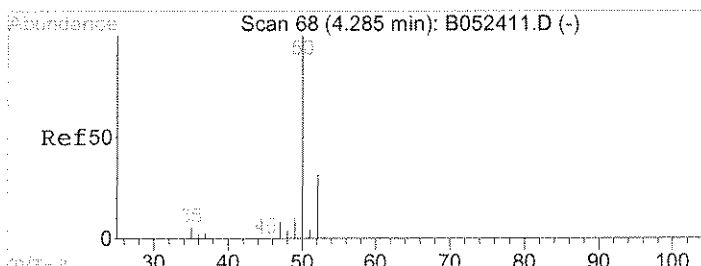
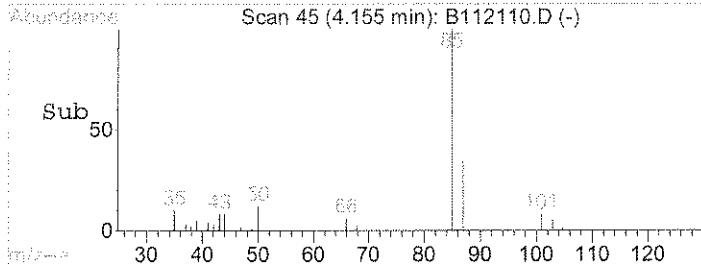
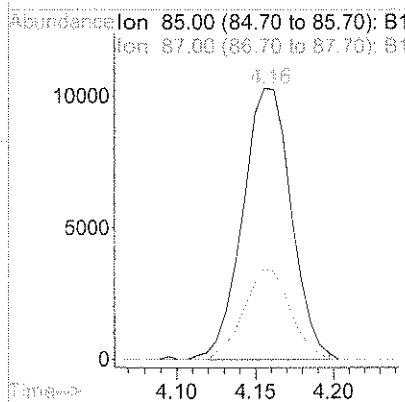
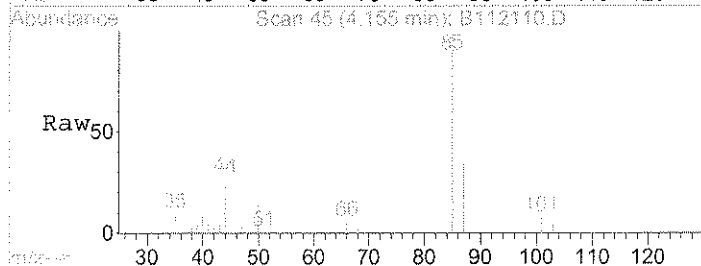
Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration





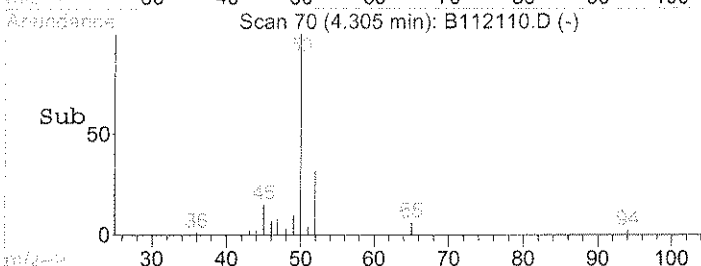
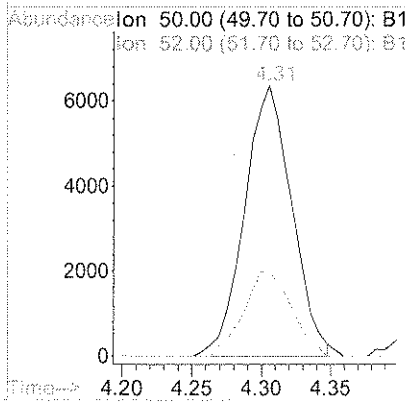
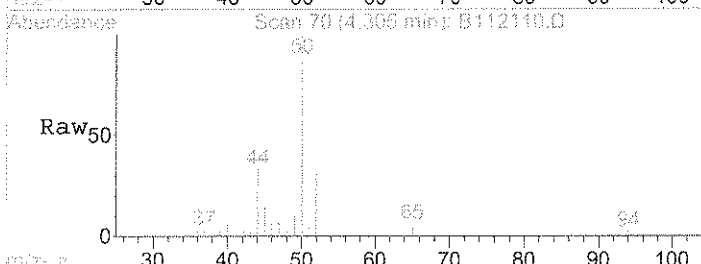
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.38 PPBv
 RT: 4.16 min Scan# 45
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

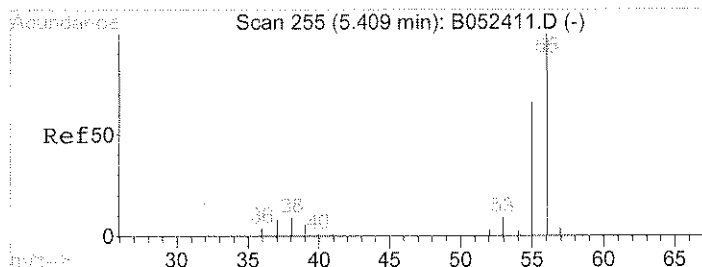
Tgt Ion: 85 Resp: 22292
 Ion Ratio Lower Upper
 85 100
 87 31.7 12.3 52.3



#4
 CHLOROMETHANE
 Concen: 0.68 PPBv
 RT: 4.31 min Scan# 70
 Delta R.T. 0.02 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

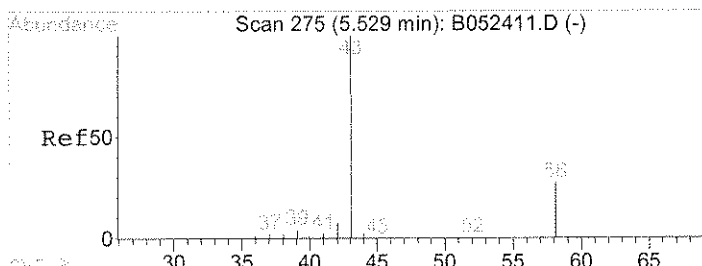
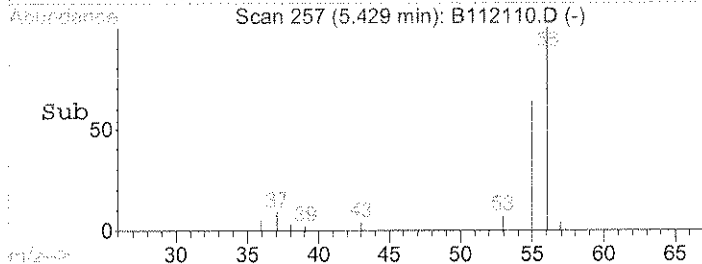
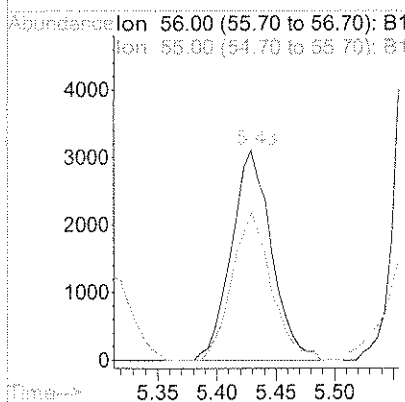
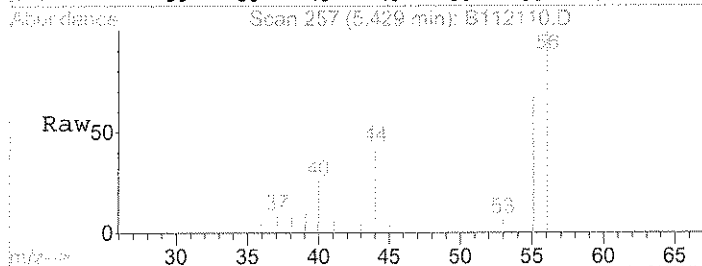
Tgt Ion: 50 Resp: 15114
 Ion Ratio Lower Upper
 50 100
 52 31.8 12.0 52.0





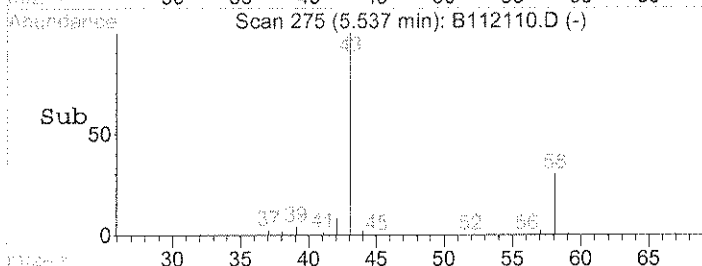
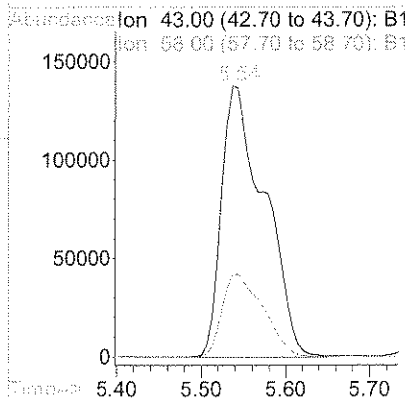
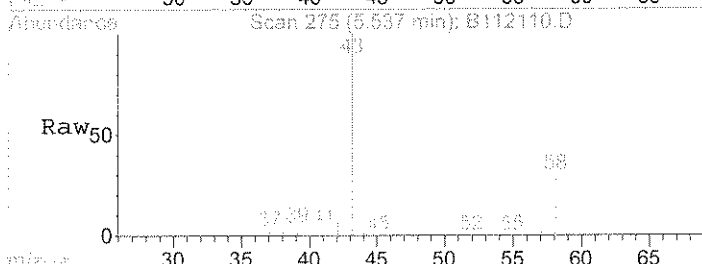
#10
 ACROLEIN
 Concen: 0.90 PPBv
 RT: 5.43 min Scan# 257
 Delta R.T. 0.02 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

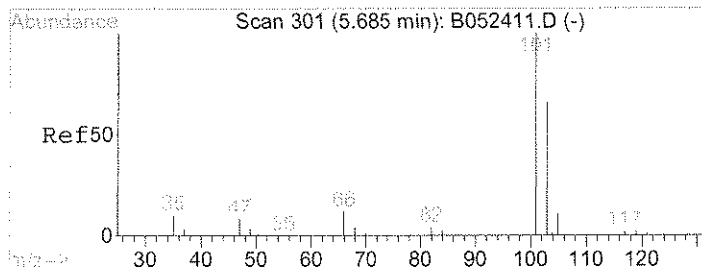
Tgt Ion	Resp	Lower	Upper
56	100		
55	68.5	51.2	91.2



#11
 ACETONE
 Concen: 14.38 PPBv
 RT: 5.54 min Scan# 275
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

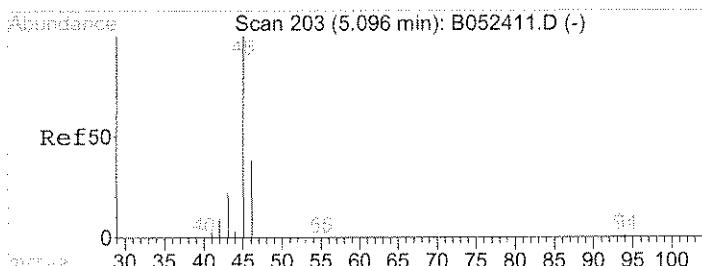
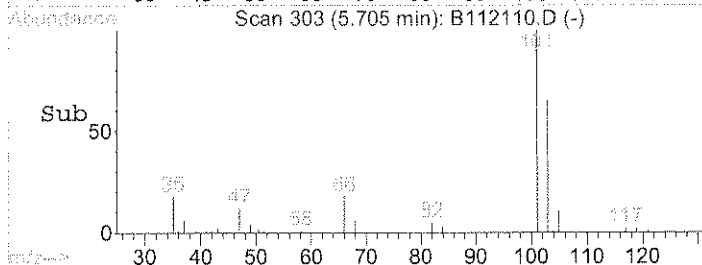
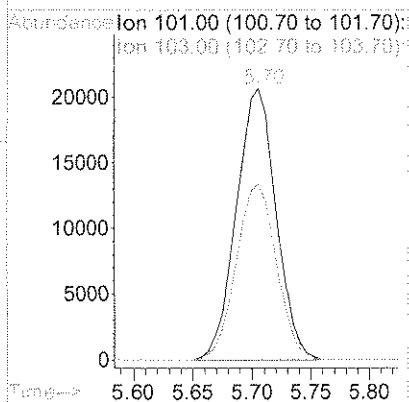
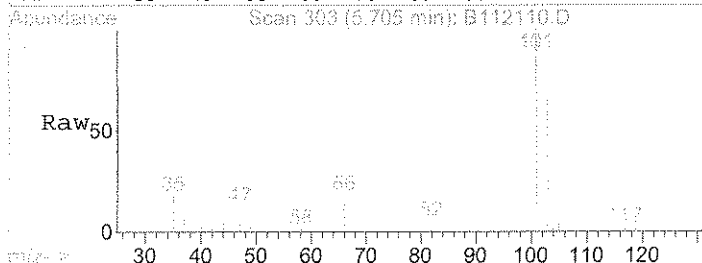
Tgt Ion	Resp	Lower	Upper
43	100		
58	28.9	2.1	42.1





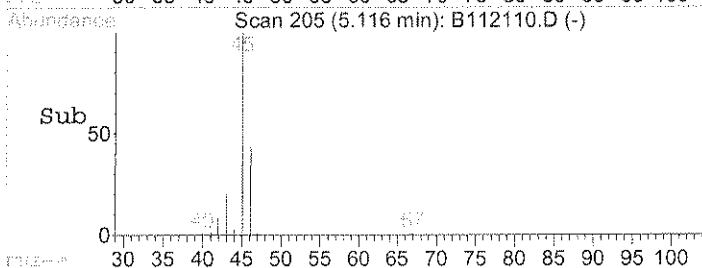
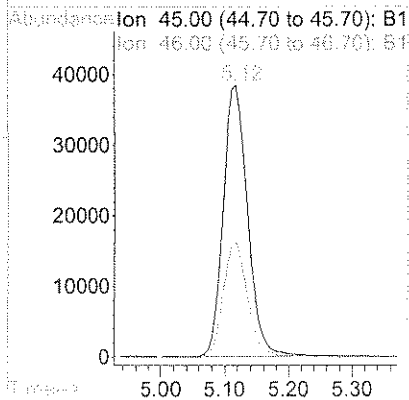
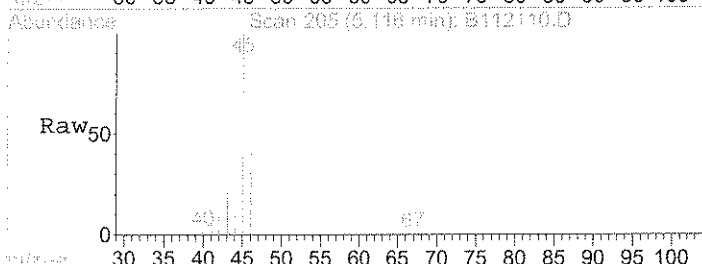
#12
TRICHLOROFLUOROMETHANE
Concen: 0.94 PPBv
RT: 5.70 min Scan# 303
Delta R.T. 0.02 min
Lab File: B112110.D
Acq: 22 Nov 2010 1:56 am

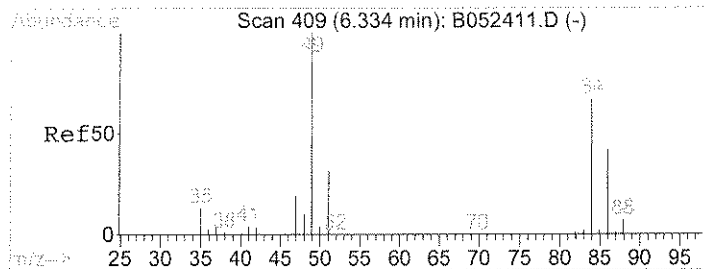
Tgt Ion	Resp	Lower	Upper
101	100		
103	65.3	46.8	86.8



#13
ETHANOL
Concen: 13.65 PPBv
RT: 5.12 min Scan# 205
Delta R.T. 0.02 min
Lab File: B112110.D
Acq: 22 Nov 2010 1:56 am

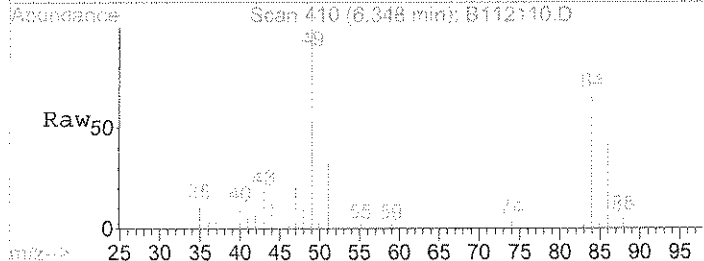
Tgt Ion	Resp	Lower	Upper
45	100		
46	42.5	24.6	64.6



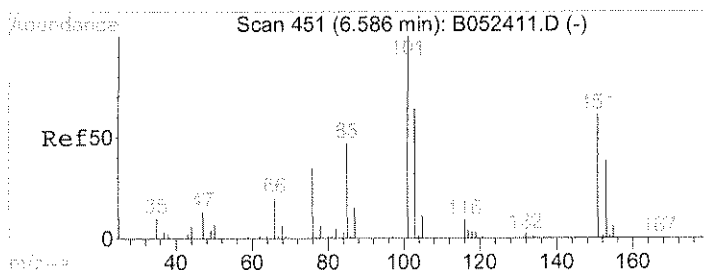
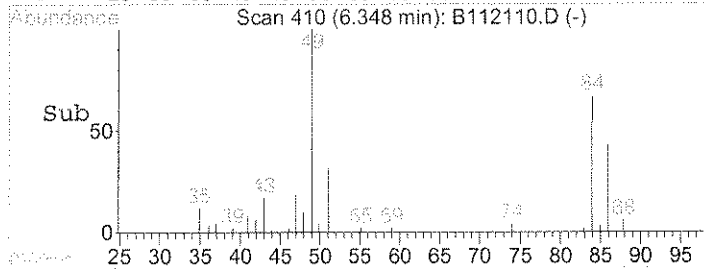
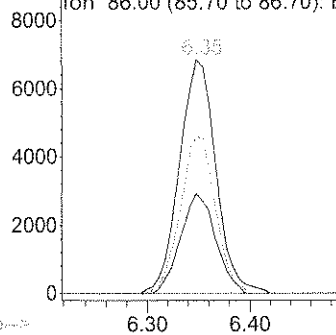


#15
 METHYLENE CHLORIDE
 Concen: 0.50 PPBv
 RT: 6.35 min Scan# 410
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

Tgt Ion	Resp	Lower	Upper
49	100		
84	64.6	46.8	86.8
86	41.1	24.2	64.2

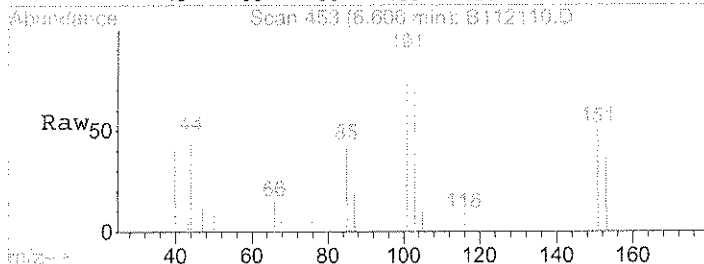


Abundance
 Ion 49.00 (48.70 to 49.70): B1
 Ion 84.00 (83.70 to 84.70): B1
 Ion 86.00 (85.70 to 86.70): B1

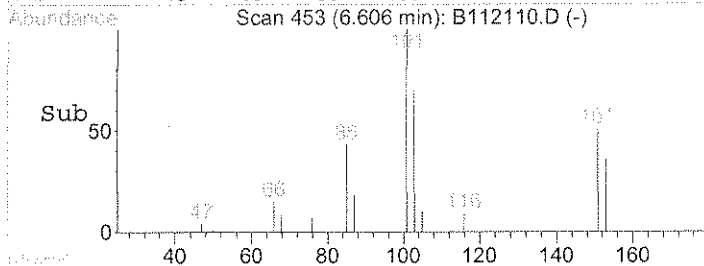
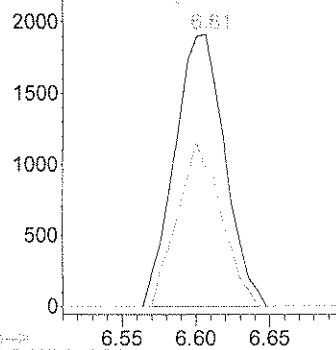


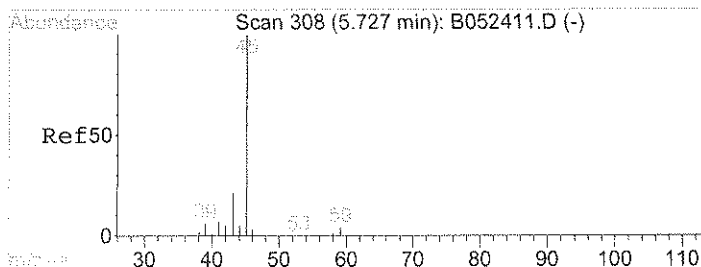
#16
 FREON 113
 Concen: 0.11 PPBv
 RT: 6.61 min Scan# 453
 Delta R.T. 0.02 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

Tgt Ion	Resp	Lower	Upper
101	100		
151	52.5	44.3	84.3



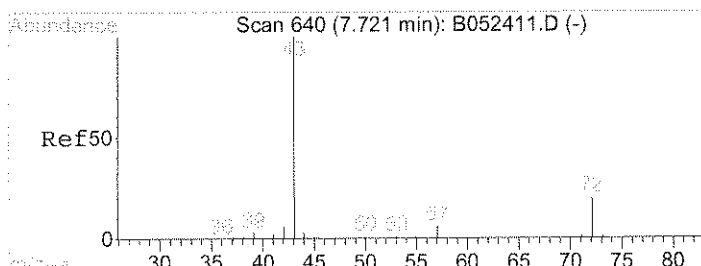
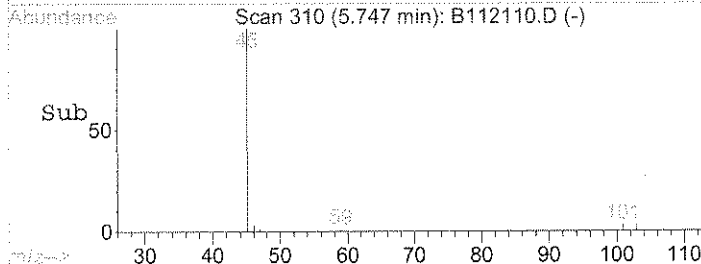
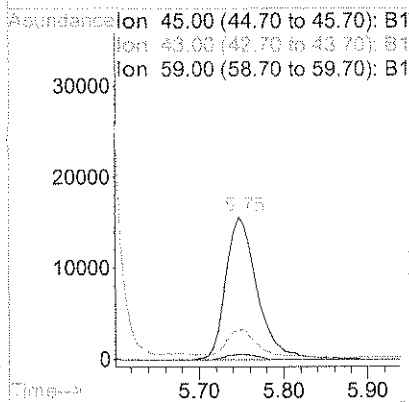
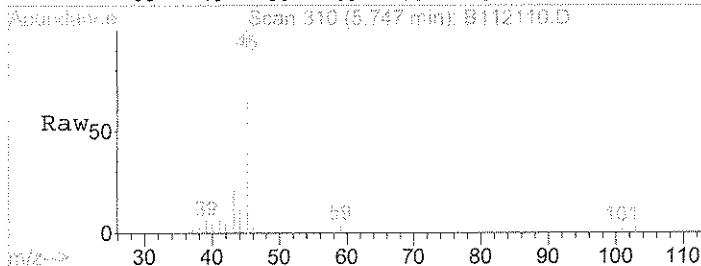
Abundance
 Ion 101.00 (100.70 to 101.70): B1
 Ion 151.00 (150.70 to 151.70): B1





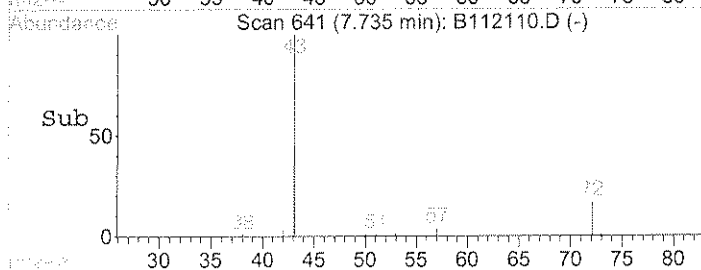
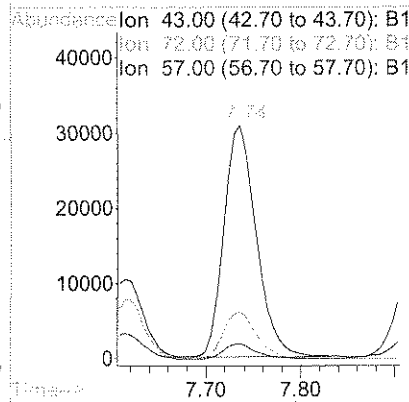
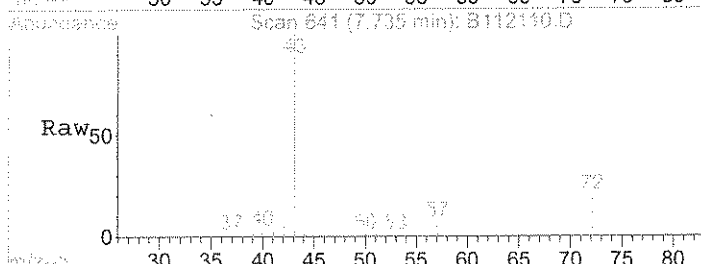
#21
 IPA
 Concen: 1.21 PPBv
 RT: 5.75 min Scan# 310
 Delta R.T. 0.02 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

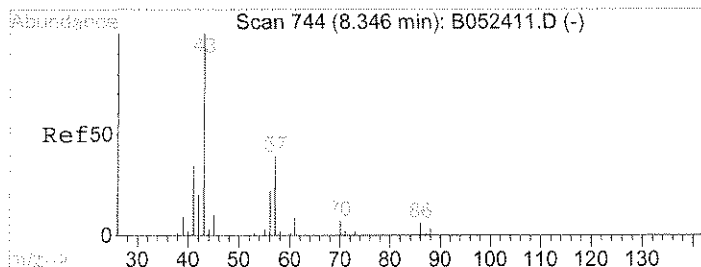
Tgt Ion	Resp	Lower	Upper
45	100		
43	20.5	2.5	42.5
59	3.5	0.0	23.4



#22
 2-BUTANONE (MEK)
 Concen: 1.15 PPBv
 RT: 7.74 min Scan# 641
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

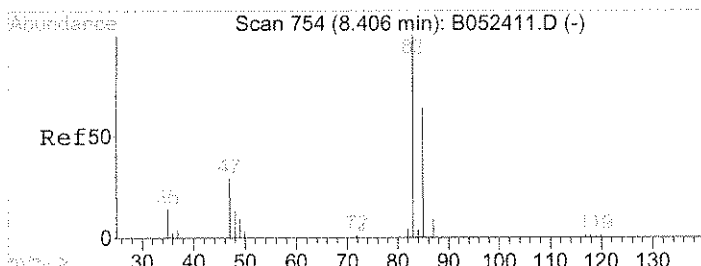
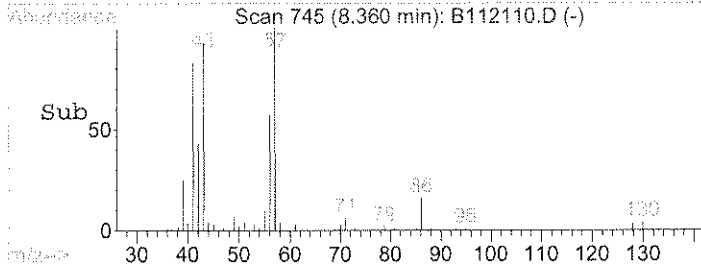
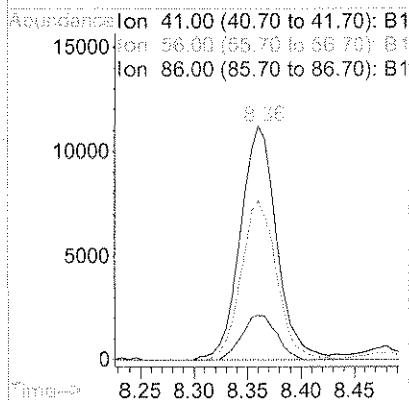
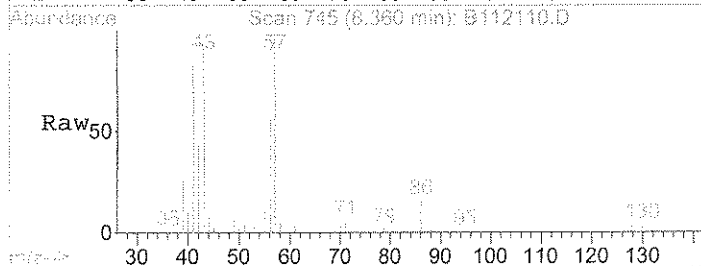
Tgt Ion	Resp	Lower	Upper
43	100		
72	20.6	0.0	35.7
57	6.4	0.0	25.8





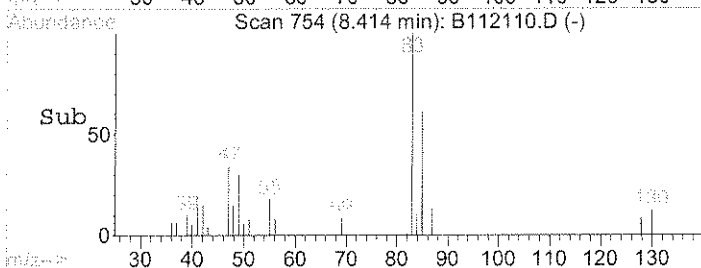
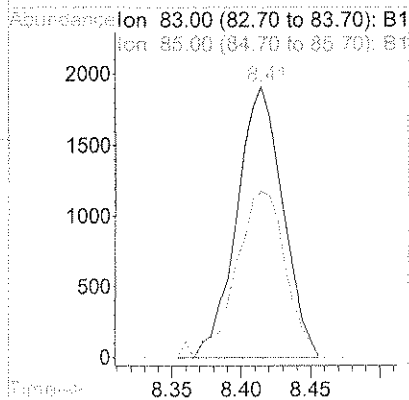
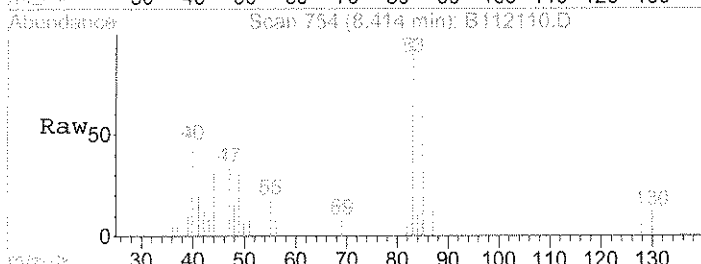
#25
 HEXANE
 Concen: 0.92 PPBv
 RT: 8.36 min Scan# 745
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

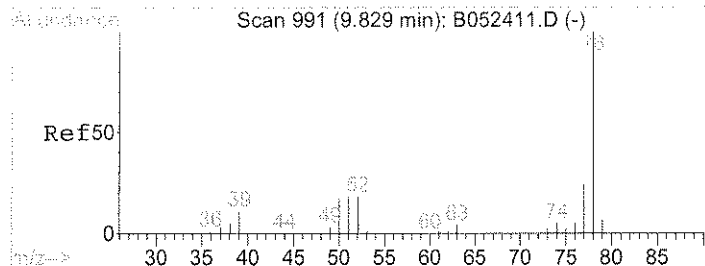
Tgt Ion	Resp	Lower	Upper
41	100		
56	66.1	50.0	90.0
86	18.2	0.0	36.6



#27
 CHLOROFORM
 Concen: 0.09 PPBv
 RT: 8.41 min Scan# 754
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

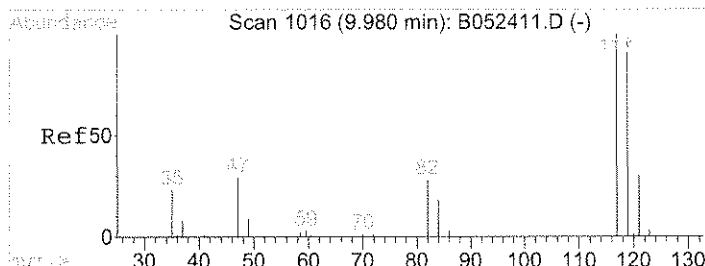
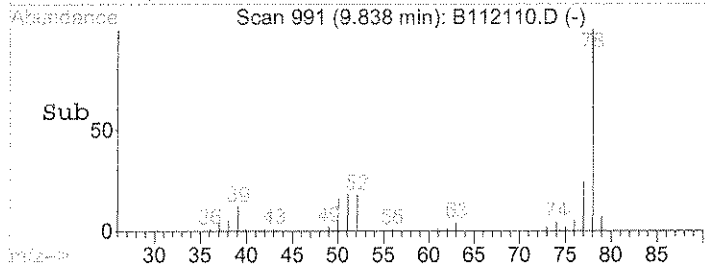
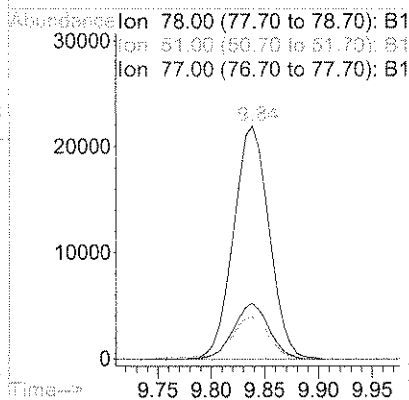
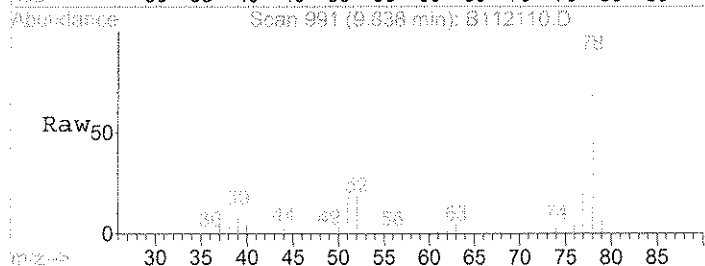
Tgt Ion	Resp	Lower	Upper
83	100		
85	66.5	44.9	84.9





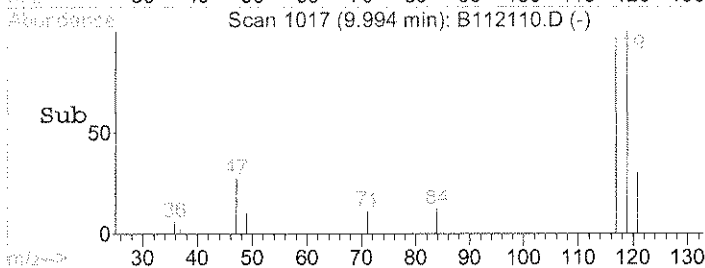
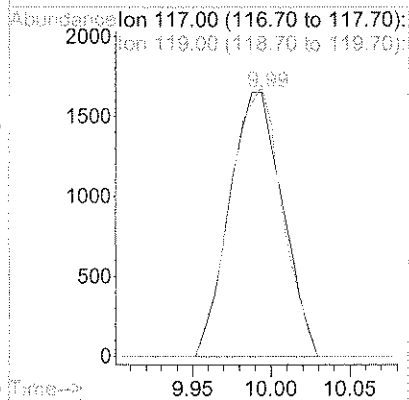
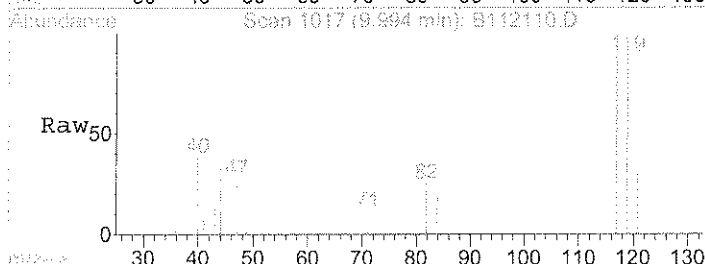
#32
 BENZENE
 Concen: 0.83 PPBv
 RT: 9.84 min Scan# 991
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

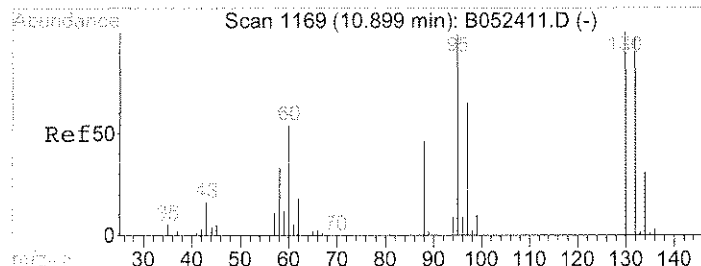
Tgt Ion	Resp	Lower	Upper
78	100		
51	19.4	0.0	36.4
77	23.8	4.7	44.7



#33
 CARBON TETRACHLORIDE
 Concen: 0.11 PPBv
 RT: 9.99 min Scan# 1017
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

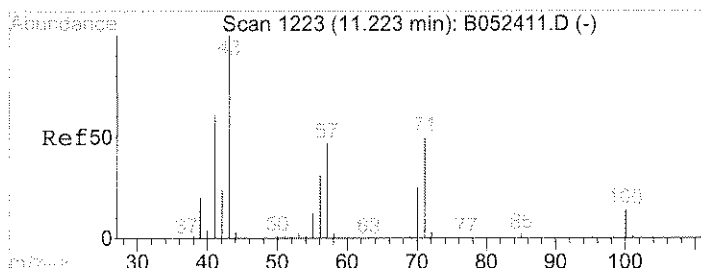
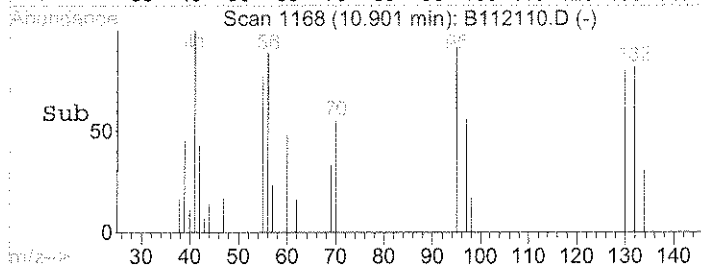
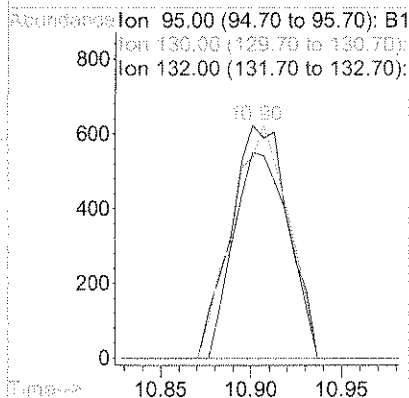
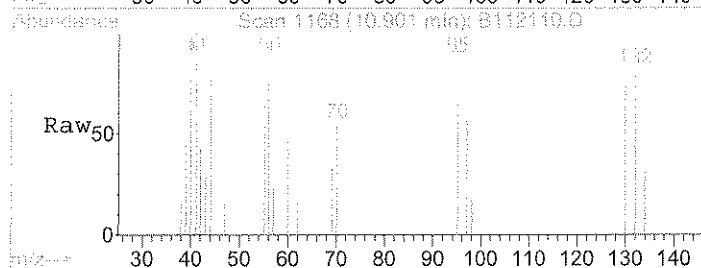
Tgt Ion	Resp	Lower	Upper
117	100		
119	99.9	77.4	117.4





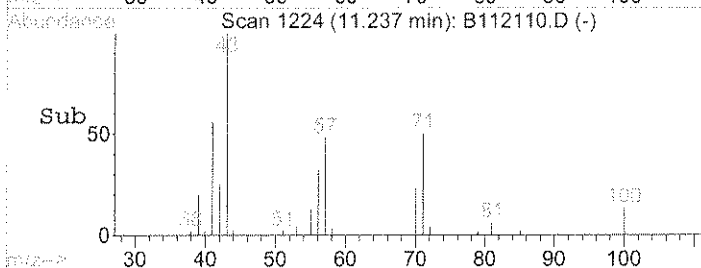
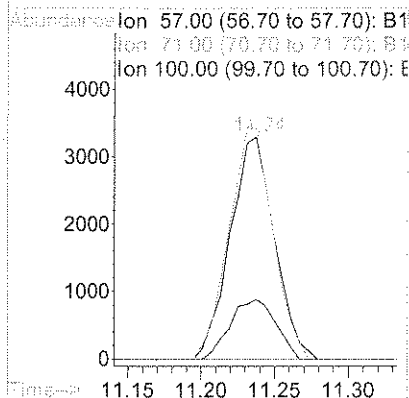
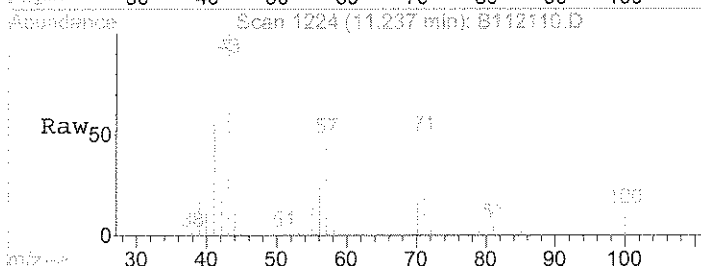
#37
 TRICHLOROETHENE
 Concen: 0.06 PPBv
 RT: 10.90 min Scan# 1168
 Delta R.T. 0.00 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

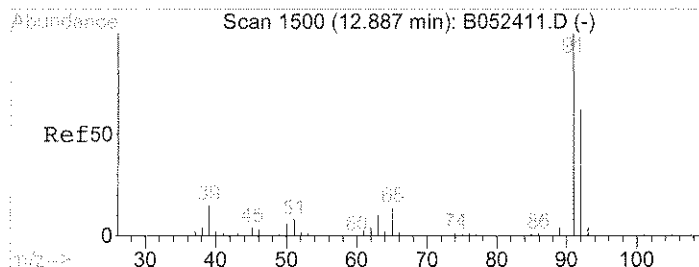
Tgt Ion	Resp	Lower	Upper
95	100		
130	96.5	65.4	105.4
132	84.1	70.0	110.0



#40
 HEPTANE
 Concen: 0.36 PPBv
 RT: 11.24 min Scan# 1224
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

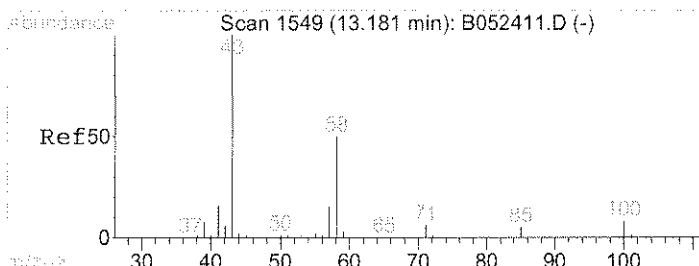
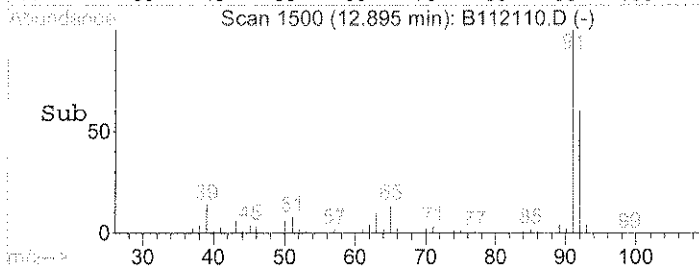
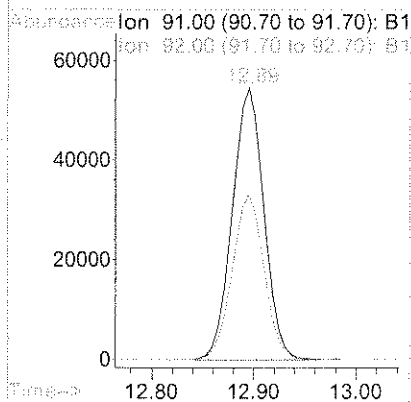
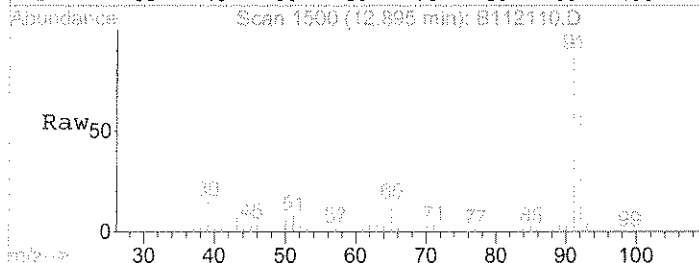
Tgt Ion	Resp	Lower	Upper
57	100		
71	103.8	71.5	111.5
100	27.7	6.2	46.2





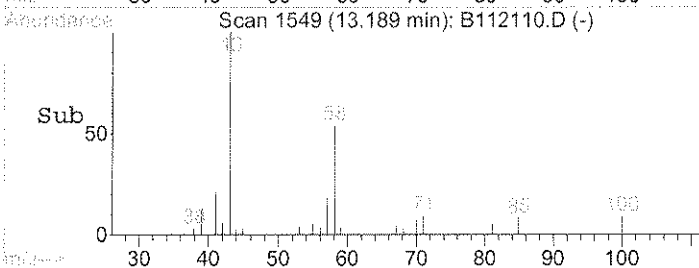
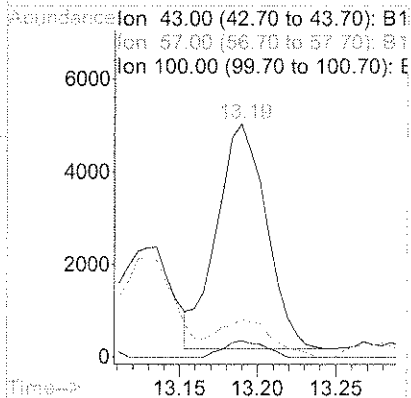
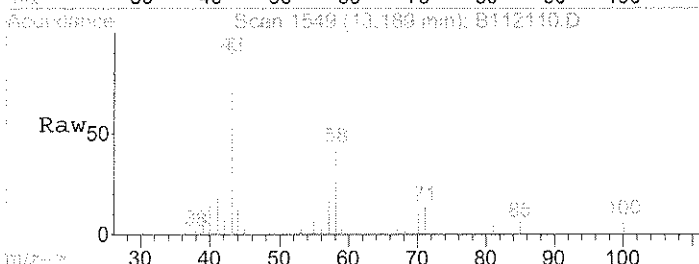
#46
 TOLUENE
 Concen: 1.90 PPBv
 RT: 12.89 min Scan# 1500
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

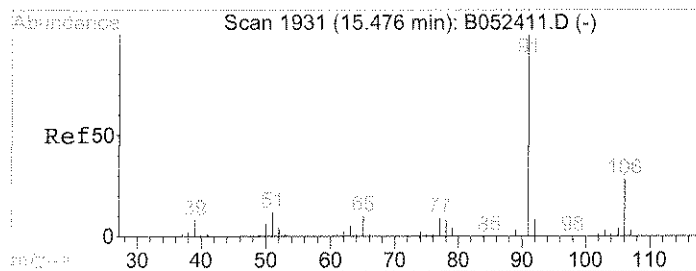
Tgt Ion	Resp	Lower	Upper
91	100		
92	61.0	41.1	81.1



#47
 2-HEXANONE (MBK)
 Concen: 0.17 PPBv
 RT: 13.19 min Scan# 1549
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

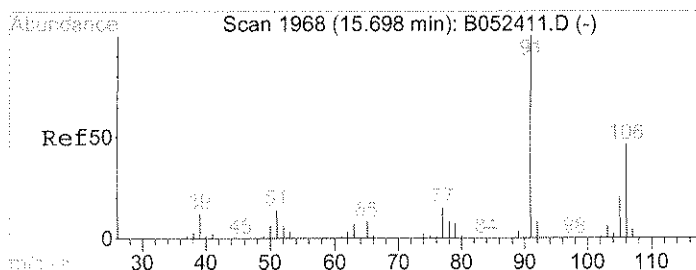
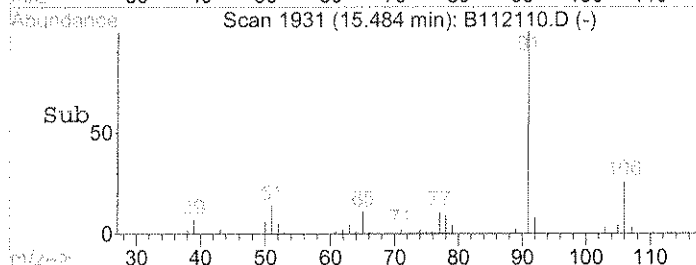
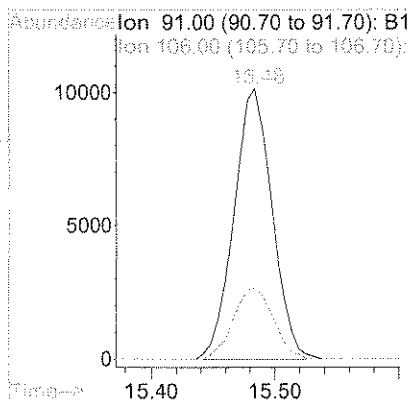
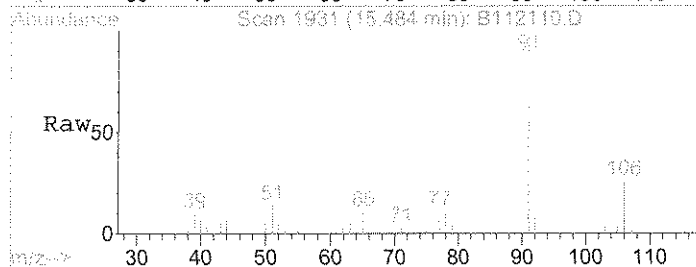
Tgt Ion	Resp	Lower	Upper
43	100		
57	17.9	0.0	39.8
100	6.1	0.0	33.0





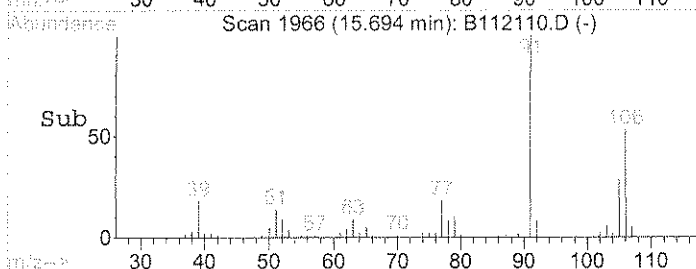
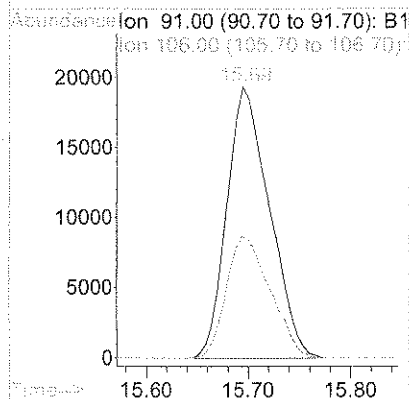
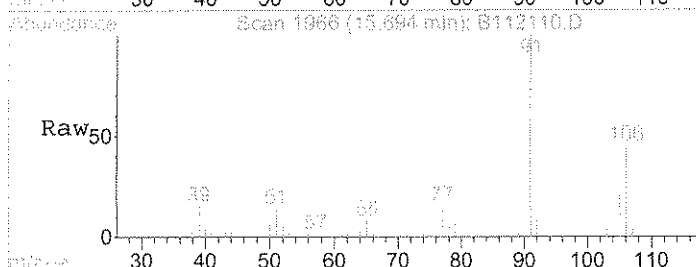
#52
 ETHYLBENZENE
 Concen: 0.27 PPBv
 RT: 15.48 min Scan# 1931
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

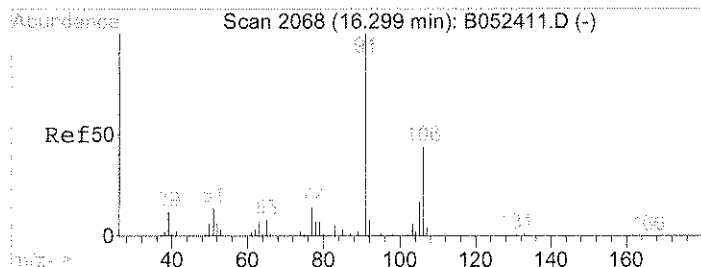
Tgt Ion	Resp	Lower	Upper
91	100		
106	27.3	8.0	48.0



#53
 M/P-XYLENE
 Concen: 0.85 PPBv
 RT: 15.69 min Scan# 1966
 Delta R.T. -0.00 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

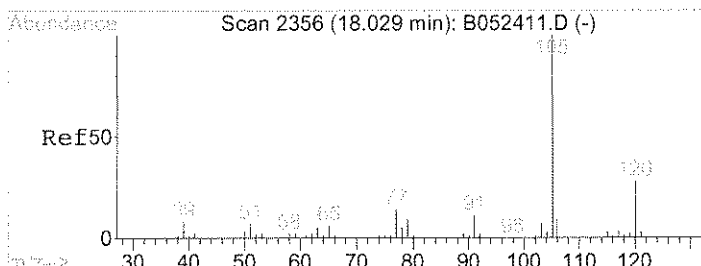
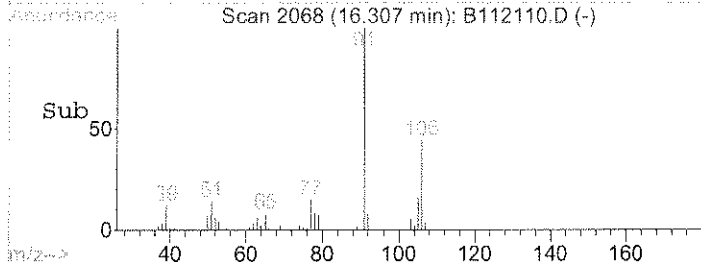
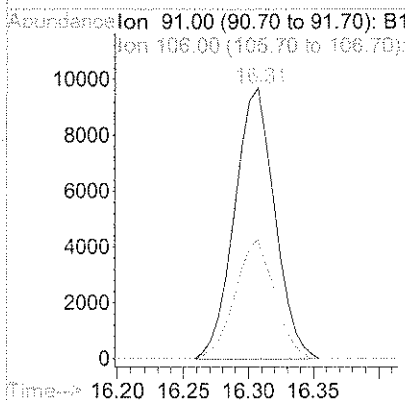
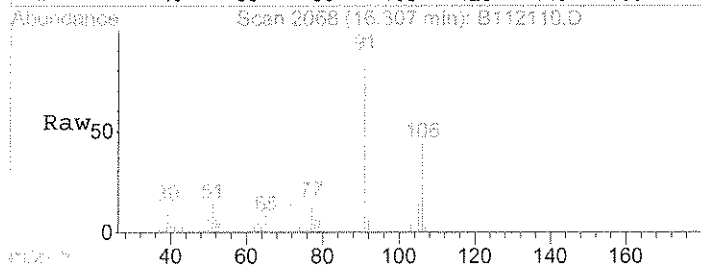
Tgt Ion	Resp	Lower	Upper
91	100		
106	45.7	26.0	66.0





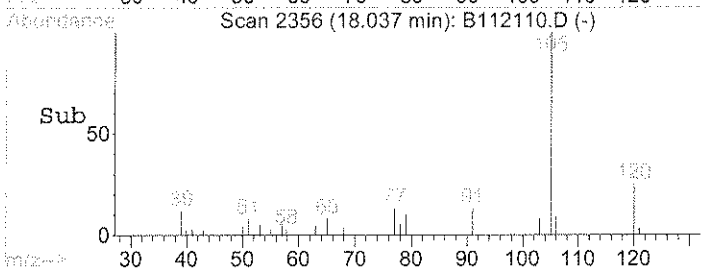
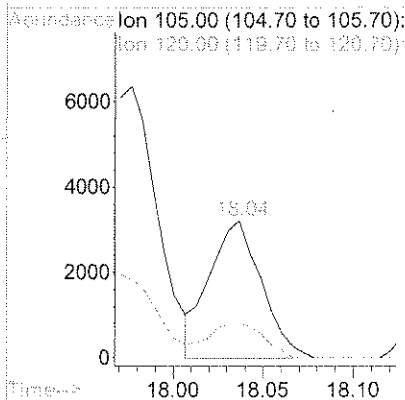
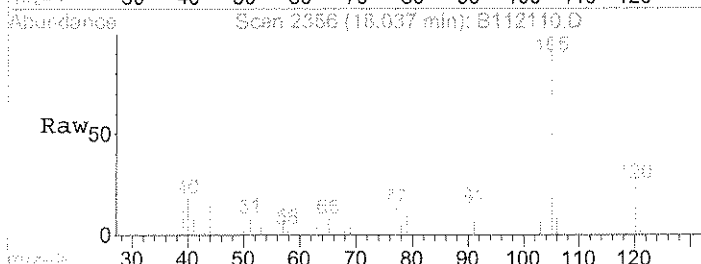
#56
 O-XYLENE
 Concen: 0.33 PPBv
 RT: 16.31 min Scan# 2068
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

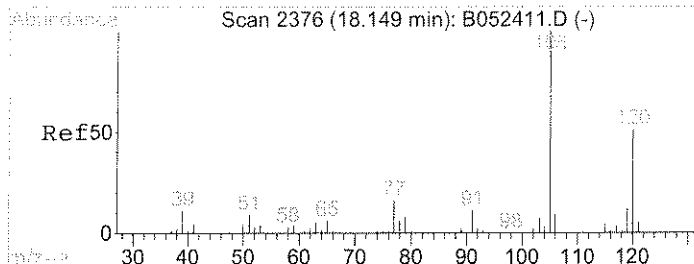
Tgt Ion	Resp	Lower	Upper
91	100		
106	42.9	24.3	64.3



#59
 4-ETHYLTOLUENE
 Concen: 0.08 PPBv
 RT: 18.04 min Scan# 2356
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

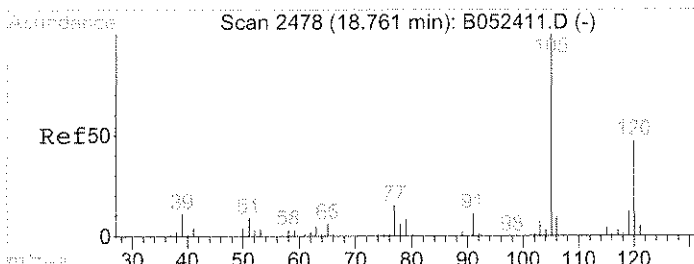
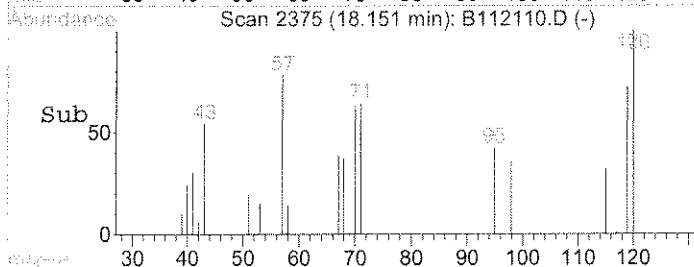
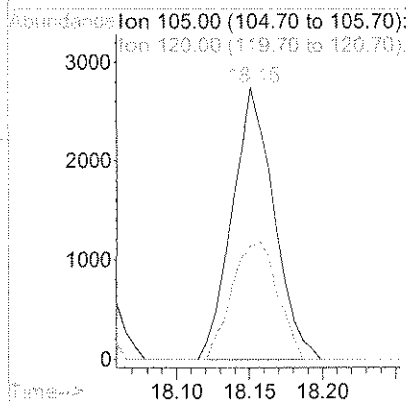
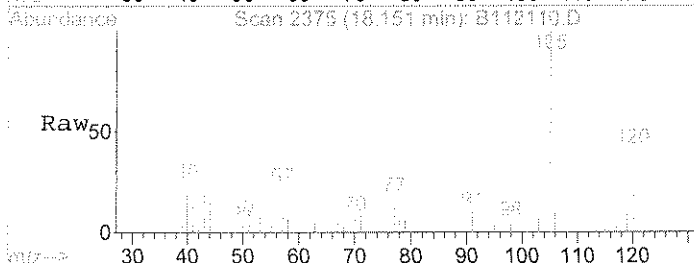
Tgt Ion	Resp	Lower	Upper
105	100		
120	27.0	6.3	46.3





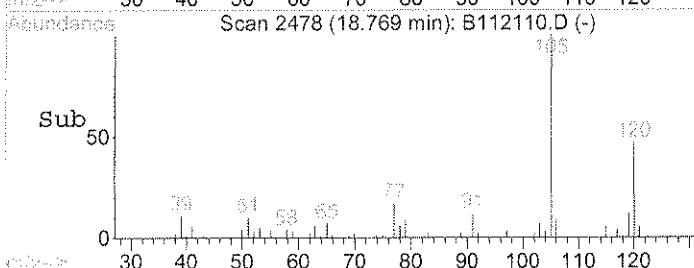
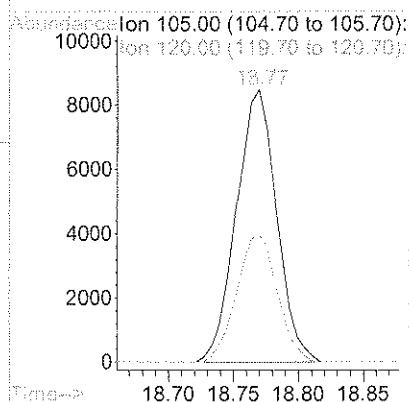
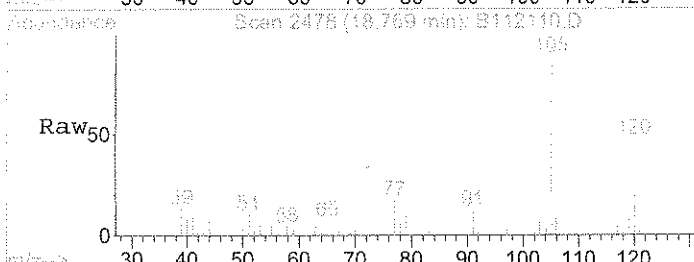
#60
 1,3,5-TRIMETHYLBENZENE
 Concen: 0.09 PPBv
 RT: 18.15 min Scan# 2375
 Delta R.T. 0.00 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

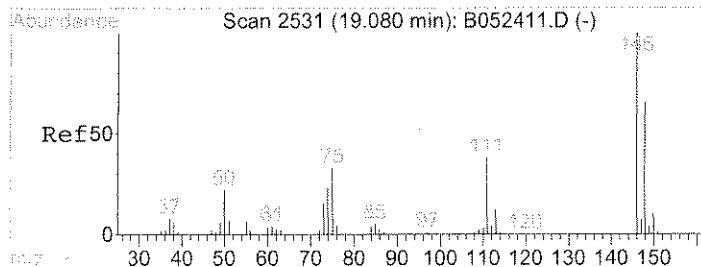
Tgt Ion	Resp	Lower	Upper
105	100		
120	47.1	28.5	68.5



#61
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.30 PPBv
 RT: 18.77 min Scan# 2478
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

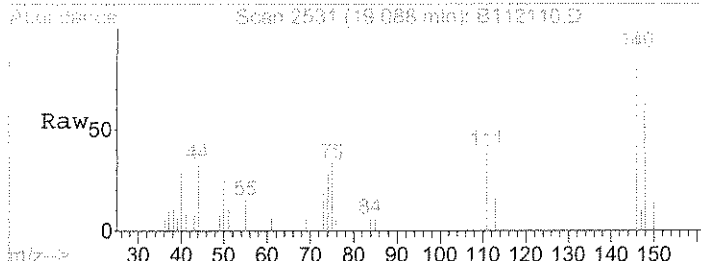
Tgt Ion	Resp	Lower	Upper
105	100		
120	47.1	23.7	63.7



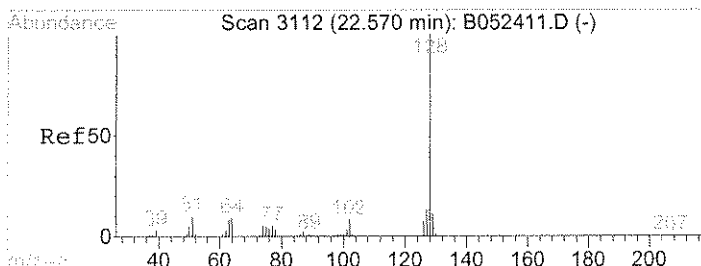
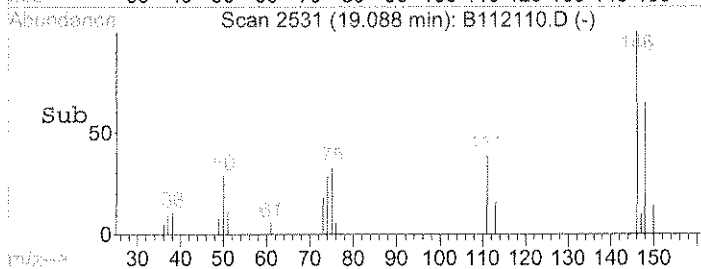
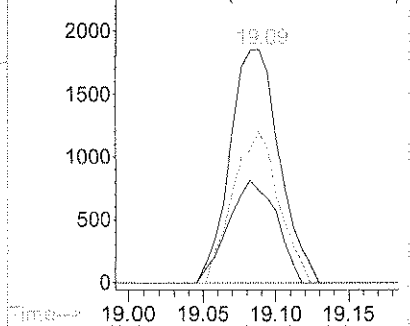


#64
 1,4-DICHLOROBENZENE
 Concen: 0.10 PPBv
 RT: 19.09 min Scan# 2531
 Delta R.T. 0.01 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

Tgt Ion	Resp	Lower	Upper
146	100		
148	60.2	43.9	83.9
111	42.7	20.0	60.0

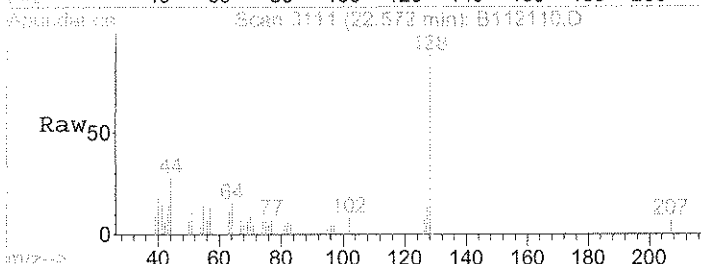


Abundance Ion 146.00 (145.70 to 146.70):
 2500 Ion 148.00 (147.70 to 148.70):
 Ion 111.00 (110.70 to 111.70):

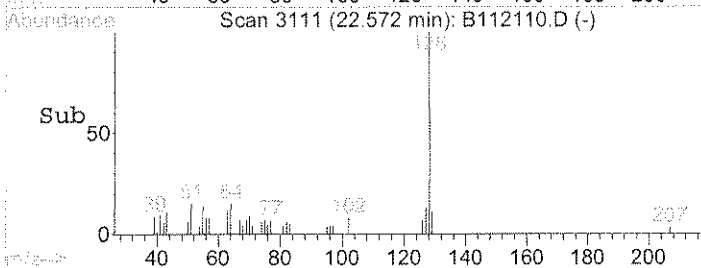
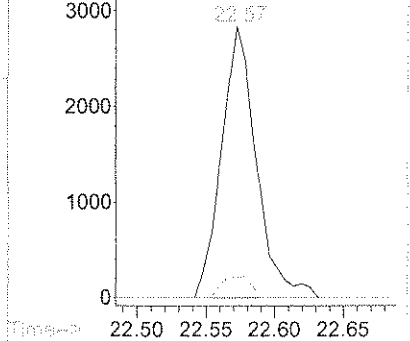


#67
 NAPHTHALENE
 Concen: 0.06 PPBv
 RT: 22.57 min Scan# 3111
 Delta R.T. 0.00 min
 Lab File: B112110.D
 Acq: 22 Nov 2010 1:56 am

Tgt Ion	Resp	Lower	Upper
128	100		
102	6.5	0.0	20.0



Abundance Ion 128.00 (127.70 to 128.70):
 Ion 102.00 (101.70 to 102.70):



Data File : D:\HPCHEM\1\DATA\B112110\B112111.D Vial: 25
 Acq On : 22 Nov 2010 2:45 am Operator: TPH
 Sample : 10K0616-02 0.7X Inst : SYSB
 Misc : 1.5,1,400,855,0.7X Multiplr: 1.00
 MS Integration Params: 11095INT.P
 Quant Time: Nov 23 15:23 2010 Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

0.05

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	327516	8.00	PPBv	0.01
30) 1,4-DIFLUOROBENZENE (1)	10.18	114	558872	8.00	PPBv	0.01
44) CHLOROBENZENE-D5 (1)	14.95	117	524461	8.00	PPBv	0.00

System Monitoring Compounds
 58) 4-BROMOFLUOROBENZENE (1) 16.90 174 259303 7.37 PPBv 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 92.13%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) DICHLORODIFLUOROMETHANE	4.16	85	22549	0.385	PPBv	99
4) CHLOROMETHANE	4.31	50	15303	0.690	PPBv	98
10) ACROLEIN	5.43	56	3738	0.462	PPBv	93
11) ACETONE	5.55	43	165897	4.892	PPBv	68
12) TRICHLOROFLUOROMETHANE	5.70	101	43541	0.852	PPBv	98
13) ETHANOL	5.11	45	97248	13.046	PPBv	97
15) METHYLENE CHLORIDE	6.35	49	16078	0.470	PPBv	98
16) FREON 113	6.60	101	4485	0.105	PPBv	87
17) CARBON DISULFIDE	6.63	76	4998	0.068	PPBv	96
21) IPA	5.75	45	33263	1.008	PPBv	95
22) 2-BUTANONE (MEK)	7.73	43	26099	0.413	PPBv	91
25) HEXANE	8.36	41	26815	0.927	PPBv	97
27) CHLOROFORM	8.41	83	4342	0.089	PPBv	98
32) BENZENE	9.84	78	51149	0.831	PPBv	97
33) CARBON TETRACHLORIDE	9.99	117	4199	0.113	PPBv	94
34) CYCLOHEXANE	10.12	84	5221	0.203	PPBv	89
38) 1,4-DIOXANE	10.92	88	1976	0.146	PPBv #	49
40) HEPTANE	11.24	57	7097	0.365	PPBv	89
46) TOLUENE	12.89	91	118545	1.888	PPBv	99
50) TETRACHLOROETHENE	14.20	166	1482	0.050	PPBv	93
52) ETHYLBENZENE	15.48	91	21818	0.268	PPBv	98
53) M/P-XYLENE	15.69	91	56834	0.855	PPBv	99
56) O-XYLENE	16.31	91	20834	0.331	PPBv	96
59) 4-ETHYLTOLUENE	18.04	105	6450	0.084	PPBv	100
60) 1,3,5-TRIMETHYLBENZENE	18.16	105	5133	0.082	PPBv	100
61) 1,2,4-TRIMETHYLBENZENE	18.77	105	17268	0.284	PPBv	95
64) 1,4-DICHLOROBENZENE	19.09	146	3625	0.078	PPBv	97

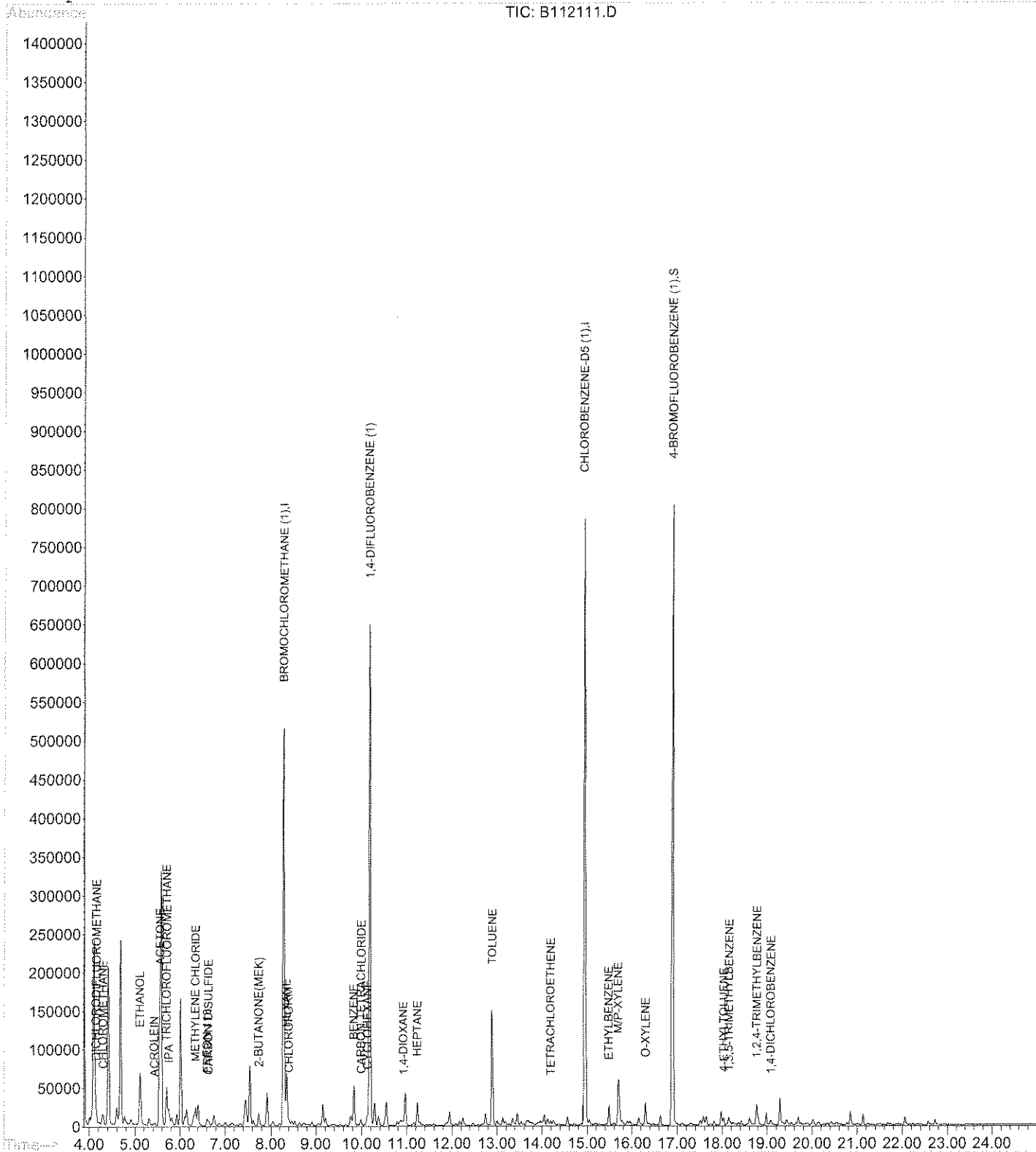
Select list

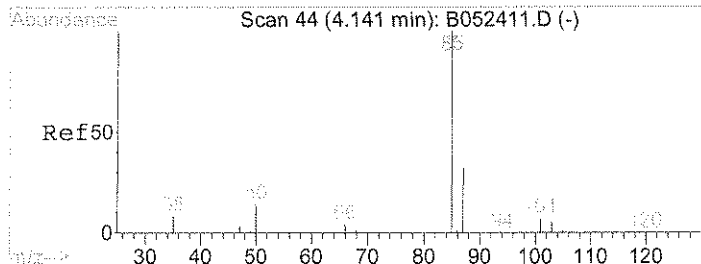
Data File : D:\HPCHEM\1\DATA\B112110\B112111.D
Acq On : 22 Nov 2010 2:45 am
Sample : 10K0616-02 0.7X
Misc : 1.5,1,400,855,0.7X
MS Integration Params: 11095INT.P
Quant Time: Nov 23 15:23 2010

Vial: 25
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

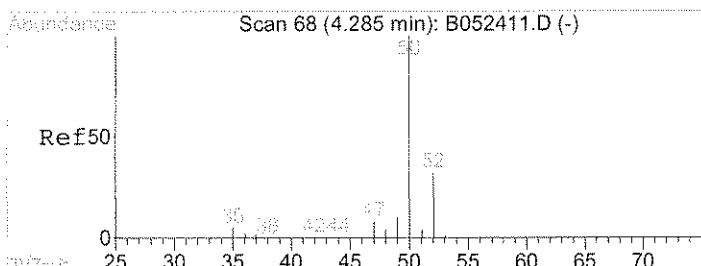
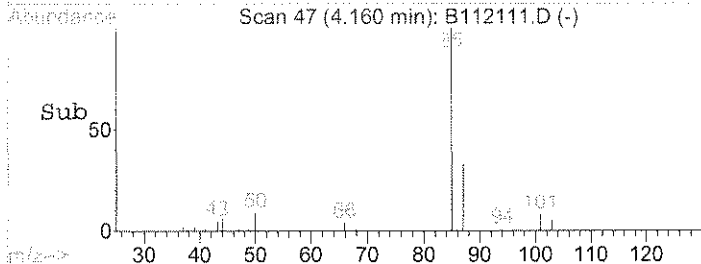
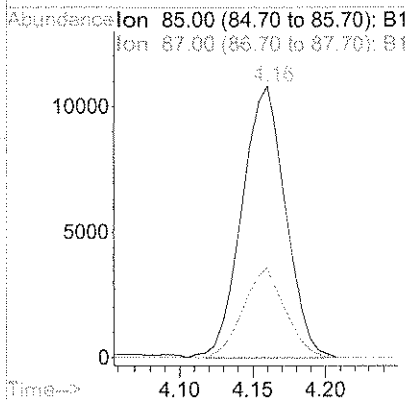
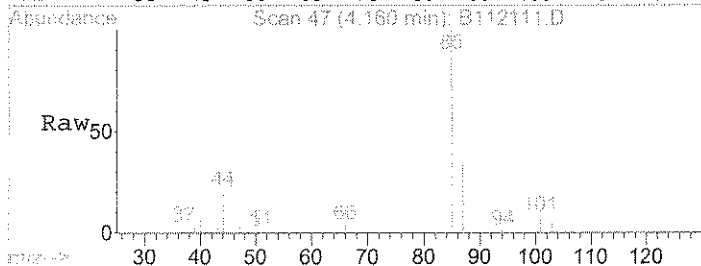
Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration





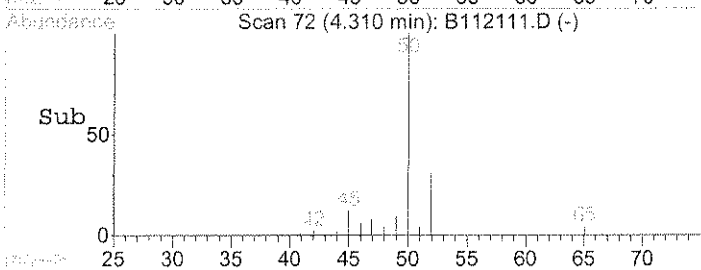
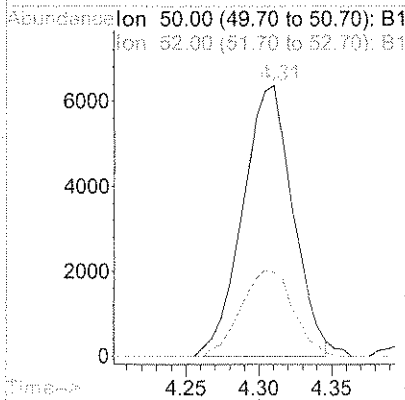
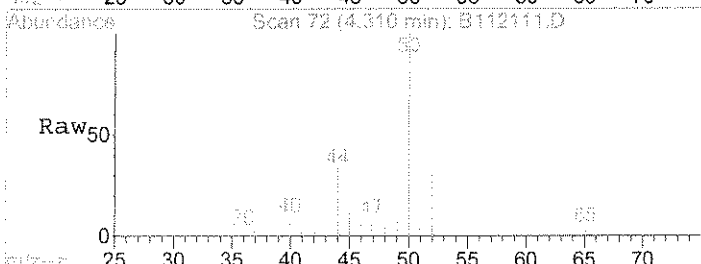
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.39 PPBv
 RT: 4.16 min Scan# 47
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

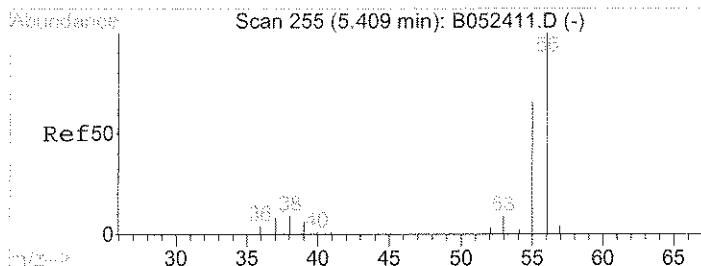
Tgt Ion	85	Resp	22549
Ion Ratio	Lower	Upper	
85	100		
87	31.5	12.3	52.3



#4
 CHLOROMETHANE
 Concen: 0.69 PPBv
 RT: 4.31 min Scan# 72
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

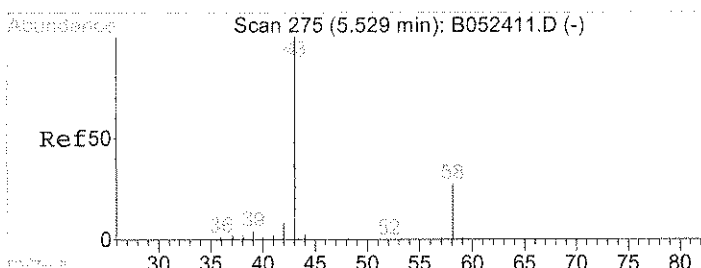
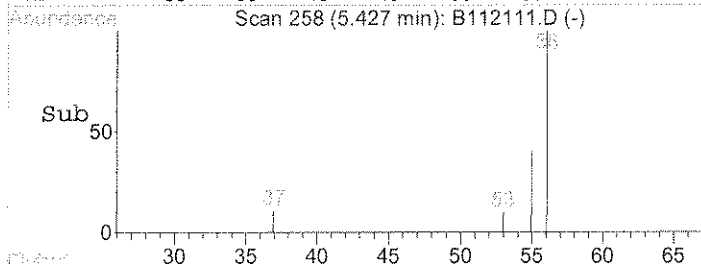
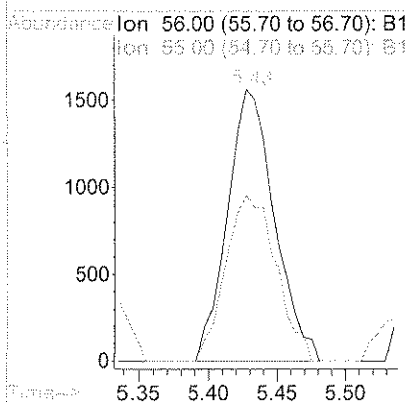
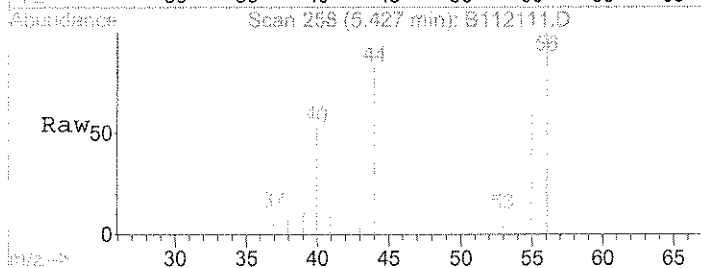
Tgt Ion	50	Resp	15303
Ion Ratio	Lower	Upper	
50	100		
52	32.9	12.0	52.0





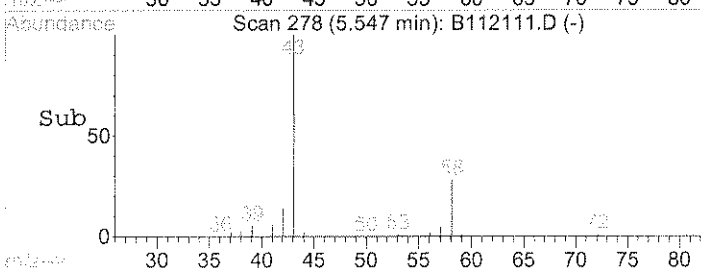
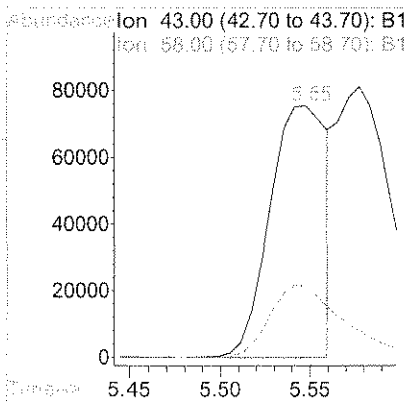
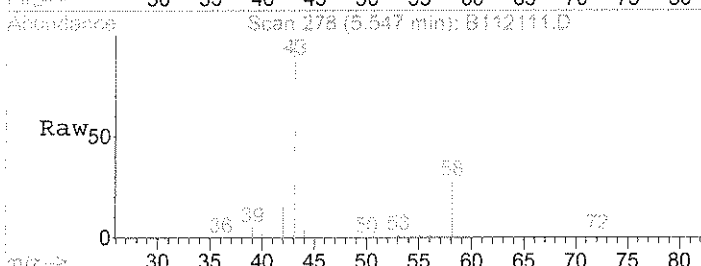
#10
 ACROLEIN
 Concen: 0.46 PPBv
 RT: 5.43 min Scan# 258
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

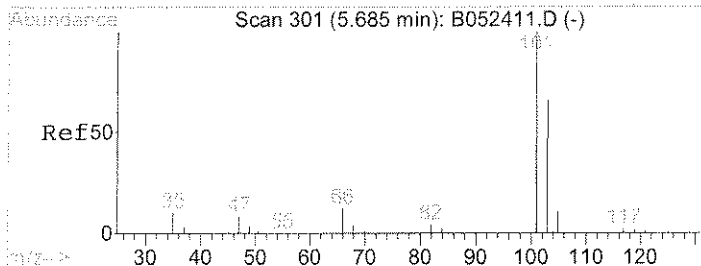
Tgt Ion: 56 Resp: 3738
 Ion Ratio Lower Upper
 56 100
 55 65.4 51.2 91.2



#11
 ACETONE
 Concen: 4.89 PPBv
 RT: 5.55 min Scan# 278
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

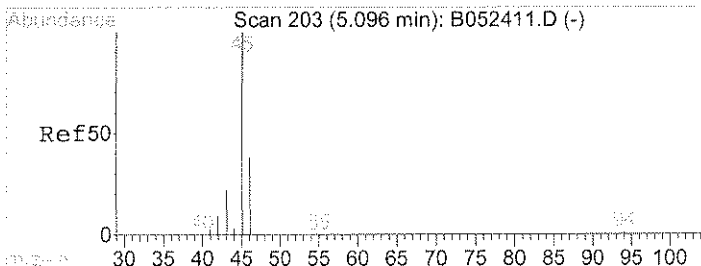
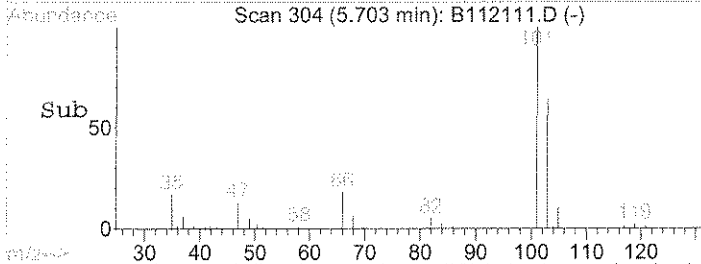
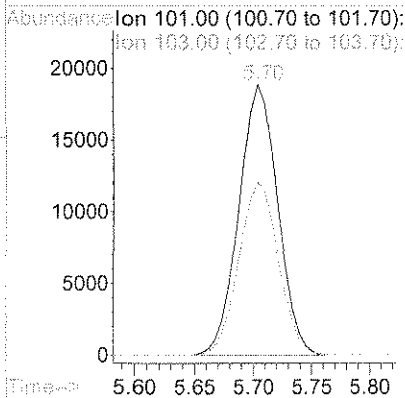
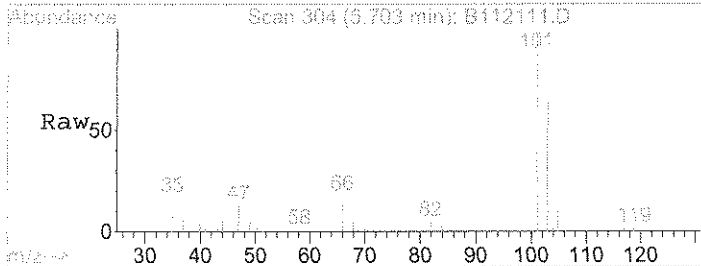
Tgt Ion: 43 Resp: 165897
 Ion Ratio Lower Upper
 43 100
 58 37.6 2.1 42.1





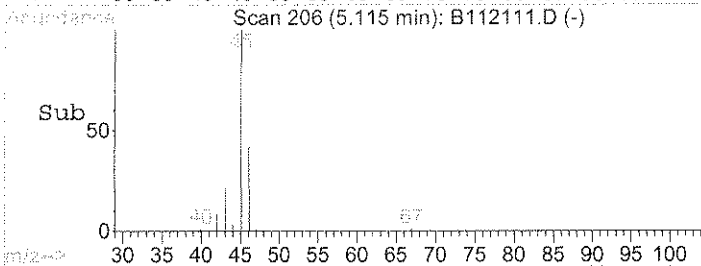
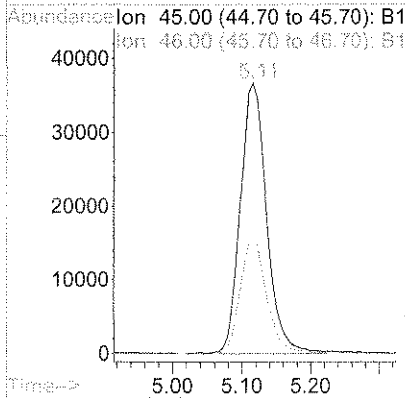
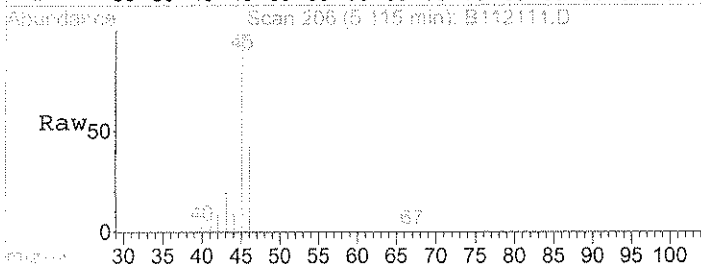
#12
 TRICHLOROFLUOROMETHANE
 Concen: 0.85 PPBv
 RT: 5.70 min Scan# 304
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

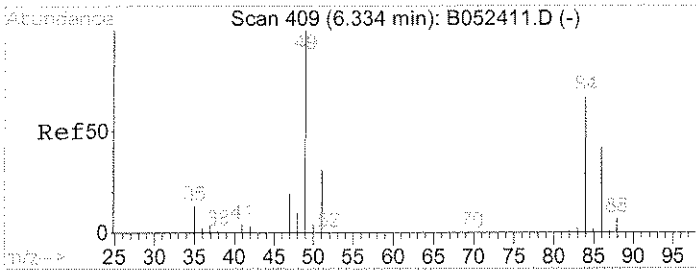
Tgt Ion	Resp	Lower	Upper
101	43541		
103	64.8	46.8	86.8



#13
 ETHANOL
 Concen: 13.05 PPBv
 RT: 5.11 min Scan# 206
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

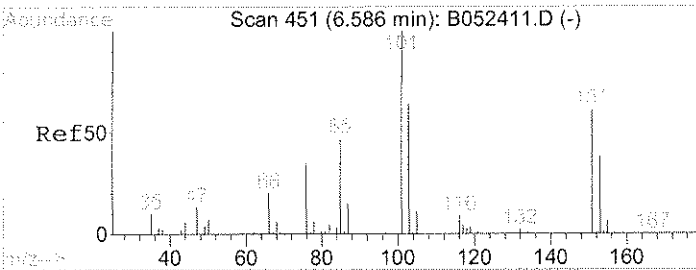
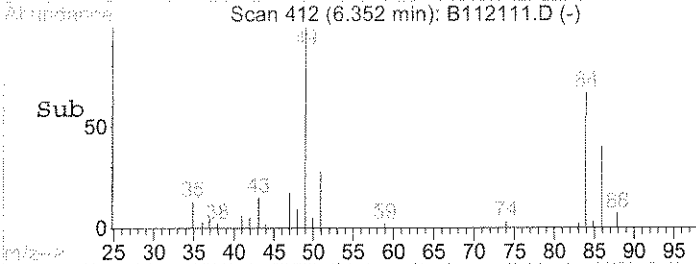
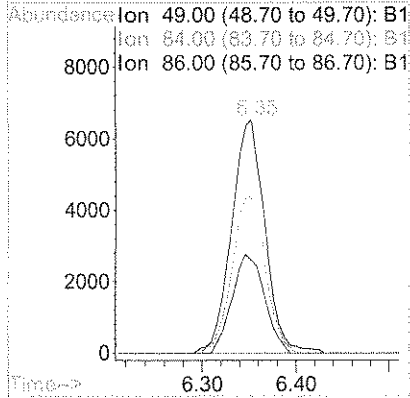
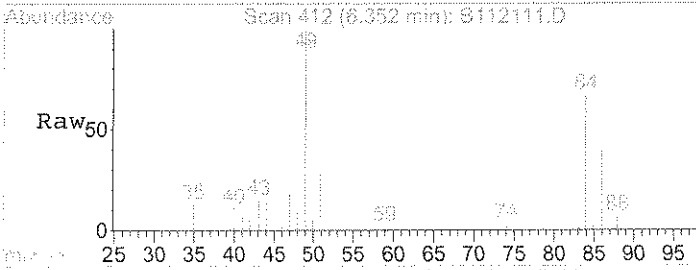
Tgt Ion	Resp	Lower	Upper
45	97248		
46	42.4	24.6	64.6





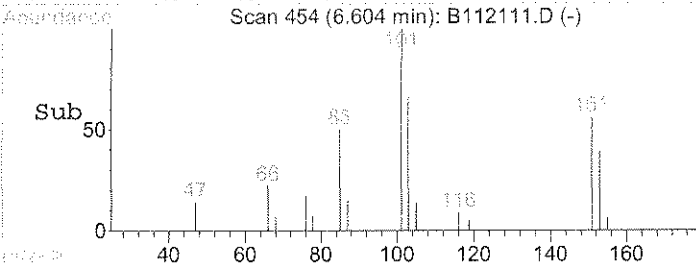
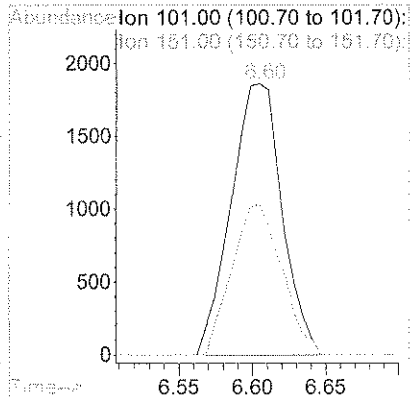
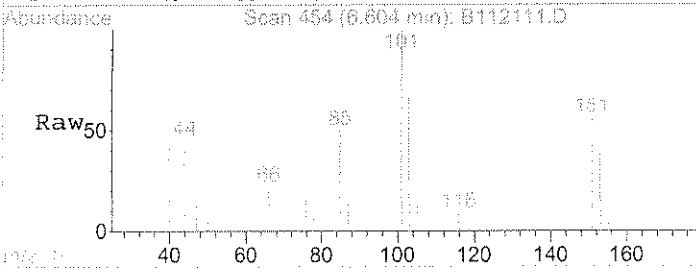
#15
 METHYLENE CHLORIDE
 Concen: 0.47 PPBv
 RT: 6.35 min Scan# 412
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

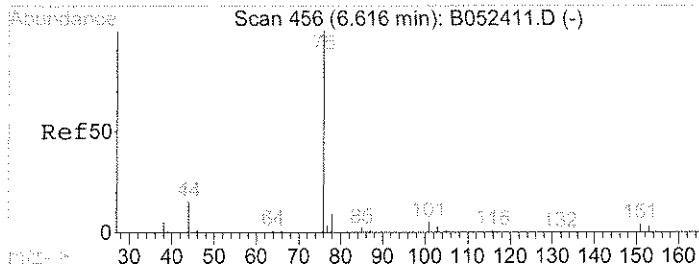
Tgt Ion	Resp	Lower	Upper
49	100		
84	66.4	46.8	86.8
86	41.2	24.2	64.2



#16
 FREON 113
 Concen: 0.10 PPBv
 RT: 6.60 min Scan# 454
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

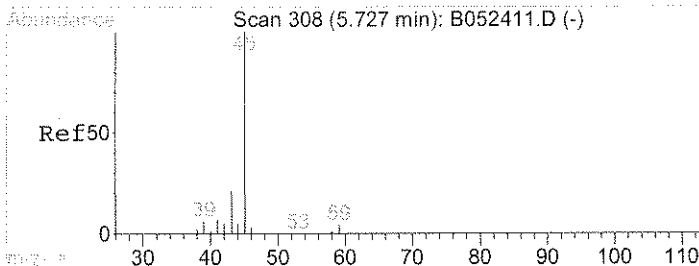
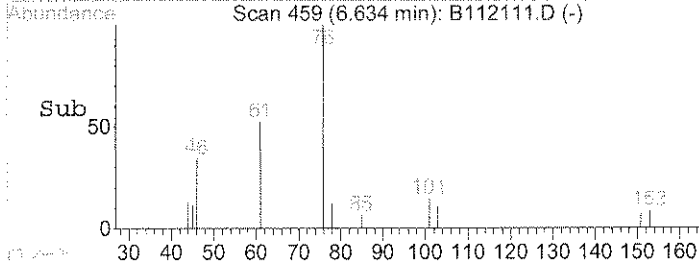
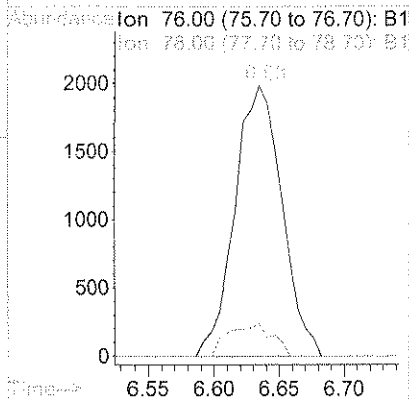
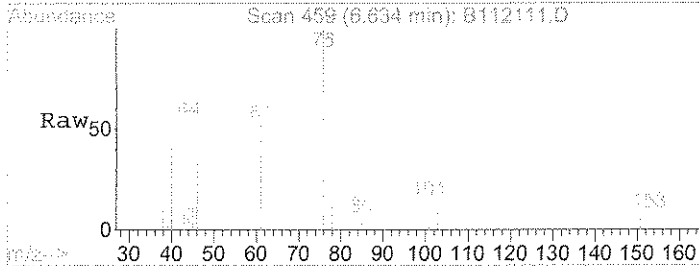
Tgt Ion	Resp	Lower	Upper
101	100		
151	54.2	44.3	84.3





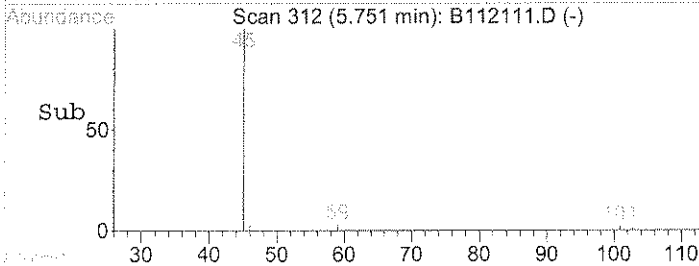
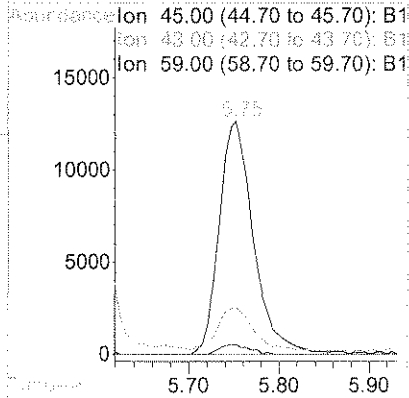
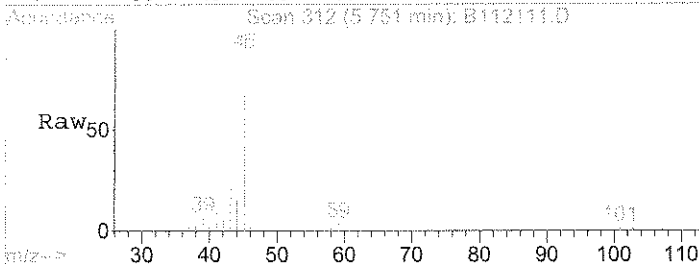
#17
 CARBON DISULFIDE
 Concen: 0.07 PPBv
 RT: 6.63 min Scan# 459
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

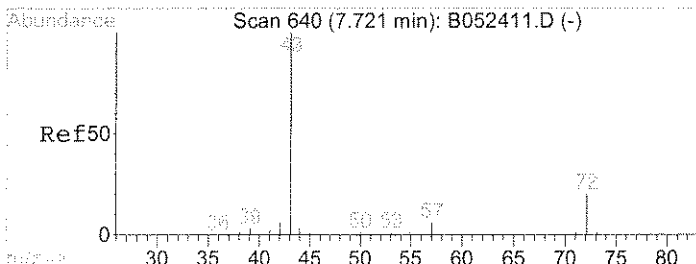
Tgt Ion	Resp	Lower	Upper
76	100		
78	11.1	0.0	29.7



#21
 IPA
 Concen: 1.01 PPBv
 RT: 5.75 min Scan# 312
 Delta R.T. 0.02 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

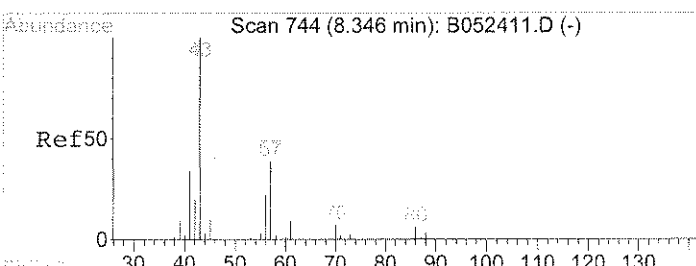
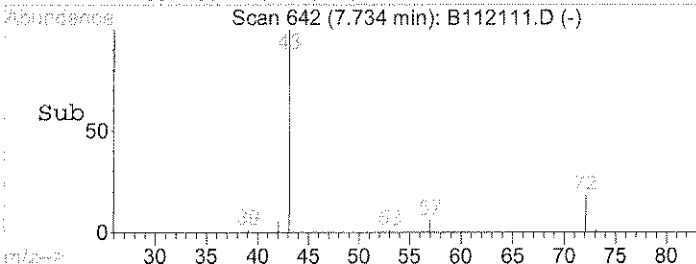
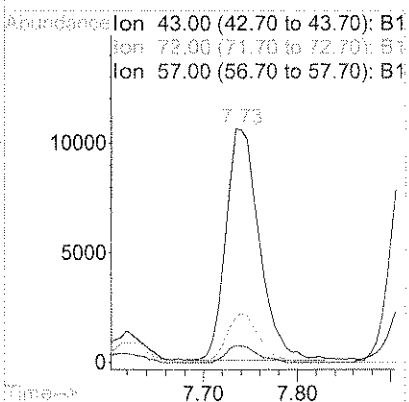
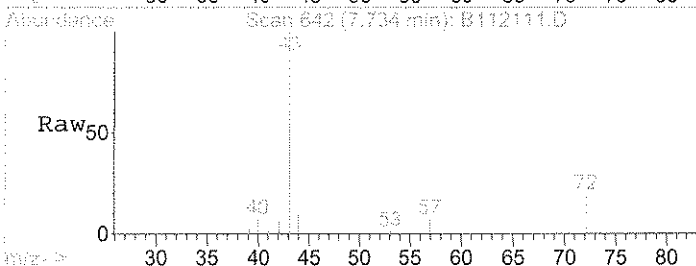
Tgt Ion	Resp	Lower	Upper
45	100		
43	19.7	2.5	42.5
59	3.6	0.0	23.4





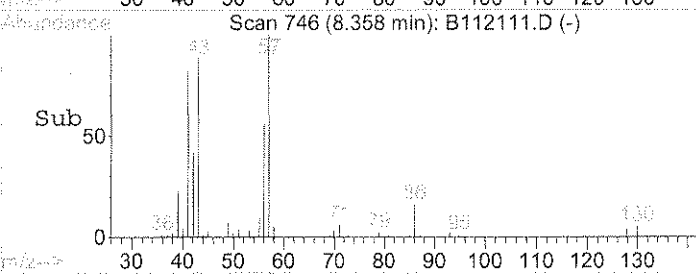
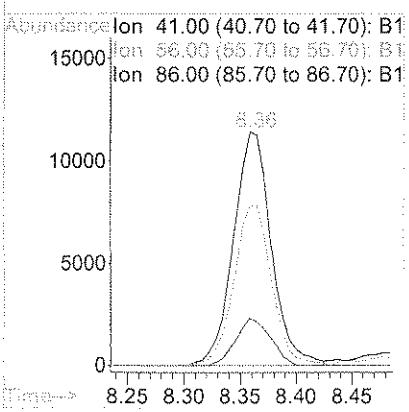
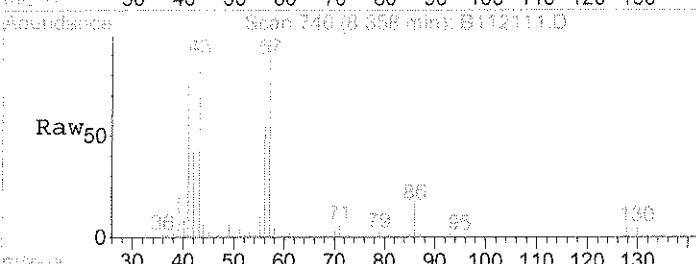
#22
 2-BUTANONE (MEK)
 Concen: 0.41 PPBv
 RT: 7.73 min Scan# 642
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

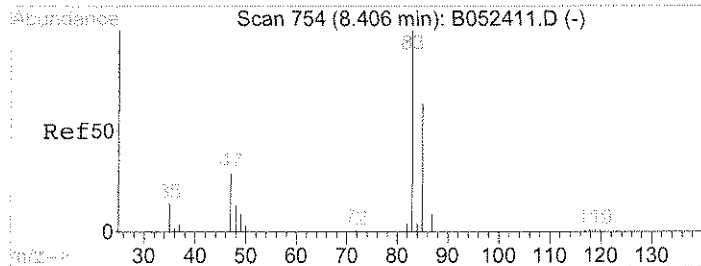
Tgt Ion	Resp	Lower	Upper
43	100		
72	20.4	0.0	35.7
57	6.8	0.0	25.8



#25
 HEXANE
 Concen: 0.93 PPBv
 RT: 8.36 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

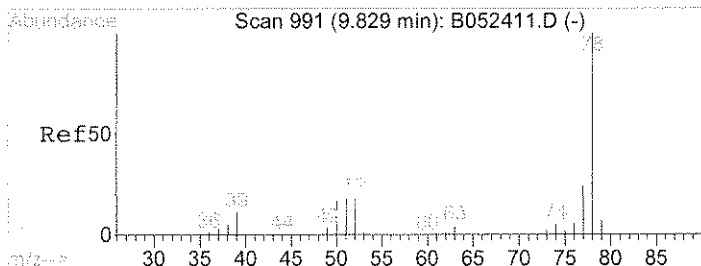
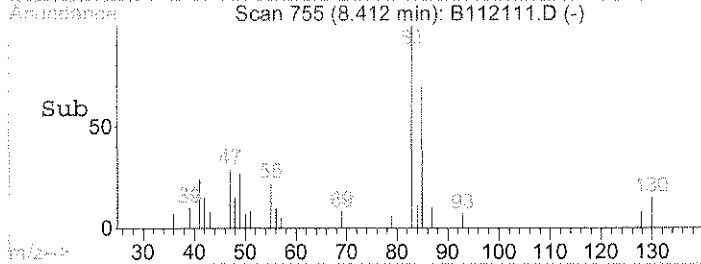
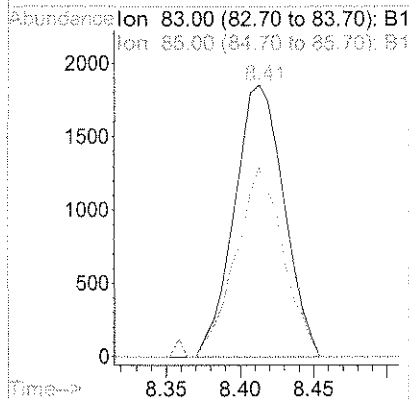
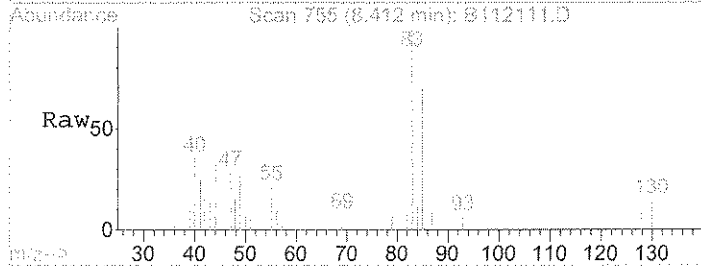
Tgt Ion	Resp	Lower	Upper
41	100		
56	67.8	50.0	90.0
86	18.4	0.0	36.6





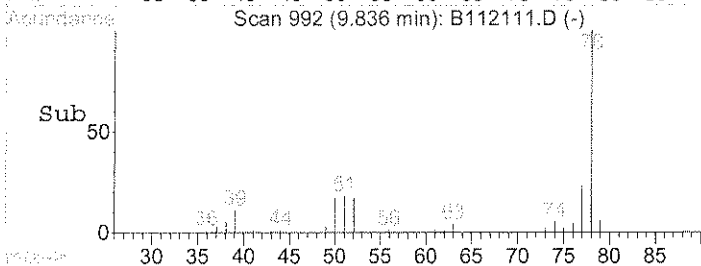
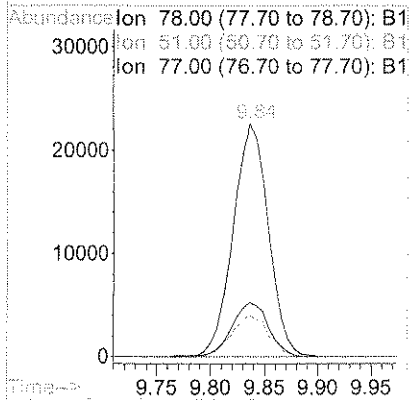
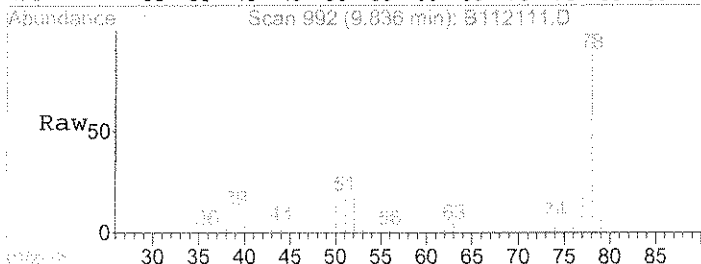
#27
 CHLOROFORM
 Concen: 0.09 PPBv
 RT: 8.41 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

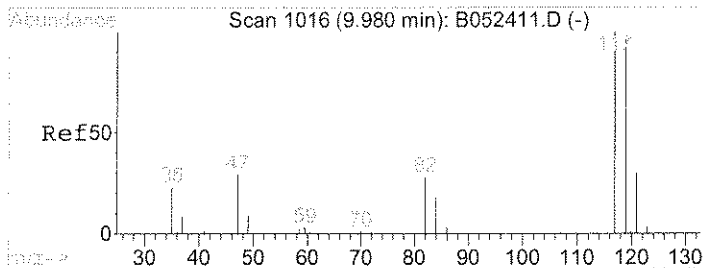
Tgt Ion	Resp	Lower	Upper
83	100		
85	66.5	44.9	84.9



#32
 BENZENE
 Concen: 0.83 PPBv
 RT: 9.84 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

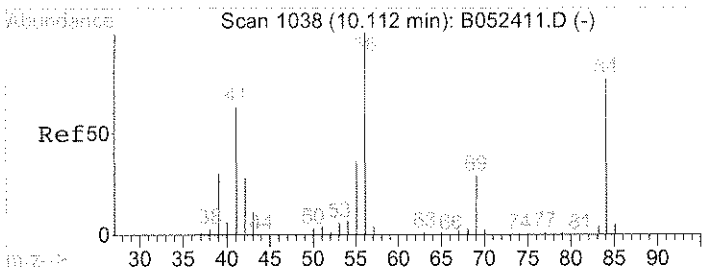
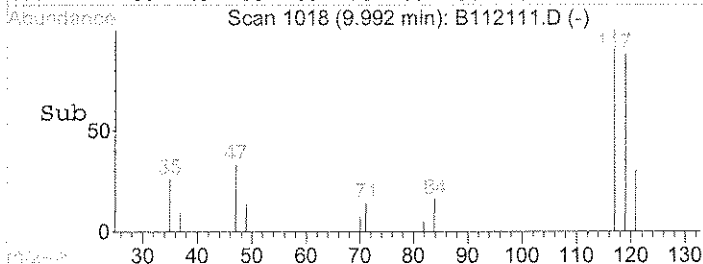
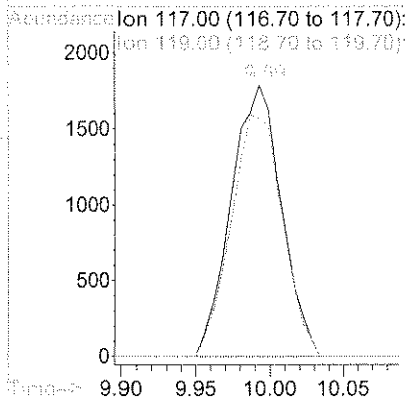
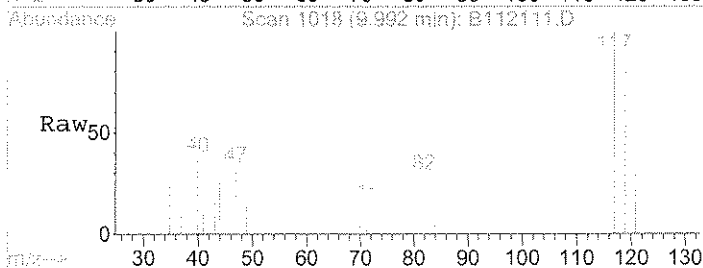
Tgt Ion	Resp	Lower	Upper
78	100		
51	18.6	0.0	36.4
77	24.1	4.7	44.7





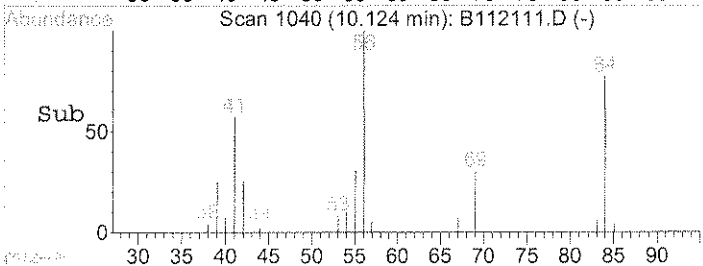
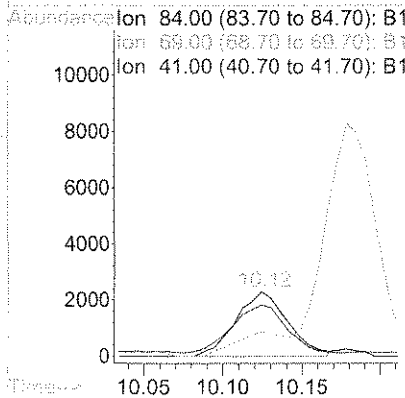
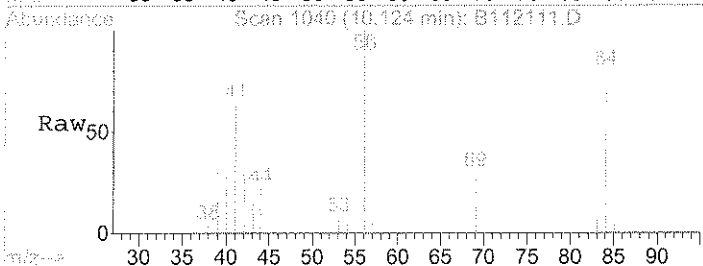
#33
 CARBON TETRACHLORIDE
 Concen: 0.11 PPBv
 RT: 9.99 min Scan# 1018
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

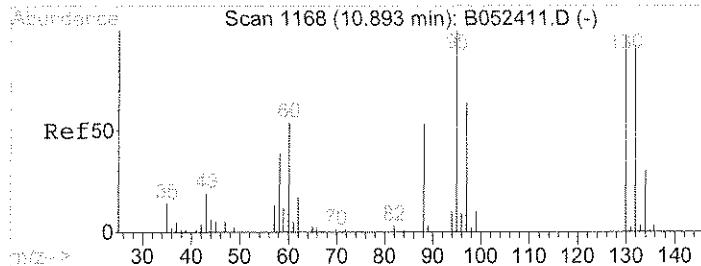
Tgt Ion: 117 Resp: 4199
 Ion Ratio Lower Upper
 117 100
 119 91.2 77.4 117.4



#34
 CYCLOHEXANE
 Concen: 0.20 PPBv
 RT: 10.12 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

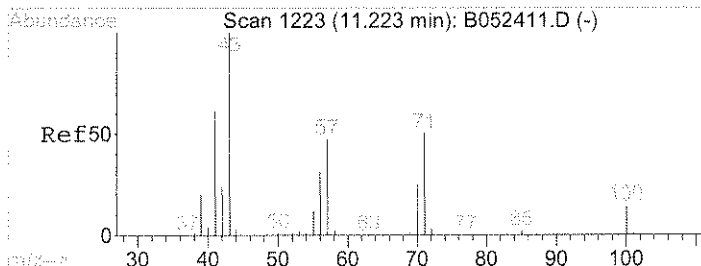
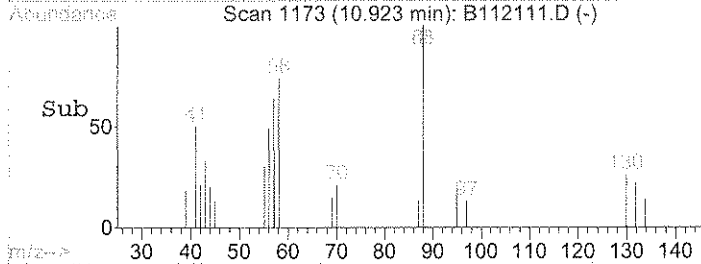
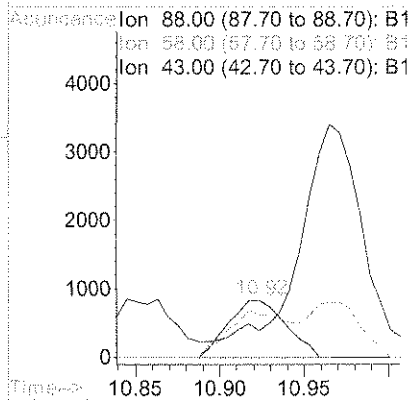
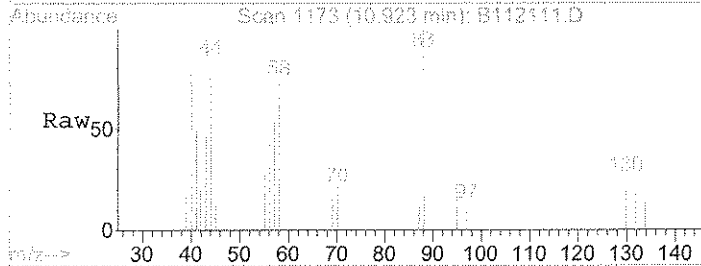
Tgt Ion: 84 Resp: 5221
 Ion Ratio Lower Upper
 84 100
 69 37.0 17.3 57.3
 41 81.2 48.0 88.0





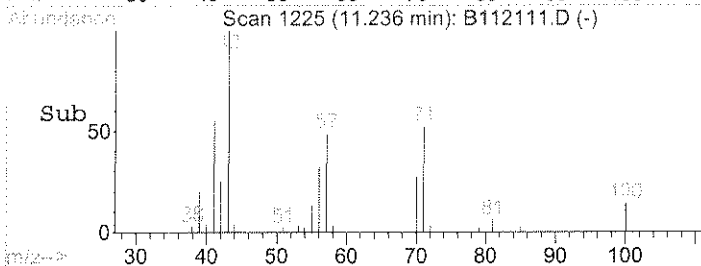
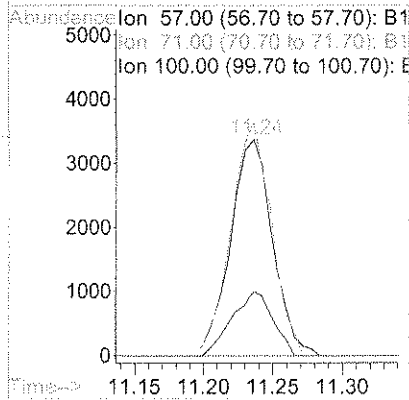
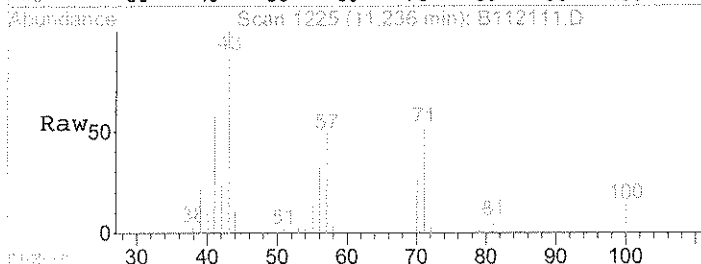
#38
 1,4-DIOXANE
 Concen: 0.15 PPBv
 RT: 10.92 min Scan# 1173
 Delta R.T. 0.03 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

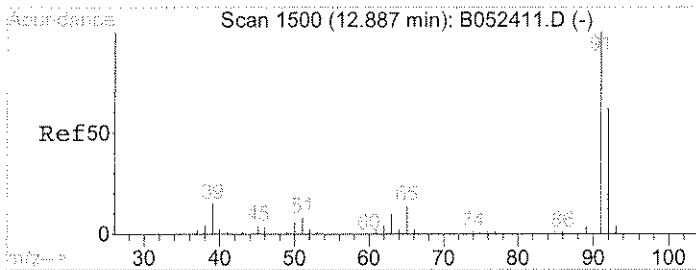
Tgt Ion	Resp	Lower	Upper
88	100		
58	87.8	60.9	100.9
43	124.9	18.5	58.5#



#40
 HEPTANE
 Concen: 0.37 PPBv
 RT: 11.24 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

Tgt Ion	Resp	Lower	Upper
57	100		
71	103.8	71.5	111.5
100	28.8	6.2	46.2

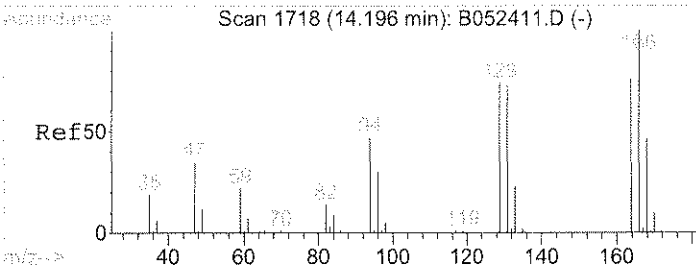
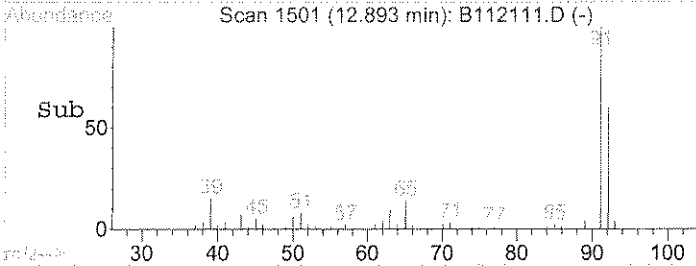
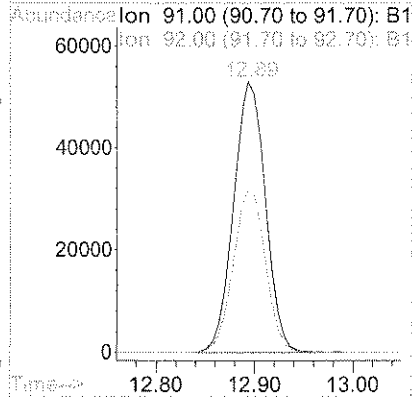
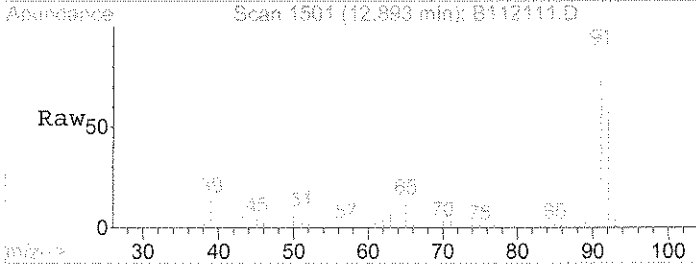




#46
 TOLUENE
 Concen: 1.89 PPBv
 RT: 12.89 min Scan# 1501
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

Tgt Ion: 91 Resp: 118545

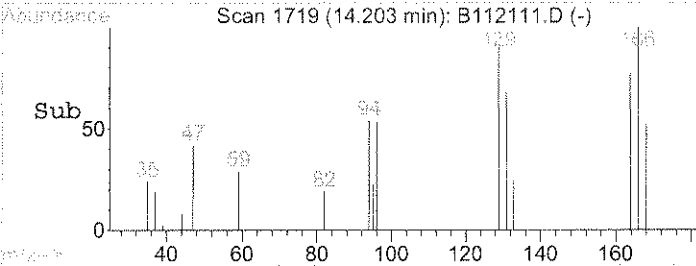
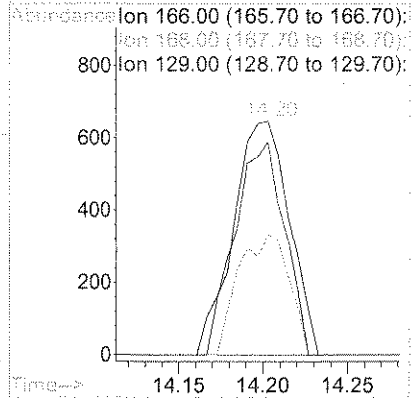
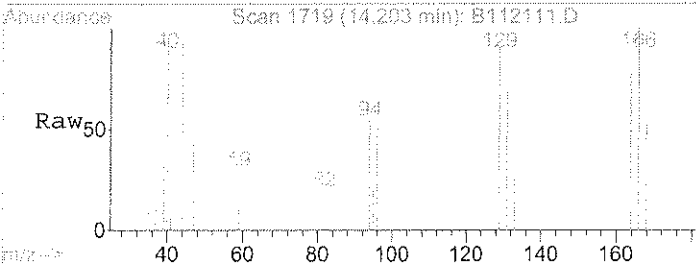
Ion	Ratio	Lower	Upper
91	100		
92	60.3	41.1	81.1

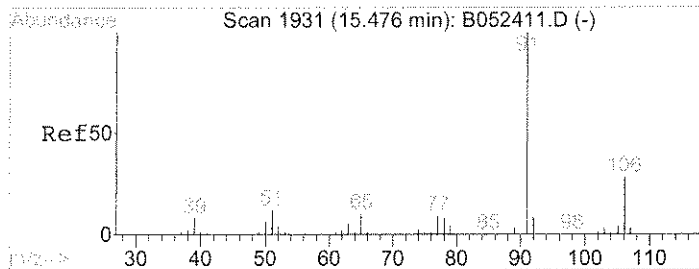


#50
 TETRACHLOROETHENE
 Concen: 0.05 PPBv
 RT: 14.20 min Scan# 1719
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

Tgt Ion: 166 Resp: 1482

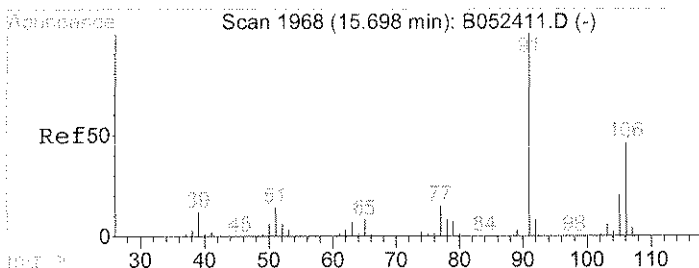
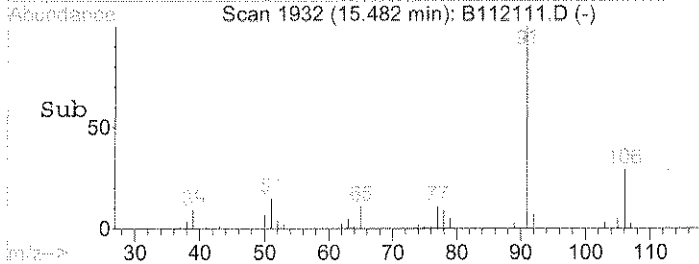
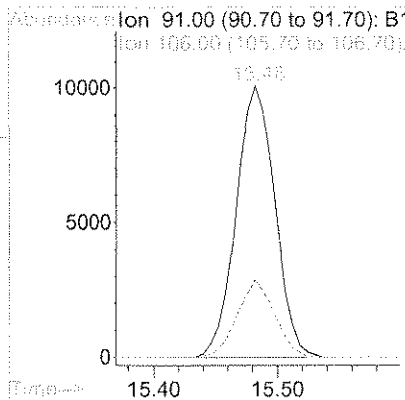
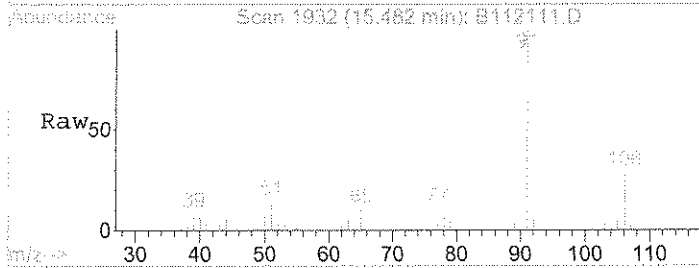
Ion	Ratio	Lower	Upper
166	100		
168	46.3	27.9	67.9
129	81.3	53.0	93.0





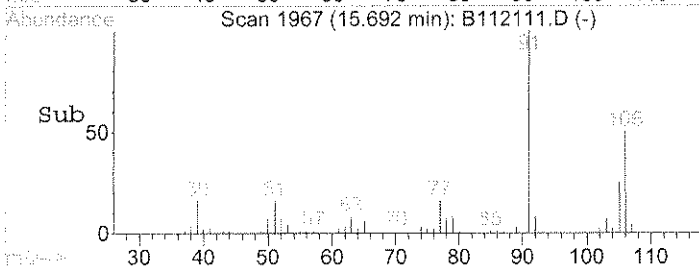
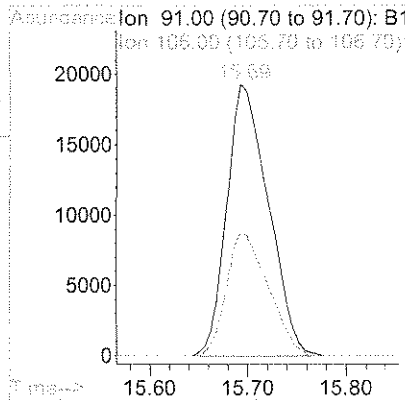
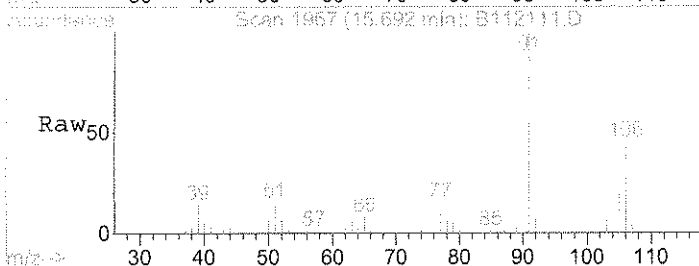
#52
 ETHYLBENZENE
 Concen: 0.27 PPBv
 RT: 15.48 min Scan# 1932
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

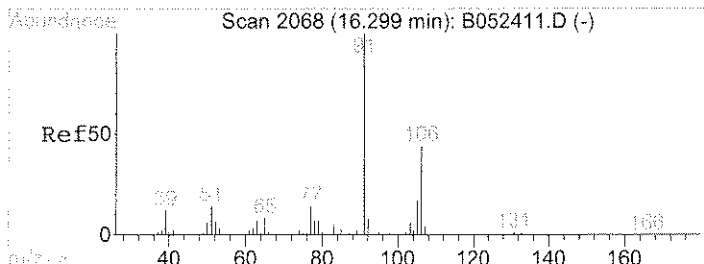
Tgt Ion: 91 Resp: 21818
 Ion Ratio Lower Upper
 91 100
 106 27.2 8.0 48.0



#53
 M/P-XYLENE
 Concen: 0.86 PPBv
 RT: 15.69 min Scan# 1967
 Delta R.T. -0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

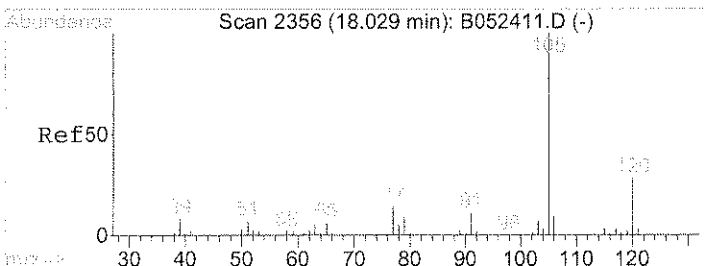
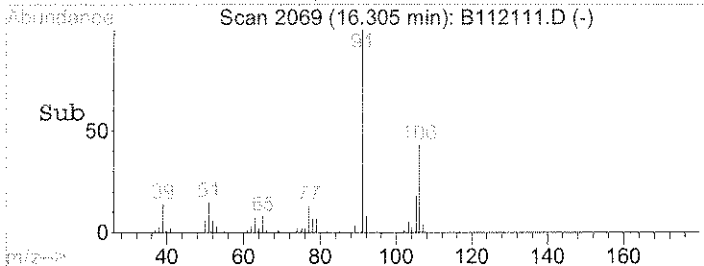
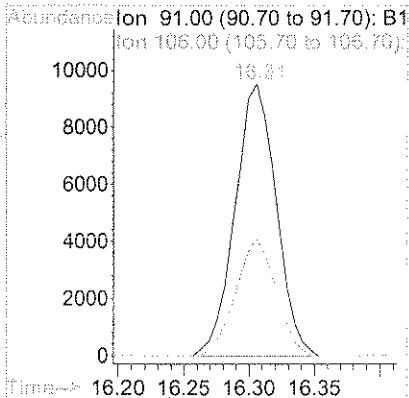
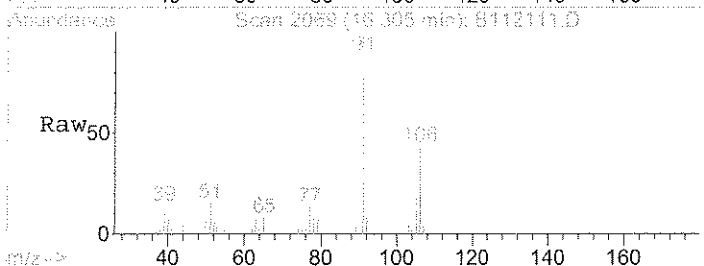
Tgt Ion: 91 Resp: 56834
 Ion Ratio Lower Upper
 91 100
 106 45.4 26.0 66.0





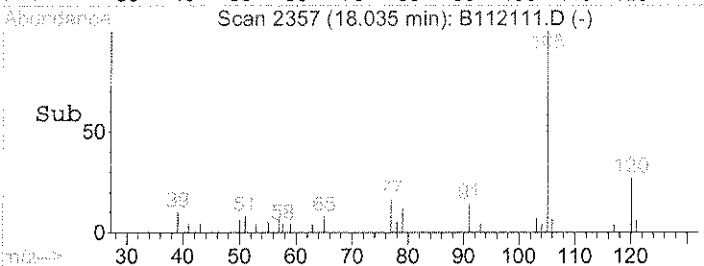
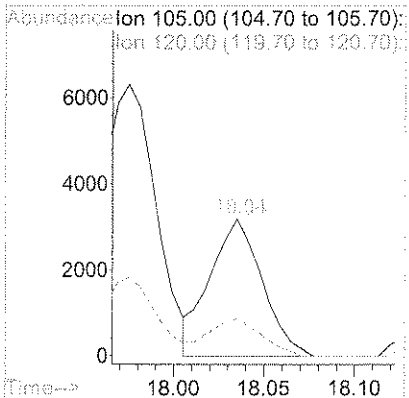
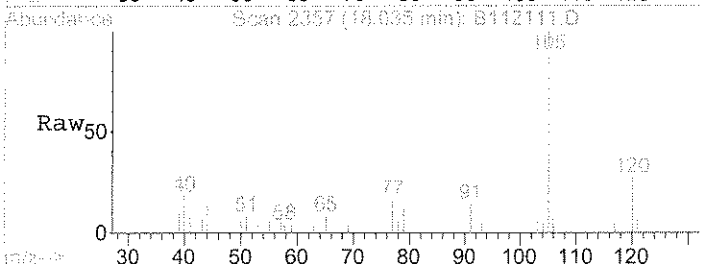
#56
 O-XYLENE
 Concen: 0.33 PPBv
 RT: 16.31 min Scan# 2069
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

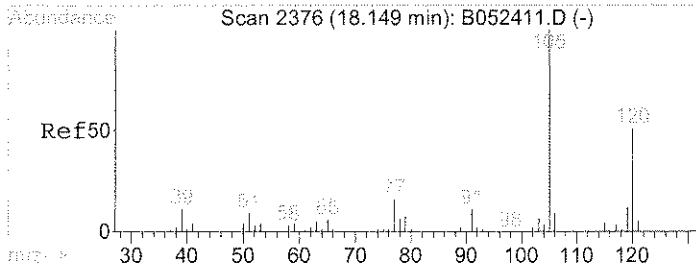
Tgt Ion: 91 Resp: 20834
 Ion Ratio Lower Upper
 91 100
 106 42.0 24.3 64.3



#59
 4-ETHYLTOLUENE
 Concen: 0.08 PPBv
 RT: 18.04 min Scan# 2357
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

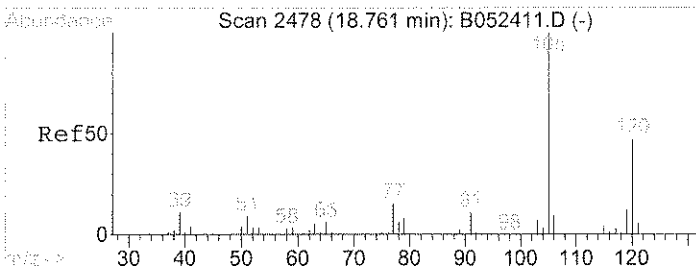
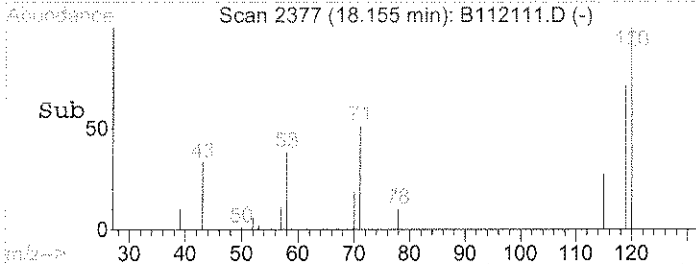
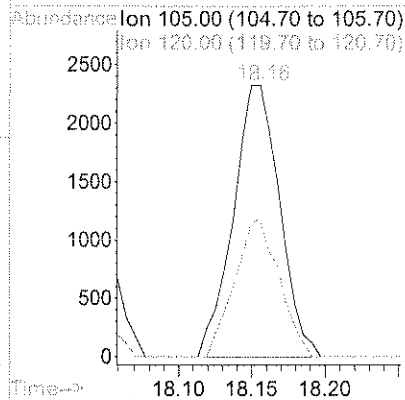
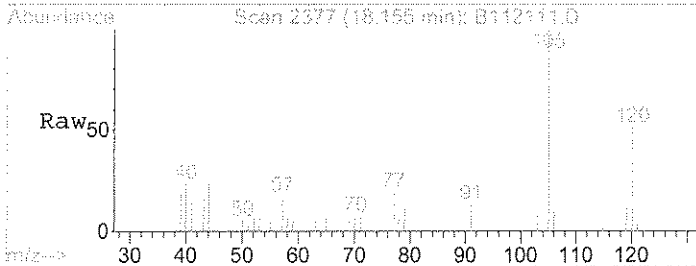
Tgt Ion: 105 Resp: 6450
 Ion Ratio Lower Upper
 105 100
 120 26.4 6.3 46.3





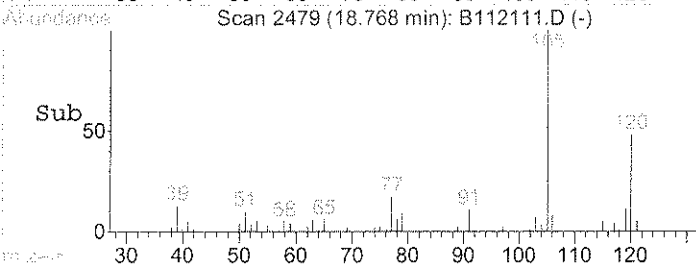
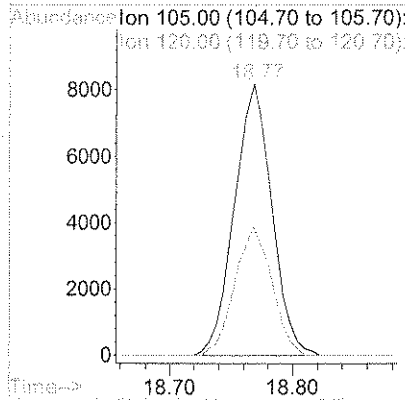
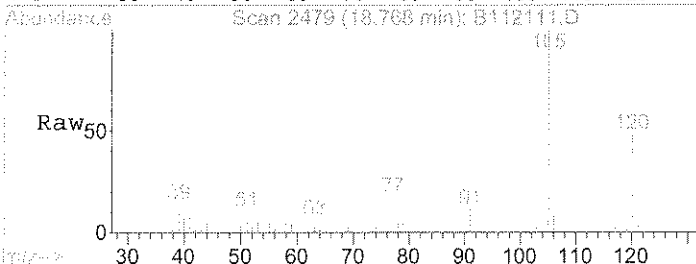
#60
 1,3,5-TRIMETHYLBENZENE
 Concen: 0.08 PPBv
 RT: 18.16 min Scan# 2377
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

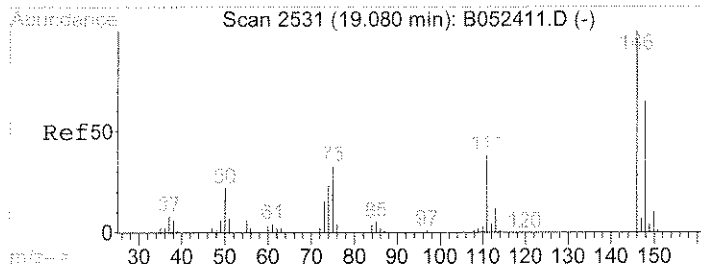
Tgt Ion:105 Resp: 5133
 Ion Ratio Lower Upper
 105 100
 120 48.6 28.5 68.5



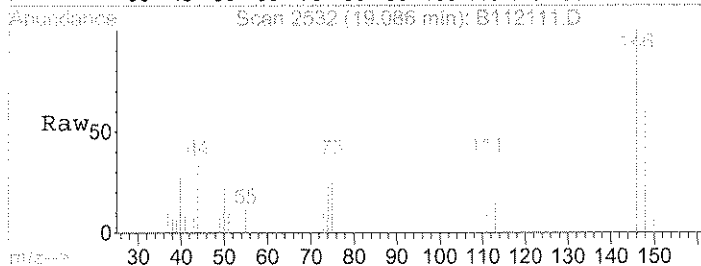
#61
 1,2,4-TRIMETHYLBENZENE
 Concen: 0.28 PPBv
 RT: 18.77 min Scan# 2479
 Delta R.T. 0.01 min
 Lab File: B112111.D
 Acq: 22 Nov 2010 2:45 am

Tgt Ion:105 Resp: 17268
 Ion Ratio Lower Upper
 105 100
 120 46.8 23.7 63.7

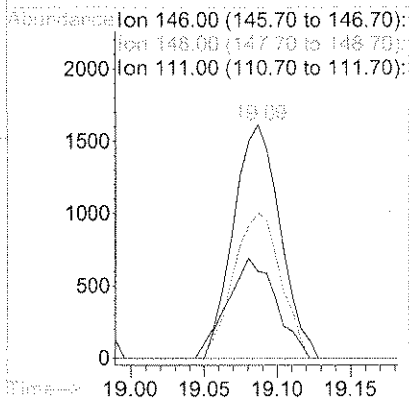
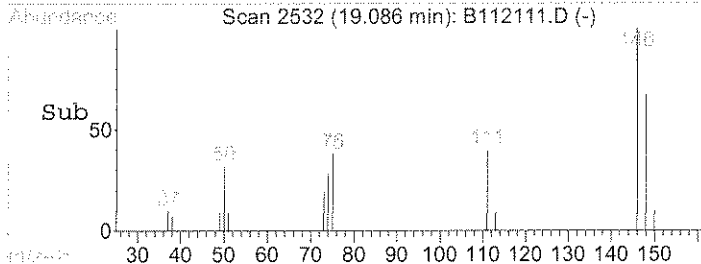




#64
1,4-DICHLOROBENZENE
Concen: 0.08 PPBv
RT: 19.09 min Scan# 2532
Delta R.T. 0.01 min
Lab File: B112111.D
Acq: 22 Nov 2010 2:45 am



Tgt Ion	Resp	Lower	Upper
146	100		
148	62.1	43.9	83.9
111	43.2	20.0	60.0



Data File : D:\HPCHEM\1\DATA\B112110\B112121.D
 Acq On : 22 Nov 2010 9:34 am
 Sample : 10K0616-01 2X
 Misc : 1.5,1,400,300,2X
 MS Integration Params: 11095INT.P
 Quant Time: Nov 23 15:06 2010

Vial: 26
 Operator: TPH
 Inst : SYSB
 Multiplr: 1.00

Quant Results File: TO052410.RES

Quant Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
 Title : QUANT FILE FOR TO-14/TO-15
 Last Update : Mon Jul 12 16:49:22 2010
 Response via : Initial Calibration
 DataAcq Meth : TO060909

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) BROMOCHLOROMETHANE (1)	8.29	49	316136	8.00	PPBv	0.01
30) 1,4-DIFLUOROBENZENE (1)	10.19	114	563248	8.00	PPBv	0.01
44) CHLOROBENZENE-D5 (1)	14.95	117	529757	8.00	PPBv	0.00

System Monitoring Compounds
 58) 4-BROMOFLUOROBENZENE (1) 16.90 174 267369 7.53 PPBv 0.00
 Spiked Amount 8.000 Range 70 - 130 Recovery = 94.13%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) DICHLORODIFLUOROMETHANE	4.16	85	11135	0.197	PPBv	98
4) CHLOROMETHANE	4.31	50	1386	0.065	PPBv	95
10) ACROLEIN	5.43	56	2446	0.313	PPBv	98
11) ACETONE	5.55	43	121510	3.712	PPBv	66
12) TRICHLOROFLUOROMETHANE	5.70	101	6071	0.123	PPBv	97
13) ETHANOL	5.12	45	21904	3.044	PPBv	95
15) METHYLENE CHLORIDE	6.35	49	5486	0.166	PPBv	99
17) CARBON DISULFIDE	6.64	76	114563	1.621	PPBv	98
21) IPA	5.76	45	6850	0.215	PPBv #	94
22) 2-BUTANONE (MEK)	7.74	43	23149	0.379	PPBv	89
25) HEXANE	8.36	41	39452	1.414	PPBv	97
27) CHLOROFORM	8.41	83	2695	0.058	PPBv	100
31) 1,1,1-TRICHLOROETHANE	9.39	97	49906	1.339	PPBv	97
32) BENZENE	9.84	78	22519	0.363	PPBv	97
34) CYCLOHEXANE	10.12	84	20415	0.789	PPBv	88
37) TRICHLOROETHENE	10.90	95	7059	0.273	PPBv	93
40) HEPTANE	11.24	57	19586	1.000	PPBv	87
46) TOLUENE	12.89	91	87563	1.381	PPBv	100
50) TETRACHLOROETHENE	14.20	166	2198	0.074	PPBv	97
52) ETHYLBENZENE	15.48	91	8860	0.108	PPBv	98
53) M/P-XYLENE	15.70	91	26397	0.393	PPBv	99
56) O-XYLENE	16.31	91	6118	0.096	PPBv	100

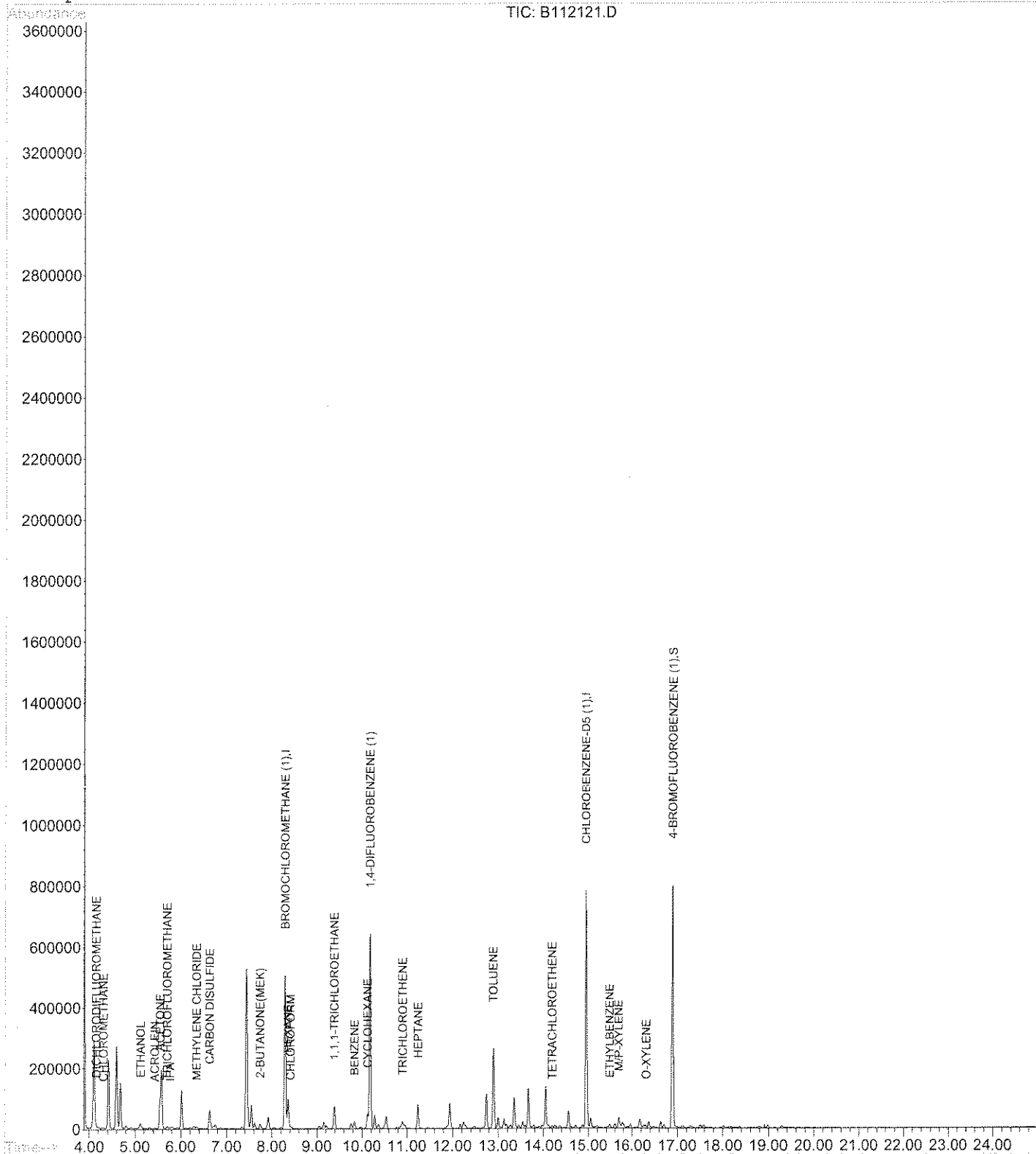
Select 191

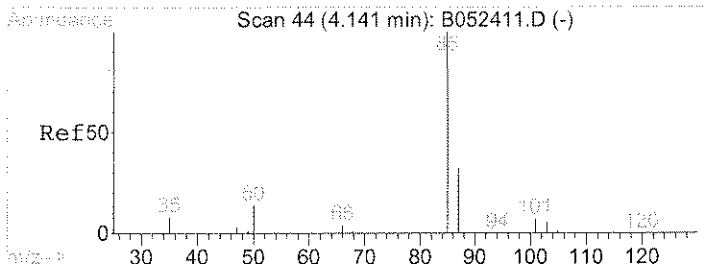
Data File : D:\HPCHEM\1\DATA\B112110\B112121.D
Acq On : 22 Nov 2010 9:34 am
Sample : 10K0616-01 2X
Misc : 1.5,1,400,300,2X
MS Integration Params: 11095INT.P
Quant Time: Nov 23 15:06 2010

Vial: 26
Operator: TPH
Inst : SYSB
Multiplr: 1.00

Quant Results File: TO052410.RES

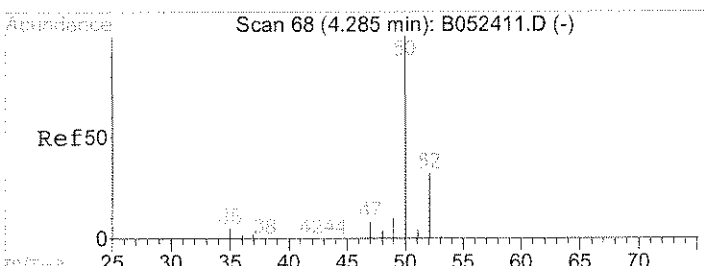
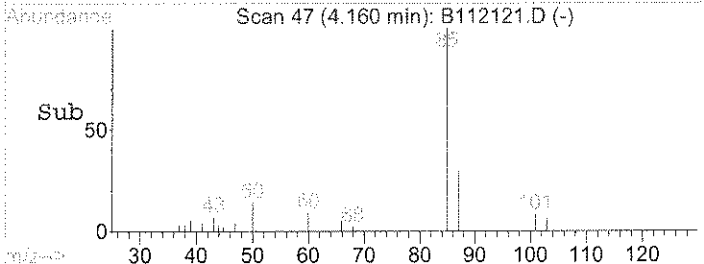
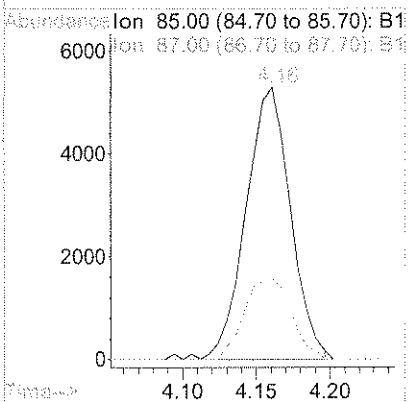
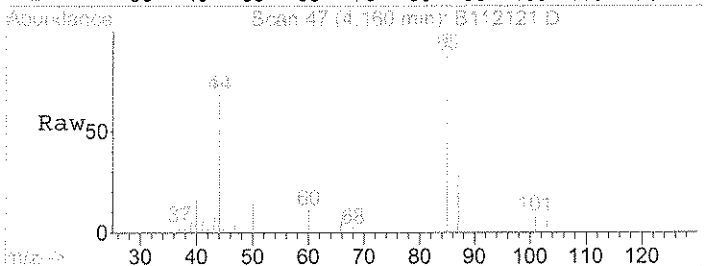
Method : D:\HPCHEM\1\METHODS\TO052410.M (RTE Integrator)
Title : QUANT FILE FOR TO-14/TO-15
Last Update : Mon Jul 12 16:49:22 2010
Response via : Initial Calibration





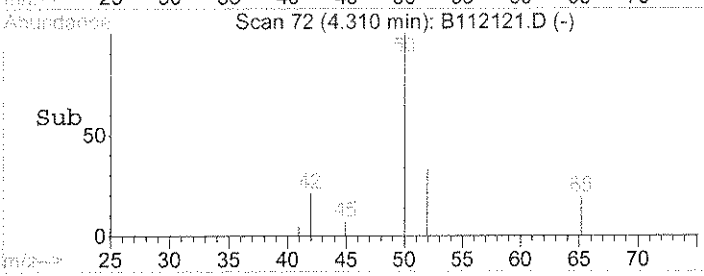
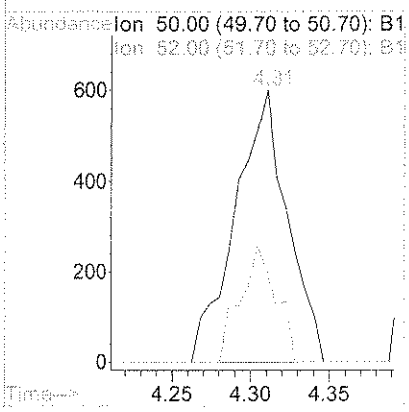
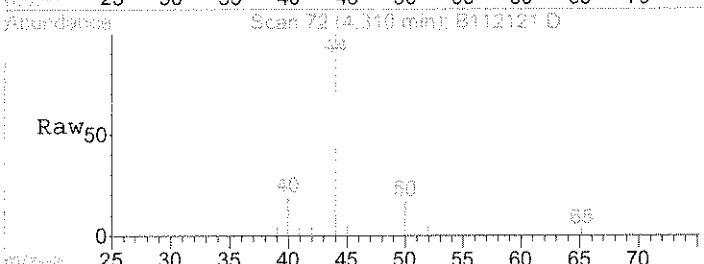
#3
 DICHLORODIFLUOROMETHANE
 Concen: 0.20 PPBv
 RT: 4.16 min Scan# 47
 Delta R.T. 0.02 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

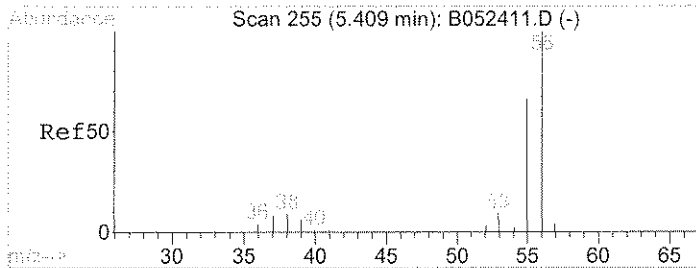
Tgt Ion	Resp	Lower	Upper
85	100		
87	31.1	12.3	52.3



#4
 CHLOROMETHANE
 Concen: 0.06 PPBv
 RT: 4.31 min Scan# 72
 Delta R.T. 0.03 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

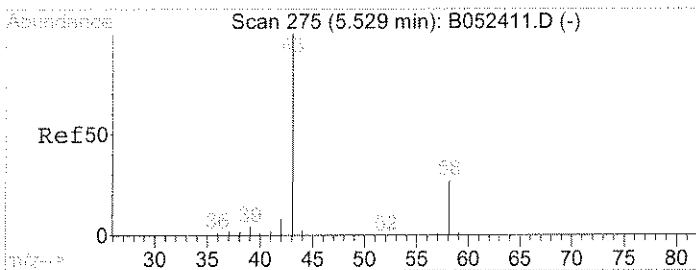
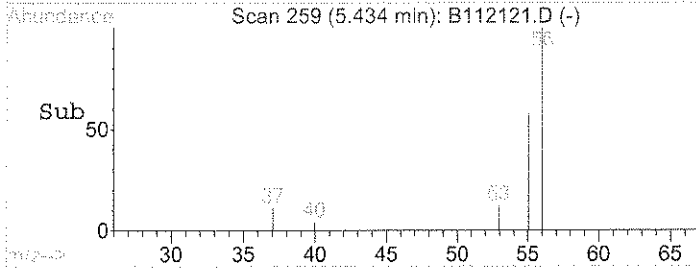
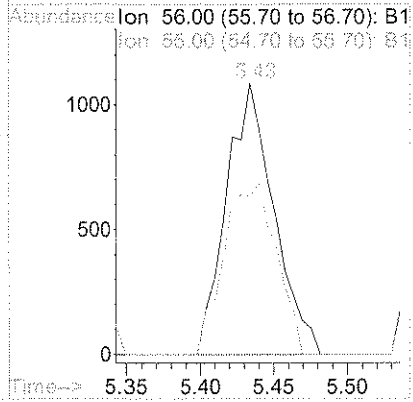
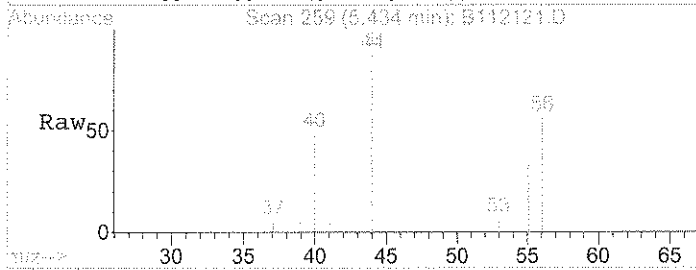
Tgt Ion	Resp	Lower	Upper
50	100		
52	29.4	12.0	52.0





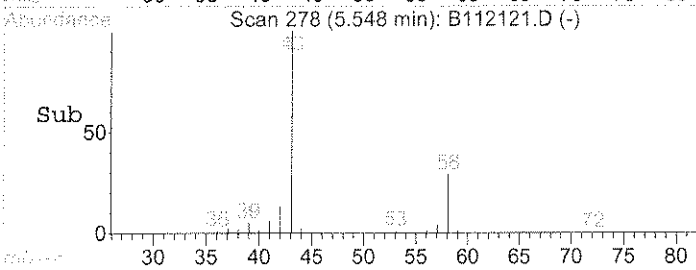
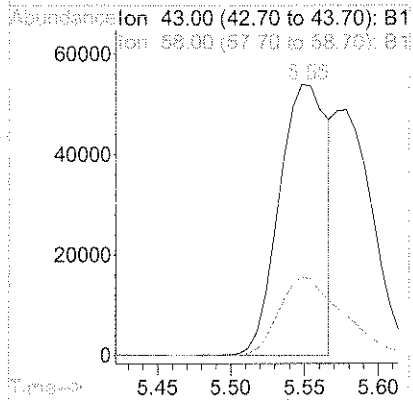
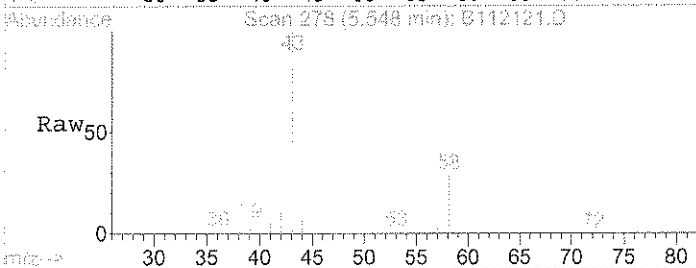
#10
 ACROLEIN
 Concen: 0.31 PPBv
 RT: 5.43 min Scan# 259
 Delta R.T. 0.03 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

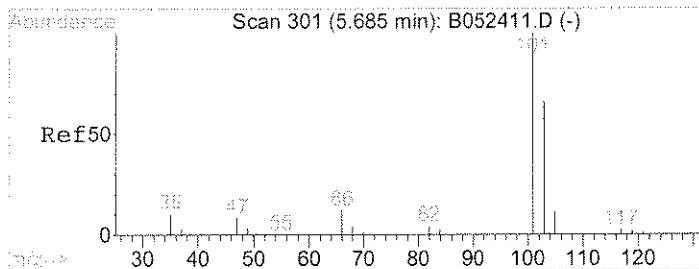
Tgt Ion	Resp	Lower	Upper
56	100		
55	69.7	51.2	91.2



#11
 ACETONE
 Concen: 3.71 PPBv
 RT: 5.55 min Scan# 278
 Delta R.T. 0.02 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

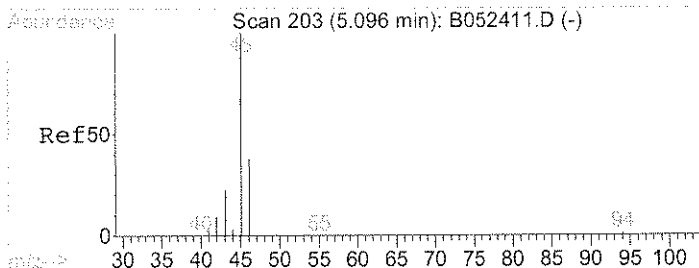
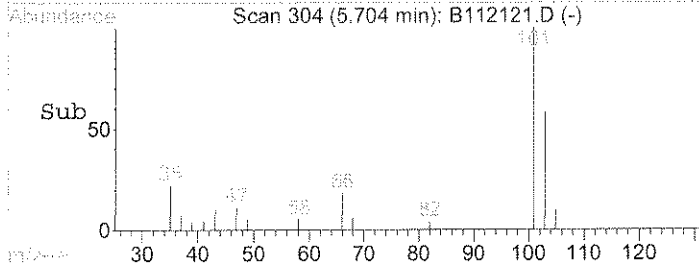
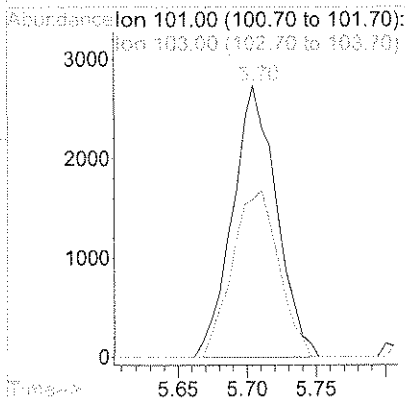
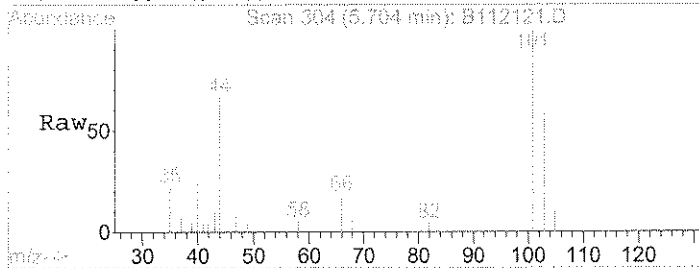
Tgt Ion	Resp	Lower	Upper
43	100		
58	38.6	2.1	42.1





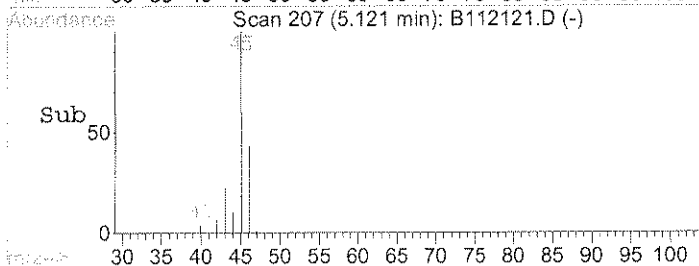
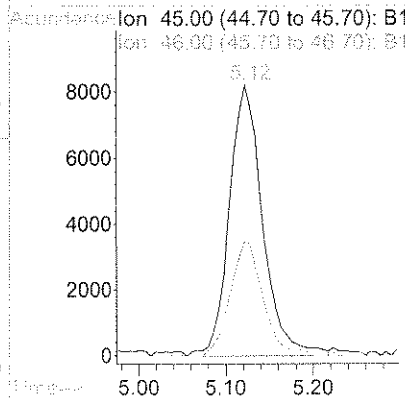
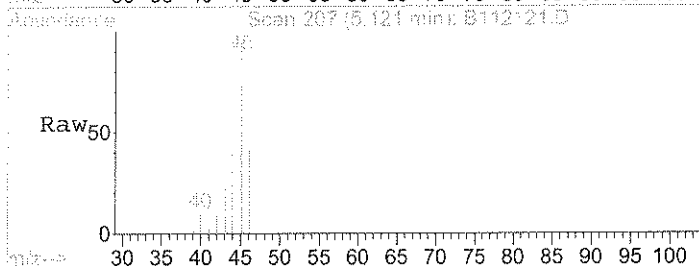
#12
 TRICHLOROFUOROMETHANE
 Concen: 0.12 PPBv
 RT: 5.70 min Scan# 304
 Delta R.T. 0.02 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

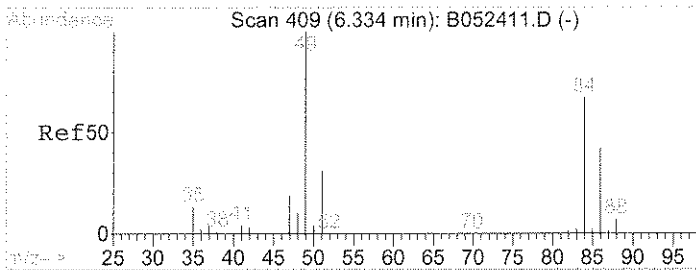
Tgt Ion	Resp	Lower	Upper
101	6071		
103	64.7	46.8	86.8



#13
 ETHANOL
 Concen: 3.04 PPBv
 RT: 5.12 min Scan# 207
 Delta R.T. 0.03 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

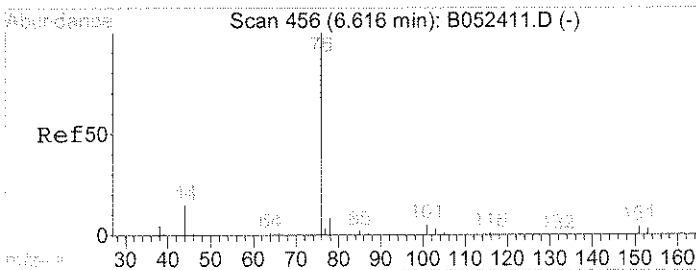
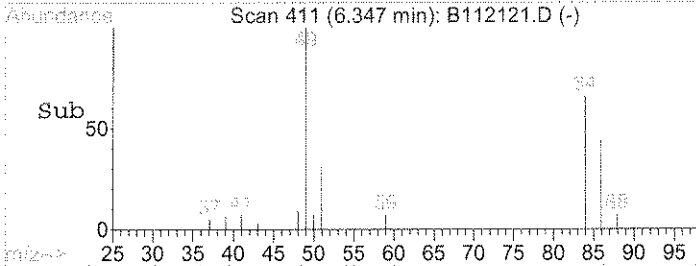
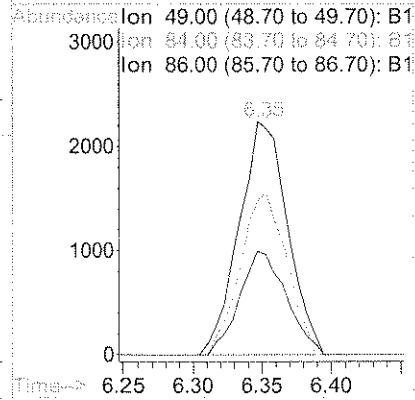
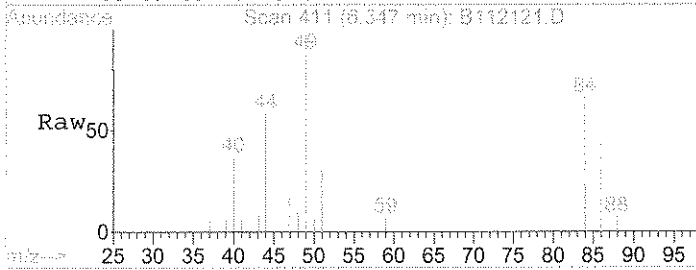
Tgt Ion	Resp	Lower	Upper
45	21904		
46	41.2	24.6	64.6





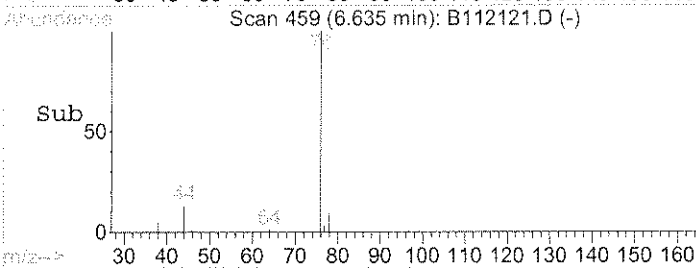
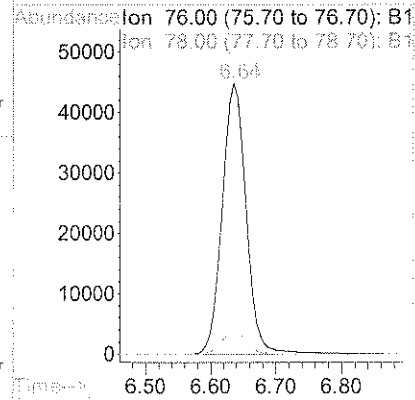
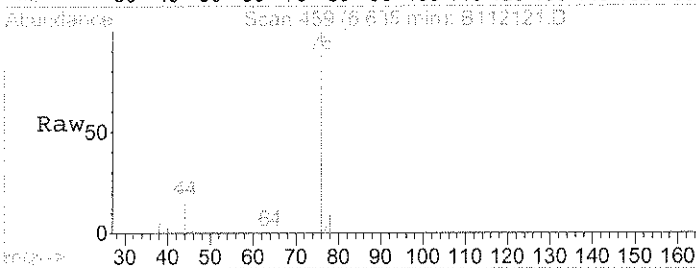
#15
 METHYLENE CHLORIDE
 Concen: 0.17 PPBv
 RT: 6.35 min Scan# 411
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

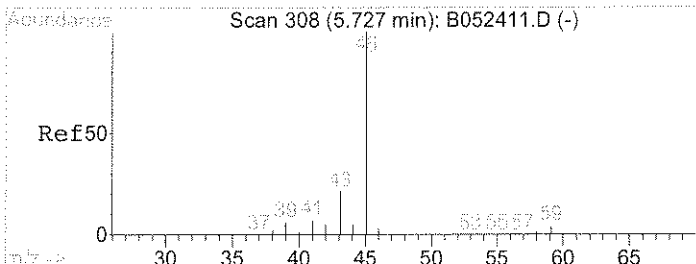
Tgt Ion	Resp	Lower	Upper
49	100		
84	66.2	46.8	86.8
86	42.8	24.2	64.2



#17
 CARBON DISULFIDE
 Concen: 1.62 PPBv
 RT: 6.64 min Scan# 459
 Delta R.T. 0.02 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

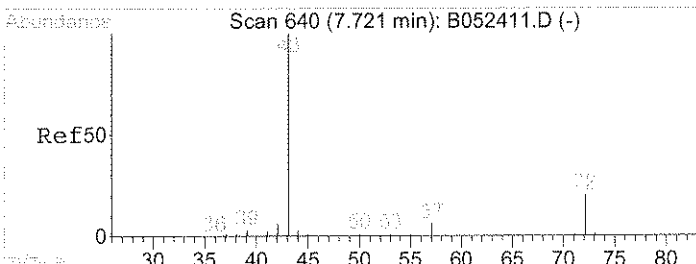
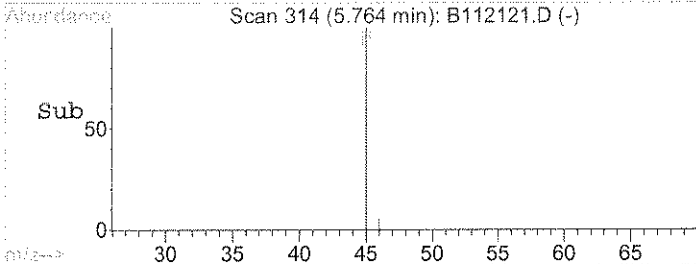
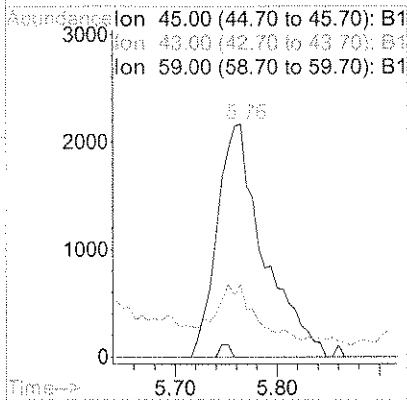
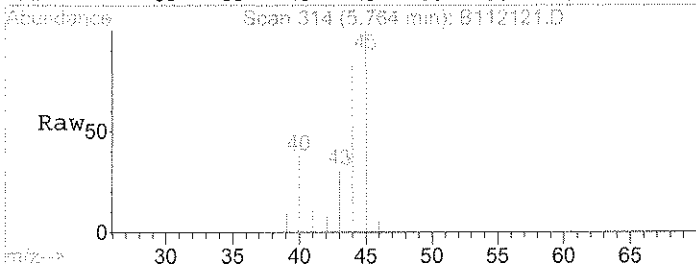
Tgt Ion	Resp	Lower	Upper
76	100		
78	8.9	0.0	29.7





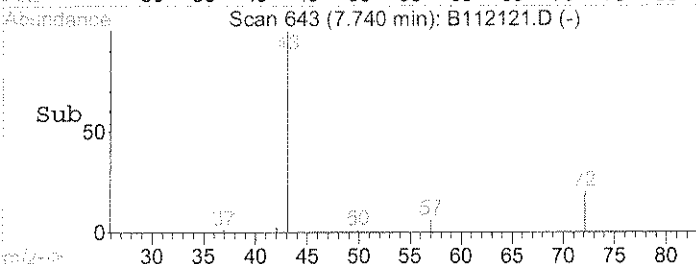
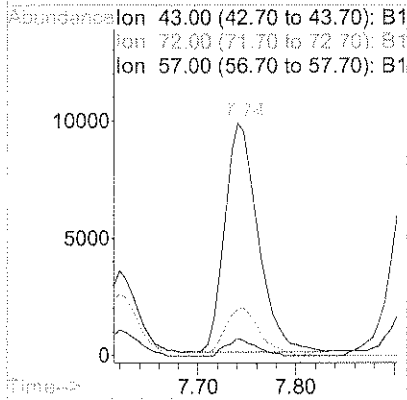
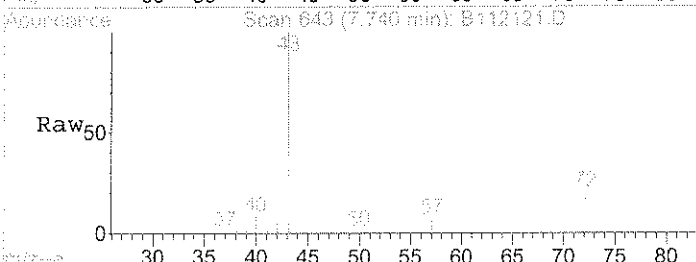
#21
 IPA
 Concen: 0.22 PPBv
 RT: 5.76 min Scan# 314
 Delta R.T. 0.04 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

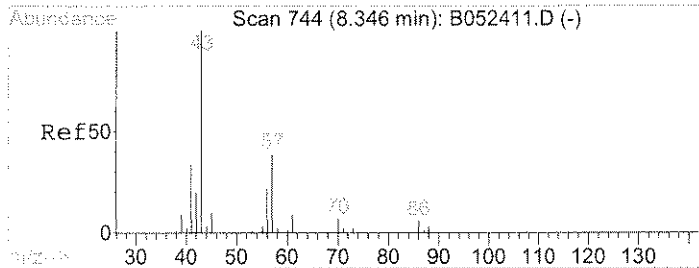
Tgt Ion	Resp	Lower	Upper
45	100		
43	20.1	2.5	42.5
59	0.0	0.0	23.4



#22
 2-BUTANONE (MEK)
 Concen: 0.38 PPBv
 RT: 7.74 min Scan# 643
 Delta R.T. 0.02 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

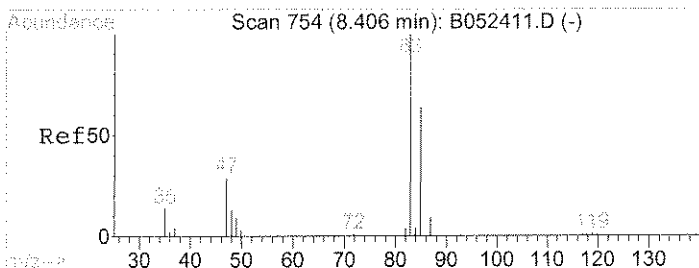
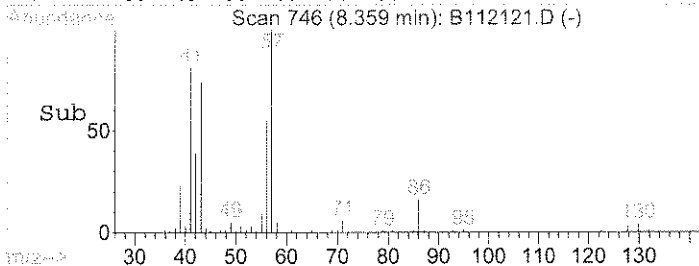
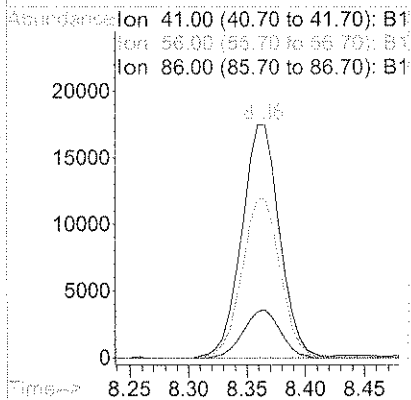
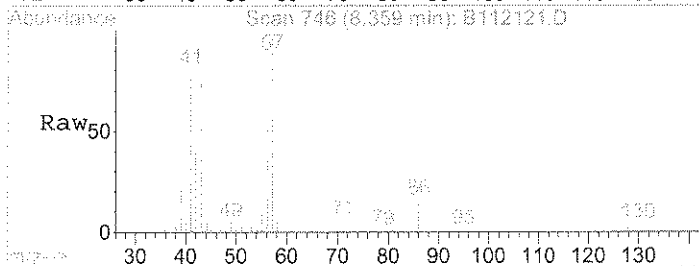
Tgt Ion	Resp	Lower	Upper
43	100		
72	21.4	0.0	35.7
57	6.7	0.0	25.8





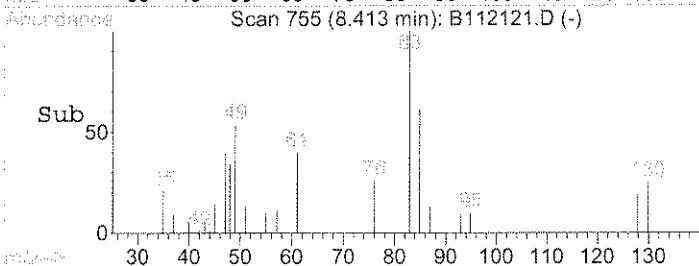
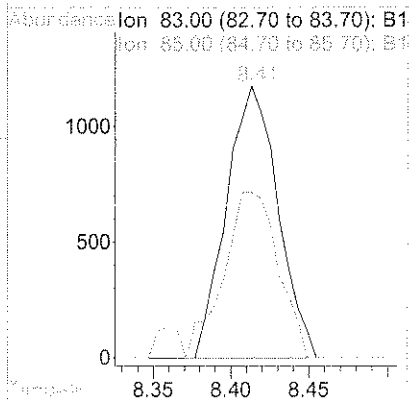
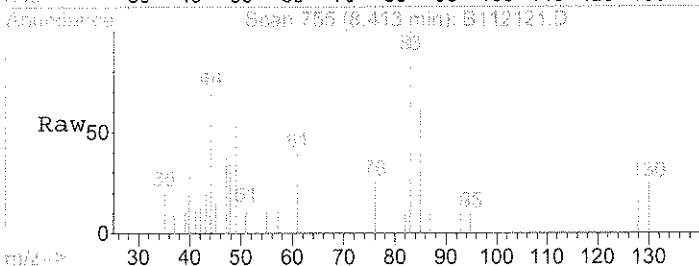
#25
 HEXANE
 Concen: 1.41 PPBv
 RT: 8.36 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

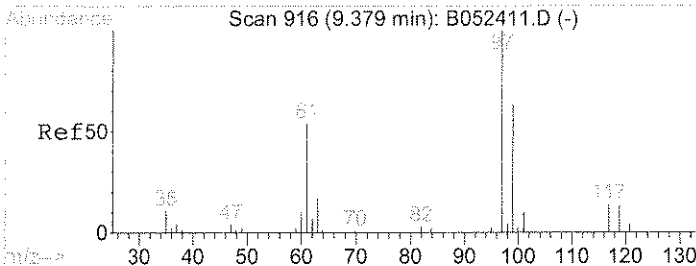
Tgt Ion	Resp	Lower	Upper
41	100		
56	68.4	50.0	90.0
86	20.0	0.0	36.6



#27
 CHLOROFORM
 Concen: 0.06 PPBv
 RT: 8.41 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

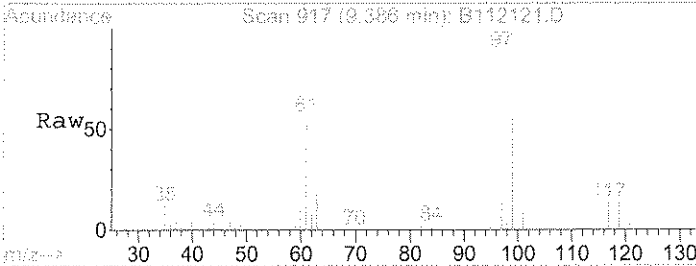
Tgt Ion	Resp	Lower	Upper
83	100		
85	64.8	44.9	84.9



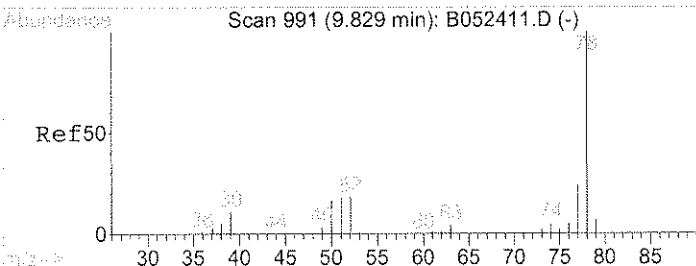
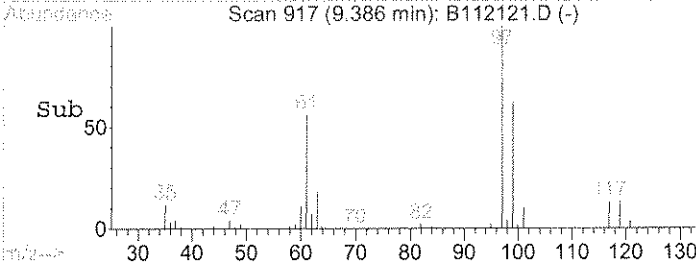
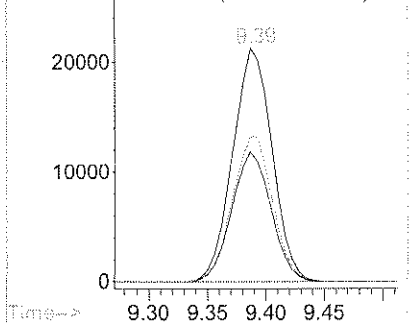


#31
 1,1,1-TRICHLOROETHANE
 Concen: 1.34 PPBv
 RT: 9.39 min Scan# 917
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
97	100		
99	63.3	44.7	84.7
61	55.4	32.7	72.7

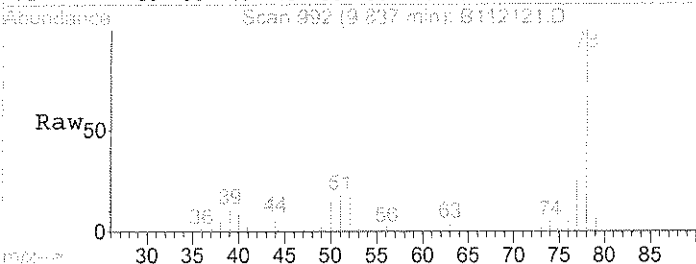


Abundance
 Ion 97.00 (96.70 to 97.70): B1
 Ion 99.00 (98.70 to 99.70): B1
 Ion 61.00 (60.70 to 61.70): B1

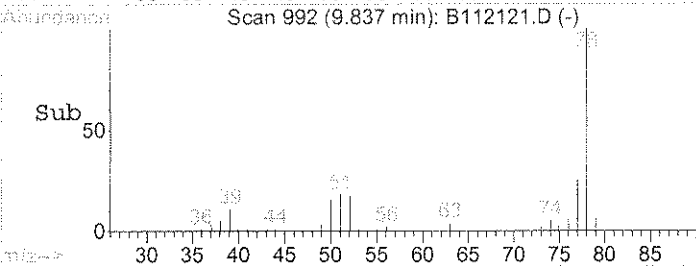
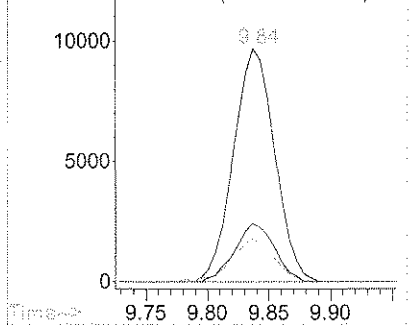


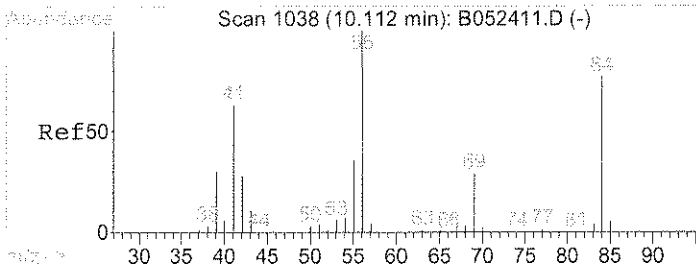
#32
 BENZENE
 Concen: 0.36 PPBv
 RT: 9.84 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
78	100		
51	18.7	0.0	36.4
77	24.1	4.7	44.7



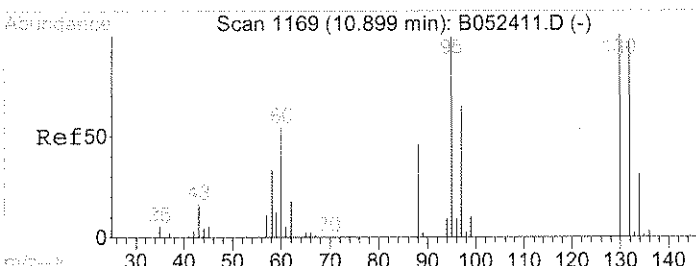
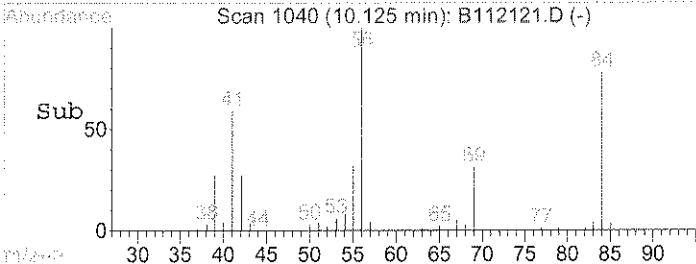
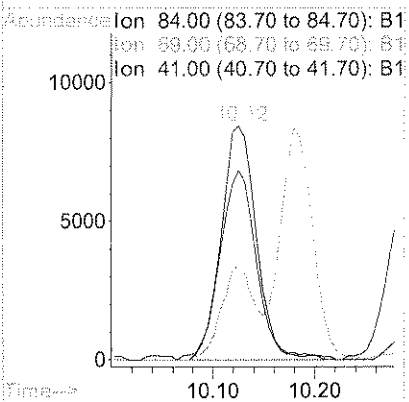
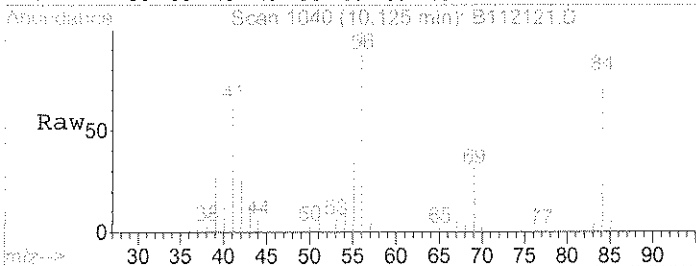
Abundance
 Ion 78.00 (77.70 to 78.70): B1
 Ion 51.00 (50.70 to 51.70): B1
 Ion 77.00 (76.70 to 77.70): B1





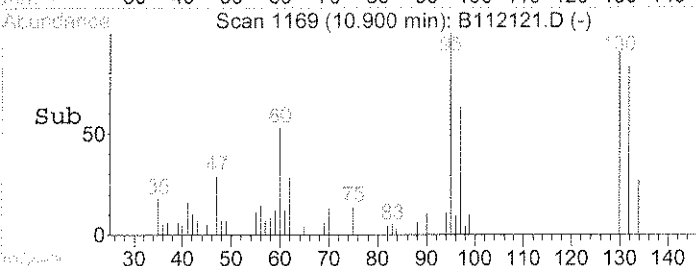
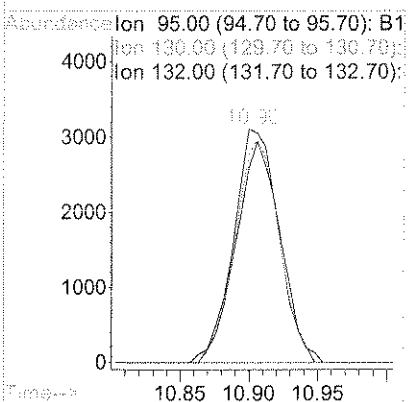
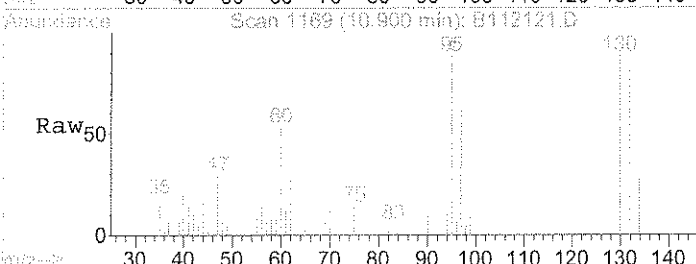
#34
 CYCLOHEXANE
 Concen: 0.79 PPBv
 RT: 10.12 min Scan# 1040
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

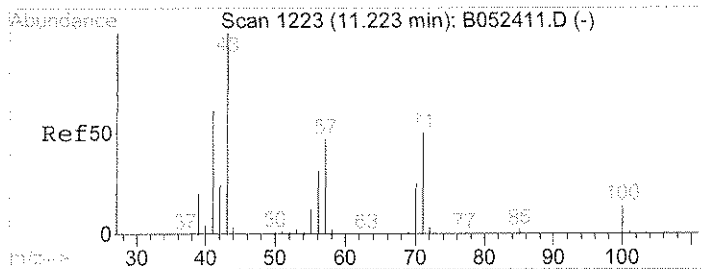
Tgt Ion	Resp	Lower	Upper
84	100		
69	37.8	17.3	57.3
41	82.4	48.0	88.0



#37
 TRICHLOROETHENE
 Concen: 0.27 PPBv
 RT: 10.90 min Scan# 1169
 Delta R.T. 0.00 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

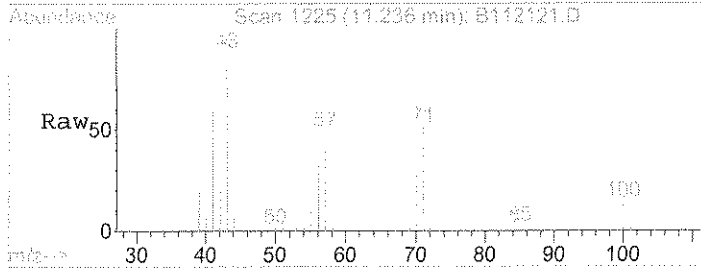
Tgt Ion	Resp	Lower	Upper
95	100		
130	94.5	65.4	105.4
132	93.5	70.0	110.0



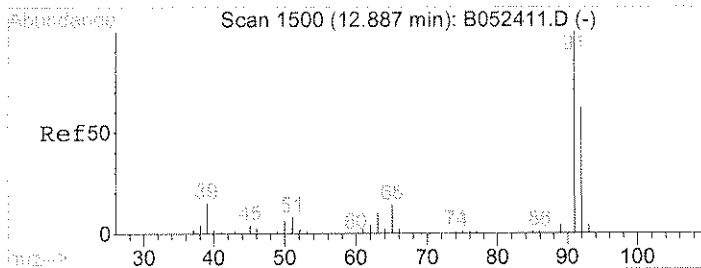
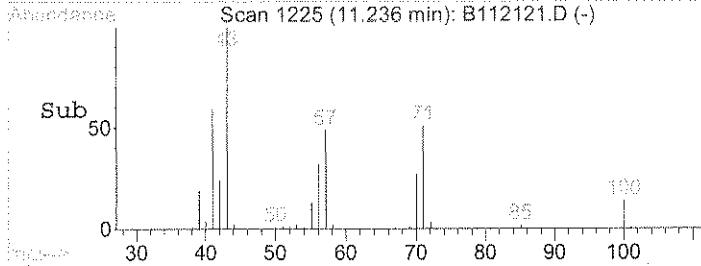
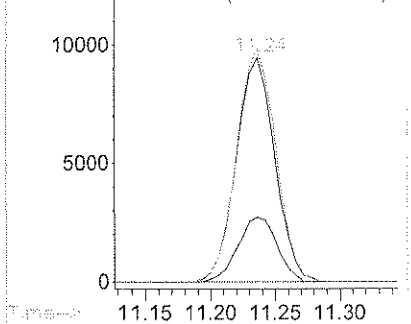


#40
 HEPTANE
 Concen: 1.00 PPBv
 RT: 11.24 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
57	100		
71	105.3	71.5	111.5
100	29.0	6.2	46.2

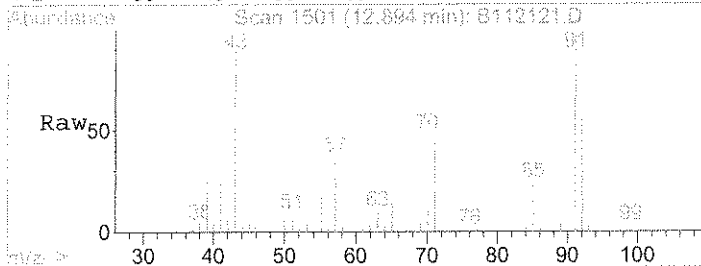


Abundance
 Ion 57.00 (56.70 to 57.70): B1
 Ion 71.00 (70.70 to 71.70): B1
 Ion 100.00 (99.70 to 100.70): E

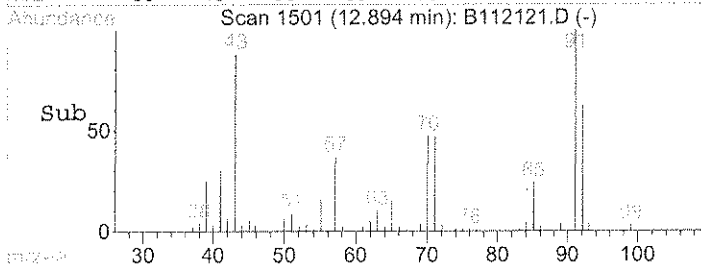
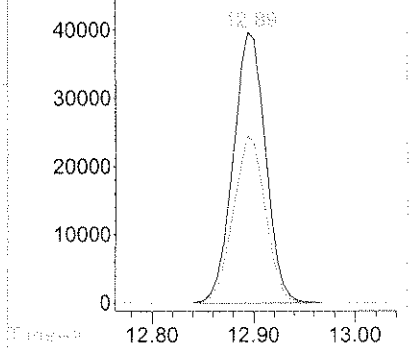


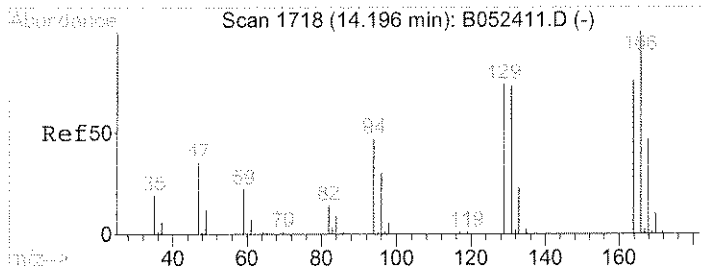
#46
 TOLUENE
 Concen: 1.38 PPBv
 RT: 12.89 min Scan# 1501
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
91	100		
92	60.8	41.1	81.1



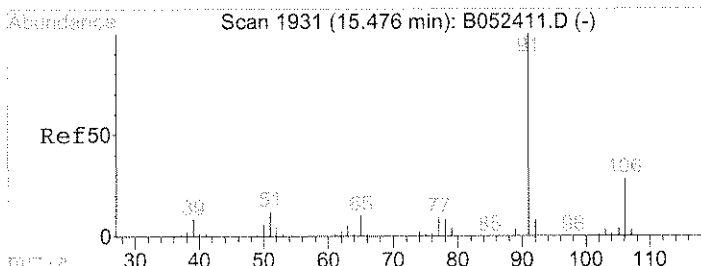
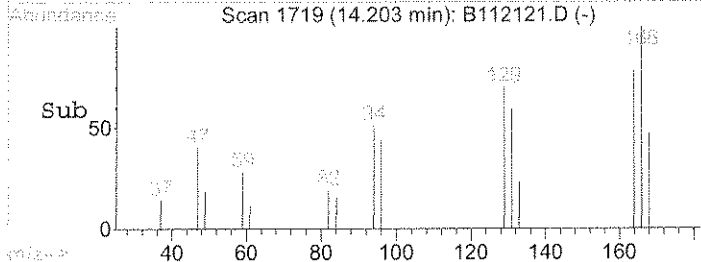
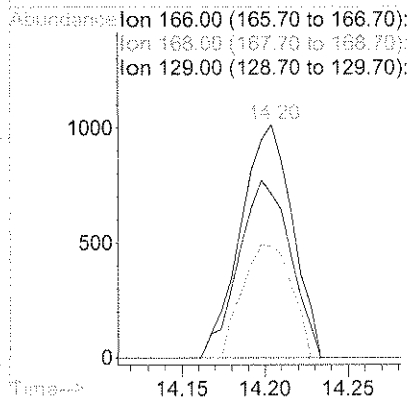
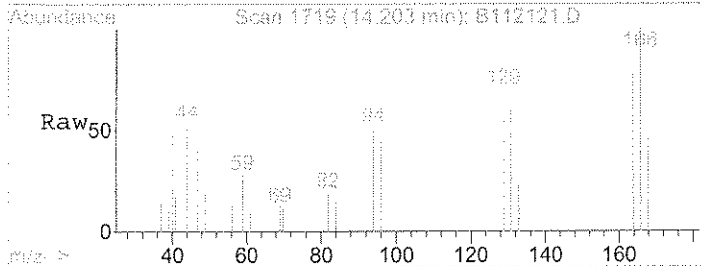
Abundance
 Ion 91.00 (90.70 to 91.70): B1
 Ion 92.00 (91.70 to 92.70): B1





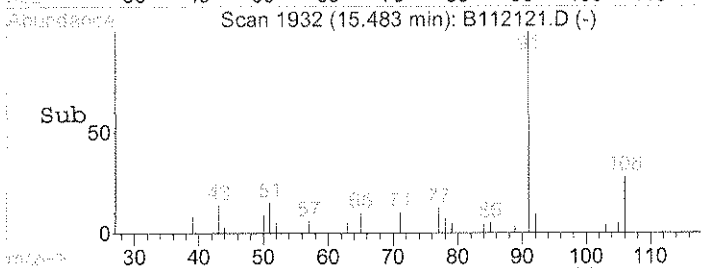
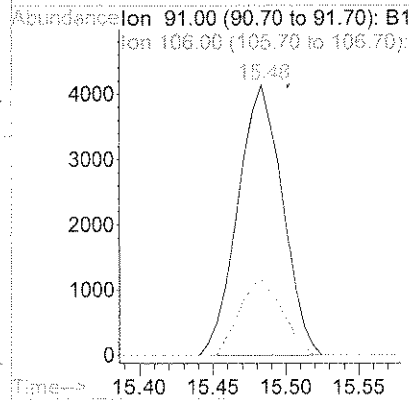
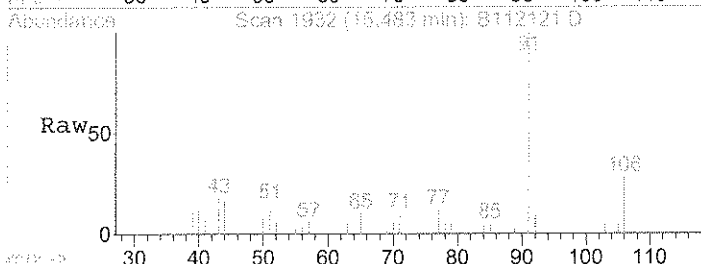
#50
 TETRACHLOROETHENE
 Concen: 0.07 PPBv
 RT: 14.20 min Scan# 1719
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

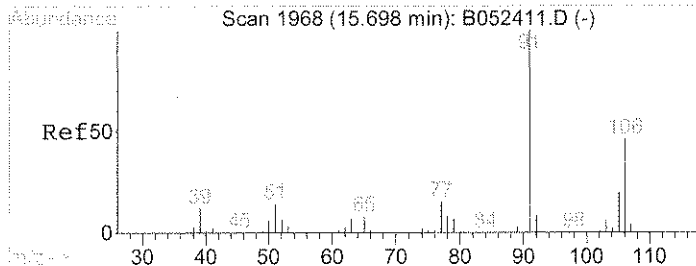
Tgt Ion	Resp	Lower	Upper
166	100		
168	46.0	27.9	67.9
129	76.2	53.0	93.0



#52
 ETHYLBENZENE
 Concen: 0.11 PPBv
 RT: 15.48 min Scan# 1932
 Delta R.T. 0.01 min
 Lab File: B112121.D
 Acq: 22 Nov 2010 9:34 am

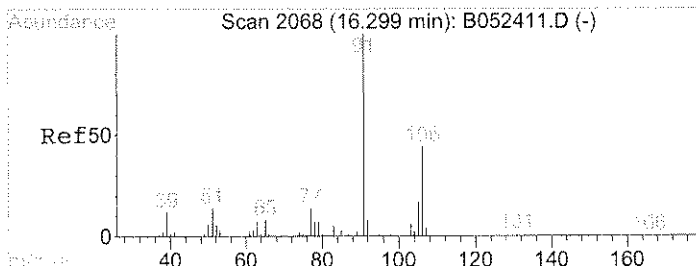
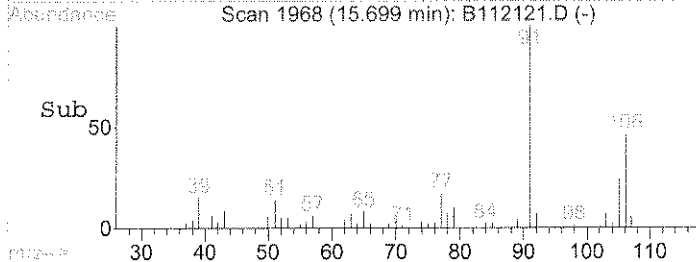
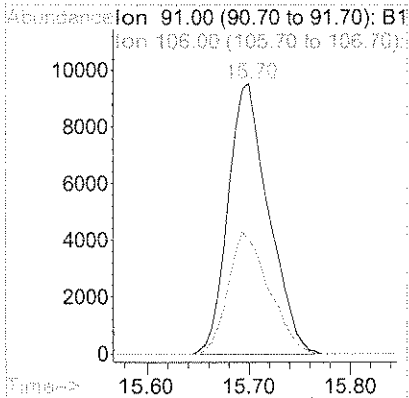
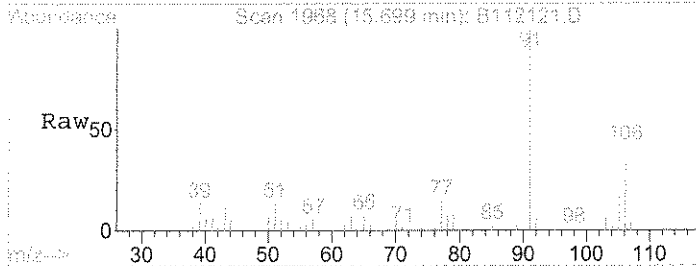
Tgt Ion	Resp	Lower	Upper
91	100		
106	26.7	8.0	48.0





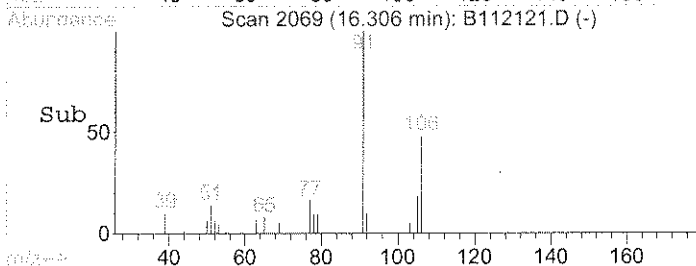
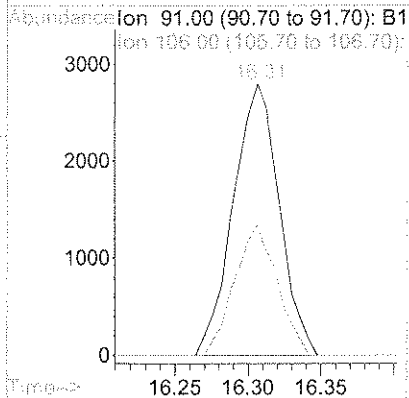
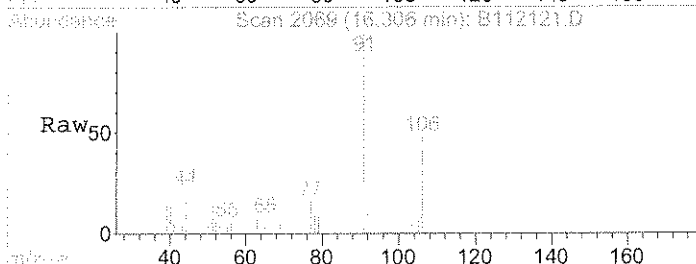
#53
M/P-XYLENE
Concen: 0.39 PPBv
RT: 15.70 min Scan# 1968
Delta R.T. 0.00 min
Lab File: B112121.D
Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	45.1	26.0	66.0



#56
O-XYLENE
Concen: 0.10 PPBv
RT: 16.31 min Scan# 2069
Delta R.T. 0.01 min
Lab File: B112121.D
Acq: 22 Nov 2010 9:34 am

Tgt Ion	Resp	Lower	Upper
91	100		
106	44.5	24.3	64.3





www.contestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

AIR ONLY RECEIPT CHECKLIST

CLIENT NAME: Macteckie, TN
RECEIVED BY: AP DATE: 11/17/10

- 1. Was chain of custody relinquished and signed? YES NO
- 2. Does Chain agree with samples? YES NO

If not, explain: Sample AA-06 on CoC says AA-07 on Summa Label. AP 11/17*

- 3. All Samples in good condition? YES NO

If not, explain:

4. Are there any on hold samples? YES NO STORED WHERE:

5. ARE THERE ANY RUSH OR SHORT HOLDING TIME SAMPLES? WHO WAS NOTIFIED? _____ DATE _____ TIME _____

Location where samples are stored:

Air Lab

Permission to sub-contract samples? Yes No (circle)
(Walk in clients only) if not already approved.
Client Signature _____

CONTAINERS SENT TO CON-TEST		# of containers
Summa cans	6L	5
Tedlar Bags		
Regulators	24hr	5
Restrictors		
Tubes		
Other	Tubing	~2ft

1 unused - 1024
1 unused - 3098

- 1. Was all media (used & unused) checked into the WASP asset management program?
- 2. Were all returned summa cans, restrictors, & regulators documented as returned in the AIR Lab Outbound excel sheet?
- 3. Were the Lab ID's documented in the Air Lab Outbound excel sheet?
- 4. Was the job documented in the Air Lab Log-In Access Database?

Laboratory comments:
* Client called to confirm sample label discrepancy AA-06 correct ID.



Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

AIR SAMPLE COLLECTION OF CUSTODY RECORD
 39 SPRUCE ST
 EAST LONGMEADOW, MA 01028

Page 1 of 1

Company Name: MURE Engineering
 Address: 9725 Loggill Road
Knoxville, TN 37932
 Attention: Joe DeLoth Bridge
 Project Location: Rochester, NY
 Sampled By: Brandon Samson

Telephone: 865-588-8541
 Project #: 302052006
 Client PO #: Contact J. DeLoth

DATA DELIVERY (check one):
 FAX EMAIL WEBSITE CLIENT
 Fax #:
 Email:

Format: EXCEL PDF GIS KEY OTHER

ONLY USE WHEN USING PUMPS

Date	Start Time	Stop Time	Total Minutes Sampled	Flow Rate M ³ /Min or L/Min	Volume Liters or M ³	Matrix Code*
11-15-10	11-16-10	11-16-10	1769		66	SG
11-15-10	11-16-10	11-16-10				IA
11-15-10	11-16-10	11-16-10				IA
11-15-10	11-16-10	11-16-10				AA

Proposal Provided? (For Billing purposes)
 yes no

Field ID	Sample Description	Media	Lab #	Start Date/Time	Stop Date/Time	Total Minutes Sampled	Flow Rate	Volume	Matrix Code*
SB-08		S	-01	11-15-10	11-16-10	1769		66	SG
IA-08		S	02	11-15-10	11-16-10				IA
IA-08DUP		S	03	11-15-10	11-16-10				IA
AA-06		S	04	11-15-10	11-16-10				AA

Laboratory Comments:
5 Day TAT 12:00 PM
FEDEX-615 12:00 PM
AA-06 was AA-07 on Lab Tag.
Collected AA-06 in the corrected
 CLIENT COMMENTS:
Sample collected at 11:15 AM
Standard TAT

ANALYSIS REQUESTED	"Hg"	Please fill out completely, sign, date and retain the yellow copy for your record.
	30-10-10	Summa canisters and flow controllers must be returned within 14 days of receipt or rental fee will apply.
	30-10-11	Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.
	30-11-11	Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.
	30-11-10	Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Summa Canister ID	Flow Control ID
1259	3352
1661	3079
1036	3417
1383	3433

Matrix Code:
 SG= SOIL GAS
 IA= INDOOR AIR
 AMP= AMBIENT
 SS= SUB SLAB
 D= DUP
 BL= BLANK
 O= other

Special Requirements:
 Regulations:
 Data Enhancement/RCP? Y N
 Enhanced Data Package Y N
 (Surcharge Applies)
 Required Detection Limits:
 Other:

Turnaround **
 7-Day
 10-Day
 Other
 RUSH*
 24-Hr 48-Hr
 72-Hr 4-Day
 *Approval Required
 Date/Time: 11-16-10 10:09
 Date/Time: 11-16-10
 Date/Time:
 Date/Time:
 Received by: (signature) FEDEX
 Relinquished by: (signature)
 Relinquished by: (signature)
 Received by: (signature)

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.



Español | Customer Support | FedEx Locations

- Package/Envelope
 - Freight
 - Expedited
 - Office/Print Services *
- [Ship](#) ▶
 [Track](#) ▶
 [Manage](#) ▶
 [Business Solutions](#) ▶

Track Associated Shipments

[Printer-Friendly](#)

Associated Shipments

Select time form

Master tracking no.	874182691556	Destination	
Service type	Priority Overnight	Total pieces	2
		Total shipment weight	41.0 lbs/18.6 kg

All Shipments Associated with the Master Tracking Number

Delivered

Tracking no.	Status	Delivery date	Si In
874182691556	Delivered <small>View Signature Proof of Delivery</small>	Nov 17, 2010 10:09 AM	Ye
799525485230	Delivered <small>View Signature Proof of Delivery</small>	Nov 17, 2010 10:09 AM	Ye

View/print Signature Proof of Delivery letter
 E-mail Signature Proof of Delivery letter

Account no.
(Required for [detailed](#) Signature Proof of Delivery)
 Click [here](#) if you have more than one account number for this tracking number.

ATTACHMENT F
DATA USABILITY SUMMARY REPORT

**DATA USABILITY SUMMARY REPORT
NOVEMBER 2010 AIR SAMPLING EVENT
ABB ROCHESTER
ROCHESTER, NEW YORK**

1.0 INTRODUCTION

Four air samples were collected by MACTEC at residences near the former ABB Rochester Site on November 16, 2010 and submitted for off-site laboratory analyses. Samples were analyzed by Con-Test Analytical Laboratory in East Longmeadow, Massachusetts and reported in SDG 10K0616. A listing of samples included in this investigation is presented in Table 1. Samples were analyzed for the following parameters:

- Volatile organic compounds (VOCs) in air by Method TO-15

Based on project specifications, the laboratory reported results for the following target compounds:

Vinyl chloride
cis-1,2-dichloroethene
Trichloroethene
Tetrachloroethene

Deliverables for the off-site laboratory analyses included a Category B deliverable as defined in the New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocols (NYSDEC, 2005).

For samples analyzed by Method TO-15, a project chemist review was completed based on NYSDEC Division of Environmental Remediation guidance for Data Usability Summary Reports (NYSDEC, 2002). Quality control (QC) limits identified in the USEPA Region II guideline (USEPA, 2006) were used during the data evaluation unless noted otherwise. The project chemist review included evaluations of sample collection, data package completeness, holding times, QC data (blanks, instrument calibrations, duplicates, surrogate recovery, and spike recovery), data transcription, electronic data reporting, calculations, and data qualification. The following laboratory or data validation qualifiers are used in the final data presentation.

U = target analyte is not detected above the reported detection limit
J = concentration is estimated

Results are interpreted to be usable as reported by the laboratory unless discussed in the following section. Final samples results are summarized in Table 2.

The laboratory qualified all results with a D to indicate that samples were analyzed at a dilution. The D flags were removed from the final data set.

2.0 AIR SAMPLES - VOLATILE ORGANIC COMPOUNDS

The following data quality reviews were completed:

- sample collection and holding times

- blanks
- instrument calibration
- lab control samples
- surrogate recovery
- internal standard response
- field duplicates
- target compound identification and quantitation

With the exception of items discussed below, results are interpreted to be usable as reported by the laboratory.

Field duplicates

A field duplicate was collected from location IA-08. Trichloroethene was reported in sample IA-08 Dup and not in the original sample IA-08. Tetrachloroethene was reported in sample IA-08 and not in the duplicate IA-08 DUP. In both cases the concentrations detected were at or near the reporting limit, and the differences in results are not interpreted to indicate a significant precision problem with the data set. Results for trichloroethene and tetrachloroethene were qualified estimated (J/UJ) in the final data.

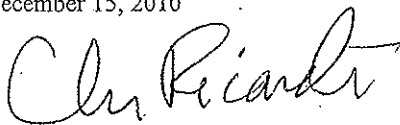
Reference:

New York State Department of Environmental Conservation (NYSDEC), 2005. "Analytical Services Protocols"; July 2005.

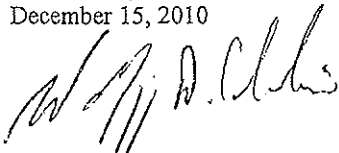
New York State Department of Environmental Conservation (NYSDEC), 2002. "Technical Guidance for Site Investigation and Remediation-Appendix 2B"; Draft DER-10; Division of Environmental Remediation; December 2002.

U.S. Environmental Protection Agency (USEPA), 2006. "Validating Air Samples Volatile Organic Analysis of Ambient Air in Canister by Method TO-15"; USEPA Region II; HW-31; Revision #4; October 2006.

Chris Ricardi, NRCC-EAC
December 15, 2010



Reviewed by: Wolfgang Calicchio
December 15, 2010



**TABLE 1
SAMPLE SUMMARY
DATA USABILITY SUMMARY REPORT
NOVEMBER 2010 AIR SAMPLING EVENT
ABB ROCHESTER
ROCHESTER, NEW YORK**

sample_name	sample_date	lab_sample_id	Sample Type	SDG	Method
AA-06	11/16/2010	10K0616-04	FS	10K0616	TO15
IA-08	11/16/2010	10K0616-02	FS	10K0616	TO15
IA-08 DUP	11/16/2010	10K0616-03	FD	10K0616	TO15
SS-08	11/16/2010	10K0616-01	FS	10K0616	TO15

TABLE 2 - FINAL RESULTS
 DATA USABILITY SUMMARY REPORT
 NOVEMBER 2010 AIR SAMPLING EVENT
 ABB ROCHESTER
 ROCHESTER, NEW YORK

		Location:	SS-08	IA-08	IA-08	AA-06				
		Field ID:	SS-08	IA-08	IA-08 DUP	AA-06				
		Sample ID:	10K0616-01	10K0616-02	10K0616-03	10K0616-04				
		SDG:	10K0616	10K0616	10K0616	10K0616				
		Date:	11/16/10	11/16/10	11/16/10	11/16/10				
		Type:	FS	FS	FD	FS				
			Result	Qual	Result	Qual	Result	Qual	Result	Qual
TO15	Cis-1,2-Dichloroethene	µg/m3	0.4	U	0.14	U	0.14	U	0.14	U
TO15	Tetrachloroethene	µg/m3	1		0.24	J	0.24	UJ	0.24	U
TO15	Trichloroethene	µg/m3	2.9		0.19	UJ	0.21	J	0.88	
TO15	Vinyl chloride	µg/m3	0.26	U	0.09	U	0.09	U	0.09	U

Notes:

U = undetected

J = estimated

FS = field sample

FD = field duplicate